130347

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: NOV 30 1990

SUBJECT: Review of Region 5 data for ALCO

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7465
Sample Numbers: 91FM30S85-87, 91FM30SD85, 91FH03R85
Parameter(s): PESTICIDES / PCB's - WATER
Laboratory: CRL (WESTON / ESAT)

Results Status:

(✓) DATA ACCEPTABLE FOR USE*
( ) DATA QUALIFIED AS TO USE
( ) DATA UNACCEPTABLE FOR USE

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to James Adams the Quality Control Coordinator at 353-9604

ENVIRONMENTAL PROTECTION AGENCY, REGION V

DIVISION: FIT SUPERFUND SAMPLING DATE: 11/5/90 ARRIVAL DATE: 11/6/90 ANALYSIS DUE DATE: 11/27/90

DATA SET #: SF 7465 ACTIVITY #: TFA 302 STUDY: ALCO

REPORTING UNITS ARE: UG/L Sample Type: Water, Sediments, Oil, Sludge, Wipes

Pesticide / Sample #	Y-BHC Lindane	Heptachlor	Aldrin	Heptachlor Epoxide	Endosulfan I	Dieldrin	Endrin	Endosulfan II	pp-DDE	Beta-BHC	Delta-BHC	Alpha-BHC	pp-DDD	pp-DDT	Methoxychlor	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone	alpha-Chlordane	gamma-Chlordane
1. 91FH30S85	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.040 U	0.020 U	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
2. 91FH30S86	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.040 U	0.020 U	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
3. 91FH30S87	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.040 U	0.020 U	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
4. 91FH30D85	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.040 U	~~0.040~~ 0.020 U	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
5. 91FH03R95	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	~~0.040~~ 0.040 U 11/21/90	~~0.040~~ 0.020 U 11/21/90	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
6.																				
7.																				
8.														11/19/90						
9.														Thystyne			Michael			
10.														Evangelista			11/27/90			
11.															CRL					
12.																				

ENVIRONMENTAL PROTECTION AGENCY, REGION

DIVISION: FIT SUPERFUND SAMPLING DATE: 11/5/90 ARRIVAL DATE: 11/6/90 ANALYSIS DUE DATE: 11/27/90

DATA SET #: SF 7465 ACTIVITY #: TFA 302 STUDY: ALCO

REPORTING UNITS ARE: UG/L Sample Type: Water, Sediments, Oil, Sludge, Wipes

#	Sample #	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Toxaphene	T-Chlordane	
1.	91FH30S85	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
2.	91FH30S86	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
3.	91FH30S87	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
4.	91FH30D85	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
5.	91FH03R85	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
6.								
7.								
8.								
9.					Krystyna Michuls			
10.						11/19/90		
11.					L Evangelista 11/27/90			
12.						CRL		
13.								

ESAT CONTRACT TID NO: 05-90-11-12
TASK NO: 3922

DATASET CUSTODY TRANSFER FORM

Analytical testing was completed on 11/16, 1990 for:

DATASET NO: SF 7465 SITE NAME: ALCO

PARAMETER : PESTICIDES/PCB's

MATRIX : WATER SF DU/ACT NO: TFA302 Y____ /C____

SAMPLE NUMBERS: 91FH30S85-87, 91FH30SD85, 91FH03R85

NUMBER OF SAMPLES: 5

ESAT APPROVALS:

Krystyna Hinczuk 11/20/90
(ANALYST DATE)

D Kirk Cromer 11/21/90
~~(TEAM LEADER~~ DATE)

C Sims Bender 11/21/90
(QC COORDINATOR DATE)

[illegible] 11-21-90
(ESAT TEAM MANAGER DATE)

COMMENTS: All corrections made and data set returned on 11/26/90. DKC 11/26/90

The subject dataset was transferred to the custody of the U.S. EPA Region V Central Regional Laboratory in its entirety on the date indicated below.

D Kirk Cromer 11/21/90
(DELIVERED BY DATE)

L. S. Evangelista 11/21/90
(RECEIVED BY DATE)

EPA APPROVALS:

L Evangelista 11/27/90
(EPA TASK MONITOR DATE)

[✓] Reviewed 11/23/90
[ ] Unreviewed
[✓] Accepted 11/27/90
[ ] Rejected
[✓] Returned/ 11/23/90 (Date)

COMMENTS: Please make corrections to the header info; also, please explain why there was no MB extracted on 11/9 w/ the data set. LE

Chi Yang 11/29/90
(SECTION CHIEF DATE)

[ ] Reviewed [✓] Unreviewed

Jay Thakker 11-29-90
(ESAT DPO DATE)

Sylvia Griffin 11/30/90 11/30/90
(DATA COORD'R REC'D TRANSMTD)

DOC.NO.: ESAT-05-0003-FORM
REVISION NO.: 05 (04/05/89) FILE LOCATION NUMBER: 5.6.1

ROY F. WESTON, INC.
C/O ESAT Project
Room 671
536 South Clark Street
Chicago IL 60605
(312)-353-2895

Dataset No: SF7465

Task No: 3922

PESTICIDE/PCB DELIVERABLES CHECK-OFF LIST

PRESENT	NOT REQD	
[X]	[ ]	DATA USERS REPORT
[X]	[ ]	DATASET CUSTODY TRANSFER FORM
[X]	[ ]	SAMPLE REPORT LOG
[X]	[ ]	PESTICIDE RESULTS SUMMARY
[X]	[ ]	PCB RESULTS SUMMARY
[X]	[ ]	NARRATIVE
[X]	[ ]	EXTRACTION/BENCH SHEET
[X]	[ ]	RUN SEQUENCE
[X]	[ ]	SURROGATE RECOVERY
[ ]	[X]	SURROGATE RT %D
[X]	[ ]	PESTICIDE MS/MSD
[X]	[ ]	MS/MSD RAW DATA
[X]	[ ]	PCB MS/MSD
[X]	[ ]	MS/MSD RAW DATA
[ ]	[X]	LINEARITY CHK %RSD
[X]	[ ]	ENDRIN BREAKDOWN
[X]	[ ]	DDT BREAKDOWN
[X]	[ ]	INT. STD. AREAS
[ ]	[X]	METHODS PRINTOUT

PRESENT	NOT REQD		
[X]	[ ]	ENDRIN/DDT BREAKDOWN RAW DATA	
[ ]	[X]	CCV	
[X]	[ ]	METHOD BLANK	
		QUANTITATION COLUMN	
[X]	[ ]	PESTA	~~LOW, MED,~~ HI 5 LEVELS
[X]	[ ]	PESTB	~~LOW, MED,~~ HI 5 LEVELS
[ ]	[X]	1016	MED
[ ]	[X]	1232	MED
[X]	[ ]	1242	~~LOW, MED,~~ HI 5 LEVELS
[ ]	[X]	1248	LOW, MED, HI
[ ]	[ ]	1254	LOW, MED, HI
[ ]	[ ]	1260	LOW, MED, HI
		CONFIRMATION COLUMN	
[X]	[ ]	PESTA	~~LOW, MED,~~ HI 5 LEVELS
[X]	[ ]	PESTB	~~LOW, MED,~~ HI 5 LEVELS
[ ]	[X]	1016	MED
[ ]	[X]	1232	MED
[X]	[ ]	1242	~~LOW, MED, HI~~ 5 LEVELS
[ ]	[X]	1248	LOW, MED, HI
[ ]	[X]	1254	LOW, MED, HI
[ ]	[X]	1260	LOW, MED, HI
[X]	[ ]	SAMPLE RESULTS AND RAW DATA	
[ ]	[X]	SAMPLE TAGS	
[ ]	[X]	ARCHIVE REFERENCE	

APPROVAL

AT DPO DATE IN

Jay Thakker 11·7·90

AT DPO DATE OUT

II

EPA, REGION V
CENTRAL REGIONAL LABORATORY
WESTON/ESAT ANALYSIS

PCB'S/PESTICIDES
ANALYSIS

APPROVAL

ETM DATE OUT

P. Healy 11-7-90

ETM DATE IN

TID # 11-12
START DATE 11/6/90
DUE DATE 11/19/90
EST. HRS. REQUIRED FOR ANALYSIS 71.5

11-12

NO CASE #	DATA SET #	SITE NAME AND CODE	CHEMIST	# OF SAMPLES	DATE ASSIGNED	DATE COMPLETED	TIME SPENT	EST. HRS.	TECHNICAL QUALITY	COMPLIANCE WITH SCHEDULE	TASK NO.
	SF 7464	S. WEST PORTLAND CEMENT		6	11/6/90			39			3921
	SF 7465	ALCO	DKC/KM	5	11/6/90	11/21		82.5			3922

Lost approximately 1 day of instrument time due to an autosampler fault (turret error) that occurred early in the evening after the first 5 samples of the sequence had injected.

PART I
FORMS

A. CRL Data Transmittal Form

B. Sample Analysis Request Sheet

C. Sample Report Forms
   i) Pesticides
   ii) PCBs

D. Data Set Narrative

E. Sample Preparation Bench Sheet

F. GC Run Sequence
   i) Primary
   ii) Secondary

G. Internal Standard Response and Retention Time table
   i) Primary
   ii) Secondary

H. Endrin and DDT Degradation Forms
   i) Primary
   ii) Secondary

I. Initial and Continuing Calibration Forms
   i) Standard Pesticide Mix A
      a) Primary
      b) Secondary
   ii) Standard Pesticide Mix B
      a) Primary
      b) Secondary
   iii) Standard Aroclor 1242
      a) Primary
      b) Secondary
   iv) Standard TCMX
      a) Primary
      b) Secondary

J. Matrix Spike (AQC) Forms
   i) Primary
   ii) Secondary

K. Surrogate Spike Recovery Form (primary and secondary)

51/22

TFA302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: PESTICIDES AND PCB'S

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 11/5/90 LAB ARRIVAL DATE 11/6/90 DUE DATE 11/~~26~~ 27/90

DU NUMBER TFA-~~102~~ DATA SET NUMBER 7465 STUDY AICO PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER TRIHALOMETHANES UG/L PES17414	WATER POLYCHLORINATED BIPHENYLS UG/L PES 17144	WATER CHLORINATED PESTICIDES UG/L PES 17134	WATER HERBICIDES UG/L PES 17424	WATER OIL AND GREASE MG/L PES 17439
91FH30S85	RW 5-042829-28		X	X		
86	MSD/RW2 5-085705-09 5-085715-17		X	X		
87	RW3 5-042836-37		X	X		
D85	DUP 5-042845-46		X	X		
91FH03R85	BLANK 5-042854-5		X	X		

Shipment is ~~not~~ complete.

Date : 11/21/90
To : Linda S. Evangelista, Organic Section Team Leader
From : Kirk Cromer, Weston/ESAT KC 11/21/90
Thru : P. Hershey , ETM

Subject: Pesticide/PCB analysis for data set SF 7465

Five (5) water samples were received in custody on 11/06/90 for pesticide/PCB analysis by CRL Method 608DNS. Sample extraction began on 11/09/90 and was completed on 11/16/90. A total of ten (10) sample extracts, including QC, were analyzed. No major problems were encountered and all sample holding times were met.

GC SYSTEM PERFORMANCE

Both the primary (1.5% SP-2250/1.95% SP-2401) and the confirmatory (3% SP-2100) columns had acceptable performance with respect to endrin and 4,4'-DDT degradation (values for the primary column were less than 9% and values for the confirmatory column were less than 3%).

BLANKS

The method blank and field blank (91FH03R85) both reported no detectable amounts of target compounds.

SURROGATE RECOVERIES

Surrogate (TCMX) recoveries on the primary column ranged from 49.9% to 86.4%. The confirmatory column TCMX recoveries are in generally close agreement with the primary column values for most samples, ranging from 47.4% to 88.7%.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The pesticide and PCB matrix spike/matrix spike duplicate (MS/MSD) samples had acceptable results on the primary column with the exception of endosulfan I and methoxychlor, both of which had extremely high recoveries due to co-eluting interferences. The values from the confirmatory column analyses for these two compounds should be reported. The pesticide/PCB MS/MSD recoveries based on the confirmatory column analyses were all acceptable with the single exception of endrin in the MS sample which was slightly low (62%; acceptable 67-133%). The % RPD values were acceptable for all analytes on both columns except for methoxychlor on the primary column and endrin on the confirmatory column.

INTERNAL STANDARD SUMMARY

All samples and standards used to report quantitative data for this data set have internal standard (mirex) area counts within ±2 standard deviation (SD) units of the mean, with the following exceptions. Sample 91FH30D85 on the primary column had a slightly low mirex area and the method blank and endrin #4 on the confirmatory column had slightly high mirex areas. The area % RSD for the primary (3.23%) and secondary (2.77%) columns were both acceptable.

The mirex retention times on the primary column were within ±2 SD units of the mean except for the PCB MS/MSD samples, Pest A L3 #5 and Pest B L3 #5. The % RSD of 2.54% is acceptable. The confirmatory column had mirex retention times within ±2 SD, with a % RSD of 1.57%, with the exception of PCB 1242 L3 #5 and TCMX #2.

CALIBRATION

All initial calibrations on the primary column met or exceeded CRL requirements with correlation coefficients of 0.99 or better, with the single exception of peak 1242-5 (0.9895) in Aroclor 1242. The confirmatory column had one analyte in Pesticide Mix A with a correlation coefficient of slightly less than 0.99 - 4,4'-DDT (0.9840). All analytes in Pesticide Mix B and Aroclor 1242 on the confirmatory column met or exceeded CRL requirements. Sample data was not affected by these exceptions.

CONTINUING CALIBRATIONS

Three sets of continuing calibrations were run as part of this data set, labeled as #3, #4 and #5 for the Pesticide Mix A, Pesticide Mix B and Aroclor 1242 standards and as #2, #3 and #4 for TCMX.

Primary Column

Pesticide Mix A - All analytes in the continuing calibration samples met CRL QC requirements (%RPD ≤ 15%).

Pesticide Mix B - All analytes in the continuing calibration samples met CRL QC requirements (%RPD ≤ 15%).

Aroclor 1242 - All peaks in the continuing calibration samples met CRL QC requirements (%RPD ≤ 15%), with the exception of peak 1242-5 (19.4%) in the third (PCB 1242 L3 #5) continuing calibration sample (caused by an incorrectly drawn baseline).

TCMX - The continuing calibration samples met CRL QC requirements (%RPD ≤ 15%).

Confirmatory Column

Pesticide Mix A - All analytes in the continuing calibration samples met CRL QC requirements (%RPD $\leq$ 15%).

Pesticide Mix B - All analytes in the continuing calibration samples met CRL QC requirements (%RPD $\leq$ 15%).

Aroclor 1242 - All peaks in the continuing calibration samples met CRL QC requirements (%RPD $\leq$ 15%), with the exception of peak 1242-5 (15.9%) in the first (PCB 1242 L3 #3) continuing calibration sample (caused by an incorrectly drawn baseline).

TCMX - The continuing calibration samples met CRL QC requirements (%RPD $\leq$ 15%).

SAMPLE RESULTS

No target compounds were detected above CRL Method 608DNS detection limits in the samples of this data set (91FH30S85 - 91FH30S87, 91FH30D85).

form
1C

A.K. 11/26/90
DKC 11/26/90

11/7/90

PCB/PEST EXTRACTION

DATA SET(S) SF7465
SAMPLE TYPE(S) Water
EXTRACTION SYSTEM Sep. Fun.
SOLVENT SYSTEM CH_2Cl_2

DATE EXTRACTED: ~~11/9/90~~
DATE CONCENTRATED: 11/16/90
DATE COMPLETED: 11/16/90
VOLUMES USED 60X3

SAMPLE #	SAMPLE AMOUNT	CONC. EXTRACT	DILUTIONS 1ST	2ND	3RD	FINAL VOL	INSTDS MRX/OTHER	
91FH30S85	1025	10 ml						6.0
91FH30S86 pest-MS	1030	10 ml						6.0
91FH30S86 pest-MSD	1025	10 ml						5.5
91FH30S86 PCB-MS	1030	10 ml						5.5
91FH30S86 PCB-MSD	1025	10 ml						5.5
91FH30S86	1025	10 ml						5.5
91FH30S87	880	10 ml						6.0
91FH30D85	1035	10 ml						5.5
91FH03R85	1L	10 ml						5.5
Method blank prepared with SF7464								

#	PREPARATION DATE	VOLUME
MATRIX SPIKE SOLUTION: Pest		1 ml
MATRIX SPIKE SOLUTION: PCB		1 ml
SURROGATES:		1 ml

PREP. CHEMIST Anthony Komsky ANALYST Unsplyne Mimms

Individual who witness by spiking

Initial Calibration

PRIMARY COLUMN

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	NO INJECTION			1.0000	1.0000	1.00	1.000
2	HEXANE-1	W:2PESTA	W:2IC	1.0000	1.0000	1.00	1.000
3	ENDRIN-1	W:2ENDBD	W:2IC	1.0000	1.0000	1.00	1.000
4	DDT-1	W:2DDTBD	W:2IC	1.0000	1.0000	1.00	1.000
5	TCMX 0.009 UG/ML	W:2TCMX	W:2IC	1.0000	1.0000	1.00	1.000
6	PEST A L1	W:2PESTA	W:2IC	1.0000	1.0000	1.00	1.000
7	PEST A L2	W:2PESTA	W:2IC	1.0000	1.0000	1.00	1.000
8	PEST A L3	W:2PESTA	W:2IC	1.0000	1.0000	1.00	1.000
9	PEST A L4	W:2PESTA	W:2IC	1.0000	1.0000	1.00	1.000
10	PEST A L5	W:2PESTA	W:2IC	1.0000	1.0000	1.00	1.000
11	PEST B L1	W:2PESTB	W:2IC	1.0000	1.0000	1.00	1.000
12	PEST B L2	W:2PESTB	W:2IC	1.0000	1.0000	1.00	1.000
13	PEST B L3	W:2PESTB	W:2IC	1.0000	1.0000	1.00	1.000
14	PEST B L4	W:2PESTB	W:2IC	1.0000	1.0000	1.00	1.000
15	PEST B L5	W:2PESTB	W:2IC	1.0000	1.0000	1.00	1.000
16	PCB1242 L1	W:2PCB1242	W:2IC	1.0000	1.0000	1.00	1.000
17	PCB1242 L2	W:2PCB1242	W:2IC	1.0000	1.0000	1.00	1.000
18	PCB1242 L3	W:2PCB1242	W:2IC	1.0000	1.0000	1.00	1.000
19	PCB1242 L4	W:2PCB1242	W:2IC	1.0000	1.0000	1.00	1.000
20	PCB1242 L5	W:2PCB1242	W:2IC	1.0000	1.0000	1.00	1.000

Data Set SF 7465

PRIMARY COLUMN

SEQUENCE RECORDED IN U:2ALCO.SEQ

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	NO INJECTION	U:2PESTA	U:2ALCO	1.0000	1.0000	1.00	1.000
2	HEXANE #3	U:2PESTA	U:2ALCO	1.0000	1.0000	1.00	1.000
3	ENDRIN #3	U:2ENDBD	U:2ALCO	1.0000	1.0000	1.00	1.000
4	DDT #3	U:2DDTBD	U:2ALCO	1.0000	1.0000	1.00	1.000
5	PEST B L3 #3	U:2PESTB	U:2ALCO	1.0000	1.0000	1.00	1.000
6	RESTART SEQUENCE - A	U:2PESTA	U:2ALCO	1.0000	1.0000	1.00	1.000
7	PEST A L3 #3	U:2PESTA	U:2ALCO	1.0000	1.0000	1.00	1.000
8	PCB 1242 L3 #3	U:2_1242	U:2ALCO	1.0000	1.0000	1.00	1.000
9	TCMX #2	U:2TCMX	U:2ALCO	1.0000	1.0000	1.00	1.000
10	SF 7465 MB	U:2PESTA	U:2ALCO	1.0000	1.0000	10.00	1.000
11	91FH03R85 SF 7465	U:2PESTA	U:2ALCO	1.0000	1.0000	10.00	1.000
12	91FH30S85 SF 7465	U:2PESTA	U:2ALCO	1.0000	1.0000	10.00	1.025
13	91FH30D85 SF 7465	U:2PESTA	U:2ALCO	1.0000	1.0000	10.00	1.035
14	91FH30S87 SF 7465	U:2PESTA	U:2ALCO	1.0000	1.0000	10.00	0.880
15	PEST A L3 #4	U:2PESTA	U:2ALCO	1.0000	1.0000	1.00	1.000
16	PEST B L3 #4	U:2PESTB	U:2ALCO	1.0000	1.0000	1.00	1.000
17	PCB 1242 L3 #4	U:2_1242	U:2ALCO	1.0000	1.0000	1.00	1.000
18	TCMX #3	U:2TCMX	U:2ALCO	1.0000	1.0000	1.00	1.000
19	91FH30S86 SF 7465	U:2PESTA	U:2ALCO	1.0000	1.0000	10.00	1.030
20	91FH30S86 PEST MS SF	U:2PESTA	U:2ALCO	1.0000	1.0000	10.00	1.025
21	91FH30S86 PEST MSD S	U:2PESTA	U:2ALCO	1.0000	1.0000	10.00	1.030
22	91FH30S86 PCB MS SF	U:2_1242	U:2ALCO	1.0000	1.0000	10.00	1.025
23	91FH30S86 PCB MSD SF	U:2PCB1242	U:2ALCO	1.0000	1.0000	10.00	1.025
24	PEST A L3 #5	U:2PESTA	U:2ALCO	1.0000	1.0000	1.00	1.000
25	PEST B L3 #5	U:2PESTB	U:2ALCO	1.0000	1.0000	1.00	1.000
26	PCB 1242 L3 #5	U:2_1242	U:2ALCO	1.0000	1.0000	1.00	1.000
27	TCMX #4	U:2TCMX	U:2ALCO	1.0000	1.0000	1.00	1.000
28	ENDRIN #4	U:2ENDBD	U:2ALCO	1.0000	1.0000	1.00	1.000
29	DDT #4	U:2DDTBD	U:2ALCO	1.0000	1.0000	1.00	1.000

Initial Calibration

SECONDARY COLUMN

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	HEXANE-1	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
2	ENDRIN-1	W:1ENDBD	W:1IC	1.0000	1.0000	1.00	1.000
3	DDT-1	W:1DDTBD	W:1IC	1.0000	1.0000	1.00	1.000
4	TCMX 0.009 UG/ML	W:1TCMX	W:1IC	1.0000	1.0000	1.00	1.000
5	PEST A L1	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
6	PEST A L2	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
7	PEST A L3	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
8	PEST A L4	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
9	PEST A L5	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
10	PEST B L1	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
11	PEST B L2	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
12	PEST B L3	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
13	PEST B L4	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
14	PEST B L5	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
15	PCB1242 L1	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000
16	PCB1242 L2	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000
17	PCB1242 L3	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000
18	PCB1242 L4	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000
19	PCB1242 L5	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000

Data Set SF 7465 SECONDARY COLUMN

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	HEXANE #3	U:1PESTA	U:1ALCO	1.0000	1.0000	1.00	1.000
2	ENDRIN #3	U:1ENDBD	U:1ALCO	1.0000	1.0000	1.00	1.000
3	DDT #3	U:1DDTBD	U:1ALCO	1.0000	1.0000	1.00	1.000
4	PEST B L3 #3	U:1PESTB	U:1ALCO	1.0000	1.0000	1.00	1.000
5	RESTART SEQUENCE - A	U:1PESTA	U:1ALCO	1.0000	1.0000	1.00	1.000
6	PEST A L3 #3	U:1PESTA	U:1ALCO	1.0000	1.0000	1.00	1.000
7	PCB 1242 L3 #3	U:1PCB1242	U:1ALCO	1.0000	1.0000	1.00	1.000
8	TCMX #2	U:1TCMX	U:1ALCO	1.0000	1.0000	1.00	1.000
9	SF 7465 MB	U:1PESTA	U:1ALCO	1.0000	1.0000	10.00	1.000
10	91FH03R85 SF 7465	U:1PESTA	U:1ALCO	1.0000	1.0000	10.00	1.000
11	91FH30S85 SF 7465	U:1PESTA	U:1ALCO	1.0000	1.0000	10.00	1.025
12	91FH30D85 SF 7465	U:1PESTA	U:1ALCO	1.0000	1.0000	10.00	1.035
13	91FH30S87 SF 7465	U:1PESTA	U:1ALCO	1.0000	1.0000	10.00	0.880
14	PEST A L3 #4	U:1PESTA	U:1ALCO	1.0000	1.0000	1.00	1.000
15	PEST B L3 #4	U:1PESTB	U:1ALCO	1.0000	1.0000	1.00	1.000
16	PCB 1242 L3 #4	U:1PCB1242	U:1ALCO	1.0000	1.0000	1.00	1.000
17	TCMX #3	U:1TCMX	U:1ALCO	1.0000	1.0000	1.00	1.000
18	91FH30S86 SF 7465	U:1PESTA	U:1ALCO	1.0000	1.0000	10.00	1.030
19	91FH30S86 PEST MS SF	U:1PESTA	U:1ALCO	1.0000	1.0000	10.00	1.025
20	91FH30S86 PEST MSD S	U:1PESTA	U:1ALCO	1.0000	1.0000	10.00	1.030
21	91FH30S86 PCB MS SF	U:1PCB1242	U:1ALCO	1.0000	1.0000	10.00	1.025
22	91FH30S86 PCB MSD SF	U:1PCB1242	U:1ALCO	1.0000	1.0000	10.00	1.025
23	PEST A L3 #5	U:1PESTA	U:1ALCO	1.0000	1.0000	1.00	1.000
24	PEST B L3 #5	U:1PESTB	U:1ALCO	1.0000	1.0000	1.00	1.000
25	PCB 1242 L3 #5	U:1PCB1242	U:1ALCO	1.0000	1.0000	1.00	1.000
26	TCMX #4	U:1TCMX	U:1ALCO	1.0000	1.0000	1.00	1.000
27	ENDRIN #4	U:1ENDBD	U:1ALCO	1.0000	1.0000	1.00	1.000
28	DDT #4	U:1DDTBD	U:1ALCO	1.0000	1.0000	1.00	1.000

INTERNAL STANDARD SUMMARY

DATASET: SF 7465 DATE: 11/20/90

PRIMARY COLUMN

SAMPLE ID	FILE NAME	AREA	MIREX RT
NO INJECTION			
HEXANE-1	2IC2	2454880	24.70
ENDRIN-1	2IC3	2583281	24.68
DDT-1	2IC4	2491013	24.68
TCMX 0.009 UG/ML	2IC5	2547209	24.70
PEST A L1	2IC6	2535227	24.72
PEST A L2	2IC7	2662262	24.73
PEST A L3	2IC8	2636536	24.73
PEST A L4	2IC9	2637778	24.73
PEST A L5	2IC10	2638655	24.75
PEST B L1	2IC11	2646272	24.75
PEST B L2	2IC12	2632596	24.78
PEST B L3	2IC13	2506965	24.78
PEST B L4	2IC14	2664770	24.78
PEST B L5	2IC15	2687175	24.78
PCB 1242 L1	2IC16	2587225	24.78
PCB 1242 L2	2IC17	2595135	24.78
PCB 1242 L3	2IC18	2621233	24.80
PCB 1242 L4	2IC19	2596505	24.80
PCB 1242 L5	2IC20	2622571	24.78
HEXANE #3	2ALC02	2514603	24.85
ENDRIN #3	2ALC03	2460314	24.83
DDT #3	2ALC04	2508378	24.85
PEST B L3 #3	2ALC05	2555869	24.85
PEST A L3 #3	2ALC07	2597965	25.02
PCB 1242 L3 #3	2ALC08	2558638	24.95
TCMX #2	2ALC09	2421951	24.88
SF 7465 MB	2ALC010	2575833	24.82
91FH03R85 SF 7465	2ALC011	2493958	24.77
91FH30S85 SF 7465	2ALC012	2476407	24.70
91FH30D85 SF 7465	2ALC013	2396999	24.67
91FH30S87 SF 7465	2ALC014	2473523	24.62
PEST A L3 #4	2ALC015	2499525	24.58
PEST B L3 #4	2ALC016	2583336	24.60
PCB 1242 L3 #4	2ALC017	2671975	24.62
TCMX #3	2ALC018	2494740	24.65
91FH30S86 SF 7465	2ALC019	2587648	24.68
91FH30S86 PEST MS SF 7465	2ALC020	2607777	25.78
91FH30S86 PEST MSD SF 7465	2ALC021	2634529	26.15
91FH30S86 PCB MS SF 7465	2ALC022	2734552	26.49
91FH30S86 PCB MSD SF 7465	2ALC023	2708067	26.55
PEST A L3 #5	2ALC024	2665555	26.67
PEST B L3 #5	2ALC025	2719100	26.77
PCB 1242 L3 #5	2ALC026	2544066	25.52
TCMX #4	2ALC027	2662959	26.14
ENDRIN #4	2ALC028	2720665	25.95
DDT #4	2ALC029	2622243	25.99

CONFIRMATORY COLUMN

SAMPLE ID	FILE NAME	AREA	MIREX RT
HEXANE-1	1IC1	3398641	23.20
ENDRIN-1	1IC2	3490501	22.83
DDT-1	1IC3	3310267	22.71
TCMX 0.009 UG/ML	1IC4	3390661	22.66
PEST A L1	1IC5	3396016	22.66
PEST A L2	1IC6	3573109	22.73
PEST A L3	1IC7	3556930	22.78
PEST A L4	1IC8	3584912	22.85
PEST A L5	1IC9	3622938	22.85
PEST B L1	1IC10	3571451	22.86
PEST B L2	1IC11	3541094	22.90
PEST B L3	1IC12	3362064	22.96
PEST B L4	1IC13	3545080	22.98
PEST B L5	1IC14	3570021	23.05
PCB 1242 L1	1IC15	3568221	23.01
PCB 1242 L2	1IC16	3575292	22.98
PCB 1242 L3	1IC17	3598292	22.95
PCB 1242 L4	1IC18	3447362	22.96
PCB 1242 L5	1IC19	3511164	23.01
HEXANE #3	1ALC01	3479052	22.88
ENDRIN #3	1ALC02	3416260	23.11
DDT #3	1ALC03	3458045	23.08
PEST B L3 #3	1ALC04	3630779	23.16
PEST A L3 #3	1ALC05	3452216	23.20
PCB 1242 L3 #3	1ALC07	3678800	24.25
TCMX #2	1ALC08	3486871	24.01
SF 7465 MB	1ALC09	3722077	23.78
91FH03R85 SF 7465	1ALC010	3579147	23.55
91FH30S85 SF 7465	1ALC011	3508738	23.36
91FH30D85 SF 7465	1ALC012	3416472	23.13
91FH30S87 SF 7465	1ALC013	3508536	22.98
PEST A L3 #4	1ALC014	3490569	22.86
PEST B L3 #4	1ALC015	3530565	22.58
PCB 1242 L3 #4	1ALC016	3374182	22.49
TCMX #3	1ALC017	3350416	22.60
91FH30S86 SF 7465	1ALC018	3570669	22.71
91FH30S86 PEST MS SF 7465	1ALC019	3374457	22.81
91FH30S86 PEST MSD SF 7465	1ALC020	3382734	22.95
91FH30S86 PCB MS SF 7465	1ALC021	3492765	22.98
91FH30S86 PCB MSD SF 7465	1ALC022	3488594	23.06
PEST A L3 #5	1ALC023	3384765	23.16
PEST B L3 #5	1ALC024	3416782	23.26
PCB 1242 L3 #5	1ALC025	3522329	23.30
TCMX #4	1ALC026	3539202	23.41
ENDRIN #4	1ALC027	3710437	23.50
DDT #4	1ALC028	3565482	23.60

INTERNAL STANDARD SUMMARY

DATASET: SF 7465 DATE: 11/20/90

PRIMARY COLUMN SAMPLE ID	FILE NAME	AREA	MIREX RT	CONFIRMATORY COLUMN SAMPLE ID	FILE NAME	AREA	MIREX RT
	SD(N-1)	83515	0.64		SD(N-1)	96999	0.36
	SD(N)	82602	0.63		SD(N)	95939	0.36
	MEAN	2583445	25.07		MEAN	3503151	23.06
	MIN	2396999	24.58		MIN	3310267	22.49
	MAX	2734552	26.77		MAX	3722077	24.25
	COUNT	46	46		COUNT	46	46
	2*SD(N-1)	167030	1.27		2*SD(N-1)	193998	0.72
	HIGH	2750474	26.34		HIGH	3697149	23.78
	LOW	2416415	23.80		LOW	3309153	22.34
	%RSD(N-1)	3.23	2.54		%RSD(N-1)	2.77	1.57

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

ENDRIN AND DDT DEGRADATION

DATA SET: SF 7465 DATA SET NAME: ALCO

DATE: 11/20/90 COLUMN TYPE: MIXED PHASE GC # 2

$$\text{PERCENT ENDRIN DEGRADATION} = \frac{\text{AREA OF END ALD + END KETONE}}{\text{AREA OF END ALD + END KET + ENDRIN}} \times 100$$

CALIBRATION	DATE ANALYZED	FILE NAME	AREA OF END ALD	AREA OF END KET	AREA OF ENDRIN	% DEG
INITIAL	11-06-90	2IC3	225314	147932	4188428	8.2
CONTINUING	11-12-90	2ALCO3	194245	152493	4441713	7.2
CONTINUING	11-14-90	2ALCO28	183120	97864	5450595	4.9

$$\text{PERCENT DDT DEGRADATION} = \frac{\text{AREA OF DDE + DDD}}{\text{AREA OF DDE + DDD + DDT}} \times 100$$

CALIBRATION	DATE ANALYZED	FILE NAME	AREA OF DDE	AREA OF DDD	AREA OF DDT	% DEG
INITIAL	11-06-90	2IC4	140280	81641	6507927	3.3
CONTINUING	11-12-90	2ALCO4	103556	56262	6748021	2.3
CONTINUING	11-14-90	2ALCO29	61915	69744	7300999	1.8

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

ENDRIN AND DDT DEGRADATION

DATA SET: SF 7465 DATA SET NAME: ALCO

DATE: 11/20/90 COLUMN TYPE: SINGLE PHASE GC # 2

$$\text{PERCENT ENDRIN DEGRADATION} = \frac{\text{AREA OF END ALD + END KETONE}}{\text{AREA OF END ALD + END KET + ENDRIN}}$$

CALIBRATION	DATE ANALYZED	FILE NAME	AREA OF END ALD	AREA OF END KET	AREA OF ENDRIN	% DEG
INITIAL	11-06-90	1IC2	0	80283	8258930	1.0
CONTINUING	11-12-90	1ALCO2	0	168802	8627995	1.9
CONTINUING	11-14-90	1ALCO27	0	63645	9346217	0.7

$$\text{PERCENT DDT DEGRADATION} = \frac{\text{AREA OF DDE + DDD}}{\text{AREA OF DDE + DDD + DDT}} \times 100$$

CALIBRATION	DATE ANALYZED	FILE NAME	AREA OF DDE	AREA OF DDD	AREA OF DDT	% DEG
INITIAL	11-06-90	1IC3	147145	30977	8050866	2.2
CONTINUING	11-12-90	1ALCO3	144097	117297	8660694	2.9
CONTINUING	11-14-90	1ALCO28	83223	107740	9328401	2.0

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7465 DATE: 11/16/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, MIXED PHASE VERSION #: 127, 129, 131

STANDARD NAME: PESTICIDE MIX A (LEVEL 3)

COMPOUND	FILENAME 2IC8 INITIAL AREA	FILENAME 2ALC07 CONTINUING AREA-3	RPD	FILENAME 2ALC015 CONTINUING AREA-4	RPD	FILENAME 2ALC024 CONTINUING AREA-5	RPD
ALPHA-BHC	490334	516035	5.1	524166	6.7	530280	7.8
LINDANE	383498	407956	6.2	400430	4.3	409409	6.5
HEPTACHLOR	429263	455722	6.0	439983	2.5	448116	4.3
ALDRIN	724958	757609	4.4	739939	2.0	763406	5.2
HEPTACHLOR EPOXIDE	961223	1012107	5.2	994158	3.4	1032342	7.1
ENDOSULFAN I	1059119	1119073	5.5	1084740	2.4	1117237	5.3
DIELDRIN	1098392	1128787	2.7	1104432	0.5	1150800	4.7
ENDRIN	1148956	1153005	0.4	1288322	11.4	1234260	7.2
ENDOSULFAN II	2395280	2552839	6.4	2375155	0.8	2424267	1.2
4,4'-DDT	1997234	2077048	3.9	1946636	2.6	2001792	0.2
METHOXYCHLOR	1519203	1607541	5.7	1662062	9.0	1706741	11.6

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7465 DATE: 11/16/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, SINGLE PHASE VERSION #: 168

STANDARD NAME: PESTICIDE MIX A (LEVEL 3)

COMPOUND	FILENAME 1IC7	FILENAME 1ALC05		FILENAME 1ALC014		FILENAME 1ALC023	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
ALPHA-BHC	589905	622383	5.4	644648	8.9	636240	7.6
LINDANE	444389	465442	4.6	482535	8.2	476285	6.9
HEPTACHLOR	533881	567903	6.2	566668	6.0	552050	3.3
ALDRIN	810282	856610	5.6	878870	8.1	863698	6.4
HEPTACHLOR EPOXIDE	1139754	1196795	4.9	1228405	7.5	1207155	5.7
ENDOSULFAN I	1208964	1276280	5.4	1320293	8.8	1292315	6.7
DIELDRIN	1196388	1257153	5.0	1282695	7.0	1252938	4.6
ENDRIN + ENDOSULFAN II	4518563	4762910	5.3	5097874	12.0	4983359	9.8
4,4'-DDT	2088594	2219609	6.1	2313913	10.2	2302571	9.7
METHOXYCHLOR	1934310	2023259	4.5	2111149	8.7	2073390	6.9

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7465 DATE: 11/16/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, MIXED PHASE VERSION #: 211, 213, 214

STANDARD NAME: PESTICIDE MIX B (LEVEL 3)

COMPOUND	FILENAME 21C13	FILENAME 2ALC05		FILENAME 2ALC016		FILENAME 2ALC025	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
BETA-BHC	603166	619281	2.6	627755	4.0	682657	12.4
DELTA-BHC	745848	770205	3.2	818081	9.2	822342	9.8
GAMMA-CHLORDANE	1003637	1088582	8.1	1076262	7.0	1149566	13.6
ALPHA-CHLORDANE	1074290	1131283	5.2	1108572	3.1	1182374	9.6
4,4'-DDE	927353	1000482	7.6	982782	5.8	1012277	8.8
4,4'-DDD	1475567	1471618	0.3	1500175	1.7	1555360	5.3
ENDRIN ALDEHYDE	1516785	1600164	5.4	1581143	4.2	1664814	9.3
ENDOSULFAN SULFATE	2680214	2769402	3.3	2843107	5.9	2994275	11.1
ENDRIN KETONE	3152973	3240878	2.7	3271338	3.7	3439586	8.7

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7465 DATE: 11/16/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, SINGLE PHASE VERSION #: 170

STANDARD NAME: PESTICIDE MIX B (LEVEL 3)

COMPOUND	FILENAME 1IC12	FILENAME 1ALC04		FILENAME 1ALC015		FILENAME 1ALC024	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
BETA-BHC	774996	817242	5.3	806043	3.9	805961	3.9
DELTA-BHC	828411	877965	5.8	932750	11.8	923286	10.8
GAMMA-CHLORDANE	1259189	1328815	5.4	1336669	6.0	1319610	4.7
ALPHA-CHLORDANE	1319294	1399426	5.9	1405200	6.3	1386863	5.0
4,4'-DDE	1060327	1117993	5.3	1137840	7.1	1124711	5.9
4,4'-DDD + ENDRIN ALDEHYDE	3593007	3807816	5.8	3857699	7.1	3827278	6.3
ENDOSULFAN SULFATE	2748404	2882955	4.8	3075622	11.2	3057084	10.6
ENDRIN KETONE	3521356	3755894	6.4	3853253	9.0	3898951	10.2

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7465 DATE: 11/16/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, MIXED PHASE VERSION #: 192, 194, 197

STANDARD NAME: AROCLOR 1242 (LEVEL 3)

COMPOUND	FILENAME 2IC18 INITIAL AREA	FILENAME 2ALC08 CONTINUING AREA-3	RPD	FILENAME 2ALC017 CONTINUING AREA-4	RPD	FILENAME 2ALC026 CONTINUING AREA-5	RPD
1242-1	378129	398123	5.2	388690	2.8	404030	6.6
1242-2	693271	739758	6.5	698659	0.8	753055	8.3
1242-3	1229331	1280187	4.1	1251901	1.8	1287209	4.6
1242-4	575456	614345	6.5	597555	3.8	635016	9.8
1242-5	920000	1063107	14.4	954808	3.7	1117292	19.4

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7465 DATE: 11/16/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, SINGLE PHASE VERSION #: 182

STANDARD NAME: AROCLOR 1242 (LEVEL 3)

COMPOUND	FILENAME 1IC17	FILENAME 1ALC07		FILENAME 1ALC016		FILENAME 1ALC025	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
1242-1	552723	633558	13.6	563427	1.9	575878	4.1
1242-2	907038	1040462	13.7	923658	1.8	972232	6.9
1242-3	598701	664992	10.5	613186	2.4	589830	1.5
1242-4	1831914	2090224	13.2	1875416	2.3	1985243	8.0
1242-5	1362164	1596902	15.9	1408165	3.3	1454630	6.6

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7465 DATE: 11/16/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, MIXED PHASE VERSION #: 92, 93, 94

STANDARD NAME: TCMX 0.009 UG/ML

COMPOUND	FILENAME 2IC5	FILENAME 2ALC09		FILENAME 2ALC018		FILENAME 2ALC027	
	INITIAL AREA	CONTINUING AREA-2	RPD	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD
TCMX	862696	853283	1.1	803999	7.0	881618	2.2

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7465 DATE: 11/16/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, SINGLE PHASE VERSION #: 135,136

STANDARD NAME: TCMX 0.009 UG/ML

COMPOUND	FILENAME 1IC4	FILENAME 1ALC08		FILENAME 1ALC017		FILENAME 1ALC026	
	INITIAL AREA	CONTINUING AREA-2	RPD	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD
TCMX	1137026	1213905	6.5	1107952	2.6	1149658	1.1

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CENTRAL REGIONAL LABORATORY, REGION V
AQC
PACKED COLUMN, MIXED PHASE

DATASET: SF 7465 DATE: 11/20/90
SAMPLE: 91FH30S86

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKE RESULT	SPIKE DUP RESULT	% RPD	SPIKE %REC.	SPIKE DUP %REC
LINDANE	0.000	0.060	0.047	0.044	7.1	78	73
HEPTACHLOR	0.000	0.060	0.035	0.036	2.8	58	60
ALDRIN	0.000	0.100	0.068	0.074	7.8	68	73
ENDOSULFAN I	0.000	0.120	0.276	0.273	1.1	** 230	** 228
DIELDRIN	0.000	0.120	0.106	0.111	5.0	88	93
ENDRIN	0.000	0.220	0.208	0.209	0.8	94	95
4,4'-DDT	0.000	0.300	0.274	0.246	10.7	91	82
METHOXYCHLOR	0.000	0.350	1.612	0.970	49.8	* 461	* 277
AROCLOR 1242	0.00	3.00	3.02	3.55	16.0	101	118

* Larger recoveries are due to a phthalate co-eluting with the methoxychlor.
** Larger recoveries are due to a co-eluting interference.

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CENTRAL REGIONAL LABORATORY, REGION V
AQC
PACKED COLUMN, SINGLE PHASE

DATASET: SF 7465
SAMPLE: 91FH30S86

DATE: 11/20/90

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKE RESULT	SPIKE DUP RESULT	% RPD	SPIKE %REC.	SPIKE DUP %REC
LINDANE	0.000	0.060	0.055	0.054	0.6	91	90
HEPTACHLOR	0.000	0.060	0.045	0.057	24.3	75	96
ALDRIN	0.000	0.100	0.090	0.097	7.4	90	97
ENDOSULFAN I	0.000	0.120	0.093	0.118	23.0	78	98
DIELDRIN	0.000	0.120	0.095	0.112	16.4	79	93
ENDRIN + ENDOSULFAN II	0.000	0.220	0.137	0.181	27.7	62	82
4,4'-DDT	0.000	0.300	0.294	0.321	8.9	98	107
METHOXYCHLOR	0.000	0.350	0.334	0.319	4.7	95	91
AROCLOR 1242	0.00	3.00	2.41	2.88	17.9	80	96

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

TCMX SURROGATE RECOVERY

DATA SET NO.: SF 7465 DATE: 11/20/90

SAMPLE NAME	AMOUNT ADDED	QUANTITATION COLUMN AMOUNT FOUND	QUANTITATION COLUMN PERCENT RECOVERY	CONFIRMATION COLUMN AMOUNT FOUND	CONFIRMATION COLUMN PERCENT RECOVERY
SF 7465 METHOD BLANK	0.090	0.045	49.9	0.043	47.4
SF 7465 91FH03R85	0.090	0.061	68.0	0.060	66.2
SF 7465 91FH30S85	0.090	0.077	85.7	0.077	85.0
SF 7465 91FH30D85	0.090	0.057	63.0	0.054	60.3
SF 7465 91FH30S87	0.090	0.078	86.4	0.074	82.2
SF 7465 91FH30S86	0.090	0.076	84.2	0.073	80.9
SF 7465 91FH30S86 PEST MS	0.090	0.062	69.0	0.065	72.4
SF 7465 91FH30S86 PEST MSD	0.090	0.070	77.8	0.065	72.0
SF 7465 91FH30S86 PCB MS	0.090	0.059	65.2	0.074	81.9
SF 7465 91FH30S86 PCB MSD	0.090	0.066	73.6	0.080	88.7

PART II

Endrin & DDT Degradation Reports & Chromatograms

A. Primary
B. Secondary

2

PRIMARY COLUMN

Output redirected to LPT1:

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 13:52:04 Version 4.1 **********

* Sample Name: ENDRIN-1 Data File: W:2IC3 *
* Date: 11-06-1990 16:42:16 Method: W:2ENDBD 11-07-1990 13:51:39 # 36 *
* Interface: 0 Cycle#: 3 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

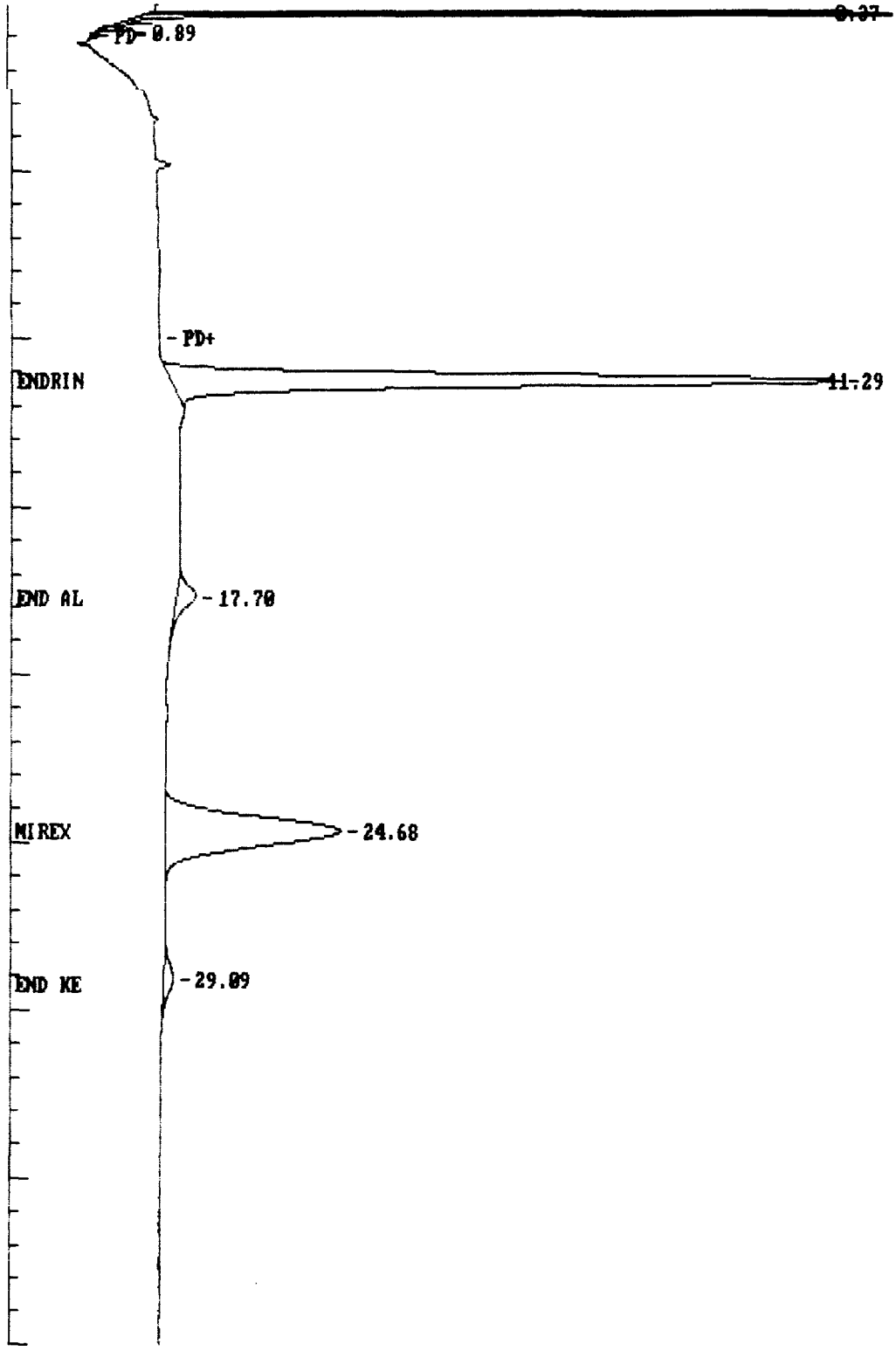
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	11.29	ENDRIN	1.6214	91.8178%	4188428	164577	25.4	1	6	6	.1750	3.8710E-07
5	17.70	END ALDEHYDE	0.0872	4.9393%	225314	4680	48.1	1	6	6	-.1638	3.8710E-07
6	24.68	MIREX	1.0000	0.0000%	2583281	43207	59.8	1	6	6	0	3.8710E-07
7	29.09	END KETONE	0.0573	3.2429%	147932	2334	63.4	1	6	6	-.4922	3.8710E-07

TOTAL AMOUNT = 1.7658

DKC
11/26/90

PRIMARY COLUMN

Data File = W:2IC3.PTS Printed on 11-07-1990 at 13:52:18
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



NEW TIMED EVENTS FROM U:2ENDBD

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 11:11:53 Version 4.1 **********

* Sample Name: ENDRIN # 3 Data File: U:2ALC03 *
* Date: 11-12-1990 13:33:47 Method: U:2ENDBD 11-12-1990 11:10:55 # 37 *
* Interface: 0 Cycle#: 3 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

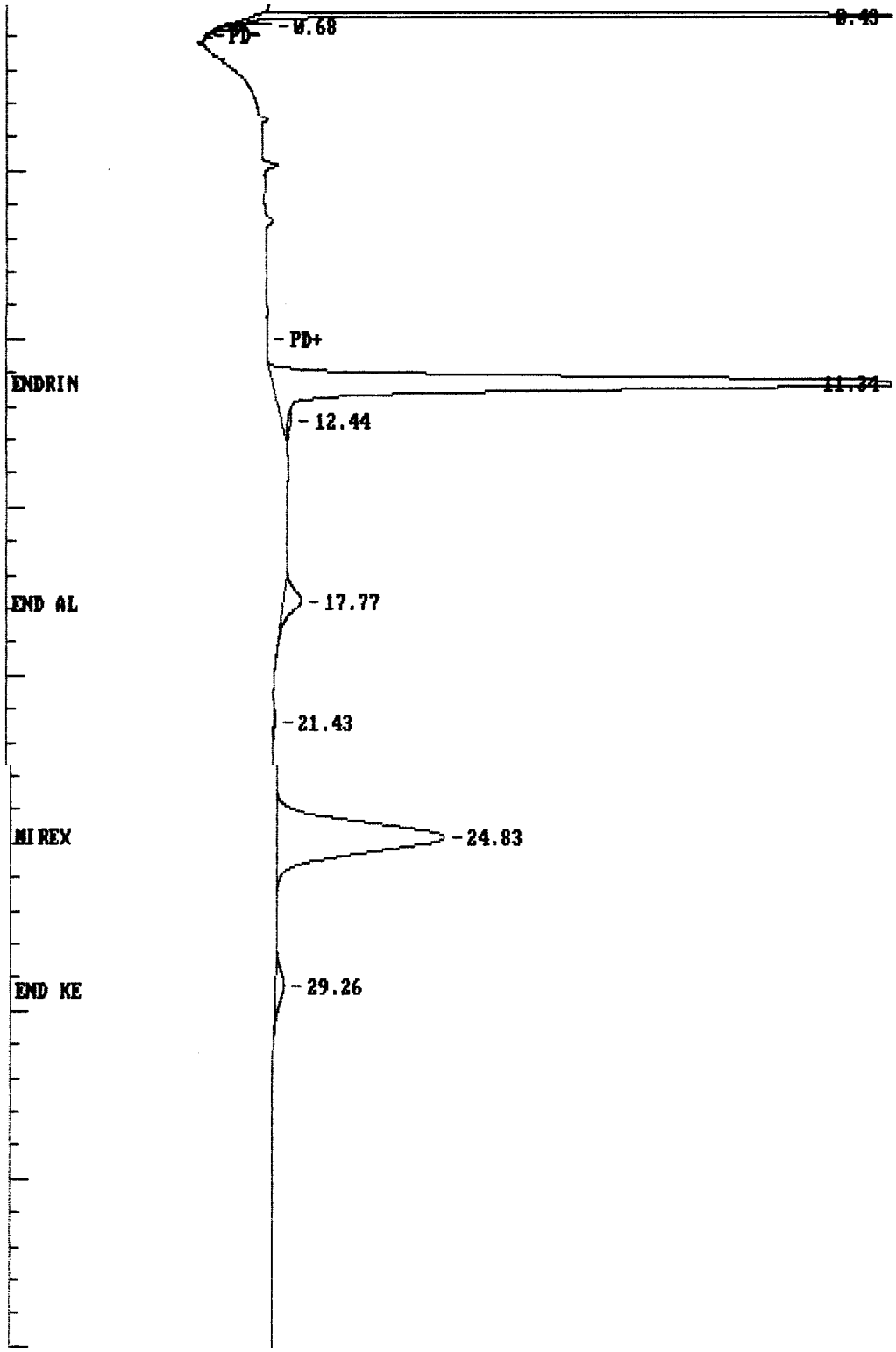
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	11.34	ENDRIN	1.8053	92.7589%	4441713	168385	26.4	3	8	8	0	4.0645E-07
6	17.77	END ALDEHYDE	0.0790	4.0565%	194245	4218	46.0	1	8	8	-.3936	4.0645E-07
8	24.83	MIREX	1.0000	0.0000%	2460314	41090	59.9	1	8	8	0	4.0645E-07
9	29.26	END KETONE	0.0620	3.1846%	152493	2112	72.2	1	8	8	-.5267	4.0645E-07

TOTAL AMOUNT = 1.9463

DKC
11/26/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2ENDBD
Data File = U:2ALC03.PTS Printed on 11-16-1990 at 11:09:32
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



NEW TIMED EVENTS FROM U:2ENDBD1

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-19-1990 10:31:32 Version 4.1 **********

* Sample Name: ENDRIN # 4 Data File: U:2ALC028 *
* Date: 11-14-1990 07:09:27 Method: U:2ENDBD1 11-19-1990 10:30:42 # 38 *
* Interface: 0 Cycle#: 28 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~CONF Detector 1: ECD ~~PRIM~~ QUANT *
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CB~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

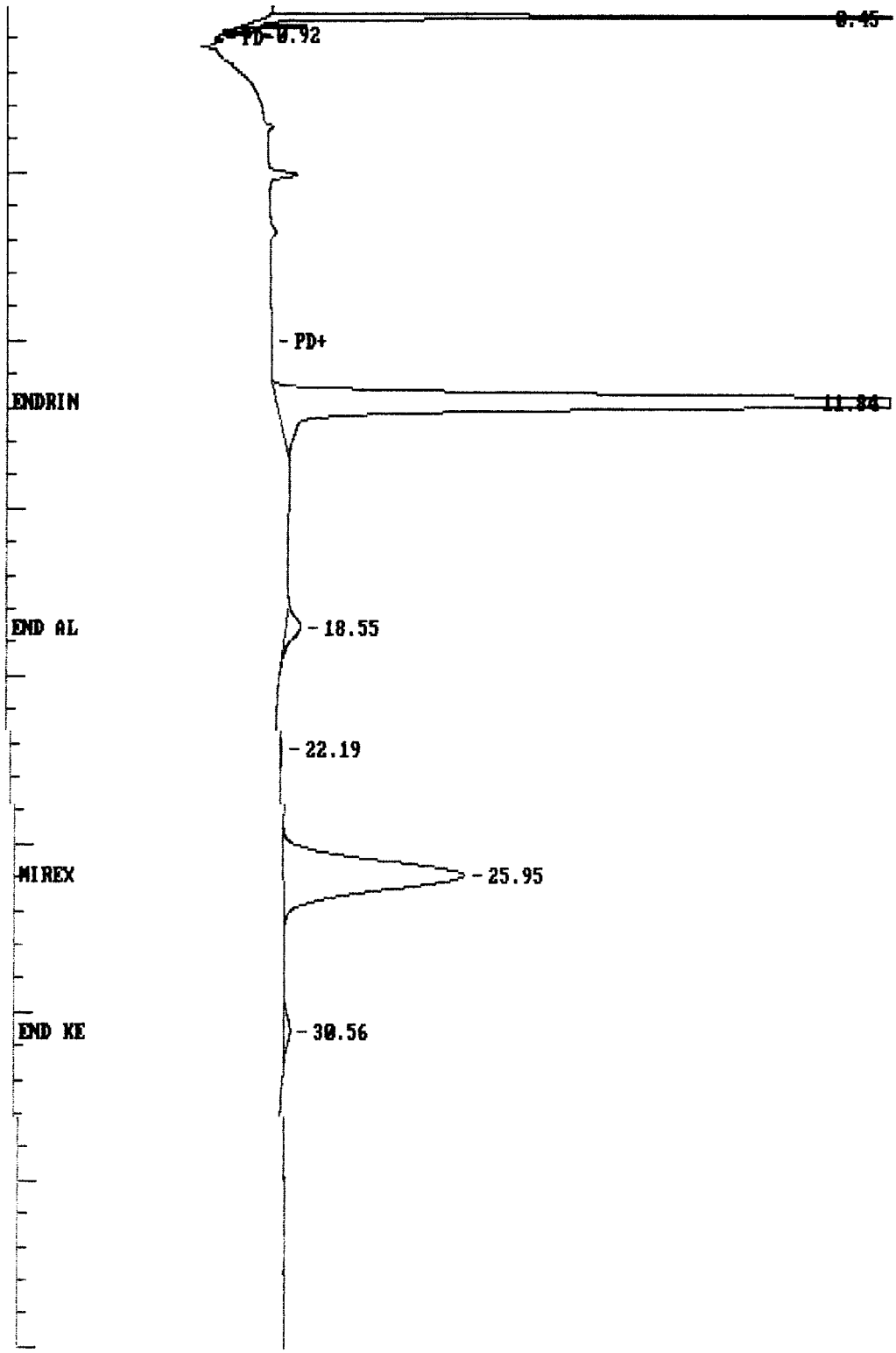
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	11.84	ENDRIN	2.0034	95.0976%	5450595	204193	26.7	1	6	6	.3345	3.6756E-07
4	18.55	END ALDEHYDE	0.0673	3.1949%	183120	3725	49.2	1	6	6	0	3.6756E-07
6	25.95	MIREX	1.0000	0.0000%	2720665	44530	61.1	1	6	6	0	3.6756E-07
7	30.56	END KETONE	0.0360	1.7075%	97864	1588	61.6	1	6	6	0	3.6756E-07

TOTAL AMOUNT = 2.1067

DKC 11/26/90

PRIMARY COLUMN

Data File = U:2ALC028.PTS Printed on 11-19-1990 at 10:32:10
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PRIMARY COLUMN

Output redirected to LPT1:

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 13:55:39 Version 4.1 **********

* Sample Name: DDT-1 Data File: W:2IC4 *

* Date: 11-06-1990 17:26:24 Method: W:2DDTBD 11-07-1990 13:55:09 # 29 *

* Interface: 0 Cycle#: 4 Operator SKF Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

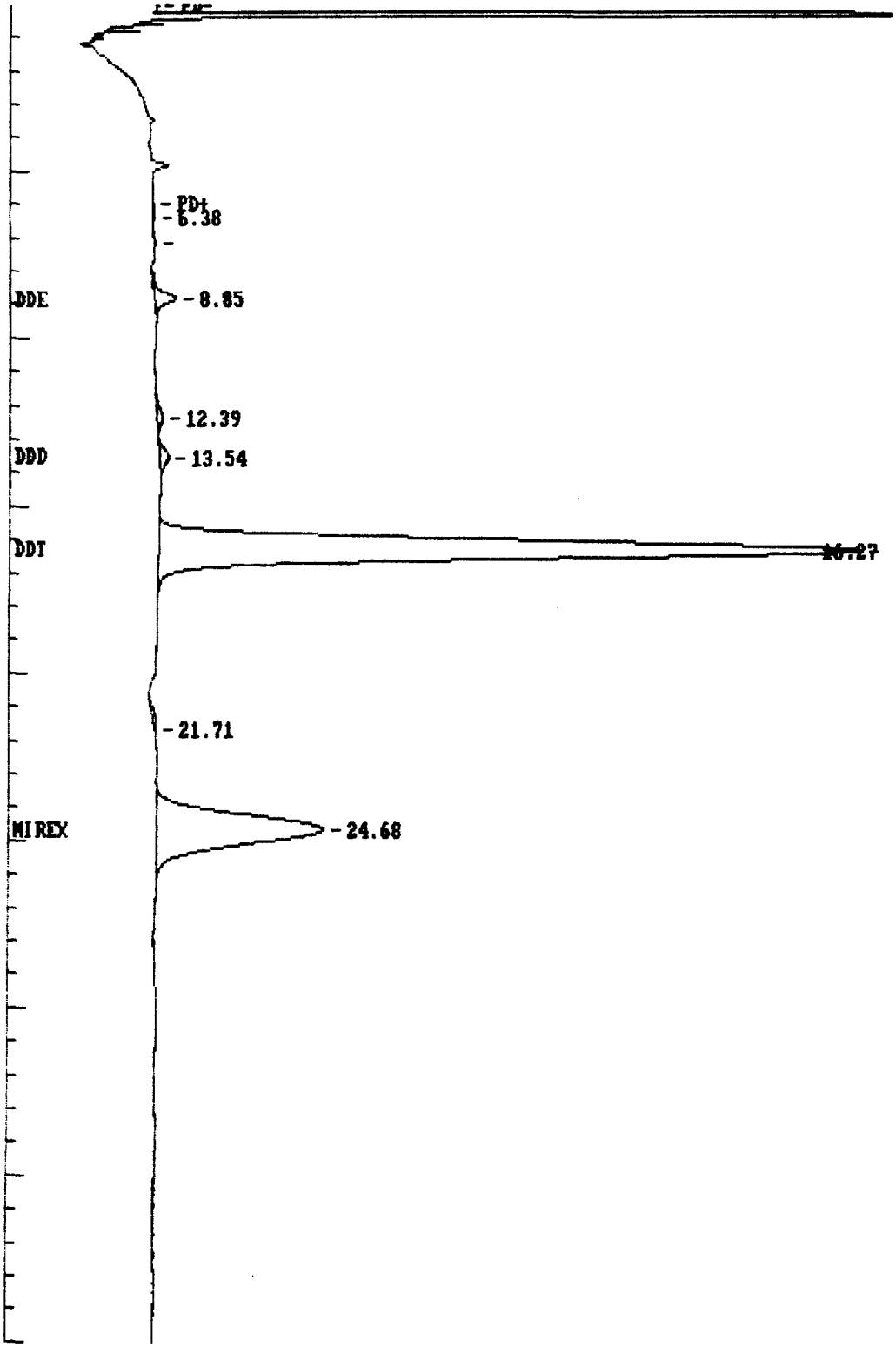
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	8.85	DDE	0.0563	2.0844%	140280	5473	25.6	1	8	8	.2401	4.0144E-07
5	13.54	DDD	0.0328	1.2131%	81641	2367	34.5	2	8	8	.4384	4.0144E-07
6	16.27	DDT	2.6126	96.7024%	6507927	173212	37.6	1	8	8	0	4.0144E-07
8	24.68	MIREX	1.0000	0.0000%	2491013	41462	60.1	1	8	8	0	4.0144E-07

TOTAL AMOUNT = 2.7017

DKC
11/26/90

PRIMARY COLUMN

Data File = W:2IC4.PTS Printed on 11-07-1990 at 13:55:52
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2DDTBD

```
***** INTERNAL STANDARD TABLE *****
******************** 11-16-1990 12:04:29 Version 4.1 ********************
* Sample Name: DDT # 3                          Data File: U:2ALC04      *
* Date: 11-12-1990 14:17:55 Method: U:2DDTBD 11-12-1990 11:12:06  #  30   *
* Interface: 0   Cycle#:  4    Operator DKC Channel#: 1    Vial#: N.A.   *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS      *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN           *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                  *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: PRIMARY COLUMN                  ~~CONFIRMATORY CO~~  *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:   40.00
Area reject:        0                        One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

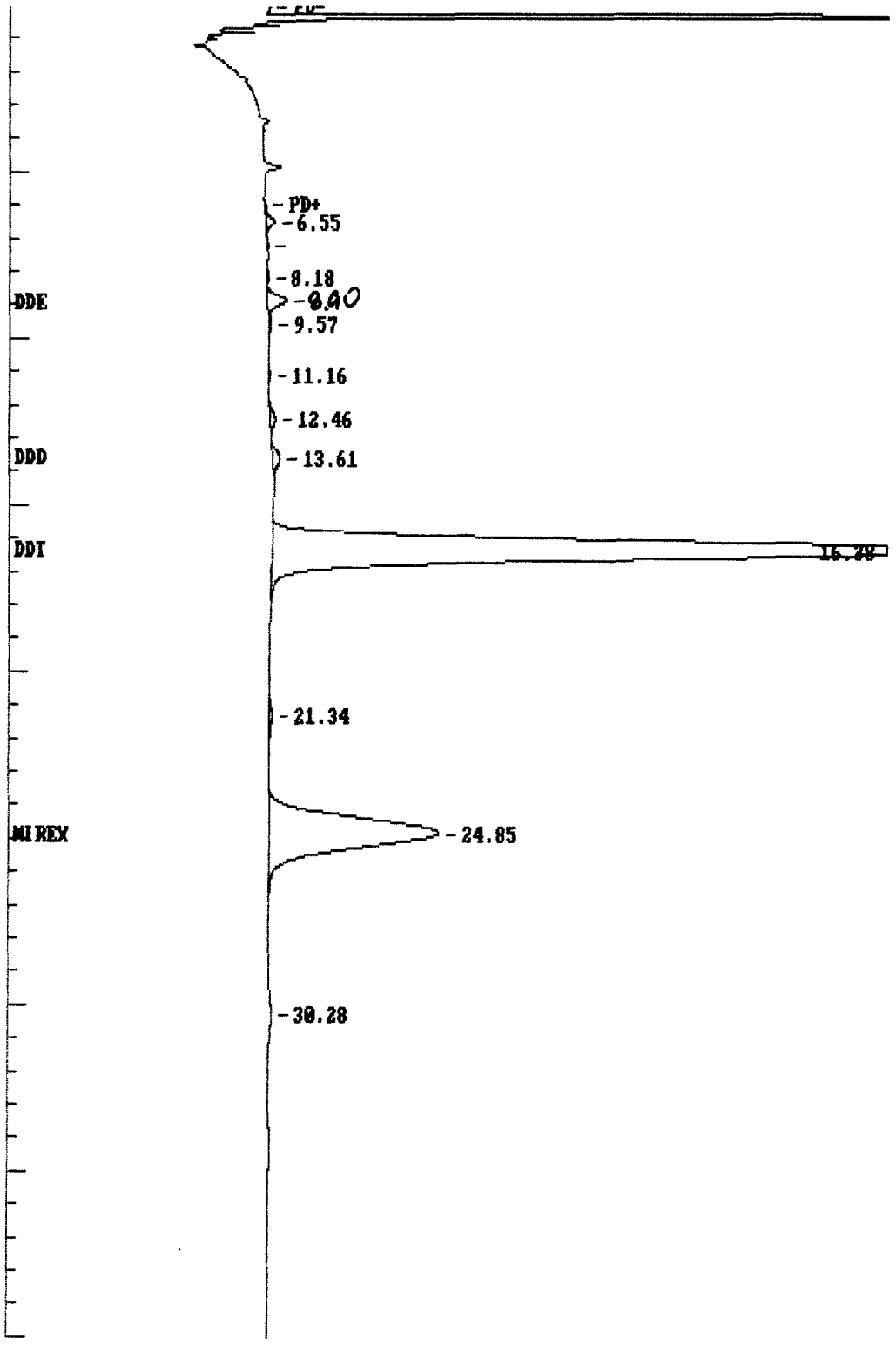
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	8.90	DDE	0.0413	1.4991%	103556	4585	22.6	3	11	11	.1300	3.9866E-07
8	13.61	DDD	0.0224	0.8145%	56262	1855	30.3	1	11	11	.2555	3.9866E-07
9	16.38	DDT	2.6902	97.6864%	6748021	178650	37.8	1	11	11	.1334	3.9866E-07
11	24.85	MIREX	1.0000	0.0000%	2508378	41817	60.0	1	11	11	0	3.9866E-07

TOTAL AMOUNT = 2.7539

DKC
11/26/90

PRIMARY COLUMN

Data File = U:2ALC04.PTS Printed on 11-16-1990 at 12:05:18
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

PRIMARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-16-1990 13:50:26 Version 4.1 **********************
* Sample Name: DDT #4                          Data File: U:2ALC029      *
* Date: 11-14-1990 07:11:22 Method: U:2DDTBD 11-12-1990 11:12:06  #  30  *
* Interface: 0   Cycle#:  29   Operator DKC Channel#: 1    Vial#: N.A.   *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100           *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS     *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                 *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~PRIM~~ QUANT *
* Misc. Information: PRIMARY COLUMN                    PRIMARY COLUMN   *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:        0                      One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

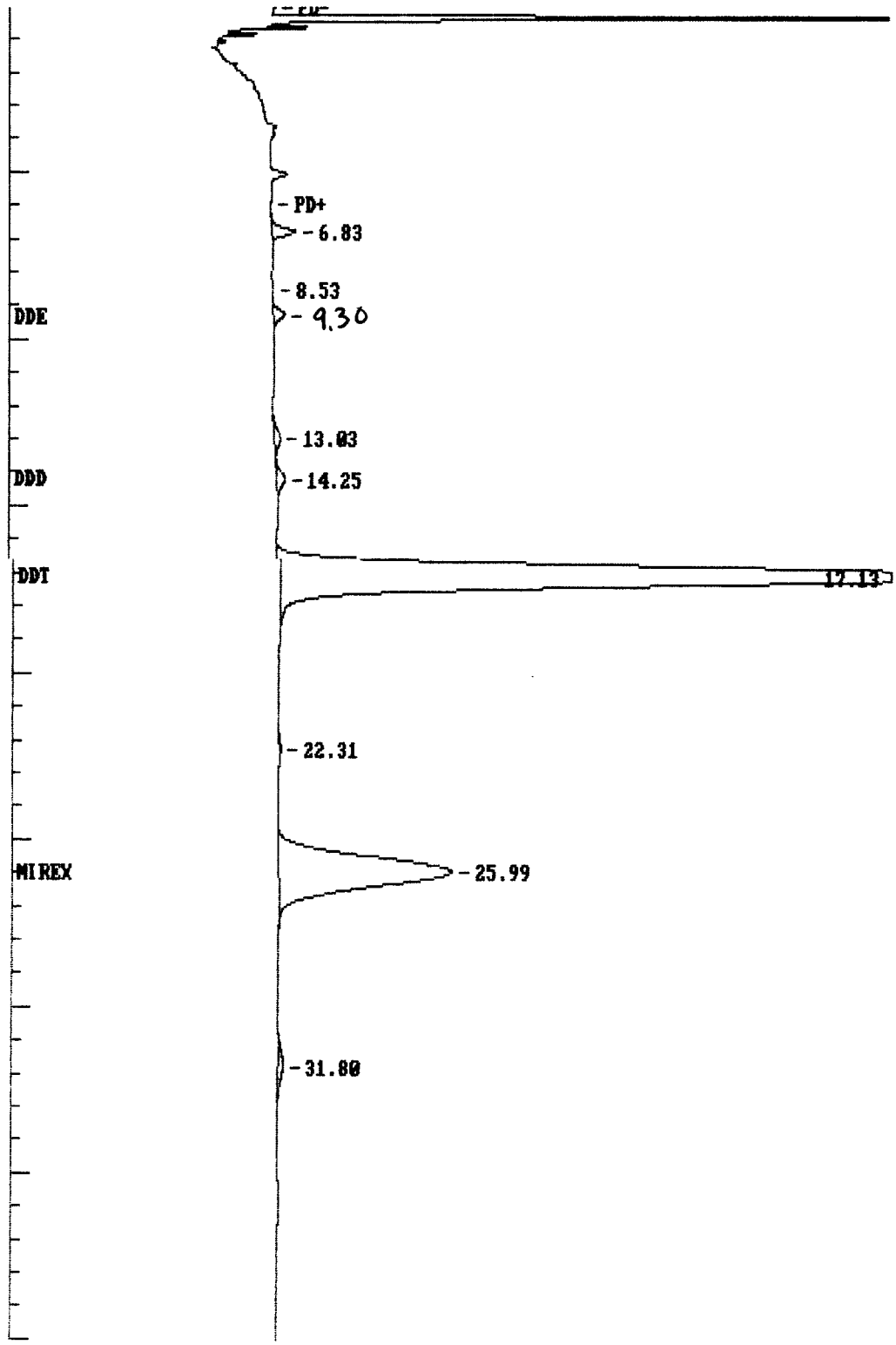
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	9.30	DDE	0.0236	0.8330%	61915	2875	21.5	1	8	8	0	3.8135E-07
5	14.25	DDD	0.0266	0.9383%	69744	2038	34.2	2	8	8	.3443	3.8135E-07
6	17.13	DDT	2.7843	98.2286%	7300999	190683	38.3	1	8	8	.1500	3.8135E-07
8	25.99	MIREX	1.0000	0.0000%	2622243	42969	61.0	1	8	8	0	3.8135E-07

TOTAL AMOUNT = 2.8345

DKC
11/26/90

PRIMARY COLUMN

Data File = U:2ALC029.PTS Printed on 11-16-1990 at 13:51:06
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/20/90

SECONDARY COLUMN

Output redirected to LPT1:
SEQUENCE RECORDED IN W:1IC.SEQ
Output redirected to LPT1:
ENDRIN-1 Processed: 11-06-1990 15:58:07, segment 2, cycle 2
RAW DATA SAVED IN FILE W:1IC2.PTS Second Channel Stored in W:2IC2.PTS

****** INTERNAL STANDARD TABLE ******

```
******************** 11-06-1990 15:58:16 Version 4.1 **********************
* Sample Name: ENDRIN-1                          Data File: W:1IC2         *
* Date: 11-06-1990 15:58:12 Method: W:1ENDBD  11-02-1990 09:22:01  #  32  *
* Interface: 0   Cycle#:  2    Operator SKF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:        *   *
*************************************************************************
```

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/L~~ 3/5/90	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	8.48	ENDRIN	2.3661	99.0373%	8258930	281444	29.3	3	4	4	-3.559	2.8649E-07
3	14.09	END KETONE	0.0230	0.9627%	80283	2219	36.2	1	4	4	-3.529	2.8649E-07
4	22.83	MIREX	1.0000	0.0000%	3490501	53269	65.5	1	4	4	0	2.8649E-07

TOTAL AMOUNT = 2.3891

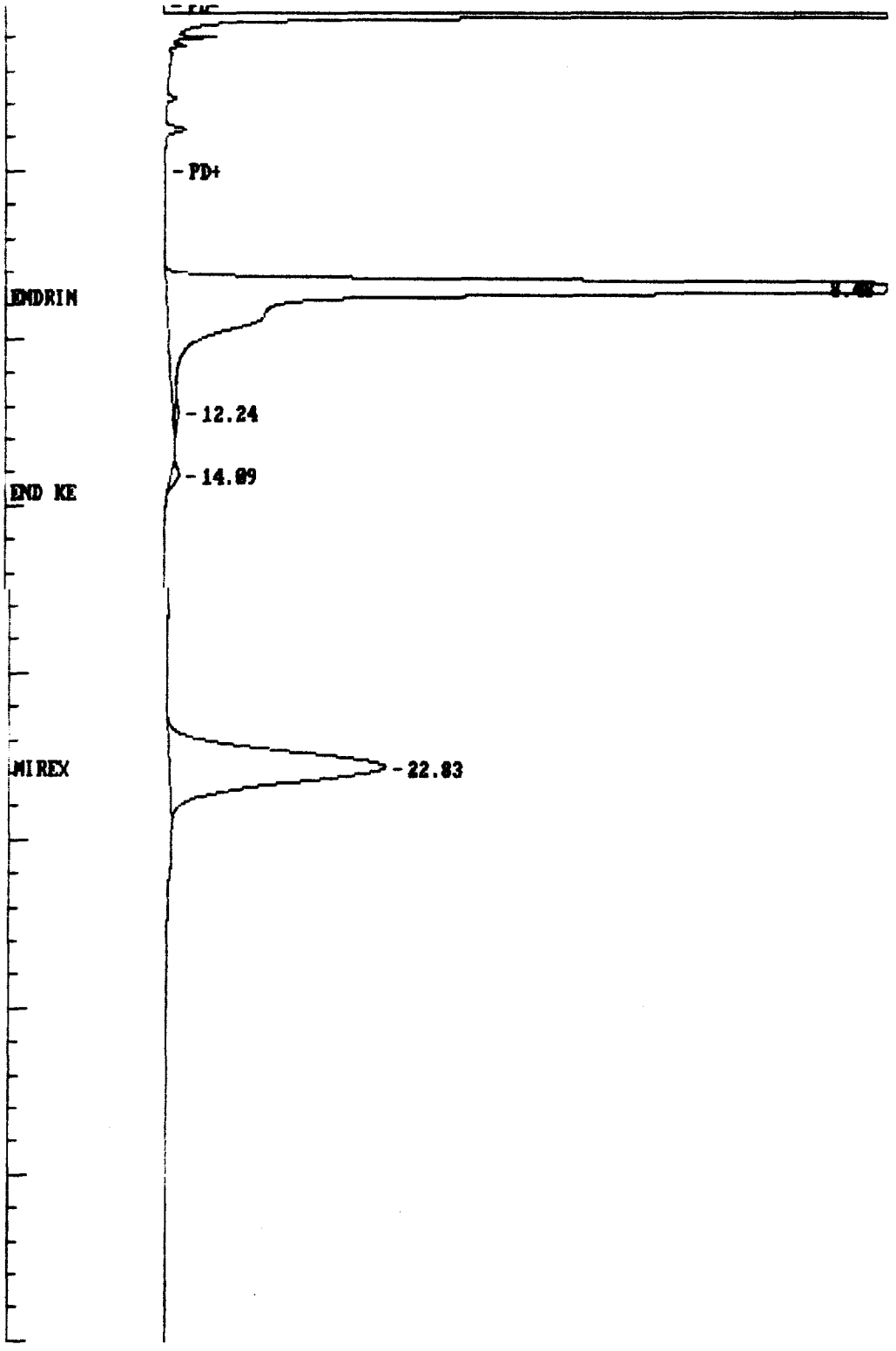
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
END ALDEHYDE	9.03	MIREX

DKC 11/26/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC2.ATB
Data File = W:1IC2.PTS Printed on 11-06-1990 at 15:58:31
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

Output redirected to LPT1:
ENDRIN #3 Processed: 11-12-1990 12:49:37, segment 2, cycle 2
RAW DATA SAVED IN FILE U:1ALCO2.PTS Second Channel Stored in U:2ALCO2.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-12-1990 12:49:46 Version 4.1 **********
* Sample Name: ENDRIN #3 Data File: U:1ALCO2 *
* Date: 11-12-1990 12:49:42 Method: U:1ENDBD 11-12-1990 11:09:00 # 33 *
* Interface: 0 Cycle#: 2 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	8.57	ENDRIN	2.5256	98.0811%	8627995	284058	30.4	3	4	4	-3.806	2.9272E-07
3	14.25	END KETONE	0.0494	1.9189%	168802	3528	47.8	4	4	4	-3.698	2.9272E-07
4	23.11	MIREX	1.0000	0.0000%	3416260	51815	65.9	1	4	4	0	2.9272E-07

TOTAL AMOUNT = 2.5750

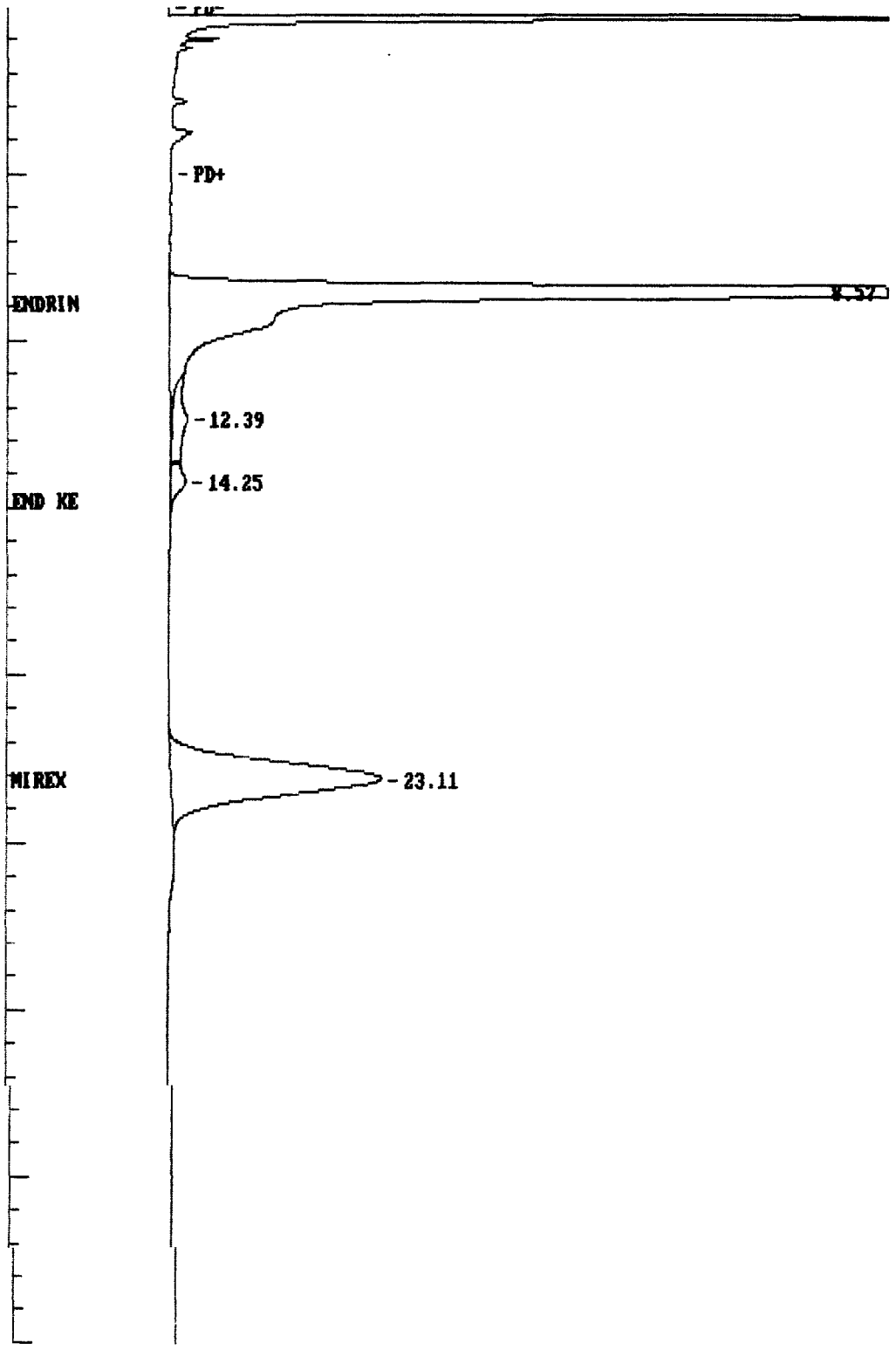
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
END ALDEHYDE	9.14	MIREX

DKC
11/26/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALCO2.ATB
Data File = U:1ALCO2.PTS Printed on 11-12-1990 at 12:50:02
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-19-1990 10:54:02 Version 4.1 **********

* Sample Name: ENDRIN #4 Data File: U:1ALC027 *
* Date: 11-14-1990 07:07:33 Method: U:1ENDBD 11-12-1990 11:09:00 # 33 *
* Interface: 0 Cycle#: 27 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	8.72	ENDRIN	2.5189	99.3236%	9346217	322355	29.0	3	4	4	-3.719	2.6951E-07
3	14.46	END KETONE	0.0172	0.6764%	63645	1751	36.3	1	4	4	-3.829	2.6951E-07
4	23.50	MIREX	1.0000	0.0000%	3710437	54724	67.8	3	4	4	0	2.6951E-07

TOTAL AMOUNT = 2.5361

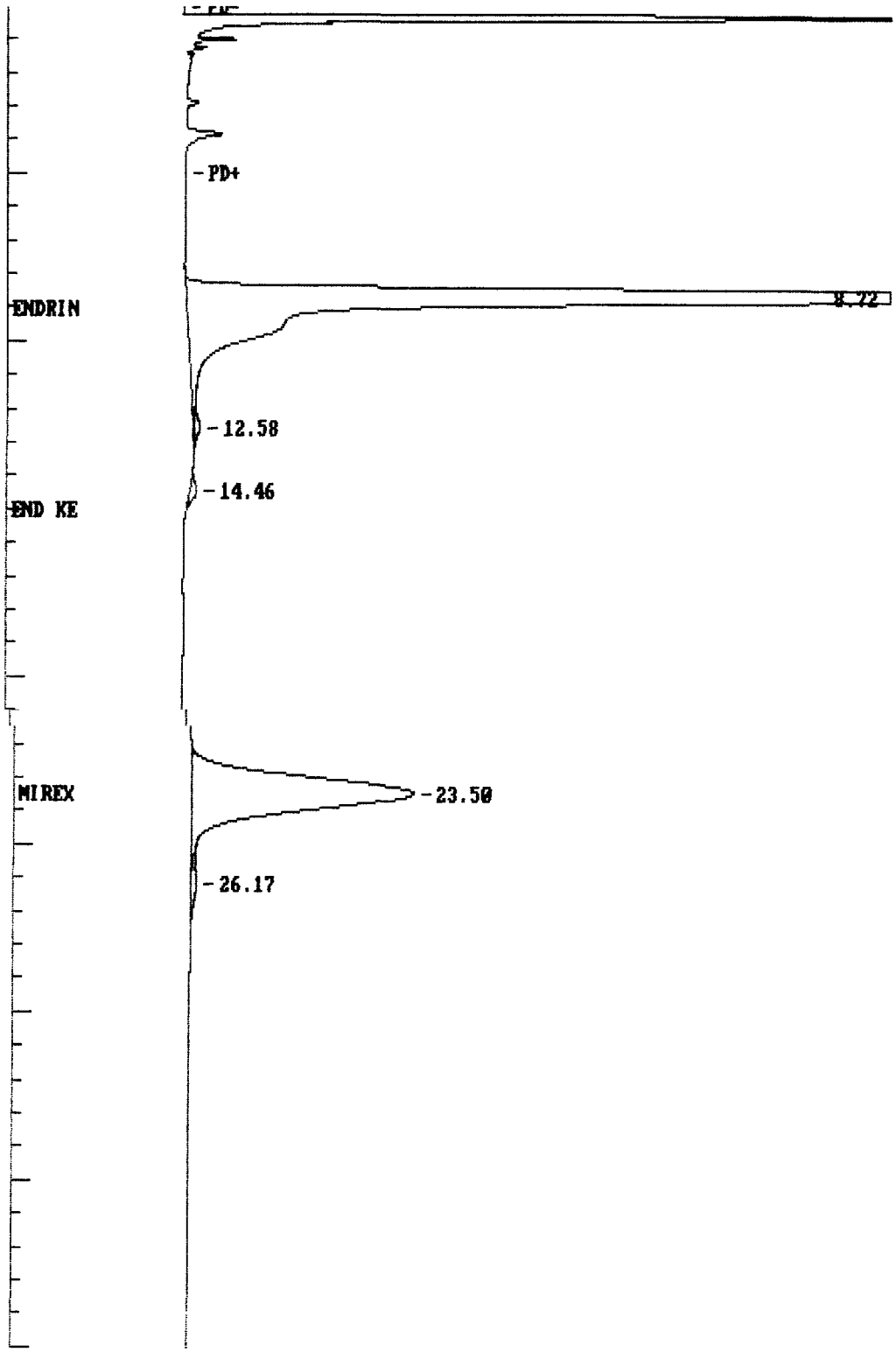
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
END ALDEHYDE	9.29	MIREX

DKC
11/26/90

SECONDARY COLUMN

Data File = U:1ALC027.PTS Printed on 11-19-1990 at 10:54:28
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

Output redirected to LPT1:
DDT-1 Processed: 11-06-1990 16:42:14, segment 3, cycle 3
RAW DATA SAVED IN FILE W:1IC3.PTS Second Channel Stored in W:2IC3.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-06-1990 16:42:21 Version 4.1 **********
* Sample Name: DDT-1 Data File: W:1IC3 *
* Date: 11-06-1990 16:42:17 Method: W:1DDTBD 10-30-1990 13:13:47 # 20 *
* Interface: 0 Cycle#: 3 Operator SKF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

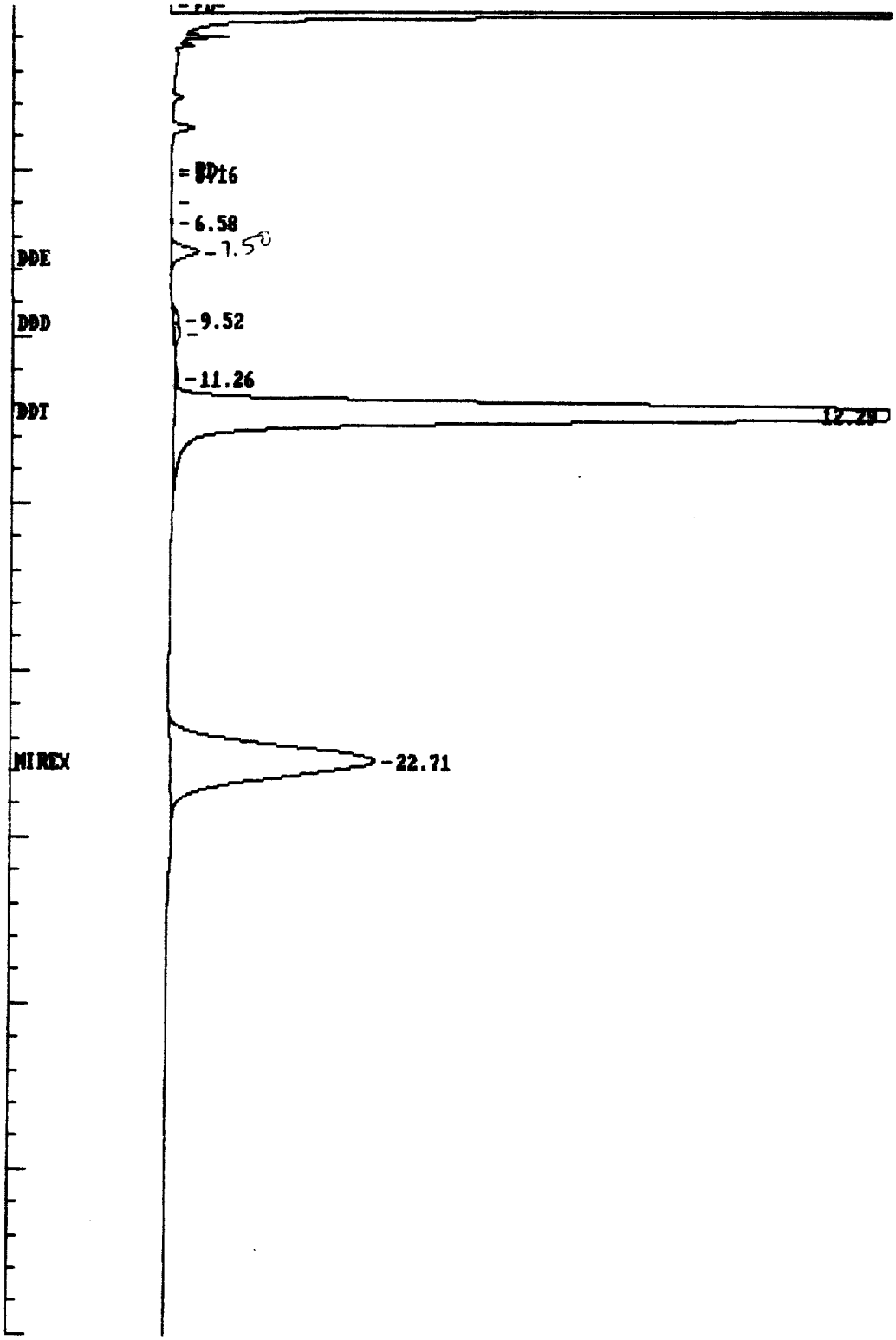
Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	7.50	DDE	0.0445	1.7881%	147145	6722	21.9	1	9	9	-1.797	3.0209E-07
5	9.52	DDD	0.0094	0.3764%	30977	1315	23.6	2	9	9	-1.107	3.0209E-07
8	12.29	DDT	2.4321	97.8354%	8050866	238048	33.8	2	9	9	.3949	3.0209E-07
9	22.71	MIREX	1.0000	0.0000%	3310267	50543	65.5	1	9	9	0	3.0209E-07

TOTAL AMOUNT = 2.4859

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC3.ATB
Data File = W:1IC3.PTS Printed on 11-06-1990 at 16:42:36
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/13/90

SECONDARY COLUMN

Output redirected to LPT1:
DDT #3 Processed: 11-12-1990 13:33:44, segment 3, cycle 3
RAW DATA SAVED IN FILE U:1ALC03.PTS Second Channel Stored in U:2ALC03.PTS

****** INTERNAL STANDARD TABLE ******

********** 11-12-1990 13:33:53 Version 4.1 **********
* Sample Name: DDT #3 Data File: U:1ALC03 *
* Date: 11-12-1990 13:33:49 Method: U:1DDTBD 10-30-1990 13:13:47 # 20 *
* Interface: 0 Cycle#: 3 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

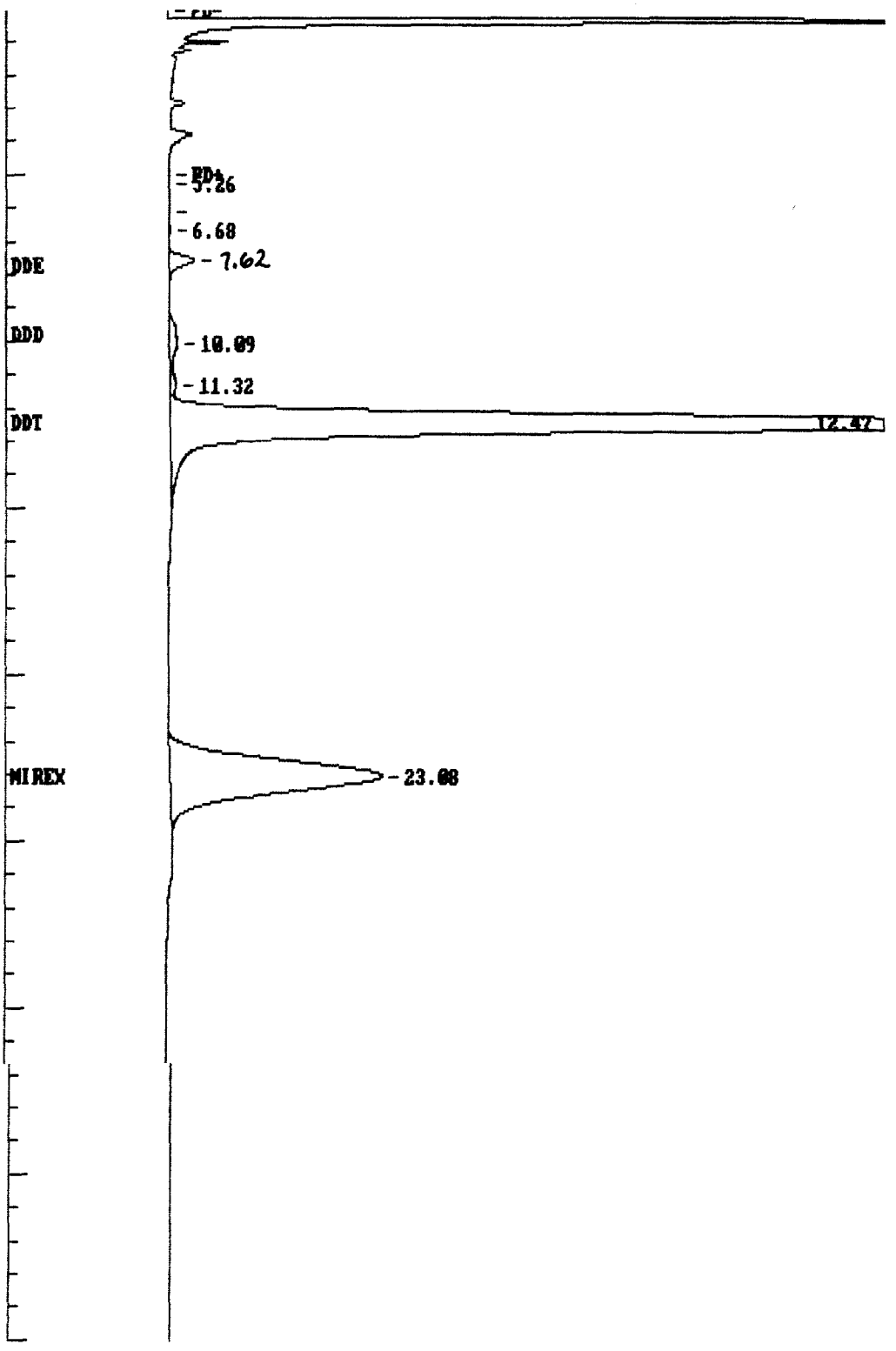
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	7.62	DDE	0.0417	1.6151%	144097	6379	22.6	1	8	8	-1.854	2.8918E-07
5	10.09	DDD	0.0339	1.3147%	117297	2085	56.3	2	8	8	3.123	2.8918E-07
7	12.47	DDT	2.5045	97.0703%	8660694	251756	34.4	2	8	8	.2733	2.8918E-07
8	23.08	MIREX	1.0000	0.0000%	3458045	52434	66.0	1	8	8	0	2.8918E-07

TOTAL AMOUNT = 2.5801

DKC
11/26/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALCO3.ATB
Data File = U:1ALCO3.PTS Printed on 11-12-1990 at 13:34:08
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KOT
11/19/90

SECONDARY COLUMN

NEW TIMED EVENTS FROM U:1DDTBD1
NEW TIMED EVENTS FROM U:1DDTBD1

***** INTERNAL STANDARD TABLE *****

********** 11-19-1990 11:03:43 Version 4.1 **********
* Sample Name: DDT #4 Data File: U:1ALC028 *
* Date: 11-14-1990 07:09:29 Method: U:1DDTBD1 11-19-1990 11:01:22 # 22 *
* Interface: 0 Cycle#: 28 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

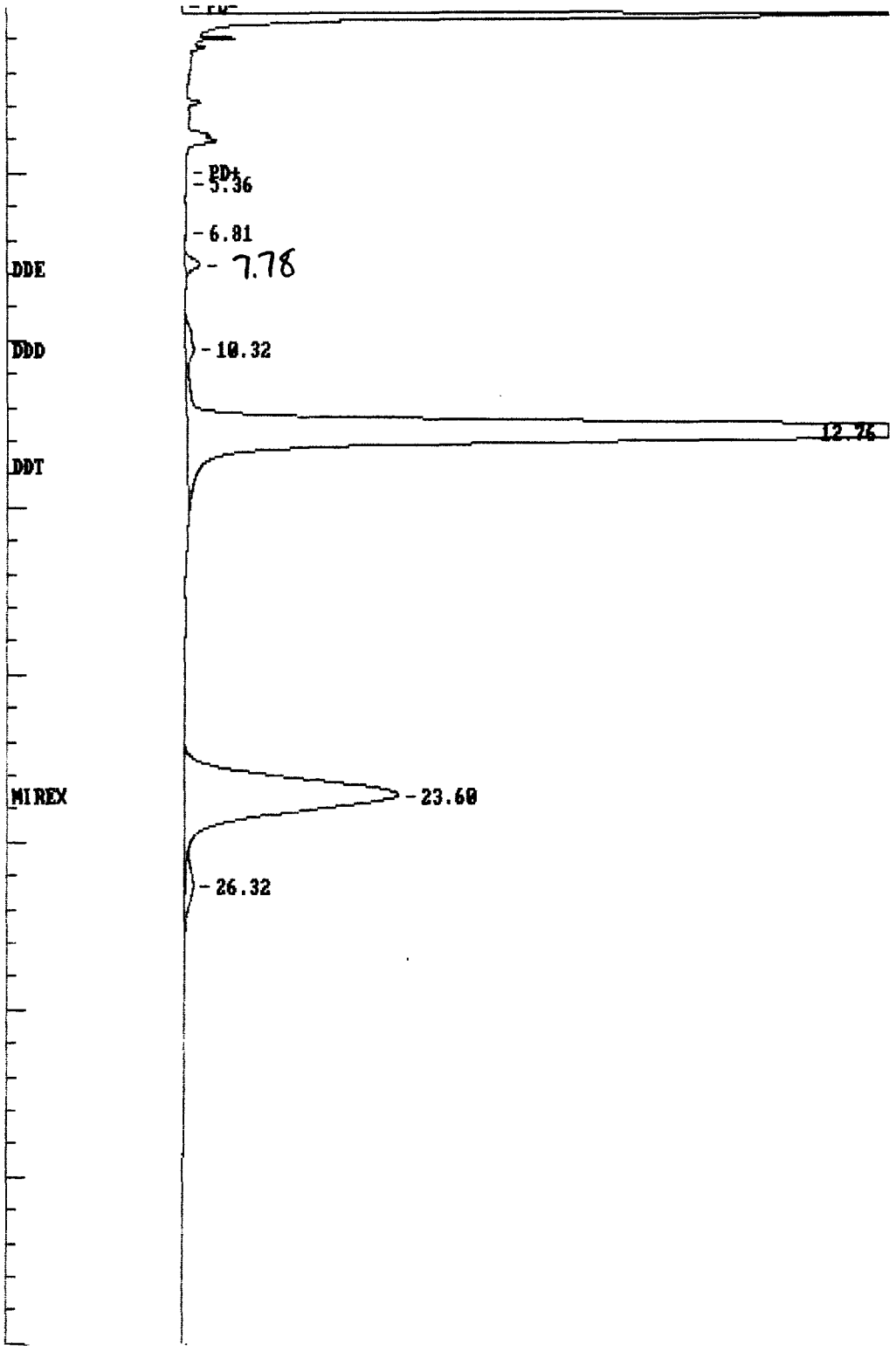
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	7.78	DDE	0.0233	0.8743%	83223	3759	22.1	1	6	6	-.9776	2.8047E-07
4	10.32	DDD	0.0302	1.1318%	107740	2000	53.9	2	6	6	0	2.8047E-07
5	12.76	DDT	2.6163	97.9940%	9328401	267086	34.9	2	6	6	-7.264	2.8047E-07
6	23.60	MIREX	1.0000	0.0000%	3565482	52636	67.7	3	6	6	0	2.8047E-07

TOTAL AMOUNT = 2.6699

DKC
11/26/90

SECONDARY COLUMN

Data File = U:1ALCO28.PTS Printed on 11-19-1990 at 11:04:21
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/26/90

PART III

Calibration Reports/Chromatograms and Calibration Curves

A. Pesticide Mix A
(primary & secondary)

B. Pesticide Mix B
(primary & secondary)

C. Aroclor 1242
(primary & secondary)

D. TCMX (primary & secondary)

PRIMARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-07-1990 13:32:25 Version 4.1 **********************
* Sample Name: PEST A L1                          Data File: W:2IC6        *
* Date: 11-06-1990 18:54:43 Method: W:2PESTA 11-07-1990 13:08:06  #  127   *
* Interface: 0   Cycle#:  6    Operator SKF Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  11   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~CONFIRMATORY COLUMN~~                ~~CONFIRMATORY CO~~  *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00
Area reject: 0
Amount injected: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

Ending retention time: 40.00
One sample per 1.002 sec.
Dilution factor: 1.00

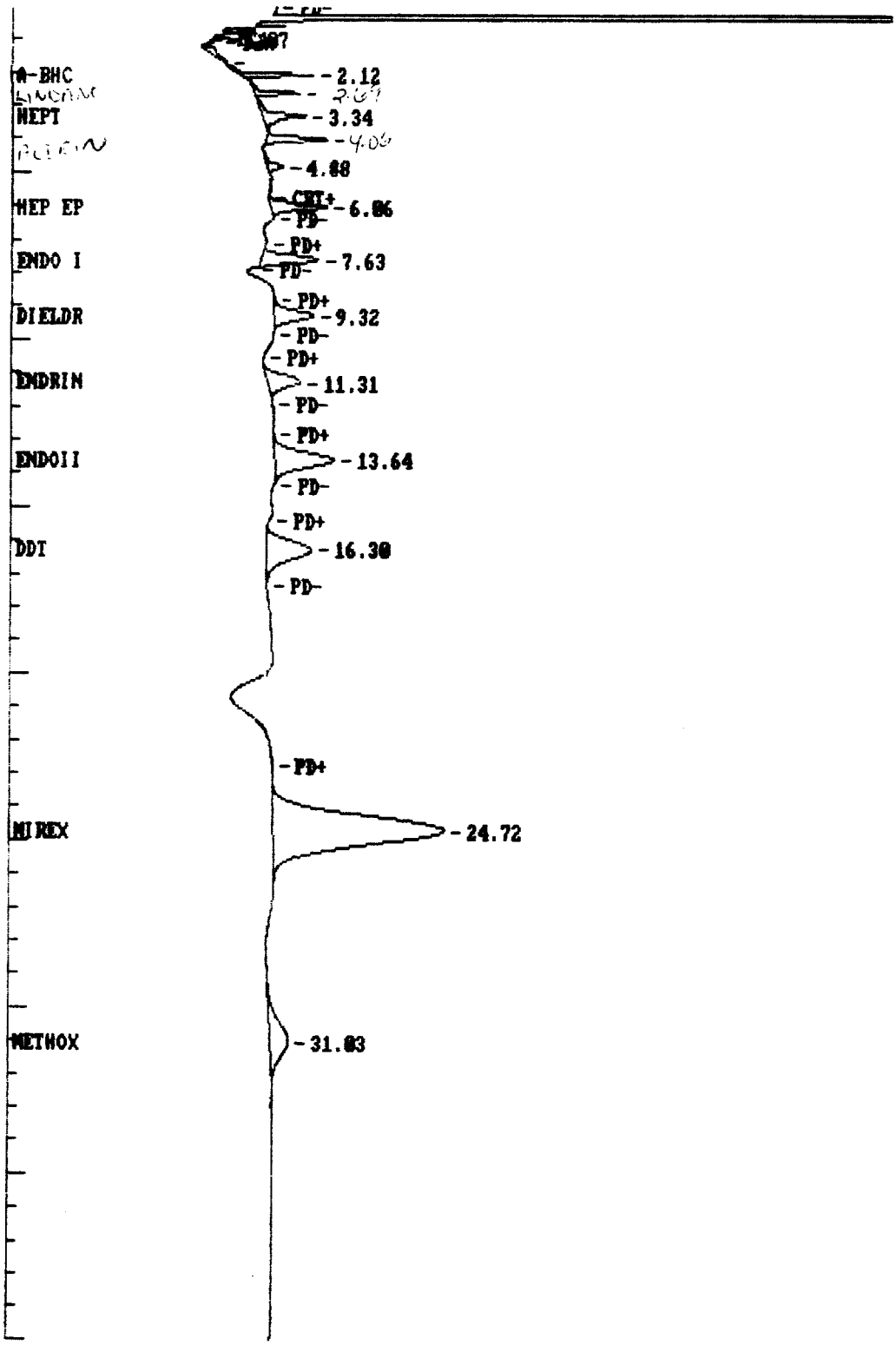
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Kg	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.12	A-BHC	0.0013	2.9178%	93851	17481	5.4	1	14	14	.1351	1.3324E-08
4	2.69	LINDANE	0.0012	2.7576%	77175	10850	7.1	1	14	14	.1351	1.5314E-08
5	3.34	HEPT	0.0013	2.9612%	138183	10634	13.0	1	14	14	-.3630	9.1844E-09
6	4.06	ALDRIN	0.0023	5.3617%	148462	15149	9.8	1	14	14	.1351	1.5478E-08
8	6.06	HEP EPOX	0.0026	6.0620%	194214	13776	14.1	1	14	14	.1351	1.3377E-08
9	7.63	ENDO I	0.0033	7.8037%	237227	14062	16.9	1	14	14	0	1.4099E-08
10	9.32	DIELDRIN	0.0031	7.1608%	210901	9781	21.6	1	14	14	0	1.4552E-08
11	11.31	ENDRIN	0.0054	12.6278%	205763	8138	25.3	1	14	14	.1351	2.6303E-08
12	13.64	ENDOII	0.0062	14.5167%	461469	14622	31.6	1	14	14	.0127	1.3482E-08
13	16.30	DDT	0.0073	17.0905%	422299	10947	38.6	1	14	14	0	1.7345E-08
14	24.72	MIREX	1.0000	0.0000%	2535227	42243	60.0	1	14	14	0	3.9444E-07
15	31.03	METHOXYCHLOR	0.0089	20.7403%	347183	4566	76.0	1	14	14	0	2.5603E-08

TOTAL AMOUNT = 0.0429

SD 11/9/90

PRIMARY COLUMN

Data File = W:21C6.PTS Printed on 11-07-1990 at 13:33:14
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8/11/90

PRIMARY COLUMN

****** INTERNAL STANDARD TABLE ******

********** 11-07-1990 13:21:45 Version 4.1 **********

* Sample Name: PEST A L2 Data File: W:2IC7 *
* Date: 11-06-1990 19:38:52 Method: W:2PESTA 11-07-1990 13:08:06 # 127 *
* Interface: 0 Cycle#: 7 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * OKC 11/26/90
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

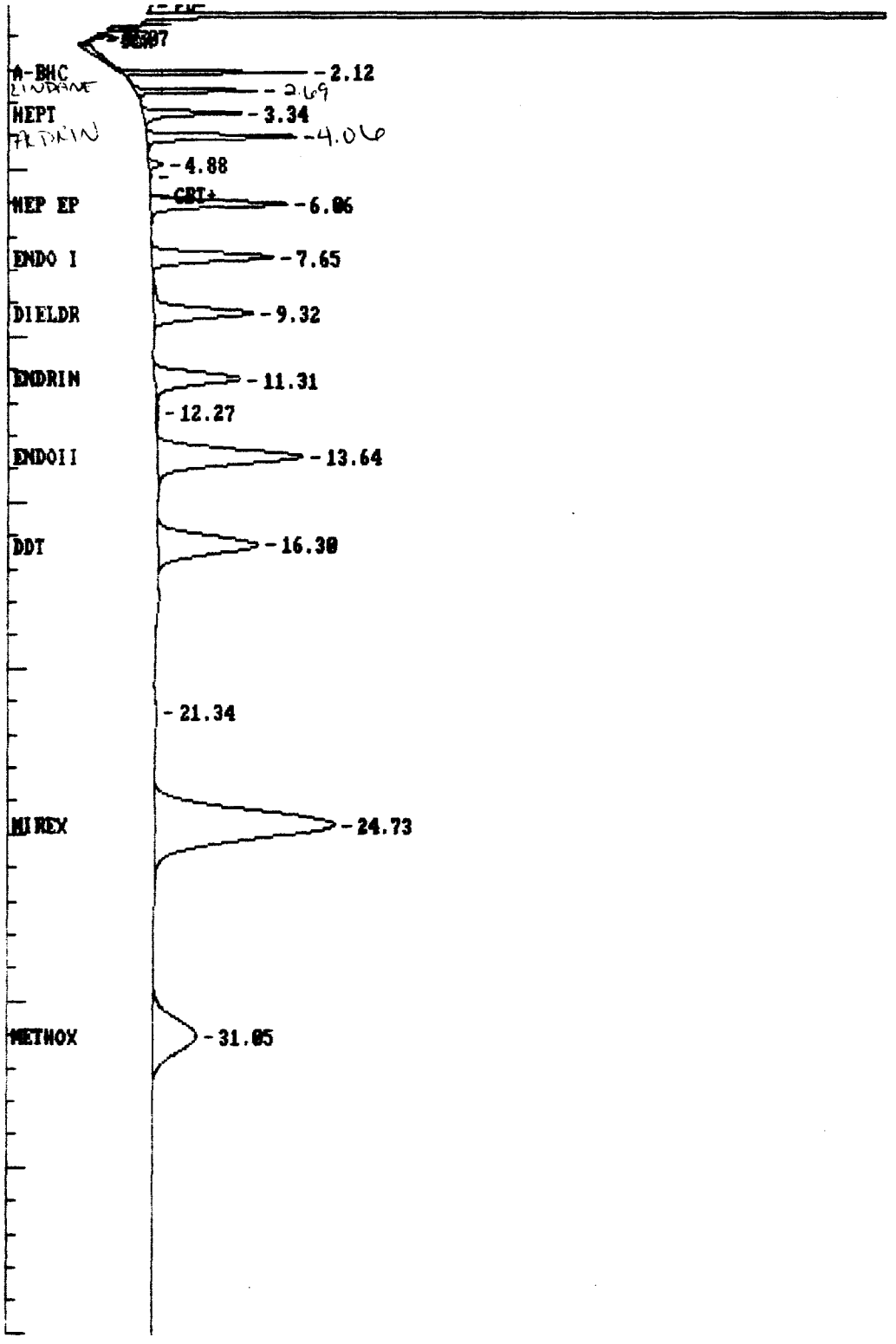
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	2.12	A-BHC	0.0034	3.6201%	285536	46370	6.2	1	16	16	0	1.1836E-08
3	2.69	LINDANE	0.0025	2.6360%	189924	30039	6.3	1	16	16	0	1.2957E-08
4	3.34	HEPT	0.0023	2.4956%	231667	24372	9.5	1	16	16	-.4303	1.0057E-08
5	4.06	ALDRIN	0.0049	5.2776%	362317	36892	9.8	1	16	16	0	1.3598E-08
8	6.06	HEP EPOX	0.0063	6.7035%	495256	33930	14.6	1	16	16	0	1.2636E-08
9	7.65	ENDO I	0.0074	7.8880%	542657	30146	18.0	2	16	16	0	1.3570E-08
10	9.32	DIELDRIN	0.0076	8.1143%	565081	24725	22.9	2	16	16	-.1114	1.3405E-08
11	11.31	ENDRIN	0.0126	13.4513%	570215	21454	26.6	3	16	16	.0675	2.2023E-08
13	13.64	ENDOII	0.0143	15.3517%	1160511	36269	32.0	2	16	16	0	1.2350E-08
14	16.30	DDT	0.0141	15.0871%	930577	25012	37.2	1	16	16	-.0348	1.5135E-08
16	24.73	MIREX	1.0000	0.0000%	2662262	44415	59.9	1	16	16	0	3.7562E-07
17	31.05	METHOXYCHLOR	0.0181	19.3749%	763367	10845	70.4	1	16	16	0	2.3695E-08

TOTAL AMOUNT = 0.0934

SB 11/9/90

PRIMARY COLUMN

Data File = W:2IC7.PTS Printed on 11-07-1990 at 13:22:08
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SG
11/9/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 13:23:10 Version 4.1 **********

* Sample Name: PEST A L3 Data File: W:2IC8 *
* Date: 11-06-1990 20:23:00 Method: W:2PESTA 11-07-1990 13:08:06 # 127 *
* Interface: 0 Cycle#: 8 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ *

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

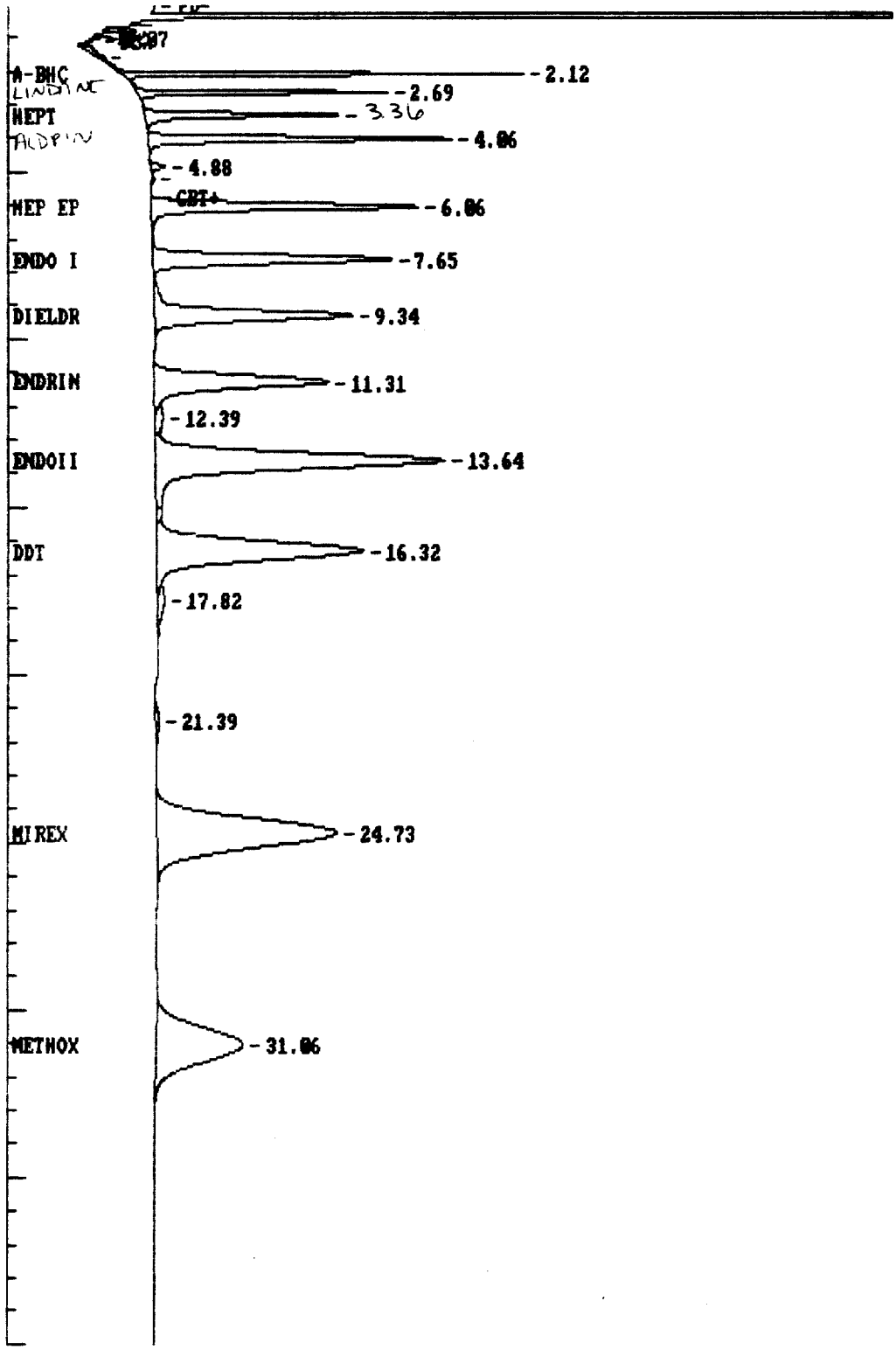
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Kn	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.12	A-BHC	0.0058	3.1099%	490334	98037	5.0	1	18	18	0	1.1759E-08
4	2.69	LINDANE	0.0048	2.5774%	383498	61231	6.3	1	18	18	0	1.2461E-08
5	3.36	HEPT	0.0048	2.5901%	429263	47585	9.0	1	18	18	0	1.1187E-08
6	4.06	ALDRIN	0.0096	5.1970%	724958	74257	9.8	1	18	18	0	1.3291E-08
9	6.06	HEP EPOX	0.0122	6.5964%	961223	65632	14.6	2	18	18	0	1.2724E-08
10	7.65	ENDO I	0.0146	7.8620%	1059119	58633	18.1	2	18	18	0	1.3763E-08
11	9.34	DIELDRIN	0.0147	7.9335%	1098392	48503	22.6	2	18	18	.0675	1.3392E-08
12	11.31	ENDRIN	0.0245	13.1929%	1148956	42715	26.9	3	18	18	.0675	2.1290E-08
14	13.64	ENDOII	0.0294	15.8717%	2395280	71192	33.6	2	18	18	0	1.2286E-08
15	16.32	DDT	0.0292	15.7260%	1997234	50798	39.3	3	18	18	0	1.4599E-08
18	24.73	MIREX	1.0000	0.0000%	2636536	44115	59.8	1	18	18	0	3.7929E-07
19	31.06	METHOXYCHLOR	0.0359	19.3431%	1519203	21343	71.2	1	18	18	0	2.3607E-08

TOTAL AMOUNT = 0.1854

11/9/90

PRIMARY COLUMN

Data File = W:2IC8.PTS Printed on 11-07-1990 at 13:23:33
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/9/90

PRIMARY COLUMN

****** INTERNAL STANDARD TABLE ******

********** 11-07-1990 13:24:39 Version 4.1 **********

* Sample Name: PEST A L4 Data File: W:2IC9 *
* Date: 11-06-1990 21:07:05 Method: W:2PESTA 11-07-1990 13:08:06 # 127 *
* Interface: 0 Cycle#: 9 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ * 11/26/

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

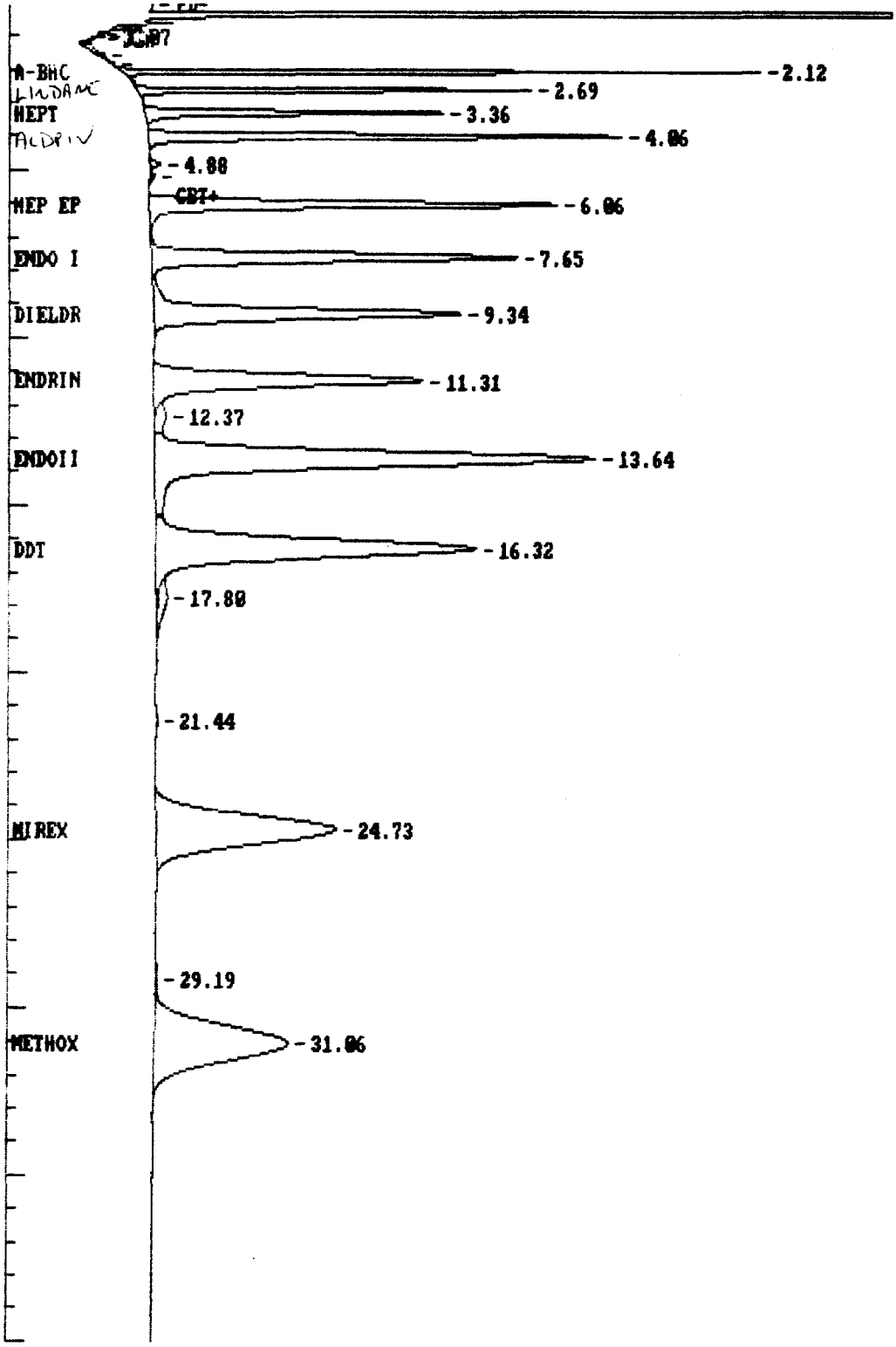
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	2.12	A-BHC	0.0093	3.2396%	793728	156951	5.1	1	19	19	0	1.1654E-08
5	2.69	LINDANE	0.0074	2.5935%	605232	96897	6.2	1	19	19	0	1.2236E-08
6	3.36	HEPT	0.0074	2.6047%	642544	73384	8.8	1	19	19	0	1.1575E-08
7	4.06	ALDRIN	0.0149	5.2096%	1132886	116542	9.7	1	19	19	0	1.3130E-08
10	6.06	HEP EPOX	0.0187	6.5531%	1472758	100306	14.7	2	19	19	0	1.2705E-08
11	7.65	ENDO I	0.0225	7.8849%	1633924	90043	18.1	2	19	19	0	1.3779E-08
12	9.34	DIELDRIN	0.0226	7.9174%	1695561	75551	22.4	2	19	19	.0675	1.3333E-08
13	11.31	ENDRIN	0.0369	12.9308%	1761379	66320	26.6	3	19	19	.0675	2.0962E-08
15	13.64	ENDOII	0.0448	15.7039%	3669051	108626	33.8	2	19	19	0	1.2221E-08
16	16.32	DDT	0.0447	15.6415%	3105077	78870	39.4	3	19	19	0	1.4383E-08
19	24.73	MIREX	1.0000	0.0000%	2637778	44314	59.5	1	19	19	0	3.7911E-07
21	31.06	METHOXYCHLOR	0.0563	19.7209%	2398126	32974	72.7	2	19	19	0	2.3481E-08

TOTAL AMOUNT = 0.2855

SB 11/9/90

PRIMARY COLUMN

Data File = W:2IC9.PTS Printed on 11-07-1990 at 13:25:02
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8/19/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 13:26:11 Version 4.1 **********

* Sample Name: PEST A L5 Data File: W:2IC10 *
* Date: 11-06-1990 21:51:14 Method: W:2PESTA 11-07-1990 13:08:06 # 127 *
* Interface: 0 Cycle#: 10 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

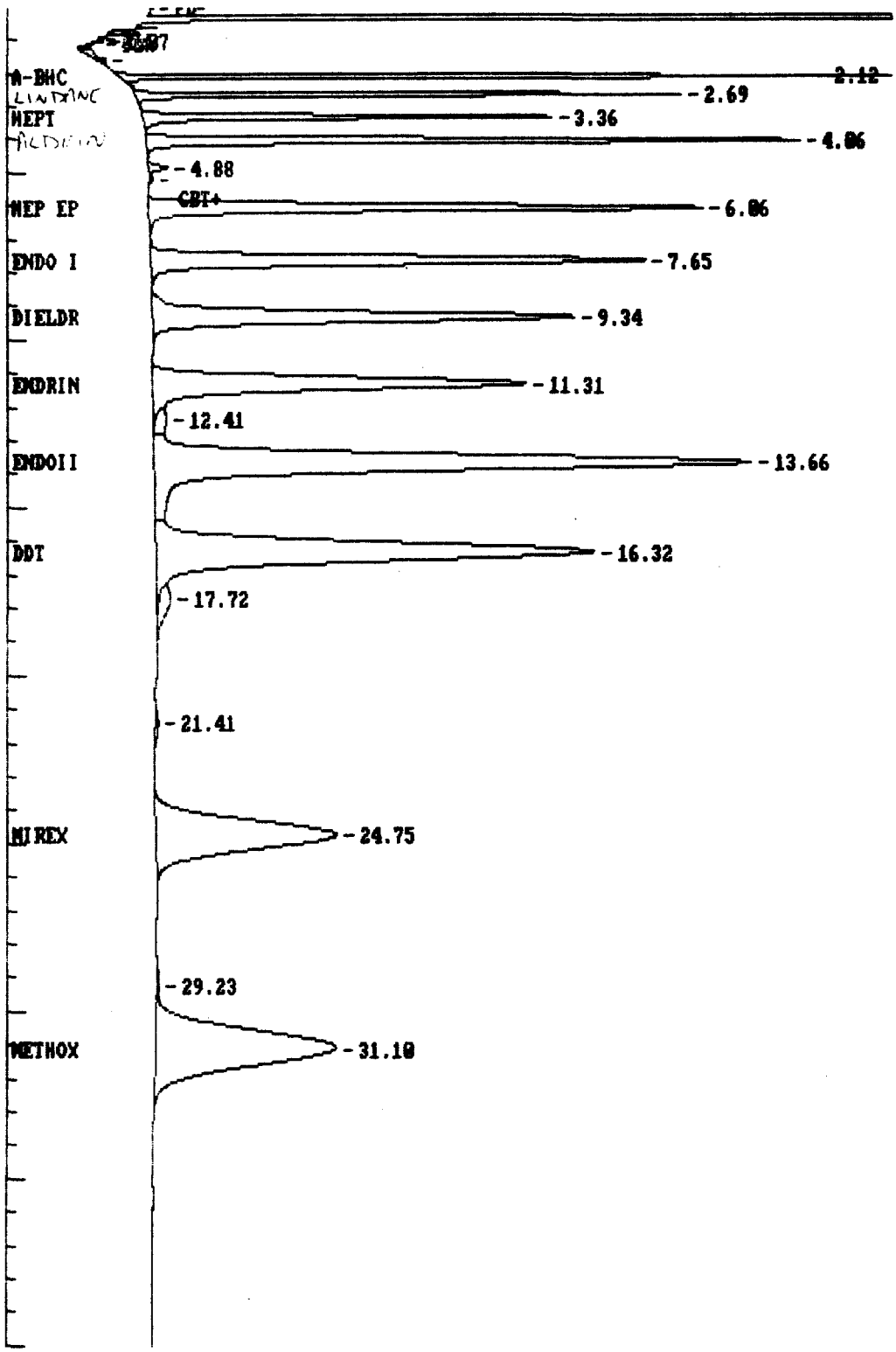
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.12	A-BHC	0.0128	3.3011%	1098979	217317	5.1	1	18	18	0	1.1605E-08
4	2.69	LINDANE	0.0102	2.6332%	838973	133991	6.3	1	18	18	0	1.2126E-08
5	3.36	HEPT	0.0102	2.6302%	863111	100297	8.6	1	18	18	0	1.1773E-08
6	4.06	ALDRIN	0.0203	5.2451%	1552654	160242	9.7	1	18	18	0	1.3051E-08
9	6.06	HEP EPOX	0.0251	6.4973%	1977414	135893	14.6	2	18	18	0	1.2694E-08
10	7.65	ENDO I	0.0302	7.8170%	2190899	121376	18.1	2	18	18	0	1.3785E-08
11	9.34	DIELDRIN	0.0300	7.7753%	2257873	103559	21.8	2	18	18	0	1.3304E-08
12	11.31	ENDRIN	0.0506	13.1094%	2436235	91696	26.6	3	18	18	0	2.0789E-08
14	13.66	ENDOII	0.0605	15.6548%	4962378	146720	33.8	2	18	18	0	1.2188E-08
15	16.32	DDT	0.0608	15.7298%	4256724	107760	39.5	3	18	18	0	1.4277E-08
18	24.75	MIREX	1.0000	0.0000%	2638655	44357	59.5	1	18	18	0	3.7898E-07
20	31.10	METHOXYCHLOR	0.0757	19.6067%	3234253	44396	72.8	2	18	18	0	2.3421E-08

TOTAL AMOUNT = 0.3863

11/9/90

PRIMARY COLUMN

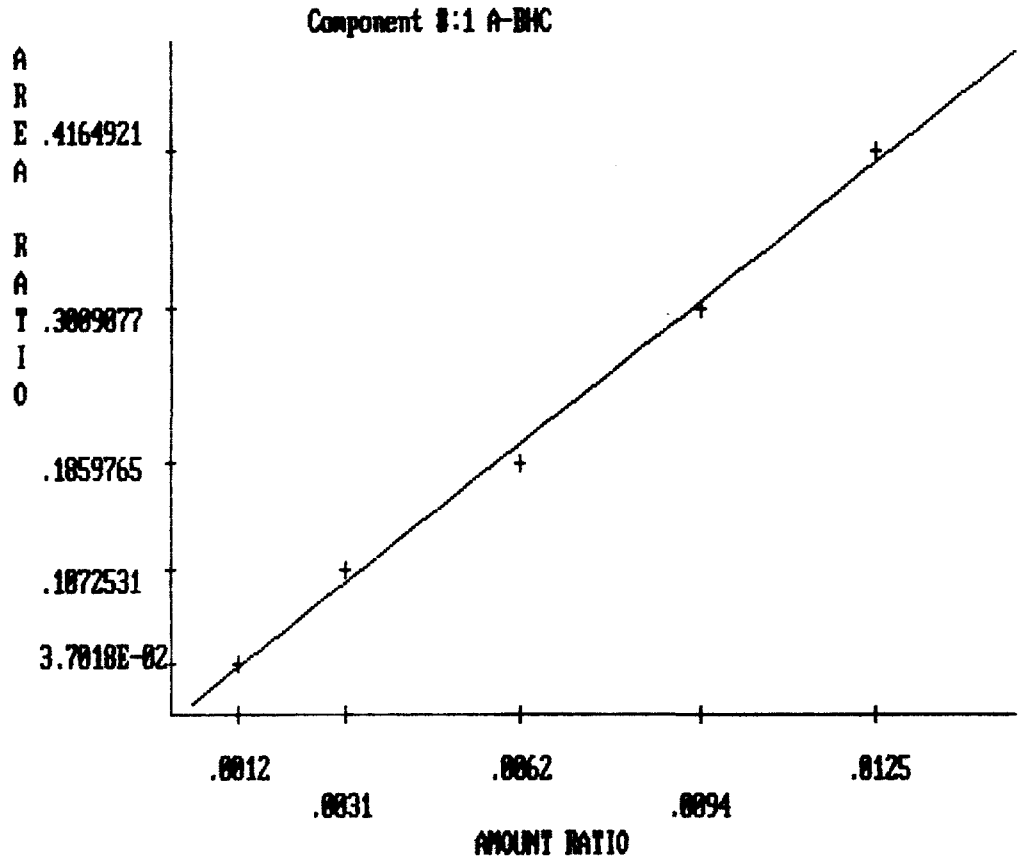
Data File = W:2IC10.PTS Printed on 11-07-1990 at 13:26:34
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SJ 11/9/90

PRIMARY COLUMN

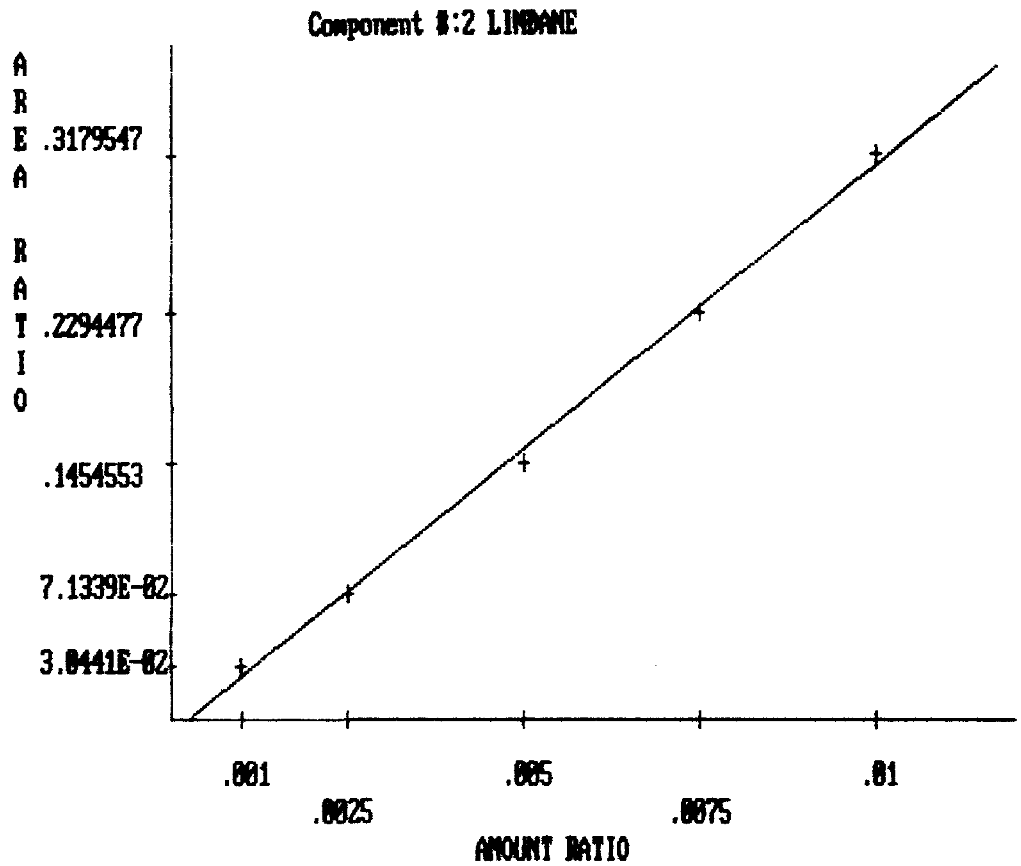
Method W:2PESTA
Sample MIXED PHASE COLUMN - PESTICIDE MIX A
Operator DKC
Run date 11-07-1990 13:08:06 version: 127
Printed on 11-07-1990 AT 13:34:42
Straight Line fit



Component 1 = A-BHC
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0012	93851	0.0012	0.0370
2	0.0031	285536	0.0031	0.1073
3	0.0062	490334	0.0062	0.1860
4	0.0094	793728	0.0094	0.3009
5	0.0125	1098979	0.0125	0.4165

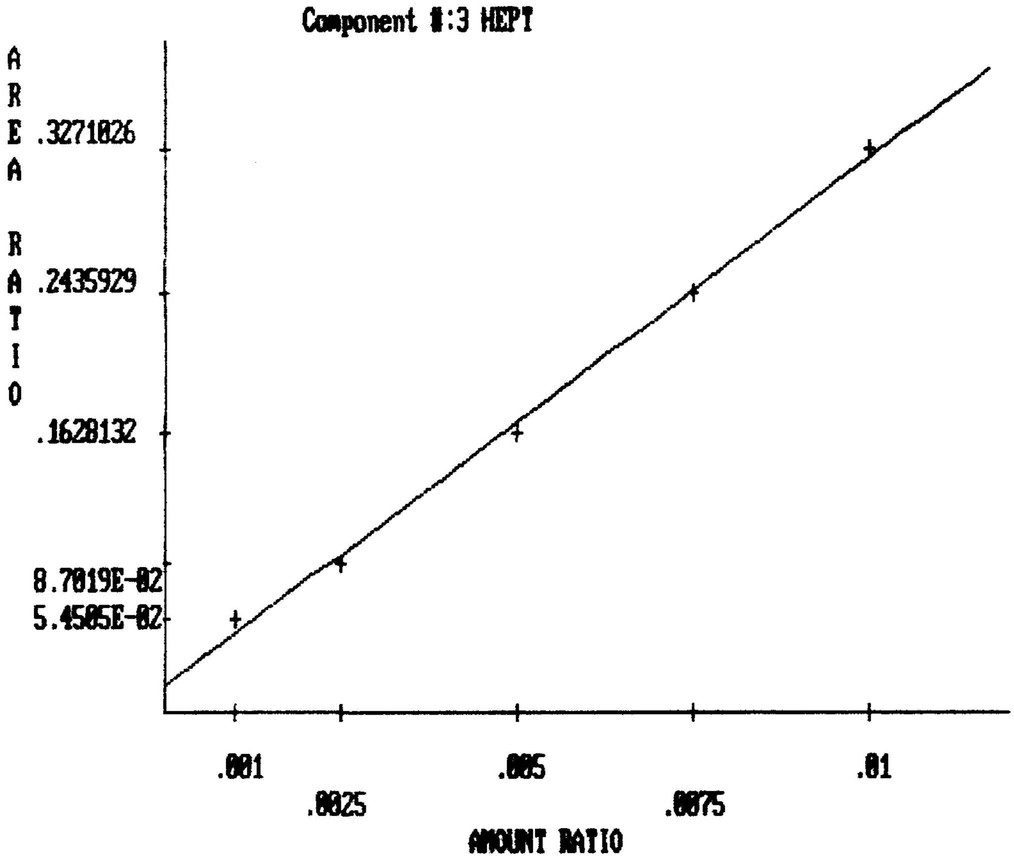
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.2988E+01 * Amt ratio + -4.2334E-03
Amt ratio = 3.0314E-02 * Area ratio + 1.2833E-04
Correlation Coefficient = 0.9958



Component 2 = LINDANE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0010	77175	0.0010	0.0304
2	0.0025	189924	0.0025	0.0713
3	0.0050	383498	0.0050	0.1455
4	0.0075	605232	0.0075	0.2294
5	0.0100	838973	0.0100	0.3180

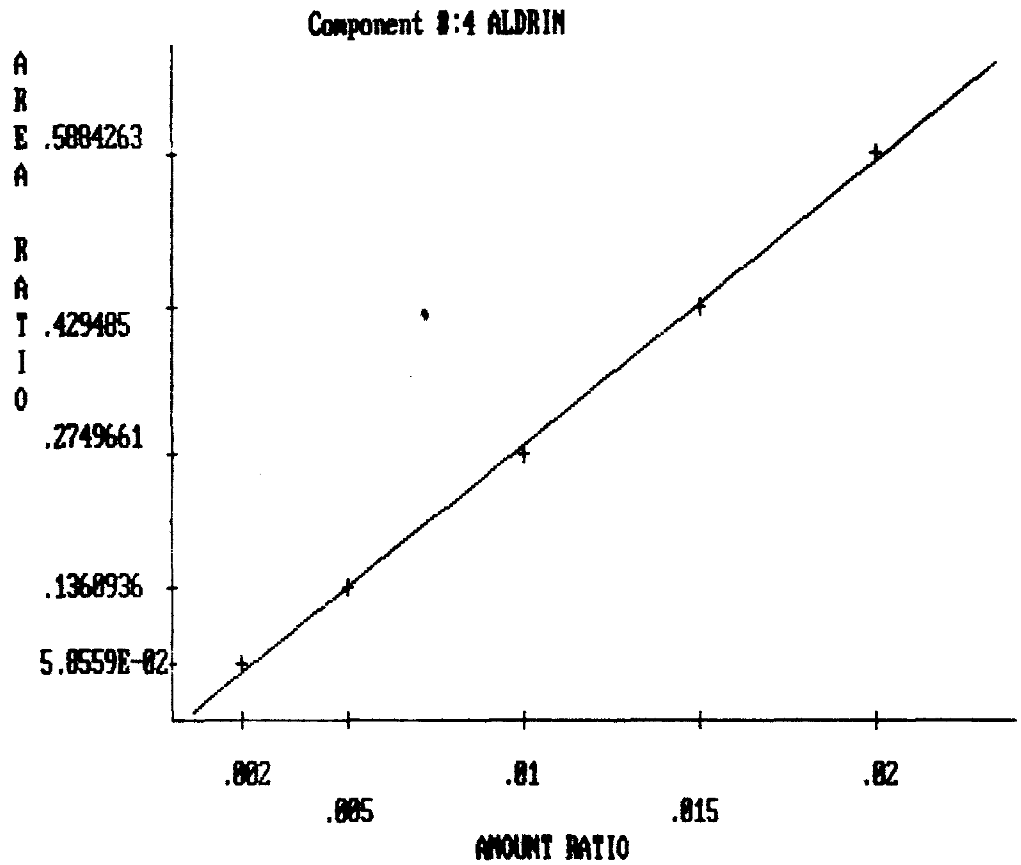
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.1977E+01 * Amt ratio + -7.3507E-03
Amt ratio = 3.1273E-02 * Area ratio + 2.2988E-04
Correlation Coefficient = 0.9977



Component 3 = HEPT
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0010	138183	0.0010	0.0545
2	0.0025	231667	0.0025	0.0870
3	0.0050	429263	0.0050	0.1628
4	0.0075	642544	0.0075	0.2436
5	0.0100	863111	0.0100	0.3271

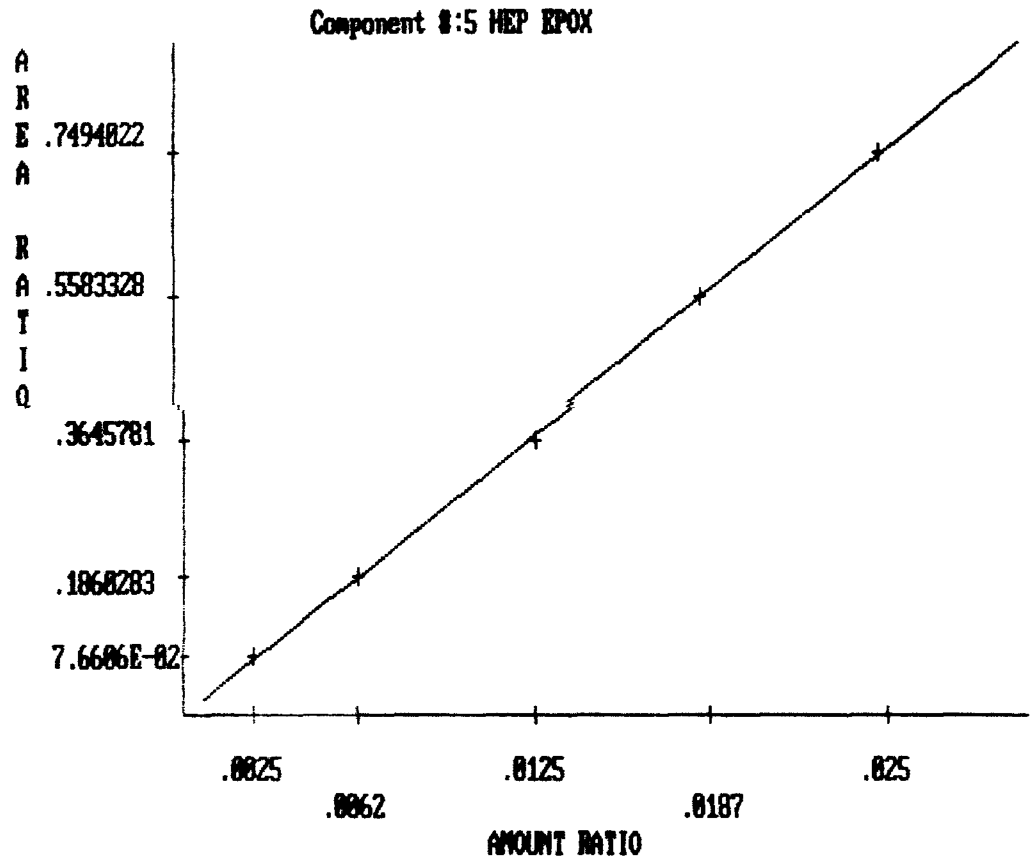
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.0655E+01 * Amt ratio + 1.5600E-02
Amt ratio = 3.2621E-02 * Area ratio + -5.0888E-04
Correlation Coefficient = 0.9968



Component 4 = ALDRIN
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0020	148462	0.0020	0.0586
2	0.0050	362317	0.0050	0.1361
3	0.0100	724958	0.0100	0.2750
4	0.0150	1132886	0.0150	0.4295
5	0.0200	1552654	0.0200	0.5884

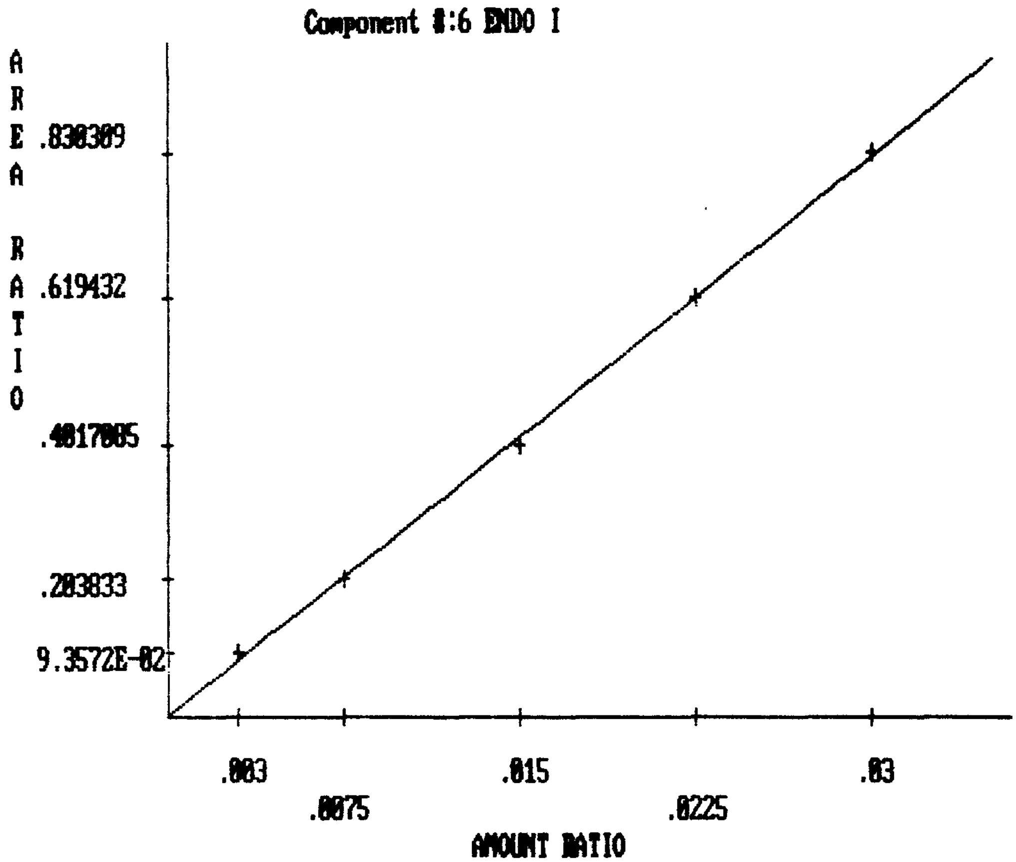
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.9492E+01 * Amt ratio + -9.2125E-03
Amt ratio = 3.3907E-02 * Area ratio + 3.1237E-04
Correlation Coefficient = 0.9985



Component 5 = HEP EPOX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	194214	0.0025	0.0766
2	0.0062	495256	0.0062	0.1860
3	0.0125	961223	0.0125	0.3646
4	0.0187	1472758	0.0187	0.5583
5	0.0250	1977414	0.0250	0.7494

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.9897E+01 * Amt ratio + -1.0681E-03
Amt ratio = 3.3449E-02 * Area ratio + 3.5725E-05
Correlation Coefficient = 0.9997



Component 6 = ENDO 1

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	237227	0.0030	0.0936
2	0.0075	542657	0.0075	0.2038
3	0.0150	1059119	0.0150	0.4017
4	0.0225	1633924	0.0225	0.6194
5	0.0300	2190899	0.0300	0.8303

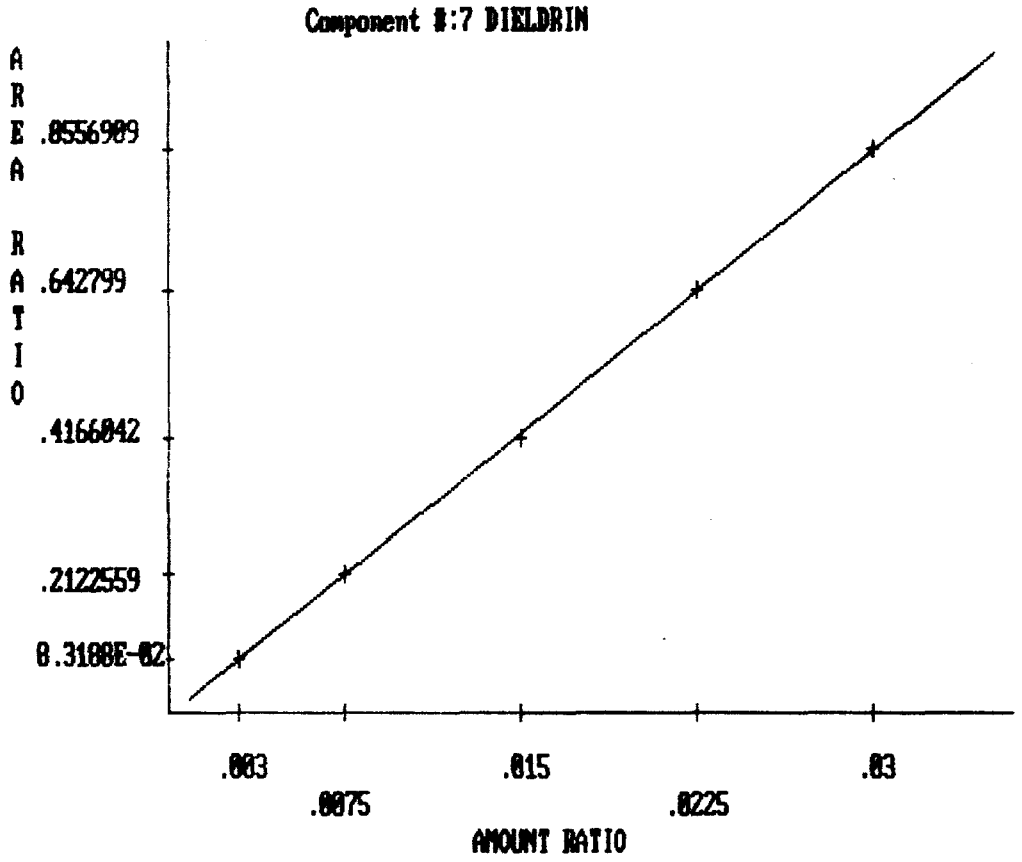
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.7433E+01 * Amt ratio + 1.8215E-03

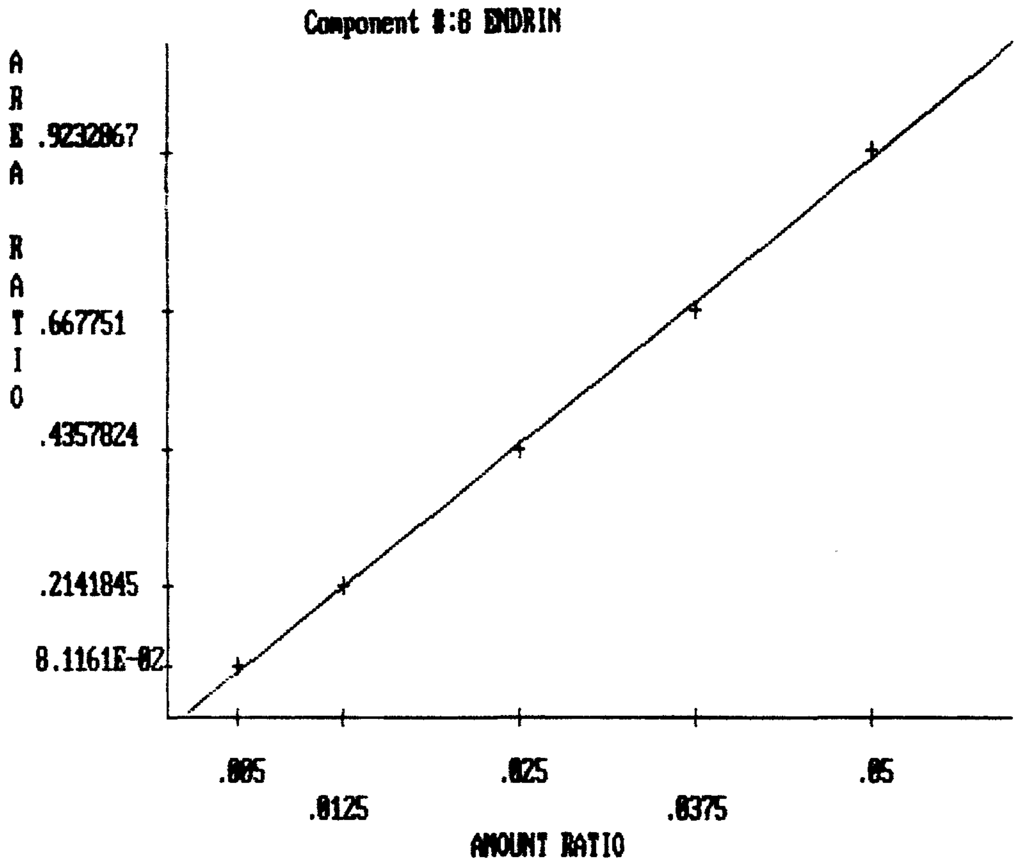
Amt ratio = 3.6453E-02 * Area ratio + -6.6398E-05

Correlation Coefficient = 0.9993



Component 7 = DIELDRIN
INTERNAL STANDARD CALIBRATION

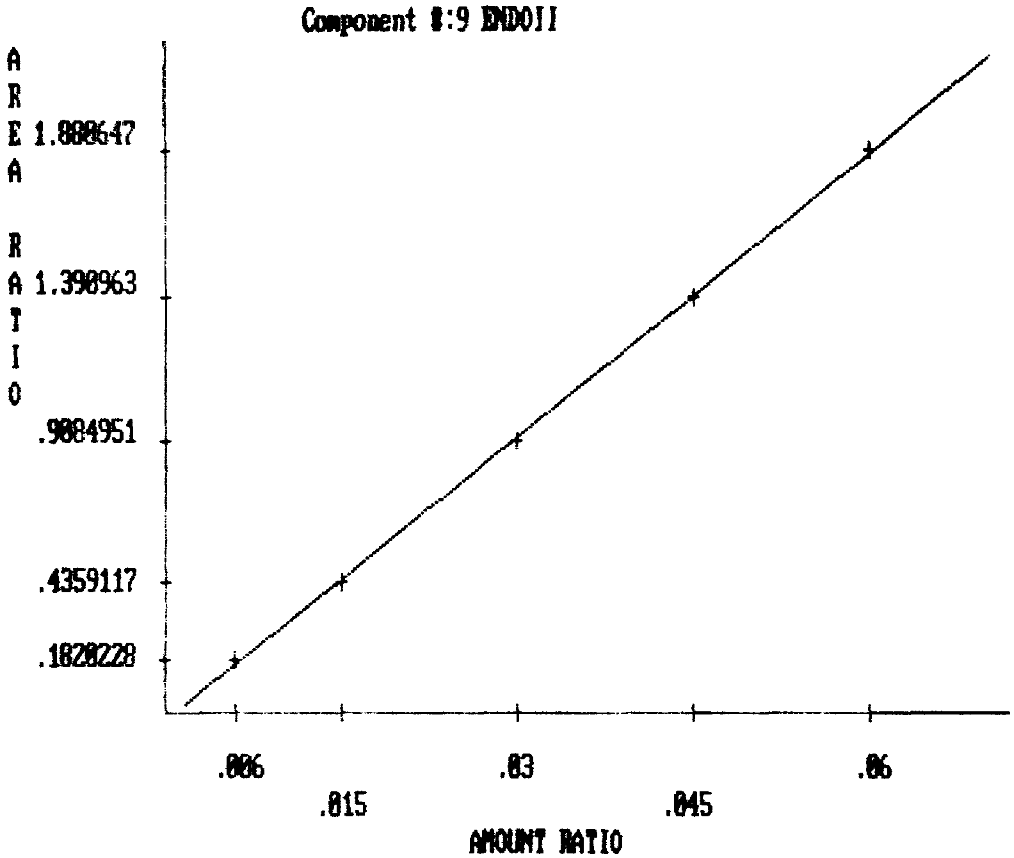
LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	210901	0.0030	0.0832
2	0.0075	565081	0.0075	0.2123



Component 8 = ENDRIN
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0050	205763	0.0050	0.0812
2	0.0125	570215	0.0125	0.2142
3	0.0250	1148956	0.0250	0.4358
4	0.0375	1761379	0.0375	0.6678
5	0.0500	2436235	0.0500	0.9233

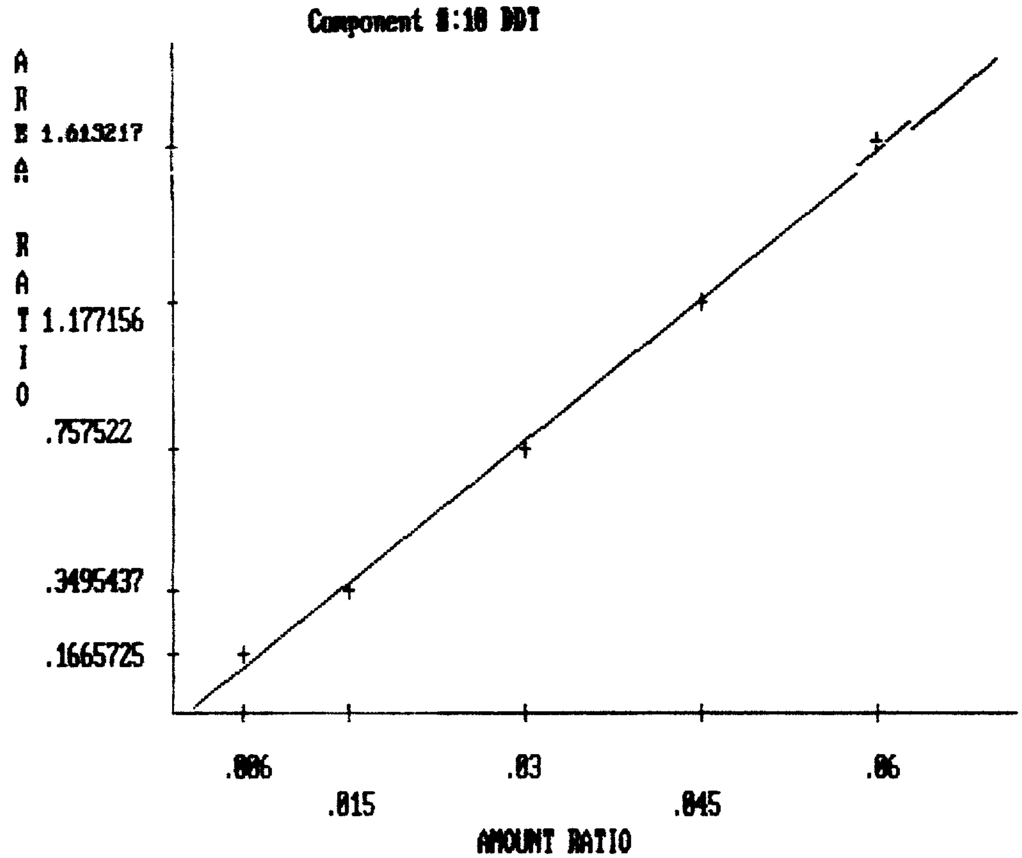
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.8616E+01 * Amt ratio + -1.9593E-02
Amt ratio = 5.3716E-02 * Area ratio + 1.0525E-03
Correlation Coefficient = 0.9991



Component 9 = ENDOII
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0060	461469	0.0060	0.1820
2	0.0150	1160511	0.0150	0.4359
3	0.0300	2395280	0.0300	0.9085
4	0.0450	3669051	0.0450	1.3910
5	0.0600	4962378	0.0600	1.8806

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.1592E+01 * Amt ratio + -2.6067E-02
Amt ratio = 3.1653E-02 * Area ratio + 8.2510E-04
Correlation Coefficient = 0.9996



Component 10 = DDT

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0060	422299	0.0060	0.1666
2	0.0150	930577	0.0150	0.3495
3	0.0300	1997234	0.0300	0.7575
4	0.0450	3105077	0.0450	1.1772
5	0.0600	4256724	0.0600	1.6132

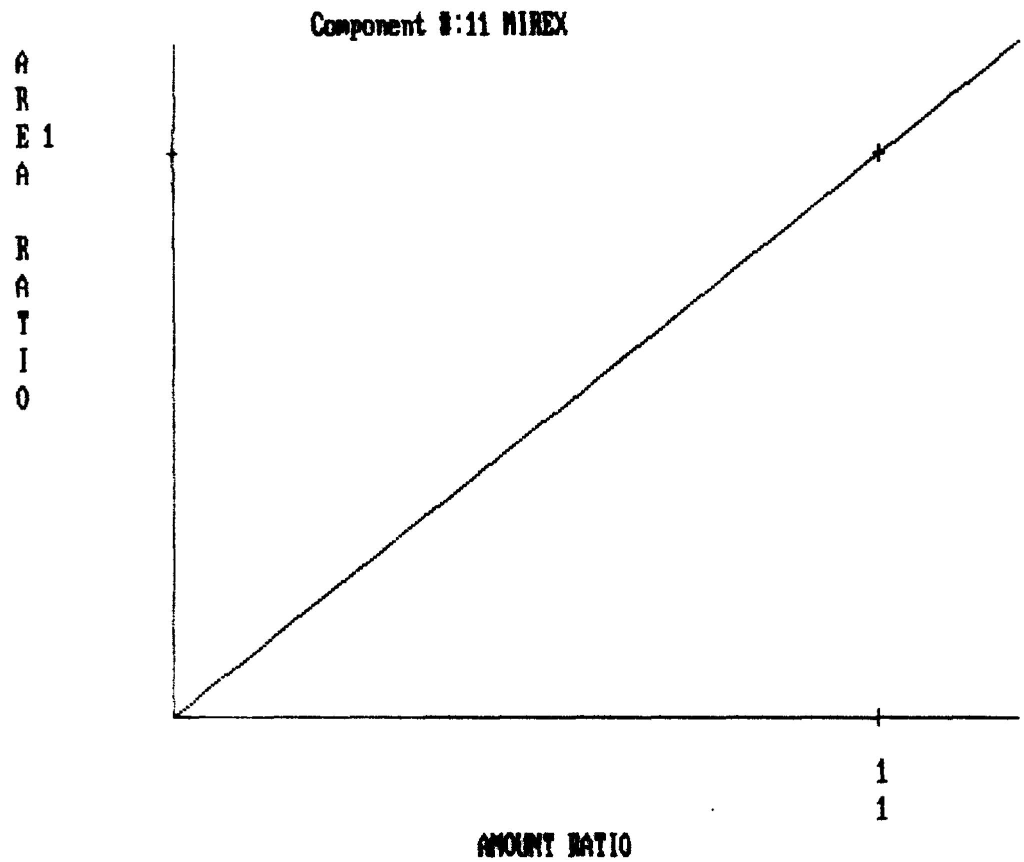
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.7067E+01 * Amt ratio + -3.1688E-02

Amt ratio = 3.6945E-02 * Area ratio + 1.1707E-03

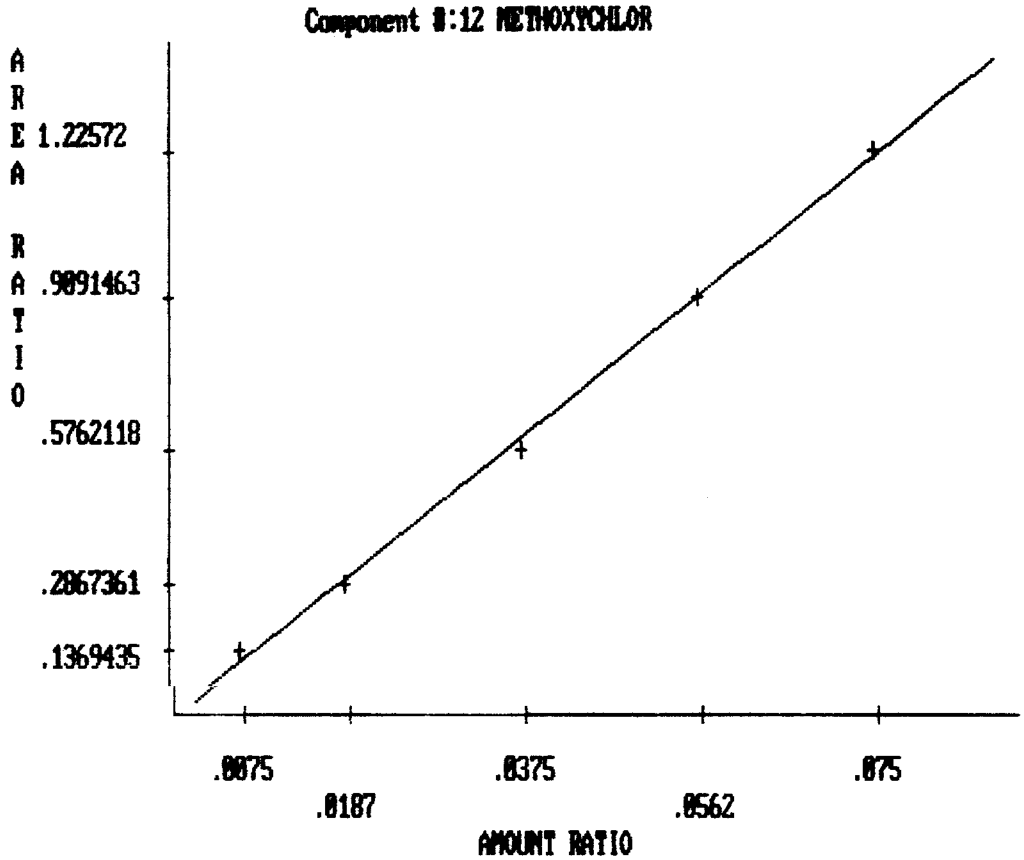
Correlation Coefficient = 0.9979



Component 11 = MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	2535227	1.0000	1.0000
2	1.0000	2662262	1.0000	1.0000
3	1.0000	2636536	1.0000	1.0000
4	1.0000	2637778	1.0000	1.0000
5	1.0000	2638655	1.0000	1.0000

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.0000E+00 * Amt ratio + 0.0000E+00
Amt ratio = 1.0000E+00 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000



Component 12 = METHOXYCHLOR
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0075	347183	0.0075	0.1369
2	0.0187	763367	0.0187	0.2867
3	0.0375	1519203	0.0375	0.5762
4	0.0562	2398126	0.0562	0.9091
5	0.0750	3234253	0.0750	1.2257

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.6284E+01 * Amt ratio + -7.8086E-03
Amt ratio = 6.1409E-02 * Area ratio + 4.7952E-04
Correlation Coefficient = 0.9982

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2PESTA

INTERNAL STANDARD TABLE

********** 11-16-1990 14:10:47 Version 4.1 **********

* Sample Name: PEST A L3 #3 Data File: U:2ALC07 *
* Date: 11-13-1990 10:50:42 Method: U:2PESTA 11-16-1990 14:10:05 # 129 *
* Interface: 0 Cycle#: 7 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: PRIMARY COLUMN PRIMARY COLUMN *

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

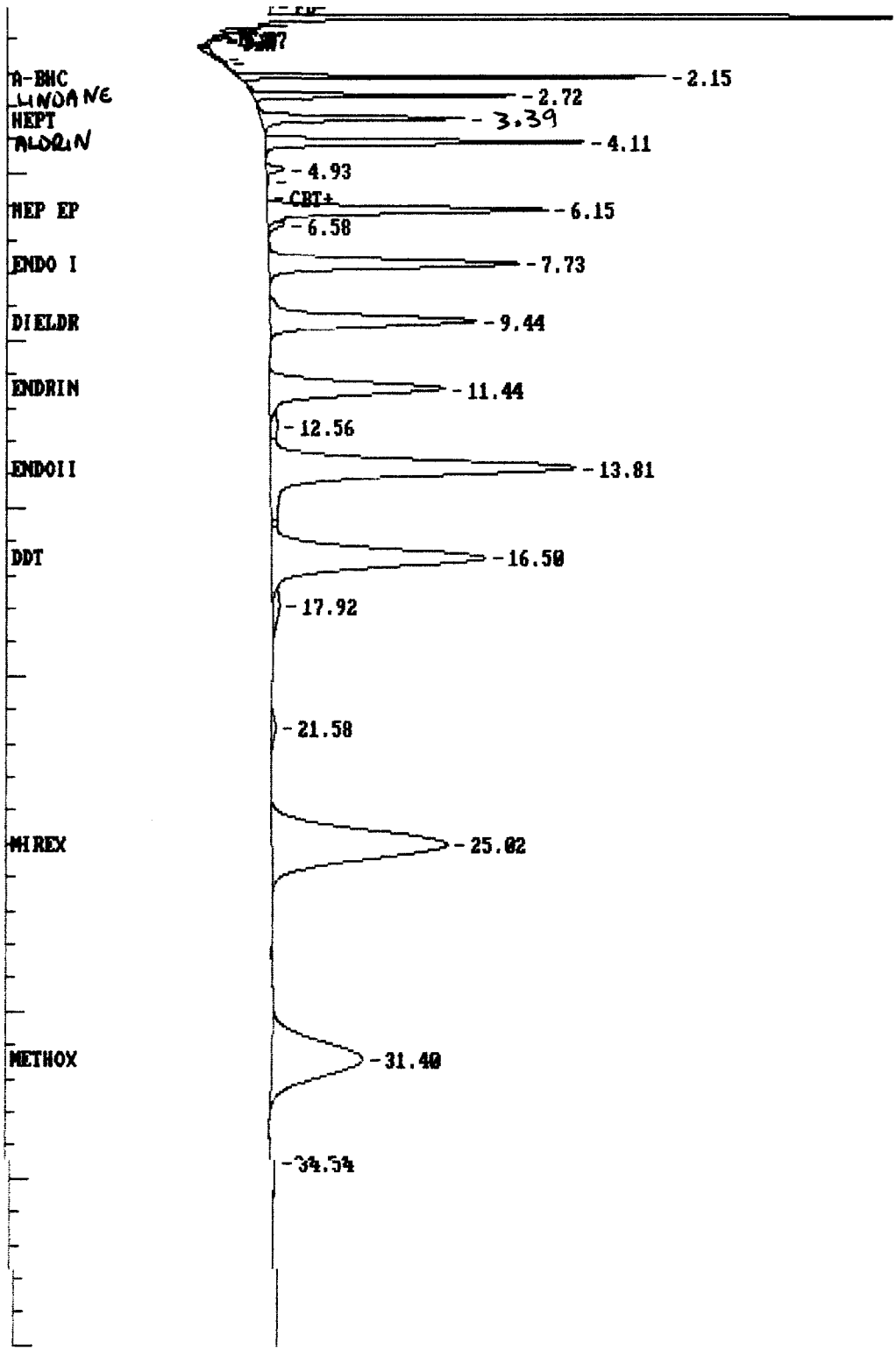
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	2.15	A-BHC	0.0061	3.1278%	516035	104388	4.9	1	20	20	.4898	1.1917E-08
5	2.72	LINDANE	0.0051	2.6146%	407956	64320	6.3	1	20	20	.1608	1.2601E-08
6	3.39	HEPT	0.0052	2.6516%	455722	49948	9.1	1	20	20	0	1.1440E-08
7	4.11	ALDRIN	0.0102	5.1880%	757609	78153	9.7	1	20	20	.1532	1.3464E-08
10	6.15	HEP EPOX	0.0131	6.6458%	1012107	68939	14.7	3	20	20	.2946	1.2910E-08
12	7.73	ENDO I	0.0156	7.9525%	1119073	61410	18.2	2	20	20	0	1.3972E-08
13	9.44	DIELDRIN	0.0153	7.7990%	1128787	50848	22.2	2	20	20	0	1.3585E-08
14	11.44	ENDRIN	0.0249	12.6605%	1153005	43087	26.8	3	20	20	.1009	2.1589E-08
16	13.81	ENDOII	0.0318	16.1717%	2552839	74971	34.1	2	20	20	0	1.2455E-08
17	16.50	DDT	0.0307	15.6185%	2077048	52607	39.5	3	20	20	0	1.4785E-08
20	25.02	MIREX	1.0000	0.0000%	2597965	43304	60.0	1	20	20	0	3.8492E-07
21	31.40	METHOXYCHLOR	0.0385	19.5701%	1607541	22394	71.8	1	20	20	-.1117	2.3936E-08

TOTAL AMOUNT = 0.1966

UM 11/19/90

PRIMARY COLUMN

Data File = U:2ALC07.PTS Printed on 11-16-1990 at 12:12:04
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VCM
11/19/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2PESTA

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 14:11:51 Version 4.1 **********

* Sample Name: PEST A L3 #4 Data File: U:2ALC015 *
* Date: 11-13-1990 16:43:47 Method: U:2PESTA 11-16-1990 14:10:05 # 129 *
* Interface: 0 Cycle#: 15 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~FIRM~~ QUANT *
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ *

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

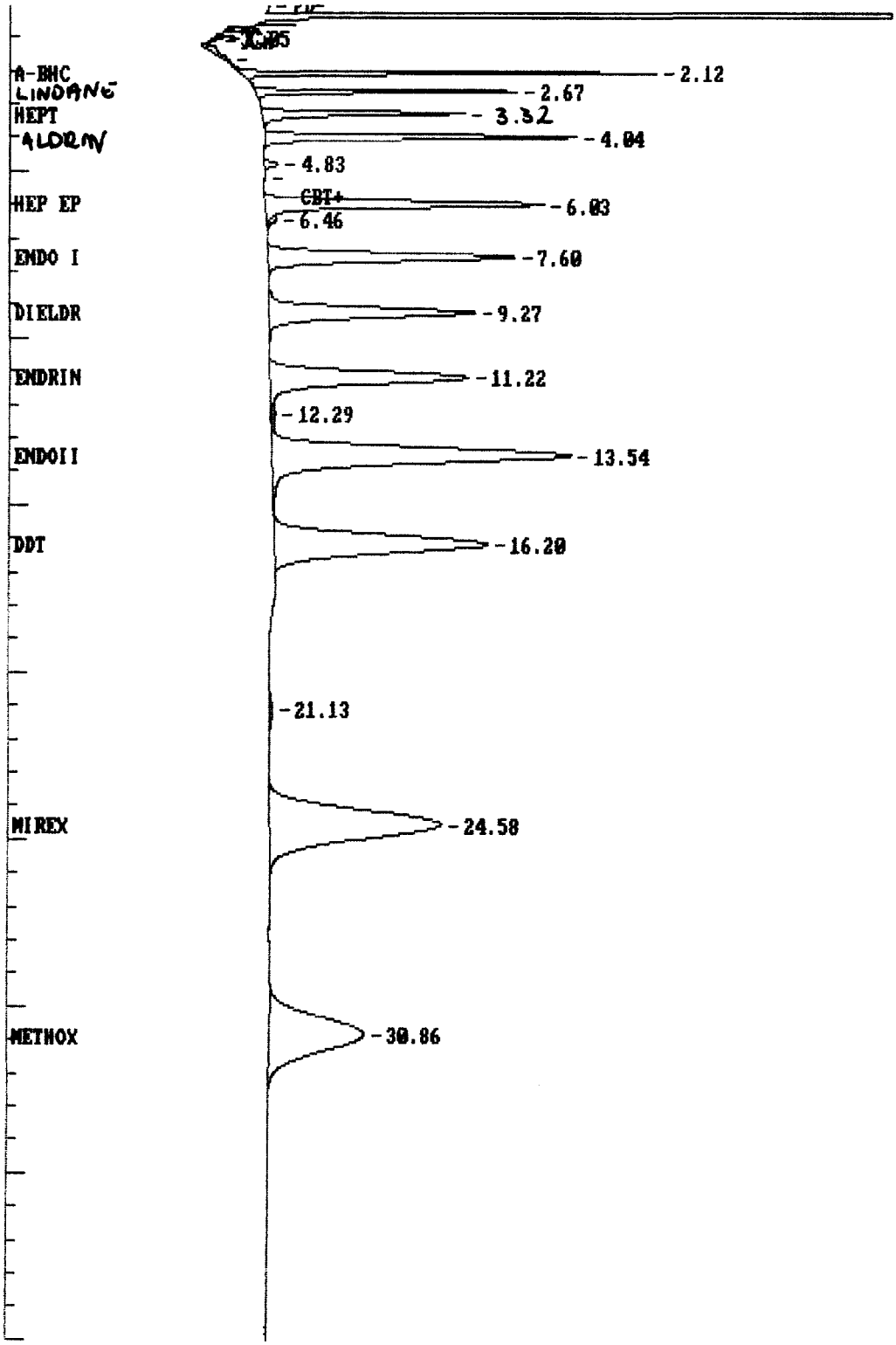
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.12	A-BHC	0.0065	3.1987%	524166	101980	5.1	1	18	18	.6793	1.2373E-08
4	2.67	LINDANE	0.0052	2.5844%	400430	64487	6.2	1	18	18	0	1.3086E-08
5	3.32	HEPT	0.0052	2.5811%	439983	49861	8.8	1	18	18	-.3224	1.1894E-08
6	4.04	ALDRIN	0.0104	5.1048%	739939	76894	9.6	1	18	18	.2650	1.3988E-08
9	6.03	HEP EPOX	0.0133	6.5793%	994158	68547	14.5	3	18	18	.1246	1.3418E-08
11	7.60	ENDO I	0.0158	7.7698%	1084740	60672	17.9	1	18	18	0	1.4523E-08
12	9.27	DIELDRIN	0.0156	7.6899%	1104432	50751	21.8	1	18	18	0	1.4117E-08
13	11.22	ENDRIN	0.0287	14.1747%	1288322	49002	26.3	3	18	18	0	2.2307E-08
15	13.54	ENDOII	0.0308	15.1720%	2375155	73737	32.2	2	18	18	-.1822	1.2951E-08
16	16.20	DDT	0.0299	14.7688%	1946636	52579	37.0	2	18	18	0	1.5382E-08
18	24.58	MIREX	1.0000	0.0000%	2499525	42213	59.2	1	18	18	0	4.0008E-07
19	30.86	METHOXYCHLOR	0.0413	20.3765%	1662062	23361	71.1	1	18	18	0	2.4857E-08

TOTAL AMOUNT = 0.2028

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC015.PTS Printed on 11-16-1990 at 12:49:27
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2PESTA1

****** INTERNAL STANDARD TABLE ******

********** 11-16-1990 14:21:49 Version 4.1 **********

* Sample Name: PEST A L3 #5 Data File: U:2ALC024 *
* Date: 11-13-1990 23:20:46 Method: U:2PESTA1 11-16-1990 14:21:09 # 131 *
* Interface: 0 Cycle#: 24 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

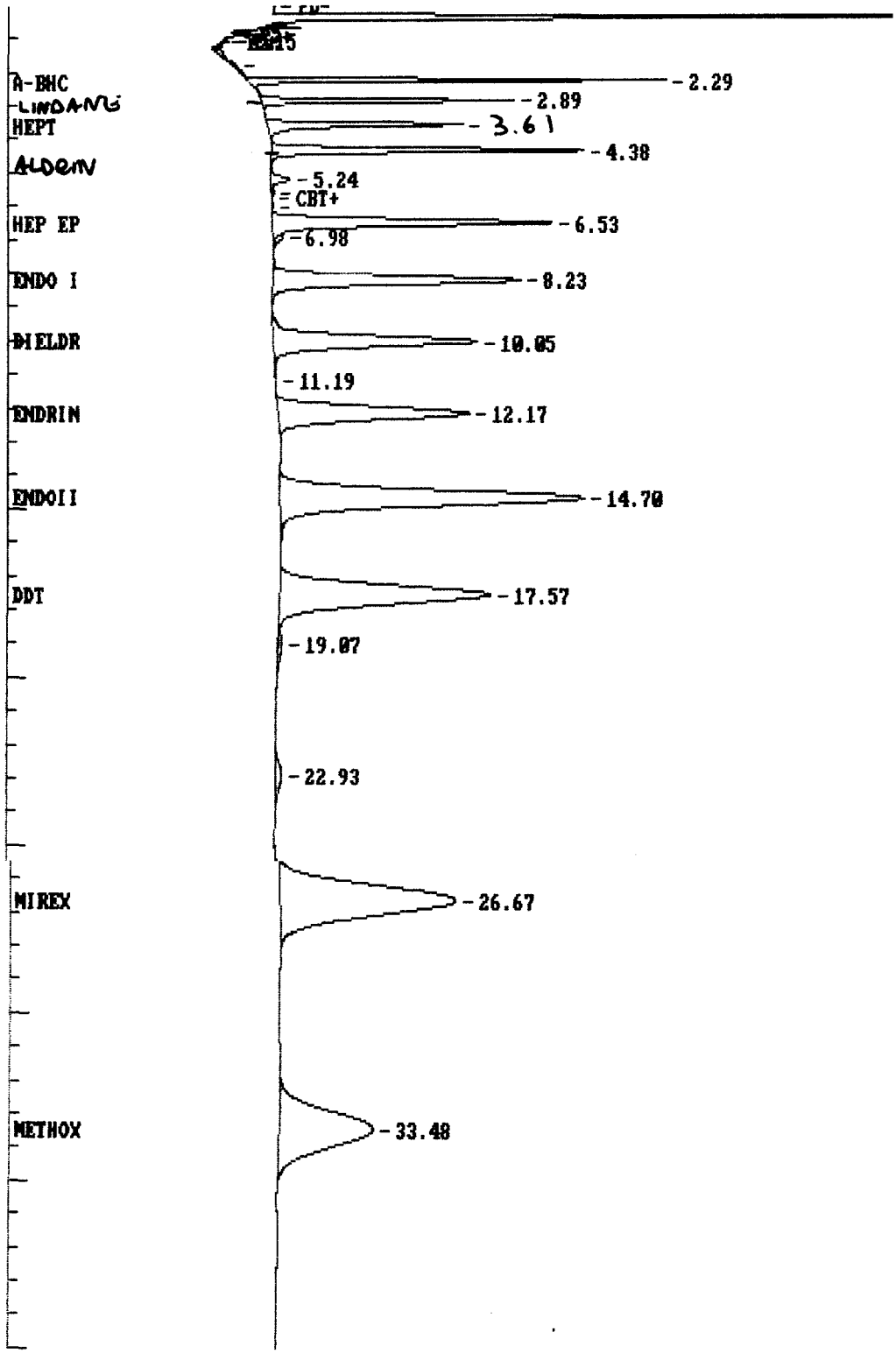
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.29	A-BHC	0.0062	3.1791%	530280	102248	5.2	1	20	20	-.1305	1.1614E-08
4	2.89	LINDANE	0.0050	2.5980%	409409	62058	6.6	1	20	20	0	1.2294E-08
5	3.61	HEPT	0.0050	2.5681%	448116	47972	9.3	1	20	20	.2003	1.1102E-08
6	4.38	ALDRIN	0.0100	5.1738%	763406	76719	10.0	1	20	20	-.1046	1.3130E-08
10	6.53	HEP EPOX	0.0130	6.7052%	1032342	68648	15.0	3	20	20	0	1.2583E-08
12	8.23	ENDO I	0.0152	7.8524%	1117237	60658	18.4	1	20	20	0	1.3616E-08
13	10.05	DIELDRIN	0.0152	7.8654%	1150800	50183	22.9	3	20	20	0	1.3241E-08
15	12.17	ENDRIN	0.0259	13.3821%	1234260	47151	26.2	1	20	20	0	2.1005E-08
16	14.70	ENDOII	0.0295	15.2063%	2424267	74538	32.5	1	20	20	0	1.2152E-08
17	17.57	DDT	0.0289	14.9260%	2001792	51969	38.5	3	20	20	0	1.4445E-08
20	26.67	MIREX	1.0000	0.0000%	2665555	43388	61.4	1	20	20	0	3.7516E-07
21	33.48	METHOXYCHLOR	0.0398	20.5437%	1706741	23106	73.9	1	20	20	.0108	2.3319E-08

TOTAL AMOUNT = 0.1937

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC024.PTS Printed on 11-16-1990 at 14:22:32
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-07-1990 09:12:37 Version 4.1 **********************
* Sample Name: PEST A L1                          Data File: W:1IC5        *
* Date: 11-06-1990 18:10:33 Method: W:1PESTA  11-07-1990 09:11:53  #  168 *
* Interface: 0   Cycle#:  5    Operator SKF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *  *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00
Area reject: 0
Amount injected: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

Ending retention time: 40.00
One sample per 1.002 sec.
Dilution factor: 1.00

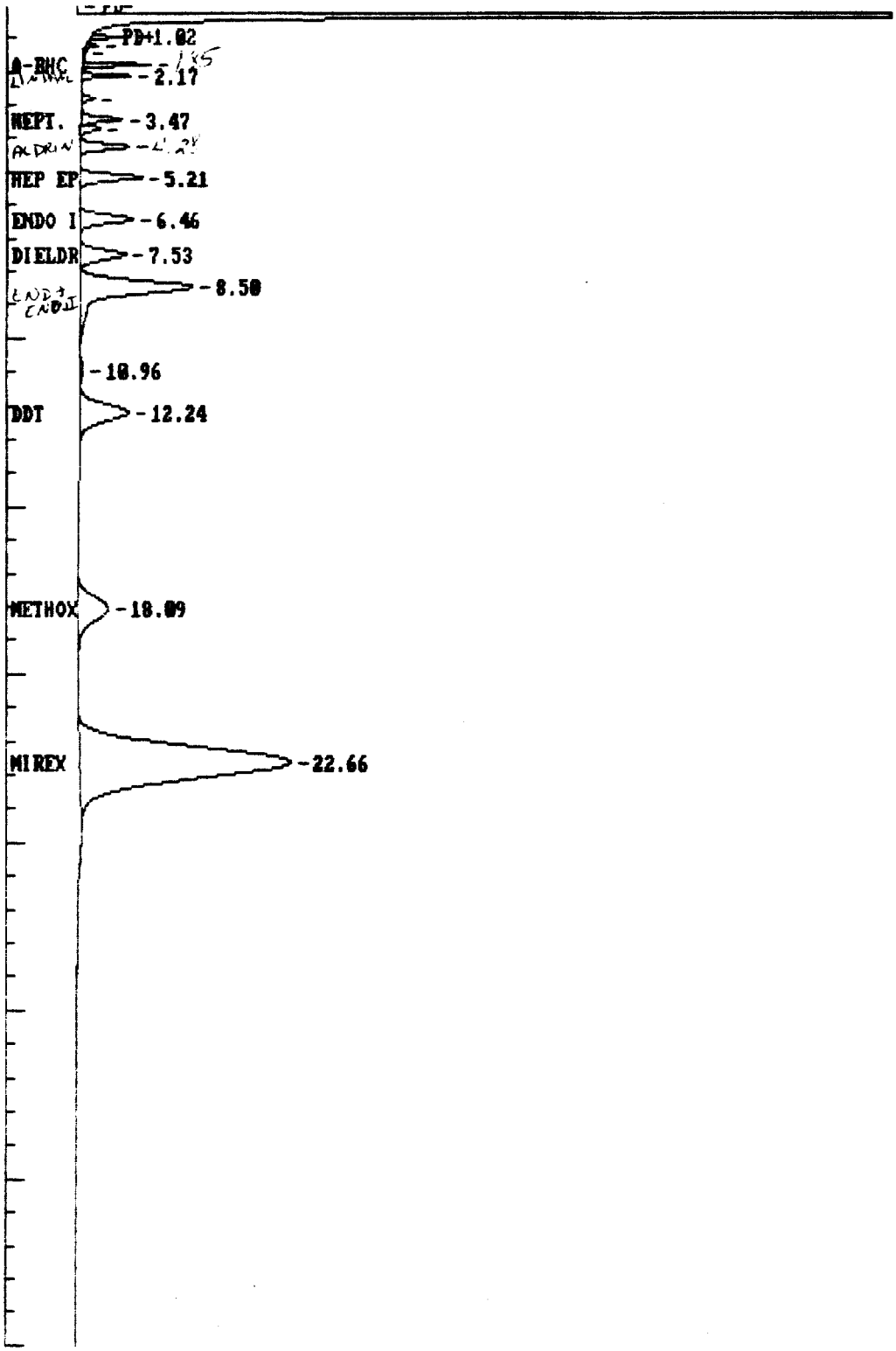
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Kml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.85	A-BHC	0.0015	3.4232%	94649	16912	5.6	2	17	17	0	1.6278E-08
5	2.17	LINDANE	0.0012	2.7725%	77339	11976	6.5	2	17	17	0	1.6134E-08
7	3.47	HEPT.	0.0010	2.2938%	111630	10170	11.0	2	17	17	.3282	9.2480E-09
9	4.28	ALDRIN	0.0025	5.5321%	155050	12386	12.5	2	17	17	-.3570	1.6058E-08
10	5.21	HEP EPOX	0.0028	6.2704%	236122	15475	15.3	1	17	17	.1684	1.1952E-08
11	6.46	ENDO I	0.0035	7.8064%	246757	13310	18.5	2	17	17	0	1.4238E-08
12	7.53	DIELDRIN	0.0037	8.1536%	243980	11318	21.6	2	17	17	.1444	1.5041E-08
13	8.50	EN + EN II	0.0127	28.2991%	850206	27730	30.7	2	17	17	0	1.4981E-08
15	12.24	DDT	0.0080	17.7208%	421996	11924	35.4	2	17	17	-.1429	1.8900E-08
16	18.09	METHOXYCHLOR	0.0080	17.7281%	385172	7521	51.2	1	17	17	0	2.0715E-08
17	22.66	MIREX	1.0000	0.0000%	3396016	51821	65.5	1	17	17	0	2.9446E-07

TOTAL AMOUNT = 0.0450

SB 11/7/90

SECONDARY COLUMN

Data File = W:1IC5.PTS Printed on 11-07-1990 at 09:12:59
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/9/90

SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-07-1990 09:13:50 Version 4.1 **********************
* Sample Name: PEST A L2                        Data File: W:1IC6          *
* Date: 11-06-1990 18:54:45 Method: W:1PESTA  11-07-1990 09:11:53  #  168 *
* Interface: 0   Cycle#:  6    Operator SKF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 — Ending retention time: 40.00
Area reject: 0 — One sample per 1.002 sec.
Amount injected: 1.00 — Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

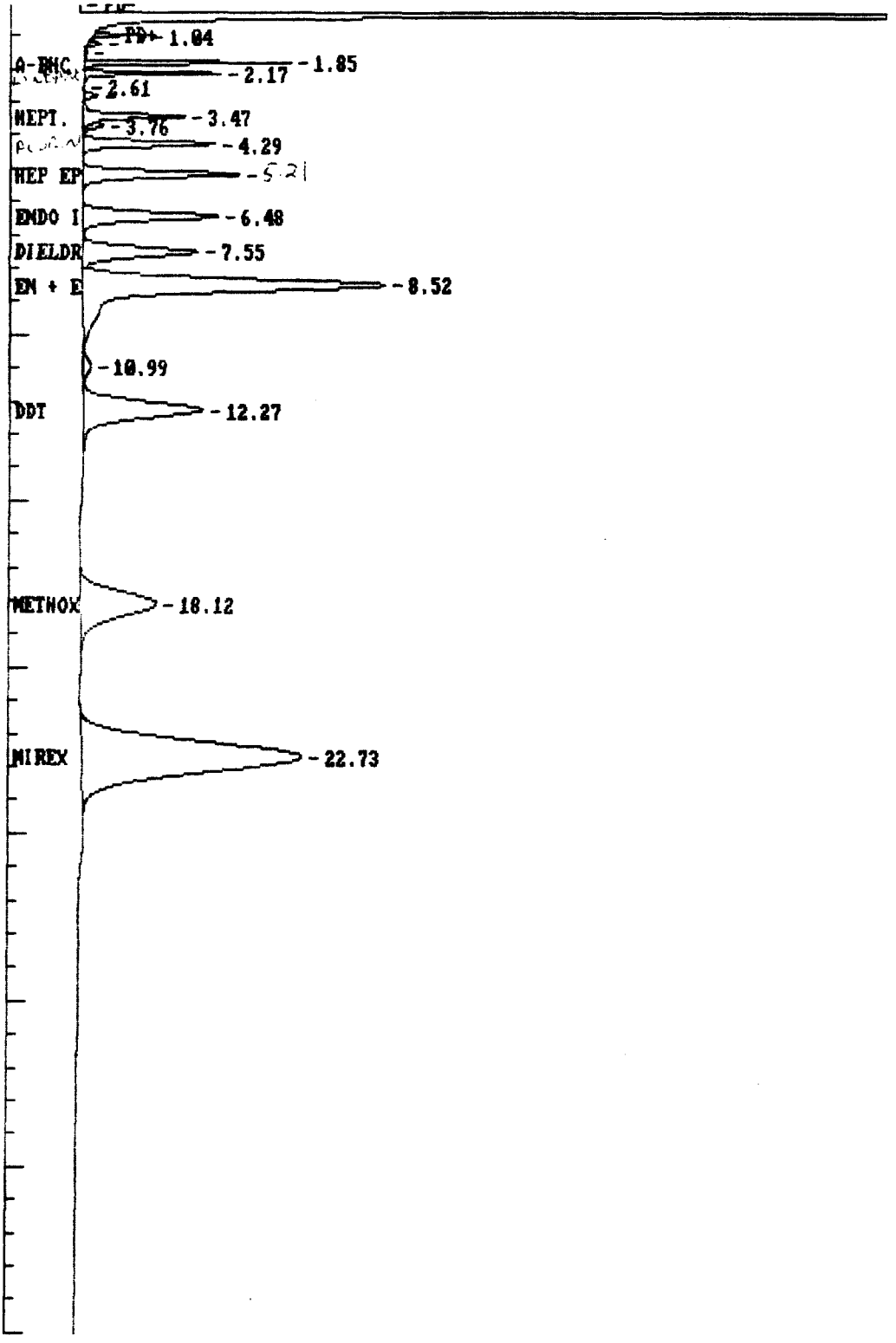
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.85	A-BHC	0.0030	3.1415%	266271	51240	5.2	2	18	18	-.3831	1.1206E-08
5	2.17	LINDANE	0.0025	2.5879%	211030	33917	6.2	3	18	18	-.2529	1.1648E-08
8	3.47	HEPT.	0.0026	2.7008%	287807	25178	11.4	3	18	18	0	8.9134E-09
10	4.29	ALDRIN	0.0049	5.1905%	395311	32687	12.1	2	18	18	-.2618	1.2472E-08
11	5.21	HEP EPOX	0.0062	6.5428%	581234	38820	15.0	1	18	18	-.1258	1.0692E-08
12	6.48	ENDO I	0.0075	7.8623%	610420	33500	18.2	2	18	18	0	1.2234E-08
13	7.55	DIELDRIN	0.0075	7.8537%	600698	28447	21.1	2	18	18	0	1.2418E-08
14	8.52	EN + EN II	0.0273	28.7577%	2224967	74874	29.7	2	18	18	0	1.2277E-08
16	12.27	DDT	0.0149	15.6440%	1020346	29507	34.6	2	18	18	-.1648	1.4563E-08
17	18.12	METHOXYCHLOR	0.0187	19.7189%	981779	18810	52.2	1	18	18	0	1.9077E-08
18	22.73	MIREX	1.0000	0.0000%	3573109	54488	65.6	1	18	18	0	2.7987E-07

TOTAL AMOUNT = 0.0950

SB 11/9/90

SECONDARY COLUMN

Data File = W:1106.PTS Printed on 11-07-1990 at 09:14:14
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



9/19/90

SECONDARY COLUMN

****** INTERNAL STANDARD TABLE ******

********** 11-07-1990 09:15:07 Version 4.1 **********

* Sample Name: PEST A L3 Data File: W:1IC7 *
* Date: 11-06-1990 19:38:54 Method: W:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 7 Operator SKF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: CONFIRMATORY COLUMN LPT1: * * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

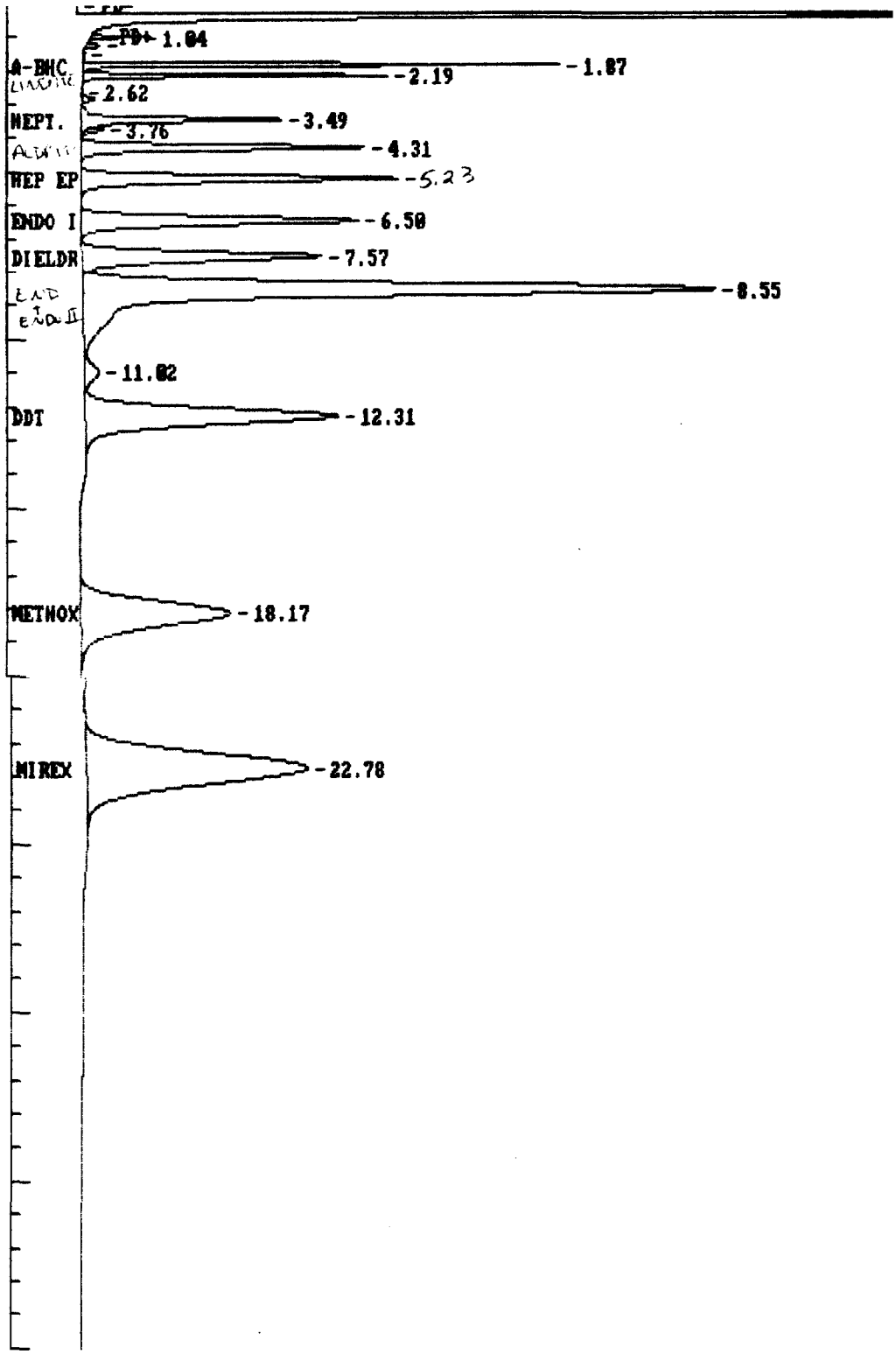
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.87	A-BHC	0.0058	3.1923%	589905	117091	5.0	2	18	18	.2932	9.8479E-09
5	2.19	LINDANE	0.0047	2.5581%	444389	74691	5.9	2	18	18	.2932	1.0476E-08
8	3.49	HEPT.	0.0048	2.6385%	533881	49049	10.9	3	18	18	.2932	8.9937E-09
10	4.31	ALDRIN	0.0093	5.1272%	810282	69583	11.6	2	18	18	0	1.1515E-08
11	5.23	HEP EPOX	0.0120	6.5727%	1139754	77640	14.7	1	18	18	0	1.0494E-08
12	6.50	ENDO I	0.0143	7.8455%	1208964	67753	17.8	2	18	18	0	1.1810E-08
13	7.57	DIELDRIN	0.0141	7.7387%	1196388	58531	20.4	2	18	18	0	1.1771E-08
14	8.55	EN + EN II	0.0527	28.9448%	4518563	154911	29.2	2	18	18	0	1.1657E-08
16	12.31	DDT	0.0277	15.2389%	2088394	61970	33.7	2	18	18	-.1133	1.3278E-08
17	18.17	METHOXYCHLOR	0.0367	20.1433%	1934310	36683	52.7	1	18	18	0	1.8951E-08
18	22.78	MIREX	1.0000	0.0000%	3556930	54229	65.6	1	18	18	0	2.8114E-07

TOTAL AMOUNT = 0.1820

11/9/90

SECONDARY COLUMN

Data File = W:1IC7.PTS Printed on 11-07-1990 at 09:15:31
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



9/19/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 09:16:28 Version 4.1 **********

* Sample Name: PEST A L4 Data File: W:1IC8 *
* Date: 11-06-1990 20:23:02 Method: W:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 8 Operator SKF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

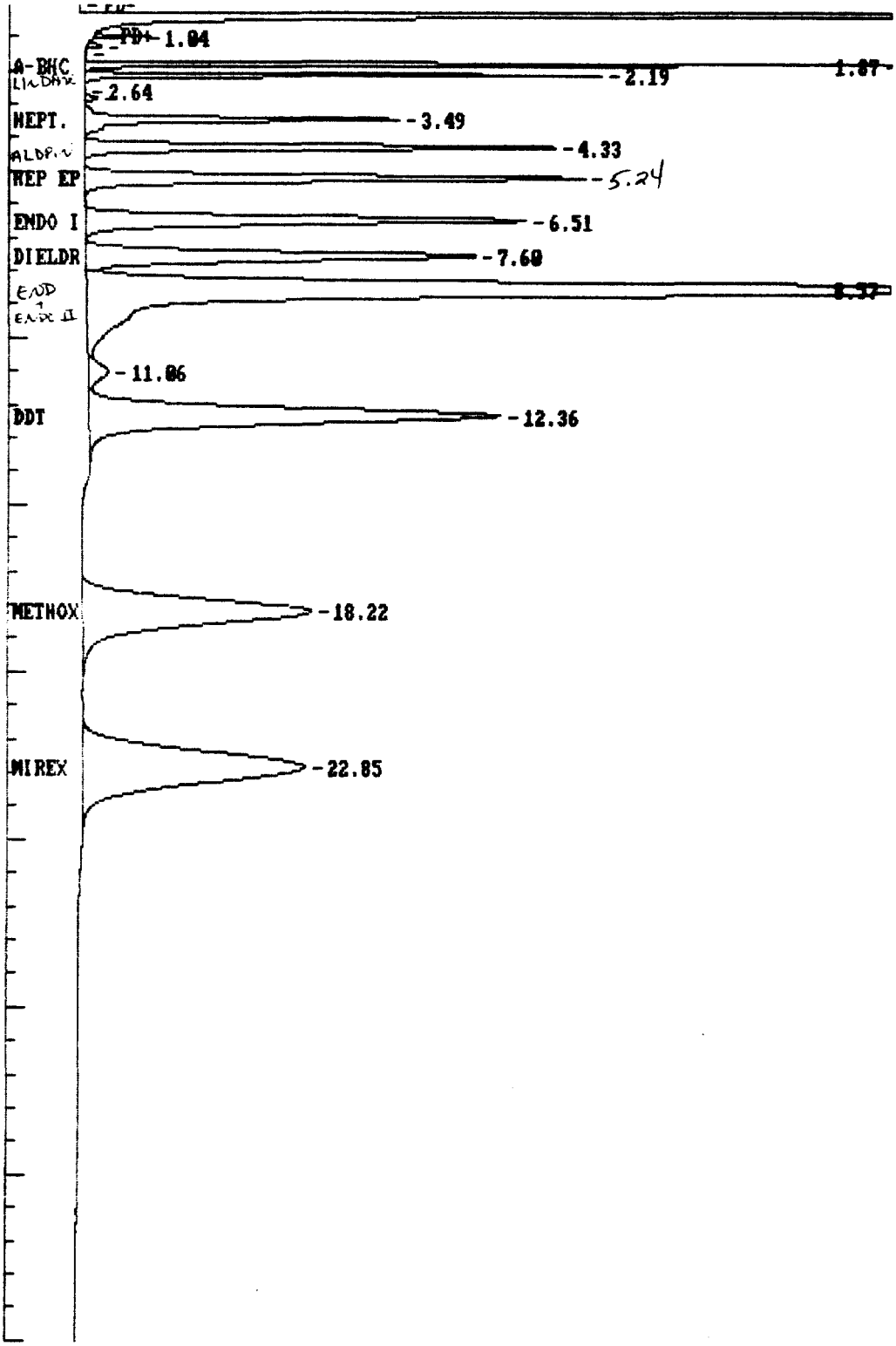
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.87	A-BHC	0.0093	3.2961%	999513	201302	5.0	2	17	17	0	9.3087E-09
5	2.19	LINDANE	0.0074	2.6297%	745402	127319	5.9	2	17	17	0	9.9587E-09
8	3.49	HEPT.	0.0076	2.6868%	848337	77360	11.0	2	17	17	0	8.9402E-09
9	4.33	ALDRIN	0.0148	5.2376%	1337287	115892	11.5	2	17	17	0	1.1056E-08
10	5.24	HEP EPOX	0.0186	6.5803%	1799670	123278	14.6	2	17	17	0	1.0321E-08
11	6.51	ENDO I	0.0222	7.8620%	1922978	108497	17.7	2	17	17	0	1.1541E-08
12	7.60	DIELDRIN	0.0220	7.8092%	1930744	95788	20.2	2	17	17	.2202	1.1417E-08
13	8.57	EN + EN II	0.0815	28.8557%	7189222	245741	29.3	2	17	17	0	1.1330E-08
15	12.36	DDT	0.0428	15.1784%	3374626	101271	33.3	2	17	17	0	1.2697E-08
16	18.22	METHOXYCHLOR	0.0561	19.8642%	2994157	56365	53.1	1	17	17	0	1.8728E-08
17	22.85	MIREX	1.0000	0.0000%	3584912	54674	65.6	1	17	17	0	2.7895E-07

TOTAL AMOUNT = 0.2823

11/9/90

SECONDARY COLUMN

Data File = W:1IC8.PTS Printed on 11-07-1990 at 09:16:52
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



4
11/9/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 09:17:52 Version 4.1 **********

* Sample Name: PEST A L5 Data File: W:1IC9 *
* Date: 11-06-1990 21:07:07 Method: W:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 9 Operator SKF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	1.87	A-BHC	0.0128	3.2727%	1415033	281338	5.0	2	20	20	0	9.0188E-09
6	2.19	LINDANE	0.0102	2.6198%	1056635	179234	5.9	3	20	20	0	9.6681E-09
9	3.49	HEPT.	0.0100	2.5687%	1131374	106882	10.6	3	20	20	0	8.8533E-09
11	4.33	ALDRIN	0.0205	5.2481%	1899376	163902	11.6	2	20	20	0	1.0774E-08
12	5.24	HEP EPOX	0.0253	6.4950%	2490352	169534	14.7	3	20	20	0	1.0170E-08
14	6.51	ENDO I	0.0305	7.8339%	2694850	150645	17.9	2	20	20	0	1.1336E-08
15	7.58	DIELDRIN	0.0307	7.8841%	2751833	135921	20.2	2	20	20	0	1.1172E-08
16	8.57	EN + EN II	0.1118	28.6757%	10075164	336371	30.0	3	20	20	0	1.1099E-08
18	12.36	DDT	0.0626	16.0502%	5086271	143808	35.4	2	20	20	0	1.2305E-08
19	18.22	METHOXYCHLOR	0.0755	19.3518%	4080096	75848	53.8	2	20	20	0	1.8495E-08
20	22.85	MIREX	1.0000	0.0000%	3622938	54703	66.2	2	20	20	0	2.7602E-07

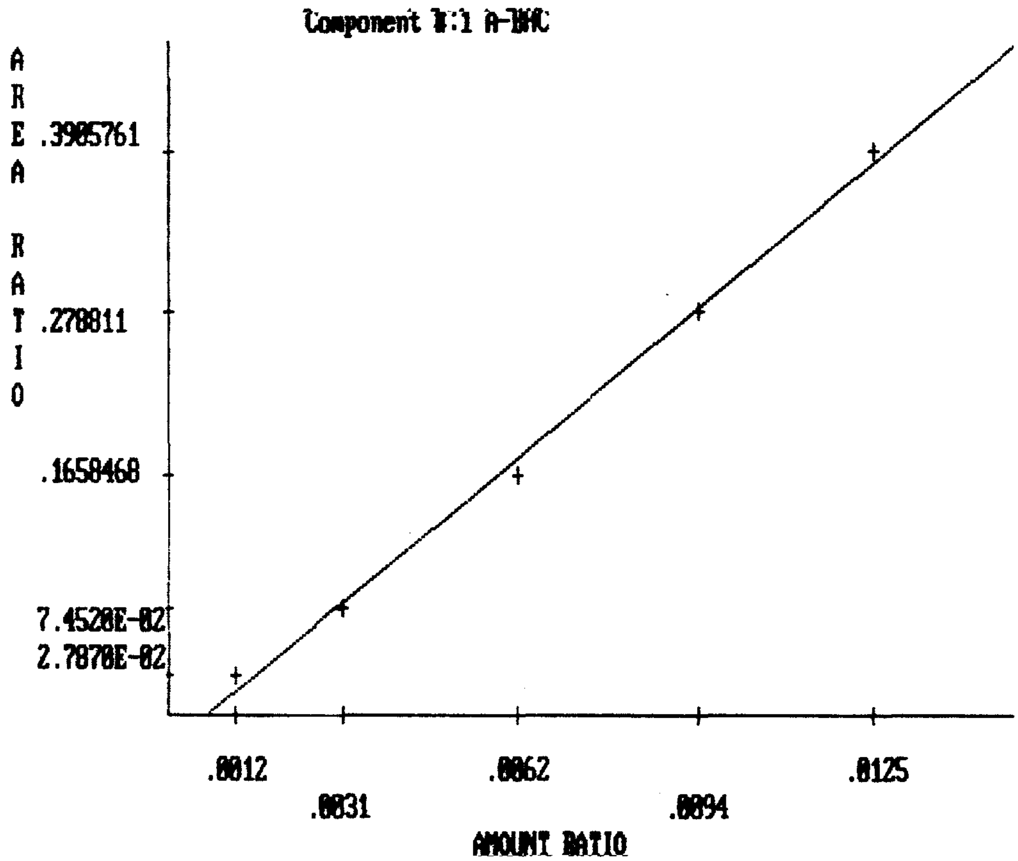
TOTAL AMOUNT = 0.3899

11/9/90

SECONDARY COLUMN

Output redirected to LPT1:

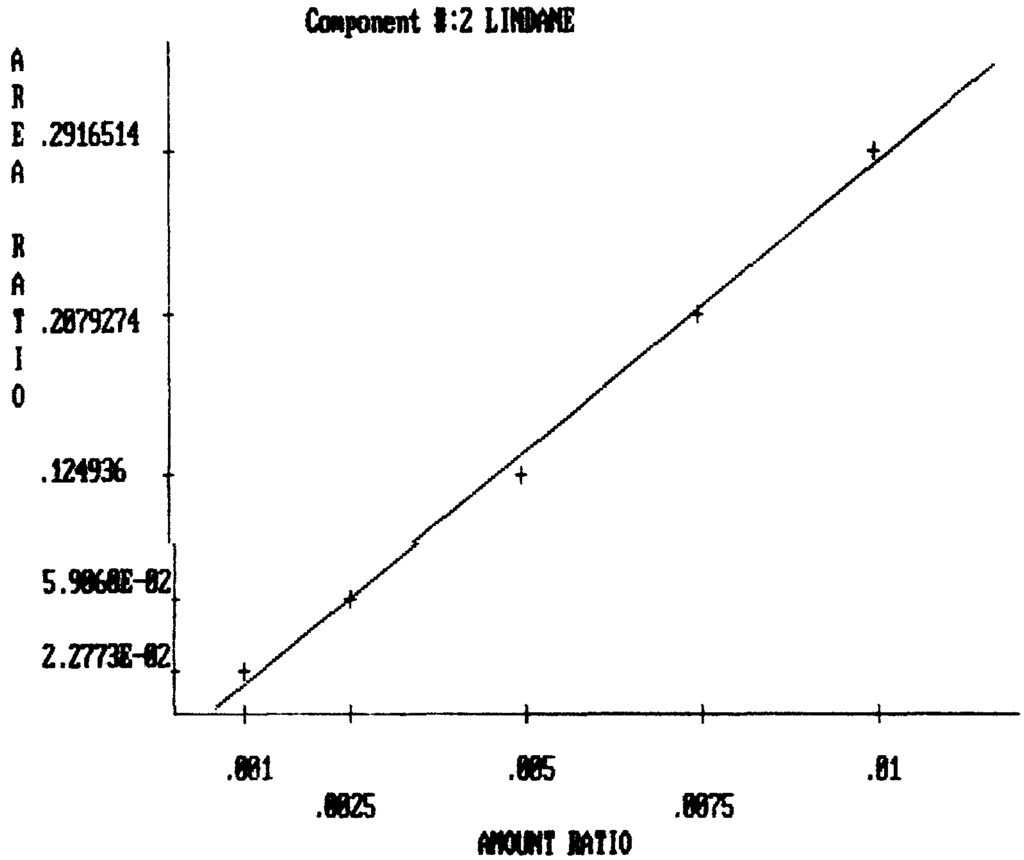
Method W:1PESTA
Sample SINGLE PHASE COLUMN - PESTICIDE MIX A
Operator DKC
Run date 11-07-1990 09:11:53 version: 168
Printed on 11-07-1990 AT 09:21:34
Straight Line fit



Component 1 = A-BHC
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0012	94649	0.0012	0.0279
2	0.0031	266271	0.0031	0.0745
3	0.0062	589905	0.0062	0.1658
4	0.0094	999513	0.0094	0.2788
5	0.0125	1415033	0.0125	0.3906

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.2323E+01 * Amt ratio + -2.1928E-02
Amt ratio = 3.0938E-02 * Area ratio + 6.7841E-04
Correlation Coefficient = 0.9957



Component 2 = LINDANE

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0010	77339	0.0010	0.0228
2	0.0025	211030	0.0025	0.0591
3	0.0050	444389	0.0050	0.1249
4	0.0075	745402	0.0075	0.2079
5	0.0100	1056635	0.0100	0.2917

Y = SLOPE * X + INTERCEPT

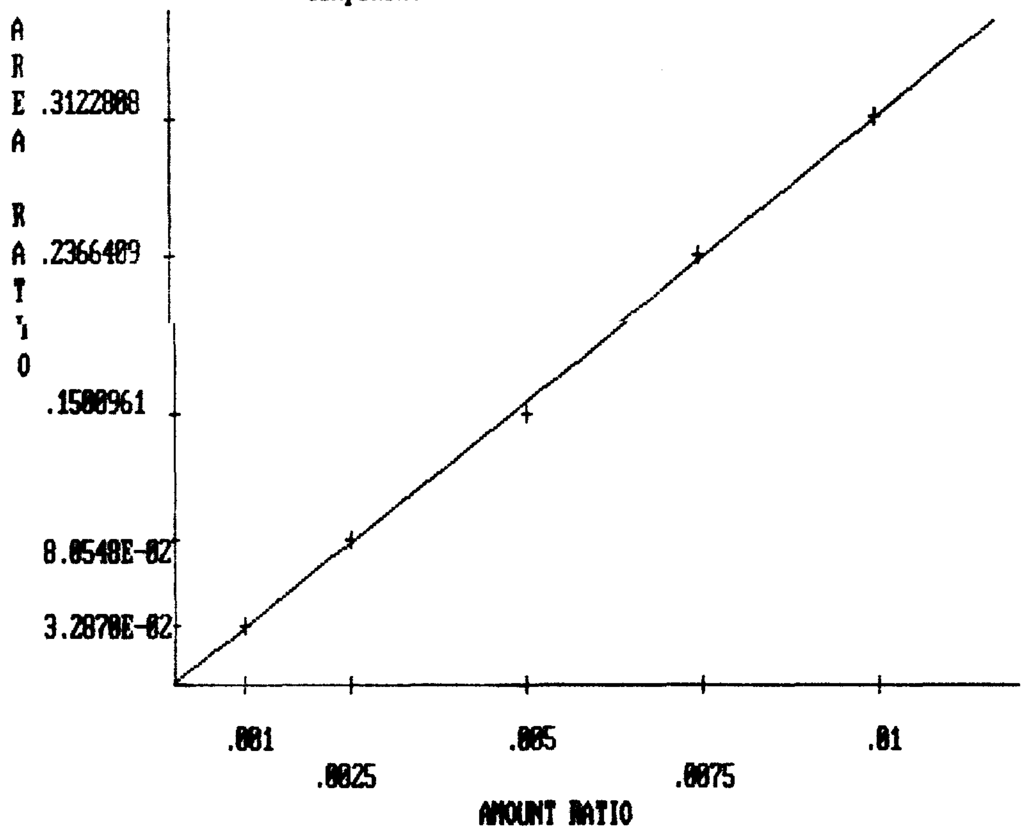
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.9982E+01 * Amt ratio + -1.4639E-02

Amt ratio = 3.3353E-02 * Area ratio + 4.8824E-04

Correlation Coefficient = 0.9956

Component #:3 HEPT.



Component 3 = HEPT.

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0010	111630	0.0010	0.0329
2	0.0025	287807	0.0025	0.0805
3	0.0050	533881	0.0050	0.1501
4	0.0075	848337	0.0075	0.2366
5	0.0100	1131374	0.0100	0.3123

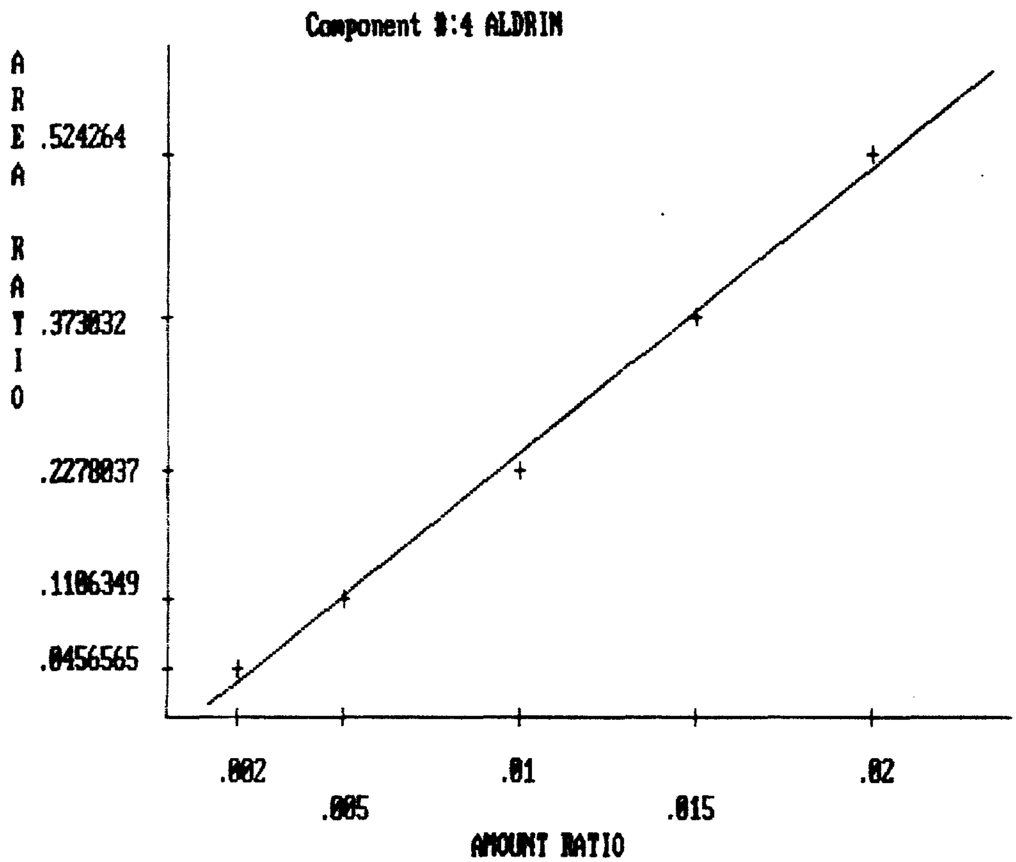
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 3.1101E+01 * Amt ratio + 7.6397E-04

Amt ratio = 3.2154E-02 * Area ratio + -2.4565E-05

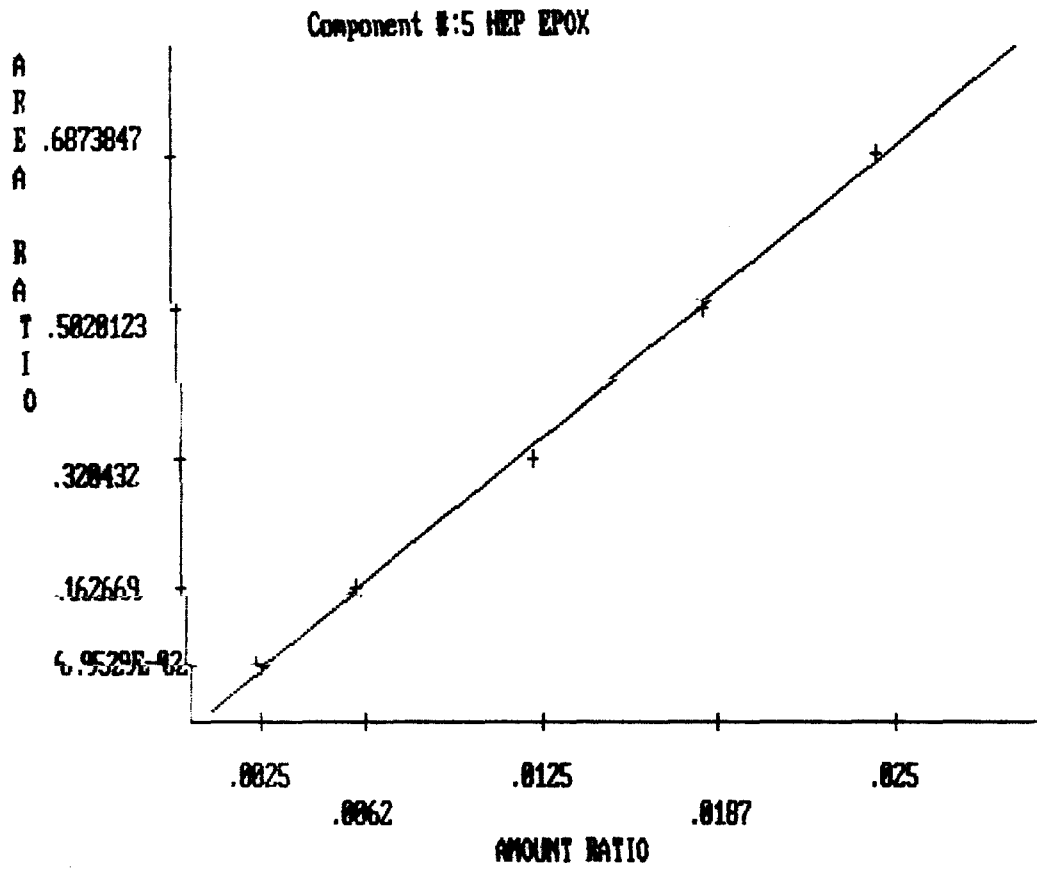
Correlation Coefficient = 0.9990



Component 4 = ALDRIN
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0020	155050	0.0020	0.0457
2	0.0050	395311	0.0050	0.1106
3	0.0100	810282	0.0100	0.2278
4	0.0150	1337287	0.0150	0.3730
5	0.0200	1899376	0.0200	0.5243

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.6627E+01 * Amt ratio + -2.0640E-02
Amt ratio = 3.7556E-02 * Area ratio + 7.7515E-04
Correlation Coefficient = 0.9955



Component 5 = HEP EPOX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	236122	0.0025	0.0695
2	0.0062	581234	0.0062	0.1627
3	0.0125	1139754	0.0125	0.3204
4	0.0187	1799670	0.0187	0.5020
5	0.0250	2490352	0.0250	0.6874

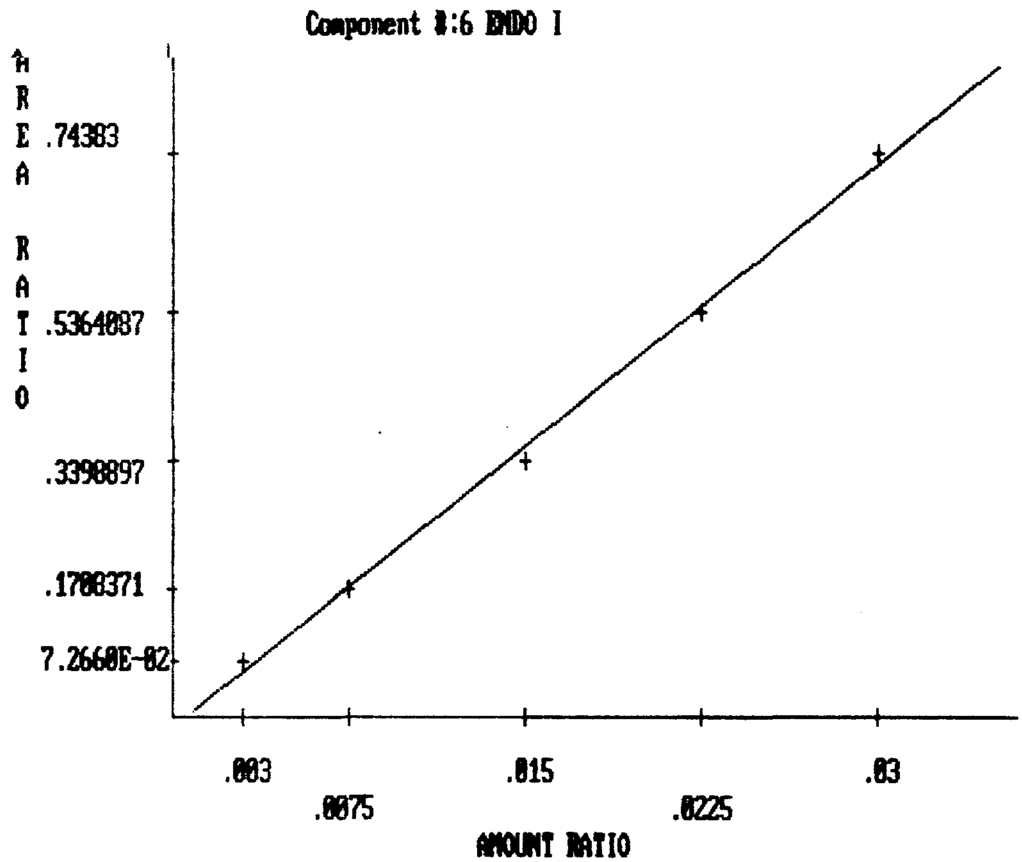
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.7454E+01 * Amt ratio + -7.9500E-03

Amt ratio = 3.6424E-02 * Area ratio + 2.8957E-04

Correlation Coefficient = 0.9985



Component 6 = ENDO I

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	246757	0.0030	0.0727
2	0.0075	610420	0.0075	0.1708
3	0.0150	1208964	0.0150	0.3399
4	0.0225	1922978	0.0225	0.5364
5	0.0300	2694850	0.0300	0.7438

Y = SLOPE * X + INTERCEPT

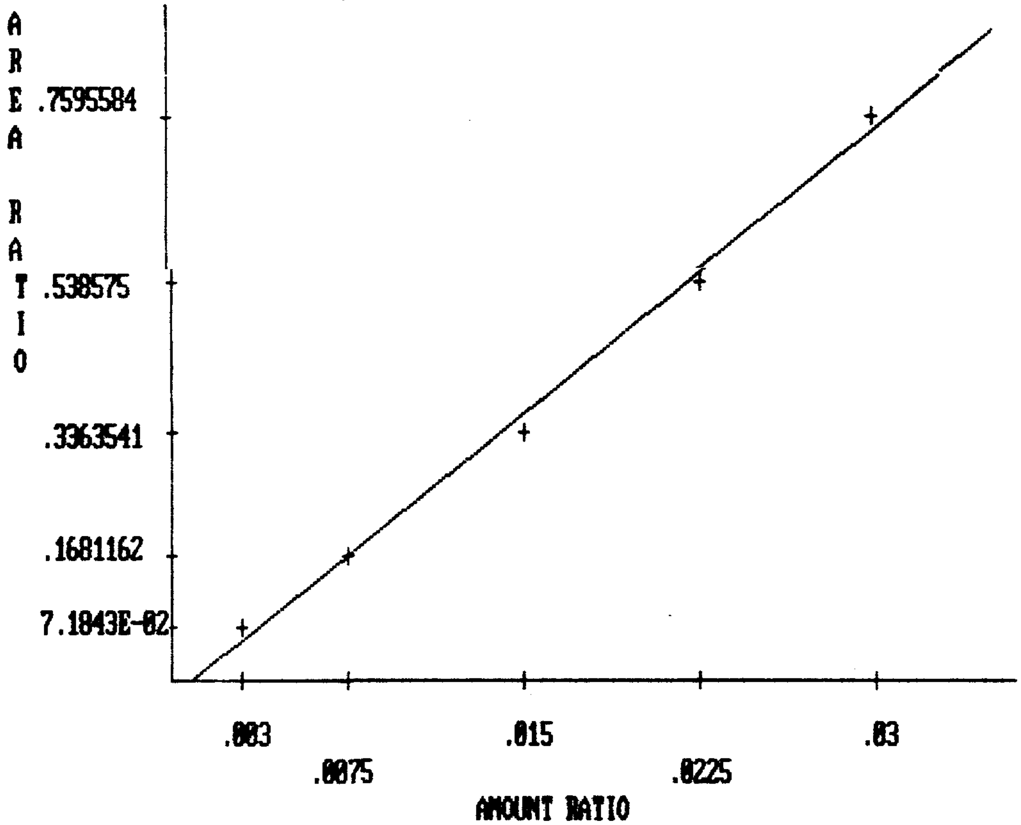
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.4826E+01 * Amt ratio + -1.4564E-02

Amt ratio = 4.0280E-02 * Area ratio + 5.8662E-04

Correlation Coefficient = 0.9975

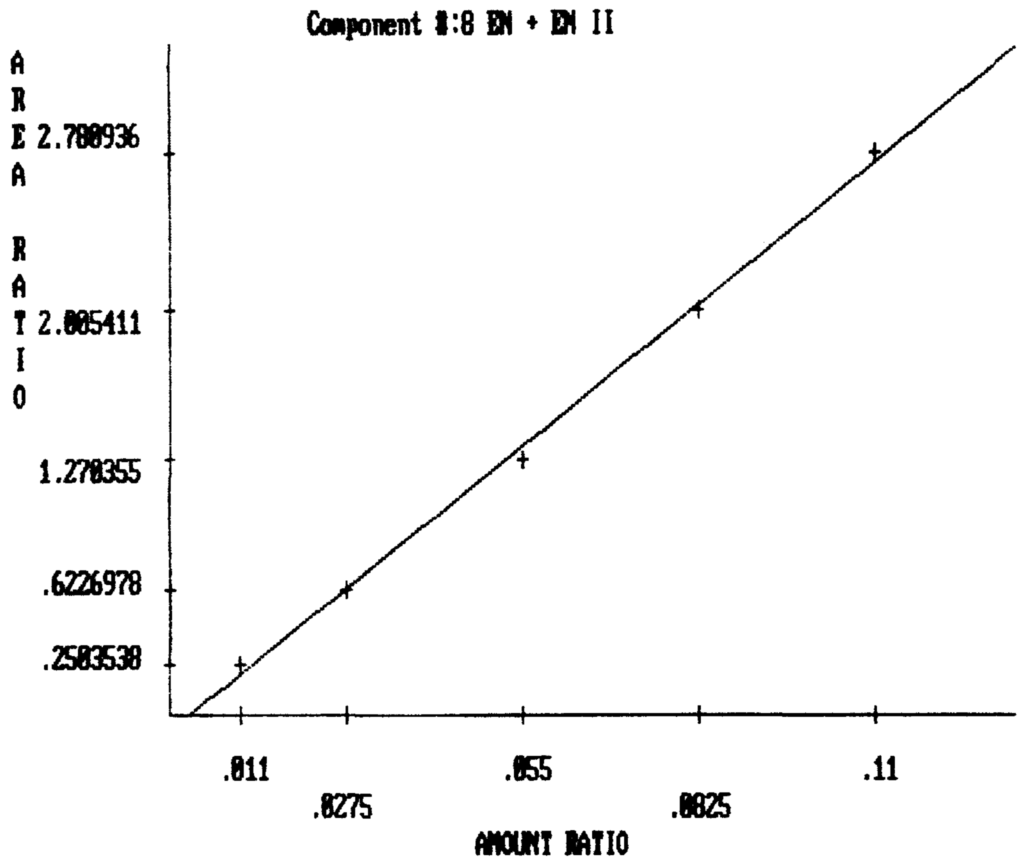
Component #:7 DIELDRIN



Component 7 = DIELDRIN
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	243981	0.0030	0.0718
2	0.0075	600698	0.0075	0.1681
3	0.0150	1196388	0.0150	0.3364
4	0.0225	1930744	0.0225	0.5386
5	0.0300	2751833	0.0300	0.7596

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.5401E+01 * Amt ratio + -2.1372E-02
Amt ratio = 3.9368E-02 * Area ratio + 8.4136E-04
Correlation Coefficient = 0.9957



Component 8 = EN + EN II
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0110	850206	0.0110	0.2504
2	0.0275	2224967	0.0275	0.6227
3	0.0550	4518563	0.0550	1.2704
4	0.0825	7189222	0.0825	2.0054
5	0.1100	10075160	0.1100	2.7809

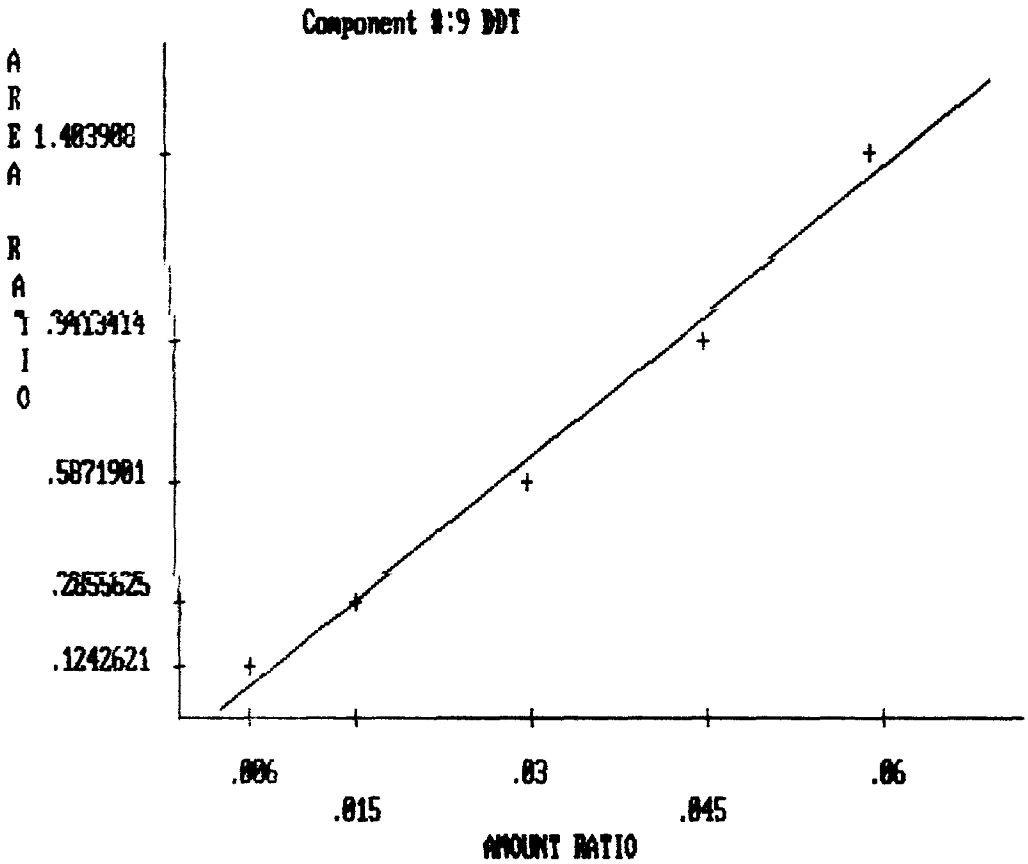
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.5540E+01 * Amt ratio + -7.4937E-02

Amt ratio = 3.9154E-02 * Area ratio + 2.9341E-03

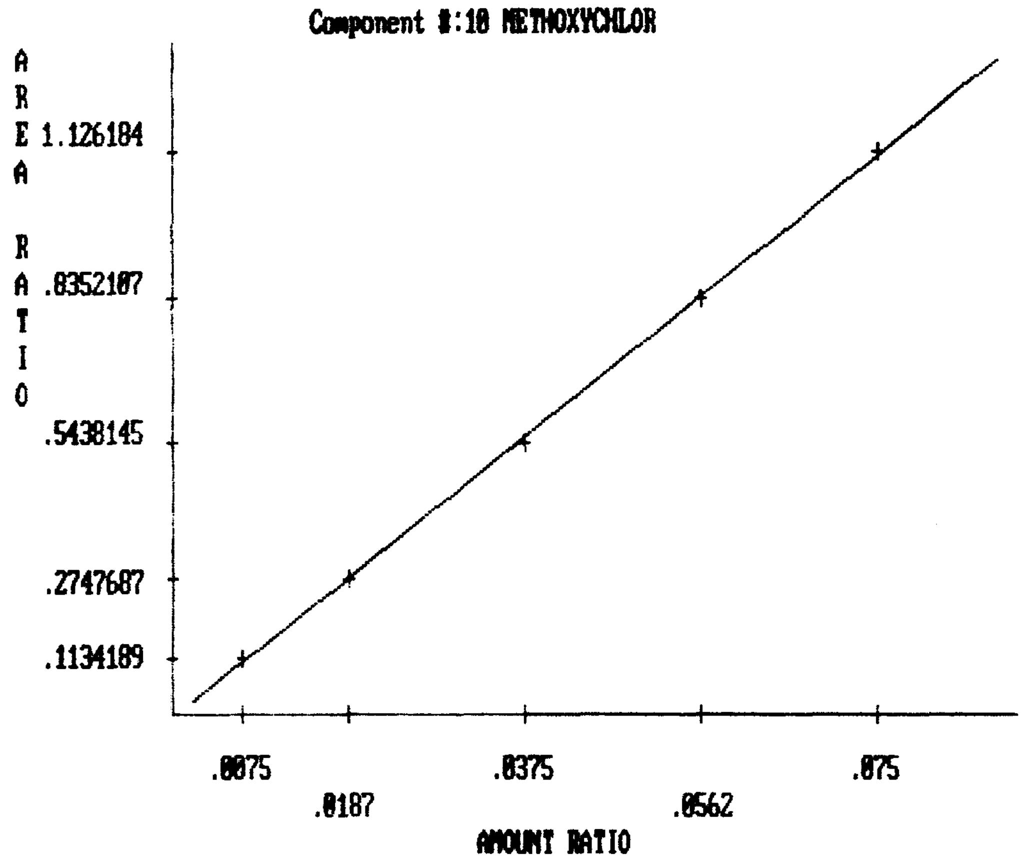
Correlation Coefficient = 0.9980



Component 9 = DDT
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0060	421996	0.0060	0.1243
2	0.0150	1020346	0.0150	0.2856
3	0.0300	2088594	0.0300	0.5872
4	0.0450	3374626	0.0450	0.9413
5	0.0600	5086271	0.0600	1.4039

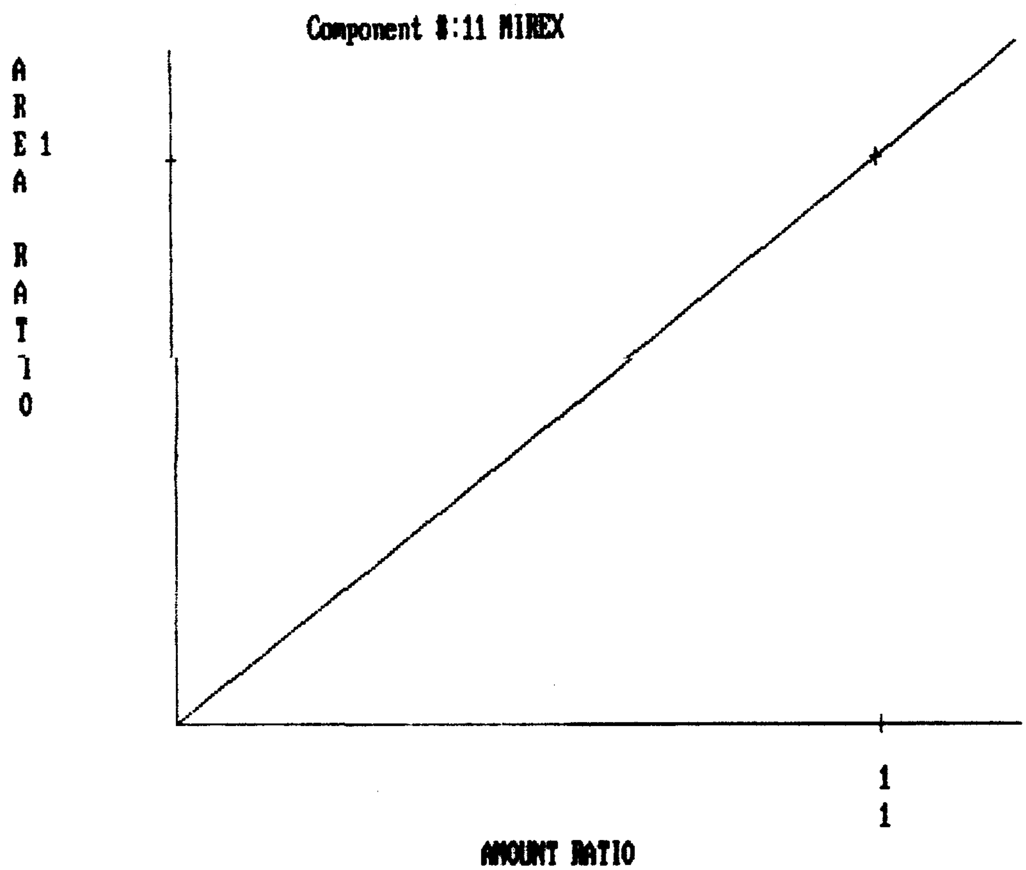
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.3432E+01 * Amt ratio + -6.2619E-02
Amt ratio = 4.2677E-02 * Area ratio + 2.6724E-03
Correlation Coefficient = 0.9895



Component 10 = METHOXYCHLOR
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0075	385172	0.0075	0.1134
2	0.0187	981779	0.0187	0.2748
3	0.0375	1934310	0.0375	0.5438
4	0.0562	2994157	0.0562	0.8352
5	0.0750	4080096	0.0750	1.1262

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.5008E+01 * Amt ratio + -6.3259E-03
Amt ratio = 6.6632E-02 * Area ratio + 4.2151E-04
Correlation Coefficient = 0.9996



Component 11 = MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	3396016	1.0000	1.0000
2	1.0000	3573109	1.0000	1.0000
3	1.0000	3556930	1.0000	1.0000
4	1.0000	3584912	1.0000	1.0000
5	1.0000	3622938	1.0000	1.0000

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.0000E+00 * Amt ratio + 0.0000E+00
Amt ratio = 1.0000E+00 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000

SECONDARY COLUMN

Output redirected to LPT1:
PEST A L3 Processed: 11-12-1990 15:02:00, segment 5, cycle 5
RAW DATA SAVED IN FILE U:1ALC05.PTS Second Channel Stored in U:2ALC05.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-12-1990 15:02:10 Version 4.1 **********
* Sample Name: PEST A L3 #3 Data File: U:1ALC05 *
* Date: 11-12-1990 15:02:06 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 5 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *DKC
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

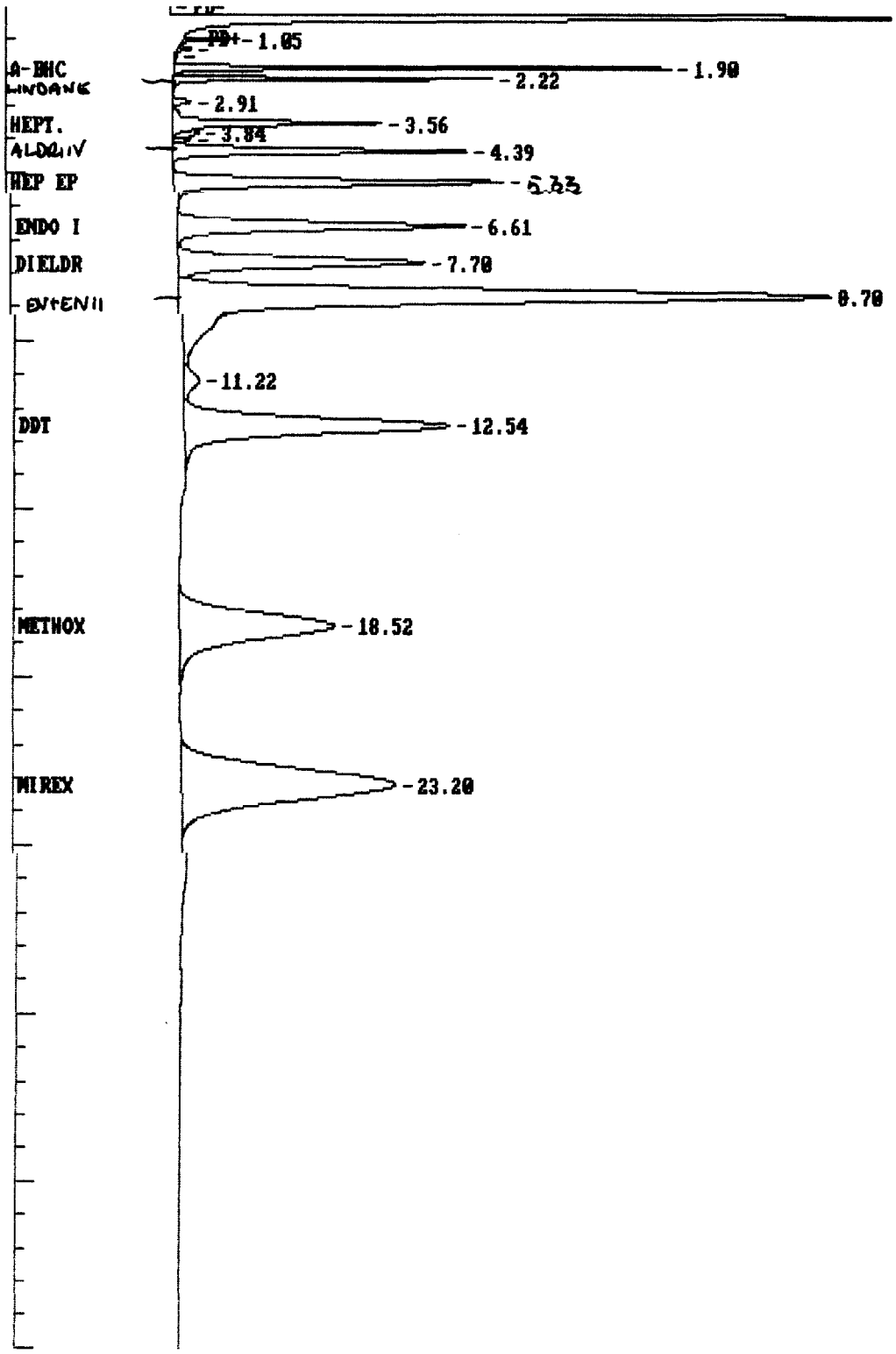
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.90	A-BHC	0.0063	3.1803%	622383	121933	5.1	2	18	18	.2468	1.0052E-08
5	2.22	LINDANE	0.0050	2.5342%	465442	78195	6.0	2	18	18	0	1.0710E-08
7	3.56	HEPT.	0.0053	2.6764%	567903	51281	11.1	3	18	18	.3730	9.2707E-09
10	4.39	ALDRIN	0.0101	5.1314%	856610	72166	11.9	2	18	18	0	1.1784E-08
11	5.33	HEP EPOX	0.0129	6.5665%	1196795	80866	14.8	1	18	18	0	1.0793E-08
12	6.61	ENDO I	0.0155	7.8684%	1276280	70513	18.1	2	18	18	0	1.2128E-08
13	7.70	DIELDRIN	0.0152	7.7157%	1257153	60460	20.8	2	18	18	0	1.2073E-08
14	8.70	EN + EN II	0.0570	28.9531%	4762910	160203	29.7	2	18	18	0	1.1958E-08
16	12.54	DDT	0.0301	15.3076%	2219609	64953	34.2	2	18	18	0	1.3566E-08
17	18.52	METHOXYCHLOR	0.0395	20.0664%	2023259	37875	53.4	1	18	18	.1130	1.9510E-08
18	23.20	MIREX	1.0000	0.0000%	3452216	52513	65.7	1	18	18	0	2.8967E-07

TOTAL AMOUNT = 0.1967

LM 11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC05.ATB
Data File = U:1ALC05.PTS Printed on 11-12-1990 at 15:02:34
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
Output redirected to LPT1:
PEST A L3 Processed: 11-13-1990 15:59:37, segment 9, cycle 14
RAW DATA SAVED IN FILE U:1ALC014.PTS Second Channel Stored in U:2ALC014.PTS

****** INTERNAL STANDARD TABLE ******

********** 11-13-1990 15:59:48 Version 4.1 **********
* Sample Name: PEST A L3 #4 Data File: U:1ALC014 *
* Date: 11-13-1990 15:59:43 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 14 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS * DKC
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

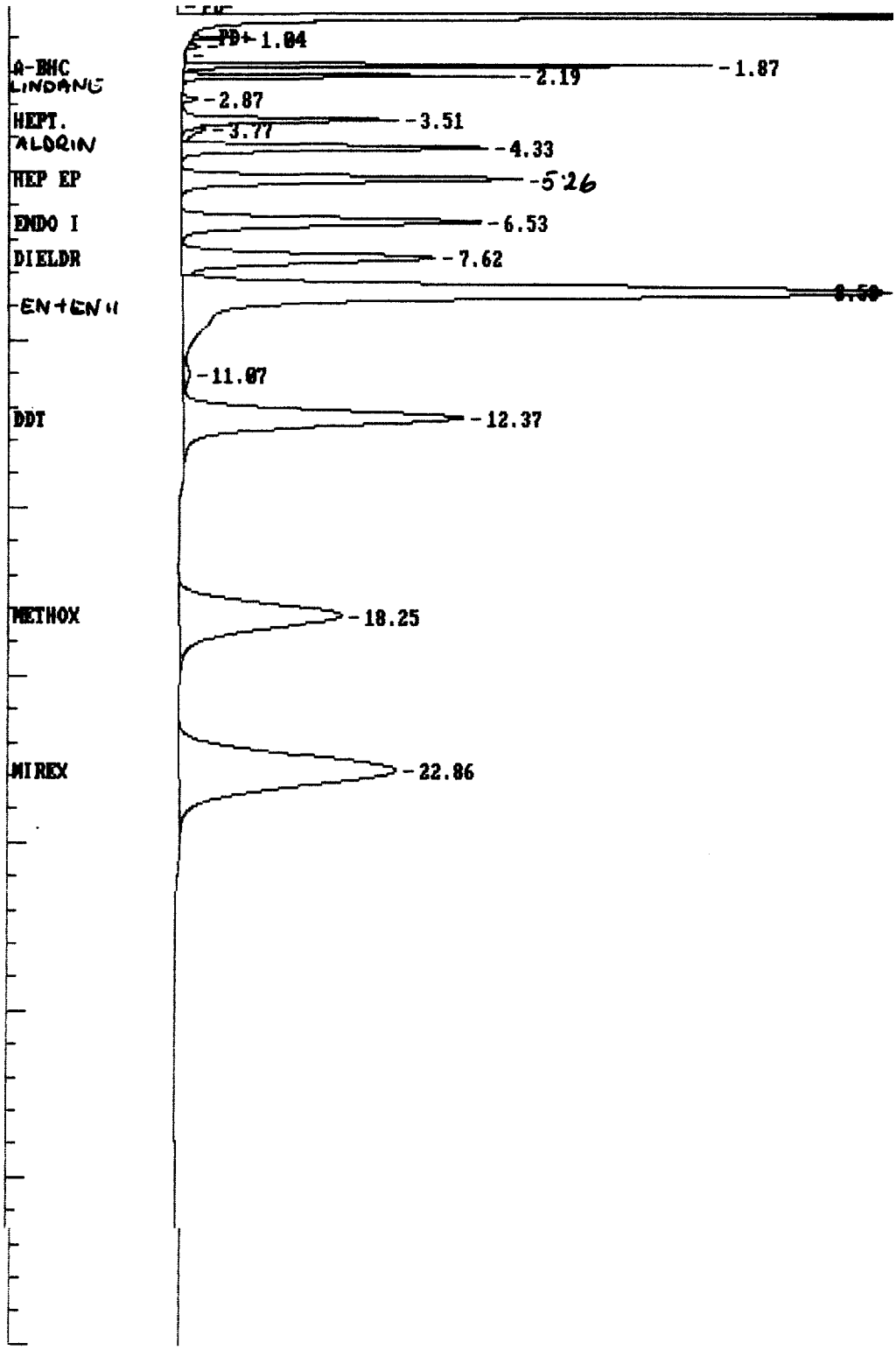
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.87	A-BHC	0.0064	3.1494%	644648	129768	5.0	2	17	17	0	9.9156E-09
5	2.19	LINDANE	0.0051	2.5123%	482535	81221	5.9	2	17	17	-.0730	1.0567E-08
7	3.51	HEPT.	0.0052	2.5598%	566668	53150	10.7	3	17	17	.4050	9.1682E-09
9	4.33	ALDRIN	0.0102	5.0410%	878870	75246	11.7	2	17	17	-.0730	1.1641E-08
10	5.26	HEP EPOX	0.0131	6.4585%	1228405	83759	14.7	1	17	17	.2452	1.0671E-08
11	6.53	ENDO I	0.0158	7.7959%	1320293	73769	17.9	2	17	17	.1831	1.1984E-08
12	7.62	DIELDRIN	0.0153	7.5425%	1282695	62529	20.5	2	17	17	.3671	1.1934E-08
13	8.58	EN + EN II	0.0601	29.6207%	5097874	175286	29.1	3	17	17	.1217	1.1793E-08
15	12.37	DDT	0.0310	15.2559%	2313913	68847	33.6	2	17	17	0	1.3381E-08
16	18.25	METHOXYCHLOR	0.0407	20.0639%	2111149	40083	52.7	1	17	17	.1101	1.9289E-08
17	22.86	MIREX	1.0000	0.0000%	3490569	53441	65.3	1	17	17	0	2.8649E-07

TOTAL AMOUNT = 0.2030

KM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALCO14.ATB
Data File = U:1ALCO14.PTS Printed on 11-13-1990 at 16:00:12
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
PEST A L3 Processed: 11-13-1990 22:36:38, segment 3, cycle 23
RAW DATA SAVED IN FILE U:1ALC023.PTS Second Channel Stored in U:2ALC023.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 22:36:49 Version 4.1 **********
* Sample Name: PEST A L3 #5 Data File: U:1ALC023 *
* Date: 11-13-1990 22:36:44 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 23 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

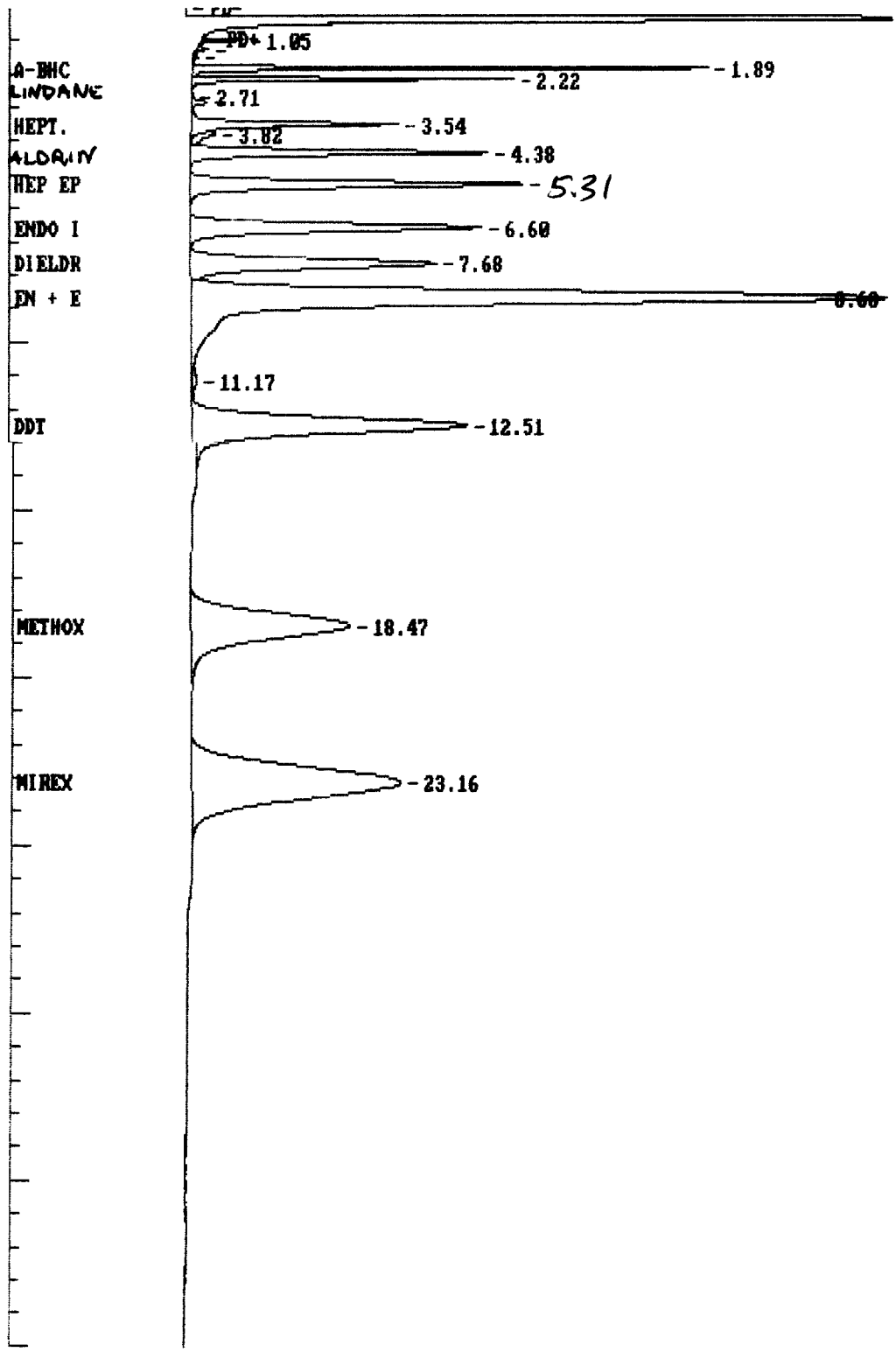
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.89	A-BHC	0.0065	3.1610%	636240	126714	5.0	2	18	18	-.4892	1.0207E-08
5	2.22	LINDANE	0.0052	2.5222%	476285	79146	6.0	2	18	18	.1359	1.0879E-08
8	3.54	HEPT.	0.0052	2.5408%	552050	51093	10.8	3	18	18	0	9.4550E-09
10	4.38	ALDRIN	0.0104	5.0422%	863698	73301	11.8	2	18	18	-.2274	1.1993E-08
11	5.31	HEP EPOX	0.0133	6.4643%	1207155	81755	14.8	1	18	18	-.1134	1.1001E-08
12	6.60	ENDO I	0.0160	7.7716%	1292315	71859	18.0	2	18	18	-.1053	1.2354E-08
13	7.68	DIELDRIN	0.0154	7.5031%	1252938	60540	20.7	2	18	18	0	1.2302E-08
14	8.68	EN + EN II	0.0606	29.4887%	4983359	171134	29.1	3	18	18	0	1.2157E-08
16	12.51	DDT	0.0317	15.4328%	2302571	67828	33.9	2	18	18	-.1703	1.3769E-08
17	18.47	METHOXYCHLOR	0.0412	20.0733%	2073390	39068	53.1	1	18	18	-.0138	1.9889E-08
18	23.16	MIREX	1.0000	0.0000%	3384765	51542	65.7	1	18	18	0	2.9544E-07

TOTAL AMOUNT = 0.2054

KM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC023.ATB
Data File = U:1ALC023.PTS Printed on 11-13-1990 at 22:37:12
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VGM
11/19/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********************** 11-07-1990 14:17:24 Version 4.1 ************************

* Sample Name: PEST B L1 Data File: W:2IC11 *

* Date: 11-06-1990 22:35:23 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *

* Interface: 0 Cycle#: 11 Operator SKF Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS * DKC

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * 11/26/90

* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ *

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	3.06	B-BHC	0.0021	5.7555%	136144	18063	7.5	2	13	13	.1349	1.5331E-08
4	3.57	D-BHC	0.0021	5.8877%	160107	17851	9.0	3	13	13	.1349	1.3336E-08
7	6.76	G-CHLORDANE	0.0023	6.3660%	232580	13420	17.3	2	13	13	-.1116	9.9263E-09
8	7.40	A-CHLORDANE	0.0023	6.2838%	235173	12580	18.7	2	13	13	.1349	9.6902E-09
9	8.85	DDE	0.0031	8.6195%	188886	9225	20.5	1	13	13	0	1.6549E-08
10	13.51	DDD	0.0047	12.8327%	298909	9559	31.3	1	13	13	0	1.5570E-08
11	17.72	END ALDEHYDE	0.0050	13.6899%	268743	6225	43.2	1	13	13	0	1.8474E-08
12	21.58	END SULFATE	0.0074	20.3542%	574336	11544	49.8	1	13	13	0	1.2852E-08
13	24.75	MIREX	1.0000	0.0000%	2646272	44223	59.8	1	13	13	0	3.7789E-07
14	29.24	END KETONE	0.0073	20.2106%	655629	9939	66.0	1	13	13	0	1.1179E-08

TOTAL AMOUNT = 0.0363

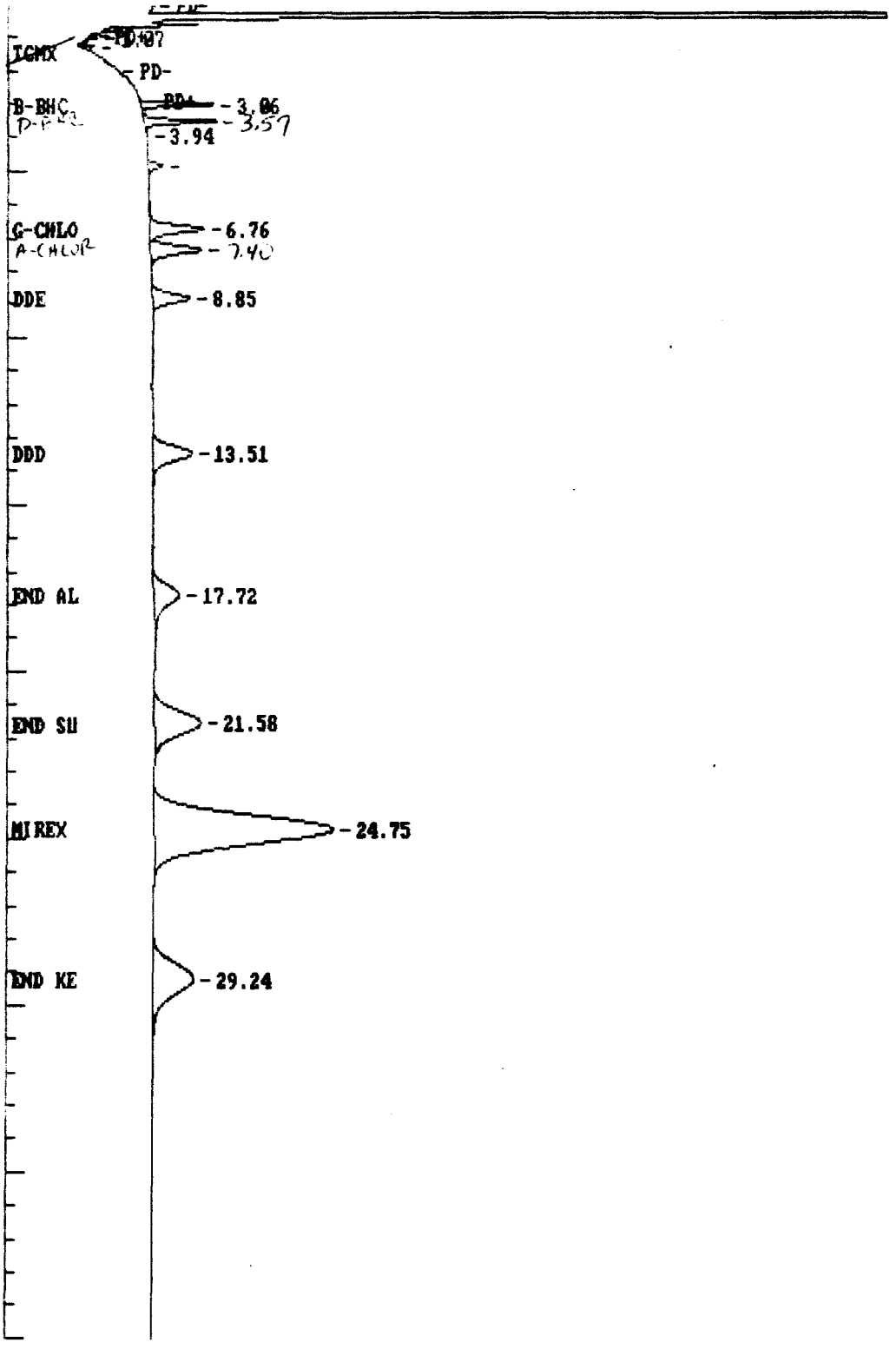
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX

[illegible] 11/9/90

PRIMARY COLUMN

Data File = W:2IC11.PTS Printed on 11-07-1990 at 14:17:46
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8/11/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 14:18:46 Version 4.1 **********

* Sample Name: PEST B L2 Data File: W:2IC12 *
* Date: 11-06-1990 23:19:32 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 12 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	3.06	B-BHC	0.0062	6.6206%	321252	42817	7.5	2	15	15	0	1.9336E-08
4	3.57	D-BHC	0.0049	5.2025%	379782	44681	8.5	3	15	15	0	1.2853E-08
8	6.78	G-CHLORDANE	0.0062	6.5695%	531228	32008	16.6	2	15	15	0	1.1603E-08
9	7.40	A-CHLORDANE	0.0062	6.5731%	562357	30243	18.6	2	15	15	0	1.0967E-08
10	8.85	DDE	0.0072	7.6991%	466821	22814	20.5	1	15	15	-.1883	1.5474E-08
12	13.53	DDD	0.0123	13.1380%	751090	23601	31.8	1	15	15	0	1.6412E-08
13	17.74	END ALDEHYDE	0.0115	12.2327%	669630	15116	44.3	1	15	15	0	1.7140E-08
14	21.59	END SULFATE	0.0196	20.8521%	1369656	27426	49.9	2	15	15	0	1.4284E-08
15	24.78	MIREX	1.0000	0.0000%	2632596	43934	59.9	2	15	15	0	3.7985E-07
16	29.26	END KETONE	0.0198	21.1124%	1623366	24530	66.2	1	15	15	0	1.2202E-08

TOTAL AMOUNT = 0.0938

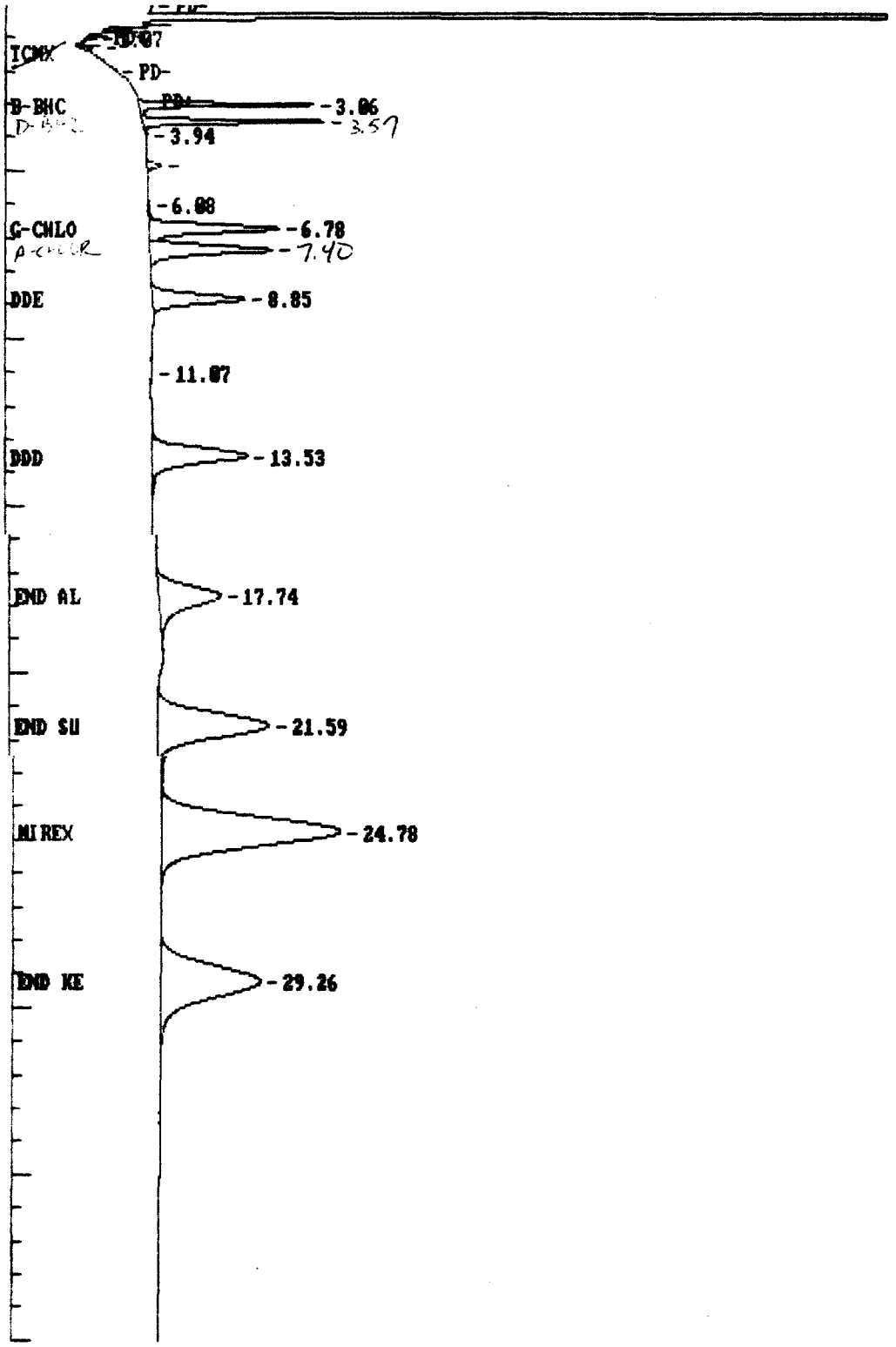
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX

8/ 11/9/90

PRIMARY COLUMN

Data File = W:2IC12.PTS Printed on 11-07-1990 at 14:19:08
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8 11/9/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 14:20:10 Version 4.1 **********

* Sample Name: PEST B L3 Data File: W:2IC13 *
* Date: 11-07-1990 00:03:37 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 13 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ * 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/KG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	3.06	B-BHC	0.0131	6.6089%	603166	79954	7.5	2	16	16	0	2.1786E-08
4	3.57	D-BHC	0.0099	4.9819%	745848	90734	8.2	3	16	16	0	1.3281E-08
8	6.78	G-CHLORDANE	0.0129	6.4800%	1003637	61537	16.3	2	16	16	0	1.2838E-08
9	7.40	A-CHLORDANE	0.0129	6.4709%	1074290	57933	18.5	2	16	16	0	1.1976E-08
10	8.87	DDE	0.0147	7.3794%	927353	45629	20.3	1	16	16	0	1.5822E-08
12	13.53	DDD	0.0258	12.9903%	1475567	46703	31.6	1	16	16	0	1.7504E-08
13	17.75	END ALDEHYDE	0.0264	13.2891%	1516785	30230	50.2	3	16	16	0	1.7420E-08
15	21.61	END SULFATE	0.0416	20.9300%	2680214	52606	50.9	2	16	16	0	1.5527E-08
16	24.78	MIREX	1.0000	0.0000%	2506965	41650	60.2	2	16	16	0	3.9889E-07
17	29.26	END KETONE	0.0415	20.8695%	3152973	47936	65.8	1	16	16	0	1.3161E-08

TOTAL AMOUNT = 0.1988

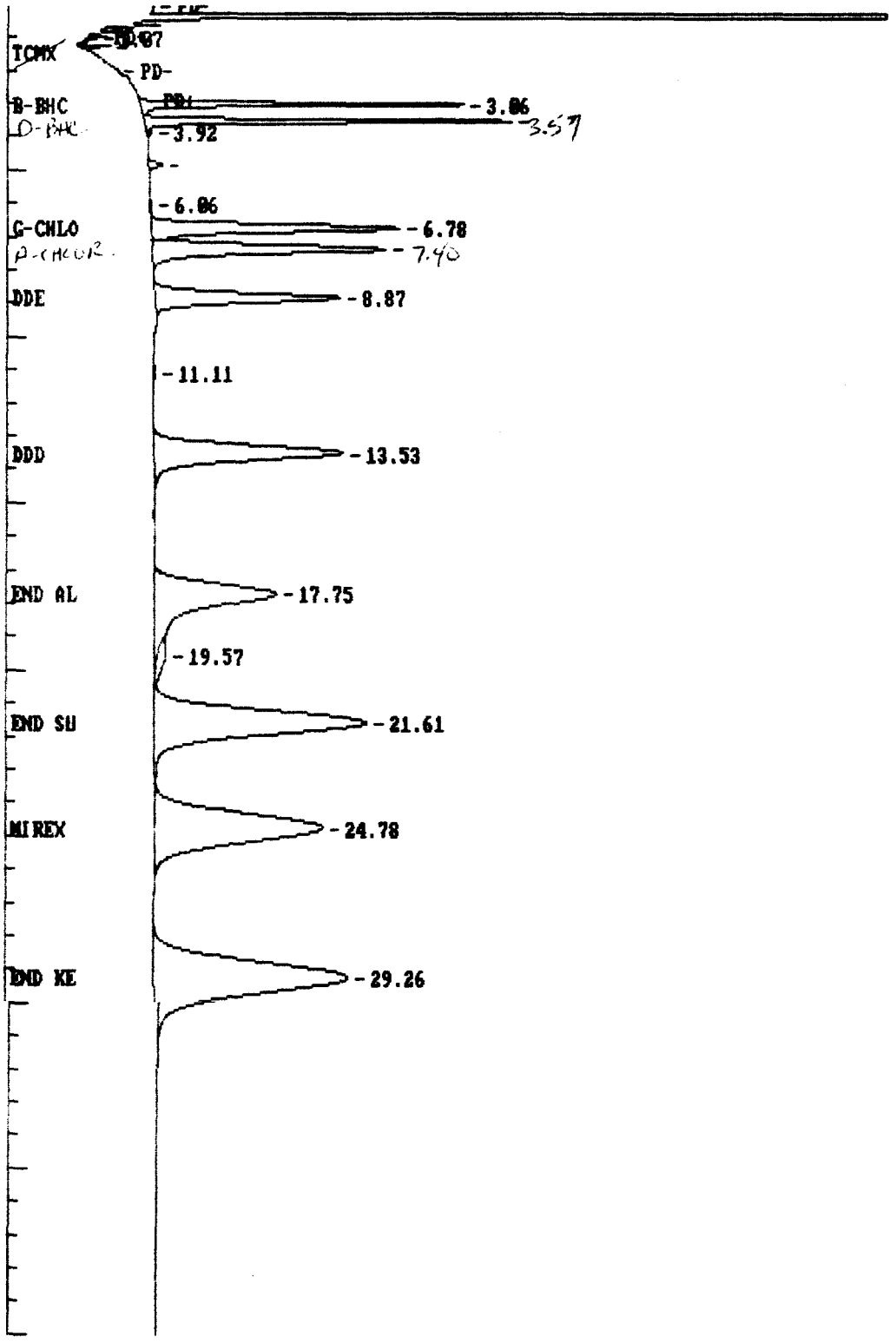
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX

11/9/90

PRIMARY COLUMN

Data File = W:2IC13.PTS Printed on 11-07-1990 at 14:20:32
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/7/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 14:21:36 Version 4.1 **********

* Sample Name: PEST B L4 Data File: W:2IC14 *
* Date: 11-07-1990 00:47:43 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 14 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ * 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Kml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	3.06	B-BHC	0.0189	6.4881%	902281	118005	7.6	2	18	18	0	2.0911E-08
5	3.57	D-BHC	0.0151	5.1782%	1211583	145069	8.4	3	18	18	0	1.2428E-08
10	6.78	G-CHLORDANE	0.0187	6.4404%	1526945	93783	16.3	2	18	18	0	1.2266E-08
11	7.40	A-CHLORDANE	0.0189	6.4859%	1654405	88141	18.8	2	18	18	0	1.1400E-08
12	8.87	DDE	0.0235	8.0915%	1595981	72816	21.9	2	18	18	0	1.4743E-08
14	13.53	DDD	0.0376	12.9326%	2273515	72459	31.4	1	18	18	0	1.6542E-08
15	17.75	END ALDEHYDE	0.0378	13.0154%	2326660	45707	50.9	3	18	18	0	1.6268E-08
17	21.61	END SULFATE	0.0603	20.7363%	4088278	80162	51.0	2	18	18	0	1.4750E-08
18	24.78	MIREX	1.0000	0.0000%	2664770	44005	60.6	2	18	18	0	3.7527E-07
19	29.26	END KETONE	0.0600	20.6315%	4808798	73214	65.7	1	18	18	0	1.2476E-08

TOTAL AMOUNT = 0.2908

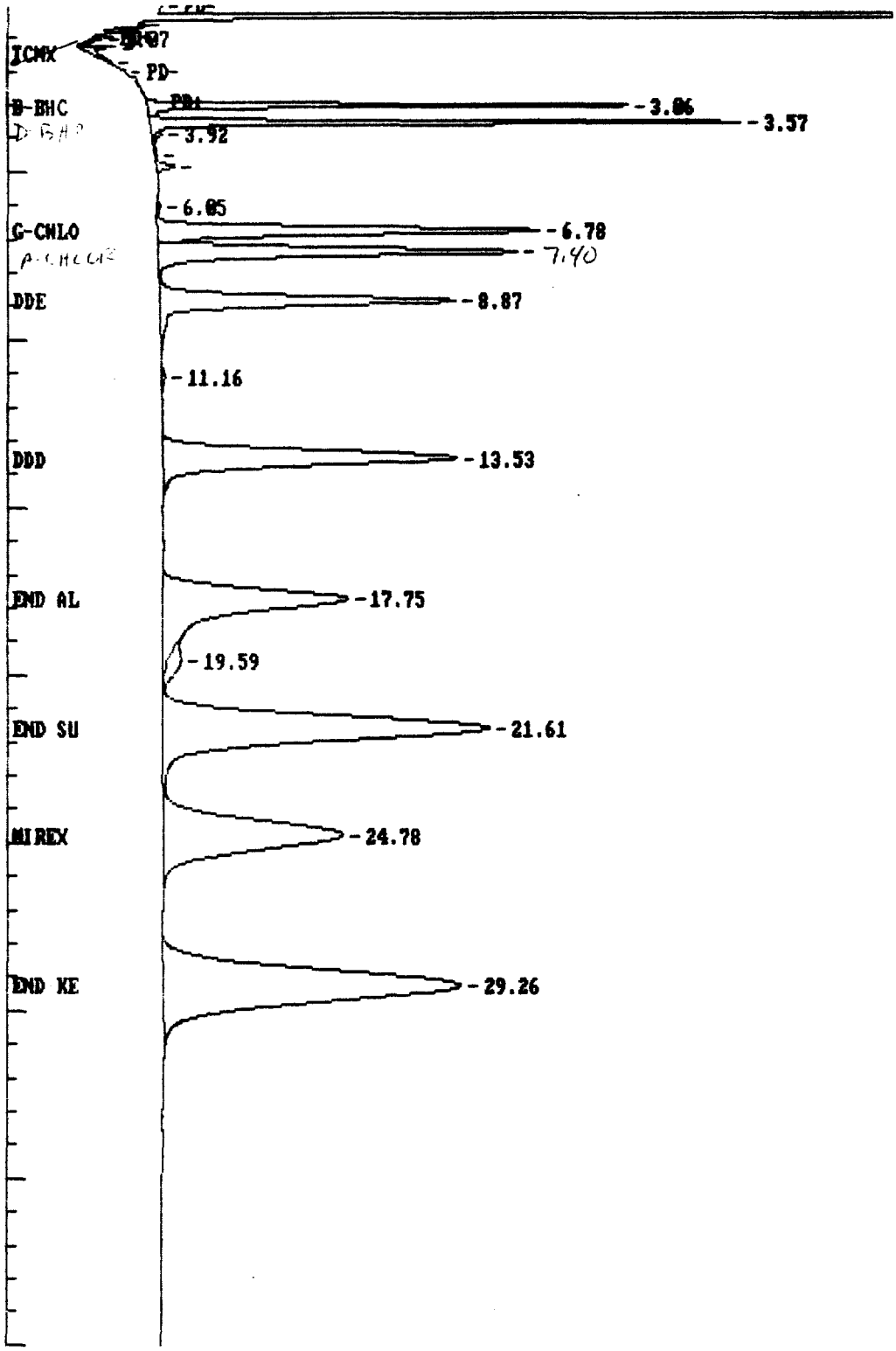
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX

S/ 11/7/90

PRIMARY COLUMN

Data File = W:2IC14.PTS Printed on 11-07-1990 at 14:21:58
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



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11/9/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 14:23:05 Version 4.1 **********

* Sample Name: PEST B L5 Data File: W:2IC15 *
* Date: 11-07-1990 01:31:48 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 15 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ *

DKC 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	3.06	B-BHC	0.0246	6.4552%	1173133	153272	7.7	2	16	16	0	2.0963E-08
4	3.57	D-BHC	0.0200	5.2549%	1628431	195531	8.3	3	16	16	0	1.2294E-08
9	6.78	G-CHLORDANE	0.0248	6.5134%	2022930	124489	16.2	2	16	16	0	1.2267E-08
10	7.40	A-CHLORDANE	0.0247	6.4904%	2173988	116096	18.7	2	16	16	0	1.1374E-08
11	8.87	DDE	0.0294	7.7295%	2020494	98139	20.6	2	16	16	0	1.4574E-08
12	13.53	DDD	0.0496	13.0146%	3015394	97403	31.0	1	16	16	0	1.6443E-08
13	17.75	END ALDEHYDE	0.0493	12.9368%	3067314	60150	51.0	3	16	16	0	1.6068E-08
15	21.61	END SULFATE	0.0791	20.7721%	5382421	105078	51.2	2	16	16	0	1.4703E-08
16	24.78	MIREX	1.0000	0.0000%	2687175	44355	60.6	2	16	16	0	3.7214E-07
17	29.26	END KETONE	0.0794	20.8332%	6388059	97036	65.8	1	16	16	0	1.2425E-08

TOTAL AMOUNT = 0.3810

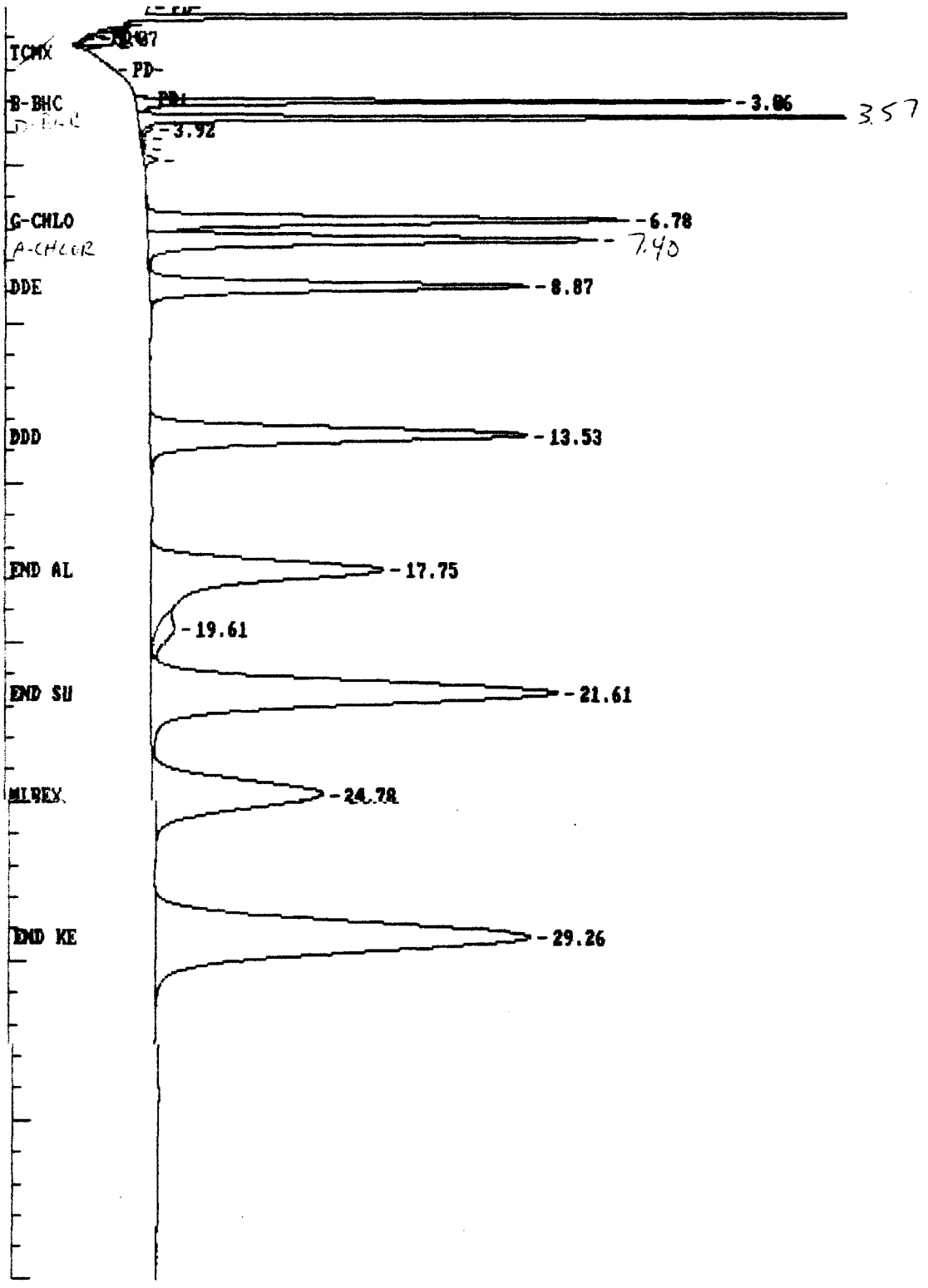
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX

8
11/9/90

PRIMARY COLUMN

Data File = W:2IC15.PTS Printed on 11-07-1990 at 14:23:27
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



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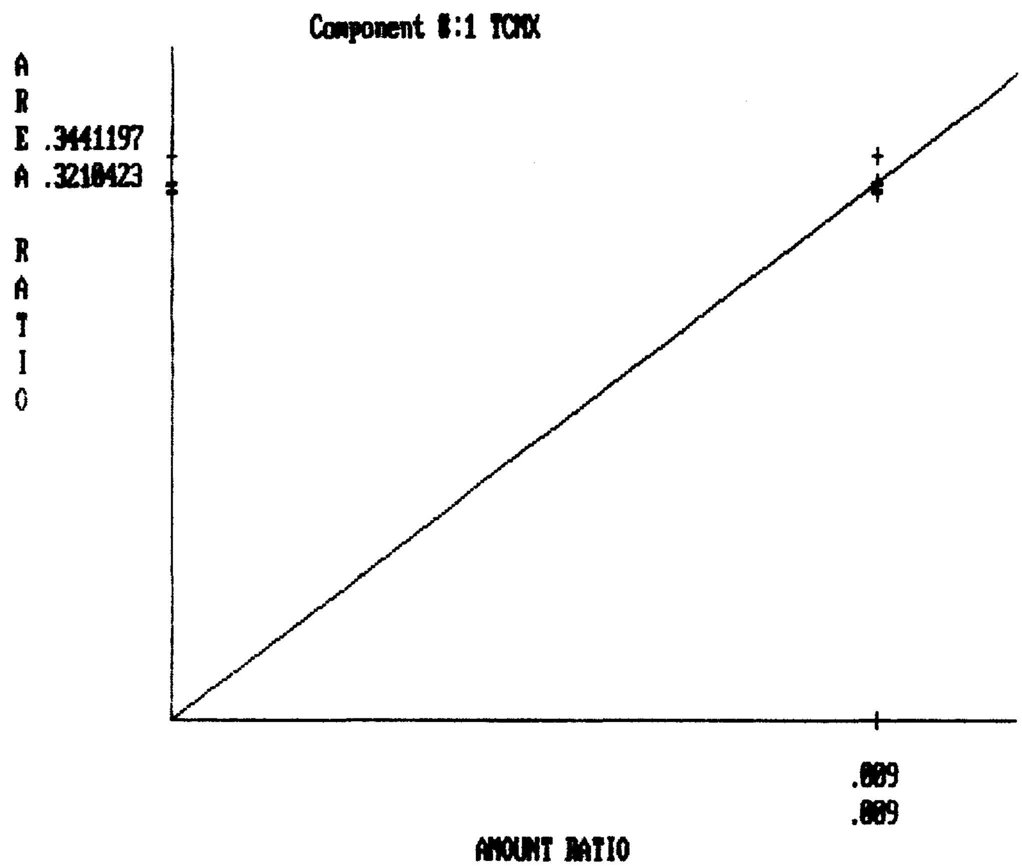
11/9/90

PRIMARY COLUMN

Output redirected to LPT1:

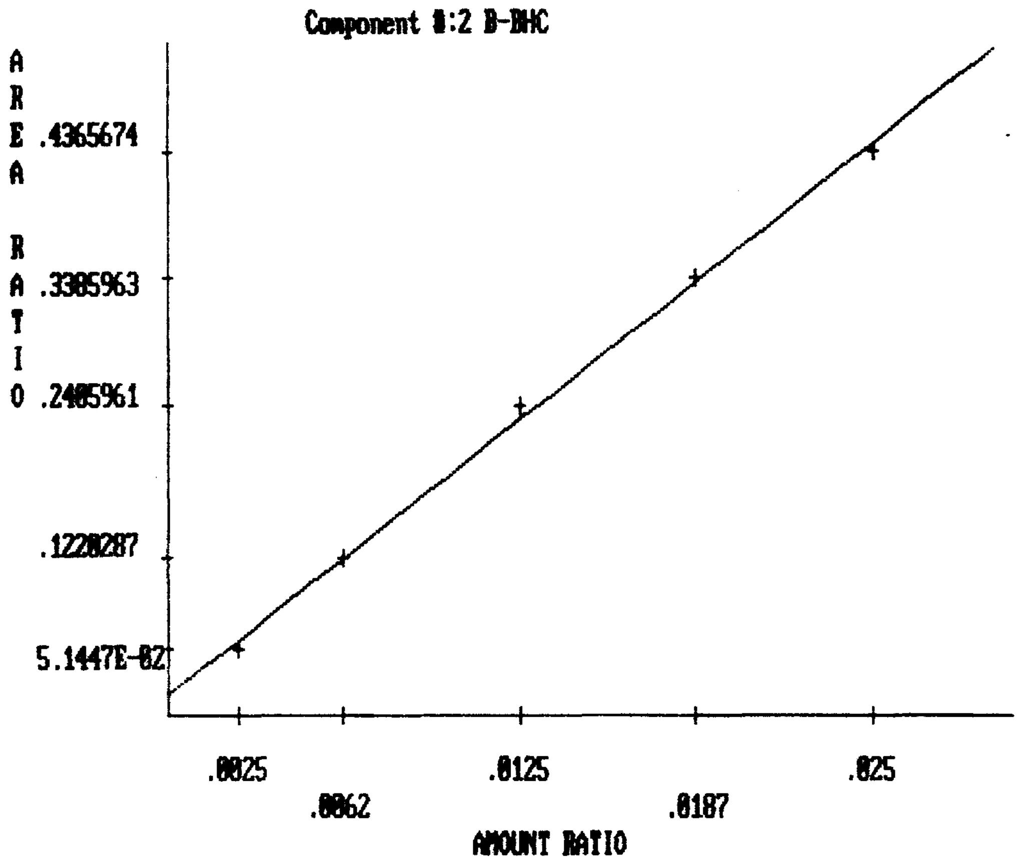
Method W:2PESTB
Sample MIXED PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 11-07-1990 14:16:50 version: 211
Printed on 11-07-1990 AT 14:25:52
Straight Line fit



Component 1 = TCMX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0090	862696	0.0090	0.3260
2	0.0090	862696	0.0090	0.3277
3	0.0090	862696	0.0090	0.3441
4	0.0090	862696	0.0090	0.3237
5	0.0090	862696	0.0090	0.3210

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.6502E+01 * Amt ratio + 0.0000E+00
Amt ratio = 2.7396E-02 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000



Component 2 = B-BHC

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	136144	0.0025	0.0514
2	0.0062	321252	0.0062	0.1220
3	0.0125	603166	0.0125	0.2406
4	0.0187	902281	0.0187	0.3386
5	0.0250	1173133	0.0250	0.4366

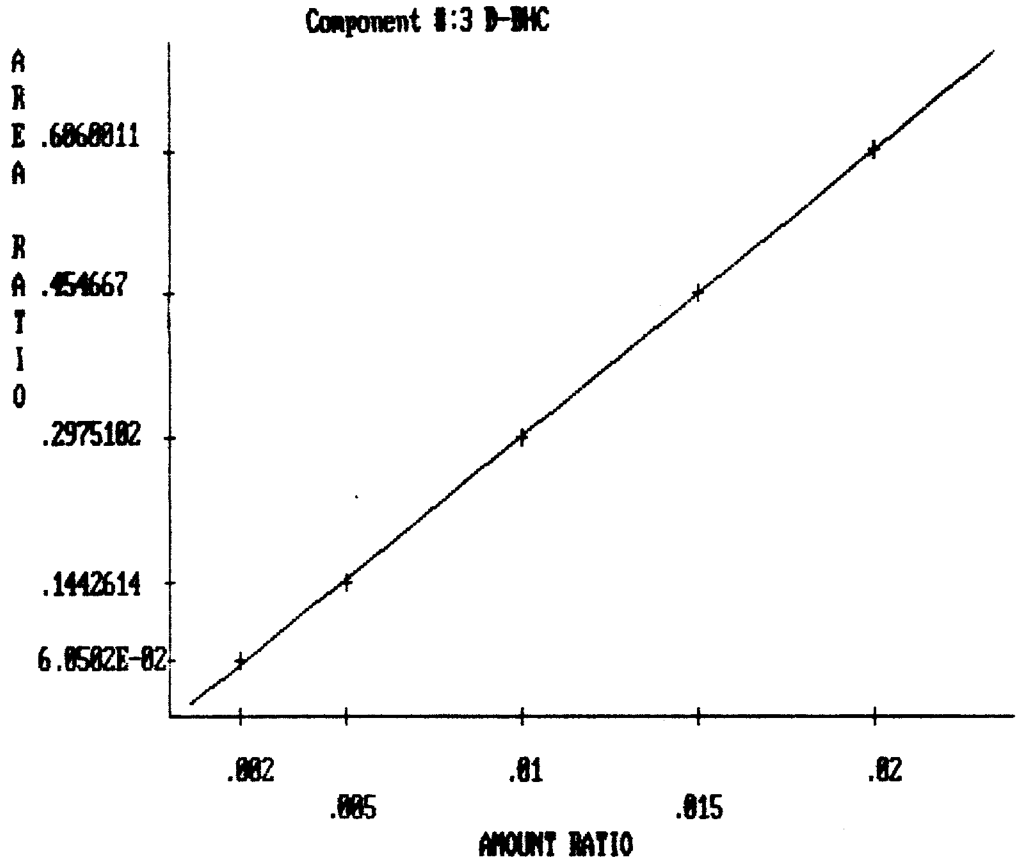
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.7112E+01 * Amt ratio + 1.5729E-02

Amt ratio = 5.8437E-02 * Area ratio + -9.1919E-04

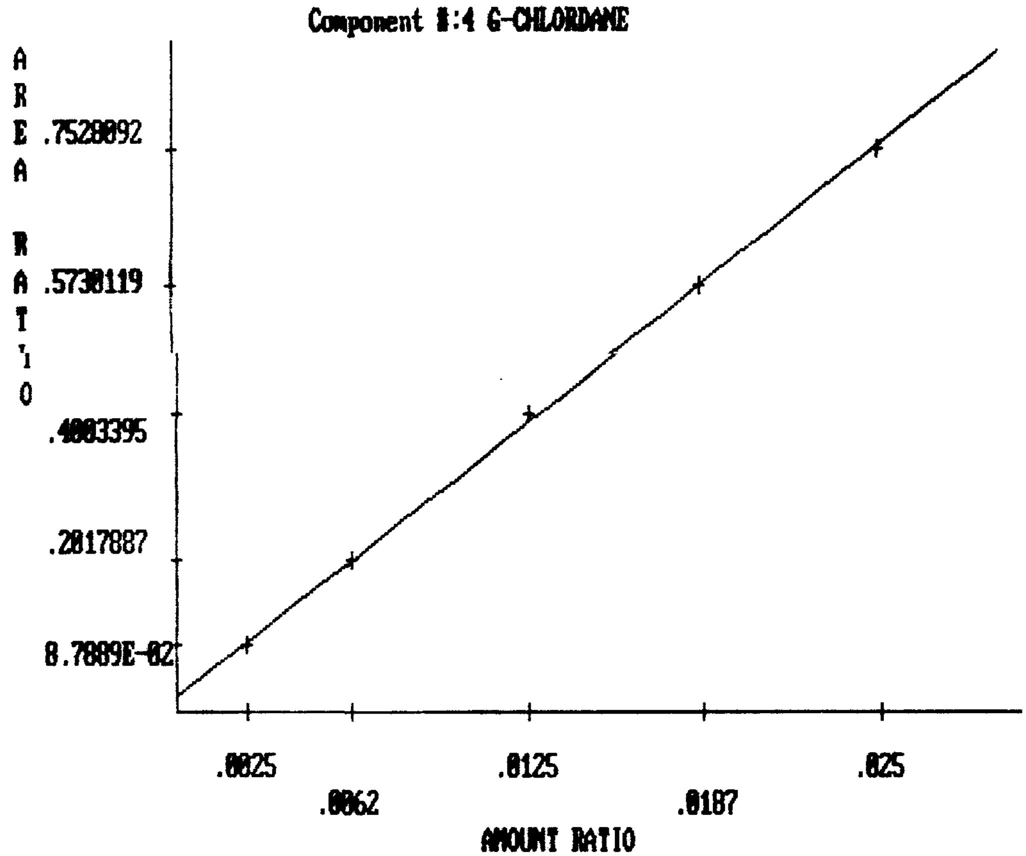
Correlation Coefficient = 0.9977



Component 3 = D-BHC
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0020	160107	0.0020	0.0605
2	0.0050	379782	0.0050	0.1443
3	0.0100	745848	0.0100	0.2975
4	0.0150	1211583	0.0150	0.4547
5	0.0200	1628431	0.0200	0.6060

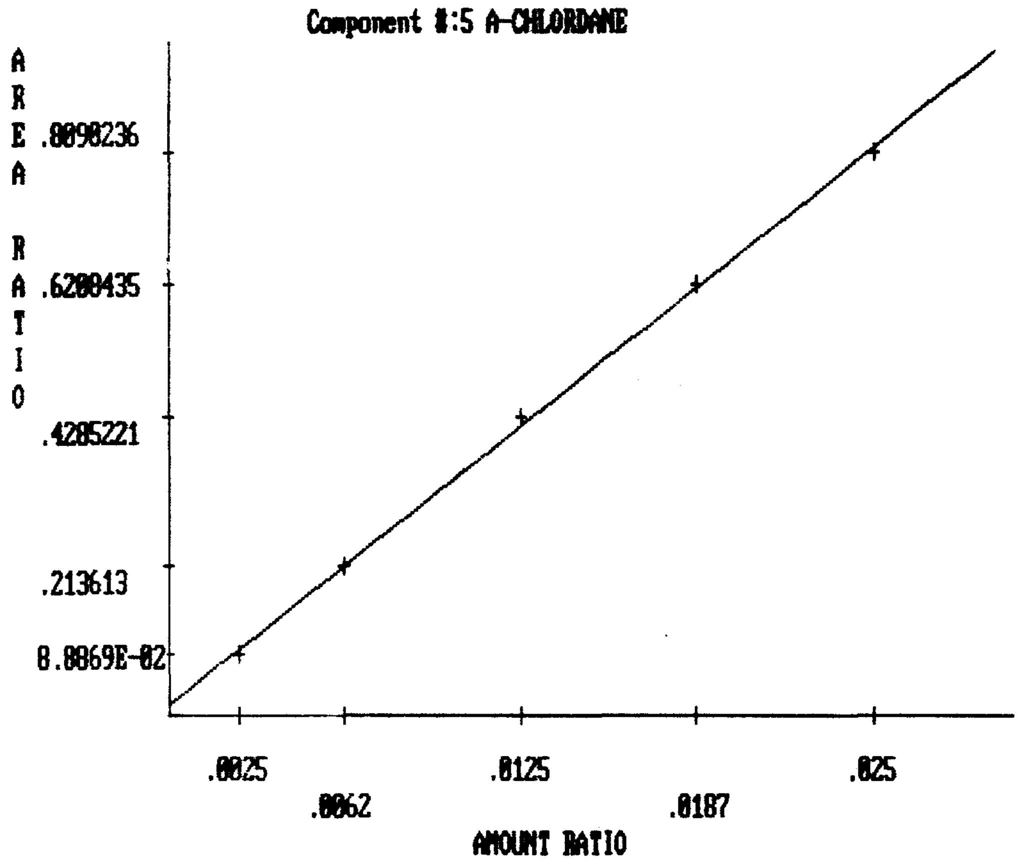
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.0501E+01 * Amt ratio + -4.6232E-03
Amt ratio = 3.2786E-02 * Area ratio + 1.5158E-04
Correlation Coefficient = 0.9998



Component 4 = G-CHLORDANE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	232580	0.0025	0.0879
2	0.0062	531228	0.0062	0.2018
3	0.0125	1003637	0.0125	0.4003
4	0.0187	1526945	0.0187	0.5730
5	0.0250	2022930	0.0250	0.7528

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.9544E+01 * Amt ratio + 1.9682E-02
Amt ratio = 3.3847E-02 * Area ratio + -6.6617E-04
Correlation Coefficient = 0.9993



Component 5 = A-CHLORDANE

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	235173	0.0025	0.0889
2	0.0062	562357	0.0062	0.2136
3	0.0125	1074290	0.0125	0.4285
4	0.0187	1654405	0.0187	0.6208
5	0.0250	2173988	0.0250	0.8090

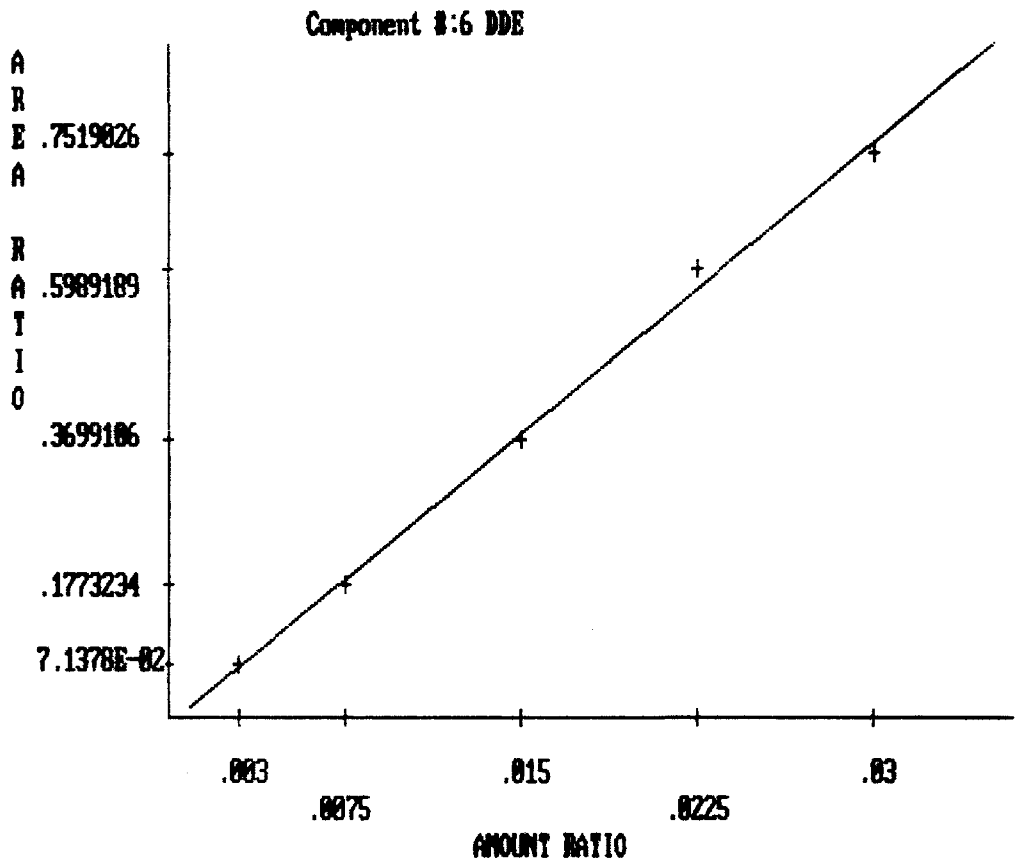
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 3.2081E+01 * Amt ratio + 1.5761E-02

Amt ratio = 3.1171E-02 * Area ratio + -4.9128E-04

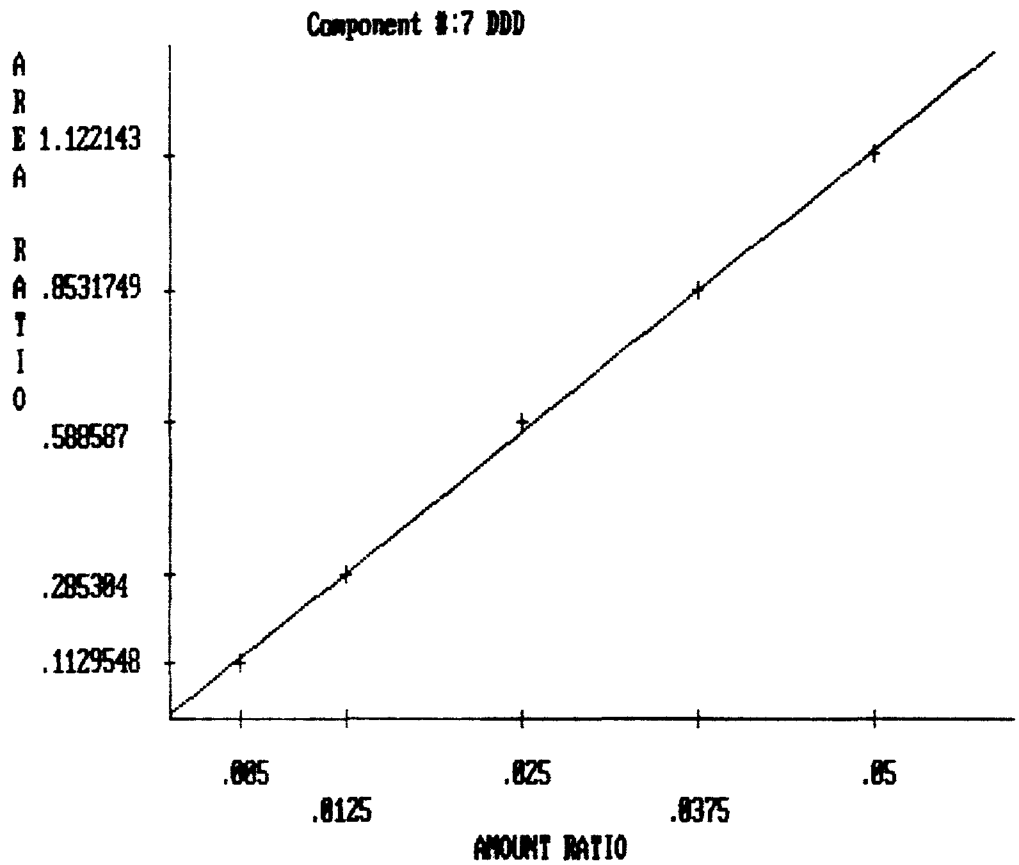
Correlation Coefficient = 0.9991



Component 6 = DDE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	188886	0.0030	0.0714
2	0.0075	466821	0.0075	0.1773
3	0.0150	927353	0.0150	0.3699
4	0.0225	1595981	0.0225	0.5989
5	0.0300	2020494	0.0300	0.7519

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.5854E+01 * Amt ratio + -9.4404E-03
Amt ratio = 3.8678E-02 * Area ratio + 3.6514E-04
Correlation Coefficient = 0.9967



Component 7 = DDD

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0050	298909	0.0050	0.1130
2	0.0125	751090	0.0125	0.2853
3	0.0250	1475567	0.0250	0.5886
4	0.0375	2273515	0.0375	0.8532
5	0.0500	3015394	0.0500	1.1221

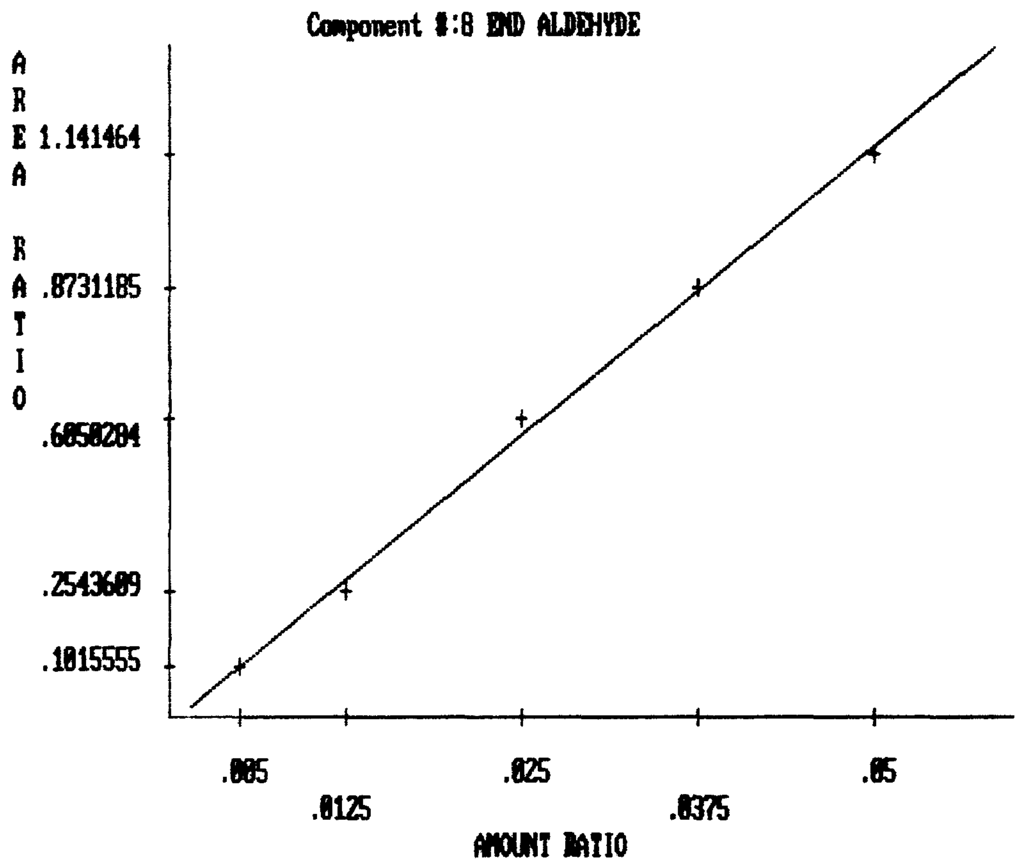
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.2462E+01 * Amt ratio + 8.4191E-03

Amt ratio = 4.4520E-02 * Area ratio + -3.7481E-04

Correlation Coefficient = 0.9992



Component 8 = END ALDEHYDE

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0050	268743	0.0050	0.1016
2	0.0125	669630	0.0125	0.2544
3	0.0250	1516785	0.0250	0.6050
4	0.0375	2326660	0.0375	0.8731
5	0.0500	3067314	0.0500	1.1415

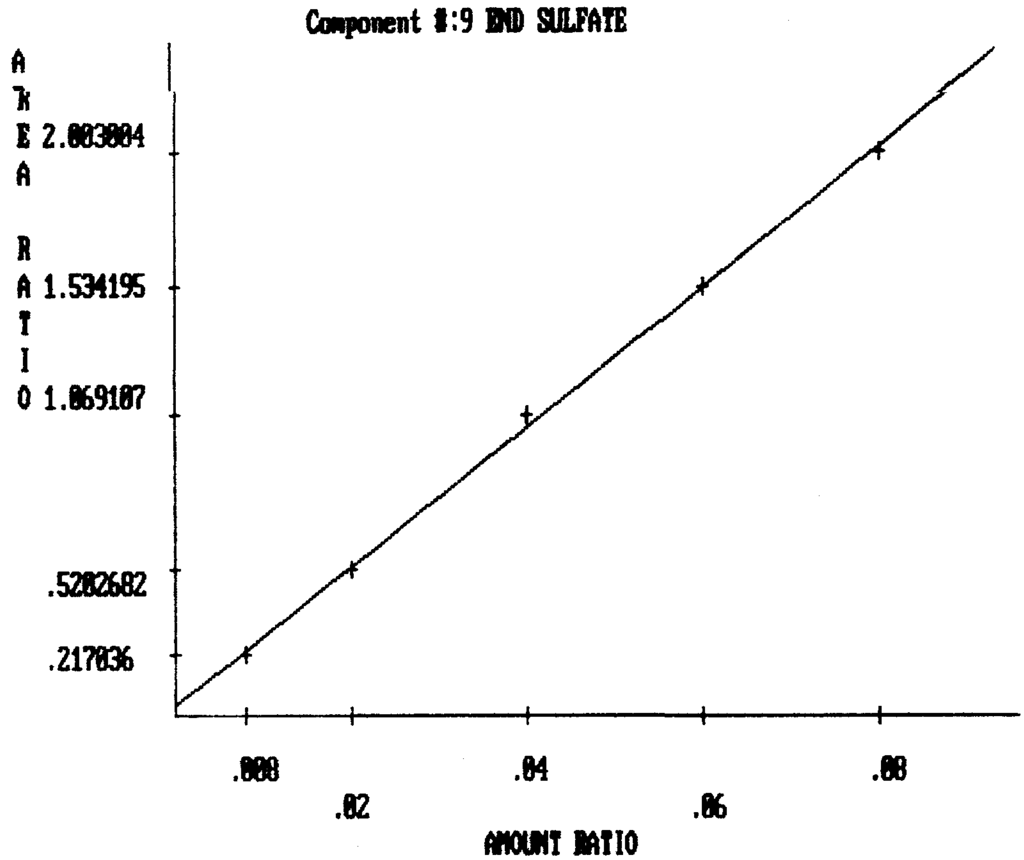
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.3463E+01 * Amt ratio + -1.4932E-02

Amt ratio = 4.2620E-02 * Area ratio + 6.3642E-04

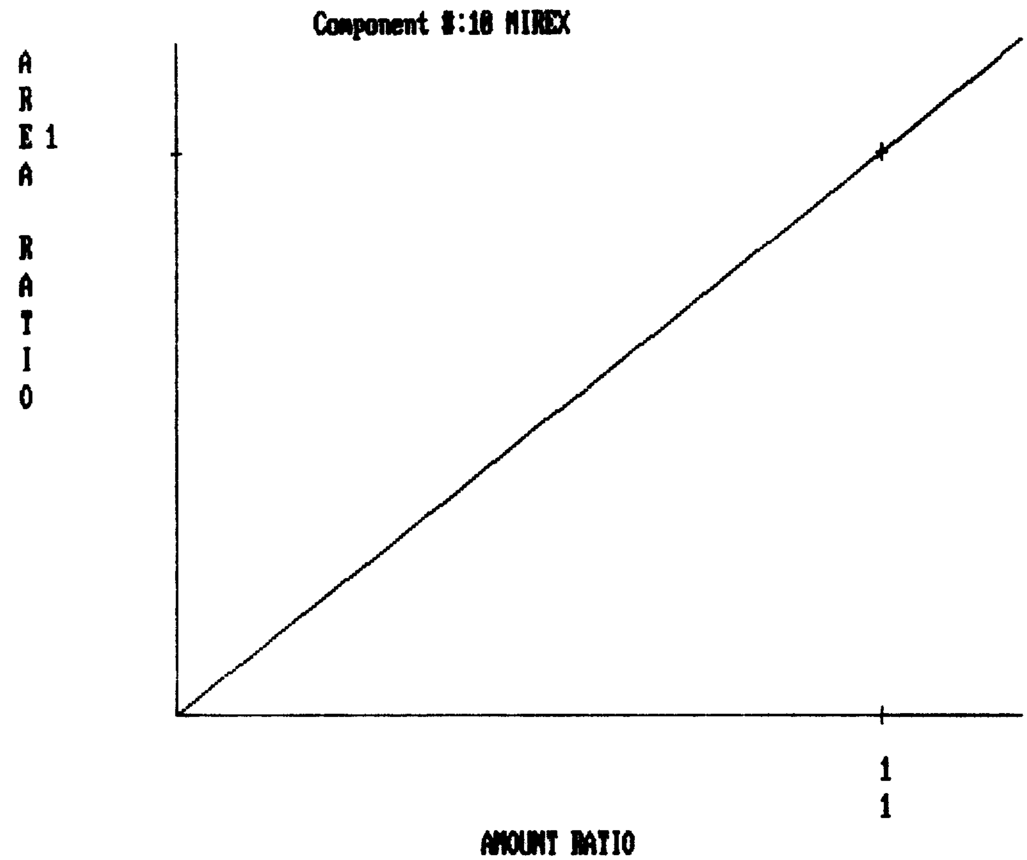
Correlation Coefficient = 0.9972



Component 9 = END SULFATE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0080	574336	0.0080	0.2170
2	0.0200	1369656	0.0200	0.5203
3	0.0400	2680214	0.0400	1.0691
4	0.0600	4088278	0.0600	1.5342
5	0.0800	5382421	0.0800	2.0030

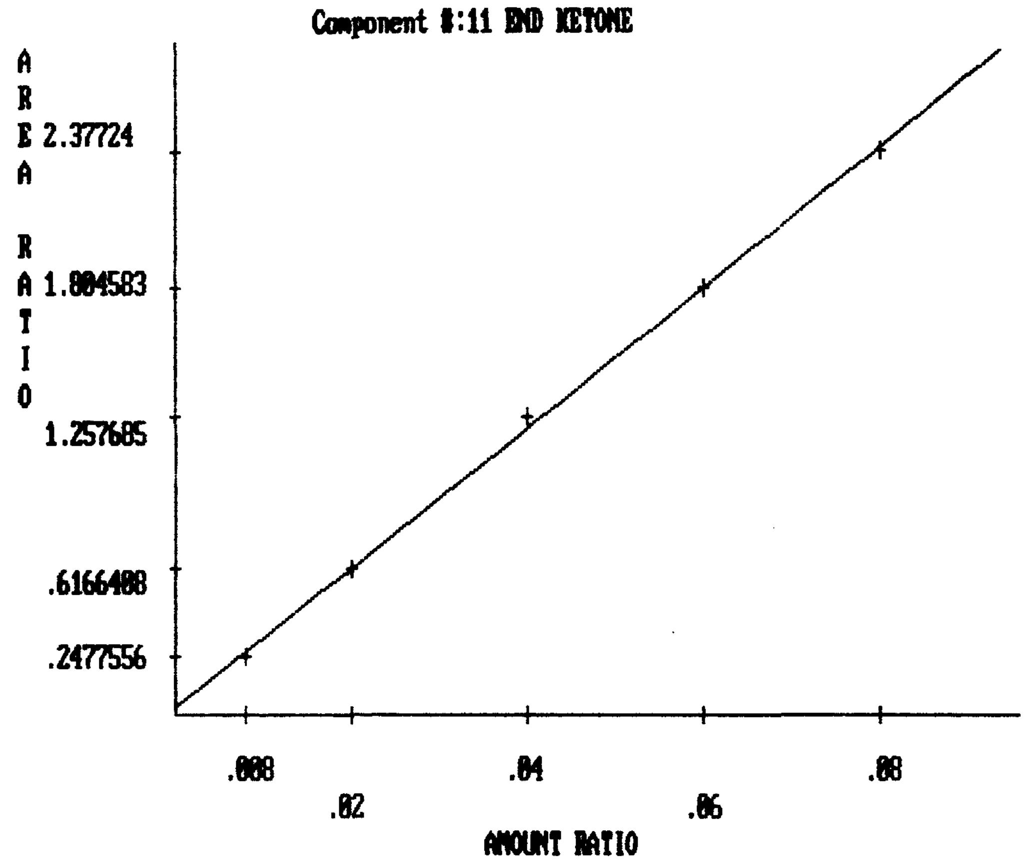
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.4890E+01 * Amt ratio + 3.3310E-02
Amt ratio = 4.0177E-02 * Area ratio + -1.3383E-03
Correlation Coefficient = 0.9988



Component 10 = MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	2646272	1.0000	1.0000
2	1.0000	2632596	1.0000	1.0000
3	1.0000	2506965	1.0000	1.0000
4	1.0000	2664770	1.0000	1.0000
5	1.0000	2687175	1.0000	1.0000

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.0000E+00 * Amt ratio + 0.0000E+00
Amt ratio = 1.0000E+00 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000



Component 11 = END KETONE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0080	655629	0.0080	0.2478
2	0.0200	1623366	0.0200	0.6166
3	0.0400	3152973	0.0400	1.2577
4	0.0600	4808798	0.0600	1.8046
5	0.0800	6388059	0.0800	2.3772

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.9560E+01 * Amt ratio + 3.1098E-02
Amt ratio = 3.3830E-02 * Area ratio + -1.0520E-03
Correlation Coefficient = 0.9991

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2PESTB

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-16-1990 14:25:21 Version 4.1 **********************
* Sample Name: PEST B L3 #3                    Data File: U:2ALC05        *
* Date: 11-12-1990 15:02:04 Method: U:2PESTB 11-16-1990 14:24:27  #  213  *
* Interface: 0   Cycle#:  5    Operator DKC Channel#: 1    Vial#: N.A.   *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS      *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN           *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                  *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: PRIMARY COLUMN                  ~~CONFIRMATORY CO~~  *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	3.07	B-BHC	0.0132	6.5399%	619281	82087	7.5	2	17	17	.2761	2.1380E-08
5	3.59	D-BHC	0.0100	4.9550%	770205	92636	8.3	3	17	17	.1972	1.3024E-08
10	6.80	G-CHLORDANE	0.0137	6.7917%	1088582	63562	17.1	2	17	17	0	1.2631E-08
11	7.41	A-CHLORDANE	0.0133	6.5723%	1131283	59816	18.9	2	17	17	0	1.1762E-08
12	8.88	DDE	0.0155	7.6589%	1000482	47601	21.0	2	17	17	0	1.5498E-08
13	13.56	DDD	0.0253	12.4764%	1471618	47556	30.9	1	17	17	0	1.7164E-08
14	17.77	END ALDEHYDE	0.0273	13.4945%	1600164	31195	51.3	3	17	17	-.1750	1.7073E-08
16	21.63	END SULFATE	0.0422	20.8423%	2769402	54277	51.0	2	17	17	-.1917	1.5236E-08
17	24.85	MIREX	1.0000	0.0000%	2555869	42340	60.4	2	17	17	0	3.9126E-07
18	29.31	END KETONE	0.0418	20.6690%	3240878	49207	65.9	1	17	17	0	1.2912E-08

TOTAL AMOUNT = 0.2025

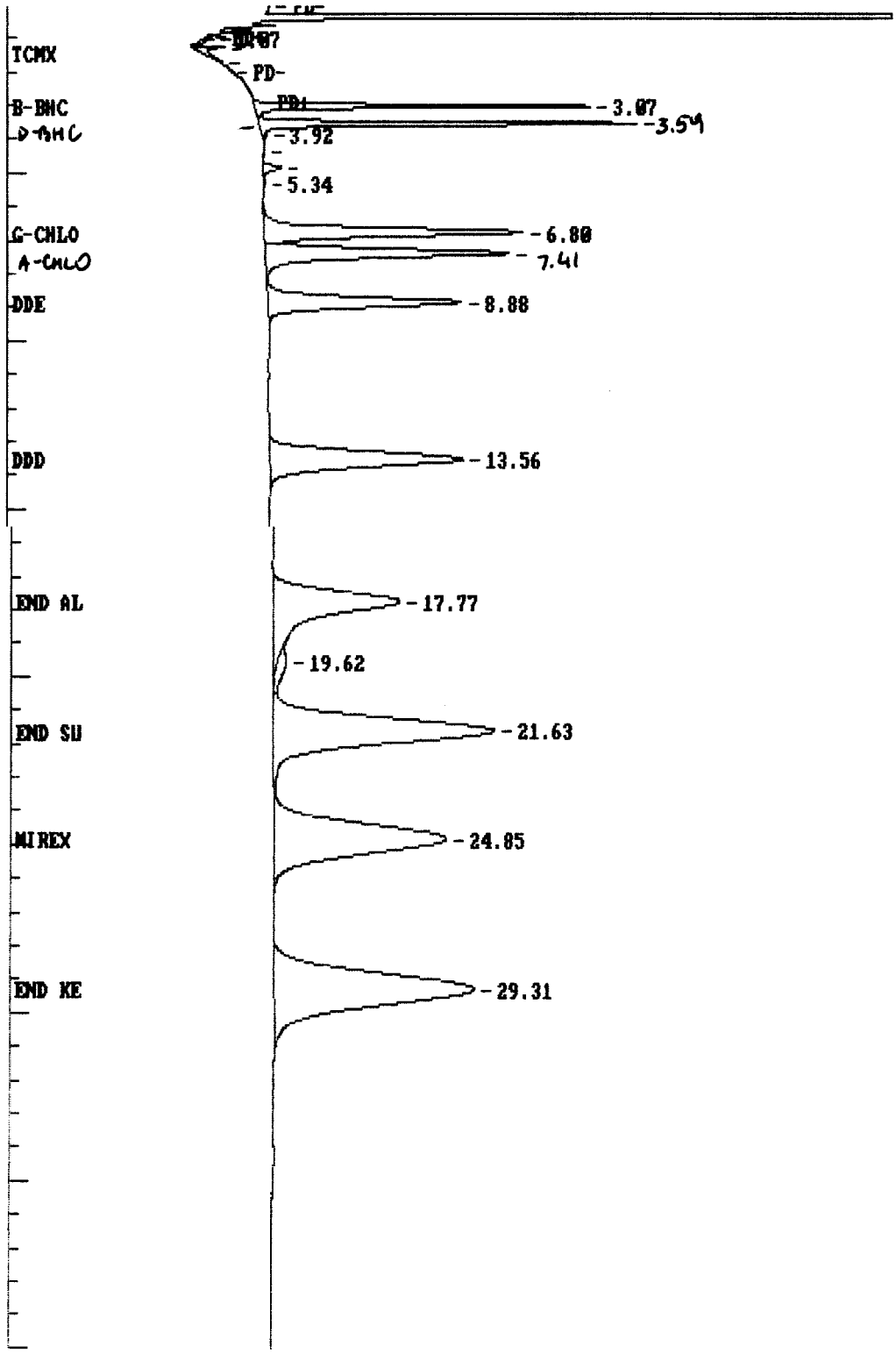
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX

KM 11/19/90

PRIMARY COLUMN

Data File = U:2ALC05.PTS Printed on 11-16-1990 at 12:08:51
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VM
11/19/90

NEW TIMED EVENTS FROM U:2PESTB

PRIMARY COLUMN

```
****** INTERNAL STANDARD TABLE ******
******************** 11-16-1990 14:26:25 Version 4.1 **********************
* Sample Name: PEST B L3 #4                          Data File: U:2ALC016     *
* Date: 11-13-1990 17:27:57 Method: U:2PESTB 11-16-1990 14:24:27  #  213    *
* Interface: 0   Cycle#:  16   Operator DKC Channel#: 1    Vial#: N.A.       *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100               *
*****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS          *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                      *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~PRIM~~ QUANT  * DKC
* Misc. Information: PRIMARY COLUMN                          ~~CONFIRMATORY CO~~  *11/26/90
*****************************************************************************
Starting Delay:    0.00                          Ending retention time:    40.00
Area reject:          0                          One sample per    1.002 sec.
Amount injected:          1.00                   Dilution factor:          1.00
Internal Standard Amount:  1
Sample Weight:            1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~K~~ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	3.04	B-BHC	0.0133	6.5722%	627755	83336	7.5	2	18	18	.1962	2.1157E-08
5	3.54	D-BHC	0.0105	5.2127%	818081	95722	8.5	3	18	18	-.1947	1.2876E-08
11	6.71	G-CHLORDANE	0.0134	6.6484%	1076262	63630	16.9	2	18	18	-.2457	1.2483E-08
12	7.35	A-CHLORDANE	0.0129	6.3761%	1108572	59811	18.5	2	18	18	0	1.1623E-08
13	8.78	DDE	0.0151	7.4621%	982782	47579	20.7	2	18	18	-.2018	1.5344E-08
14	13.41	DDD	0.0255	12.6079%	1500175	48674	30.8	1	18	18	-.1238	1.6983E-08
15	17.59	END ALDEHYDE	0.0267	13.2235%	1581143	31584	50.1	3	18	18	-.2009	1.6901E-08
17	21.39	END SULFATE	0.0429	21.2186%	2843107	55929	50.8	2	18	18	-.2653	1.5082E-08
18	24.60	MIREX	1.0000	0.0000%	2583336	43073	60.0	2	18	18	0	3.8710E-07
19	29.01	END KETONE	0.0418	20.6785%	3271338	50034	65.4	1	18	18	-.1157	1.2774E-08

TOTAL AMOUNT = 0.2021

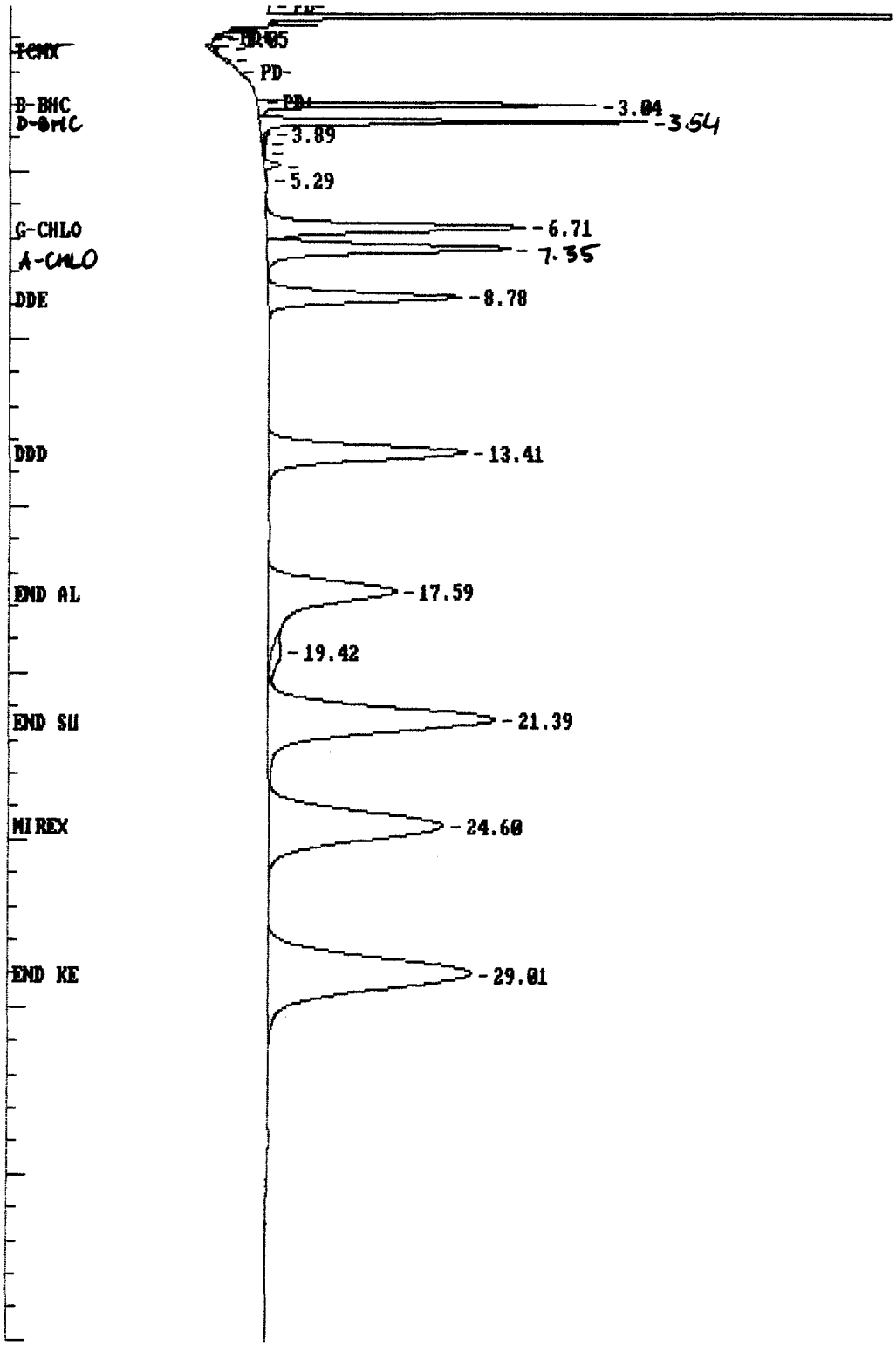
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.44	MIREX

UM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC016.PTS Printed on 11-16-1990 at 12:53:47
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2PESTB1

****** INTERNAL STANDARD TABLE ******

********** 11-16-1990 14:42:28 Version 4.1 **********

* Sample Name: PEST B L3 #5 Data File: U:2ALC025 *
* Date: 11-14-1990 00:04:50 Method: U:2PESTB1 11-16-1990 14:41:39 # 214 *
* Interface: 0 Cycle#: 25 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

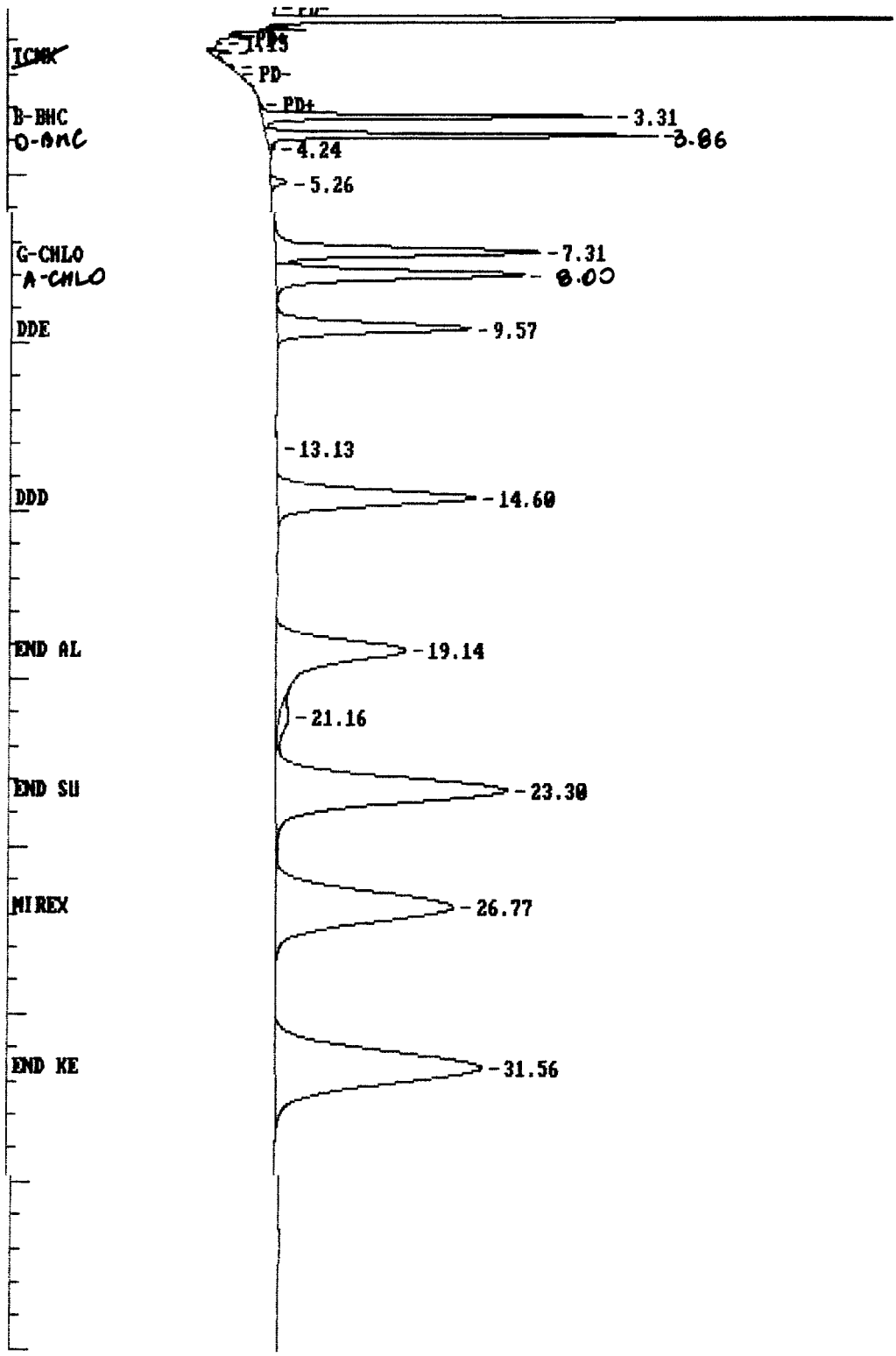
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~1.42~~	~~TCMX~~	~~0.0002~~	~~0.1080%~~	~~21655~~	~~4790~~	~~4.5~~	~~3~~	~~16~~	~~16~~	~~-2.103~~	~~1.0075E-08~~
4	3.31	B-BHC	0.0138	6.8087%	682657	85634	8.0	2	16	16	-.1030	2.0145E-08
5	3.86	D-BHC	0.0101	4.9842%	822342	95933	8.6	3	16	16	.1996	1.2242E-08
8	7.31	G-CHLORDANE	0.0136	6.7550%	1149566	65166	17.6	2	16	16	-1.020	1.1869E-08
9	8.00	A-CHLORDANE	0.0131	6.4676%	1182374	61042	19.4	2	16	16	0	1.1048E-08
10	9.57	DDE	0.0148	7.3099%	1012277	47520	21.3	2	16	16	0	1.4585E-08
12	14.60	DDD	0.0251	12.4226%	1555360	48709	31.9	1	16	16	0	1.6132E-08
13	19.14	END ALDEHYDE	0.0267	13.2348%	1664814	31882	52.2	3	16	16	0	1.6057E-08
15	23.30	END SULFATE	0.0429	21.2424%	2994275	56898	52.6	2	16	16	0	1.4329E-08
16	26.77	MIREX	1.0000	0.0000%	2719100	43673	62.3	2	16	16	0	3.6777E-07
17	31.56	END KETONE	0.0417	20.6666%	3439586	50757	67.8	1	16	16	0	1.2136E-08

TOTAL AMOUNT = 0.2020

UM
11/19/90

PRIMARY COLUM

Data File = U:2ALC025.PTS Printed on 11-16-1990 at 14:43:20
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

```
*****   INTERNAL  STANDARD  TABLE   *****
******************* 11-07-1990 10:20:17 Version 4.1 *********************
* Sample Name: PEST B L1                              Data File: W:1IC10      *
* Date: 11-06-1990 21:51:15 Method: W:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  10   Operator SKF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
**************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*          Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT   *
* Misc. Information: CONFIRMATORY COLUMN               LPT1:          *    *
**************************************************************************
Starting Delay:    0.00                     Ending retention time:   40.00
Area reject:         0                      One sample per   1.002 sec.
Amount injected:        1.00                Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

DKC 11/26/90

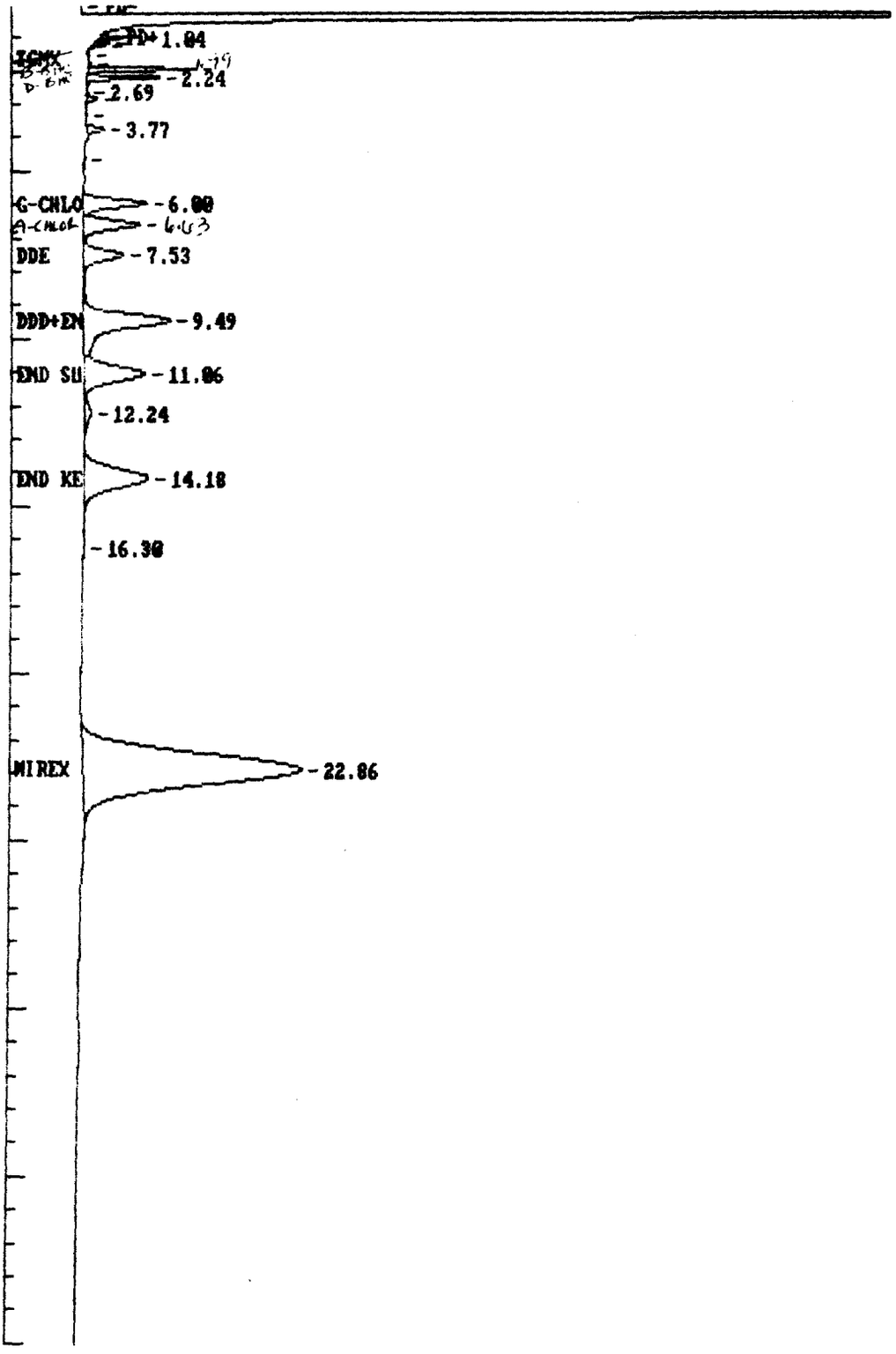
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL		REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.52~~	~~TCMX~~	~~0.0000~~	~~0.0500%~~	~~2525~~	~~393~~	~~6.4~~	~~1~~	~~21~~	~~21~~	~~-5.420~~	~~7.7927E-09~~
6	1.99	B-BHC	0.0022	5.6552%	156599	26490	5.9	2	21	21	0	1.3996E-08
7	2.24	D-BHC	0.0025	6.4272%	120565	17799	6.8	2	21	21	.7045	2.0660E-08
13	6.00	G-CHLOR	0.0025	6.4488%	272581	15590	17.5	2	21	21	0	9.1689E-09
14	6.63	A-CHLOR	0.0024	6.2865%	272642	13878	19.6	2	21	21	.0474	8.9362E-09
15	7.53	DDE	0.0032	8.3152%	224046	9902	22.6	2	21	21	0	1.4384E-08
16	9.49	DDD+END ALD	0.0095	24.6102%	703731	21356	33.0	2	21	21	.0985	1.3553E-08
17	11.06	END SULFATE	0.0079	20.4793%	517261	15354	33.7	3	21	21	0	1.5344E-08
19	14.18	END KETONE	0.0084	21.7268%	651308	16019	40.7	2	21	21	0	1.2928E-08
21	22.86	MIREX	1.0000	0.0000%	3571451	54213	65.9	1	21	21	0	2.8000E-07

TOTAL AMOUNT = 0.0388

11/9/90

SECONDARY COLUMN

Data File = W:1IC10.PTS Printed on 11-07-1990 at 10:20:38
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/9/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 10:21:29 Version 4.1 **********

* Sample Name: PEST B L2 Data File: W:1IC11 *
* Date: 11-06-1990 22:35:24 Method: W:1PESTB 11-07-1990 10:19:54 # 170 *
* Interface: 0 Cycle#: 11 Operator SKF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * OKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

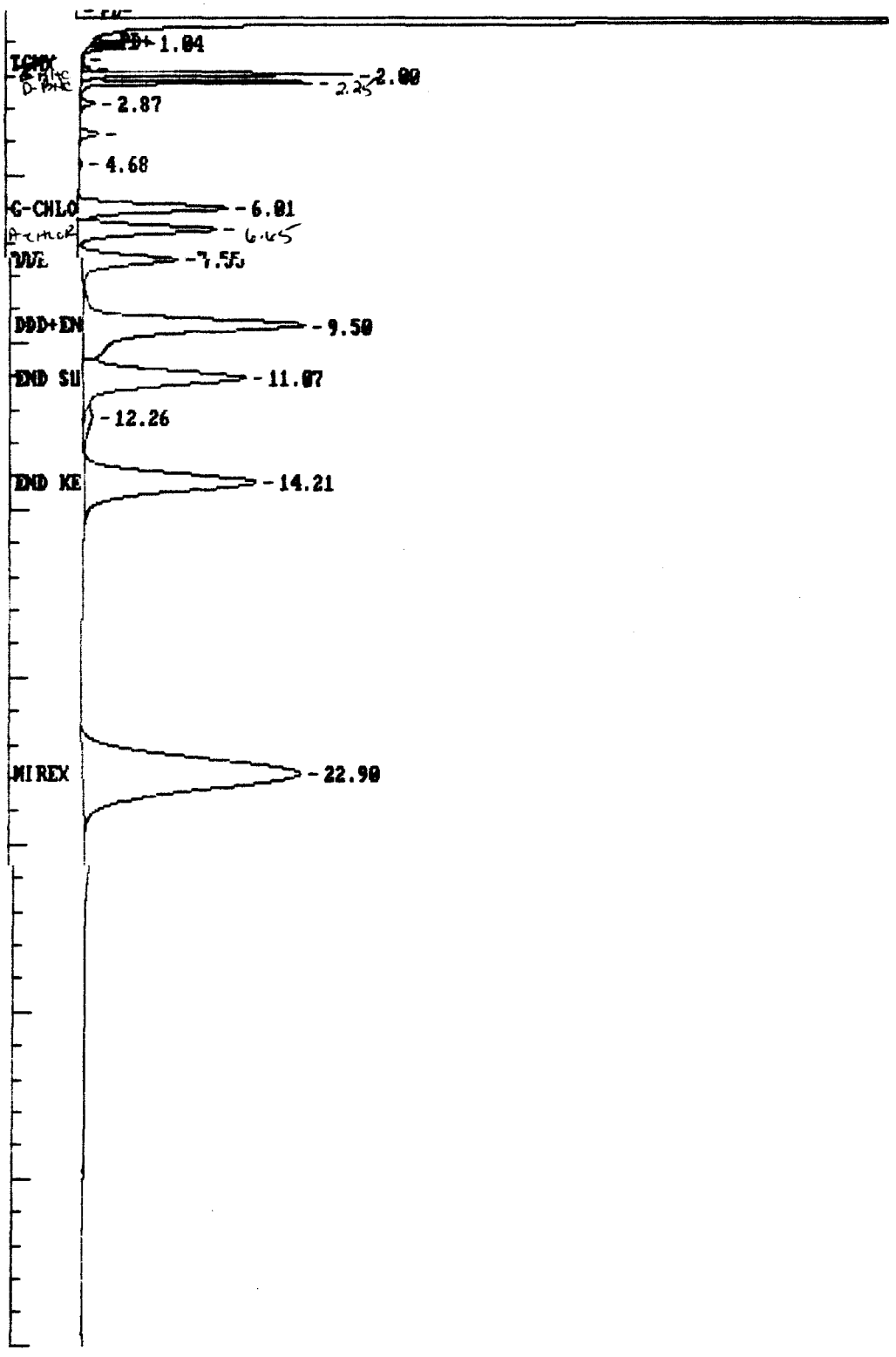
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.52~~	~~TCMX~~	~~0.0000~~	~~0.0377%~~	~~4433~~	~~559~~	~~7.9~~	~~2~~	~~17~~	~~17~~	~~5.558~~	~~7.8595E-09~~
5	2.00	B-BHC	0.0062	6.6801%	398560	66866	6.0	2	17	17	.6564	1.5492E-08
6	2.25	D-BHC	0.0048	5.1758%	352008	56731	6.2	2	17	17	1.308	1.3591E-08
10	6.01	G-CHLOR	0.0061	6.5840%	641053	37137	17.3	2	17	17	.1003	9.4936E-09
11	6.65	A-CHLOR	0.0061	6.5963%	668029	34292	19.5	2	17	17	.1531	9.1273E-09
12	7.55	DDE	0.0072	7.8177%	527686	23628	22.3	2	17	17	0	1.3694E-08
13	9.50	DDD+END ALD	0.0240	25.9627%	1762551	54955	32.1	2	17	17	.1285	1.3616E-08
14	11.07	END SULFATE	0.0190	20.5349%	1315667	40114	32.8	3	17	17	0	1.4427E-08
16	14.21	END KETONE	0.0191	20.6108%	1669019	42580	39.2	2	17	17	0	1.1415E-08
17	22.90	MIREX	1.0000	0.0000%	3541094	53837	65.8	1	17	17	0	2.8240E-07

TOTAL AMOUNT = 0.0924

11/9/90

SECONDARY COLUMN

Data File = W:1IC11.PTS Printed on 11-07-1990 at 10:21:52
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/9/90

SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-07-1990 10:22:45 Version 4.1 **********************
* Sample Name: PEST B L3                          Data File: W:1IC12       *
* Date: 11-06-1990 23:19:34 Method: W:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  12   Operator SKF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width: 10   Threshold: 1  Area Threshold: 100              *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 — Ending retention time: 40.00
Area reject: 0 — One sample per 1.002 sec.
Amount injected: 1.00 — Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

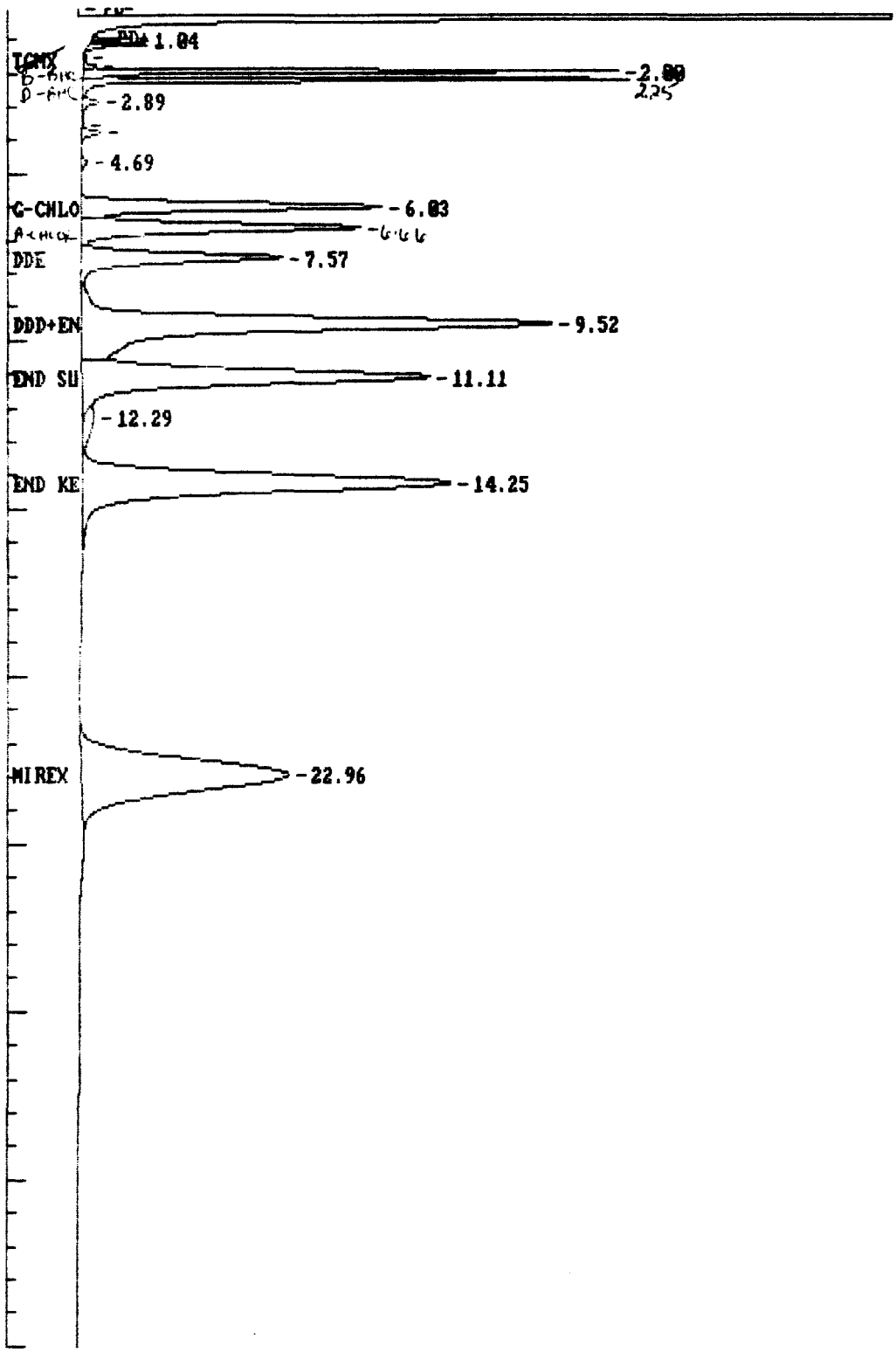
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.52~~	~~TCMX~~	~~0.0000~~	~~0.0194%~~	~~4578~~	~~565~~	~~8.1~~	~~2~~	~~18~~	~~18~~	~~-5.832~~	~~8.2781E-09~~
5	2.00	B-BHC	0.0130	6.6469%	774996	131290	5.9	2	18	18	.3636	1.6791E-08
6	2.25	D-BHC	0.0099	5.0666%	828411	134286	6.2	2	18	18	1.013	1.1974E-08
11	6.03	G-CHLOR	0.0127	6.4941%	1259189	74052	17.0	2	18	18	.0863	1.0097E-08
12	6.66	A-CHLOR	0.0127	6.5070%	1319294	68791	19.2	2	18	18	.1127	9.6559E-09
13	7.57	DDE	0.0149	7.6341%	1060327	49440	21.4	2	18	18	0	1.4095E-08
14	9.52	DDD+END ALD	0.0515	26.2832%	3593007	115425	31.1	2	18	18	0	1.4321E-08
15	11.11	END SULFATE	0.0407	20.7921%	2748404	85626	32.1	3	18	18	0	1.4811E-08
17	14.25	END KETONE	0.0402	20.5567%	3521356	90524	38.9	2	18	18	0	1.1429E-08
18	22.96	MIREX	1.0000	0.0000%	3362064	51013	65.9	1	18	18	0	2.9744E-07

TOTAL AMOUNT = 0.1958

11/9/90

SECONDARY COLUMN

Data File = W:1IC12.PTS Printed on 11-07-1990 at 10:23:07
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



1/9/90

SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-07-1990 10:24:03 Version 4.1 **********************
* Sample Name: PEST B L4                          Data File: W:1IC13       *
* Date: 11-07-1990 00:03:39 Method: W:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  13   Operator SKF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

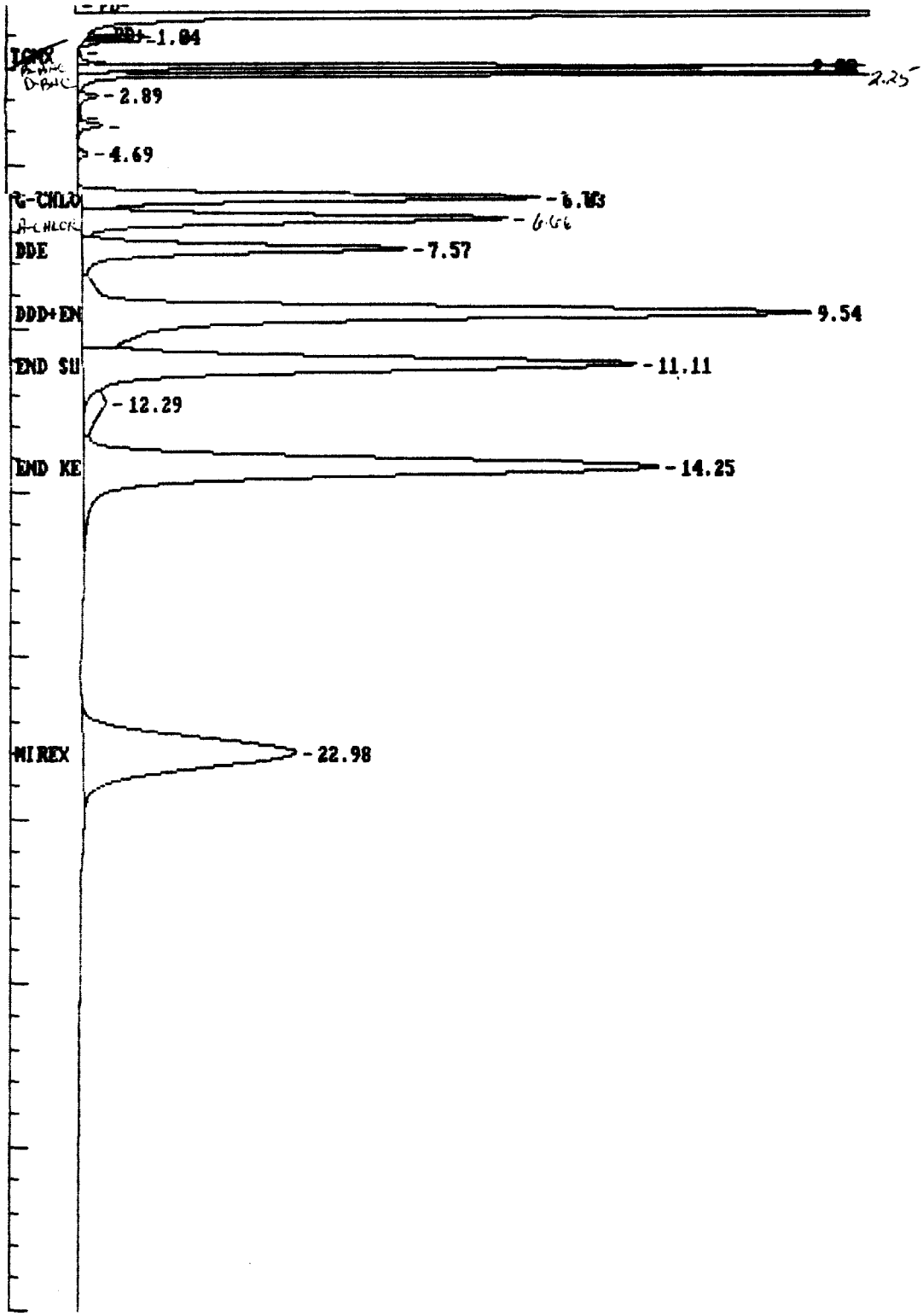
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Kg	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.54~~	~~TGMX~~	~~0.0001~~	~~0.0172%~~	~~6442~~	~~848~~	~~7.6~~	~~2~~	~~18~~	~~18~~	~~4.867~~	~~7.8507E-09~~
5	2.00	B-BHC	0.0189	6.4151%	1174664	197873	5.9	2	18	18	.2907	1.6055E-08
6	2.25	D-BHC	0.0156	5.3023%	1448764	228950	6.3	2	18	18	.9399	1.0759E-08
11	6.03	G-CHLOR	0.0186	6.3335%	1938917	115272	16.8	2	18	18	0	9.6028E-09
12	6.66	A-CHLOR	0.0188	6.3813%	2045908	107091	19.1	2	18	18	0	9.1693E-09
13	7.57	DDE	0.0226	7.6975%	1705056	81720	20.9	2	18	18	-.1501	1.3272E-08
14	9.54	DDD+END ALD	0.0768	26.1099%	5653729	183389	30.8	2	18	18	.1153	1.3576E-08
15	11.11	END SULFATE	0.0619	21.0467%	4438324	139218	31.9	3	18	18	0	1.3940E-08
17	14.25	END KETONE	0.0608	20.6965%	5697843	144809	39.3	2	18	18	0	1.0678E-08
18	22.98	MIREX	1.0000	0.0000%	3545080	53675	66.0	1	18	18	0	2.8208E-07

TOTAL AMOUNT = 0.2940

SU 11/26/90

SECONDARY COLUMN

Data File = W:1IC13.PTS Printed on 11-07-1990 at 10:24:26
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8/11/90

SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-07-1990 10:25:24 Version 4.1 *********************
* Sample Name: PEST B L5                          Data File: W:1IC14      *
* Date: 11-07-1990 00:47:44 Method: W:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  14   Operator SKF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT *DKC
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *  *11/26/90
*************************************************************************
Starting Delay:    0.00                      Ending retention time:    40.00
Area reject:        0                        One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	2.00	B-BHC	0.0247	6.4613%	1540300	258270	6.0	2	17	17	0	1.6011E-08
6	2.27	D-BHC	0.0210	5.5020%	2012137	314753	6.4	2	17	17	1.392	1.0437E-08
11	6.05	G-CHLOR	0.0250	6.5452%	2615750	156003	16.8	2	17	17	0	9.5506E-09
12	6.68	A-CHLOR	0.0249	6.5153%	2729282	144109	18.9	2	17	17	0	9.1115E-09
13	7.60	DDE	0.0300	7.8538%	2282419	114717	19.9	2	17	17	0	1.3134E-08
14	9.55	DDD+END ALD	0.0983	25.7414%	7289140	244318	29.8	2	17	17	0	1.3479E-08
15	11.14	END SULFATE	0.0785	20.5678%	5688359	187130	30.4	2	17	17	0	1.3801E-08
16	14.30	END KETONE	0.0794	20.8132%	7542601	193761	38.9	1	17	17	0	1.0532E-08
17	23.05	MIREX	1.0000	0.0000%	3570021	54133	65.9	1	17	17	0	2.8011E-07

TOTAL AMOUNT = 0.3817

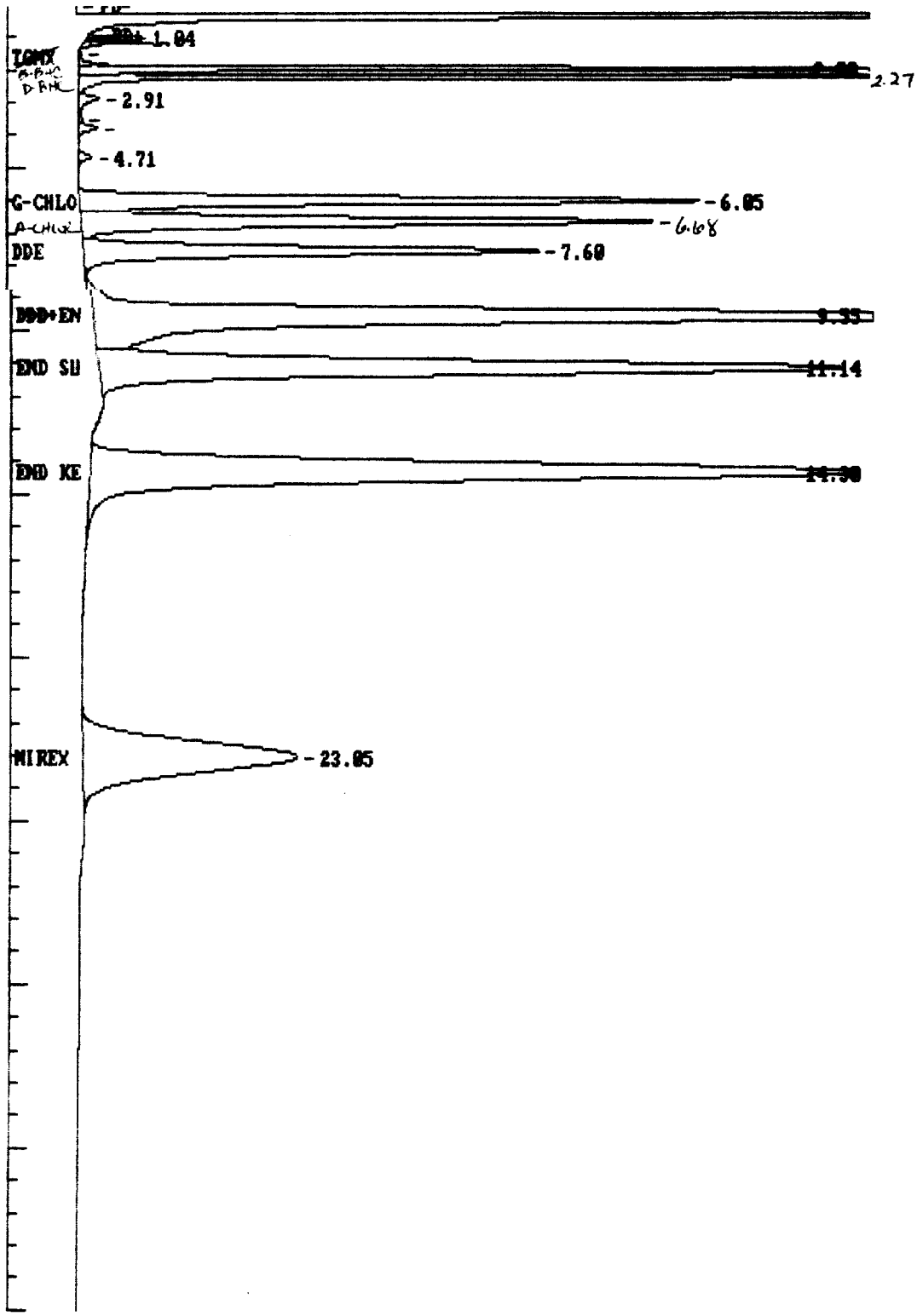
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.62	MIREX

11/9/90

SECONDARY COLUMN

Data File = W:1IC14.PTS Printed on 11-07-1990 at 10:25:47
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts

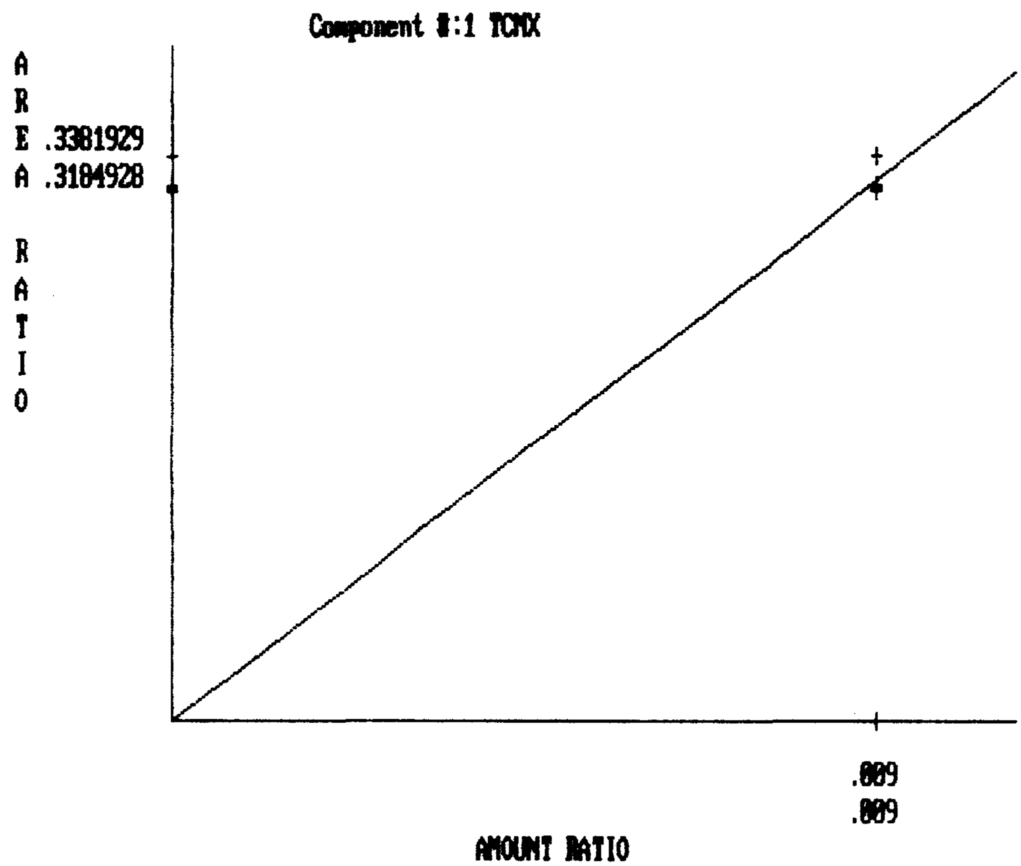


11/13/90

SECONDARY COLUMN

Output redirected to LPT1:

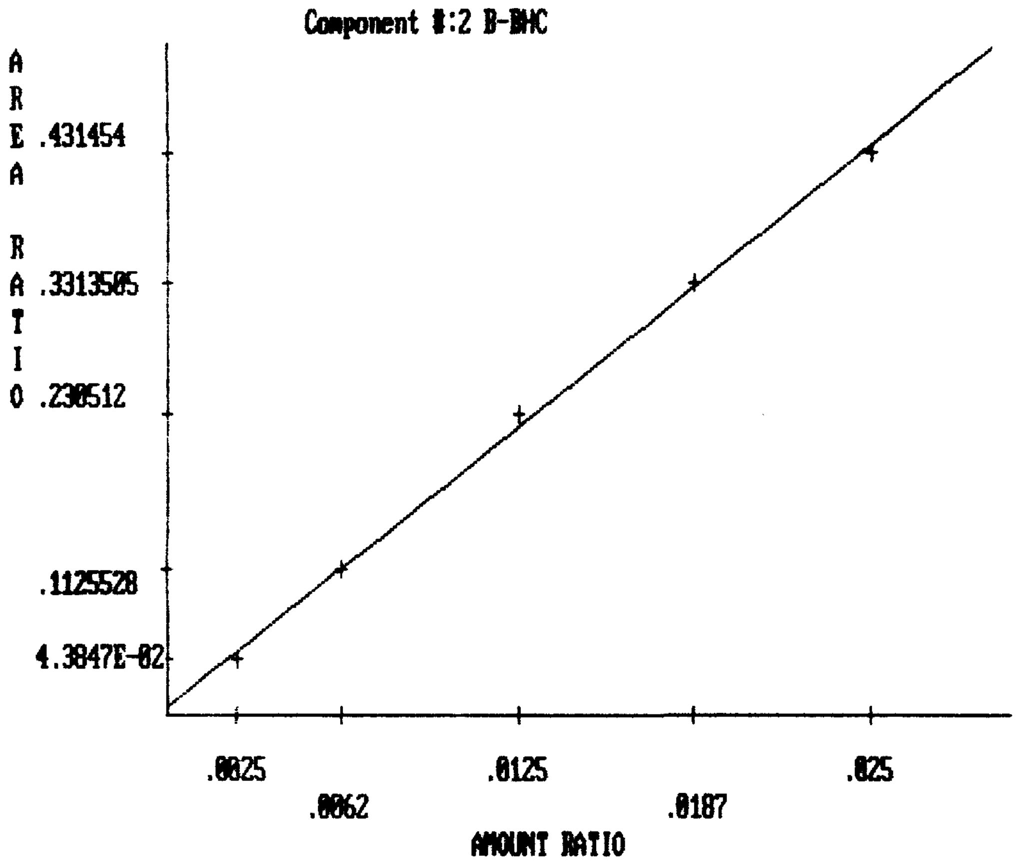
Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 11-07-1990 10:19:54 version: 170
Printed on 11-07-1990 AT 10:27:05
Straight Line fit



Component 1 = TCMX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0090	1137026	0.0090	0.3184
2	0.0090	1137026	0.0090	0.3211
3	0.0090	1137026	0.0090	0.3382
4	0.0090	1137026	0.0090	0.3207
5	0.0090	1137026	0.0090	0.3185

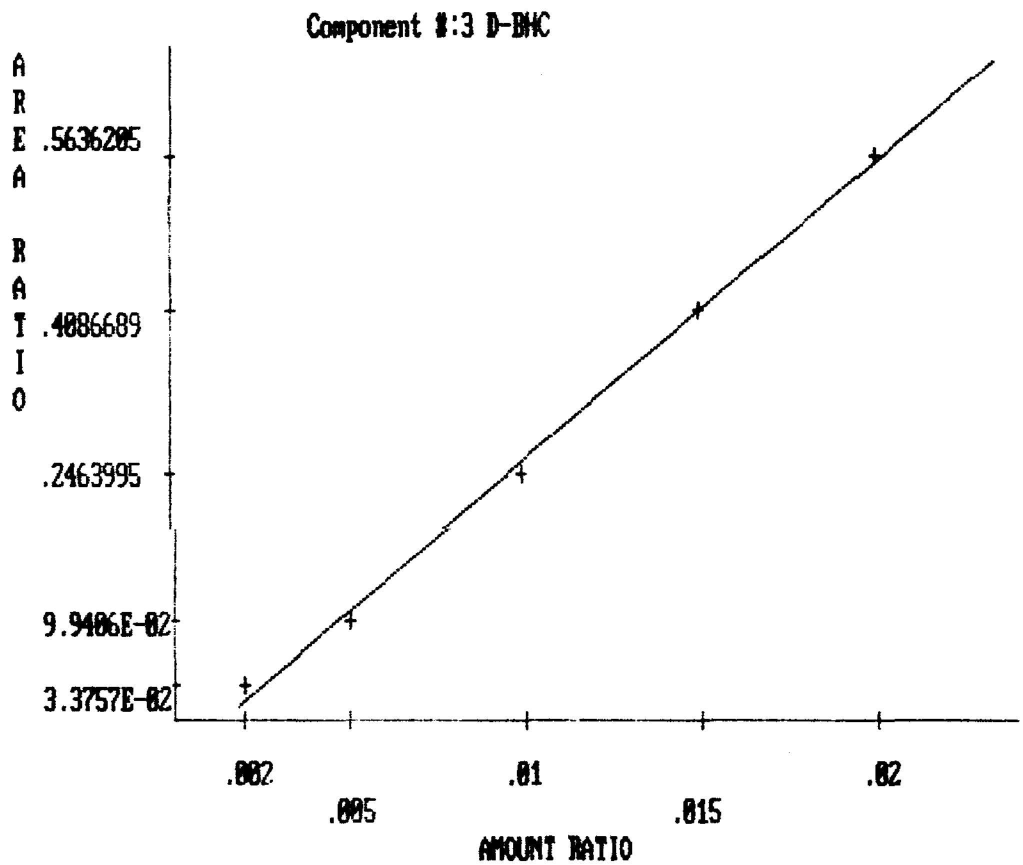
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.5931E+01 * Amt ratio + 0.0000E+00
Amt ratio = 2.7831E-02 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000



Component 2 = B-BHC
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	156599	0.0025	0.0438
2	0.0062	398560	0.0062	0.1126
3	0.0125	774996	0.0125	0.2305
4	0.0187	1174664	0.0187	0.3314
5	0.0250	1540300	0.0250	0.4315

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.7250E+01 * Amt ratio + 6.0405E-03
Amt ratio = 5.7972E-02 * Area ratio + -3.5018E-04
Correlation Coefficient = 0.9985



Component 3 = D-BHC

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0020	120565	0.0020	0.0338
2	0.0050	352008	0.0050	0.0994
3	0.0100	828411	0.0100	0.2464
4	0.0150	1448764	0.0150	0.4087
5	0.0200	2012137	0.0200	0.5636

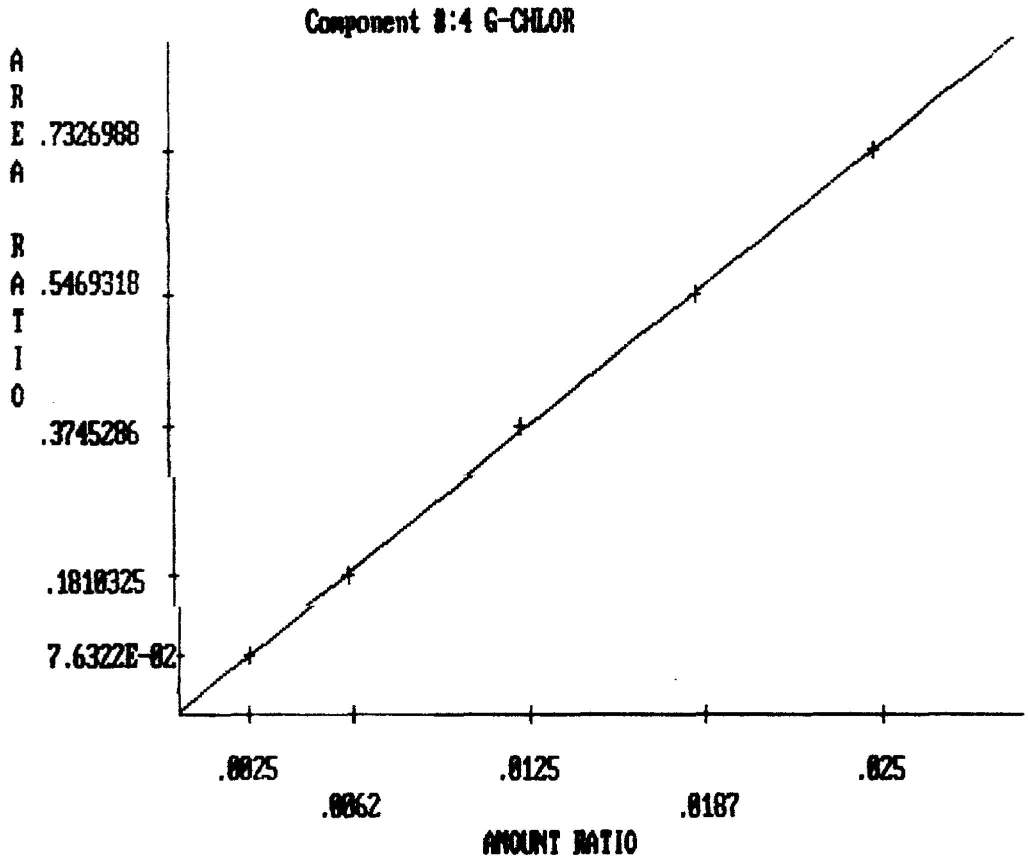
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.9886E+01 * Amt ratio + -4.0444E-02

Amt ratio = 3.3460E-02 * Area ratio + 1.3533E-03

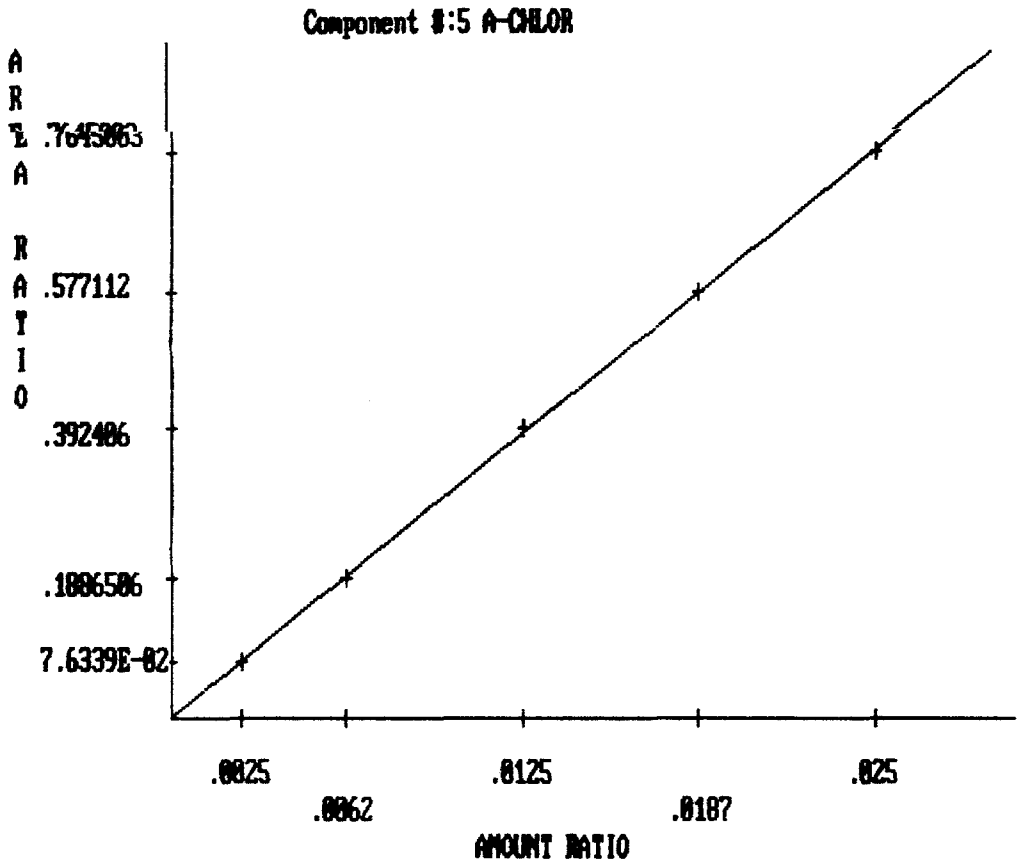
Correlation Coefficient = 0.9975



Component 4 = G-CHLOR
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	272581	0.0025	0.0763
2	0.0062	641053	0.0062	0.1810
3	0.0125	1259189	0.0125	0.3745
4	0.0187	1938917	0.0187	0.5469
5	0.0250	2615750	0.0250	0.7327

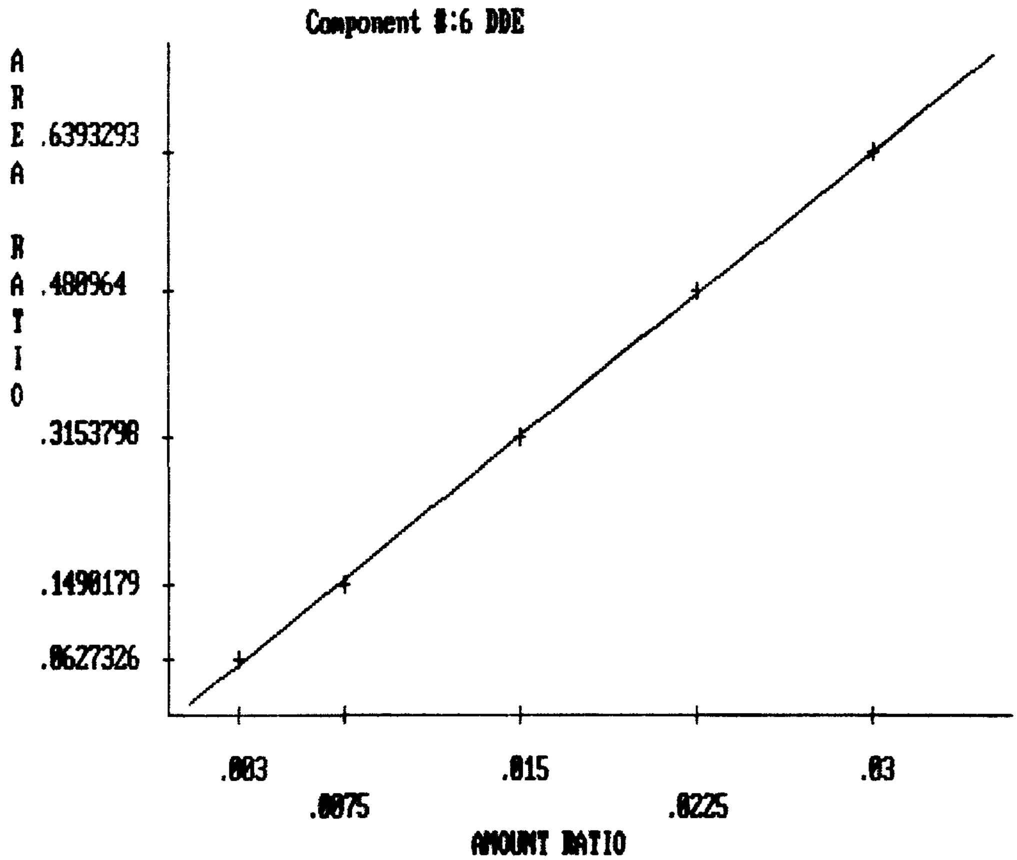
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.9195E+01 * Amt ratio + 3.3569E-03
Amt ratio = 3.4253E-02 * Area ratio + -1.1498E-04
Correlation Coefficient = 0.9998



Component 5 = A-CHLOR
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	272642	0.0025	0.0763
2	0.0062	668029	0.0062	0.1887
3	0.0125	1319294	0.0125	0.3924
4	0.0187	2045908	0.0187	0.5771
5	0.0250	2729282	0.0250	0.7645

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.0678E+01 * Amt ratio + 1.5949E-03
Amt ratio = 3.2596E-02 * Area ratio + -5.1986E-05
Correlation Coefficient = 0.9997



Component 6 = DDE

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	224046	0.0030	0.0627
2	0.0075	527686	0.0075	0.1490
3	0.0150	1060327	0.0150	0.3154
4	0.0225	1705056	0.0225	0.4810
5	0.0300	2282419	0.0300	0.6393

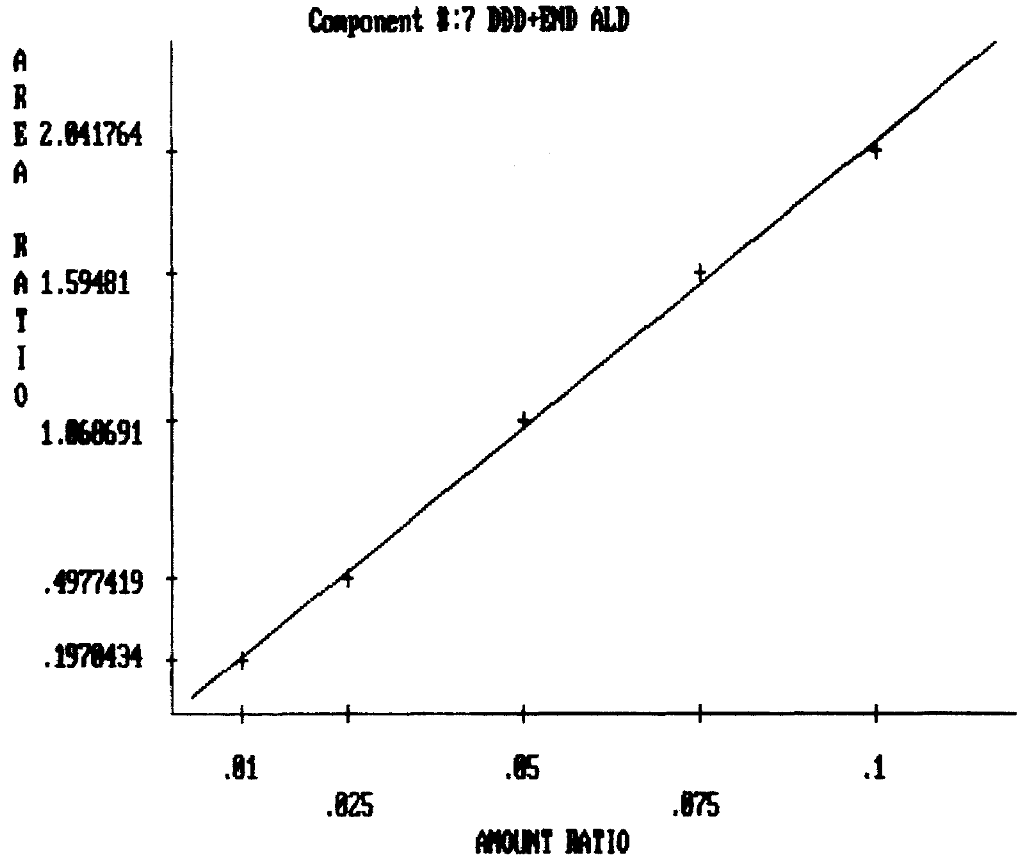
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.1552E+01 * Amt ratio + -6.7198E-03

Amt ratio = 4.6400E-02 * Area ratio + 3.1180E-04

Correlation Coefficient = 0.9997



Component 7 = DDD+END ALD

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0100	703731	0.0100	0.1970
2	0.0250	1762551	0.0250	0.4977
3	0.0500	3593007	0.0500	1.0687
4	0.0750	5653729	0.0750	1.5948
5	0.1000	7289140	0.1000	2.0418

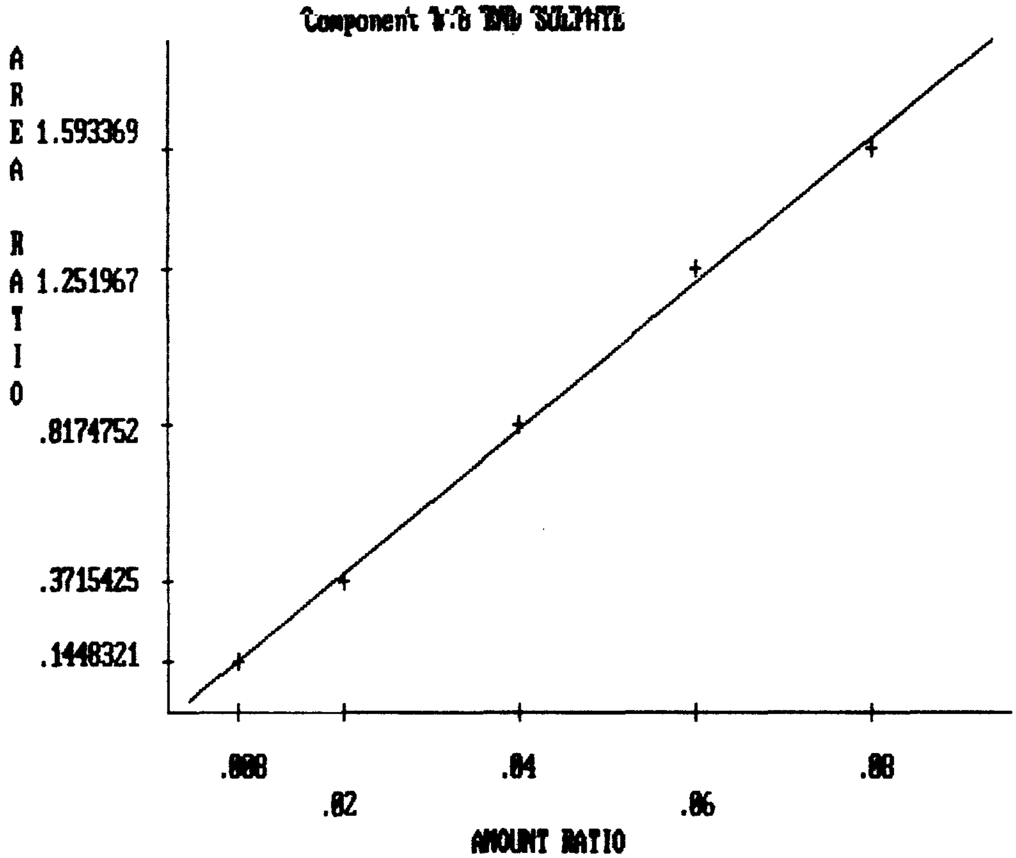
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.0794E+01 * Amt ratio + -1.2881E-03

Amt ratio = 4.8090E-02 * Area ratio + 6.1946E-05

Correlation Coefficient = 0.9982



Component 8 = END SULFATE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0080	517261	0.0080	0.1448
2	0.0200	1315667	0.0200	0.3715
3	0.0400	2748404	0.0400	0.8175
4	0.0600	4438324	0.0600	1.2520
5	0.0800	5688359	0.0800	1.5934

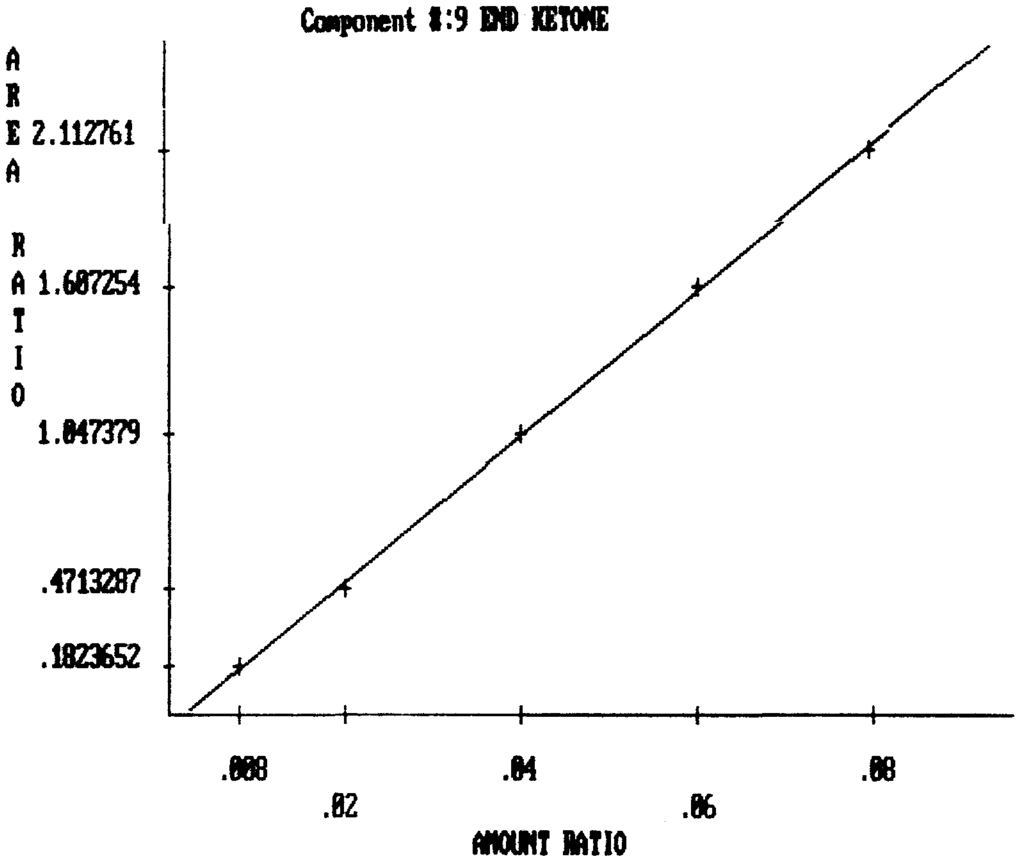
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.0527E+01 * Amt ratio + -1.8089E-02

Amt ratio = 4.8716E-02 * Area ratio + 8.8121E-04

Correlation Coefficient = 0.9979



Component 9 = END KETONE

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0080	651308	0.0080	0.1824
2	0.0200	1669019	0.0200	0.4713
3	0.0400	3521356	0.0400	1.0474
4	0.0600	5697843	0.0600	1.6073
5	0.0800	7542601	0.0800	2.1128

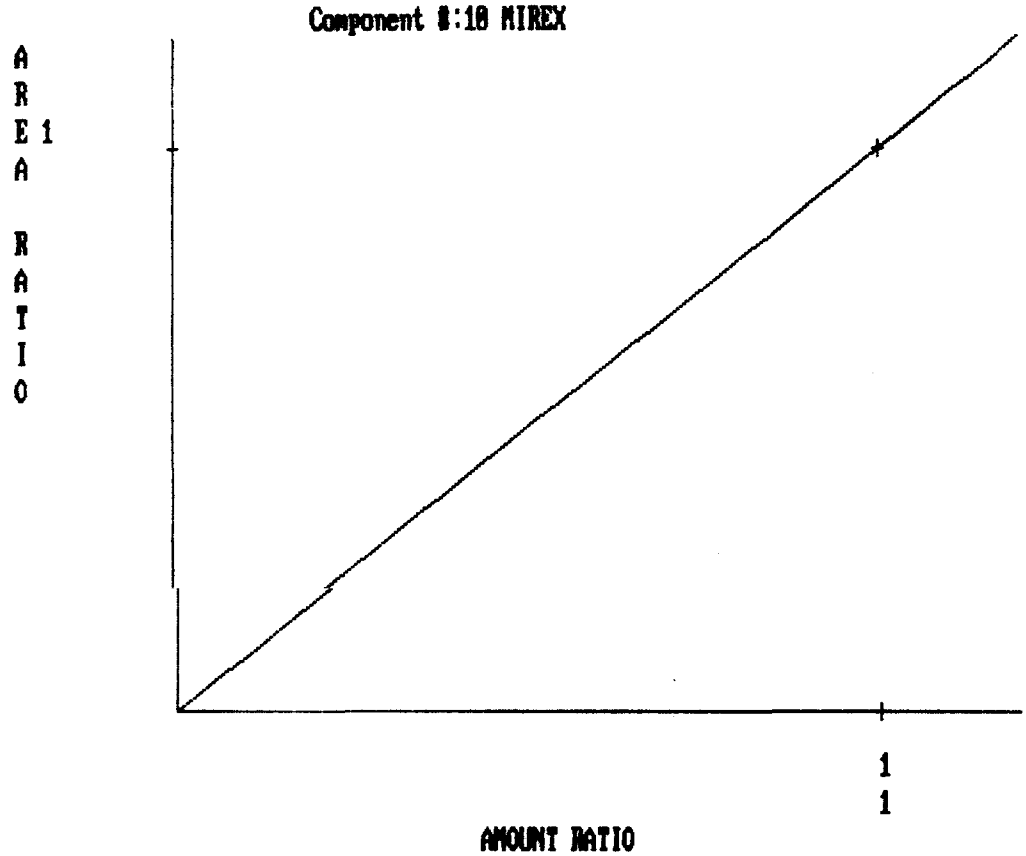
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.7181E+01 * Amt ratio + -4.6508E-02

Amt ratio = 3.6791E-02 * Area ratio + 1.7111E-03

Correlation Coefficient = 0.9994



Component 10 = MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	3571451	1.0000	1.0000
2	1.0000	3541094	1.0000	1.0000
3	1.0000	3362064	1.0000	1.0000
4	1.0000	3545080	1.0000	1.0000
5	1.0000	3570021	1.0000	1.0000

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.0000E+00 * Amt ratio + 0.0000E+00
Amt ratio = 1.0000E+00 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000

SECONDARY COLUMN

Output redirected to LPT1:
PEST B L3 Processed: 11-12-1990 14:17:52, segment 4, cycle 4
RAW DATA SAVED IN FILE U:1ALC04.PTS Second Channel Stored in U:2ALC04.PTS

****** INTERNAL STANDARD TABLE ******

********** 11-12-1990 14:18:02 Version 4.1 **********
* Sample Name: PEST B L3 #3 Data File: U:1ALC04 *
* Date: 11-12-1990 14:17:57 Method: U:1PESTB 11-07-1990 10:19:54 # 170 *
* Interface: 0 Cycle#: 4 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: CONFIRMATORY COLUMN LPT1: * * 11/26/90
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

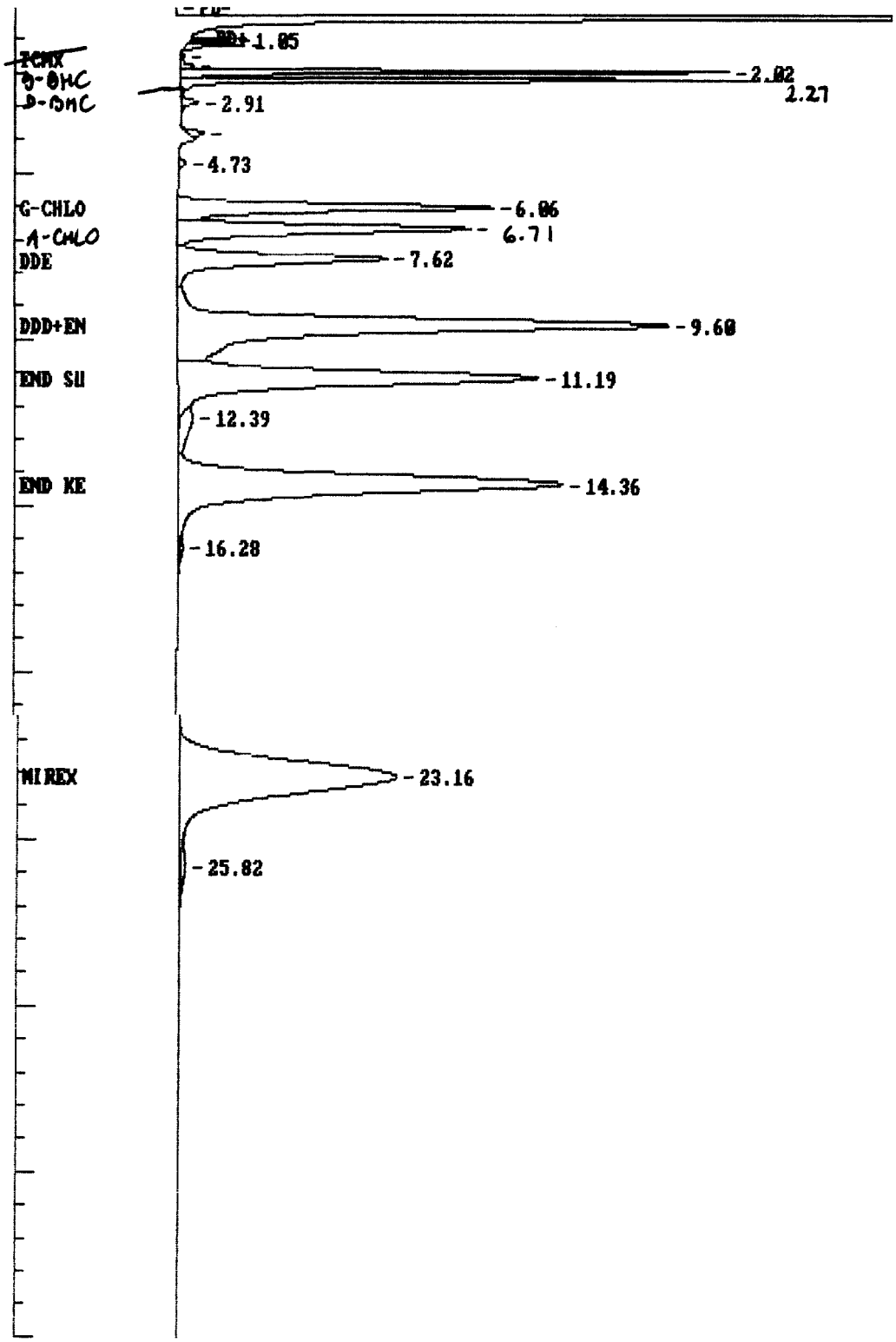
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.54~~	~~TCMX~~	~~0.0001~~	~~0.0330%~~	~~8257~~	~~964~~	~~8.6~~	~~2~~	~~18~~	~~18~~	~~-5.621~~	~~7.6654E-09~~
5	2.02	B-BHC	0.0127	6.6178%	817242	135687	6.0	2	18	18	.3244	1.5538E-08
6	2.27	D-BHC	0.0098	5.0858%	877965	142697	6.2	2	18	18	.8811	1.1115E-08
10	6.06	G-CHLOR	0.0124	6.4733%	1328815	78155	17.0	2	18	18	-.2298	9.3475E-09
11	6.71	A-CHLOR	0.0125	6.5205%	1399426	72534	19.3	2	18	18	0	8.9406E-09
12	7.62	DDE	0.0146	7.6085%	1117993	51895	21.5	2	18	18	-.2860	1.3059E-08
13	9.60	DDD+END ALD	0.0505	26.3167%	3807816	121333	31.4	2	18	18	0	1.3261E-08
14	11.19	END SULFATE	0.0396	20.6185%	2882955	89058	32.4	3	18	18	0	1.3723E-08
16	14.36	END KETONE	0.0398	20.7259%	3755894	95231	39.4	3	18	18	0	1.0589E-08
18	23.16	MIREX	1.0000	0.0000%	3630779	53669	67.7	3	18	18	0	2.7542E-07

TOTAL AMOUNT = 0.1919

KM 11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC04.ATB
Data File = U:1ALC04.PTS Printed on 11-12-1990 at 14:18:24
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
PEST B L3 Processed: 11-13-1990 16:43:44, segment 10, cycle 15
RAW DATA SAVED IN FILE U:1ALC015.PTS Second Channel Stored in U:2ALC015.PTS

****** INTERNAL STANDARD TABLE ******

```
******************** 11-13-1990 16:43:54 Version 4.1 **********************
* Sample Name: PEST B L3 #4                          Data File: U:1ALC015     *
* Date: 11-13-1990 16:43:49 Method: U:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  15   Operator DKC Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100              *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS         *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN                *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                     *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *    *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	1.97	B-BHC	0.0129	6.3706%	806043	138707	5.8	2	18	18	.3698	1.5985E-08
6	2.22	D-BHC	0.0105	5.2114%	932750	153216	6.1	2	18	18	1.209	1.1301E-08
11	5.93	G-CHLOR	0.0129	6.3548%	1336669	79564	16.8	2	18	18	0	9.6158E-09
12	6.56	A-CHLOR	0.0129	6.3887%	1405200	74179	18.9	2	18	18	.2847	9.1956E-09
13	7.45	DDE	0.0153	7.5477%	1137840	54081	21.0	2	18	18	0	1.3416E-08
14	9.39	DDD+END ALD	0.0526	26.0104%	3857699	127655	30.2	2	18	18	.2865	1.3637E-08
15	10.94	END SULFATE	0.0433	21.4181%	3075622	97255	31.6	3	18	18	.2346	1.4085E-08
17	14.01	END KETONE	0.0419	20.6984%	3853253	100613	38.3	2	18	18	0	1.0865E-08
18	22.58	MIREX	1.0000	0.0000%	3530565	54357	65.0	1	18	18	0	2.8324E-07

TOTAL AMOUNT = 0.2023

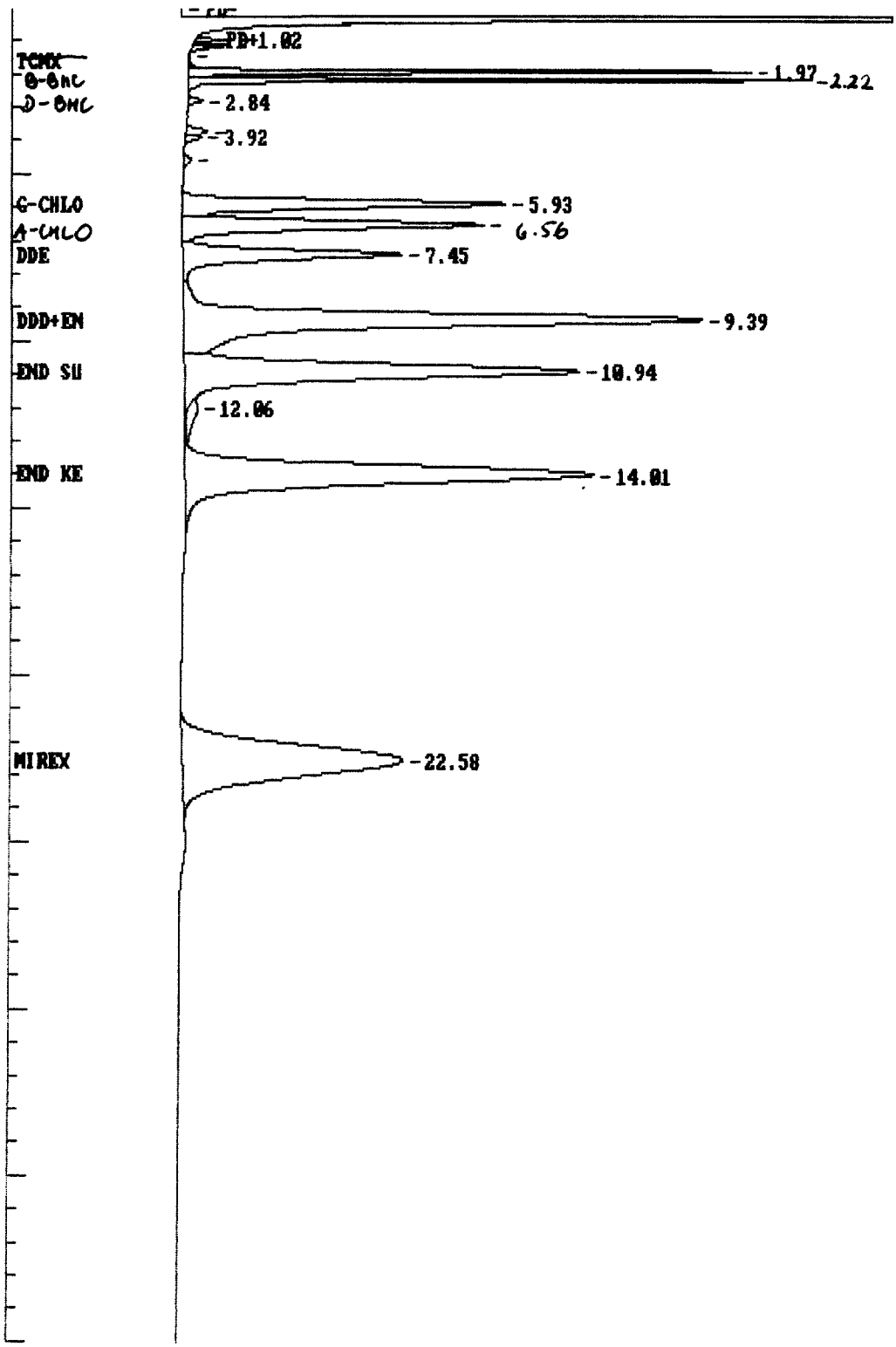
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.59	MIREX

VCM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC015.ATB
Data File = U:1ALC015.PTS Printed on 11-13-1990 at 16:44:16
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VCM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
PEST B L3 Processed: 11-13-1990 23:20:43, segment 4, cycle 24
RAW DATA SAVED IN FILE U:1ALCO24.PTS Second Channel Stored in U:2ALCO24.PTS

****** INTERNAL STANDARD TABLE ******

```
******************** 11-13-1990 23:20:53 Version 4.1 **********************
* Sample Name: PEST B L3 #5                        Data File: U:1ALCO24     *
* Date: 11-13-1990 23:20:48 Method: U:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  24   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	2.02	B-BHC	0.0133	6.4045%	805961	135099	6.0	2	18	18	-.1076	1.6532E-08
6	2.29	D-BHC	0.0108	5.1677%	923286	152190	6.1	2	18	18	1.185	1.1644E-08
11	6.10	G-CHLOR	0.0131	6.3034%	1319610	77469	17.0	2	18	18	-.1122	9.9378E-09
12	6.75	A-CHLOR	0.0132	6.3345%	1386863	72293	19.2	2	18	18	0	9.5025E-09
13	7.67	DDE	0.0156	7.4914%	1124711	52250	21.5	2	18	18	0	1.3857E-08
14	9.64	DDD+END ALD	0.0539	25.9221%	3827278	124826	30.7	2	18	18	0	1.4091E-08
15	11.24	END SULFATE	0.0445	21.3745%	3057084	95544	32.0	3	18	18	0	1.4546E-08
17	14.41	END KETONE	0.0437	21.0018%	3898951	98890	39.4	2	18	18	-.1231	1.1206E-08
18	23.26	MIREX	1.0000	0.0000%	3416782	51745	66.0	1	18	18	0	2.9267E-07

TOTAL AMOUNT = 0.2080

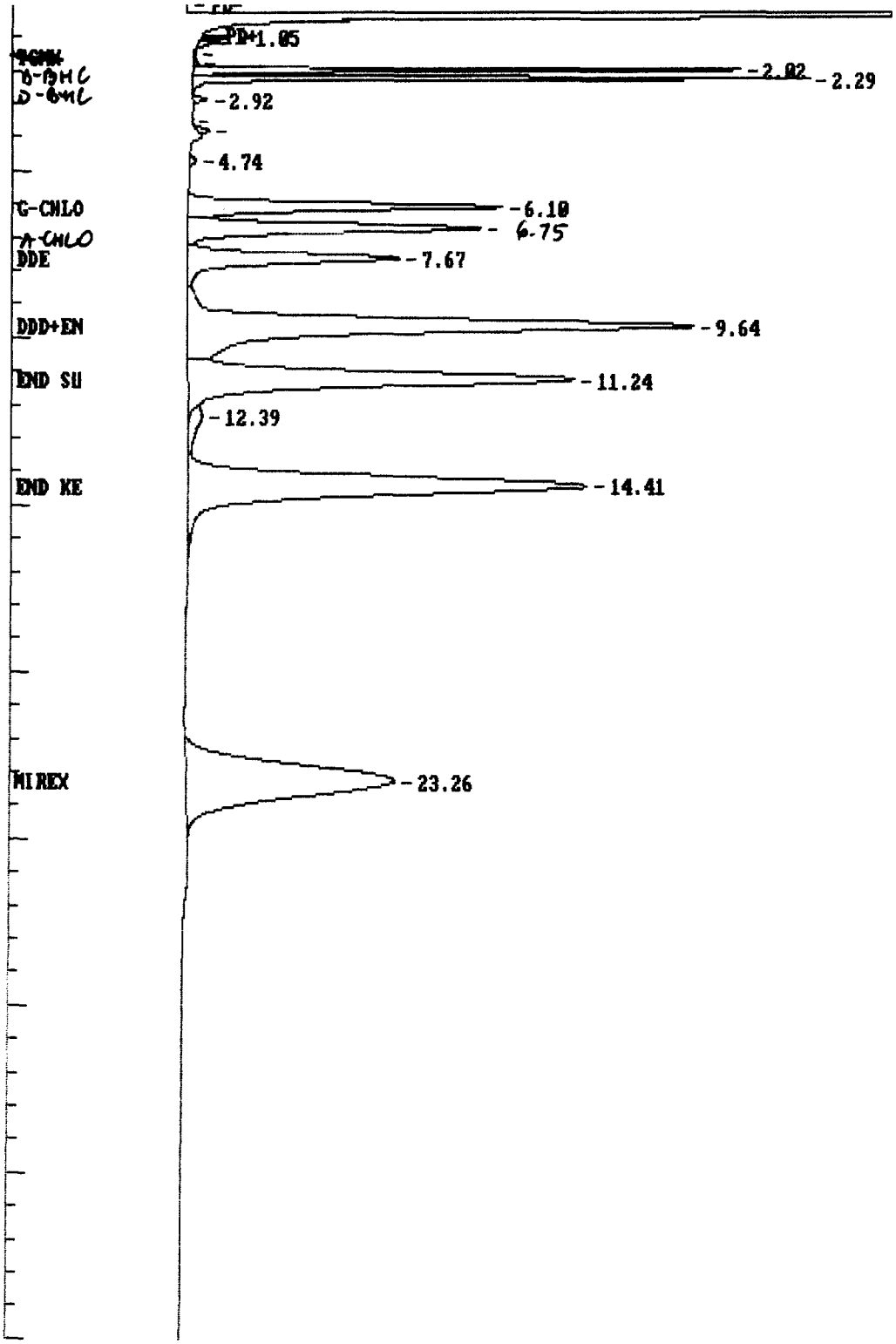
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.63	MIREX

UM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC024.ATB
Data File = U:1ALC024.PTS Printed on 11-13-1990 at 23:21:15
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 15:23:47 Version 4.1 **********

* Sample Name: PCB1242 L1 Data File: W:2IC16 *
* Date: 11-07-1990 02:15:57 Method: W:2PCB1242 11-07-1990 15:23:17 # 192*
* Interface: 0 Cycle#: 16 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ * 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.97	1242-1	0.0123	16.8028%	61346	10566	5.8	1	24	24	0	2.0110E-07
6	2.52	1242-2	0.0134	18.2916%	129366	16221	8.0	2	24	24	0	1.0381E-07
9	3.29	1242-3	0.0134	18.2970%	241469	26533	9.1	2	24	24	0	5.5633E-08
10	3.59	1242-4	0.0159	21.5916%	148709	12020	12.4	2	24	24	-.4629	1.0660E-07
16	6.21	1242-5	0.0184	25.0170%	217160	8033	27.0	2	24	24	0	8.4580E-08
24	24.78	MIREX	1.0000	0.0000%	2587225	43131	60.0	1	24	24	0	3.8651E-07

TOTAL AMOUNT = 0.0734

PEAKS NOT FOUND IN THIS RUN

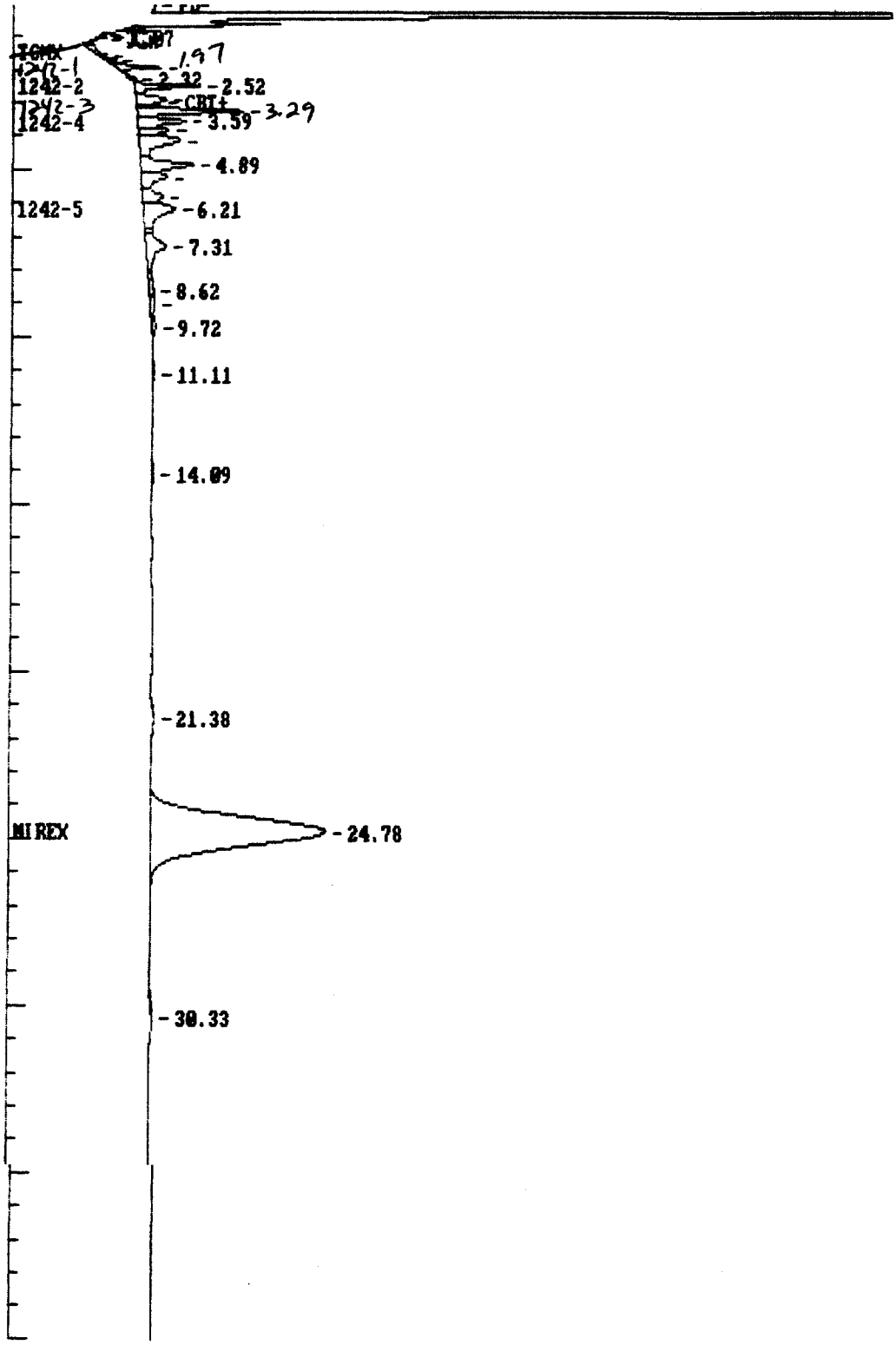
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX

Average = 0.0147

11/9/90

PRIMARY COLUMN

Data File = W:2IC16.PTS Printed on 11-07-1990 at 15:24:05
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/9/90

PRIMARY COLUMN

****** INTERNAL STANDARD TABLE ******

********** 11-07-1990 15:25:04 Version 4.1 **********

* Sample Name: PCB1242 L2 Data File: W:2IC17 *

* Date: 11-07-1990 03:00:05 Method: W:2PCB1242 11-07-1990 15:23:17 # 192*

* Interface: 0 Cycle#: 17 Operator SKF Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC

* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Kml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.97	1242-1	0.1118	19.4899%	208134	34821	6.0	1	24	24	0	5.3701E-07
6	2.52	1242-2	0.1136	19.8173%	395895	51442	7.7	2	24	24	0	2.8707E-07
9	3.29	1242-3	0.1134	19.7791%	706349	80784	8.7	2	24	24	0	1.6059E-07
10	3.61	1242-4	0.1124	19.5911%	344927	32689	10.6	2	24	24	0	3.2572E-07
16	6.21	1242-5	0.1223	21.3226%	548233	23741	23.1	2	24	24	0	2.2304E-07
24	24.78	MIREX	1.0000	0.0000%	2595135	43327	59.9	1	24	24	0	3.8534E-07

TOTAL AMOUNT = 0.5735

PEAKS NOT FOUND IN THIS RUN

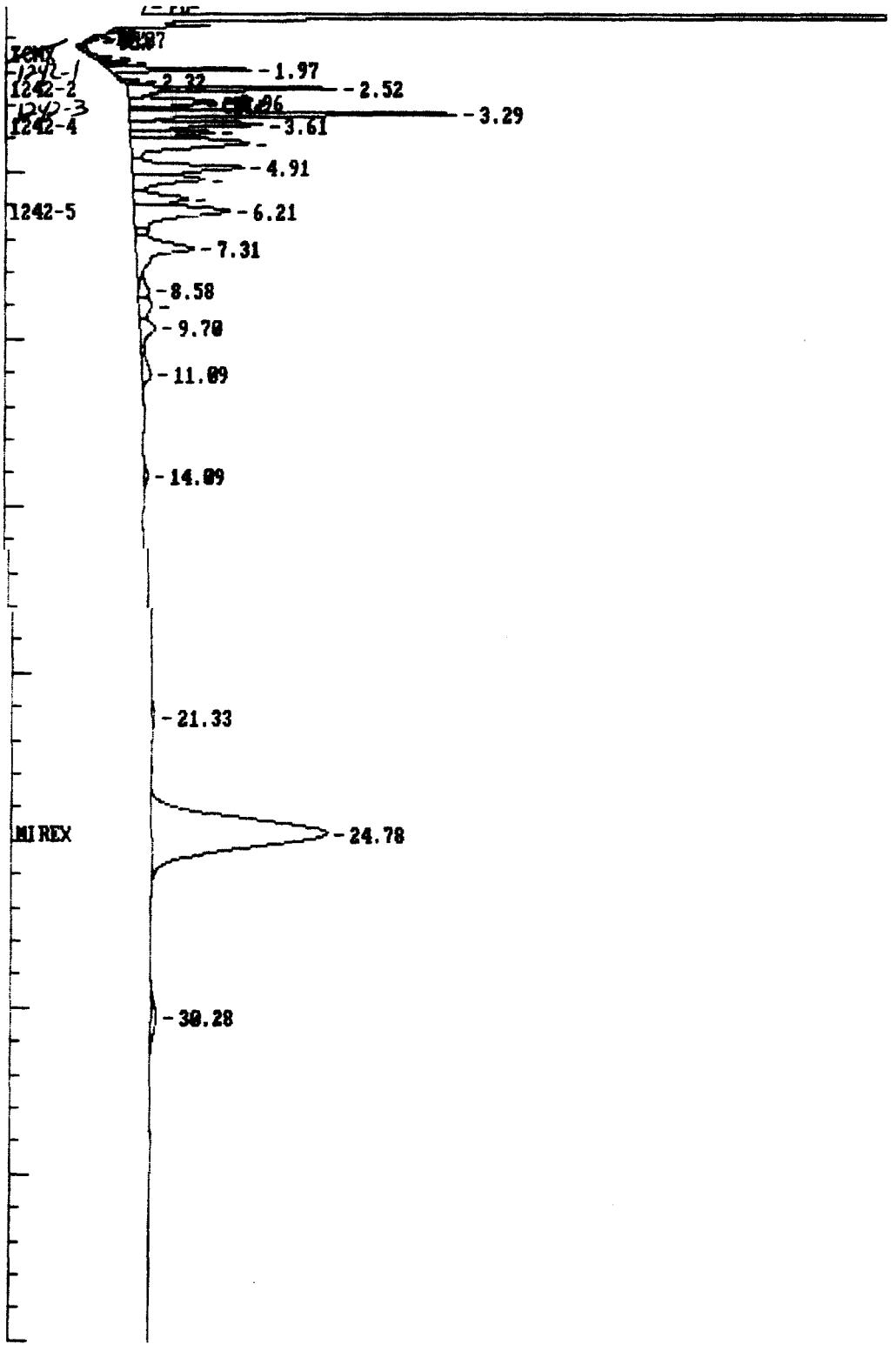
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX

Average = 0.1147

SA 11/9/90

PRIMARY COLUMN

Data File = W:2IC17.PTS Printed on 11-07-1990 at 15:25:22
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
9/19/90

PRIMARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-07-1990 15:26:23 Version 4.1 *********************
* Sample Name: PCB1242 L3                          Data File: W:2IC18      *
* Date: 11-07-1990 03:44:10 Method: W:2PCB1242 11-07-1990 15:23:17  #  192*
* Interface: 0   Cycle#:  18   Operator SKF Channel#: 1    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~CONFIRMATORY COLUMN~~                ~~CONFIRMATORY CO~~ *
*************************************************************************
```

DKC 11/26/

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.97	1242-1	0.2245	19.8601%	378129	62099	6.1	1	27	27	0	5.9376E-07
6	2.52	1242-2	0.2230	19.7287%	693271	90658	7.6	2	27	27	0	3.2171E-07
9	3.29	1242-3	0.2235	19.7669%	1229331	141830	8.7	2	27	27	0	1.8178E-07
10	3.61	1242-4	0.2232	19.7403%	575456	56155	10.2	2	27	27	0	3.8780E-07
16	6.21	1242-5	0.2363	20.9041%	920000	41411	22.2	3	27	27	0	2.5687E-07
27	24.80	MIREX	1.0000	0.0000%	2621233	43715	60.0	1	27	27	0	3.8150E-07

TOTAL AMOUNT = 1.1305

PEAKS NOT FOUND IN THIS RUN

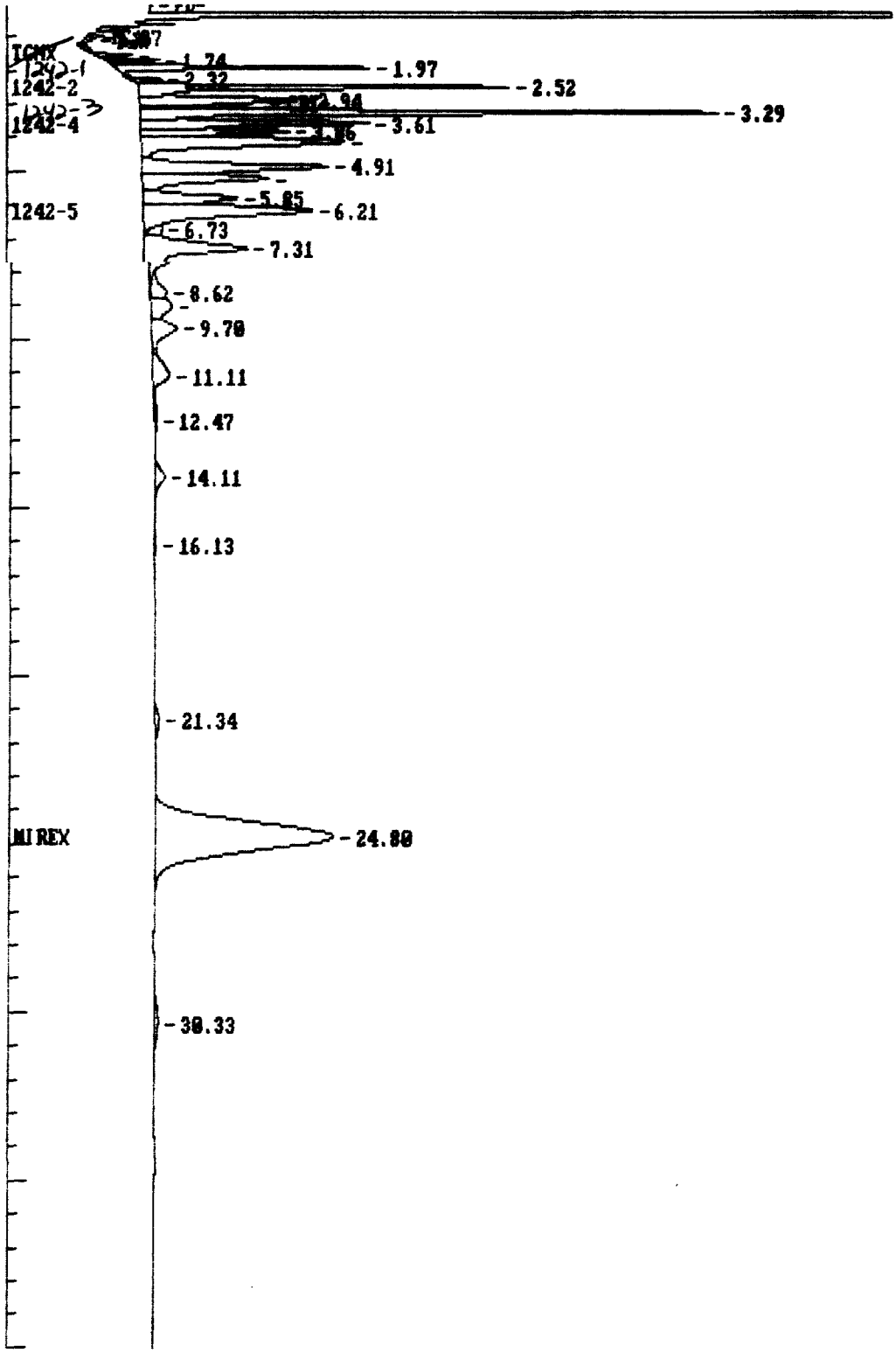
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX

Average = 0.2261

SB 11/9/90

PRIMARY COLUMN

Data File = W:2IC18.PTS Printed on 11-07-1990 at 15:26:40
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/9/90

PRIMARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-07-1990 15:27:44 Version 4.1 **********************
* Sample Name: PCB1242 L4                          Data File: W:2IC19      *
* Date: 11-07-1990 04:28:13 Method: W:2PCB1242 11-07-1990 15:23:17  #  192*
* Interface: 0   Cycle#:  19   Operator SKF Channel#: 1    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~CONFIRMATORY COLUMN~~                ~~CONFIRMATORY CO~~ *
*************************************************************************
```

DKC 11/26/9

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Kml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~1.40~~	~~TCMX~~	~~0.0001~~	~~0.0046%~~	~~11063~~	~~795~~	~~13.9~~	~~1~~	~~27~~	~~27~~	~~3.506~~	~~1.0464E-08~~
5	1.97	1242-1	0.5209	20.7008%	811786	131318	6.2	1	27	27	0	6.4169E-07
7	2.52	1242-2	0.5162	20.5151%	1465770	192776	7.6	2	27	27	0	3.5220E-07
10	3.29	1242-3	0.5158	20.4995%	2575584	301421	8.5	2	27	27	0	2.0028E-07
11	3.61	1242-4	0.5125	20.3680%	1157386	115813	10.0	2	27	27	0	4.4284E-07
17	6.20	1242-5	0.4507	17.9120%	1593460	80695	19.7	2	27	27	-.3359	2.8287E-07
27	24.80	MIREX	1.0000	0.0000%	2596505	43355	59.9	1	27	27	0	3.8513E-07

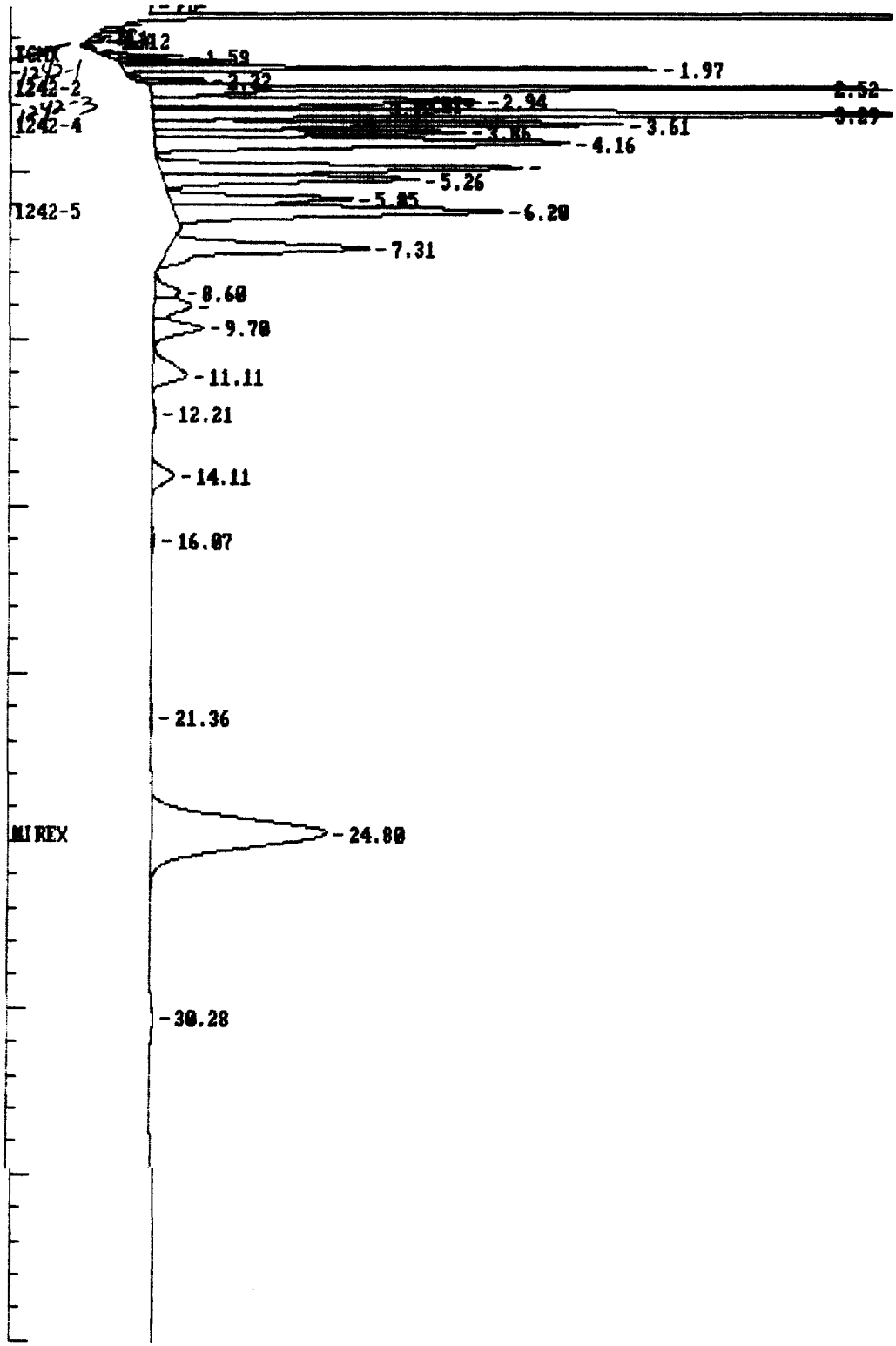
TOTAL AMOUNT = 2.5164

Average = 0.5032

8/19/90

PRIMARY COLUMN

Data File = W:2IC19.PTS Printed on 11-07-1990 at 15:28:02
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/9/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 15:29:06 Version 4.1 **********

* Sample Name: PCB1242 L5 Data File: W:2IC20 *

* Date: 11-07-1990 05:10:18 Method: W:2PCB1242 11-07-1990 15:23:17 # 192*

* Interface: 0 Cycle#: 20 Operator SKF Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * OK

* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ * 11/26/9

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~1.40~~	~~TCMX~~	~~0.0001~~	~~0.0037%~~	~~13373~~	~~1261~~	~~10.6~~	~~1~~	~~29~~	~~29~~	~~3.441~~	~~1.0360E-08~~
5	1.97	1242-1	0.7305	19.7078%	1132146	183927	6.2	1	29	29	0	6.4520E-07
7	2.52	1242-2	0.7336	19.7938%	2063922	269435	7.7	2	29	29	0	3.5546E-07
10	3.29	1242-3	0.7338	19.7985%	3623900	423942	8.5	2	29	29	0	2.0250E-07
11	3.61	1242-4	0.7361	19.8597%	1627308	162722	10.0	2	29	29	0	4.5234E-07
17	6.21	1242-5	0.7723	20.8364%	2642708	121144	21.8	3	29	29	0	2.9224E-07
29	24.78	MIREX	1.0000	0.0000%	2622571	43832	59.8	1	29	29	0	3.8131E-07

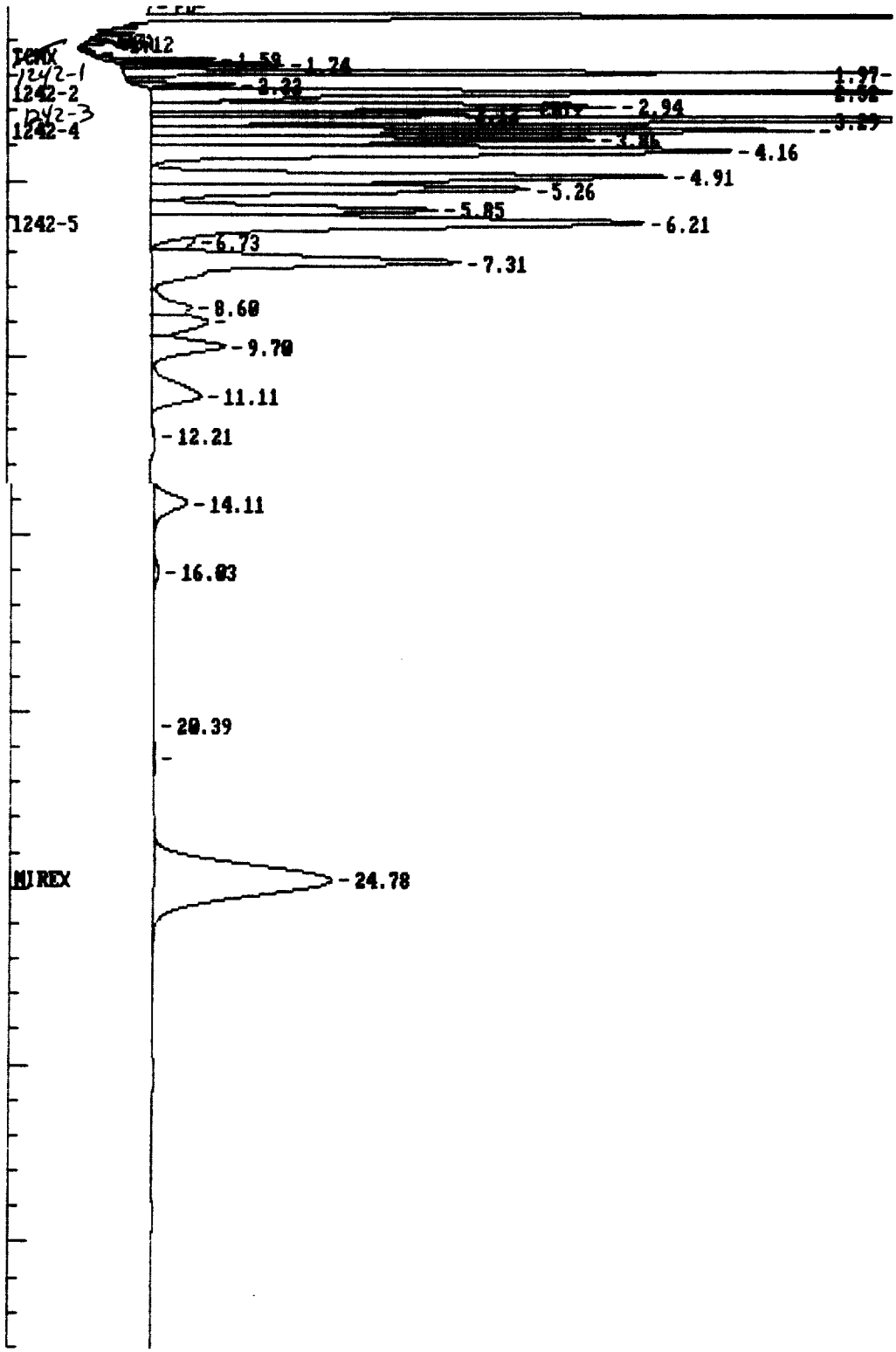
TOTAL AMOUNT = 3.7065

Average = 0.7413

11/9/90

PRIMARY COLUMN

Data File = W:2IC20.PTS Printed on 11-07-1990 at 15:29:24
Start time: 0.00 min. Stop time: 38.01 min. Offset: 0 mv.
Full Range: 200 millivolts



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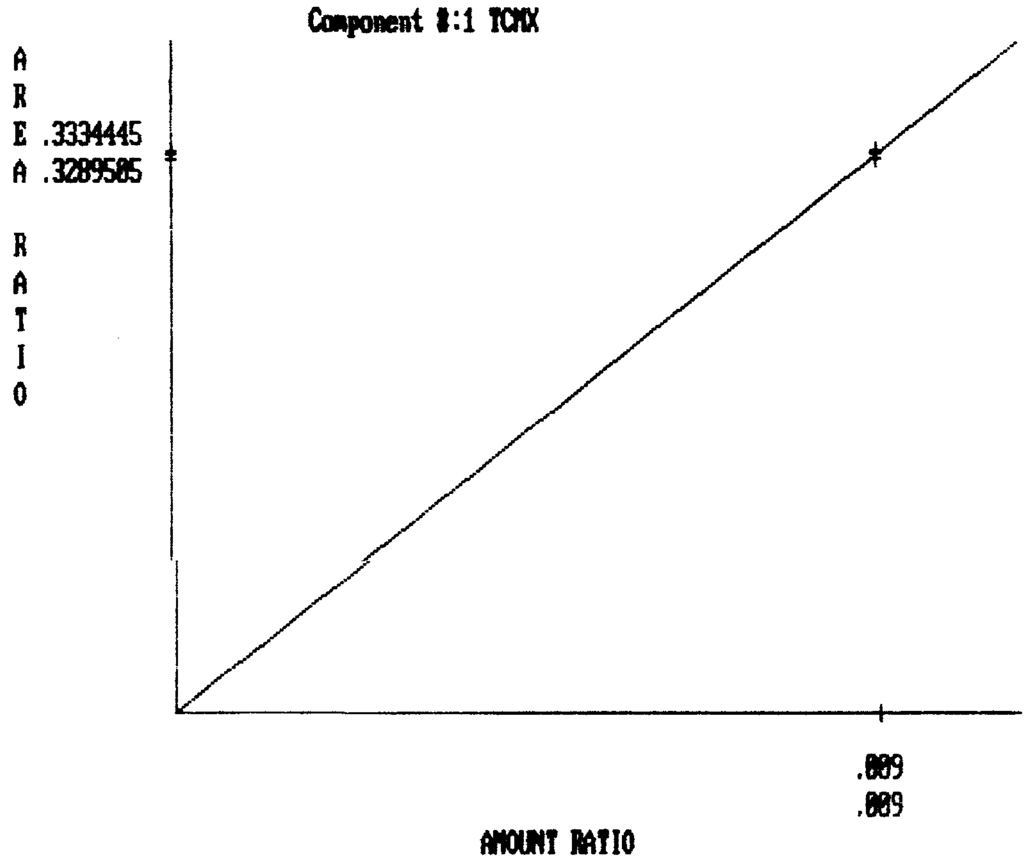
PRIMARY COLUMN

Output redirected to LPT1:

Method W:2PCB1242
Sample MIXED PHASE COLUMN - PCB 1242
Operator DKC
Run date 11-07-1990 15:23:17 version: 192
Printed on 11-07-1990 AT 15:45:05
Straight Line fit



Component 1 = TCMX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0090	862696	0.0090	0.3334
2	0.0090	862696	0.0090	0.3324
3	0.0090	862696	0.0090	0.3291
4	0.0090	862696	0.0090	0.3323
5	0.0090	862696	0.0090	0.3290

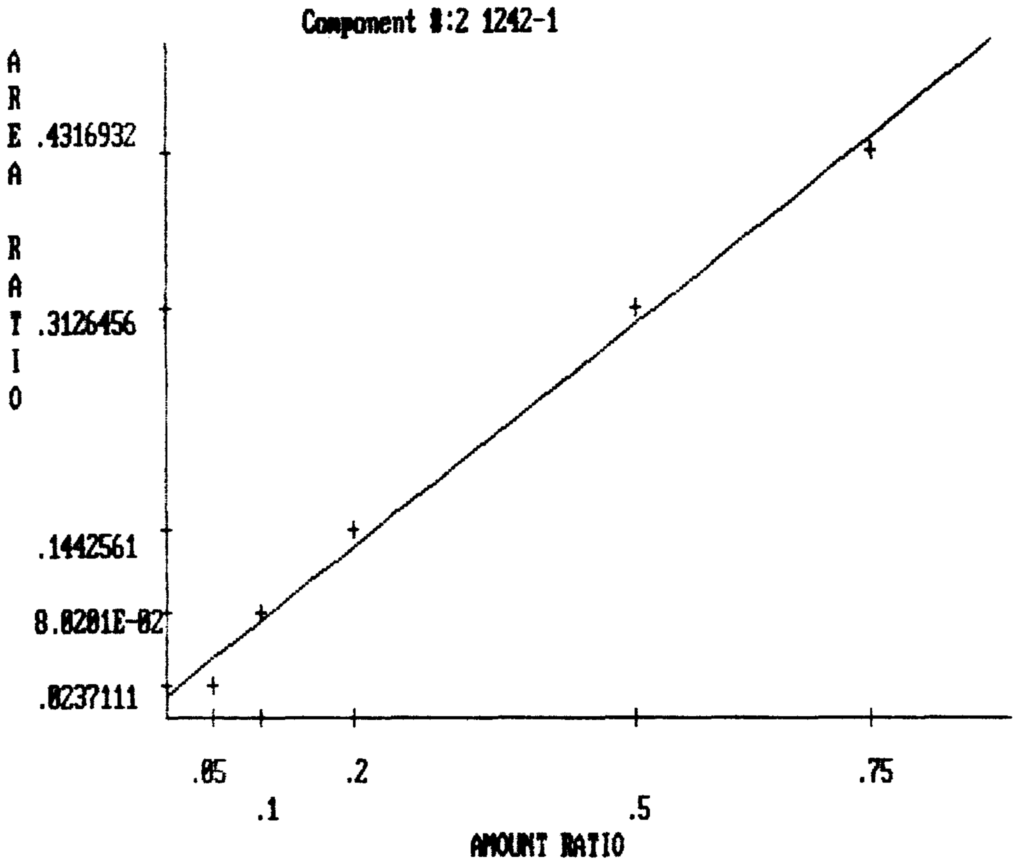
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 3.6804E+01 * Amt ratio + 0.0000E+00

Amt ratio = 2.7171E-02 * Area ratio + 0.0000E+00

Correlation Coefficient = 0.0000



Component 2 = 1242-1

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	61346	0.0500	0.0237
2	0.1000	208134	0.1000	0.0802
3	0.2000	378129	0.2000	0.1443
4	0.5000	811786	0.5000	0.3126
5	0.7500	1132146	0.7500	0.4317

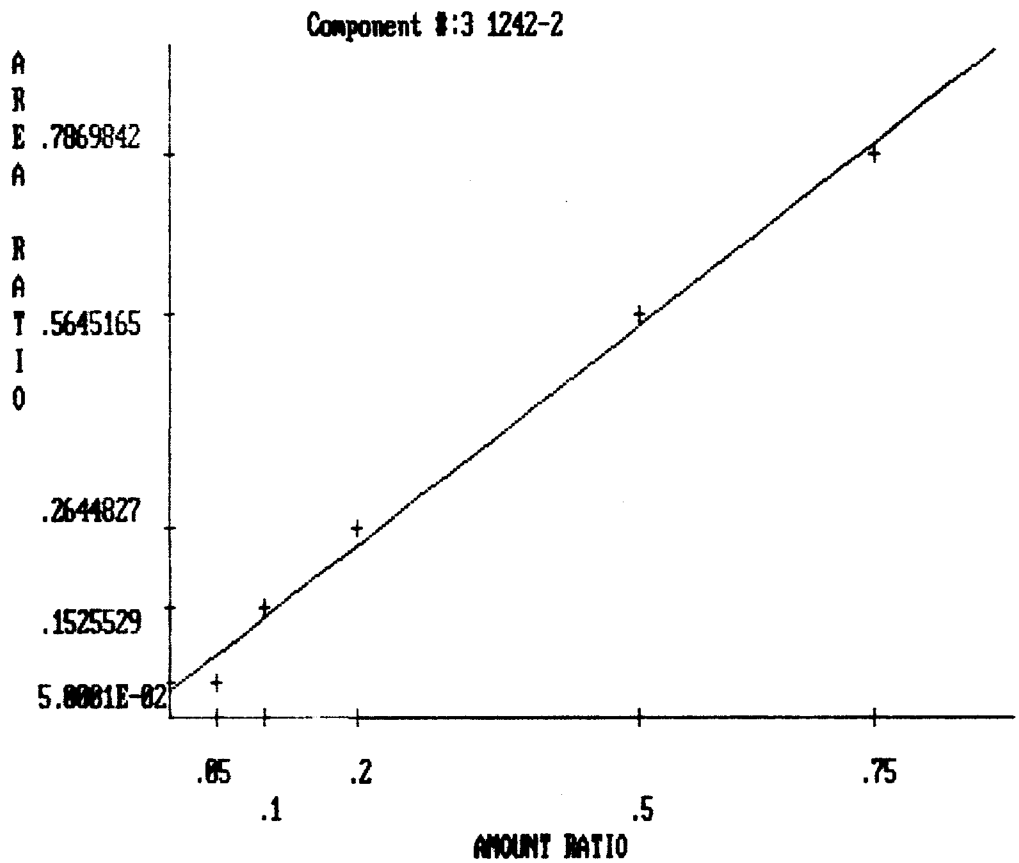
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 5.6812E-01 * Amt ratio + 1.6702E-02

Amt ratio = 1.7602E+00 * Area ratio + -2.9399E-02

Correlation Coefficient = 0.9916



Component 3 = 1242-2
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	129366	0.0500	0.0500
2	0.1000	395895	0.1000	0.1526
3	0.2000	693271	0.2000	0.2645
4	0.5000	1465770	0.5000	0.5645
5	0.7500	2063922	0.7500	0.7870

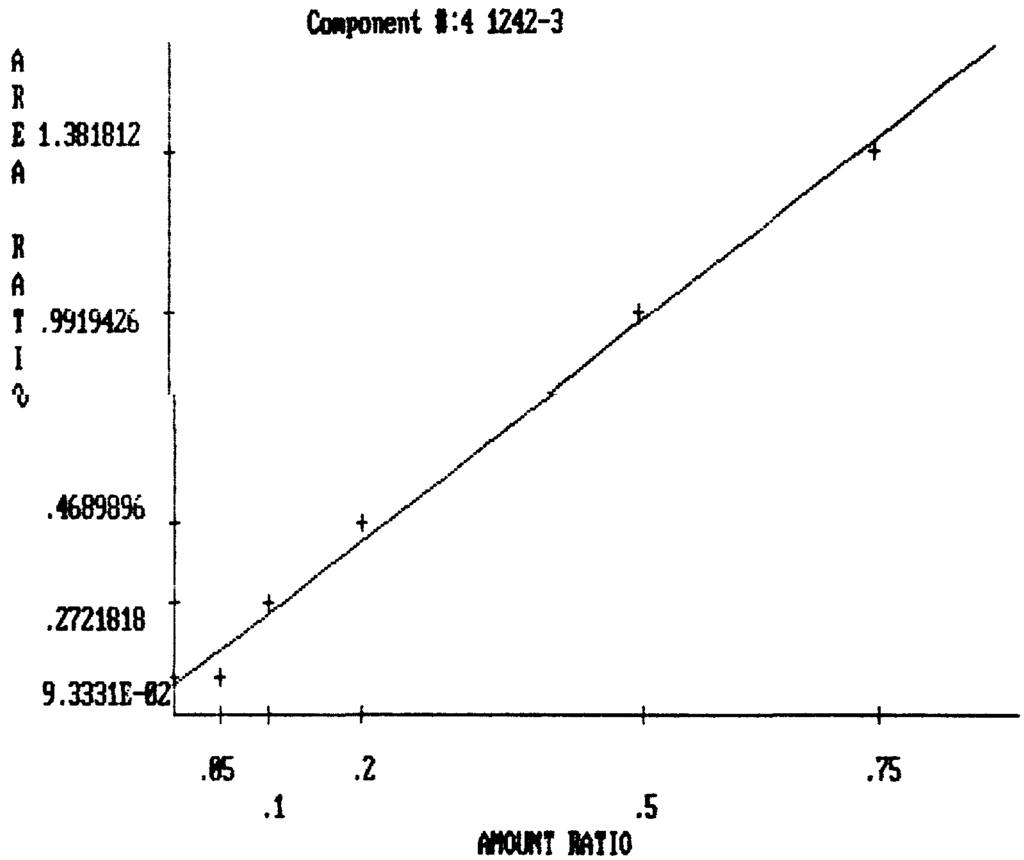
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.0233E+00 * Amt ratio + 3.6260E-02

Amt ratio = 9.7725E-01 * Area ratio + -3.5435E-02

Correlation Coefficient = 0.9927



Component 4 = 1242-3

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	241469	0.0500	0.0933
2	0.1000	706349	0.1000	0.2722
3	0.2000	1229331	0.2000	0.4690
4	0.5000	2575584	0.5000	0.9919
5	0.7500	3623900	0.7500	1.3818

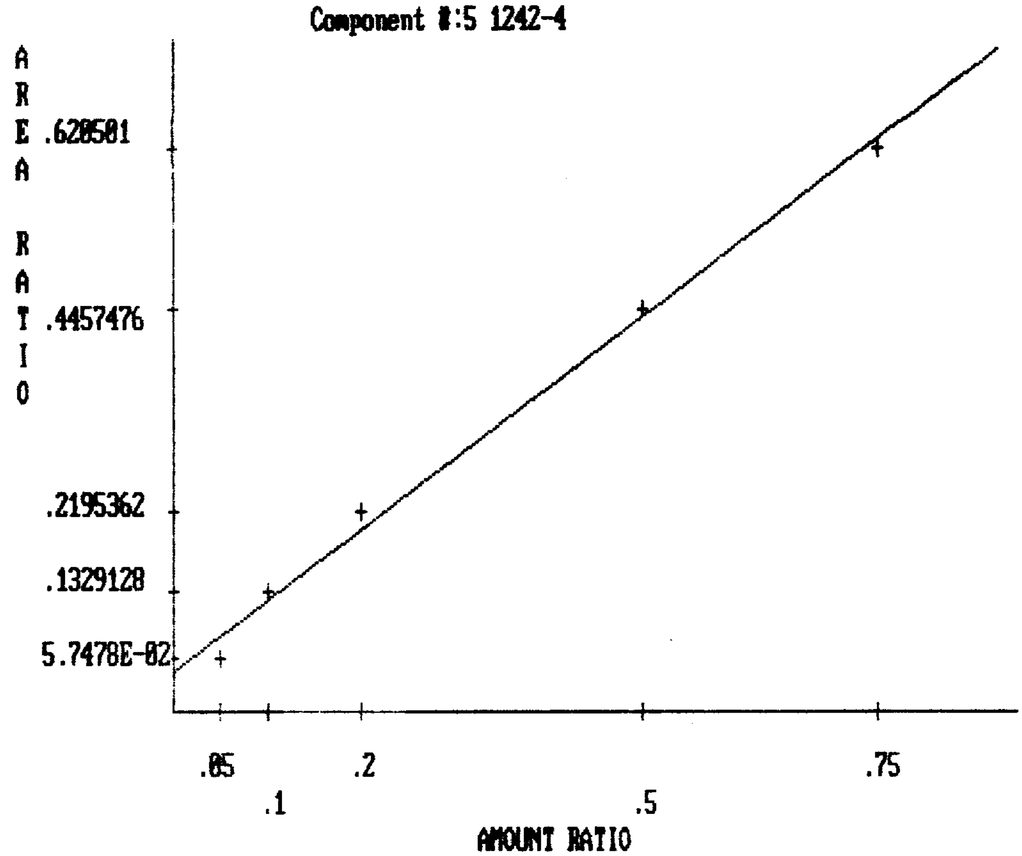
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.7886E+00 * Amt ratio + 6.9304E-02

Amt ratio = 5.5910E-01 * Area ratio + -3.8748E-02

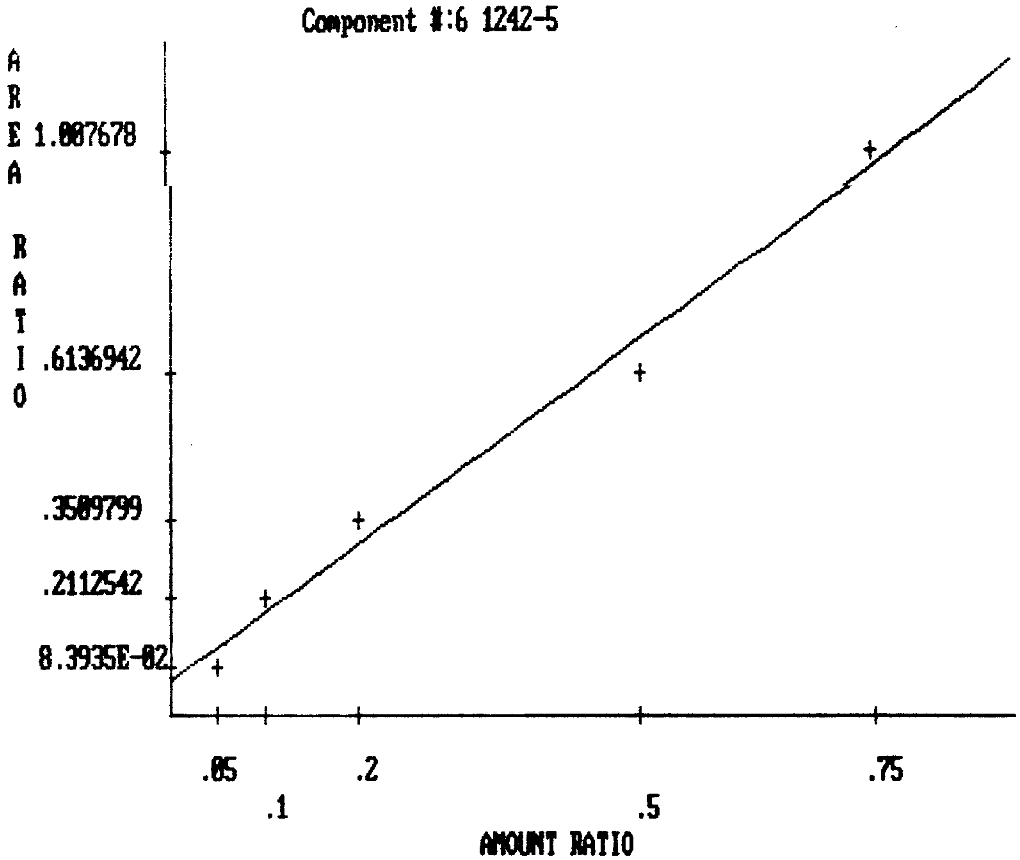
Correlation Coefficient = 0.9927



Component 5 = 1242-4
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	146709	0.0500	0.0575
2	0.1000	344927	0.1000	0.1329
3	0.2000	575456	0.2000	0.2195
4	0.5000	1157386	0.5000	0.4457
5	0.7500	1627308	0.7500	0.6205

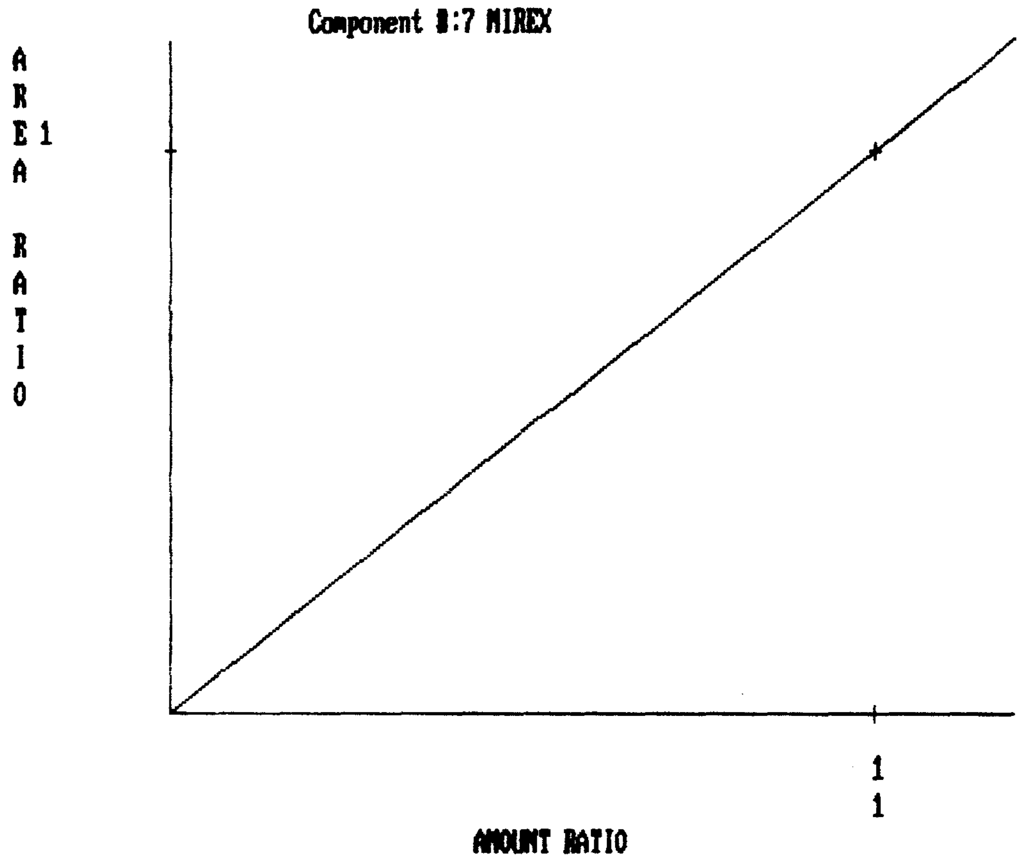
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 7.8172E-01 * Amt ratio + 4.5086E-02
Amt ratio = 1.2792E+00 * Area ratio + -5.7676E-02
Correlation Coefficient = 0.9938



Component 6 = 1242-5
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	217160	0.0500	0.0839
2	0.1000	548233	0.1000	0.2113
3	0.2000	920000	0.2000	0.3510
4	0.5000	1593460	0.5000	0.6137
5	0.7500	2642708	0.7500	1.0077

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.2252E+00 * Amt ratio + 6.1431E-02
Amt ratio = 8.1617E-01 * Area ratio + -5.0138E-02
Correlation Coefficient = 0.9840



Component 7 = MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	2587225	1.0000	1.0000
2	1.0000	2595135	1.0000	1.0000
3	1.0000	2621233	1.0000	1.0000
4	1.0000	2596505	1.0000	1.0000
5	1.0000	2622571	1.0000	1.0000

Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.0000E+00 * Amt ratio + 0.0000E+00

Amt ratio = 1.0000E+00 * Area ratio + 0.0000E+00

Correlation Coefficient = 0.0000

Output redirected to LPT1:
NEW TIMED EVENTS FROM U:2_1242

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 14:05:27 Version 4.1 **********

* Sample Name: PCB 1242 L3 #3 Data File: U:2ALC08 *
* Date: 11-13-1990 11:34:51 Method: U:2_1242 11-16-1990 14:04:39 # 194 *
* Interface: 0 Cycle#: 8 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/KG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.99	1242-1	0.2445	19.2350%	398123	64525	6.2	1	26	26	.1724	6.1409E-07
6	2.56	1242-2	0.2471	19.4416%	739758	95468	7.7	2	26	26	.6462	3.3404E-07
9	3.32	1242-3	0.2410	18.9602%	1280187	146430	8.7	2	26	26	.3390	1.8825E-07
10	3.62	1242-4	0.2495	19.6278%	614345	58886	10.4	2	26	26	-.2094	4.0609E-07
16	6.25	1242-5	0.2890	22.7354%	1063107	43325	24.5	2	26	26	-.1353	2.7182E-07
26	24.95	MIREX	1.0000	0.0000%	2558638	42615	60.0	1	26	26	0	3.9083E-07

TOTAL AMOUNT = 1.2710

PEAKS NOT FOUND IN THIS RUN

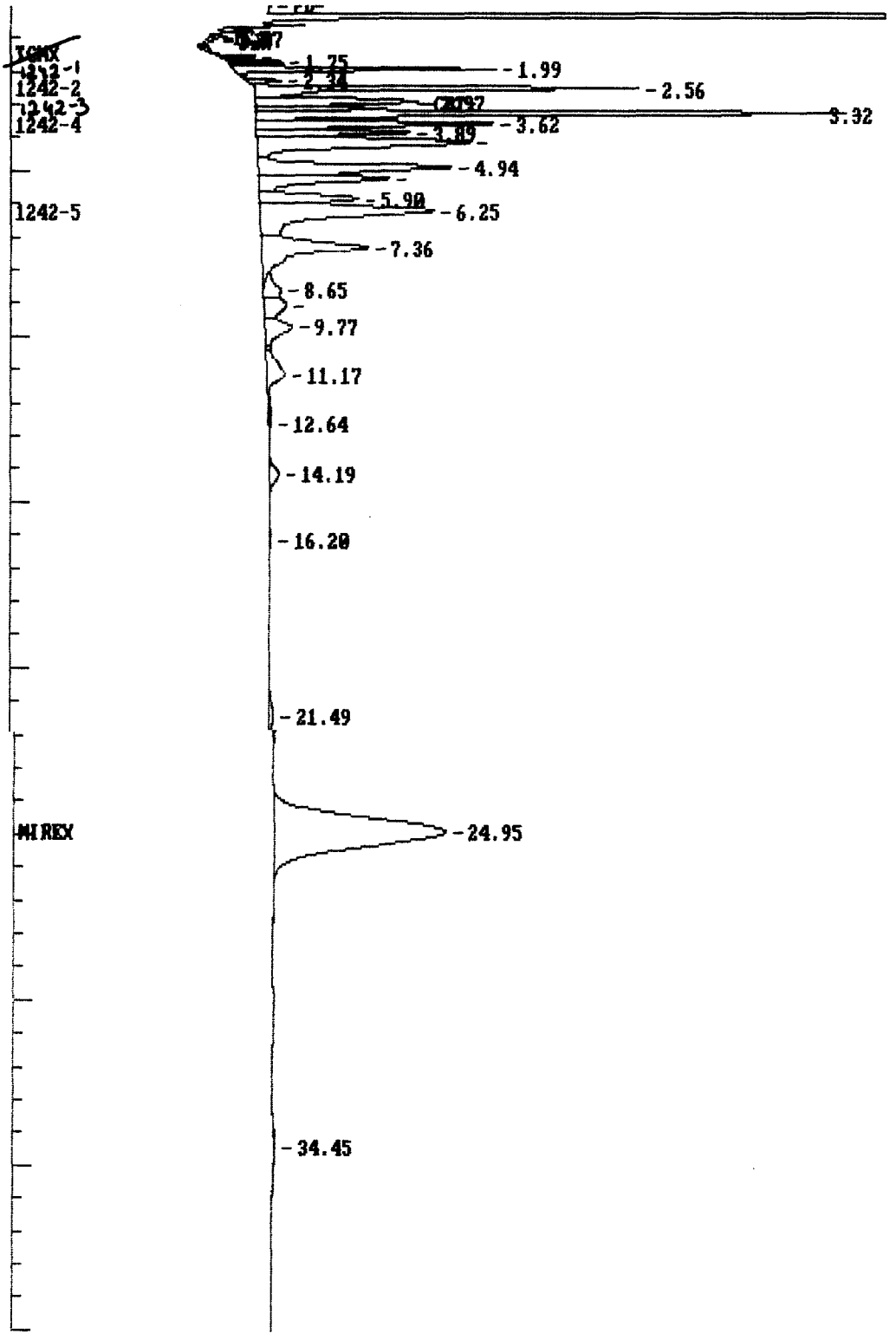
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.46	MIREX

AV: 0.2542
(N=5)

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC08.PTS Printed on 11-16-1990 at 12:18:15
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



WM
11/19/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2_1242

****** INTERNAL STANDARD TABLE ******

```
******************** 11-16-1990 14:06:30 Version 4.1 **********************
* Sample Name: PCB 1242 L3 #4                    Data File: U:2ALC017      *
* Date: 11-13-1990 18:12:05 Method: U:2_1242 11-16-1990 14:04:39  #  194  *
* Interface: 0   Cycle#:  17   Operator DKC Channel#: 1    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~PRIM~~ QUANT *
* Misc. Information: PRIMARY COLUMN                ~~CONFIRMATORY CO~~    *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~ML~~	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.95	1242-1	0.2267	19.8840%	388690	64610	6.0	1	28	28	-.1747	5.8312E-07
6	2.51	1242-2	0.2201	19.3086%	698659	94353	7.4	2	28	28	0	3.1502E-07
9	3.27	1242-3	0.2232	19.5817%	1251901	145197	8.6	2	28	28	.1673	1.7829E-07
10	3.57	1242-4	0.2284	20.0381%	597555	57991	10.3	2	28	28	-.2537	3.8224E-07
16	6.16	1242-5	0.2415	21.1875%	954808	43170	22.1	2	28	28	-.1335	2.5294E-07
28	24.62	MIREX	1.0000	0.0000%	2671975	42287	63.2	1	28	28	0	3.7425E-07

TOTAL AMOUNT = 1.1399

PEAKS NOT FOUND IN THIS RUN

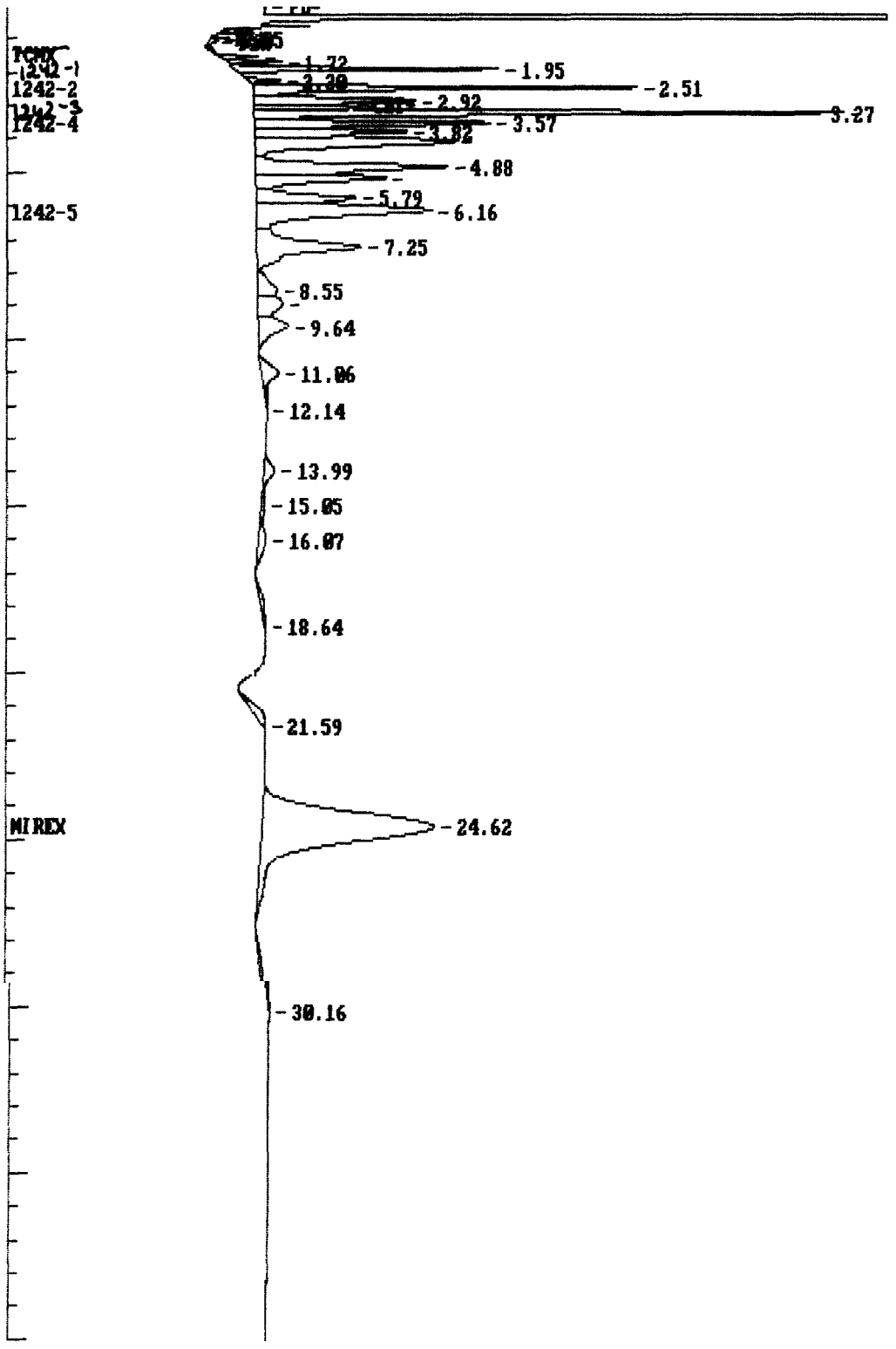
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.44	MIREX

AV= 0.2280
(n=5)

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC017.PTS Printed on 11-16-1990 at 12:57:04
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VCM
11/19/90

NEW TIMED EVENTS FROM U:2_1242

PRIMARY COLUMN

****** INTERNAL STANDARD TABLE ******

********** 11-16-1990 14:08:13 Version 4.1 **********

* Sample Name: PCB 1242 L3 #5 Data File: U:2ALC026 *
* Date: 11-14-1990 00:48:57 Method: U:2_1242 11-16-1990 14:04:39 # 194 *
* Interface: 0 Cycle#: 26 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT ~~CONFIRMATORY CD~~ * DKC
* Misc. Information: PRIMARY COLUMN *11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	2.04	1242-1	0.2501	18.9781%	404030	65356	6.2	1	27	27	.4126	6.1911E-07
6	2.62	1242-2	0.2538	19.2586%	753055	96805	7.8	2	27	27	.9795	3.3708E-07
9	3.41	1242-3	0.2441	18.5227%	1287209	147815	8.7	2	27	27	.5713	1.8966E-07
10	3.72	1242-4	0.2616	19.8499%	635016	59322	10.7	2	27	27	.2678	4.1201E-07
16	6.40	1242-5	0.3083	23.3908%	1117292	43111	25.9	2	27	27	0	2.7594E-07
27	25.52	MIREX	1.0000	0.0000%	2544066	42015	60.6	1	27	27	0	3.9307E-07

TOTAL AMOUNT = 1.3180

PEAKS NOT FOUND IN THIS RUN

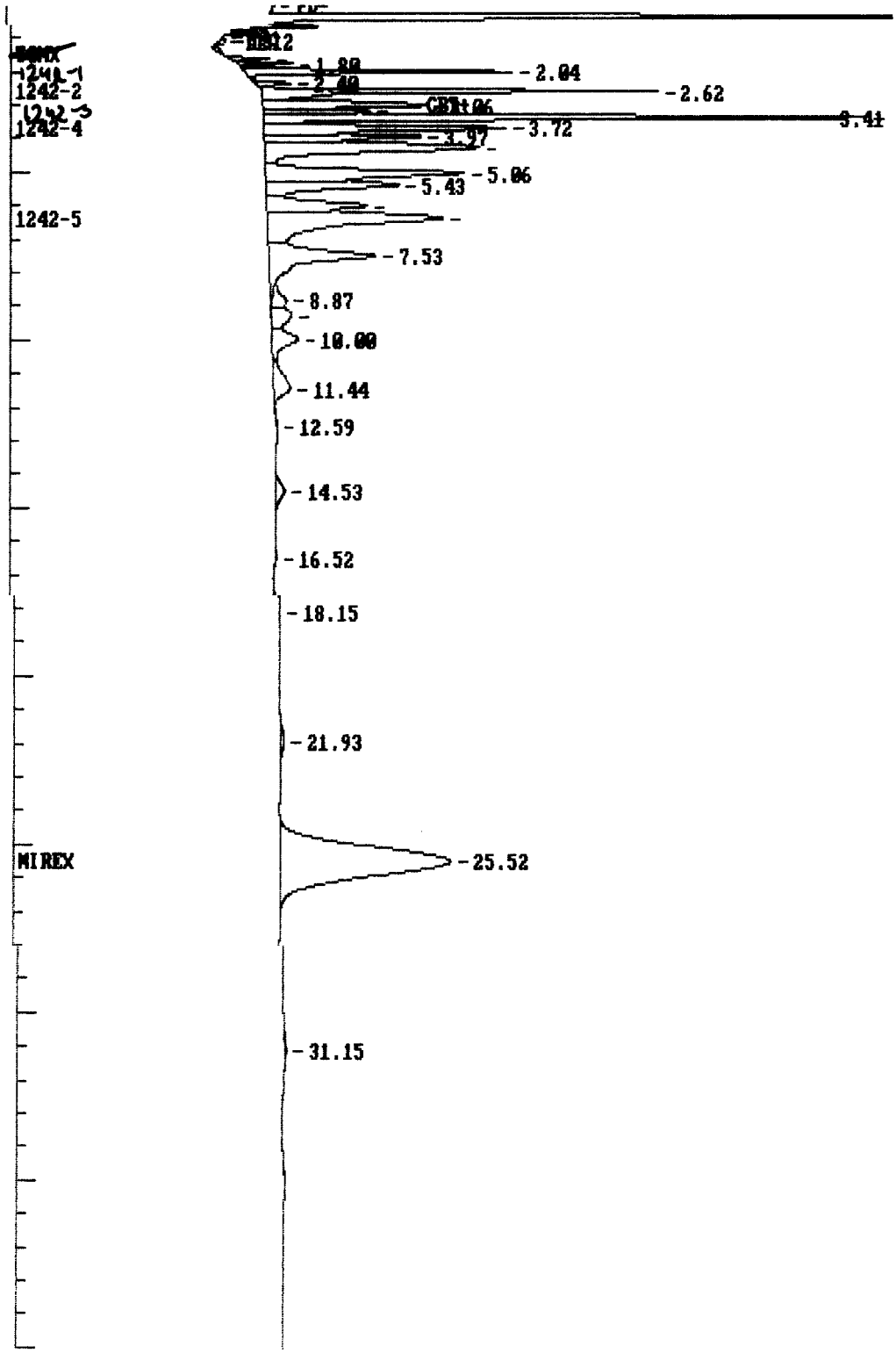
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.50	MIREX

AV= 0.2636
(N=5)

UM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC026.PTS Printed on 11-16-1990 at 13:43:52
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

SECONDARY COLUMN

****** INTERNAL STANDARD TABLE ******

********** 11-13-1990 09:01:12 Version 4.1 **********

* Sample Name: PCB1242 L1 Data File: W:1IC15 *
* Date: 11-07-1990 01:31:50 Method: W:1PCB1242 11-07-1990 10:46:27 # 182*
* Interface: 0 Cycle#: 15 Operator SKF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.55~~	~~TCMX~~	~~0.0001~~	~~0.1338%~~	~~14573~~	~~2440~~	~~6.0~~	~~2~~	~~23~~	~~23~~	~~-3.317~~	~~7.8510E-09~~
5	1.90	1242-1	0.0152	17.7607%	98454	14226	6.9	3	23	23	0	1.5429E-07
7	2.40	1242-2	0.0132	15.4170%	163140	20108	8.1	2	23	23	.6992	8.0824E-08
8	2.64	1242-3	0.0205	23.9194%	90975	11104	8.2	2	23	23	0	2.2487E-07
9	3.07	1242-4	0.0180	21.0015%	342614	29108	11.8	2	23	23	0	5.2426E-08
14	5.39	1242-5	0.0186	21.7676%	194330	9682	20.1	2	23	23	.3105	9.5801E-08
23	23.01	MIREX	1.0000	0.0000%	3568221	52900	67.5	3	23	23	0	2.8025E-07

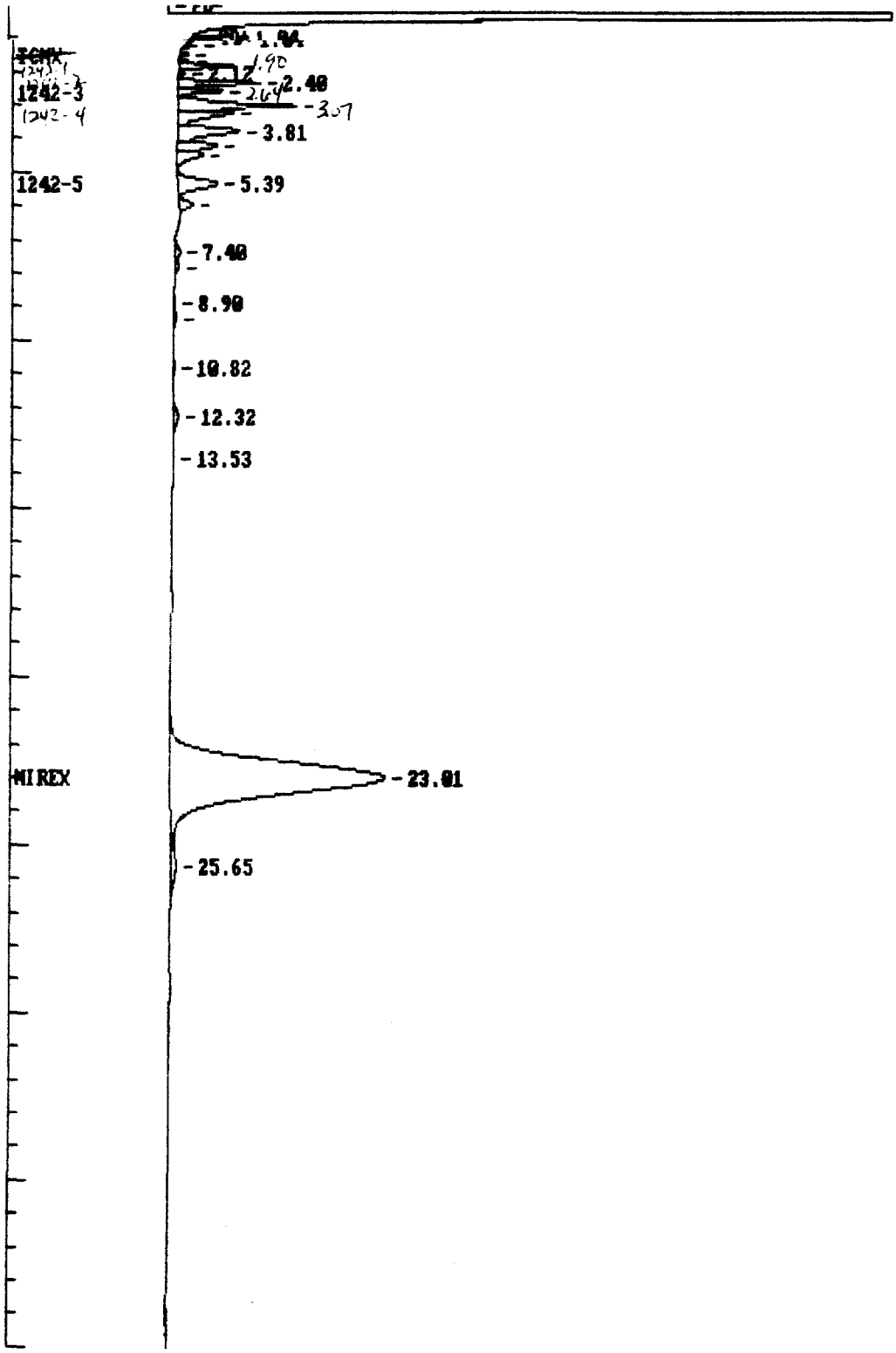
TOTAL AMOUNT = 0.0855

Average = 0.0171

11/15/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC15.ATB
Data File = W:1IC15.PTS Printed on 11-07-1990 at 01:32:13
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/7/90

SECONDARY COLUMN

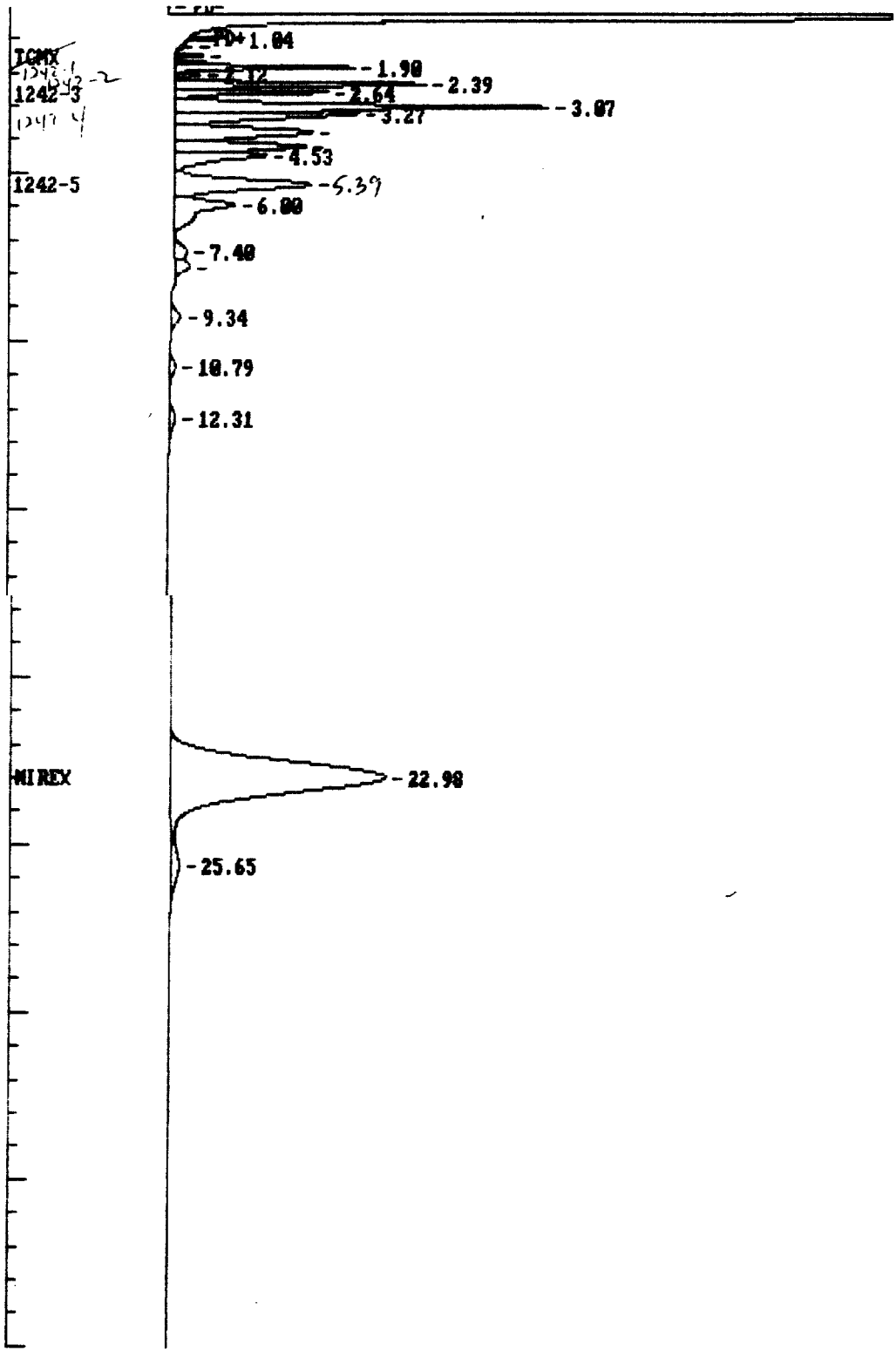
```
*****    INTERNAL  STANDARD  TABLE    *****
******************** 11-13-1990 09:01:57 Version 4.1 **********************
* Sample Name: PCB1242 L2                            Data File: W:1IC16     *
* Date: 11-07-1990 02:15:59 Method: W:1PCB1242 11-07-1990 10:46:27  #   182*
* Interface: 0   Cycle#:  16   Operator SKF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1   Area Threshold: 100             *
*****************************************************************************
* Instrument Type: HP 5890A #2         Column Type: PACKED COLUMNS          *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                      *
*              Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT    *
* Misc. Information: CONFIRMATORY COLUMN                   LPT1:         *  *
*****************************************************************************
Starting Delay:    0.00                    Ending retention time:   40.00
Area reject:          0                    One sample per    1.002 sec.
Amount injected:         1.00              Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:           1.000000
```

DKC 11/26/90

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/K_{ml}	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.55~~	~~TCMX~~	~~0.0003~~	~~0.0505%~~	~~35857~~	~~6926~~	~~5.2~~	~~2~~	~~21~~	~~21~~	~~-3.177~~	~~7.8355E-09~~
5	1.90	1242-1	0.1117	20.0577%	311058	44205	7.0	3	21	21	.1453	3.5901E-07
7	2.39	1242-2	0.1134	20.3737%	522123	61756	8.5	2	21	21	.1453	2.1725E-07
8	2.64	1242-3	0.1090	19.5710%	317819	37722	8.4	2	21	21	.1453	3.4285E-07
9	3.07	1242-4	0.1099	19.7430%	1024167	91817	11.2	2	21	21	.1453	1.0733E-07
14	5.39	1242-5	0.1125	20.2041%	753098	33560	22.4	2	21	21	.4563	1.4937E-07
21	22.98	MIREX	1.0000	0.0000%	3575292	53059	67.4	3	21	21	0	2.7970E-07

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC16.ATB
Data File = W:1IC16.PTS Printed on 11-07-1990 at 02:16:22
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/9/90

SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-13-1990 09:02:27 Version 4.1 **********************
* Sample Name: PCB1242 L3                          Data File: W:1IC17      *
* Date: 11-07-1990 03:00:06 Method: W:1PCB1242 11-07-1990 10:46:27  #  182*
* Interface: 0   Cycle#:  17   Operator SKF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *  *
*****************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.54~~	~~TCMX~~	~~0.0005~~	~~0.0459%~~	~~64118~~	~~12513~~	~~5.1~~	~~2~~	~~21~~	~~21~~	~~-4.079~~	~~7.7854E-09~~
5	1.90	1242-1	0.2198	20.2109%	552723	77301	7.2	3	21	21	.2911	3.9775E-07
7	2.39	1242-2	0.2194	20.1701%	907038	109134	8.3	2	21	21	.2911	2.4189E-07
8	2.64	1242-3	0.2171	19.9631%	598701	68030	8.8	2	21	21	.2911	3.6270E-07
9	3.07	1242-4	0.2174	19.9897%	1831914	162041	11.3	2	21	21	.2911	1.1869E-07
14	5.38	1242-5	0.2134	19.6202%	1362164	59825	22.8	2	21	21	.2911	1.5668E-07
21	22.95	MIREX	1.0000	0.0000%	3598292	53460	67.3	3	21	21	0	2.7791E-07

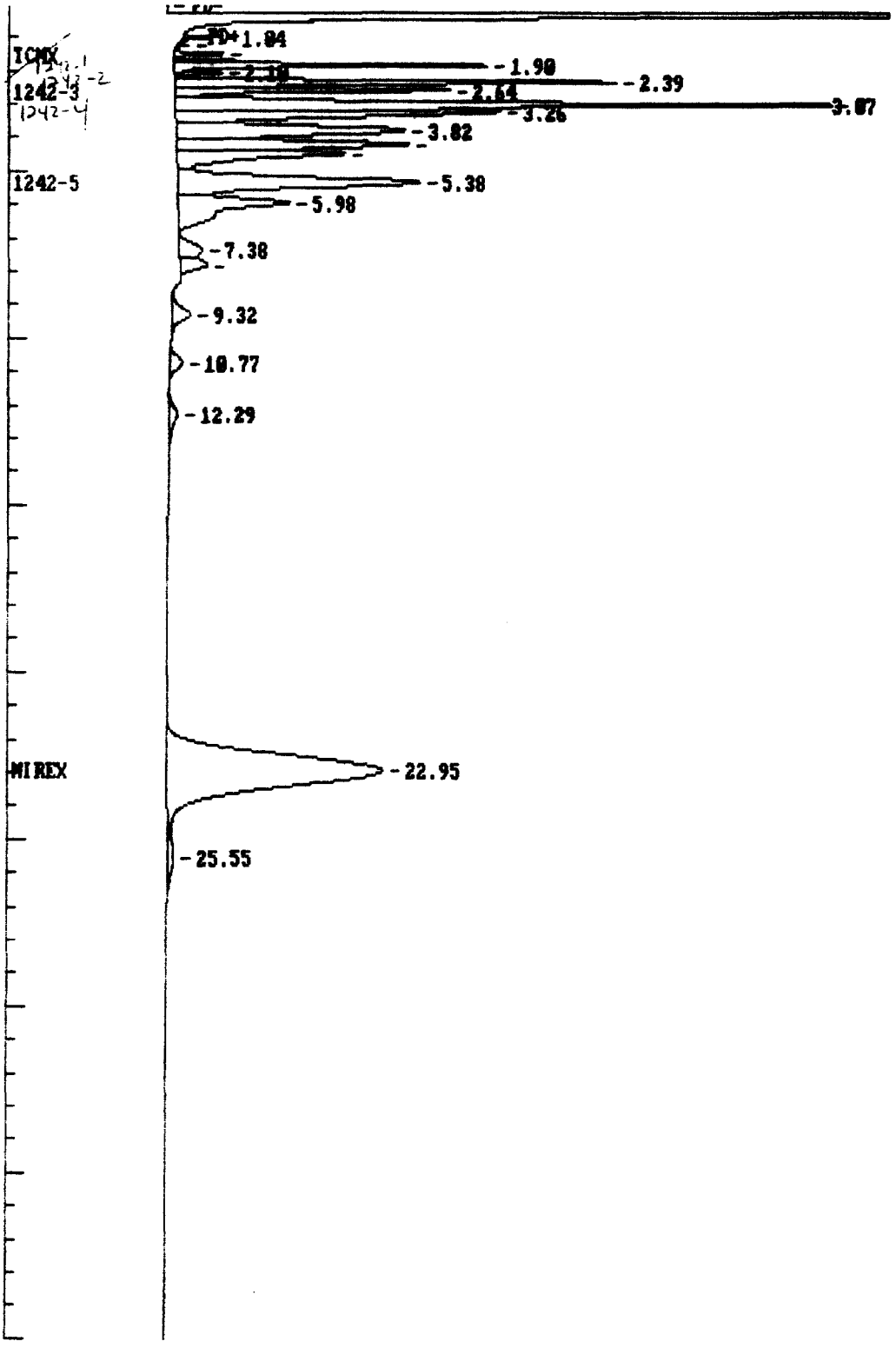
TOTAL AMOUNT = 1.0877

Average = 0.2174

8 11/5/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC17.ATB
Data File = W:1IC17.PTS Printed on 11-07-1990 at 03:00:29
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/09/90

SECONDARY COLUMN

```
******   INTERNAL STANDARD TABLE   ******
******************** 11-13-1990 09:03:13 Version 4.1 **********************
* Sample Name: PCB1242 L4                          Data File: W:1IC18      *
* Date: 11-07-1990 03:44:11 Method: W:1PCB1242 11-07-1990 10:46:27  #  182*
* Interface: 0   Cycle#:  18   Operator SKF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                  LPT1:          *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.54~~	~~TCMX~~	~~0.0011~~	~~0.0415%~~	~~134051~~	~~26315~~	~~5.1~~	~~2~~	~~23~~	~~23~~	~~-4.148~~	~~8.1263E-09~~
6	1.90	1242-1	0.5235	19.9555%	1174027	163077	7.2	3	23	23	.2181	4.4587E-07
8	2.39	1242-2	0.5255	20.0323%	1924863	230718	8.3	2	23	23	.2181	2.7299E-07
9	2.64	1242-3	0.5217	19.8878%	1325590	149198	8.9	2	23	23	.2181	3.9355E-07
10	3.07	1242-4	0.5255	20.0351%	3954685	350390	11.3	2	23	23	.2181	1.3289E-07
15	5.38	1242-5	0.5259	20.0478%	3097156	130975	23.6	2	23	23	.2181	1.6979E-07
23	22.96	MIREX	1.0000	0.0000%	3447362	52399	65.8	1	23	23	0	2.9008E-07

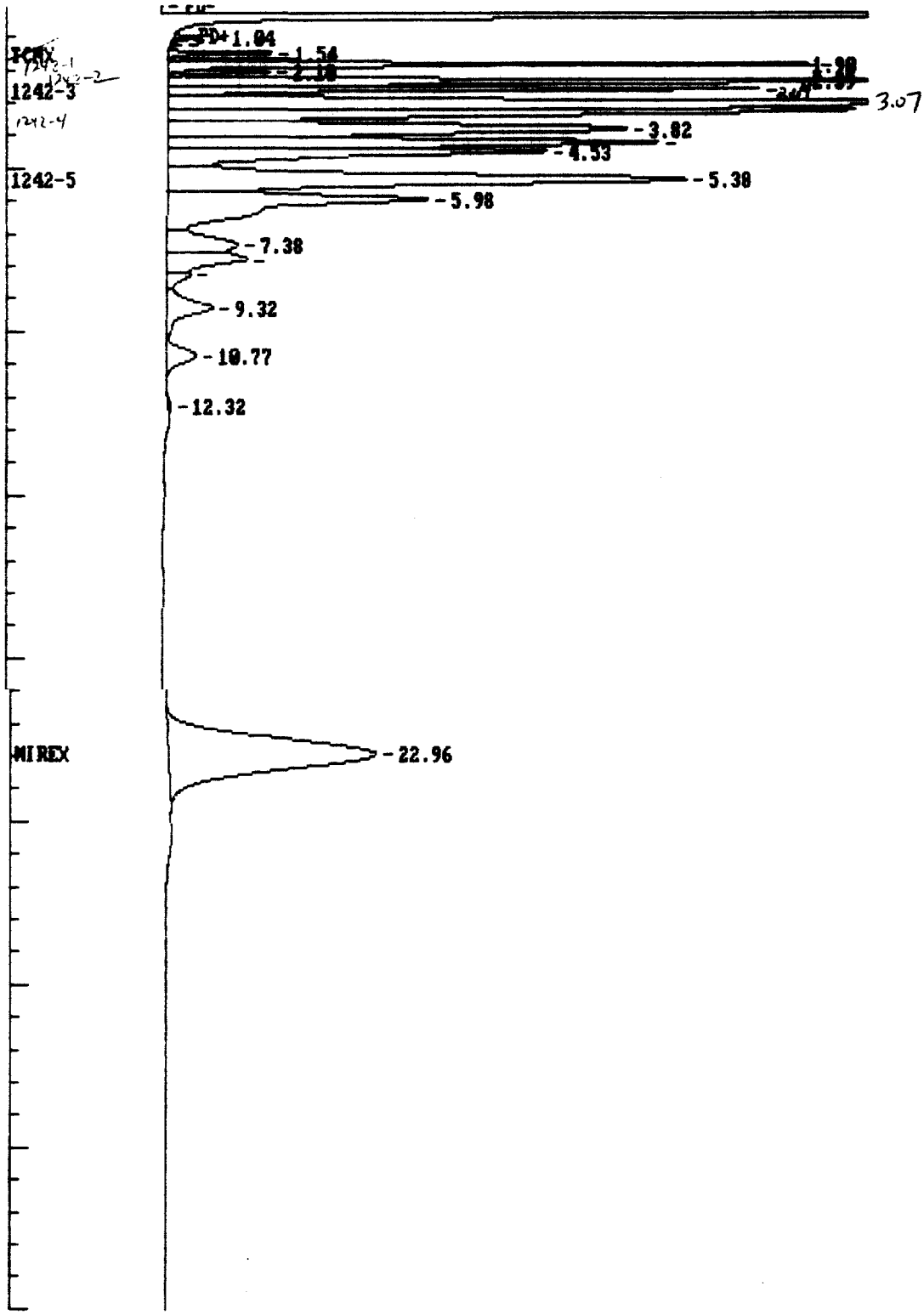
TOTAL AMOUNT = 2.6231

Average = 0.5244

11/15/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC18.ATB
Data File = W:1IC18.PTS Printed on 11-07-1990 at 03:44:34
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/7/90

SECONDARY COLUMN

```
****** INTERNAL STANDARD TABLE ******
******************** 11-13-1990 09:03:41 Version 4.1 **********************
* Sample Name: PCB1242 L5                          Data File: W:1IC19       *
* Date: 11-07-1990 04:28:14 Method: W:1PCB1242 11-07-1990 10:46:27  #  182*
* Interface: 0   Cycle#:  19   Operator SKF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: CONFIRMATORY COLUMN                LFT1:          *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00
Area reject: 0
Amount injected: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

Ending retention time: 40.00
One sample per 1.002 sec.
Dilution factor: 1.00

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.54~~	~~TCMX~~	~~0.0015~~	~~0.0403%~~	~~184534~~	~~36224~~	~~5.1~~	~~2~~	~~25~~	~~25~~	~~-4.357~~	~~7.9786E-07~~
6	1.90	1242-1	0.7298	19.9939%	1641935	229167	7.2	3	25	25	0	4.4450E-07
8	2.39	1242-2	0.7285	19.9575%	2673853	320698	8.3	2	25	25	0	2.7246E-07
9	2.64	1242-3	0.7317	20.0462%	1878428	210701	8.9	2	25	25	0	3.8955E-07
10	3.07	1242-4	0.7291	19.9747%	5508177	493928	11.2	2	25	25	0	1.3237E-07
15	5.38	1242-5	0.7296	19.9874%	4344502	182834	23.8	2	25	25	0	1.6794E-07
25	23.01	MIREX	1.0000	0.0000%	3511164	53072	66.2	1	25	25	0	2.8481E-07

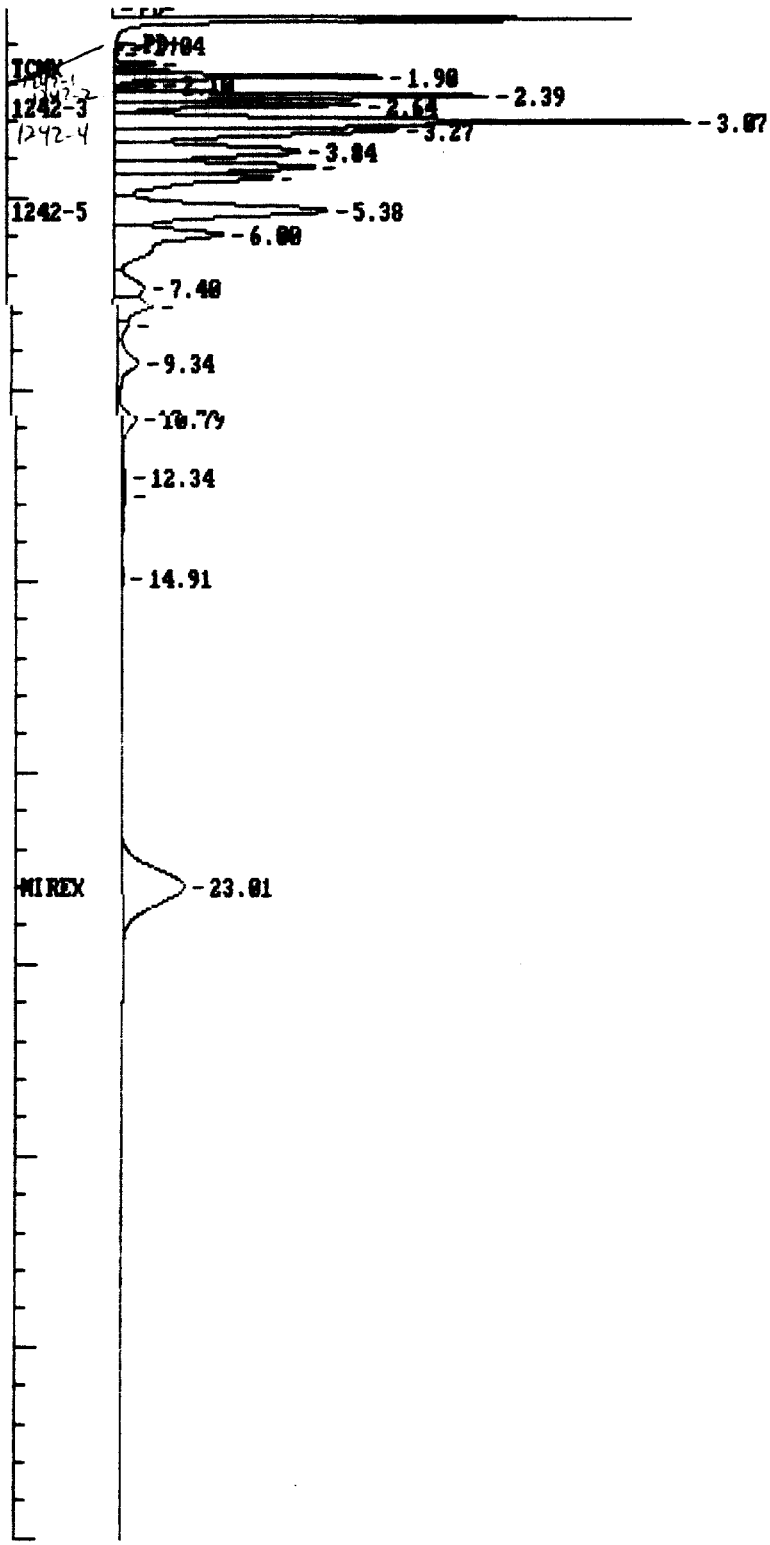
TOTAL AMOUNT = 3.6503

Average = 0.7297

8/1/90

SECONDARY COLUMN

Data File = W:1IC19.PTS Printed on 11-07-1990 at 11:04:22
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 800 millivolts

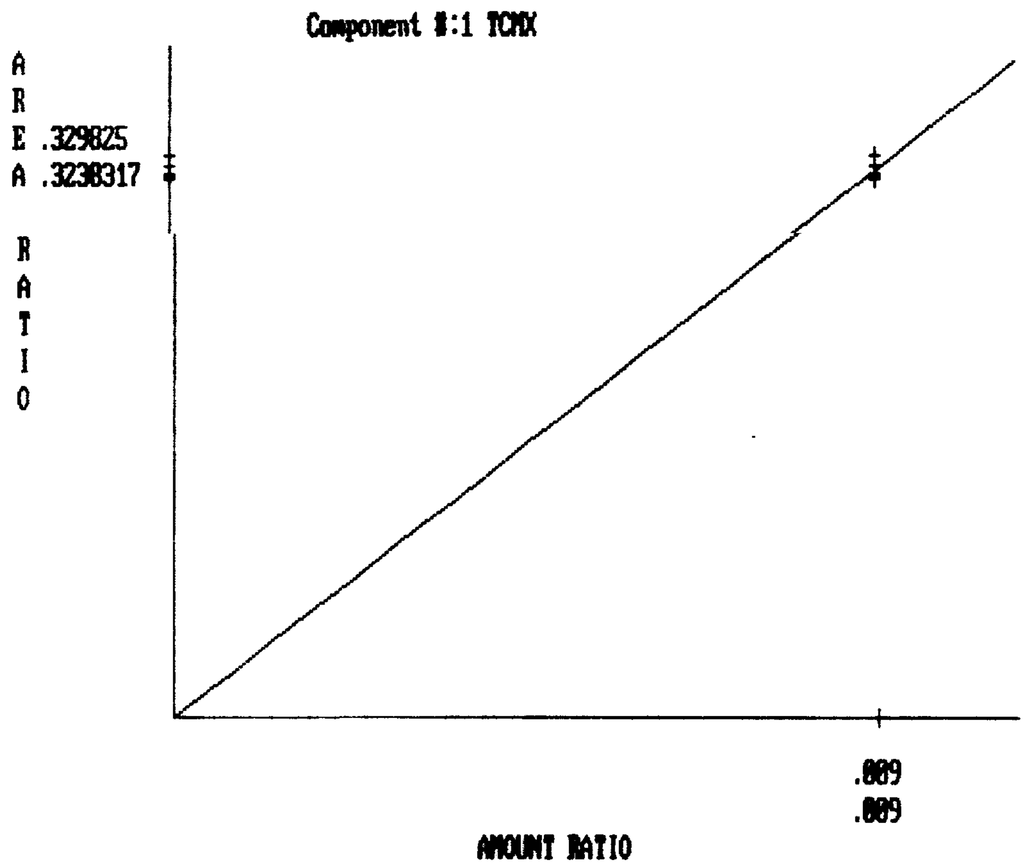


11/9/90

SECONDARY COLUMN

Output redirected to LPT1:
Output redirected to LPT1:

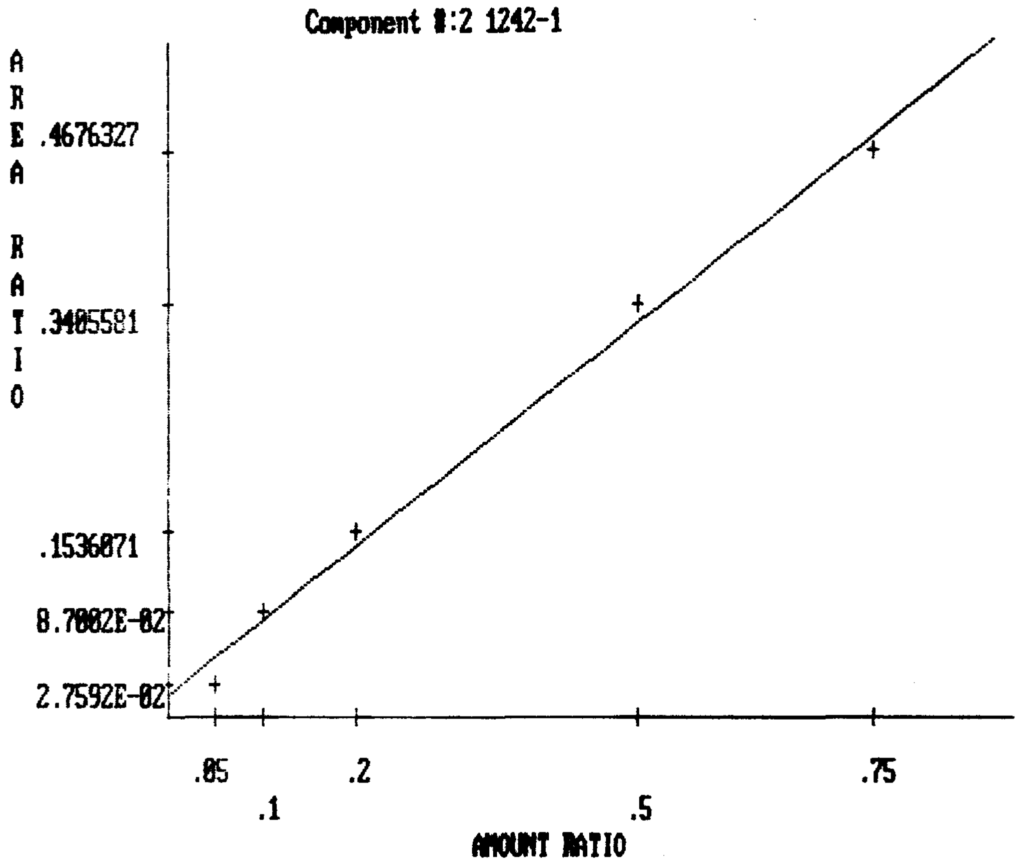
Method W:1PCB1242
Sample SINGLE PHASE COLUMN - PCB 1242
Operator DKC
Run date 11-07-1990 10:46:27 version: 182
Printed on 11-07-1990 AT 10:46:48
Straight Line fit



Component 1 = TCMX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0090	1137026	0.0090	0.3187
2	0.0090	1137026	0.0090	0.3180
3	0.0090	1137026	0.0090	0.3160
4	0.0090	1137026	0.0090	0.3298
5	0.0090	1137026	0.0090	0.3238

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.5696E+01 * Amt ratio + 0.0000E+00
Amt ratio = 2.8014E-02 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000



Component 2 = 1242-1
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	98454	0.0500	0.0276
2	0.1000	311058	0.1000	0.0870
3	0.2000	552723	0.2000	0.1536
4	0.5000	1174027	0.5000	0.3406
5	0.7500	1641935	0.7500	0.4676

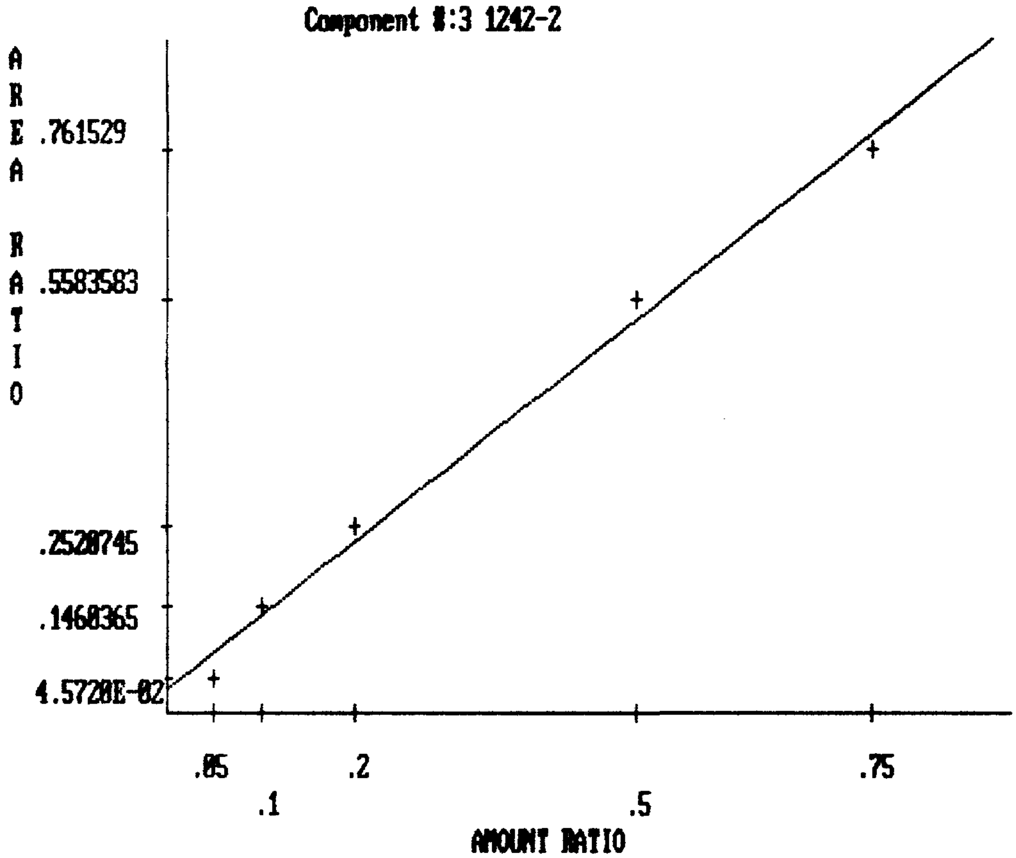
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 6.1575E-01 * Amt ratio + 1.8239E-02

Amt ratio = 1.6240E+00 * Area ratio + -2.9620E-02

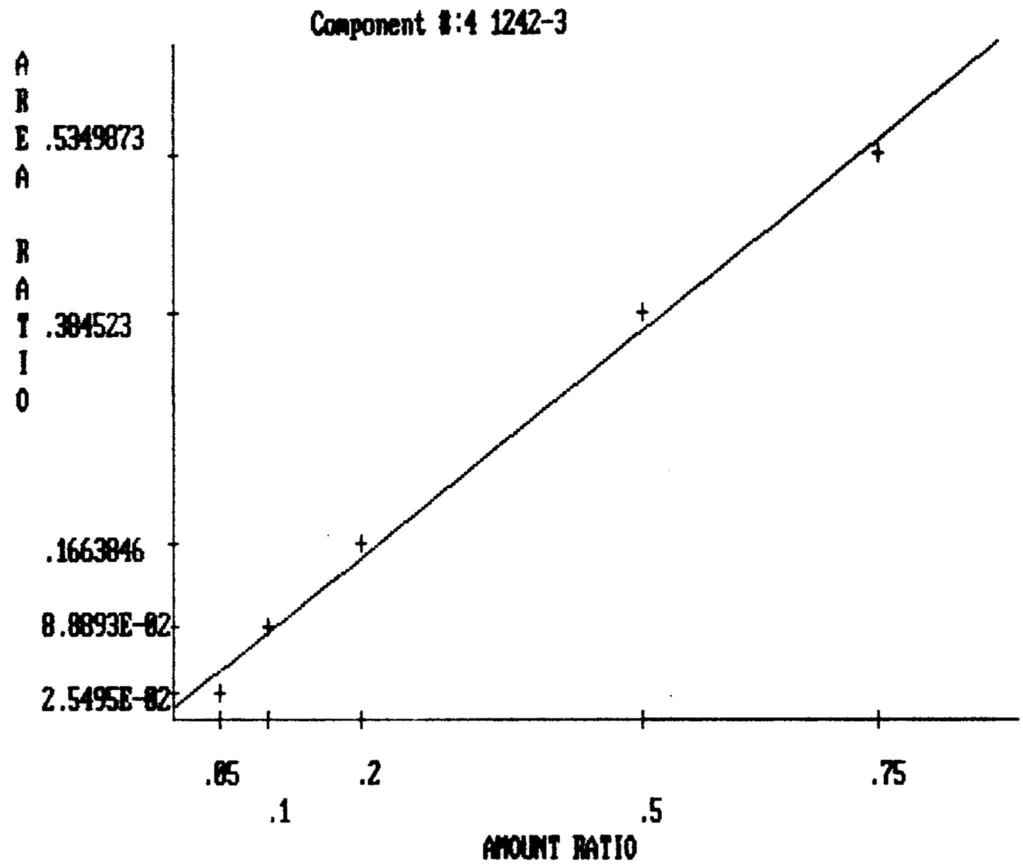
Correlation Coefficient = 0.9924



Component 3 = 1242-2
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	163140	0.0500	0.0457
2	0.1000	522123	0.1000	0.1460
3	0.2000	907038	0.2000	0.2521
4	0.5000	1924863	0.5000	0.5584
5	0.7500	2673853	0.7500	0.7615

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.0007E+00 * Amt ratio + 3.2526E-02
Amt ratio = 9.9932E-01 * Area ratio + -3.2504E-02
Correlation Coefficient = 0.9915



Component 4 = 1242-3

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	90975	0.0500	0.0255
2	0.1000	317819	0.1000	0.0889
3	0.2000	598701	0.2000	0.1664
4	0.5000	1325590	0.5000	0.3845
5	0.7500	1878428	0.7500	0.5350

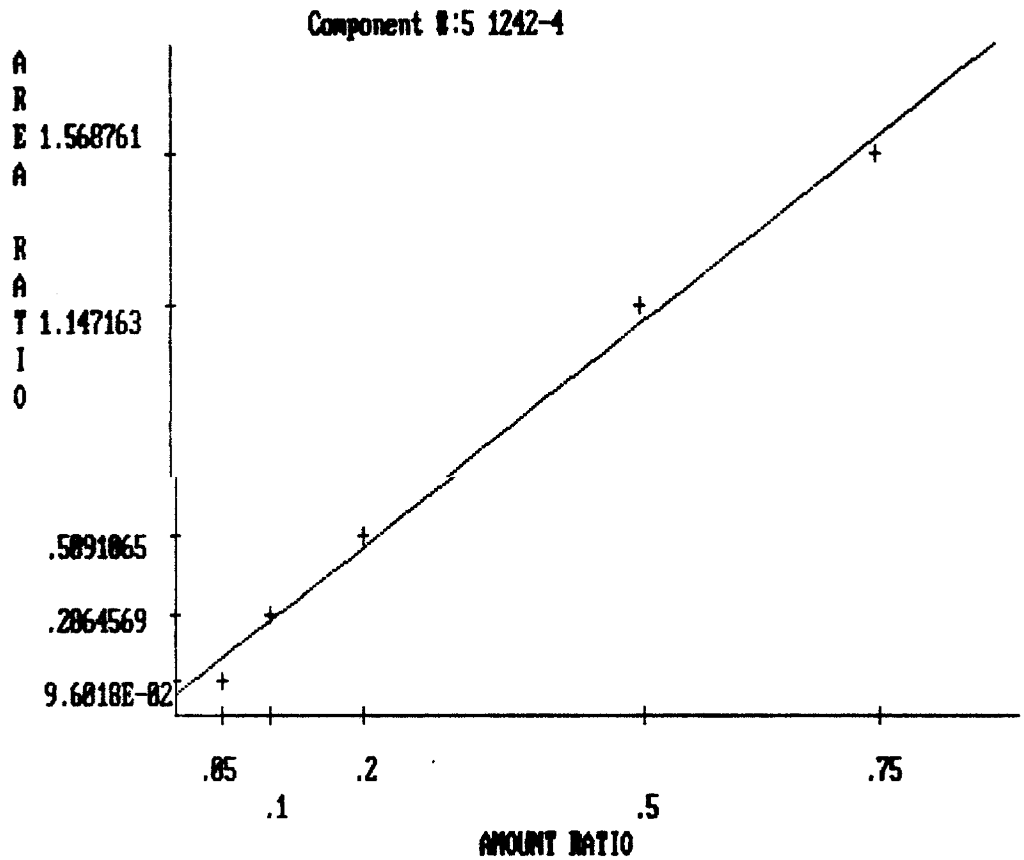
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 7.1629E-01 * Amt ratio + 1.0842E-02

Amt ratio = 1.3961E+00 * Area ratio + -1.5137E-02

Correlation Coefficient = 0.9942



Component 5 = 1242-4

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	342614	0.0500	0.0960
2	0.1000	1024167	0.1000	0.2865
3	0.2000	1831914	0.2000	0.5091
4	0.5000	3954685	0.5000	1.1472
5	0.7500	5508177	0.7500	1.5688

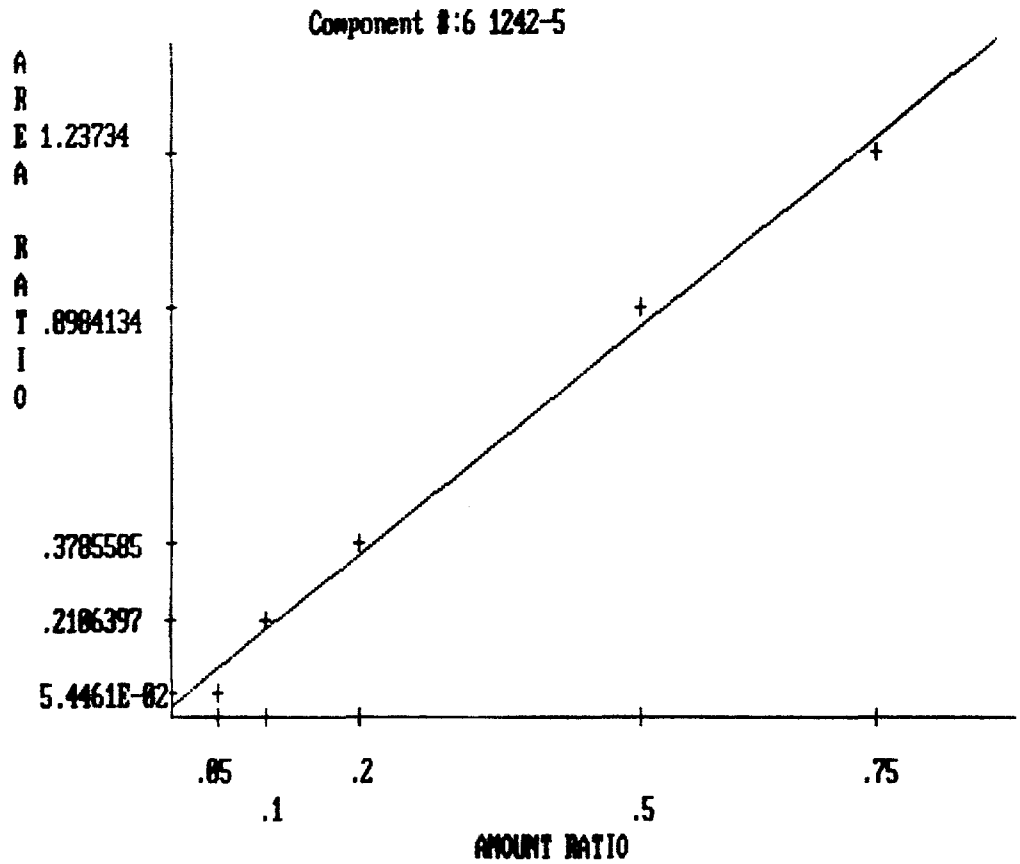
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.0709E+00 * Amt ratio + 5.8822E-02

Amt ratio = 4.8289E-01 * Area ratio + -2.8404E-02

Correlation Coefficient = 0.9929



Component 6 = 1242-5
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	194330	0.0500	0.0545
2	0.1000	753098	0.1000	0.2106
3	0.2000	1362164	0.2000	0.3786
4	0.5000	3097156	0.5000	0.8984
5	0.7500	4344502	0.7500	1.2373

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.6637E+00 * Amt ratio + 2.3488E-02
Amt ratio = 6.0106E-01 * Area ratio + -1.4117E-02
Correlation Coefficient = 0.9932

SECONDARY COLUMN

Output redirected to LPT1:
PCB 1242 L Processed: 11-13-1990 10:50:39, segment 2, cycle 7
RAW DATA SAVED IN FILE U:1ALC07.PTS Second Channel Stored in U:2ALC07.PTS

****** INTERNAL STANDARD TABLE ******

```
******************** 11-13-1990 10:50:49 Version 4.1 **********************
* Sample Name: PCB 1242 L3 #3                    Data File: U:1ALC07       *
* Date: 11-13-1990 10:50:44 Method: U:1PCB1242 11-07-1990 10:46:27  #  182*
* Interface: 0   Cycle#:  7    Operator DKC Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:        *   *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.64~~	~~TCMX~~	~~0.0006~~	~~0.0468%~~	~~75613~~	~~13833~~	~~5.5~~	~~2~~	~~23~~	~~23~~	~~-3.312~~	~~7.6151E-09~~
6	2.00	1242-1	0.2501	20.3184%	633558	84887	7.5	3	23	23	-.1014	3.9471E-07
8	2.52	1242-2	0.2501	20.3234%	1040462	118417	8.8	2	23	23	.2128	2.4040E-07
9	2.79	1242-3	0.2372	19.2745%	664992	74030	9.0	2	23	23	.3094	3.5673E-07
10	3.24	1242-4	0.2460	19.9848%	2090224	178222	11.7	2	23	23	0	1.1767E-07
15	5.69	1242-5	0.2468	20.0521%	1596902	65781	24.3	2	23	23	.5034	1.5454E-07
23	24.25	MIREX	1.0000	0.0000%	3678800	54463	67.5	1	23	23	0	2.7183E-07

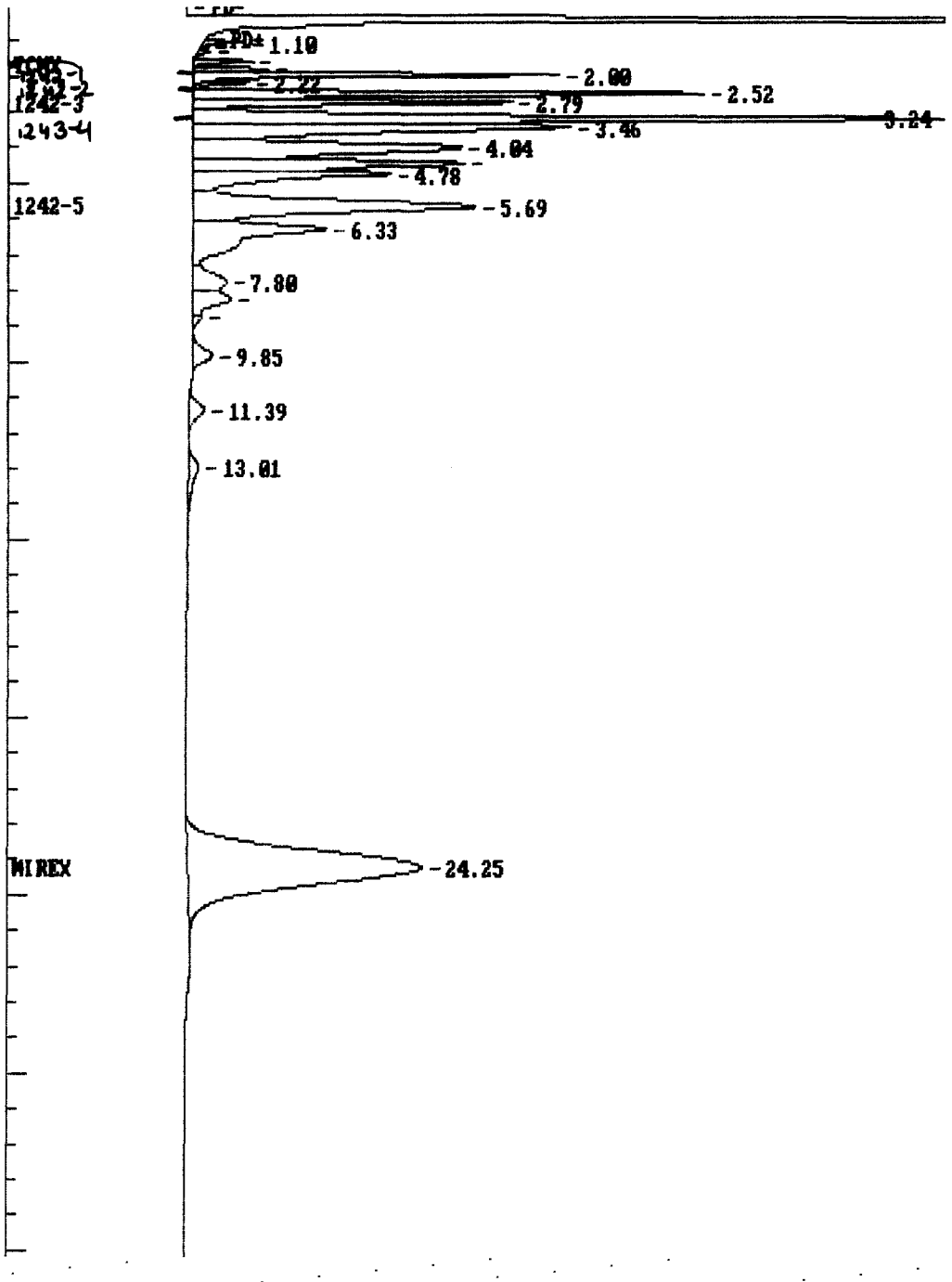
TOTAL AMOUNT = 1.2308

AV = 0.2460
(n=5)

UM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC07.ATB
Data File = U:1ALC07.PTS Printed on 11-13-1990 at 10:51:08
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

Output redirected to LPT1:
PCB 1242 L Processed: 11-13-1990 17:27:54, segment 11, cycle 16
RAW DATA SAVED IN FILE U:1ALC016.PTS Second Channel Stored in U:2ALC016.PTS

****** INTERNAL STANDARD TABLE ******

********** 11-13-1990 17:28:04 Version 4.1 **********
* Sample Name: PCB 1242 L3 #4 Data File: U:1ALC016 *
* Date: 11-13-1990 17:27:59 Method: U:1PCB1242 11-07-1990 10:46:27 # 182*
* Interface: 0 Cycle#: 16 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.32~~	~~TCMX~~	~~0.0005~~	~~0.0424%~~	~~61250~~	~~12521~~	~~4.9~~	~~2~~	~~21~~	~~21~~	~~-3.219~~	~~0.3026E-09~~
5	1.85	1242-1	0.2416	20.1571%	563427	80115	7.0	3	21	21	-.3907	4.2874E-07
7	2.34	1242-2	0.2411	20.1143%	923658	112812	8.2	2	21	21	.1552	2.6098E-07
8	2.59	1242-3	0.2386	19.9072%	613186	70391	8.7	2	21	21	.3589	3.8907E-07
9	3.01	1242-4	0.2400	20.0258%	1875416	171665	10.9	2	21	21	0	1.2797E-07
14	5.28	1242-5	0.2367	19.7532%	1408165	63154	22.3	2	21	21	.3951	1.6811E-07
21	22.49	MIREX	1.0000	0.0000%	3374182	51781	65.2	1	21	21	0	2.9637E-07

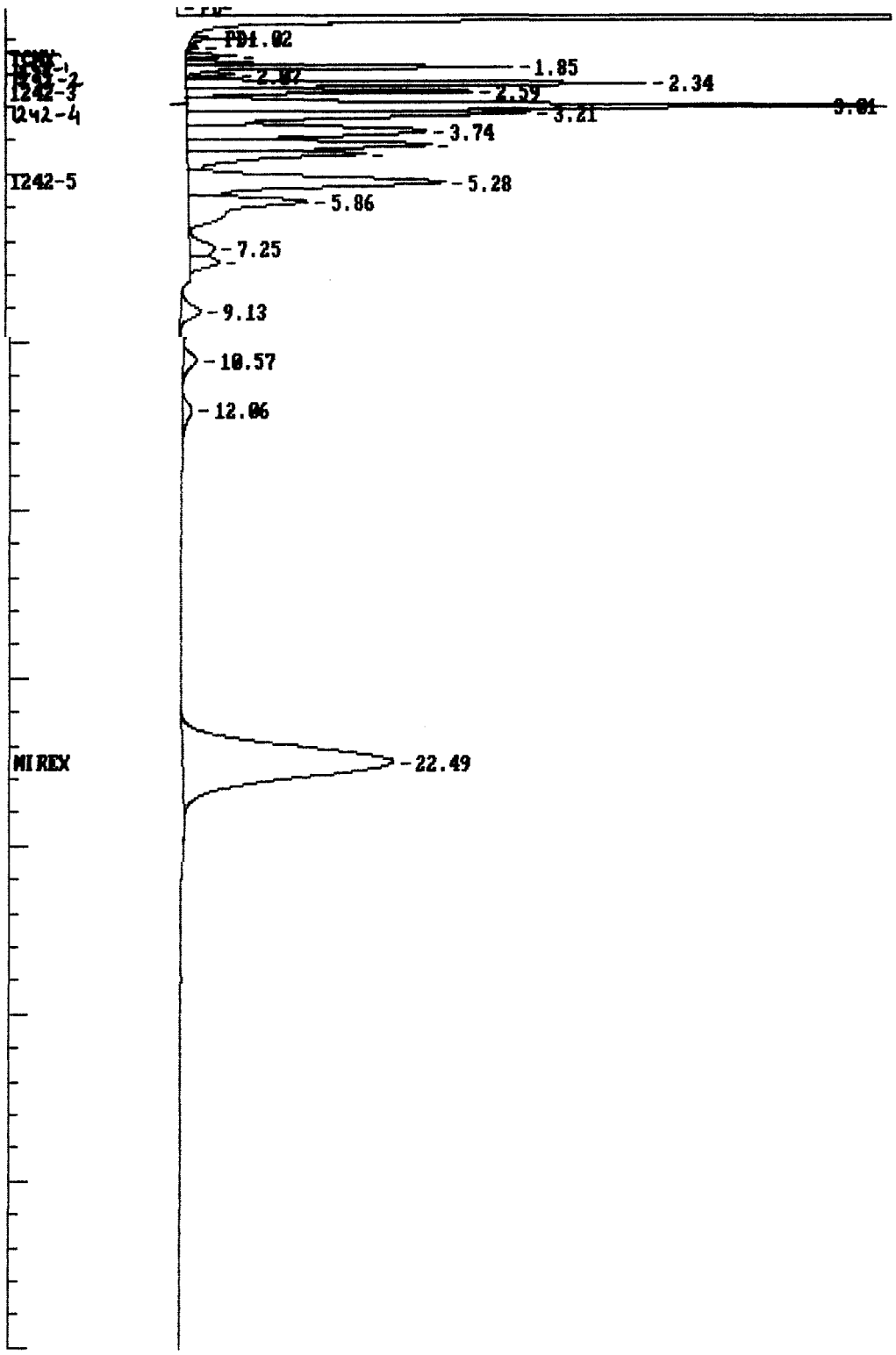
TOTAL AMOUNT = 1.1984

AV: 0.2396
(n=5)

KM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC016.ATB
Data File = U:1ALC016.PTS Printed on 11-13-1990 at 17:28:23
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
PCB 1242 L Processed: 11-14-1990 00:04:46, segment 5, cycle 25
RAW DATA SAVED IN FILE U:1ALC025.PTS Second Channel Stored in U:2ALC025.PTS

****** INTERNAL STANDARD TABLE ******
********** 11-14-1990 00:04:56 Version 4.1 **********
* Sample Name: PCB 1242 L3 #5 Data File: U:1ALC025 *
* Date: 11-14-1990 00:04:51 Method: U:1PCB1242 11-07-1990 10:46:27 # 182*
* Interface: 0 Cycle#: 25 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.57~~	~~TCMX~~	~~0.0005~~	~~0.0437%~~	~~64669~~	~~12817~~	~~5.0~~	~~2~~	~~22~~	~~22~~	~~-3.489~~	~~7.9533E-09~~
6	1.92	1242-1	0.2359	20.0553%	575878	81470	7.1	3	22	22	-.3521	4.0963E-07
8	2.42	1242-2	0.2433	20.6868%	972232	113958	8.5	2	22	22	.1629	2.5028E-07
9	2.67	1242-3	0.2186	18.5881%	589830	69114	8.5	2	22	22	0	3.7069E-07
10	3.11	1242-4	0.2438	20.7235%	1985243	173001	11.5	2	22	22	-.1449	1.2279E-07
15	5.46	1242-5	0.2341	19.9026%	1454630	63499	22.9	2	22	22	.3152	1.6094E-07
22	23.30	MIREX	1.0000	0.0000%	3522329	52335	67.3	3	22	22	0	2.8390E-07

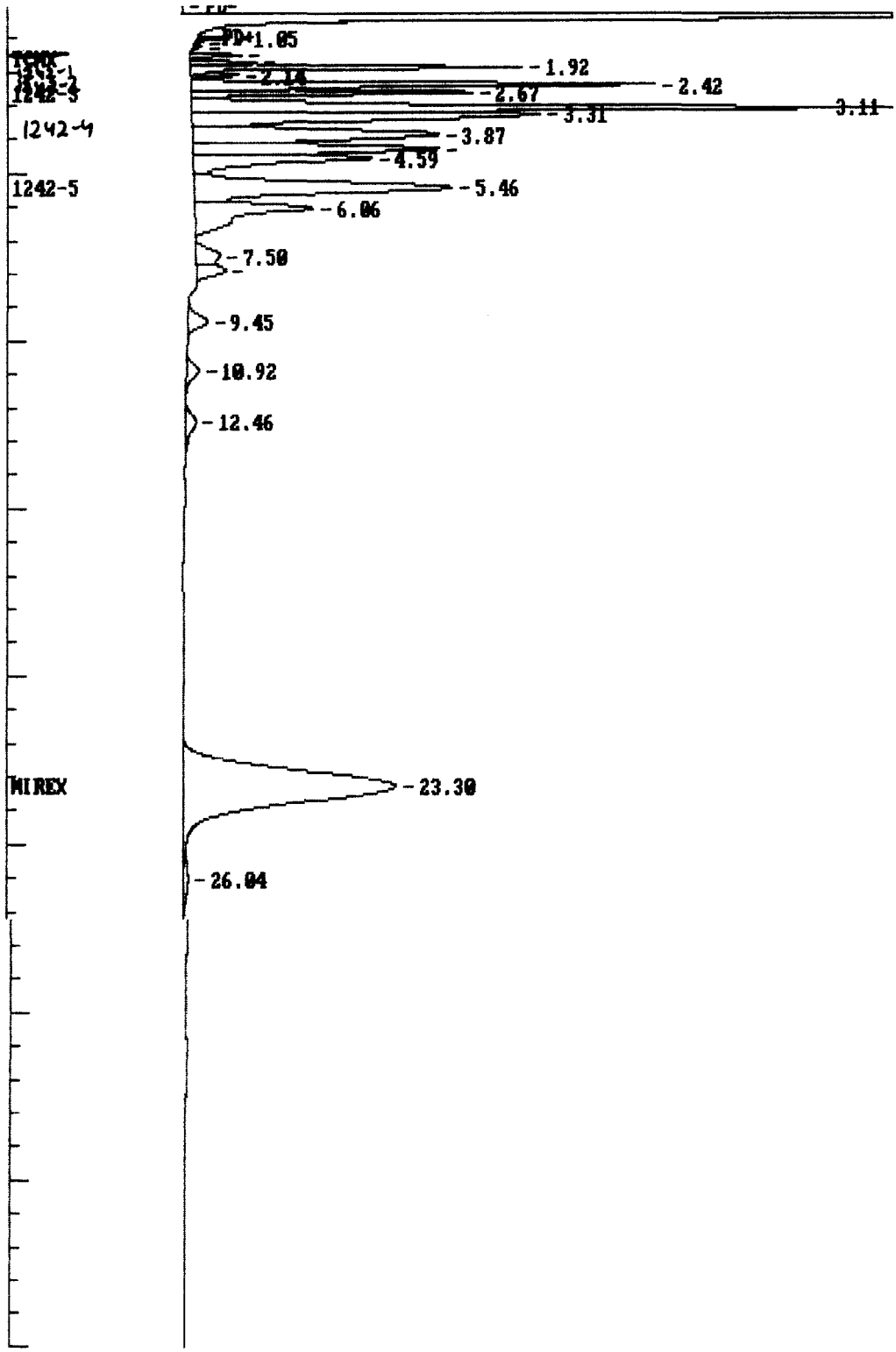
TOTAL AMOUNT = 1.1762

AV= 0.2351
(n=5)

LM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC025.ATB
Data File = U:1ALC025.PTS Printed on 11-14-1990 at 00:05:15
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 08:56:28 Version 4.1 **********

* Sample Name: TCMX 0.009 UG/ML Data File: W:2IC5 *

* Date: 11-06-1990 18:10:32 Method: W:2TCMX 11-13-1990 08:55:59 # 92 *

* Interface: 0 Cycle#: 5 Operator SKF Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * OKC

* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

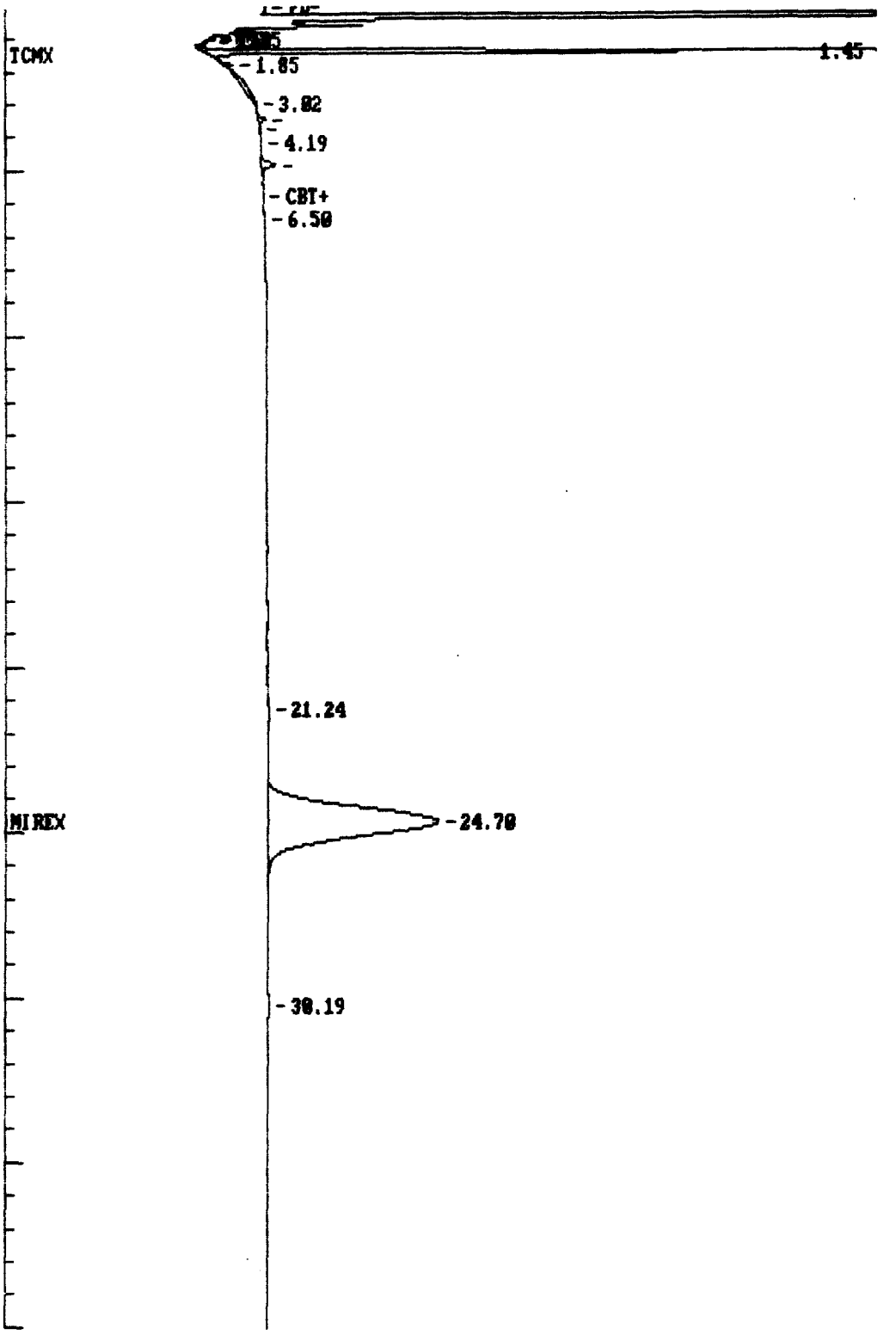
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.45	TCMX	0.0090	100.0000%	862696	217656	4.0	1	11	11	-.1384	1.0432E-08
11	24.70	MIREX	1.0000	0.0000%	2547209	42533	59.9	1	11	11	0	3.9259E-07

TOTAL AMOUNT = 0.0090

SK 11/15/90

PRIMARY COLUMN

Data File = W:2IC5.PTS Printed on 11-07-1990 at 14:04:54
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



NEW TIMED EVENTS FROM U:2TCMX

PRIMARY COLUMN

```
****** INTERNAL STANDARD TABLE ******
******************** 11-16-1990 14:46:03 Version 4.1 **********************
* Sample Name: TCMX #2                          Data File: U:2ALC09        *
* Date: 11-13-1990 12:18:57 Method: U:2TCMX 11-16-1990 14:45:20  #  93     *
* Interface: 0   Cycle#:  9    Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT   *DKC
* Misc. Information: PRIMARY COLUMN                ~~CONFIRMATORY CO~~     *11/26/90
*************************************************************************
Starting Delay:    0.00                        Ending retention time:    40.00
Area reject:          0                        One sample per    1.002 sec.
Amount injected:        1.00                   Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

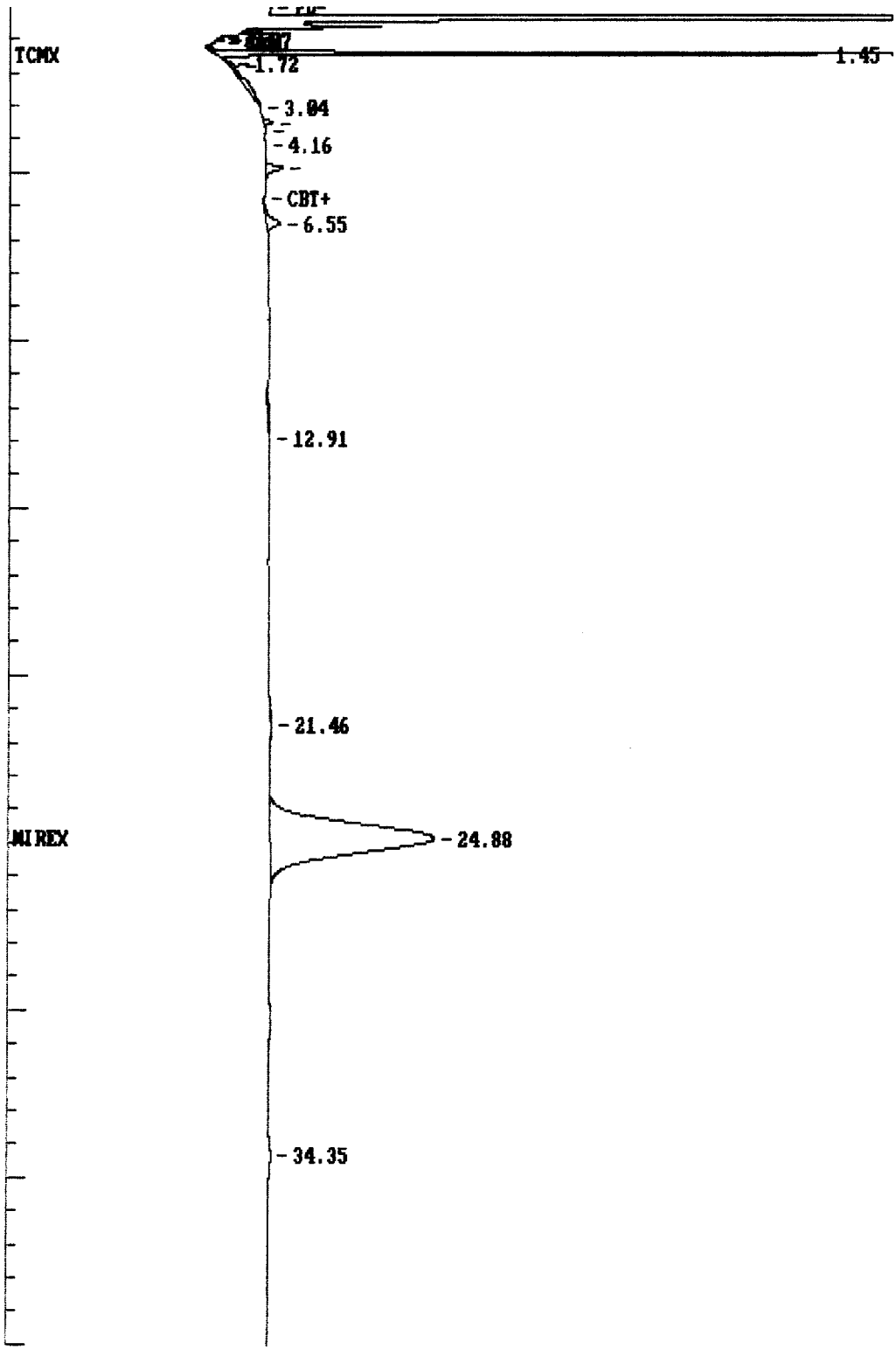
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.45	TCMX	0.0092	100.0000%	853283	211790	4.0	1	13	13	-.8756	1.0785E-08
13	24.88	MIREX	1.0000	0.0000%	2421951	40475	59.8	1	13	13	0	4.1289E-07

TOTAL AMOUNT = 0.0092

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC09.PTS Printed on 11-16-1990 at 12:21:34
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2TCMX

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 14:47:12 Version 4.1 **********

* Sample Name: TCMX # 3 Data File: U:2ALC018 *
* Date: 11-13-1990 18:56:12 Method: U:2TCMX 11-16-1990 14:45:20 # 93 *
* Interface: 0 Cycle#: 18 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

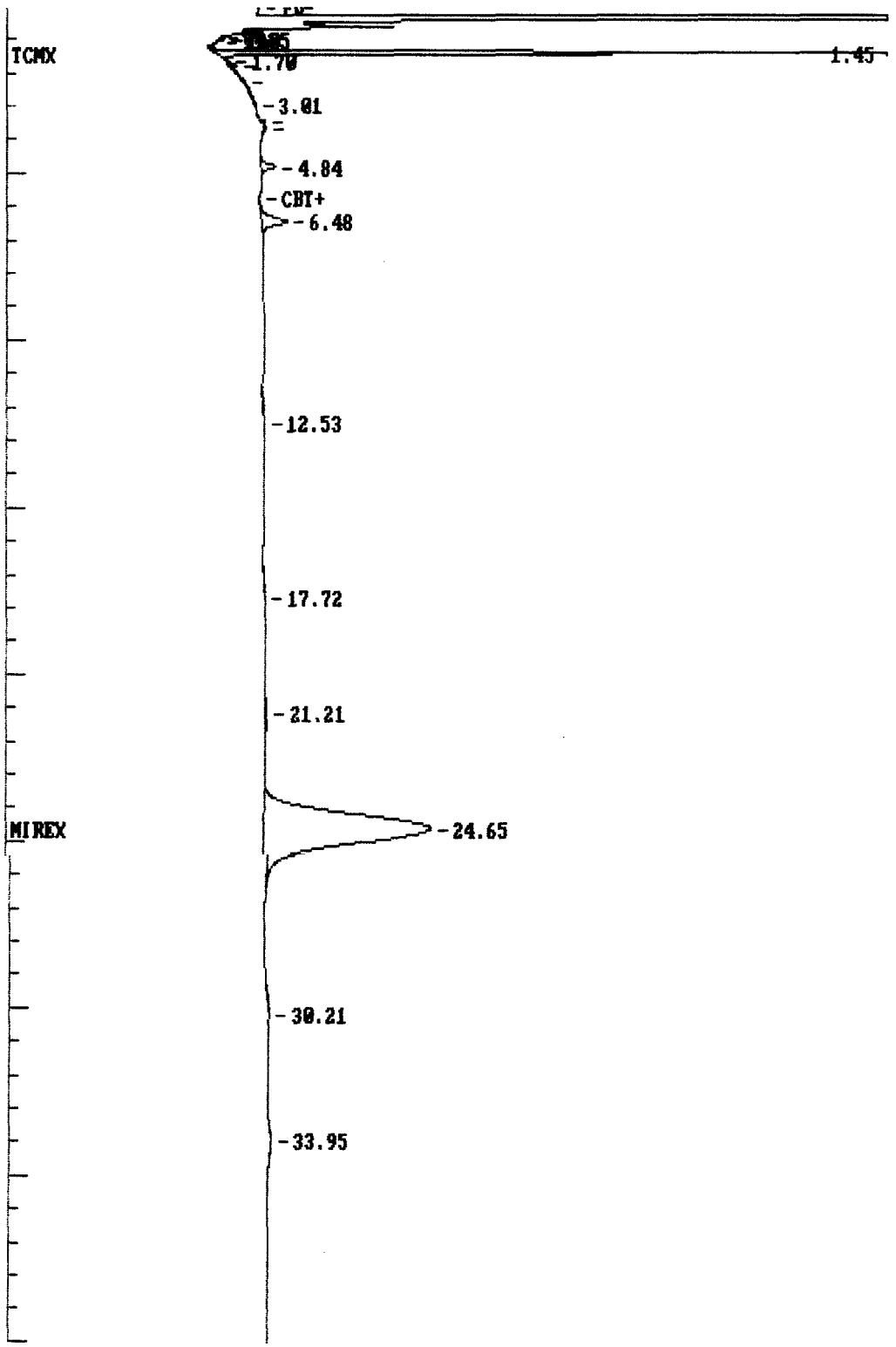
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.45	TCMX	0.0084	100.0000%	803999	197854	4.1	1	14	14	0	1.0471E-08
14	24.65	MIREX	1.0000	0.0000%	2494740	41214	60.5	1	14	14	0	4.0084E-07

TOTAL AMOUNT = 0.0084

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC018.PTS Printed on 11-16-1990 at 12:59:49
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2TCMXR

***** INTERNAL STANDARD TABLE *****

```
******************** 11-19-1990 10:25:41 Version 4.1 **********************
* Sample Name: TCMX # 4                          Data File: U:2ALC027      *
* Date: 11-14-1990 07:07:31 Method: U:2TCMXR 11-19-1990 10:25:01  #  94    *
* Interface: 0   Cycle#:  27   Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~PRIM~~ QUANT *
* Misc. Information: PRIMARY COLUMN                  ~~CONFIRMATORY CO~~   *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

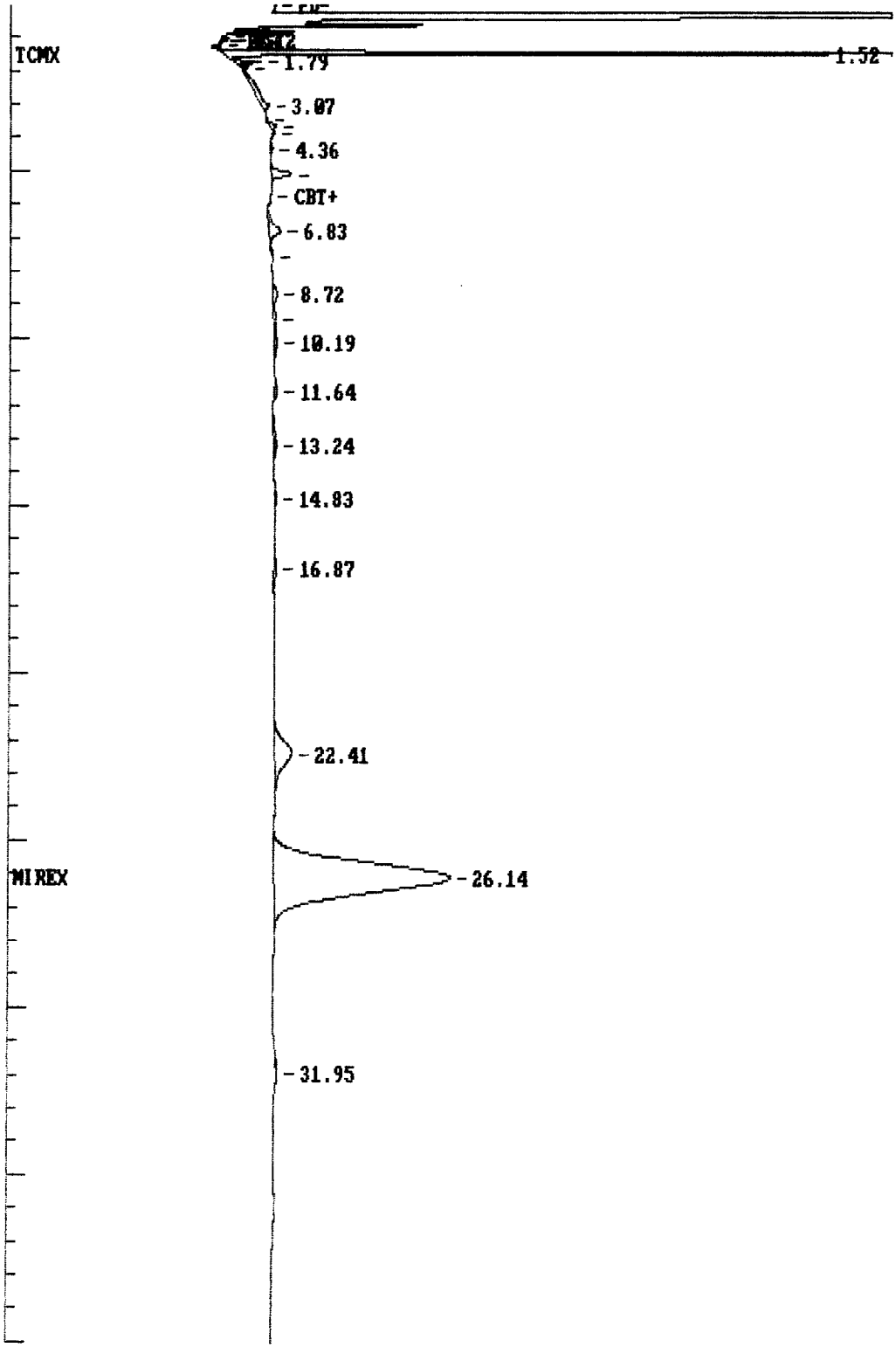
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.52	TCMX	0.0088	100.0000%	881618	214747	4.1	1	23	23	0	9.9789E-09
23	26.14	MIREX	1.0000	0.0000%	2662959	43325	61.5	1	23	23	0	3.7552E-07

TOTAL AMOUNT = 0.0088

KM 11/19/90

PRIMARY COLUMN

Data File = U:2ALC027.PTS Printed on 11-19-1990 at 10:26:26
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 08:52:40 Version 4.1 **********

* Sample Name: TCMX 0.009 UG/ML Data File: W:1IC4 *
* Date: 11-06-1990 17:26:26 Method: W:1TCMX 11-13-1990 08:52:18 # 135 *
* Interface: 0 Cycle#: 4 Operator SKF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

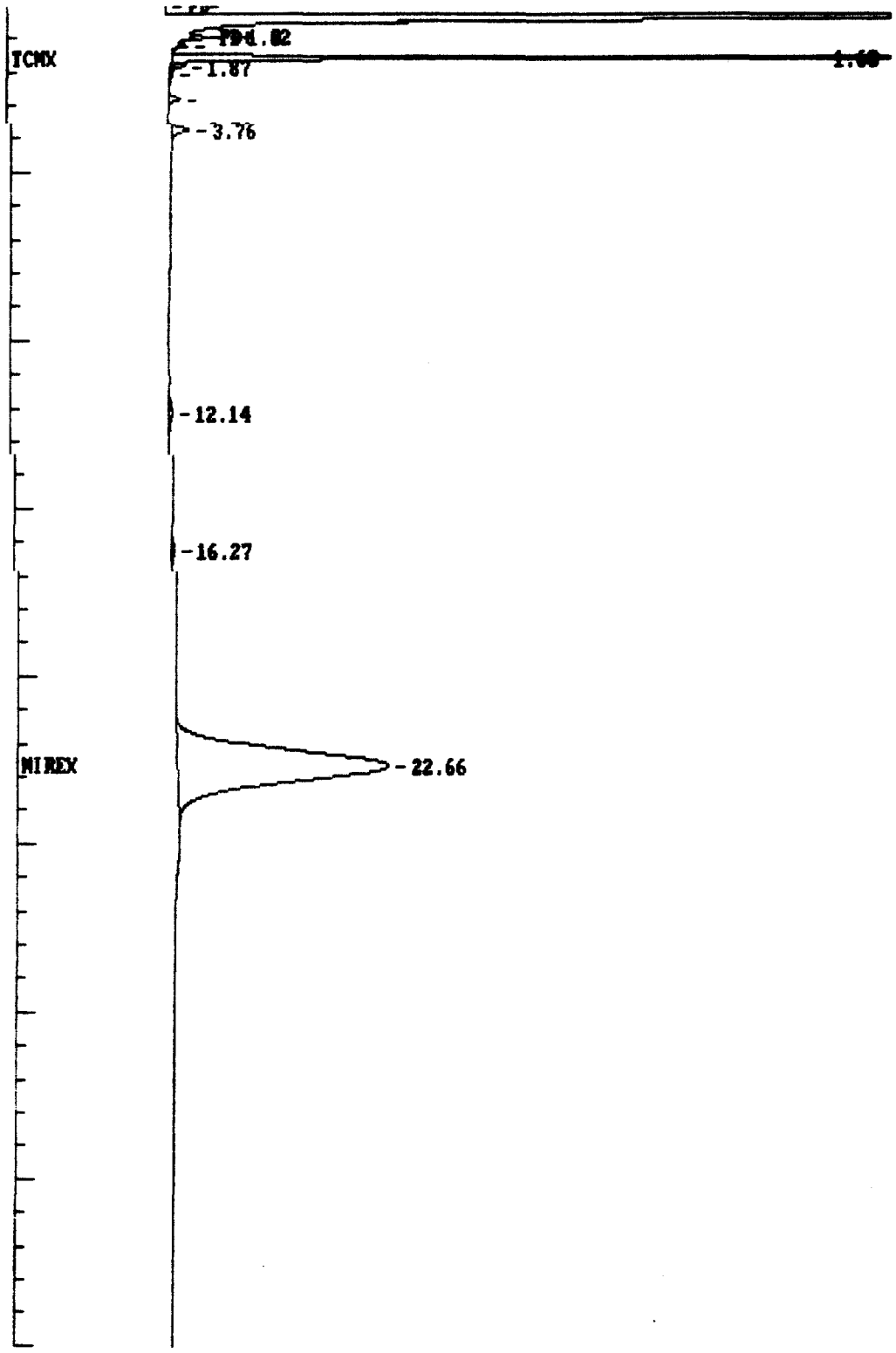
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.60	TCMX	0.0090	100.0000%	1137026	232358	4.9	3	10	10	-.9579	7.9154E-09
10	22.66	MIREX	1.0000	0.0000%	3390661	51799	65.5	1	10	10	0	2.9493E-07

TOTAL AMOUNT = 0.0090

SC 11/13/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC4.ATB
Data File = W:1IC4.PTS Printed on 11-06-1990 at 17:26:42
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

NEW TIMED EVENTS FROM U:1TCMX1

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-19-1990 10:48:28 Version 4.1 *********************
* Sample Name: TCMX #2                          Data File: U:1ALC08        *
* Date: 11-13-1990 11:34:53 Method: U:1TCMX1 11-19-1990 10:47:34  #  136   *
* Interface: 0   Cycle#:  8    Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *   *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

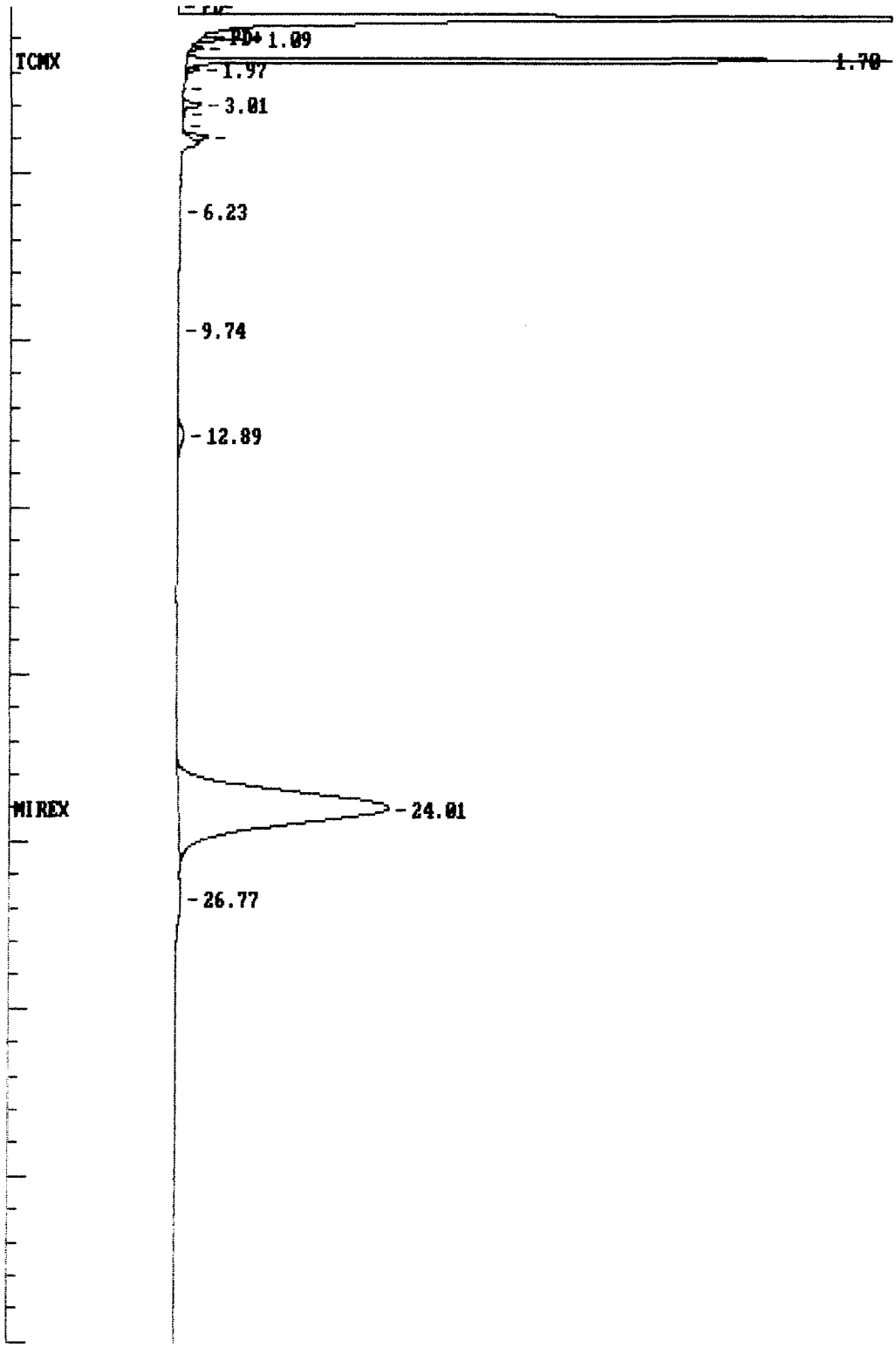
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.70	TCMX	0.0093	100.0000%	1213905	242595	5.0	3	13	13	.1808	7.6970E-09
13	24.01	MIREX	1.0000	0.0000%	3486871	51925	67.2	1	13	13	0	2.8679E-07

TOTAL AMOUNT = 0.0093

KM
11/19/90

SECONDARY COLUMN

Data File = U:1ALC08.PTS Printed on 11-19-1990 at 10:49:01
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

Output redirected to LPT1:
TCMX #3 Processed: 11-13-1990 18:12:02, segment 12, cycle 17
RAW DATA SAVED IN FILE U:1ALC017.PTS Second Channel Stored in U:2ALC017.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 18:12:11 Version 4.1 **********
* Sample Name: TCMX #3 Data File: U:1ALC017 *
* Date: 11-13-1990 18:12:07 Method: U:1TCMX 11-12-1990 11:18:43 # 135 *
* Interface: 0 Cycle#: 17 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

DKC 11/20/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

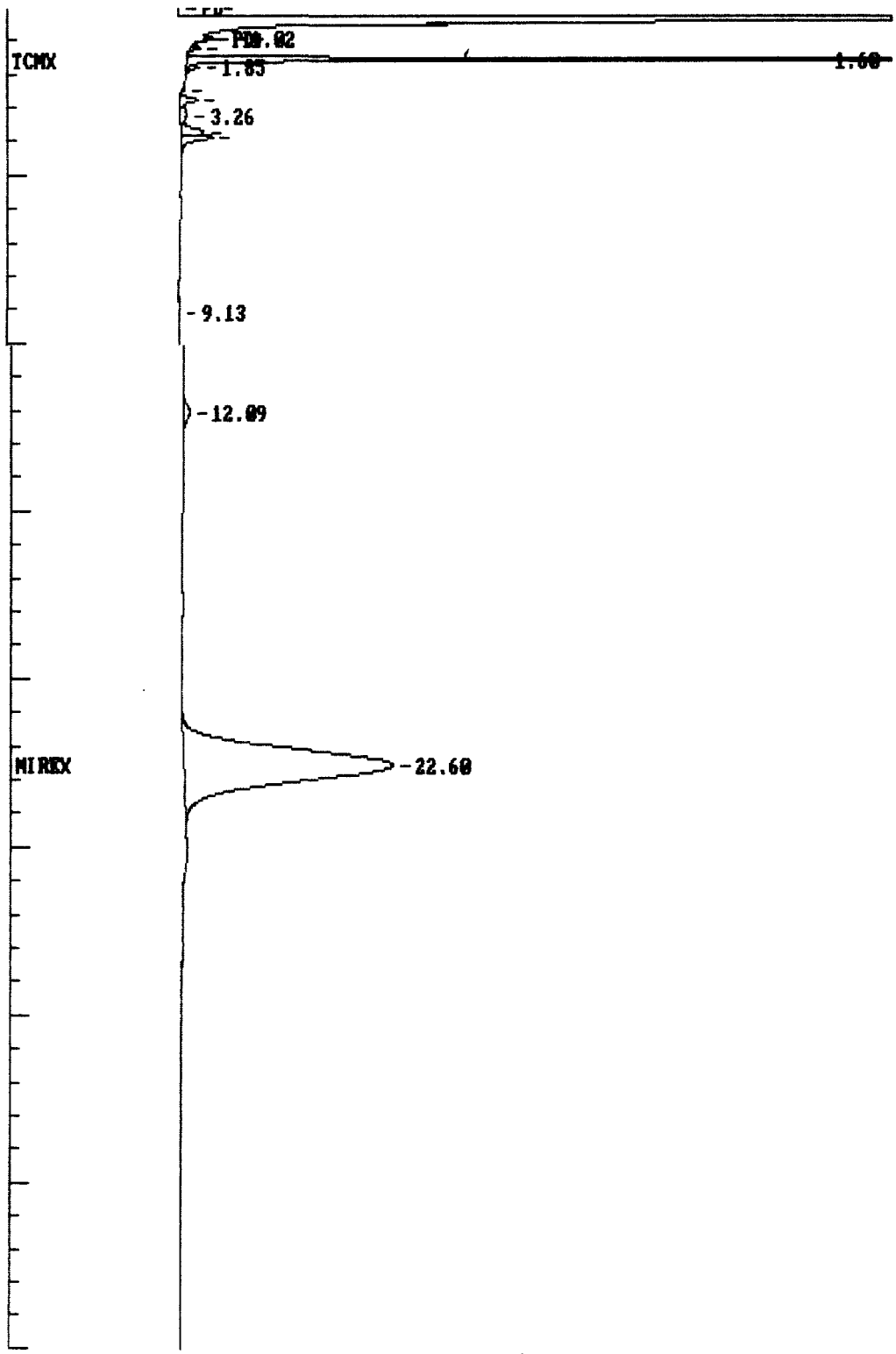
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/µML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.60	TCMX	0.0084	100.0000%	1107952	233326	4.7	3	12	12	-.6651	7.5478E-09
12	22.60	MIREX	1.0000	0.0000%	3350416	51288	65.3	1	12	12	0	2.9847E-07

TOTAL AMOUNT = 0.0084

KM 11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC017.ATB
Data File = U:1ALC017.PTS Printed on 11-13-1990 at 18:12:24
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-19-1990 10:51:11 Version 4.1 ********************
* Sample Name: TCMX #4                          Data File: U:1ALC026      *
* Date: 11-14-1990 00:48:59 Method: U:1TCMX 11-12-1990 11:18:43  #  135   *
* Interface: 0   Cycle#:  26   Operator DKC Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*           Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:        *   *
*************************************************************************
```

DKC 11/26/90

```
Starting Delay:    0.00                    Ending retention time:   40.00
Area reject:         0                     One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

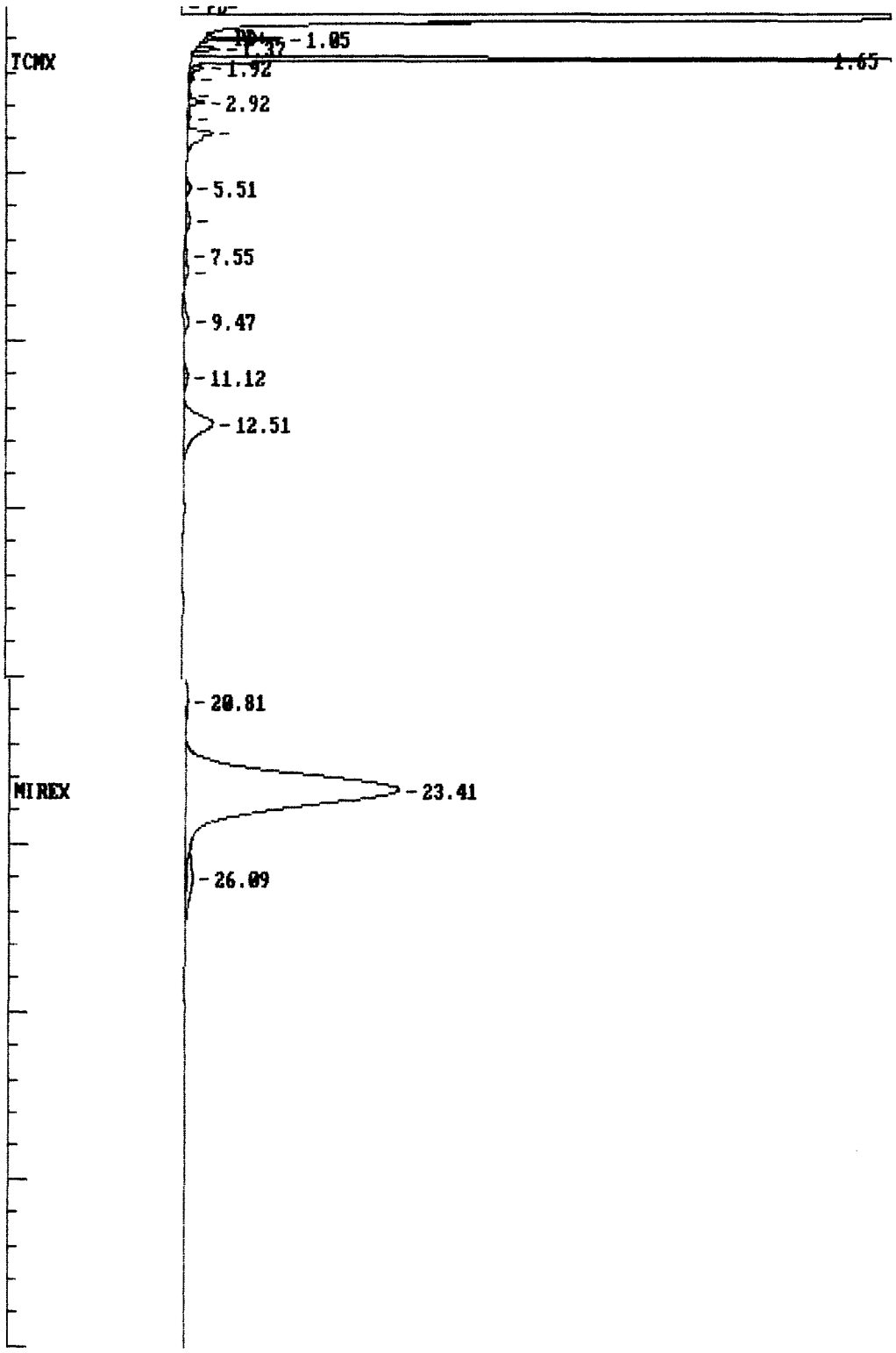
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.65	TCMX	0.0082	100.0000%	1149658	235353	4.9	3	18	18	-1.141	7.1452E-09
18	23.41	MIREX	1.0000	0.0000%	3539202	52248	67.7	3	18	18	0	2.8255E-07

TOTAL AMOUNT = 0.0082

UM
11/19/90

SECONDARY COLUMN

Data File = U:1ALCO26.PTS Printed on 11-19-1990 at 10:51:45
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PART IV

AQC Reports and Chromatograms

A. Solvent Blanks
   i) Primary
   ii) Secondary

B. Method Blank
   i) Primary
   ii) Secondary

C. Matrix Spike/Matrix Spike Duplicates Pesticide and PCB
   i) Primary
   ii) Secondary

4

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-07-1990 13:46:28 Version 4.1 **********

* Sample Name: HEXANE-1 Data File: W:2IC2 *
* Date: 11-06-1990 15:58:10 Method: W:2PESTA 11-07-1990 13:08:06 # 127 *
* Interface: 0 Cycle#: 2 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ * 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Kg	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	24.70	MIREX	1.0000	0.0000%	2454880	41055	59.8	1	5	5	0	4.0735E-07
~~6~~	~~30.24~~	~~METHOXYCHLOR~~	~~0.0006~~	~~100.0000%~~	~~4370~~	~~96~~	~~45.5~~	~~1~~	~~5~~	~~5~~	~~2.541~~	~~1.3475E-07~~

TOTAL AMOUNT = 0.0006

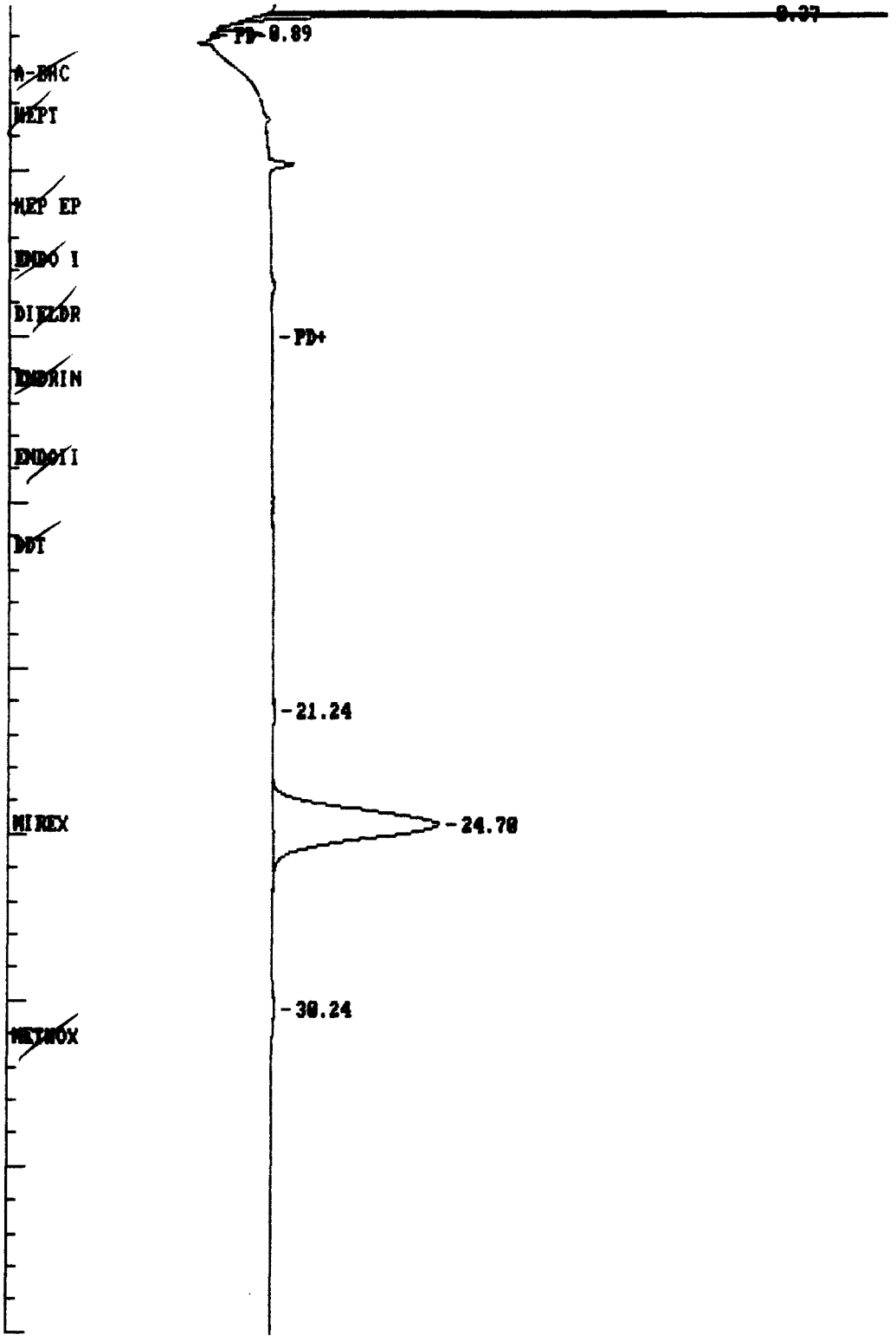
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	2.12	MIREX
LINDANE	2.68	MIREX
HEPT	3.35	MIREX
ALDRIN	4.05	MIREX
HEP EPOX	6.05	MIREX
ENDO I	7.63	MIREX
DIELDRIN	9.32	MIREX
ENDRIN	11.28	MIREX
ENDOII	13.63	MIREX
DDT	16.28	MIREX

SB 11/9/90

PRIMARY COLUMN

Data File = W:2IC2.PTS Printed on 11-07-1990 at 13:47:26
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/9/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM W:2PESTB

***** INTERNAL STANDARD TABLE *****

********** 11-11-1990 11:43:15 Version 4.1 **********

* Sample Name: HEXANE-1 Data File: W:2IC2 *
* Date: 11-06-1990 15:58:10 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 2 Operator SKF Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~CONFIRMATORY COLUMN~~ ~~CONFIRMATORY CO~~ *

DKR 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~3.52~~	~~B BHC~~	~~0.0006~~	~~66.5410%~~	~~36634~~	~~2038~~	~~18.0~~	~~2~~	~~6~~	~~6~~	~~1.068~~	~~1.7493E-08~~
~~4~~	~~8.47~~	~~DDE~~	~~0.0007~~	~~71.5015%~~	~~20530~~	~~918~~	~~22.4~~	~~1~~	~~6~~	~~6~~	~~4.176~~	~~3.3541E-08~~
~~5~~	~~21.24~~	~~END SULFATE~~	~~0.0013~~	~~135.0561%~~	~~2301~~	~~94~~	~~24.4~~	~~1~~	~~6~~	~~6~~	~~1.367~~	~~5.6536E-07~~
6	24.70	MIREX	1.0000	0.0000%	2454880	41055	59.8	1	6	6	0	4.0735E-07
~~7~~	~~30.24~~	~~END KETONE~~	~~-0.0010~~	~~102.9864%~~	~~4370~~	~~96~~	~~45.5~~	~~1~~	~~6~~	~~6~~	~~3.717~~	~~-2.2698E-07~~

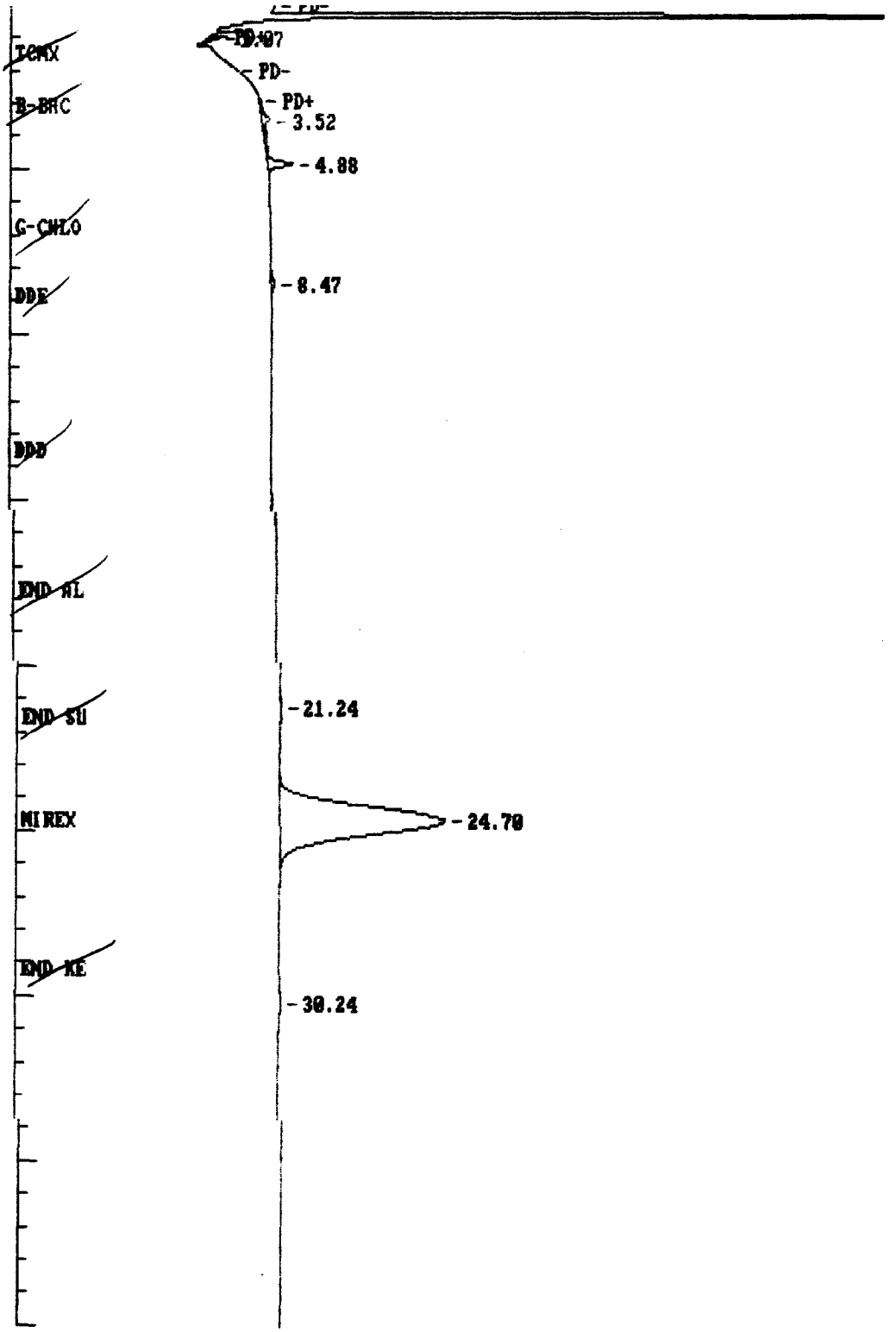
TOTAL AMOUNT = -0.0010

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX
B-BHC	3.05	MIREX
G-CHLORDANE	6.76	MIREX
A-CHLORDANE	7.37	MIREX
DDD	13.48	MIREX
END ALDEHYDE	17.69	MIREX

11/13/90

Data File = W:2IC2.PTS Printed on 11-11-1990 at 11:43:39
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/13/90

SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-07-1990 10:58:07 Version 4.1 **********************
* Sample Name: HEXANE-1                          Data File: W:1IC1        *
* Date: 11-06-1990 15:13:47 Method: W:1PESTA 11-07-1990 09:11:53  #  168  *
* Interface: 0   Cycle#:  1    Operator SKF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *  *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 — Ending retention time: 40.00
Area reject: 0 — One sample per 1.002 sec.
Amount injected: 1.00 — Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~6~~	~~12.46~~	~~DET~~	~~0.0030~~	~~100.0000%~~	~~23929~~	~~741~~	~~32.3~~	~~1~~	~~7~~	~~7~~	~~.7133~~	~~1.2424E-07~~
7	23.20	MIREX	1.0000	0.0000%	3398641	50698	67.0	3	7	7	0	2.9424E-07

TOTAL AMOUNT = 0.0030

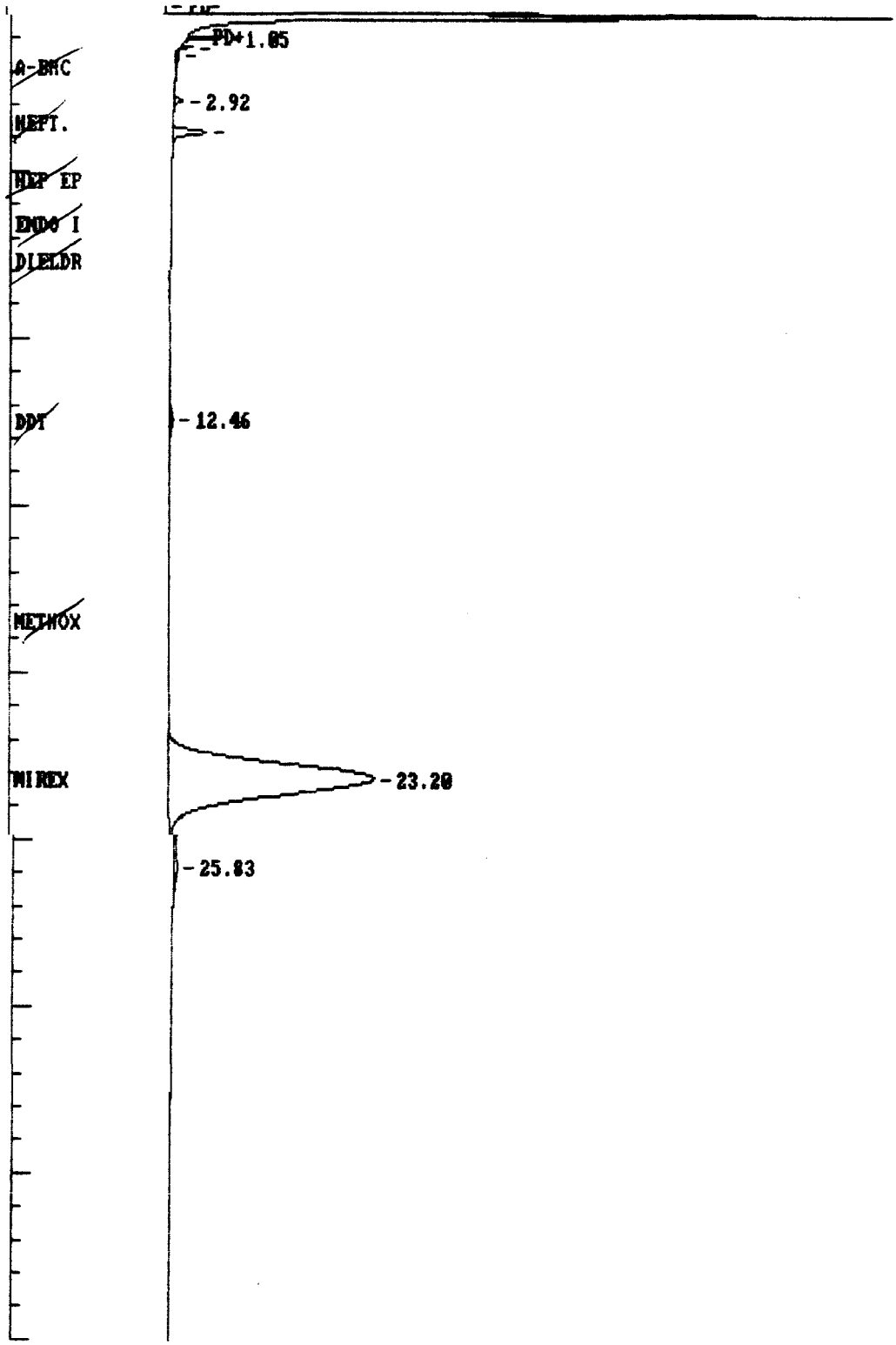
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	1.90	MIREX
LINDANE	2.22	MIREX
HEPT.	3.54	MIREX
ALDRIN	4.39	MIREX
HEP EPOX	5.32	MIREX
ENDO I	6.61	MIREX
DIELDRIN	7.70	MIREX
EN + EN II	8.70	MIREX
METHOXYCHLOR	18.50	MIREX

11/13/90

SECONDARY COLUMN

Data File = W:1IC1.PTS Printed on 11-07-1990 at 10:56:53
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



88
11/13/90

SECONDARY COLUMN

SEQUENCE RECORDED IN W:2IC.SEQ

***** INTERNAL STANDARD TABLE *****

********** 11-11-1990 11:41:29 Version 4.1 **********

* Sample Name: HEXANE-1 Data File: W:1IC1 *
* Date: 11-06-1990 15:13:47 Method: W:1PESTB 11-07-1990 10:19:54 # 170 *
* Interface: 0 Cycle#: 1 Operator SKF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *DKC 11/26/90
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.55~~	~~TCMX~~	~~0.0002~~	~~100.0000%~~	~~25124~~	~~097~~	~~28.0~~	~~2~~	~~7~~	~~7~~	~~4.733~~	~~8.1890E-09~~
7	23.20	MIREX	1.0000	0.0000%	3398641	50698	67.0	3	7	7	0	2.9424E-07

TOTAL AMOUNT = 0.0002

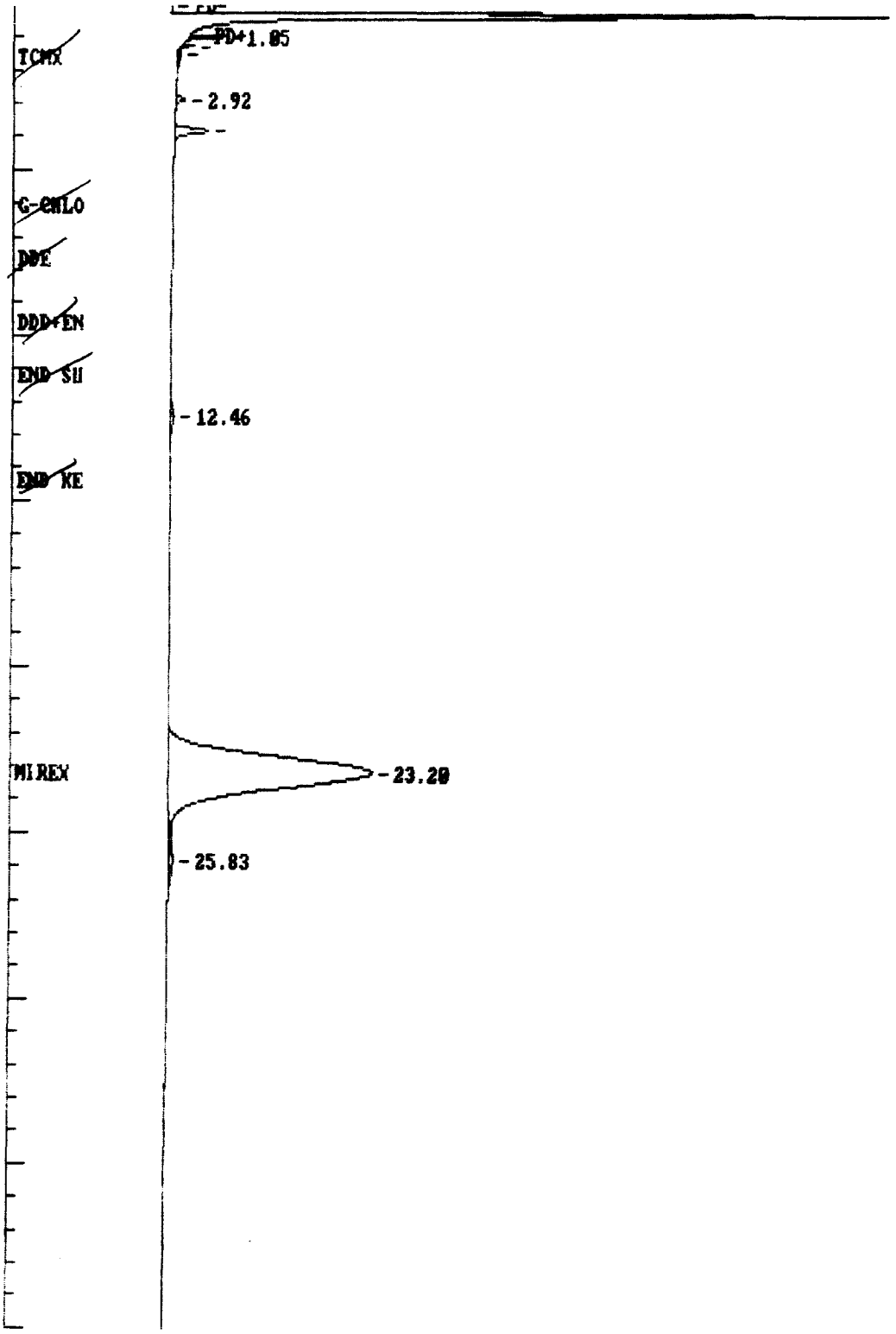
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	2.02	MIREX
D-BHC	2.25	MIREX
G-CHLOR	6.08	MIREX
A-CHLOR	6.72	MIREX
DDE	7.65	MIREX
DDD+END ALD	9.61	MIREX
END SULFATE	11.21	MIREX
END KETONE	14.39	MIREX

11/13/90

SECONDARY COLUMN

Data File = W:1IC1.PTS Printed on 11-11-1990 at 11:41:57
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/13/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2PESTA

****** INTERNAL STANDARD TABLE ******

********** 11-16-1990 14:49:08 Version 4.1 **********

* Sample Name: HEXANE #3 Data File: U:2ALCO2 *
* Date: 11-12-1990 12:49:40 Method: U:2PESTA 11-16-1990 14:10:05 # 129 *
* Interface: 0 Cycle#: 2 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~3.52~~	~~HEPT~~	~~0.0023~~	~~77.3363%~~	~~218430~~	~~2879~~	~~75.9~~	~~1~~	~~0~~	~~0~~	~~4.551~~	~~1.0643E-08~~
8	24.85	MIREX	1.0000	0.0000%	2514603	41893	60.0	1	0	0	0	3.9768E-07
~~9~~	~~30.38~~	~~METHOXYCHLOR~~	~~0.0007~~	~~22.6637%~~	~~8261~~	~~216~~	~~38.3~~	~~1~~	~~0~~	~~0~~	~~2.703~~	~~8.2463E-08~~

TOTAL AMOUNT = 0.0030

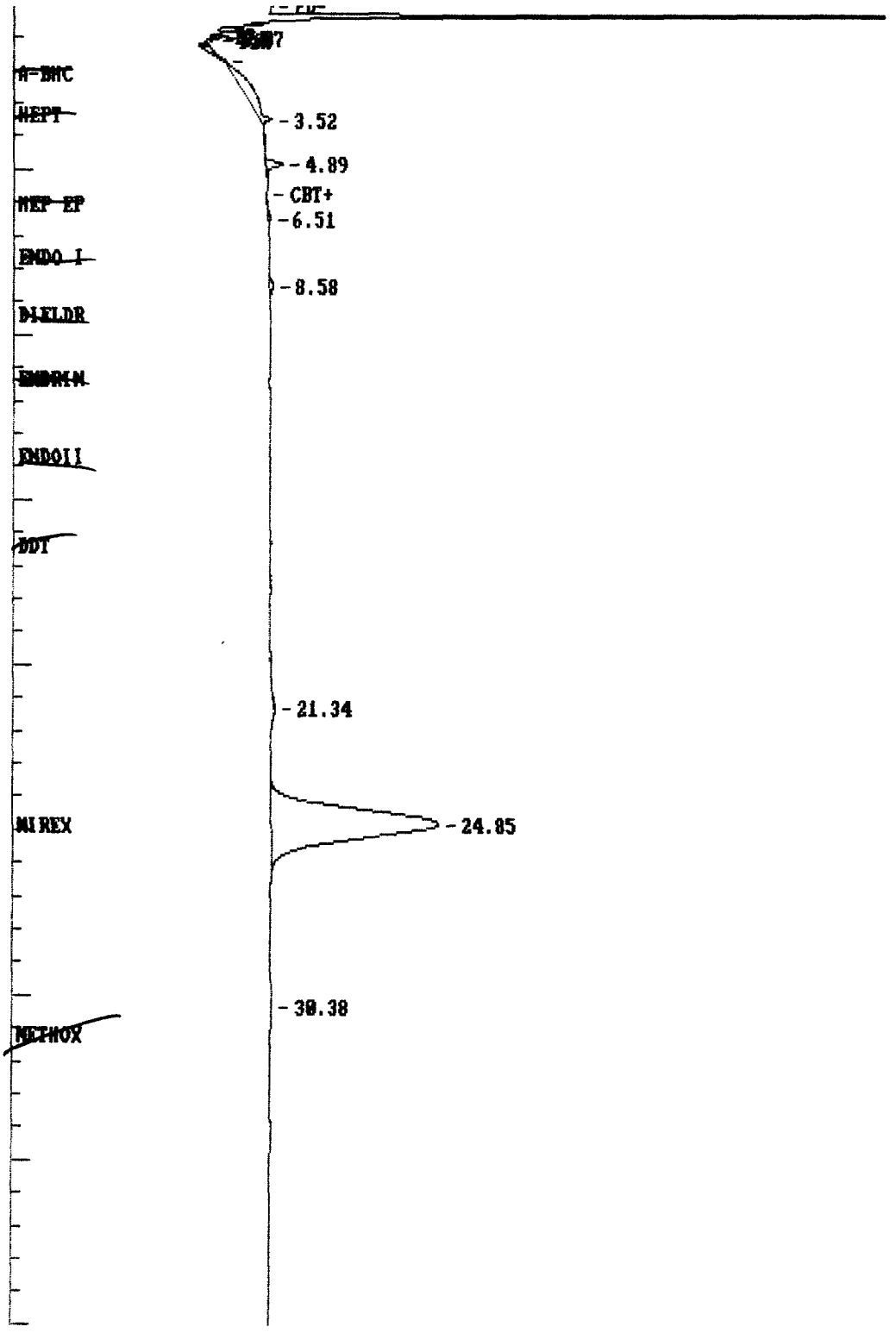
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	2.13	MIREX
LINDANE	2.70	MIREX
ALDRIN	4.07	MIREX
HEP EPOX	6.09	MIREX
ENDO I	7.68	MIREX
DIELDRIN	9.37	MIREX
ENDRIN	11.35	MIREX
ENDOII	13.72	MIREX
DDT	16.38	MIREX

DKC
11/19/90

PRIMARY COLUMN

Data File = U:2ALCO2.PTS Printed on 11-16-1990 at 14:00:38
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

PRIMARY COLUMN

INTERNAL STANDARD TABLE

********** 11-16-1990 14:52:53 Version 4.1 **********

* Sample Name: HEXANE #3 Data File: U:2ALCO2 *
* Date: 11-12-1990 12:49:40 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 2 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT ~~CONFIRMATORY CO~~ * DKC 11/26/90
* Misc. Information: PRIMARY COLUMN *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~3.52~~	~~D-BHC~~	~~0.0005~~	~~-30.3600%~~	~~23892~~	~~2336~~	~~10.2~~	~~1~~	~~8~~	~~8~~	~~-1.666~~	~~1.9382E-08~~
~~5~~	~~6.51~~	~~G-CHLORDANE~~	~~-0.0005~~	~~30.6658%~~	~~14741~~	~~649~~	~~22.7~~	~~1~~	~~8~~	~~8~~	~~-4.199~~	~~-3.1730E-08~~
~~6~~	~~8.58~~	~~DDE~~	~~0.0007~~	~~-43.4990%~~	~~19397~~	~~887~~	~~21.9~~	~~1~~	~~8~~	~~8~~	~~-3.461~~	~~3.4206E-08~~
~~7~~	~~21.34~~	~~END SULFATE~~	~~0.0012~~	~~81.5072%~~	~~5952~~	~~213~~	~~28.0~~	~~1~~	~~8~~	~~8~~	~~-1.501~~	~~-2.0888E-07~~
8	24.85	MIREX	1.0000	0.0000%	2514603	41893	60.0	1	8	8	0	3.9768E-07
~~9~~	~~30.38~~	~~END KETONE~~	~~0.0009~~	~~61.6859%~~	~~8261~~	~~216~~	~~38.3~~	~~1~~	~~8~~	~~8~~	~~3.545~~	~~-1.1389E-07~~

TOTAL AMOUNT = -0.0015

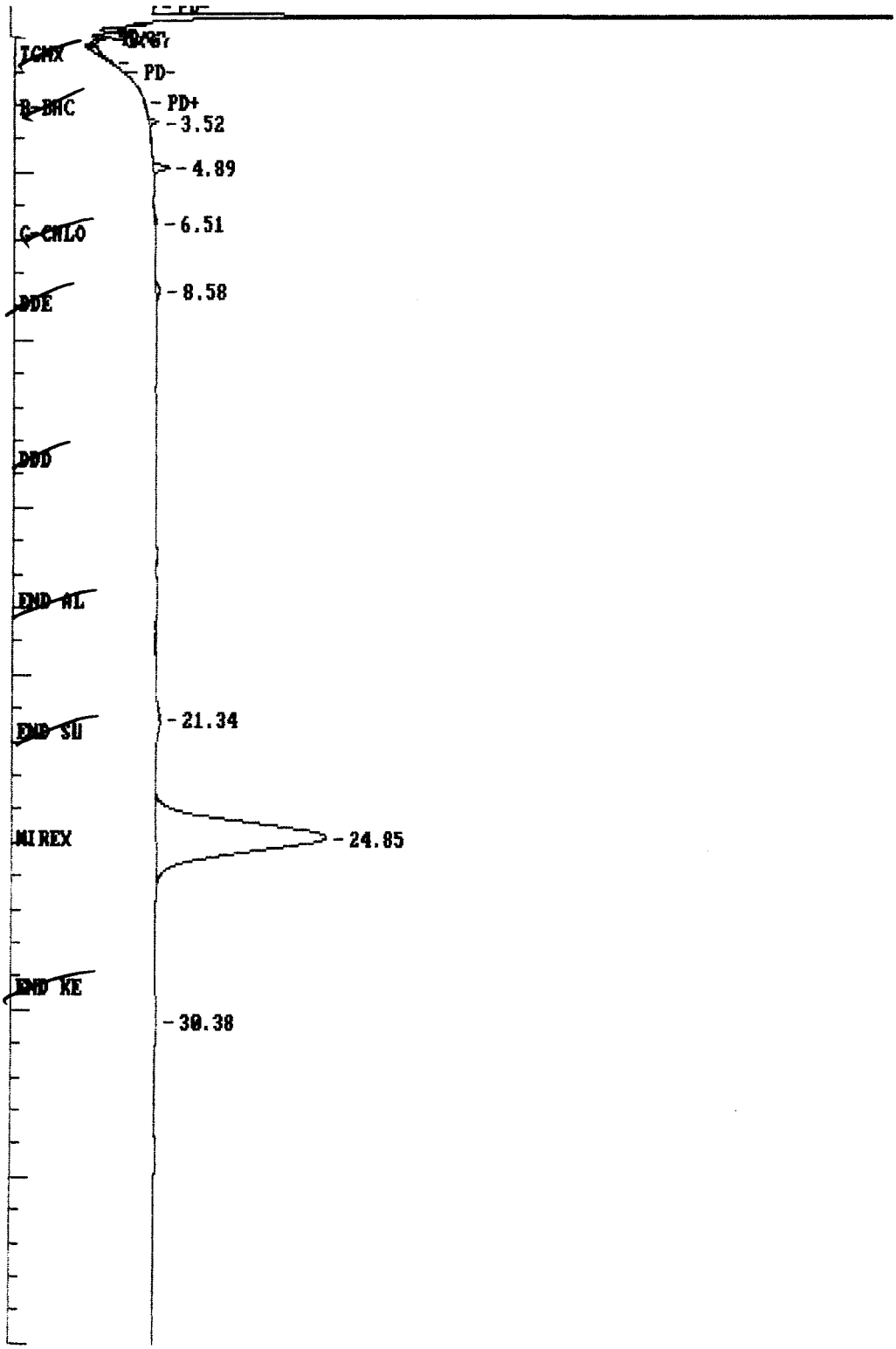
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.45	MIREX
B-BHC	3.06	MIREX
A-CHLORDANE	7.42	MIREX
DDD	13.56	MIREX
END ALDEHYDE	17.80	MIREX

WT 11/19/90

PRIMARY COLUMN

Data File = U:2ALCO2.PTS Printed on 11-16-1990 at 14:53:13
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
HEXANE #3 Processed: 11-12-1990 12:05:13, segment 1, cycle 1
RAW DATA SAVED IN FILE U:1ALCO1.PTS Second Channel Stored in U:2ALCO1.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-12-1990 12:05:23 Version 4.1 **********
* Sample Name: HEXANE #3 Data File: U:1ALCO1 *
* Date: 11-12-1990 12:05:18 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 1 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML ~~UG/L~~	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~6~~	~~12.24~~	~~DDT~~	~~0.0036~~	~~100.0000%~~	~~73473~~	~~2074~~	~~35.4~~	~~1~~	~~7~~	~~7~~	~~-1.090~~	~~4.8639E-08~~
7	22.88	MIREX	1.0000	0.0000%	3479052	52601	66.1	1	7	7	0	2.8743E-07

TOTAL AMOUNT = 0.0036

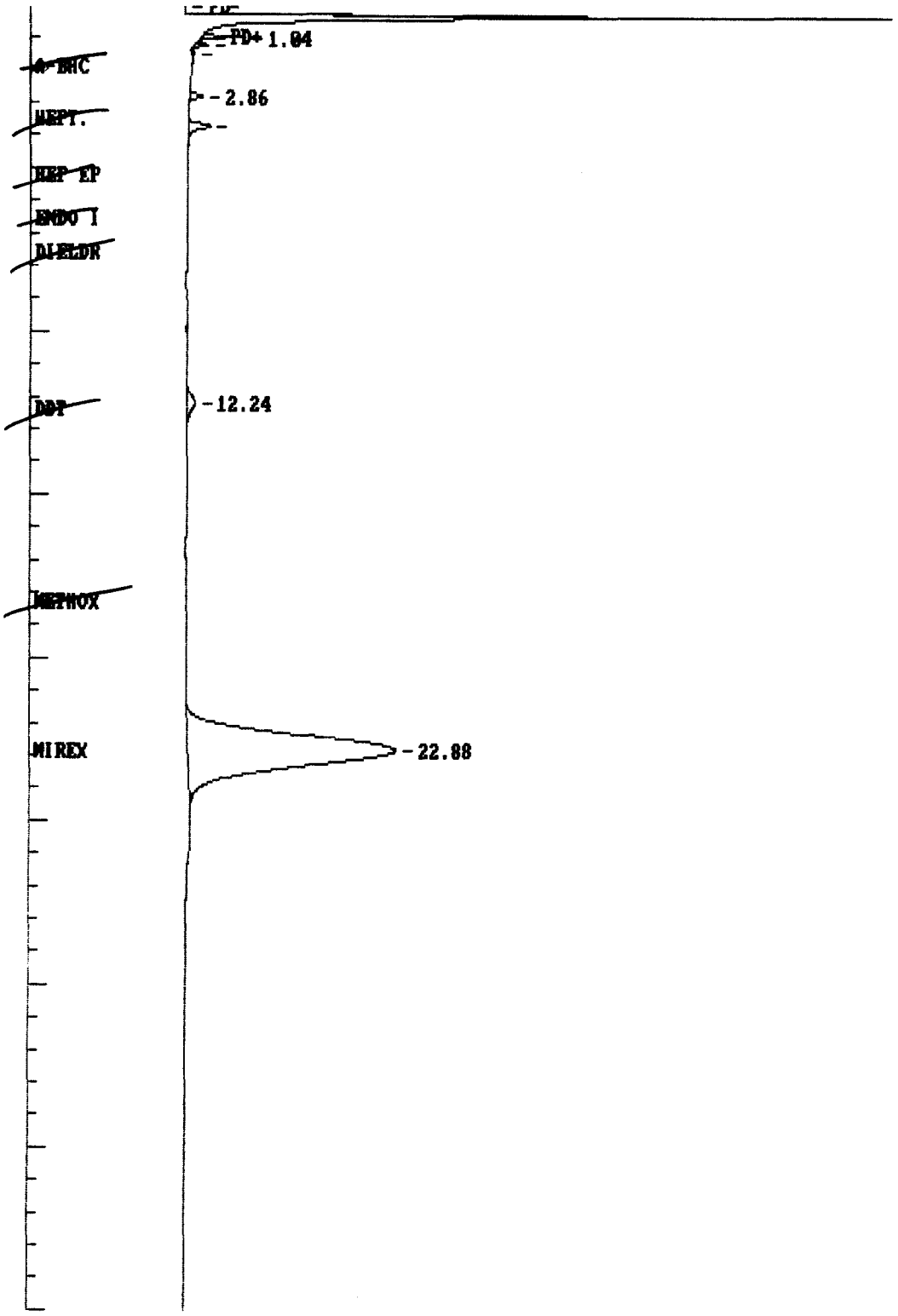
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	1.87	MIREX
LINDANE	2.19	MIREX
HEPT.	3.50	MIREX
ALDRIN	4.33	MIREX
HEP EPOX	5.25	MIREX
ENDO I	6.52	MIREX
DIELDRIN	7.59	MIREX
EN + EN II	8.58	MIREX
METHOXYCHLOR	18.25	MIREX

KM
11/18/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC01.ATB
Data File = U:1ALC01.PTS Printed on 11-12-1990 at 12:05:41
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UT
11/19/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 16:10:31 Version 4.1 **********

* Sample Name: HEXANE #3 Data File: U:1ALCO1 *
* Date: 11-12-1990 12:05:18 Method: U:1PESTB 11-07-1990 10:19:54 # 170 *
* Interface: 0 Cycle#: 1 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.52~~	~~TCMX~~	~~0.0000~~	~~100.0000%~~	~~4283~~	~~610~~	~~7.0~~	~~1~~	~~7~~	~~7~~	~~-5.489~~	~~7.9997E-09~~
7	22.88	MIREX	1.0000	0.0000%	3479052	52601	66.1	1	7	7	0	2.8743E-07

TOTAL AMOUNT = 0.0000

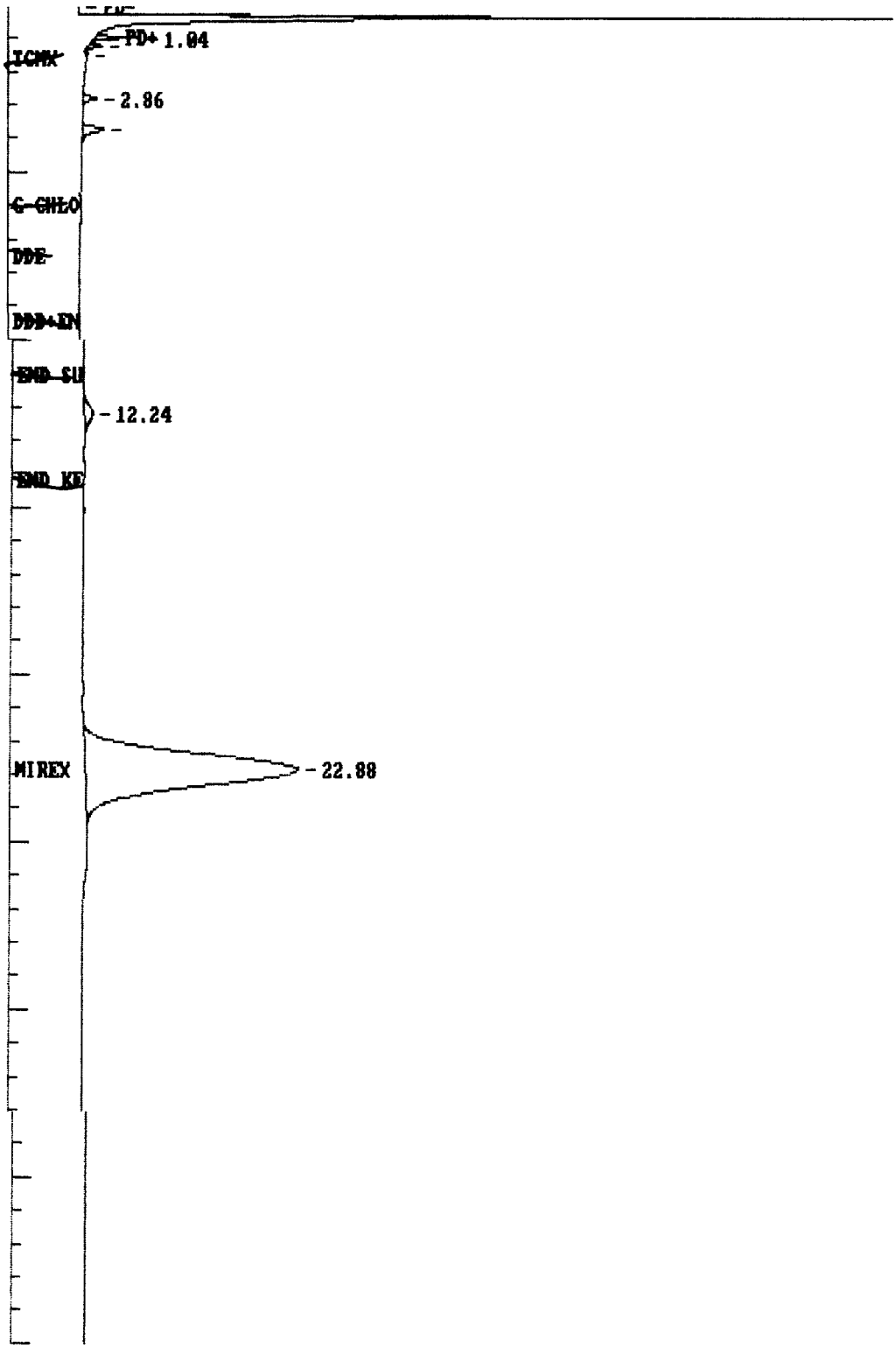
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	1.99	MIREX
D-BHC	2.22	MIREX
G-CHLOR	6.00	MIREX
A-CHLOR	6.63	MIREX
DDE	7.54	MIREX
DDD+END ALD	9.48	MIREX
END SULFATE	11.06	MIREX
END KETONE	14.19	MIREX

11/19/90

SECONDARY COLUMN

Data File = U:1ALC01.PTS Printed on 11-16-1990 at 16:10:48
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KWT
11/19/90

PRIMARY COLUMN

****** INTERNAL STANDARD TABLE ******

********** 11-16-1990 15:20:45 Version 4.1 **********

* Sample Name: SF 7465 MB Data File: U:2ALCO10 *
* Date: 11-13-1990 13:03:07 Method: U:2PESTA 11-16-1990 14:10:05 # 129 *
* Interface: 0 Cycle#: 10 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

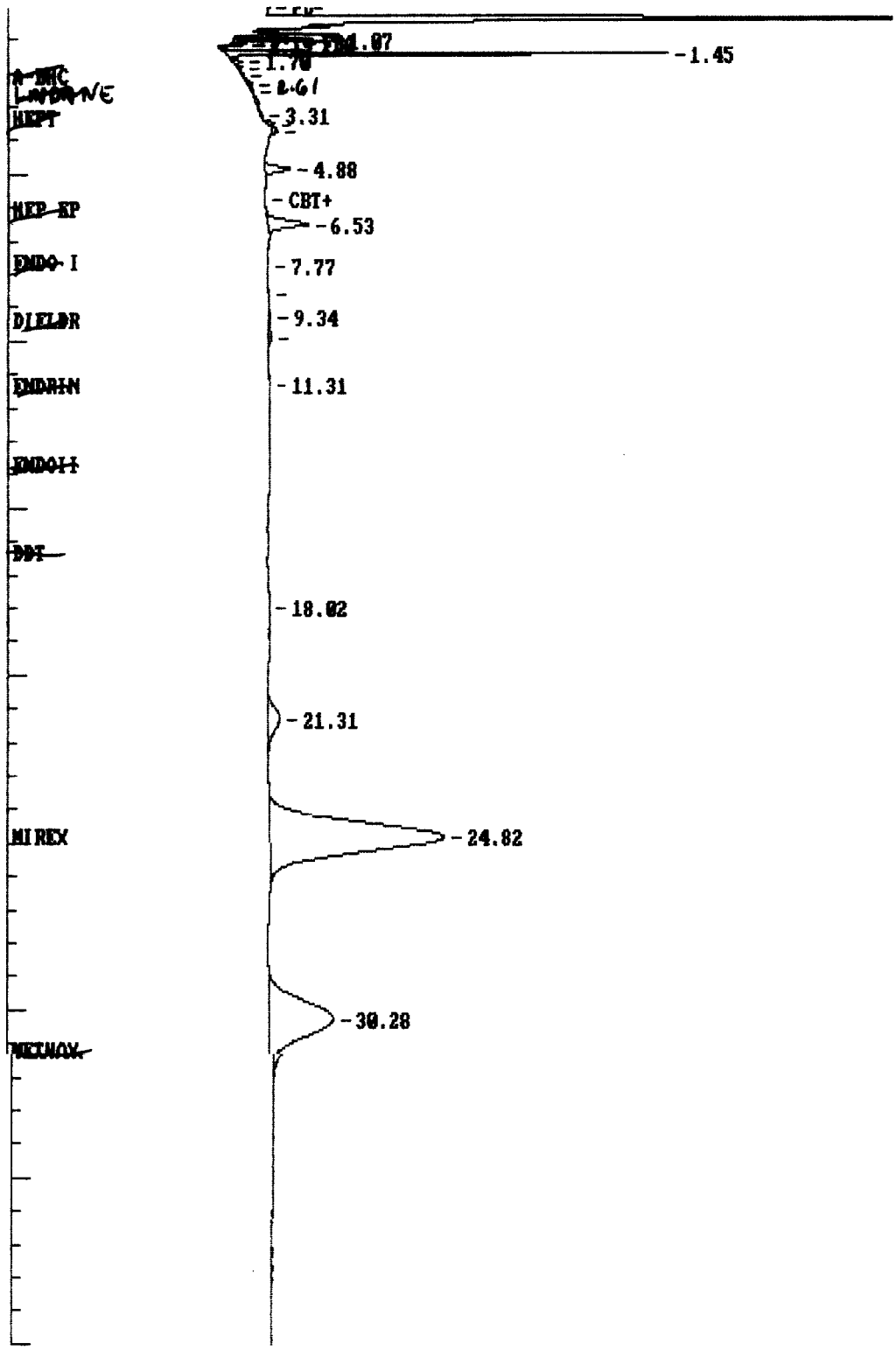
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L ug/l	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~7~~	~~2.10~~	~~A BHC~~	~~0.0015~~	~~0.5122%~~	~~2067~~	~~381~~	~~5.4~~	~~1~~	~~22~~	~~22~~	~~-1.054~~	~~7.3851E-07~~
~~9~~	~~2.61~~	~~LINDANE~~	~~0.0028~~	~~0.9448%~~	~~4258~~	~~385~~	~~11.1~~	~~1~~	~~22~~	~~22~~	~~-3.366~~	~~6.6128E-07~~
~~10~~	~~3.31~~	~~HEPT~~	~~-0.0035~~	~~-1.1849%~~	~~12297~~	~~328~~	~~37.5~~	~~1~~	~~22~~	~~22~~	~~-1.757~~	~~-2.8718E-07~~
~~15~~	~~7.77~~	~~ENDO I~~	~~0.0005~~	~~0.1627%~~	~~1266~~	~~100~~	~~12.6~~	~~1~~	~~22~~	~~22~~	~~1.255~~	~~3.8315E-07~~
~~17~~	~~9.34~~	~~DIELDRIN~~	~~0.0027~~	~~0.9217%~~	~~8118~~	~~400~~	~~20.3~~	~~2~~	~~22~~	~~22~~	~~.2691~~	~~3.3841E-07~~
~~19~~	~~11.31~~	~~ENDRIN~~	~~0.0109~~	~~3.6432%~~	~~1599~~	~~68~~	~~23.7~~	~~1~~	~~22~~	~~22~~	~~-.2691~~	~~6.7918E-06~~
22	24.82	MIREX	1.0000	0.0000%	2575833	42993	59.9	1	22	22	0	3.8822E-07
~~[illegible]~~	~~30.28~~	~~METHOXYCHLOR~~	~~0.2841~~	~~95.3256%~~	~~1171565~~	~~15833~~	~~74.0~~	~~1~~	~~22~~	~~22~~	~~-2.893~~	~~2.4250E-07~~

TOTAL AMOUNT = 0.2980

PEAKS NOT FOUND IN THIS RUN

PRIMARY COLUMN

Data File = U:2ALC010.PTS Printed on 11-16-1990 at 12:24:19
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VGM
4/19/90

PRIMARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-16-1990 14:54:11 Version 4.1 **********************
* Sample Name: SF 7465 MB                          Data File: U:2ALC010     *
* Date: 11-13-1990 13:03:07 Method: W:2PESTB  11-07-1990 14:16:50  #  211 *
* Interface: 0   Cycle#:  10   Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *DKC
* Misc. Information: PRIMARY COLUMN                          ~~CONFIRMATORY CO~~  *11/26/90
*************************************************************************
Starting Delay:    0.00                          Ending retention time:    40.00
Area reject:         0                           One sample per   1.002 sec.
Amount injected:        1.00                     Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.45	TCMX	0.0449	20.6069%	422217	108777	3.9	2	19	19	0	1.0636E-07
DS ~~8~~	~~3.54~~	~~D-BHC~~	~~0.0043~~	~~1.9740%~~	~~21887~~	~~2498~~	~~8.8~~	~~2~~	~~19~~	~~19~~	~~1.067~~	~~1.9654E-07~~
DS ~~11~~	~~6.53~~	~~G-CHLORDANE~~	~~0.0127~~	~~5.8201%~~	~~147214~~	~~9764~~	~~15.1~~	~~1~~	~~19~~	~~19~~	~~3.824~~	~~8.6152E-08~~
~~12~~	~~7.77~~	~~A-CHLORDANE~~	~~0.0048~~	~~2.1842%~~	~~1266~~	~~100~~	~~12.6~~	~~1~~	~~19~~	~~19~~	~~4.824~~	~~3.7610E-06~~
~~17~~	~~8.62~~	~~DDE~~	~~0.0040~~	~~1.8506%~~	~~2539~~	~~183~~	~~13.9~~	~~1~~	~~19~~	~~19~~	~~-2.955~~	~~1.5882E-06~~
~~18~~	~~18.02~~	~~END ALDEHYDE~~	~~0.0074~~	~~3.3836%~~	~~6099~~	~~47~~	~~130.2~~	~~1~~	~~19~~	~~19~~	~~1.368~~	~~1.2090E-06~~
~~19~~	~~21.31~~	~~END SULFATE~~	~~0.0060~~	~~2.7669%~~	~~124458~~	~~2685~~	~~46.4~~	~~1~~	~~19~~	~~19~~	~~-1.523~~	~~4.8446E-08~~
19	24.82	MIREX	1.0000	0.0000%	2575833	42993	59.9	1	19	19	0	3.8822E-07
~~20~~	~~30.28~~	~~END KETONE~~	~~0.1433~~	~~65.7821%~~	~~1171565~~	~~15833~~	~~74.0~~	~~1~~	~~19~~	~~19~~	~~3.342~~	~~1.2236E-07~~

TOTAL AMOUNT = 0.2179

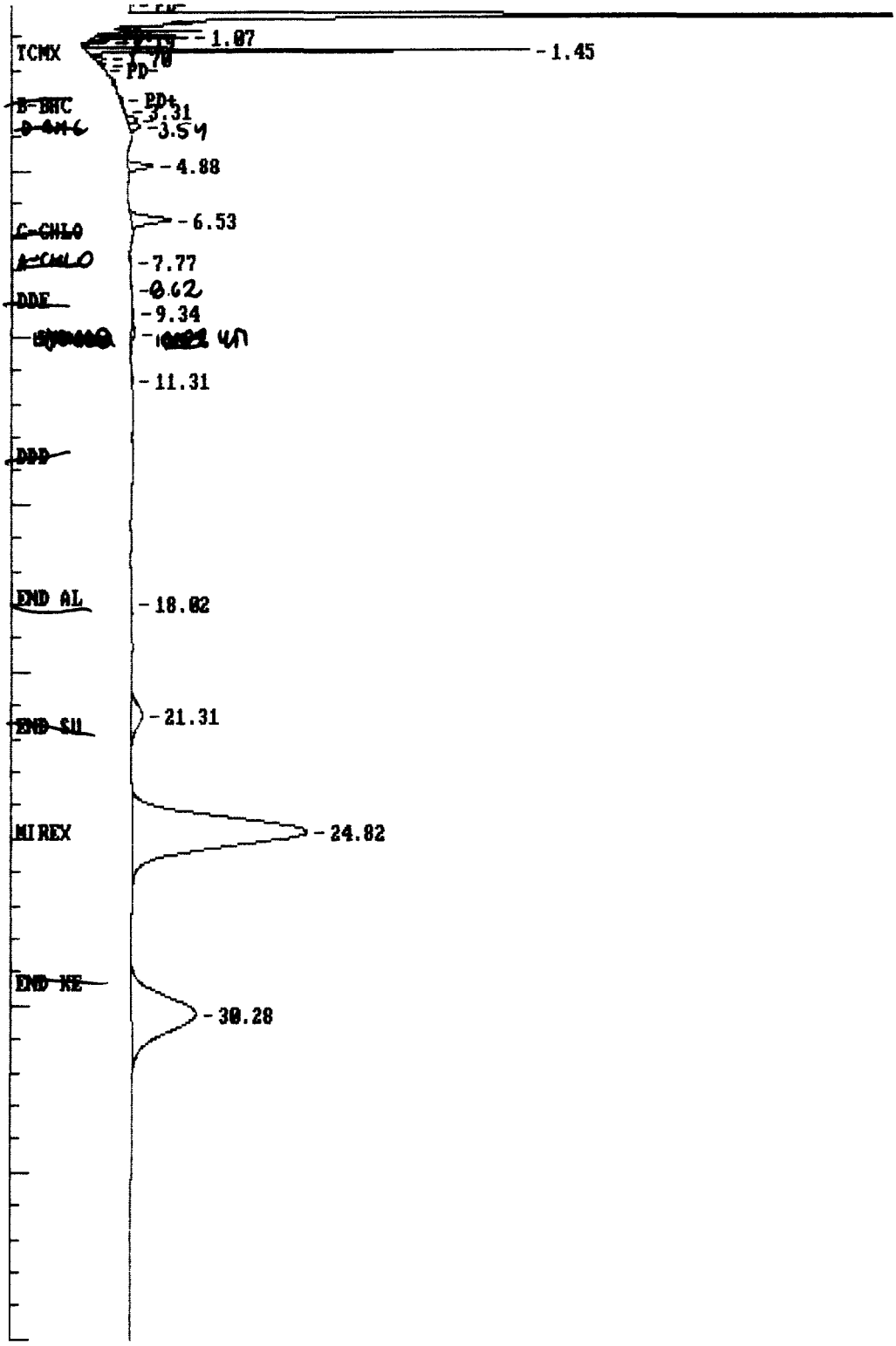
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	3.06	MIREX
DDD	13.55	MIREX

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC010.PTS Printed on 11-16-1990 at 14:54:33
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
SF 7465 MB Processed: 11-13-1990 12:18:54, segment 4, cycle 9
RAW DATA SAVED IN FILE U:1ALC09.PTS Second Channel Stored in U:2ALC09.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 12:19:04 Version 4.1 **********
* Sample Name: SF 7465 MB Data File: U:1ALC09 *
* Date: 11-13-1990 12:18:59 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 9 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *DKC
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/L~~ ML UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.95~~	~~A-BHC~~	~~0.0071~~	~~8.1605%~~	~~3943~~	~~916~~	~~4.3~~	~~2~~	~~16~~	~~16~~	~~.3561~~	~~1.8035E-06~~
~~5~~	~~2.24~~	~~LINDANE~~	~~0.0061~~	~~7.0304%~~	~~13890~~	~~924~~	~~15.0~~	~~1~~	~~16~~	~~16~~	~~-1.732~~	~~4.4112E-07~~
~~10~~	~~5.59~~	~~HEP EPOX~~	~~0.0043~~	~~4.9043%~~	~~14085~~	~~534~~	~~26.4~~	~~2~~	~~16~~	~~16~~	~~2.492~~	~~3.0345E-07~~
~~11~~	~~6.70~~	~~ENDO I~~	~~0.0076~~	~~8.7273%~~	~~16076~~	~~382~~	~~42.1~~	~~2~~	~~16~~	~~16~~	~~1.223~~	~~4.7313E-07~~
~~12~~	~~7.70~~	~~DIELDRIN~~	~~0.0097~~	~~11.1635%~~	~~12436~~	~~599~~	~~20.7~~	~~1~~	~~16~~	~~16~~	~~2.451~~	~~7.8231E-07~~
~~14~~	~~12.74~~	~~DDT~~	~~0.0523~~	~~60.0141%~~	~~223083~~	~~5872~~	~~38.0~~	~~2~~	~~16~~	~~16~~	~~.9467~~	~~2.3445E-07~~
16	23.78	MIREX	1.0000	0.0000%	3722077	55347	67.2	2	16	16	0	2.6867E-07

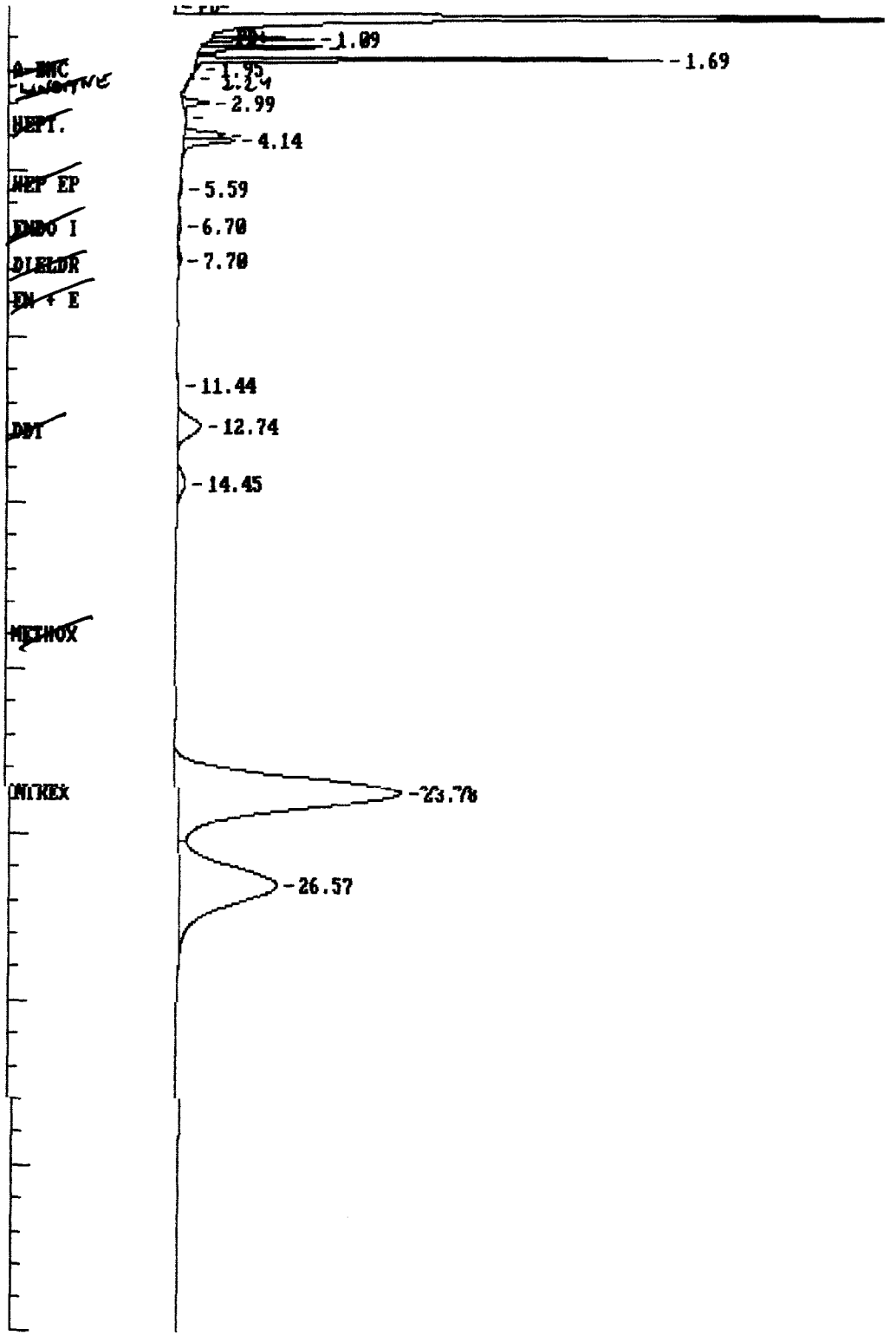
TOTAL AMOUNT = 0.0872

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEPT.	3.63	MIREX
ALDRIN	4.50	MIREX
EN + EN II	8.92	MIREX
METHOXYCHLOR	18.97	MIREX

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC09.ATB
Data File = U:1ALC09.PTS Printed on 11-13-1990 at 12:19:26
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-16-1990 16:11:38 Version 4.1 ********************
* Sample Name: SF 7465 MB                        Data File: U:1ALC09      *
* Date: 11-13-1990 12:18:59 Method: U:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  9    Operator DKC Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 — Ending retention time: 40.00
Area reject: 0 — One sample per 1.002 sec.
Amount injected: 1.00 — Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.69	TCMX	0.0427	43.9024%	571235	115750	4.9	2	16	16	.9188	7.4774E-08
~~4~~	~~2.24~~	~~B-BHC~~	~~0.0144~~	~~14.8217%~~	~~13890~~	~~924~~	~~15.0~~	~~1~~	~~16~~	~~16~~	~~-3.185~~	~~1.0382E-06~~
~~6~~	~~6.70~~	~~A-CHLOR~~	~~0.0009~~	~~0.9127%~~	~~16076~~	~~382~~	~~42.1~~	~~2~~	~~16~~	~~16~~	~~-2.847~~	~~5.5237E-08~~
~~12~~	~~7.70~~	~~DDE~~	~~0.0047~~	~~4.7983%~~	~~12436~~	~~599~~	~~20.7~~	~~1~~	~~16~~	~~16~~	~~-1.811~~	~~3.7538E-07~~
~~13~~	~~11.44~~	~~END SULFATE~~	~~0.0095~~	~~9.7260%~~	~~4970~~	~~164~~	~~30.3~~	~~1~~	~~16~~	~~16~~	~~-.4746~~	~~1.9040E-06~~
~~15~~	~~14.45~~	~~END KETONE~~	~~0.0251~~	~~25.8389%~~	~~81224~~	~~1885~~	~~43.1~~	~~2~~	~~16~~	~~16~~	~~-2.070~~	~~3.0950E-07~~
16	23.78	MIREX	1.0000	0.0000%	3722077	55347	67.2	2	16	16	0	2.6867E-07

TOTAL AMOUNT = 0.0973

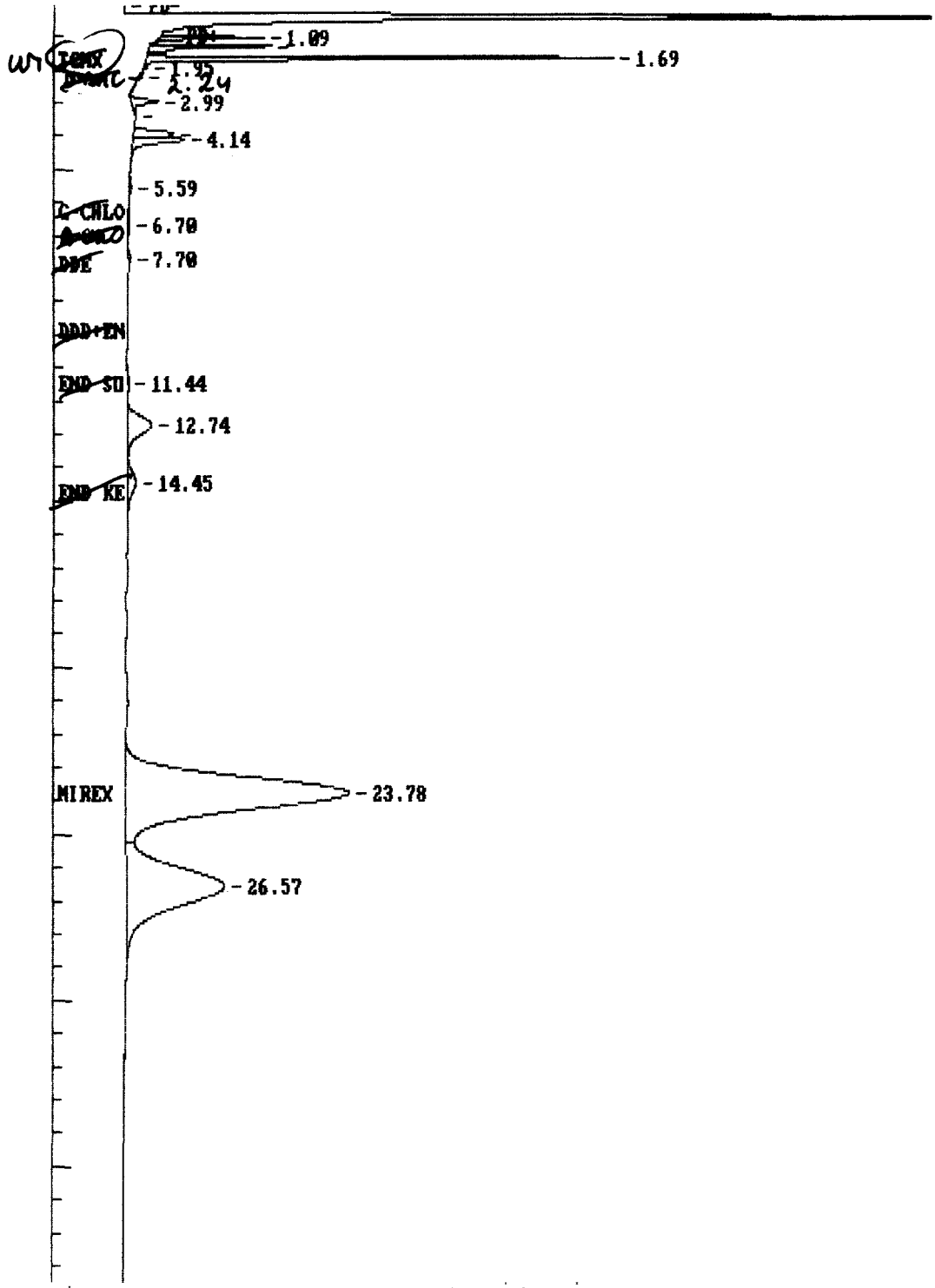
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	2.07	MIREX
G-CHLOR	6.24	MIREX
DDD+END ALD	9.86	MIREX

VM 11/19/90

SECONDARY COLUMN

Data File = U:1ALC09.PTS Printed on 11-16-1990 at 16:12:00
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PRIMARY COLUMN

INTERNAL STANDARD TABLE

```
******************** 11-16-1990 15:32:04 Version 4.1 **********************
* Sample Name: 91FH30S86 PEST MS  SF 7465        Data File: U:2ALC020      *
* Date: 11-13-1990 20:24:22 Method: U:2PESTA 11-16-1990 14:10:05  #  129   *
* Interface: 0   Cycle#:  20   Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  11   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~PRIM~~ QUANT  *  DKC 11/26/90
* Misc. Information: PRIMARY COLUMN                          ~~CONFIRMATORY CO~~ *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:        0                      One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.025000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
RT ~~6~~	~~2.15~~	~~A-BHC~~	~~0.0261~~	~~0.9816%~~	~~218830~~	~~43036~~	~~5.1~~	~~1~~	~~21~~	~~21~~	~~-2.503~~	~~1.1913E-07~~
8	2.79	LINDANE	0.0468	1.7628%	380977	55202	6.9	1	21	21	-.4384	1.2288E-07
9	3.49	HEPT	0.0348	1.3092%	325590	39736	8.2	1	21	21	-.1952	1.0679E-07
11	4.23	ALDRIN	0.0680	2.5592%	511790	53882	9.5	1	21	21	0	1.3281E-07
13	7.78	ENDO I	0.2763	10.4026%	2030587	79717	25.5	2	21	21	-2.338	1.3606E-07
14	9.72	DIELDRIN	0.1057	3.9818%	797324	32620	24.4	1	21	21	0	1.3263E-07
15	11.77	ENDRIN	0.2078	7.8252%	983059	35376	27.8	3	21	21	0	2.1141E-07
DL ~~17~~	~~14.18~~	~~ENDOII~~	~~0.0047~~	~~0.1767%~~	~~6026~~	~~216~~	~~27.9~~	~~1~~	~~21~~	~~21~~	~~.3779~~	~~7.7895E-07~~
18	16.98	DDT	0.2737	10.3039%	1897228	46094	41.2	1	21	21	0	1.4424E-07
21	25.78	MIREX	1.0000	0.0000%	2607777	42783	61.0	1	21	21	0	3.8347E-07
22	31.53	METHOXYCHLOR	1.6120	60.6971%	6996314	75657	92.5	3	21	21	-2.675	2.3041E-07

TOTAL AMOUNT = 2.6558

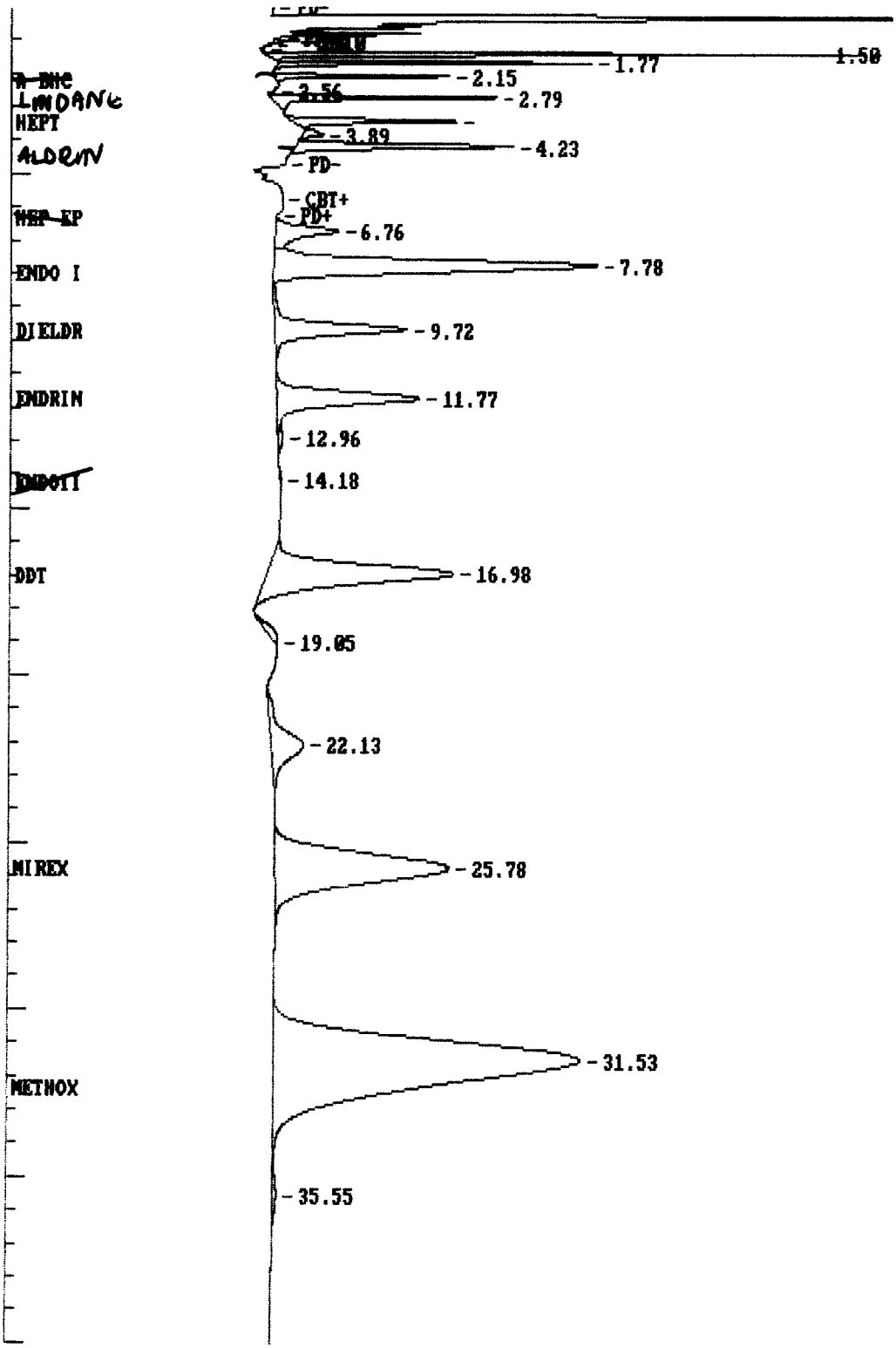
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEP EPOX	6.32	MIREX

UM 11/19/90

PRIMARY COLUMN

Data File = U:2ALC020.PTS Printed on 11-16-1990 at 15:33:00
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



CM
11/19/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 15:01:14 Version 4.1 **********

* Sample Name: 91FH30S86 PEST MS SF 7465 Data File: U:2ALC020 *
* Date: 11-13-1990 20:24:22 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 20 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT *DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ *11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.025000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~ug/ml~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.50	TCMX	0.0621	4.5960%	606207	147870	4.1	2	21	21	-.3728	1.0249E-07
~~7~~	~~3.[illegible]~~	~~BHC~~	~~0.0210~~	~~1.5551%~~	~~159339~~	~~9432~~	~~16.9~~	~~2~~	~~21~~	~~21~~	~~4.647~~	~~1.3194E-07~~
~~12~~	~~6.[illegible] B CHLORDANE~~		~~0.0645~~	~~4.7680%~~	~~560339~~	~~19644~~	~~28.5~~	~~2~~	~~21~~	~~21~~	~~-4.122~~	~~1.1503E-07~~
~~13~~	~~7.78~~	~~A CHLORDANE~~	~~0.2567~~	~~18.9867%~~	~~2242105~~	~~82740~~	~~27.1~~	~~2~~	~~21~~	~~21~~	~~1.104~~	~~1.1448E-07~~
~~17~~	~~14.18~~	~~DDD~~	~~-0.0027~~	~~-0.1963%~~	~~6026~~	~~216~~	~~27.9~~	~~1~~	~~21~~	~~21~~	~~.7416~~	~~-4.4032E-07~~
~~19~~	~~19.05~~	~~END ALDEHYDE~~	~~0.0159~~	~~1.1737%~~	~~60571~~	~~532~~	~~113.9~~	~~1~~	~~21~~	~~21~~	~~3.166~~	~~2.6196E-07~~
~~20~~	~~22.13~~	~~END SULFATE~~	~~0.0591~~	~~4.3751%~~	~~480348~~	~~7829~~	~~61.4~~	~~1~~	~~21~~	~~21~~	~~-1.583~~	~~1.2313E-07~~
21	25.78	MIREX	1.0000	0.0000%	2607777	42783	61.0	1	21	21	0	3.8347E-07
~~22~~	~~31.53~~	~~END KETONE~~	~~0.0752~~	~~64.7417%~~	~~6996314~~	~~75657~~	~~92.5~~	~~3~~	~~21~~	~~21~~	~~3.574~~	~~1.2510E-07~~

TOTAL AMOUNT = 1.3518

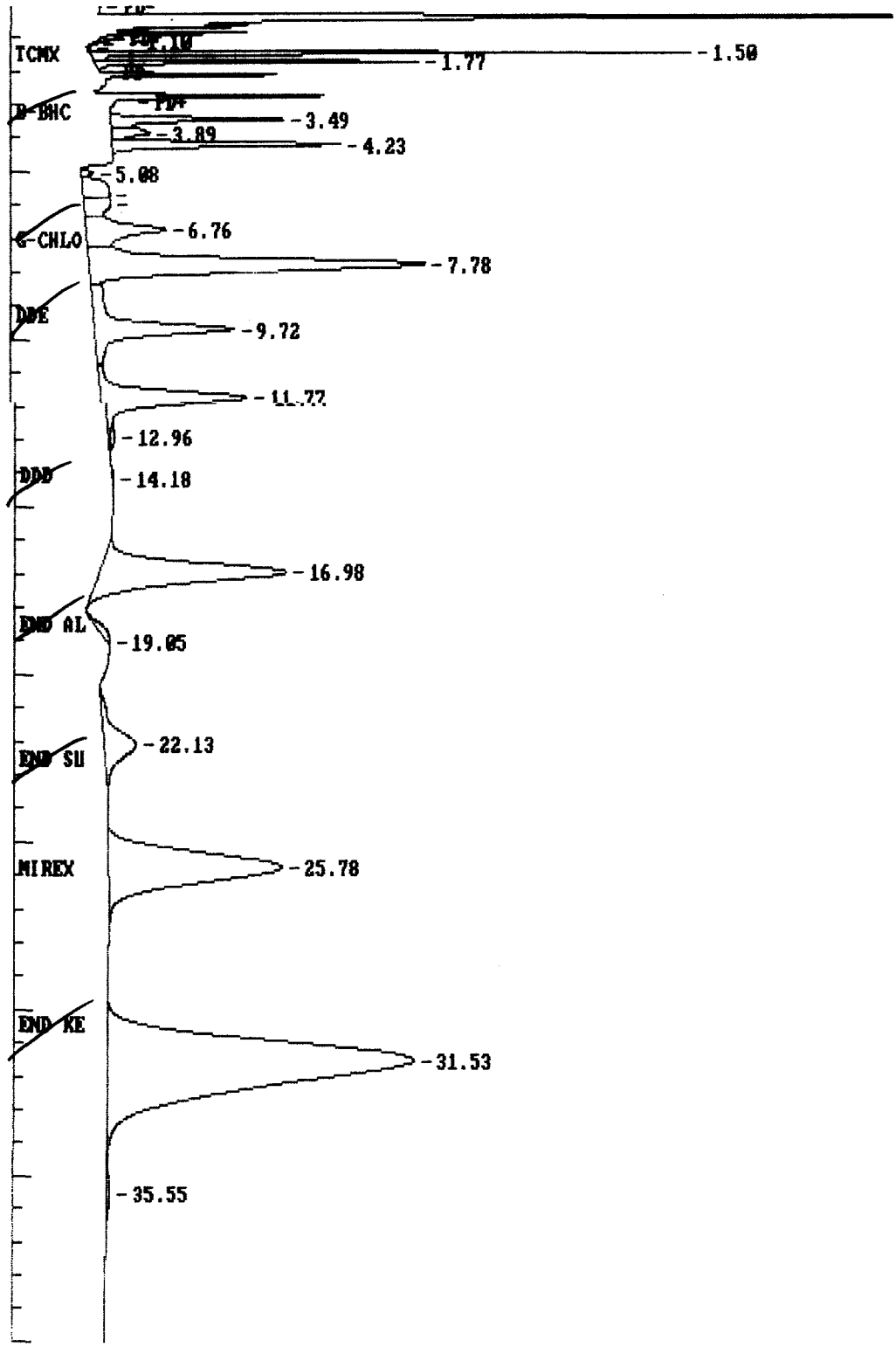
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	3.18	MIREX
DDE	9.23	MIREX

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC020.PTS Printed on 11-16-1990 at 15:01:36
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
91FH30S86 Processed: 11-13-1990 19:40:12, segment 14, cycle 19
RAW DATA SAVED IN FILE U:1ALC019.PTS Second Channel Stored in U:2ALC019.PTS

****** INTERNAL STANDARD TABLE ******

********** 11-13-1990 19:40:22 Version 4.1 **********
* Sample Name: 91FH30S86 PEST MS SF 7465 Data File: U:1ALC019 *
* Date: 11-13-1990 19:40:17 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 19 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.025000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
NC ~~5~~	~~1.87~~	~~A-BHC~~	~~0.0087~~	~~0.7590%~~	~~23659~~	~~3893~~	~~6.1~~	~~4~~	~~23~~	~~23~~	~~.1464~~	~~3.6920E-07~~
7	2.19	LINDANE	0.0545	4.7372%	515959	73946	7.0	2	23	23	.1464	1.0566E-07
10	3.49	HEPT.	0.0449	3.8990%	485257	45960	10.6	2	23	23	.1464	9.2468E-08
13	4.31	ALDRIN	0.0901	7.8308%	760318	57796	13.2	2	23	23	-.2402	1.1853E-07
15	6.51	ENDO I	0.0934	8.1135%	752644	41762	18.0	1	23	23	.1464	1.2406E-07
16	7.58	DIELDRIN	0.0950	8.2575%	762797	37873	20.1	1	23	23	.1464	1.2458E-07
17	8.45	EN + EN II	0.1368	11.8912%	956017	43933	21.8	1	23	23	-1.220	1.4314E-07
20	12.32	DDT	0.2935	25.5052%	2167582	62625	34.6	1	23	23	-.1242	1.3541E-07
22	18.20	METHOXYCHLOR	0.3338	29.0066%	1711477	31583	54.2	2	23	23	.0546	1.9505E-07
23	22.81	MIREX	1.0000	0.0000%	3374457	51780	65.2	2	23	23	0	2.9634E-07

TOTAL AMOUNT = 1.1508

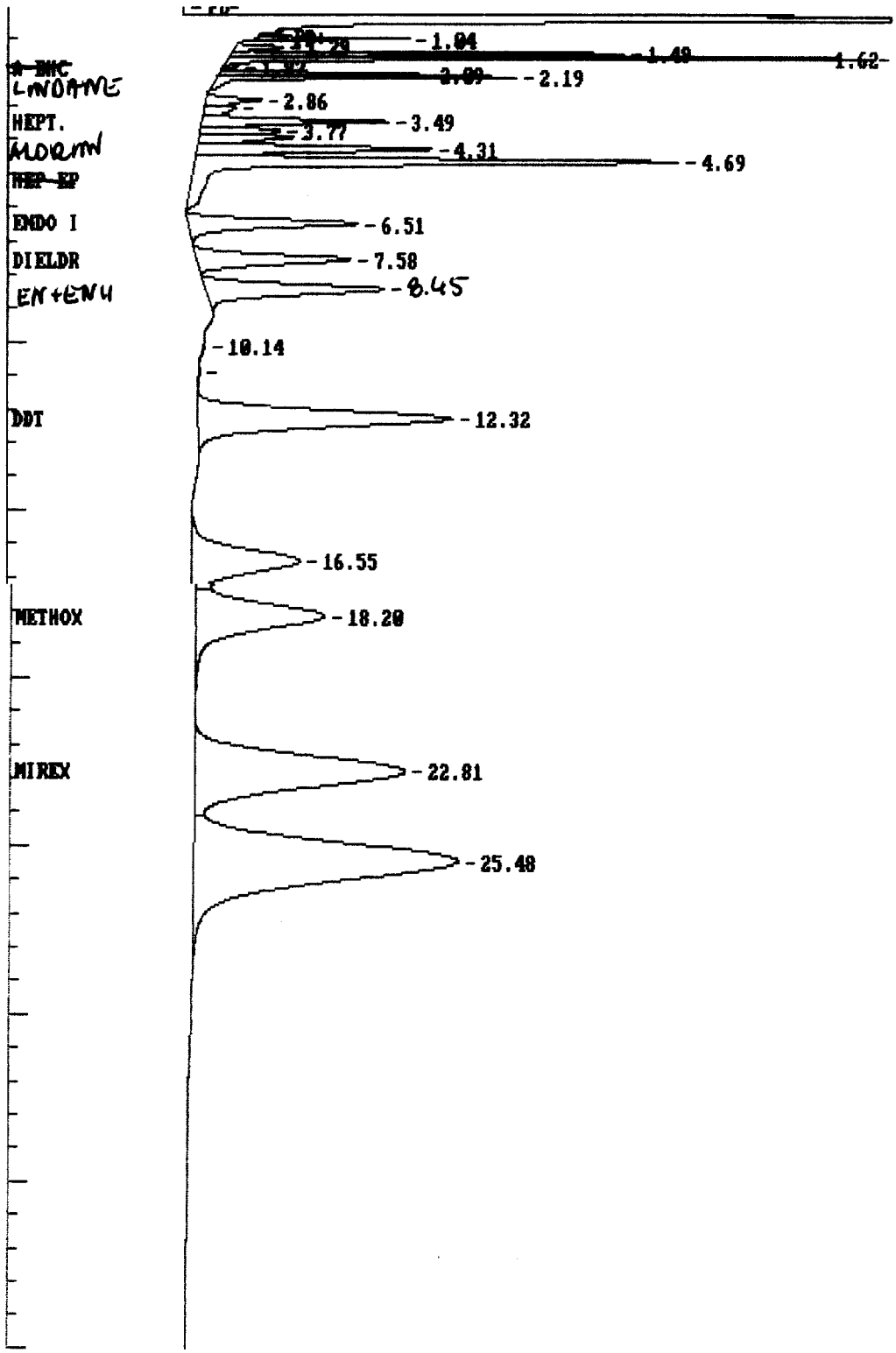
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEP EPOX	5.24	MIREX

WM 11/14/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC019.ATB
Data File = U:1ALC019.PTS Printed on 11-13-1990 at 19:40:46
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 16:19:11 Version 4.1 **********

* Sample Name: 91FH30586 PEST MS SF 7465 Data File: U:1ALC019 *
* Date: 11-13-1990 19:40:17 Method: U:1PESTB 11-07-1990 10:19:54 # 170 *
* Interface: 0 Cycle#: 19 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: CONFIRMATORY COLUMN LPT1: * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.025000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.62	TCMX	0.0652	20.6933%	810549	158316	5.1	3	23	23	1.037	8.0465E-08
~~7~~	~~2.19~~	~~D-BHC~~	~~0.0649~~	~~20.5935%~~	~~515959~~	~~73946~~	~~7.0~~	~~2~~	~~23~~	~~23~~	~~1.333~~	~~1.2580E-07~~
~~15~~	~~5.51~~	~~G-CHLOR~~	~~0.0704~~	~~22.3437%~~	~~752644~~	~~41762~~	~~18.0~~	~~1~~	~~23~~	~~23~~	~~1.500~~	~~9.3567E-08~~
~~16~~	~~7.60~~	~~DDD~~	~~0.1054~~	~~33.4324%~~	~~762797~~	~~37873~~	~~20.1~~	~~1~~	~~23~~	~~23~~	~~.8028~~	~~1.3814E-07~~
~~19~~	~~10.94~~	~~END SULFATE~~	~~0.0093~~	~~2.9372%~~	~~4687~~	~~211~~	~~22.3~~	~~1~~	~~23~~	~~23~~	~~-1.095~~	~~1.9749E-06~~
23	22.81	MIREX	1.0000	0.0000%	3374457	51780	65.2	2	23	23	0	2.9634E-07

TOTAL AMOUNT = 0.3152

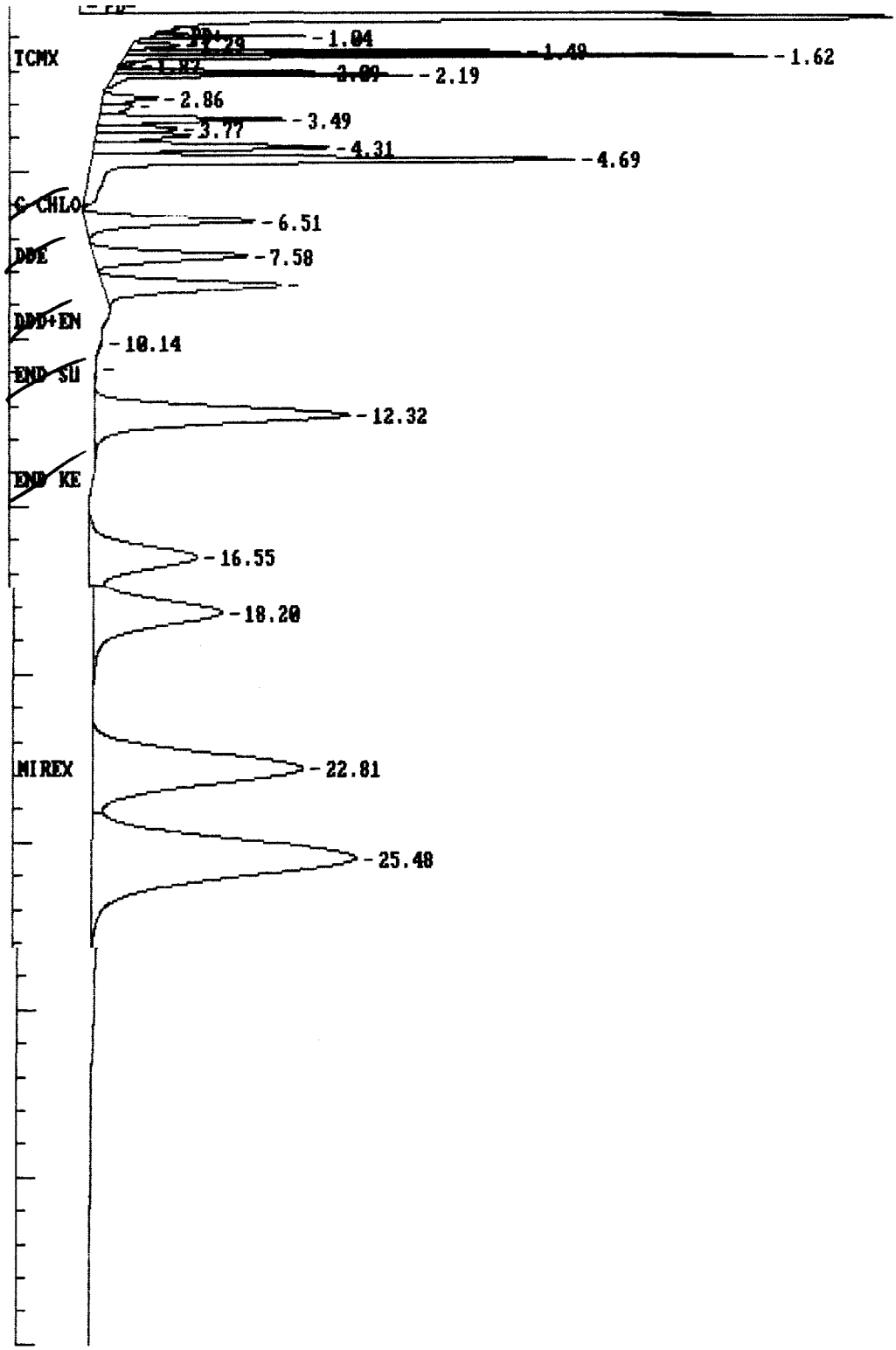
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	1.98	MIREX
G-CHLOR	5.98	MIREX
DDD+END ALD	9.46	MIREX
END KETONE	14.15	MIREX

UM
11/19/90

SECONDARY COLUMN

Data File = U:1ALC019.PTS Printed on 11-16-1990 at 16:19:32
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



4/19/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2PESTA1

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 15:36:41 Version 4.1 **********

* Sample Name: 91FH30S86 PEST MSD SF 7465 Data File: U:2ALC021 *
* Date: 11-13-1990 21:08:29 Method: U:2PESTA1 11-16-1990 14:21:09 # 131 *
* Interface: 0 Cycle#: 21 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY GC~~ * 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.030000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~5~~	~~2.19~~	~~A-BHC~~	~~0.0034~~	~~0.1715%~~	~~19180~~	~~3331~~	~~5.8~~	~~1~~	~~22~~	~~22~~	~~2.614~~	~~1.7667E-07~~
7	2.84	LINDANE	0.0436	2.2049%	358659	56717	6.3	1	22	22	.1803	1.2147E-07
9	3.54	HEPT	0.0358	1.8143%	339294	42059	8.1	1	22	22	.2916	1.0565E-07
11	4.29	ALDRIN	0.0735	3.7199%	563934	58678	9.6	1	22	22	0	1.3033E-07
15	7.90	ENDO I	0.2734	13.8390%	2040275	77528	26.3	2	22	22	-2.120	1.3402E-07
16	9.85	DIELDRIN	0.1111	5.6221%	850957	35034	24.3	1	22	22	0	1.3054E-07
17	11.92	ENDRIN	0.2094	10.6002%	1006420	37030	27.2	3	22	22	0	2.0811E-07
~~19~~	~~14.76~~	~~ENDOII~~	~~0.0100~~	~~0.5045%~~	~~51088~~	~~777~~	~~51.1~~	~~2~~	~~22~~	~~22~~	~~2.415~~	~~1.9512E-07~~
20	17.22	DDT	0.2460	12.4480%	1723000	45673	37.7	1	22	22	0	1.4275E-07
22	26.15	MIREX	1.0000	0.0000%	2634529	42951	61.3	1	22	22	0	3.7957E-07
23	32.03	METHOXYCHLOR	0.9697	49.0755%	4264178	39930	106.8	1	22	22	-2.434	2.2740E-07

TOTAL AMOUNT = 1.9758

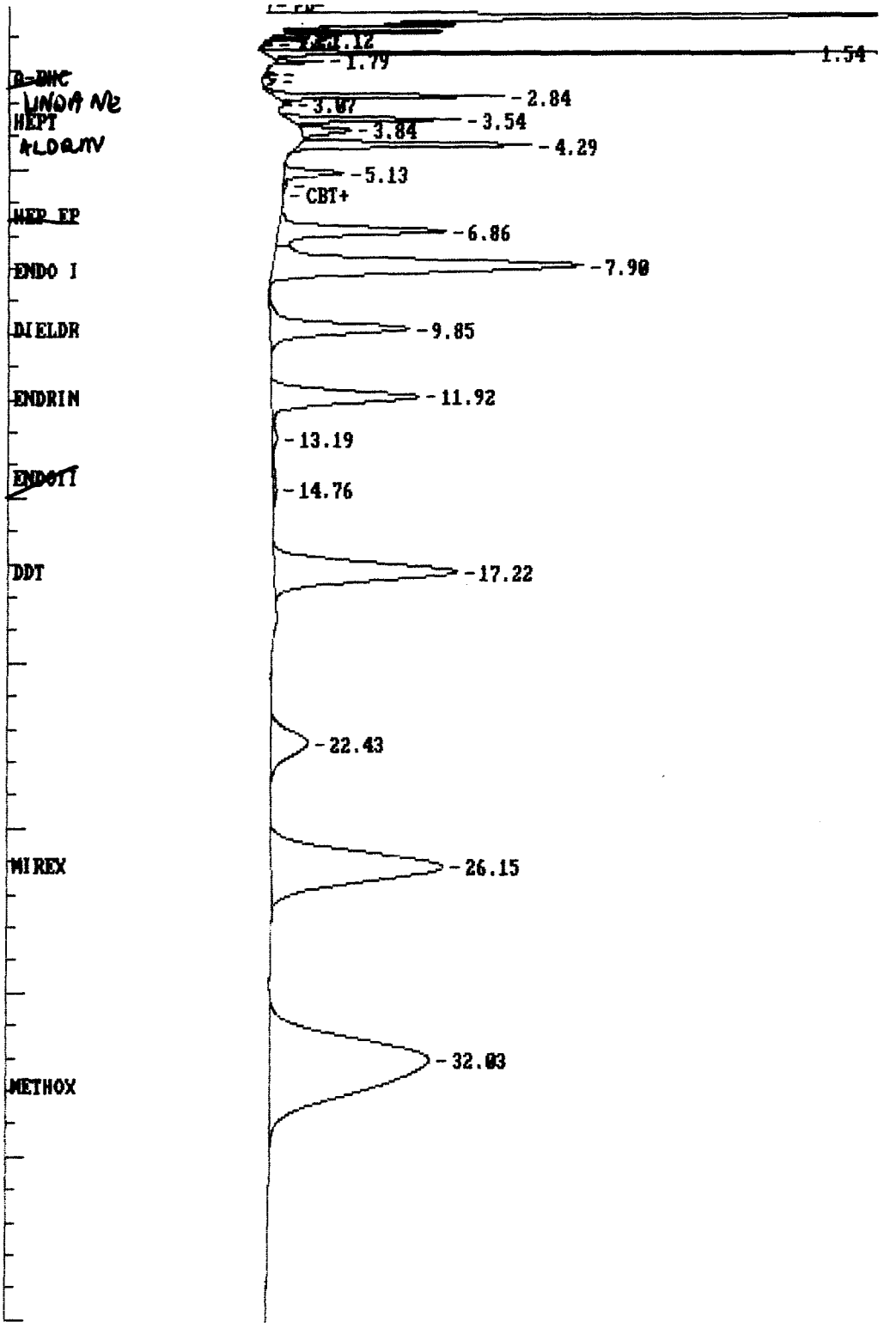
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEP EPOX	6.40	MIREX

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC021.PTS Printed on 11-16-1990 at 15:37:27
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2PESTB1

INTERNAL STANDARD TABLE

********** 11-19-1990 09:49:34 Version 4.1 **********
* Sample Name: 91FH30S86 PEST MSD SF 7465 Data File: U:2ALC021 *
* Date: 11-13-1990 21:08:29 Method: U:2PESTB1 11-19-1990 09:48:13 # 215 *
* Interface: 0 Cycle#: 21 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.030000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L ug	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.54	TCMX	0.0700	6.2189%	693499	158866	4.4	2	19	19	-.2421	1.0096E-07
~~4~~	~~3.54~~	~~B-BHC~~	~~0.0776~~	~~6.8920%~~	~~401738~~	~~45284~~	~~8.9~~	~~2~~	~~19~~	~~19~~	~~6.951~~	~~1.9314E-07~~
~~7~~	~~3.84~~	~~D-BHC~~	~~0.0374~~	~~3.3182%~~	~~297015~~	~~17989~~	~~16.5~~	~~2~~	~~19~~	~~19~~	~~-.2421~~	~~1.2578E-07~~
~~12~~	~~7.90~~	~~A-CHLORDANE~~	~~0.2296~~	~~20.3938%~~	~~2040275~~	~~77528~~	~~26.3~~	~~2~~	~~19~~	~~19~~	~~-1.269~~	~~1.1253E-07~~
~~13~~	~~9.85~~	~~DDE~~	~~0.1248~~	~~11.0886%~~	~~850957~~	~~35034~~	~~24.3~~	~~1~~	~~19~~	~~19~~	~~2.948~~	~~1.4670E-07~~
~~16~~	~~14.76~~	~~DDD~~	~~0.0047~~	~~0.4213%~~	~~51088~~	~~999~~	~~51.1~~	~~2~~	~~19~~	~~19~~	~~1.106~~	~~9.2834E-08~~
~~18~~	~~22.43~~	~~END SULFATE~~	~~0.0603~~	~~5.3546%~~	~~494907~~	~~9286~~	~~53.3~~	~~1~~	~~19~~	~~19~~	~~-3.750~~	~~1.2181E-07~~
19	26.15	MIREX	1.0000	0.0000%	2634529	42951	61.3	1	19	19	0	3.7957E-07
~~20~~	~~32.03~~	~~END KETONE~~	~~0.5214~~	~~46.3127%~~	~~4264178~~	~~39930~~	~~106.8~~	~~1~~	~~19~~	~~19~~	~~1.482~~	~~1.2227E-07~~

TOTAL AMOUNT = 1.1258

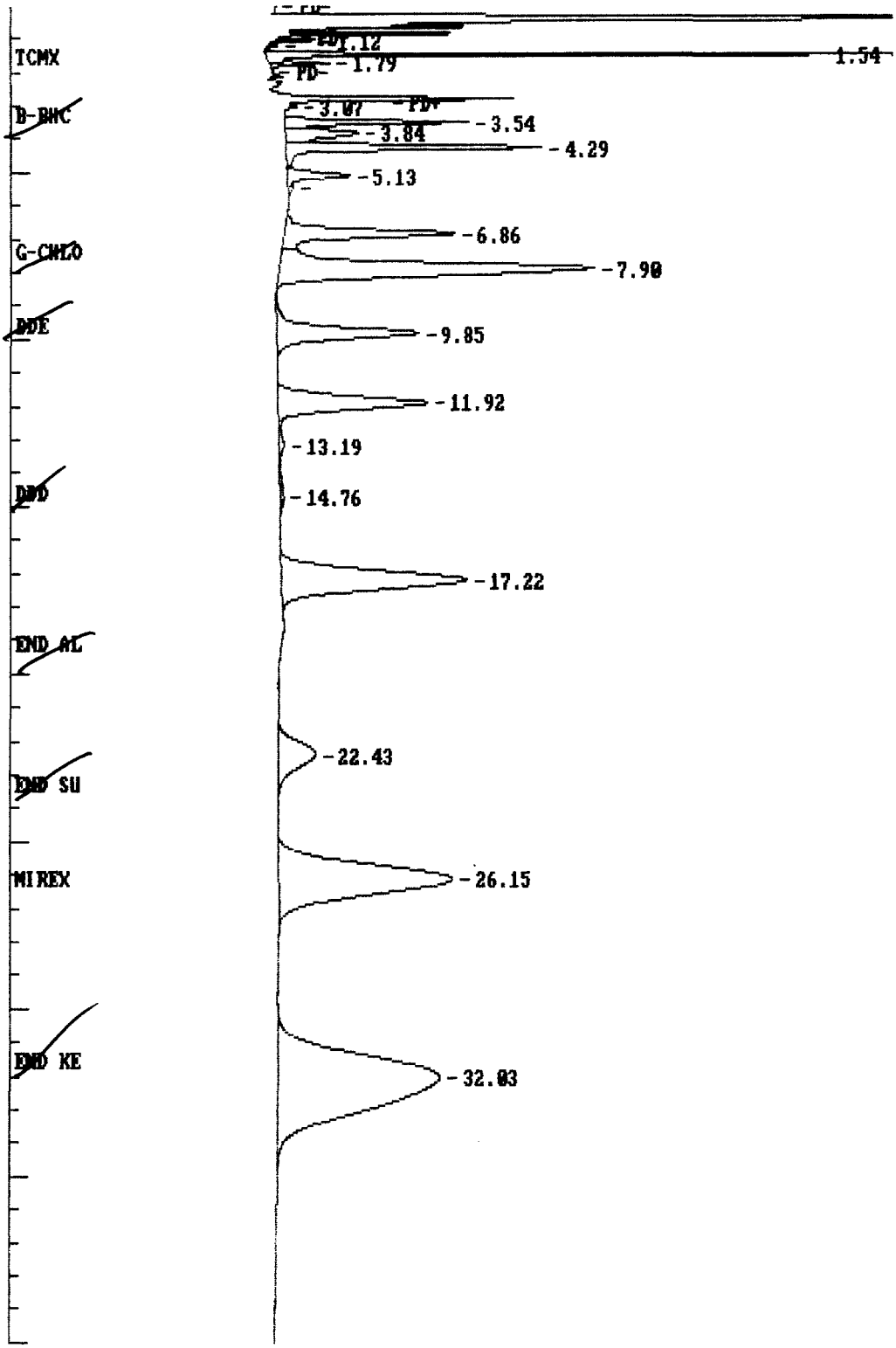
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
G-CHLORDANE	7.39	MIREX
END ALDEHYDE	19.14	MIREX

WT
11/19/90

PRIMARY COLUMN

Data File = U:2ALC021.PTS Printed on 11-19-1990 at 09:50:22
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
91FH30S86 Processed: 11-13-1990 20:24:19, segment 15, cycle 20
RAW DATA SAVED IN FILE U:1ALCO20.PTS Second Channel Stored in U:2ALCO20.PTS

****** INTERNAL STANDARD TABLE ******

********** 11-13-1990 20:24:29 Version 4.1 **********
* Sample Name: 91FH30S86 PEST MSD SF 7465 Data File: U:1ALCO20 *
* Date: 11-13-1990 20:24:24 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 20 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.030000

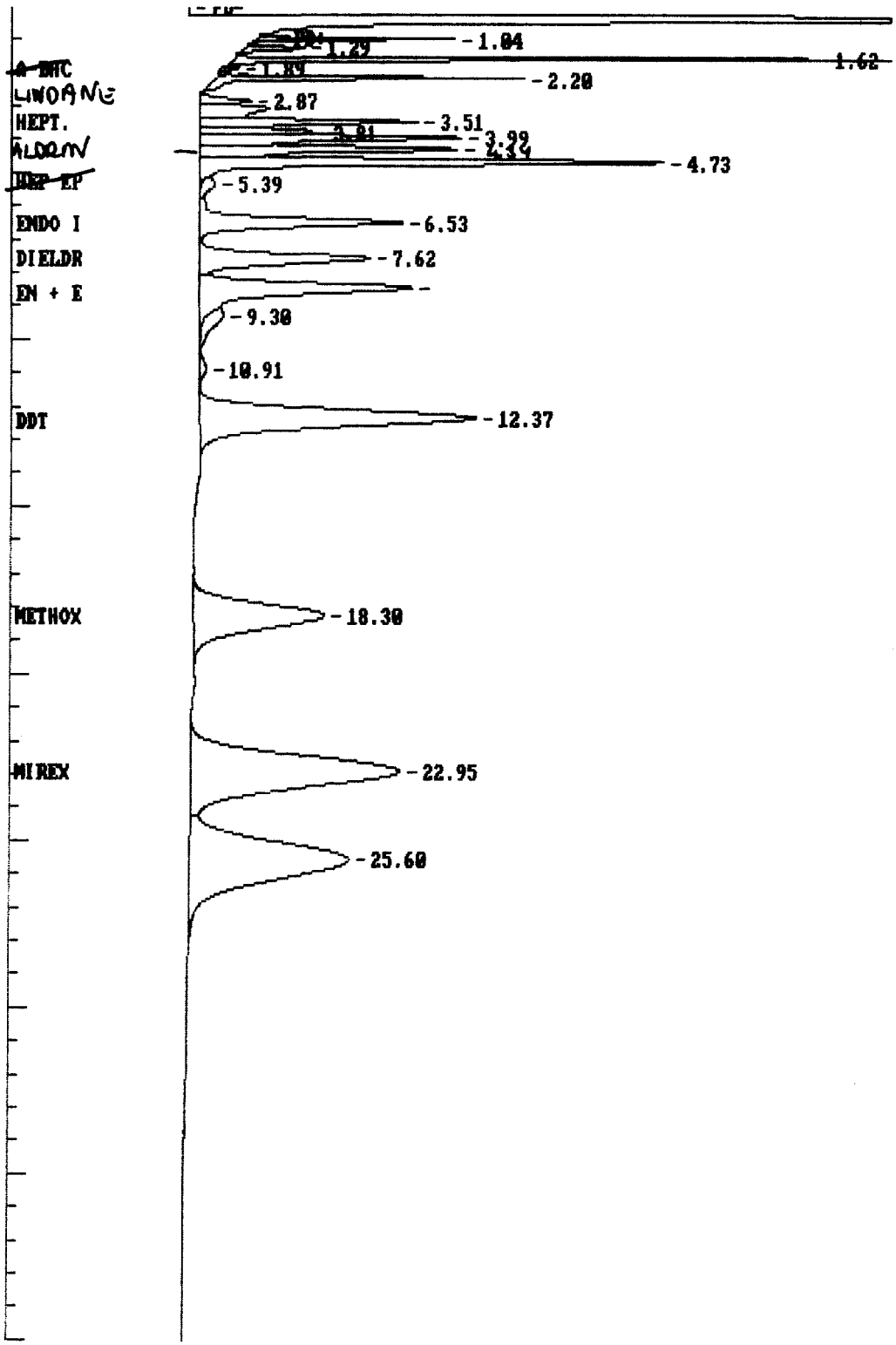
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.89~~	~~A-BHC~~	~~0.0095~~	~~0.7383%~~	~~32286~~	~~4620~~	~~7.0~~	~~4~~	~~22~~	~~22~~	~~.4522~~	~~2.9280E-07~~
6	2.20	LINDANE	0.0542	4.2359%	517036	76850	6.7	2	22	22	.3233	1.0489E-07
9	3.51	HEPT.	0.0573	4.4778%	623823	53809	11.6	2	22	22	0	9.1901E-08
12	4.34	ALDRIN	0.0970	7.5782%	830321	63708	13.0	2	22	22	0	1.1685E-07
~~14~~	~~5.39~~	~~HEP EPOX~~	~~0.0126~~	~~0.9808%~~	~~93227~~	~~3727~~	~~25.0~~	~~4~~	~~22~~	~~22~~	~~2.417~~	~~1.3470E-07~~
15	6.53	ENDO I	0.1177	9.1949%	969055	50103	19.3	2	22	22	-.1813	1.2148E-07
16	7.62	DIELDRIN	0.1120	8.7456%	918707	42083	21.8	2	22	22	0	1.2188E-07
17	8.50	EN + EN II	0.1807	14.1125%	1354391	52530	25.8	3	22	22	-1.213	1.3341E-07
20	12.37	DDT	0.3208	25.0559%	2407227	68034	35.4	1	22	22	-.3021	1.3327E-07
21	18.30	METHOXYCHLOR	0.3185	24.8802%	1644312	32127	51.2	1	22	22	0	1.9373E-07
22	22.95	MIREX	1.0000	0.0000%	3382734	51553	65.6	2	22	22	0	2.9562E-07

TOTAL AMOUNT = 1.2803

KM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALCO20.ATB
Data File = U:1ALCO20.PTS Printed on 11-13-1990 at 20:24:53
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

SECONDARY COLUMN

```
******   INTERNAL STANDARD TABLE   ******
******************** 11-16-1990 16:20:31 Version 4.1 **********************
* Sample Name: 91FH30S86 PEST MSD SF 7465          Data File: U:1ALCO20     *
* Date: 11-13-1990 20:24:24 Method: U:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  20   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *  DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *   *
*************************************************************************
Starting Delay:    0.00                          Ending retention time:    40.00
Area reject:        0                            One sample per   1.002 sec.
Amount injected:        1.00                     Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.030000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~ug/ml~~ ng/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.62	TCMX	0.0648	16.7130%	811086	165498	4.9	3	22	22	.4490	7.9878E-08
~~5~~	~~2.02~~	~~D-BHC~~	~~0.0003~~	~~-0.0895%~~	~~18347~~	~~3071~~	~~6.0~~	~~4~~	~~22~~	~~22~~	~~1.273~~	~~-1.8905E-08~~
~~6~~	~~2.20~~	~~D-BHC~~	~~0.0646~~	~~16.6573%~~	~~517036~~	~~76850~~	~~6.7~~	~~2~~	~~22~~	~~22~~	~~-1.159~~	~~1.2489E-07~~
~~15~~	~~6.53~~	~~A-CHLOR~~	~~0.0902~~	~~23.2565%~~	~~969055~~	~~50103~~	~~19.3~~	~~2~~	~~22~~	~~22~~	~~-1.823~~	~~9.3033E-08~~
~~16~~	~~7.62~~	~~DDE~~	~~0.1254~~	~~32.3420%~~	~~918707~~	~~42083~~	~~21.8~~	~~2~~	~~22~~	~~22~~	~~.6574~~	~~1.3647E-07~~
~~18~~	~~9.30~~	~~DDD+END ALD~~	~~0.0273~~	~~7.0384%~~	~~193323~~	~~4415~~	~~43.8~~	~~4~~	~~22~~	~~22~~	~~-2.197~~	~~1.4113E-07~~
~~19~~	~~10.91~~	~~END SULFATE~~	~~0.0158~~	~~4.0822%~~	~~51990~~	~~1581~~	~~32.9~~	~~2~~	~~22~~	~~22~~	~~-1.671~~	~~3.0438E-07~~
22	22.95	MIREX	1.0000	0.0000%	3382734	51553	65.6	2	22	22	0	2.9562E-07

TOTAL AMOUNT = 0.3877

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
G-CHLOR	6.02	MIREX
END KETONE	14.23	MIREX

KM 11/19/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2_1242A

```
****** INTERNAL STANDARD TABLE ******
******************** 11-16-1990 15:50:22 Version 4.1 **********************
* Sample Name: 91FH30S86 PCB MS SF 7465          Data File: U:2ALC022      *
* Date: 11-13-1990 21:52:38 Method: U:2_1242A 11-16-1990 15:49:38  #  197 *
* Interface: 0   Cycle#:  22   Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~PRIM~~ QUANT  *
* Misc. Information: PRIMARY COLUMN                ~~CONF 1FM2TSBX TO~~   *
*************************************************************************
Starting Delay:    0.00                          Ending retention time:    40.00
Area reject:        0                            One sample per   1.002 sec.
Amount injected:        1.00                     Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.025000
```

DKC 11/26/90

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L ug	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.55	TCMX	0.0587	0.3869%	605720	149737	4.0	1	29	29	.2143	9.6937E-08
6	2.09	1242-1	2.5551	16.8357%	452541	65089	7.0	1	29	29	-.1052	5.6460E-06
8	2.69	1242-2	2.6040	17.1580%	846013	109533	7.7	2	29	29	0	3.0779E-06
11	3.51	1242-3	2.7259	17.9617%	1556097	177812	8.8	2	29	29	0	1.7518E-06
12	3.84	1242-4	3.1987	21.0765%	824144	73799	11.2	2	29	29	0	3.8812E-06
18	6.61	1242-5	4.0341	26.5812%	1553387	56050	27.7	2	29	29	1.756	2.5970E-06
29	26.49	MIREX	1.0000	0.0000%	2734552	44259	61.8	1	29	29	0	3.6569E-07

TOTAL AMOUNT = 15.1764

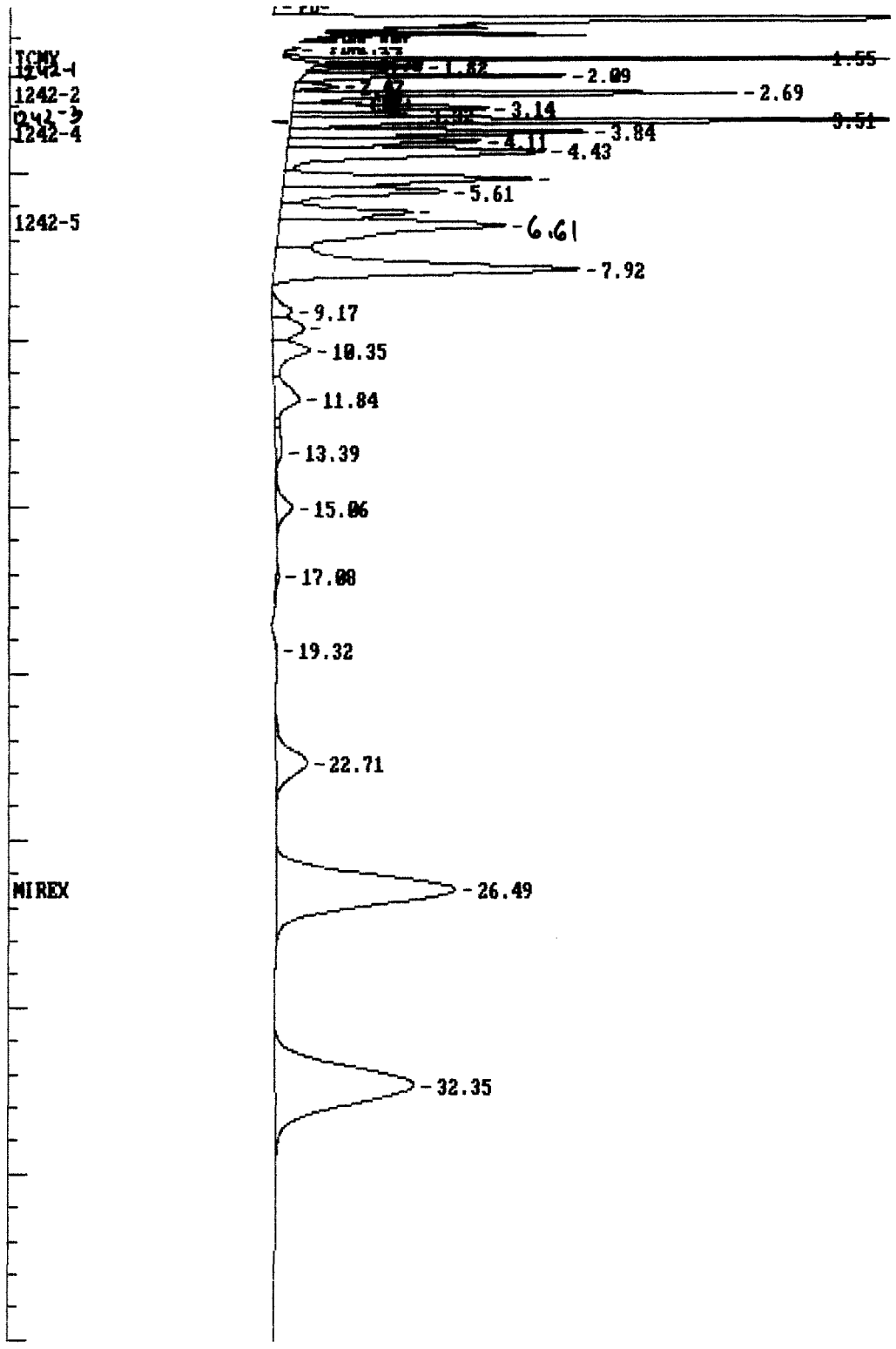
AV.= ~~3.2236~~ 3.0236
(N=5)

DKC
11/21/90

RM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC022.PTS Printed on 11-16-1990 at 15:51:01
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
91FH30S86 Processed: 11-13-1990 21:08:26, segment 1, cycle 21
RAW DATA SAVED IN FILE U:1ALC021.PTS Second Channel Stored in U:2ALC021.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 21:08:36 Version 4.1 **********
* Sample Name: 91FH30S86 PCB MS SF 7465 Data File: U:1ALC021 *
* Date: 11-13-1990 21:08:31 Method: U:1PCB1242 11-07-1990 10:46:27 # 182*
* Interface: 0 Cycle#: 21 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.025000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.64	TCMX	0.0737	0.6089%	941565	164667	5.7	2	22	22	2.028	7.8250E-08
5	1.90	1242-1	2.1871	18.0759%	545845	83501	6.5	3	22	22	.1453	4.0069E-06
7	2.39	1242-2	2.5360	20.9589%	1022125	124955	8.2	2	22	22	.1453	2.4811E-06
8	2.64	1242-3	2.1597	17.8491%	591703	70338	8.4	2	22	22	.1453	3.6500E-06
9	3.07	1242-4	2.7714	22.9048%	2260158	200279	11.3	2	22	22	.1453	1.2262E-06
14	5.39	1242-5	2.3718	19.6024%	1494781	73492	20.3	2	22	22	.4563	1.5868E-06
22	22.98	MIREX	1.0000	0.0000%	3492765	53023	65.9	2	22	22	0	2.8631E-07

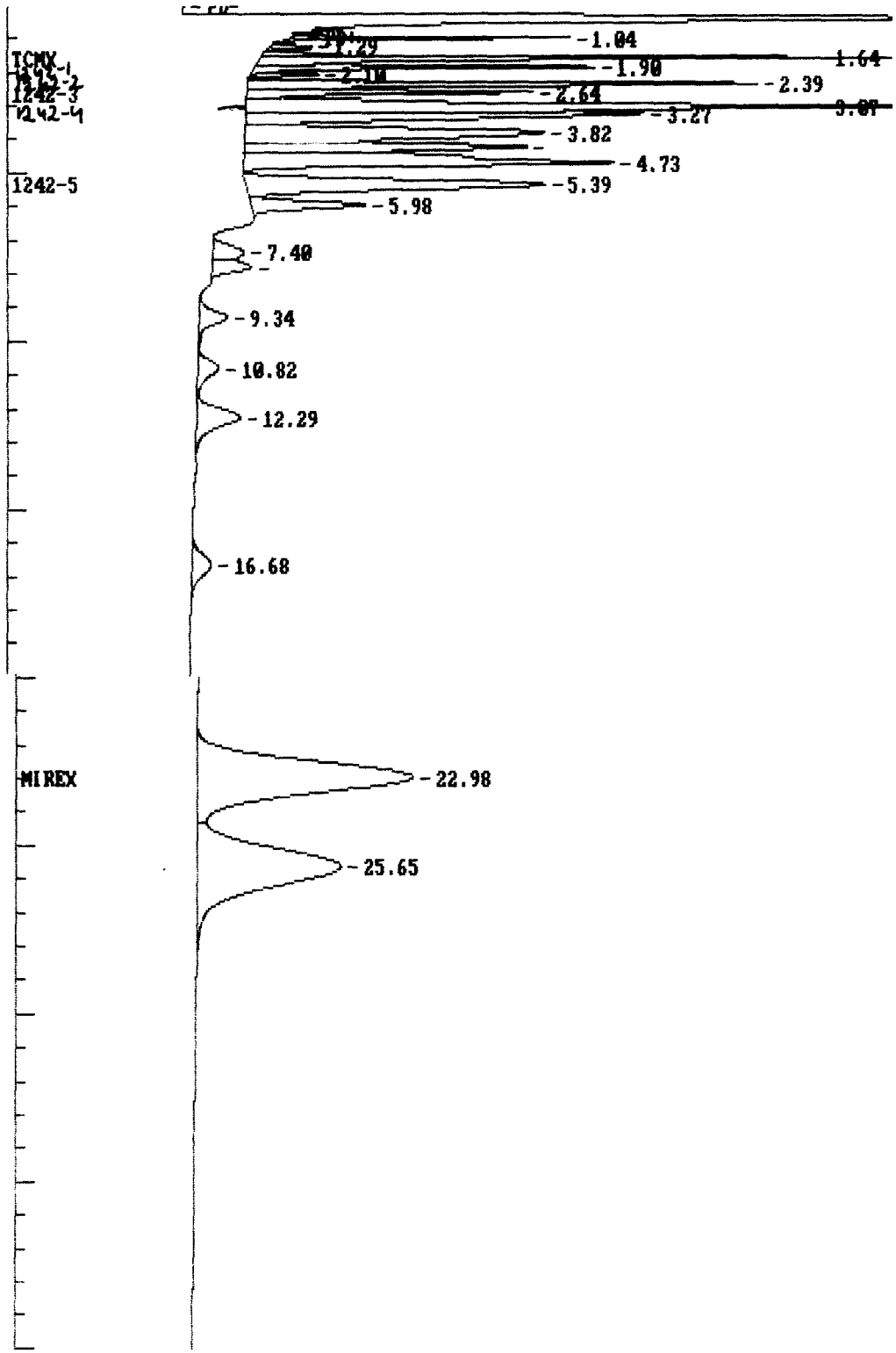
TOTAL AMOUNT = 12.0998

AV: 2.4052
(n=5)

KM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALCO21.ATB
Data File = U:1ALCO21.PTS Printed on 11-13-1990 at 21:08:55
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

PRIMARY COLUMN

NEW TIMED EVENTS FROM U:2_1242A

INTERNAL STANDARD TABLE

********** 11-16-1990 15:53:32 Version 4.1 **********

* Sample Name: 91FH30S86 PCB MSD SF 7465 Data File: U:2ALC023 *
* Date: 11-13-1990 22:36:42 Method: U:2_1242A 11-16-1990 15:49:38 # 197 *
* Interface: 0 Cycle#: 23 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT * DKC 11/26/90
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.025000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.55	TCMX	0.0662	0.3718%	676318	163045	4.1	1	30	30	0	9.7885E-08
7	2.10	1242-1	2.8131	15.7999%	488856	75469	6.5	1	30	30	.4405	5.7545E-06
9	2.71	1242-2	3.1928	17.9326%	1005081	123835	8.1	2	30	30	.3338	3.1767E-06
12	3.52	1242-3	3.3369	18.7417%	1844361	204394	9.0	2	30	30	.1521	1.8093E-06
13	3.86	1242-4	3.5298	19.8251%	888017	81616	10.9	2	30	30	.2225	3.9749E-06
19	6.65	1242-5	4.8658	27.3289%	1821224	64589	28.2	2	30	30	2.012	2.6717E-06
30	26.55	MIREX	1.0000	0.0000%	2708067	44042	61.5	1	30	30	0	3.6927E-07

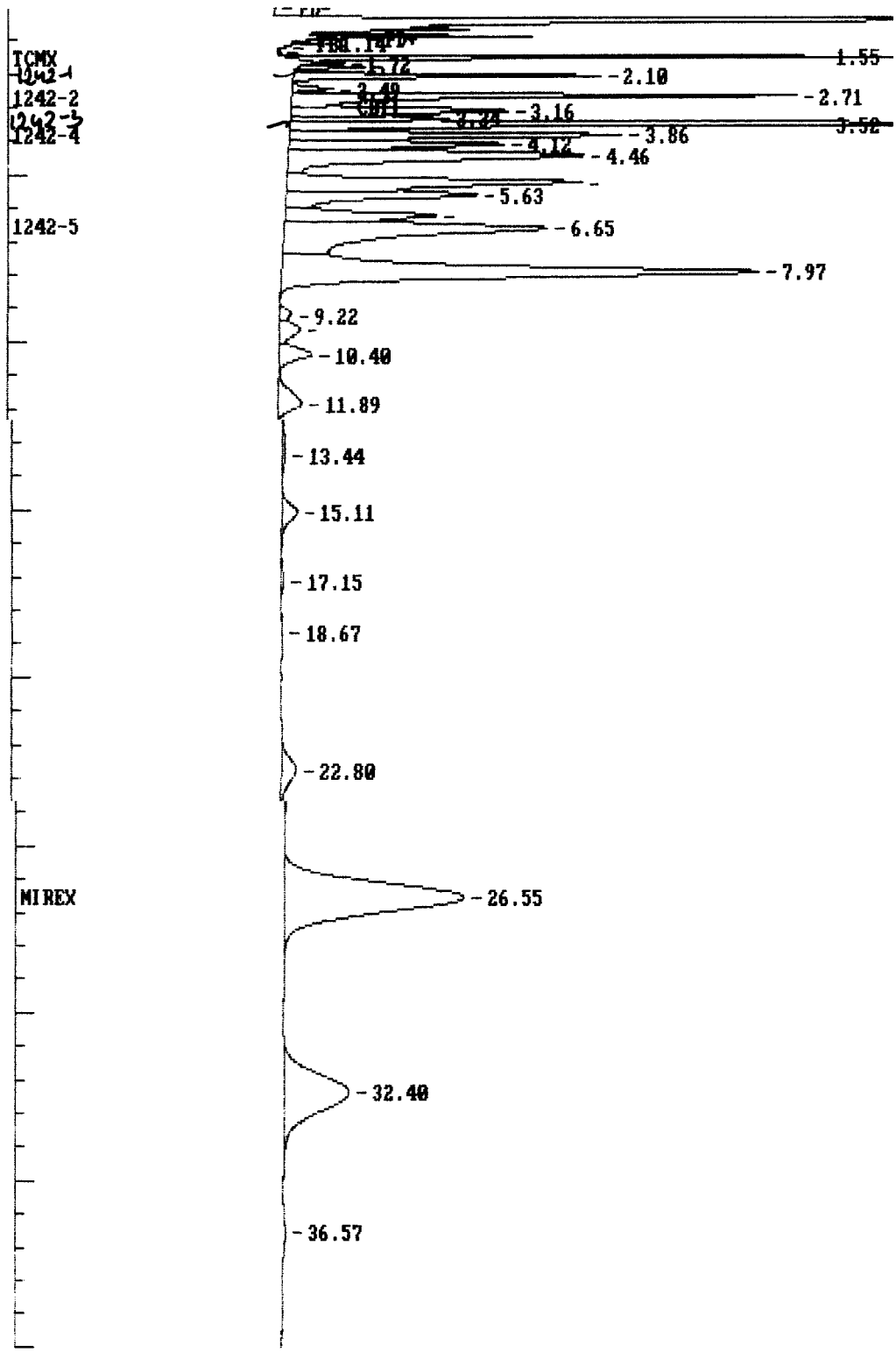
TOTAL AMOUNT = 17.8047

AV= 3.5479
(N=5)

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALCO23.PTS Printed on 11-16-1990 at 15:54:10
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
91FH30S86 Processed: 11-13-1990 21:52:35, segment 2, cycle 22
RAW DATA SAVED IN FILE U:1ALC022.PTS Second Channel Stored in U:2ALC022.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 21:52:45 Version 4.1 **********
* Sample Name: 91FH30S86 PCB MSD SF7465 Data File: U:1ALC022 *
* Date: 11-13-1990 21:52:40 Method: U:1PCB1242 11-07-1990 10:46:27 # 182*
* Interface: 0 Cycle#: 22 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: CONFIRMATORY COLUMN LPT1: * * 11/26/90
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.025000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.64	TCMX	0.0798	0.5518%	1019127	179075	5.7	2	20	20	1.658	7.8344E-08
4	1.90	1242-1	2.6279	18.1630%	642243	95217	6.7	3	20	20	-.2172	4.0918E-06
6	2.40	1242-2	2.8627	19.7861%	1137830	138649	8.2	2	20	20	.4805	2.5160E-06
7	2.64	1242-3	2.5604	17.6965%	693633	82160	8.4	2	20	20	-.2172	3.6913E-06
8	3.07	1242-4	3.1714	21.9190%	2553607	226761	11.3	2	20	20	-.2172	1.2419E-06
13	5.39	1242-5	3.1662	21.8836%	1965590	87695	22.4	2	20	20	0	1.6108E-06
20	23.06	MIREX	1.0000	0.0000%	3488594	52673	66.2	2	20	20	0	2.8665E-07

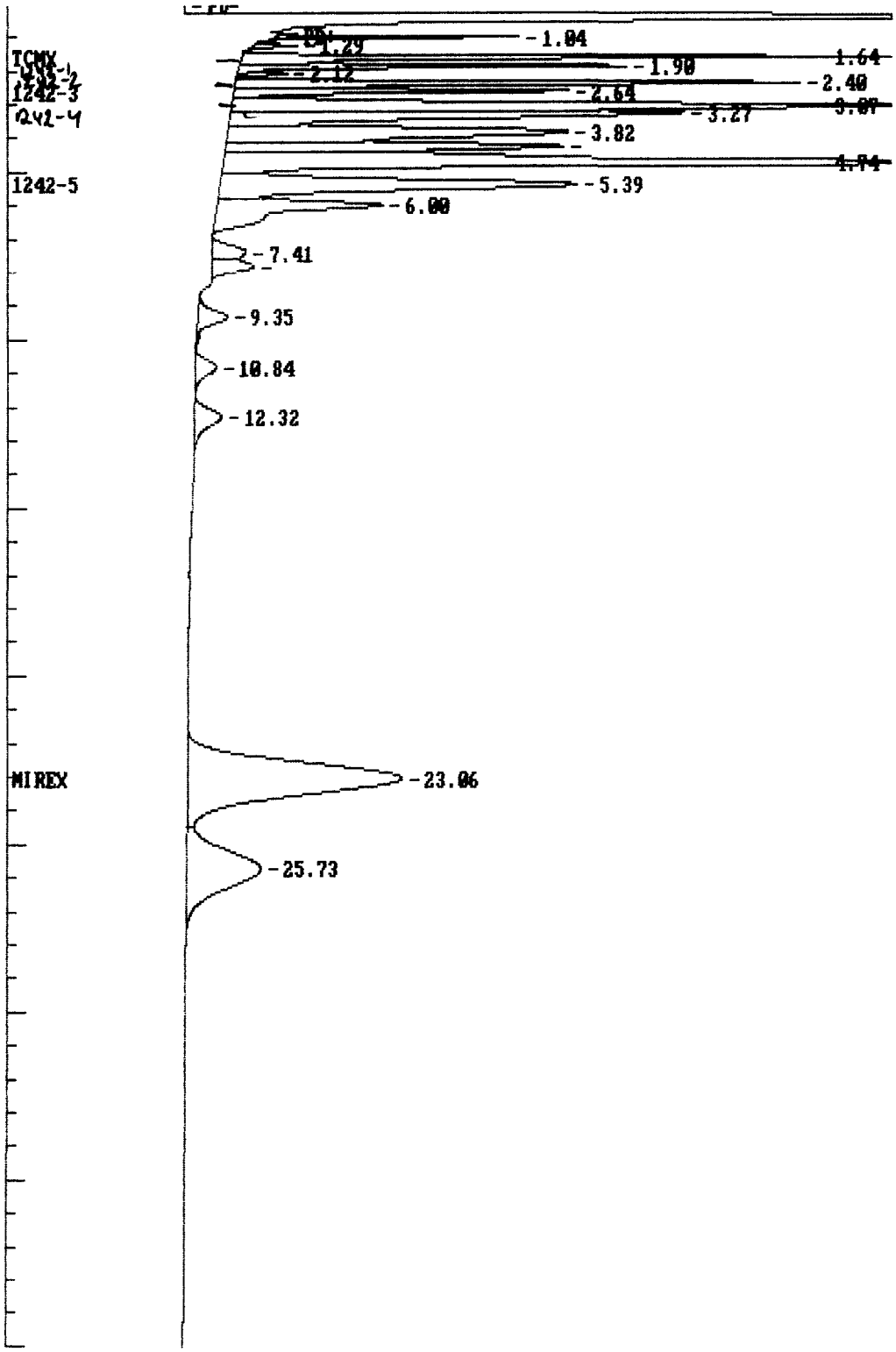
TOTAL AMOUNT = 14.4685

AV: 2.8777
(n=5)

VM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALCO22.ATB
Data File = U:1ALCO22.PTS Printed on 11-13-1990 at 21:53:03
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

PART V

Sample Data

A. Reports and Chromatograms

i) primary
ii) secondary

B. Comparison Chromatograms

i) primary
ii) secondary

5

PRIMARY COLUMN

INTERNAL STANDARD TABLE

********** 11-16-1990 15:19:53 Version 4.1 **********

* Sample Name: 91FH03R85 SF 7465 Data File: U:2ALC011 *
* Date: 11-13-1990 13:47:18 Method: U:2PESTA 11-16-1990 14:10:05 # 129 *
* Interface: 0 Cycle#: 11 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CD~~ *

DKC 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L UG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~10~~	~~4.07~~	~~ALDRIN~~	~~0.0044~~	~~1.9527%~~	~~9126~~	~~772~~	~~11.8~~	~~1~~	~~19~~	~~19~~	~~.3438~~	~~4.7825E-07~~
~~[illegible]~~	~~7.62~~	~~ENDO I~~	~~0.0012~~	~~0.5275%~~	~~12608~~	~~615~~	~~20.5~~	~~1~~	~~19~~	~~19~~	~~-.5038~~	~~9.3602E-08~~
~~[illegible]~~	~~[illegible]03~~	~~DIELDRIN~~	~~0.0127~~	~~5.6660%~~	~~78678~~	~~2391~~	~~32.9~~	~~1~~	~~19~~	~~19~~	~~-3.285~~	~~1.6092E-07~~
[illegible]	24.77	MIREX	1.0000	0.0000%	2493958	41551	60.0	1	19	19	0	4.0097E-07
~~NC 20~~	~~30.21~~	~~METHOXYCHLOR~~	~~0.2053~~	~~91.8539%~~	~~814293~~	~~11146~~	~~73.1~~	~~1~~	~~19~~	~~19~~	~~-2.911~~	~~2.5212E-07~~

TOTAL AMOUNT = 0.2235

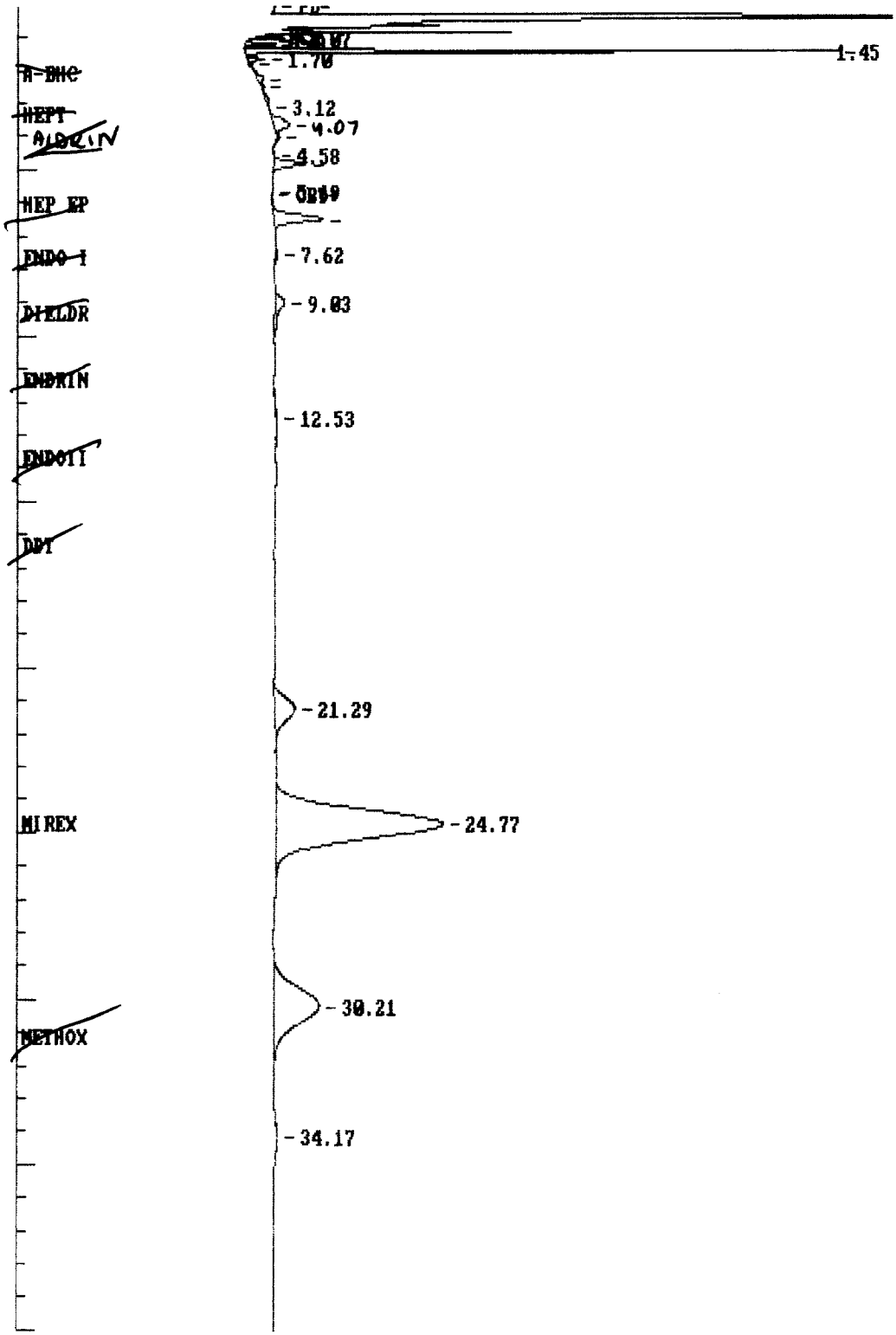
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	2.12	MIREX
LINDANE	2.69	MIREX
HEPT	3.36	MIREX
HEP EPOX	6.07	MIREX
ENDRIN	11.31	MIREX
ENDOII	13.67	MIREX
DDT	16.33	MIREX

UM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC011.PTS Printed on 11-16-1990 at 12:26:59
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

PRIMARY COLUMN

INTERNAL STANDARD TABLE

********** 11-16-1990 14:55:29 Version 4.1 **********

* Sample Name: 91FH03R85 SF 7465 Data File: U:2ALC011 *
* Date: 11-13-1990 13:47:18 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 11 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN * DKC
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * 11/26/90
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L UW	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.45	TCMX	0.0612	27.1985%	557411	147463	3.8	2	17	17	.2675	1.0985E-07
~~[illegible]~~	~~3.12~~	~~B-BHC~~	~~-0.0089~~	~~-3.9557%~~	~~1223~~	~~116~~	~~10.5~~	~~2~~	~~17~~	~~17~~	~~2.254~~	~~-7.2819E-06~~
~~[illegible]~~	~~3.69~~	~~D-BHC~~	~~0.0163~~	~~7.2533%~~	~~112682~~	~~4823~~	~~23.4~~	~~2~~	~~17~~	~~17~~	~~3.340~~	~~1.4491E-07~~
~~12~~	~~6.51~~	~~G-CHLORDANE~~	~~0.0191~~	~~8.5022%~~	~~190116~~	~~12072~~	~~15.7~~	~~1~~	~~17~~	~~17~~	~~3.876~~	~~1.0068E-07~~
~~13~~	~~7.62~~	~~A-CHLORDANE~~	~~0.0033~~	~~-1.4823%~~	~~12608~~	~~615~~	~~20.5~~	~~1~~	~~17~~	~~17~~	~~3.003~~	~~-2.6466E-07~~
~~14~~	~~9.03~~	~~DDE~~	~~0.0159~~	~~7.0435%~~	~~78698~~	~~2391~~	~~32.9~~	~~1~~	~~17~~	~~17~~	~~1.951~~	~~2.0149E-07~~
~~16~~	~~21.29~~	~~END SULFATE~~	~~0.0247~~	~~11.0488%~~	~~237474~~	~~5024~~	~~47.3~~	~~1~~	~~17~~	~~17~~	~~-1.401~~	~~1.0474E-07~~
17	24.77	MIREX	1.0000	0.0000%	2493958	41551	60.0	1	17	17	0	4.0097E-07
~~18~~	~~30.21~~	~~END KETONE~~	~~0.0999~~	~~44.3917%~~	~~814293~~	~~11146~~	~~73.1~~	~~1~~	~~17~~	~~17~~	~~3.323~~	~~1.2273E-07~~

TOTAL AMOUNT = 0.2251

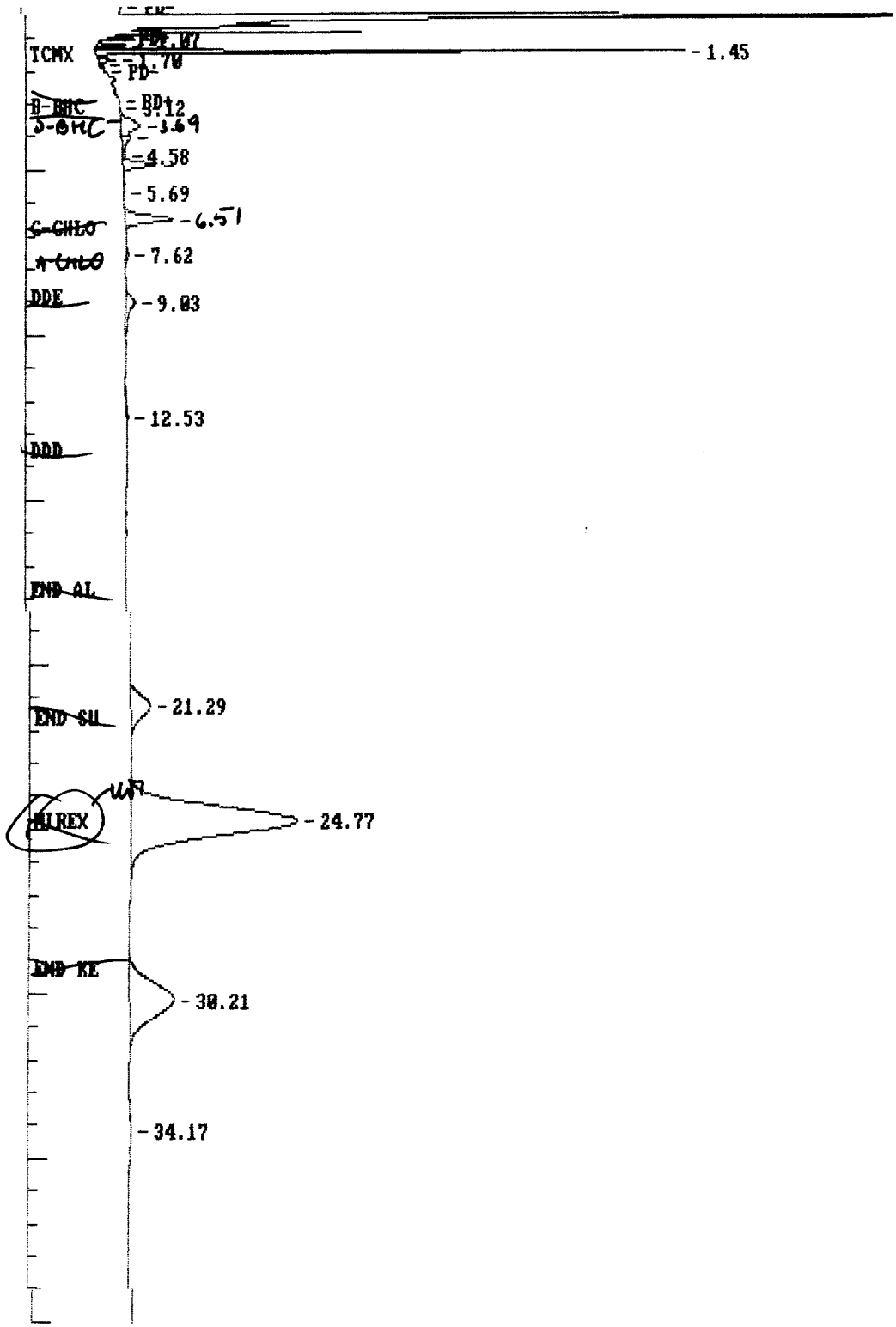
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DDD	13.52	MIREX
END ALDEHYDE	17.74	MIREX

UW
11/19/90

PRIMARY COLUMN

Data File = U:2ALC011.PTS Printed on 11-16-1990 at 14:55:51
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
91FH03R85 Processed: 11-13-1990 13:03:04, segment 5, cycle 10
RAW DATA SAVED IN FILE U:1ALC010.PTS Second Channel Stored in U:2ALC010.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 13:03:14 Version 4.1 **********
* Sample Name: 91FH03R85 SF 7465 Data File: U:1ALC010 *
* Date: 11-13-1990 13:03:09 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 10 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: CONFIRMATORY COLUMN LPT1: * * 11/26/90
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~[illegible]~~	~~1.94~~	~~A-BHC~~	~~0.0093~~	~~8.6080%~~	~~29564~~	~~3656~~	~~8.1~~	~~4~~	~~17~~	~~17~~	~~.4863~~	~~3.1591E-07~~
~~[illegible]~~	~~2.27~~	~~LINDANE~~	~~0.0077~~	~~7.0967%~~	~~30234~~	~~1282~~	~~23.6~~	~~1~~	~~17~~	~~17~~	~~.7243~~	~~2.5467E-07~~
~~[illegible]~~	~~3.37~~	~~HEPT.~~	~~0.0061~~	~~5.6367%~~	~~71155~~	~~4655~~	~~15.3~~	~~2~~	~~17~~	~~17~~	~~-.4576~~	~~8.6375E-08~~
~~[illegible]~~	~~5.28~~	~~HEP EPOX~~	~~0.0078~~	~~7.1601%~~	~~47882~~	~~2045~~	~~23.4~~	~~2~~	~~17~~	~~17~~	~~-2.360~~	~~1.6224E-07~~
~~[illegible]~~	~~8.05~~	~~DIELDRIN~~	~~0.0087~~	~~8.2172%~~	~~4563~~	~~220~~	~~20.8~~	~~1~~	~~17~~	~~17~~	~~3.004~~	~~1.9540E-06~~
~~[illegible]~~	~~12.61~~	~~DDT~~	~~0.0686~~	~~63.2611%~~	~~351511~~	~~9295~~	~~37.8~~	~~3~~	~~17~~	~~17~~	~~-1.012~~	~~1.9526E-07~~
17	23.55	MIREX	1.0000	0.0000%	3579147	53331	67.1	2	17	17	0	2.7940E-07

TOTAL AMOUNT = 0.1085

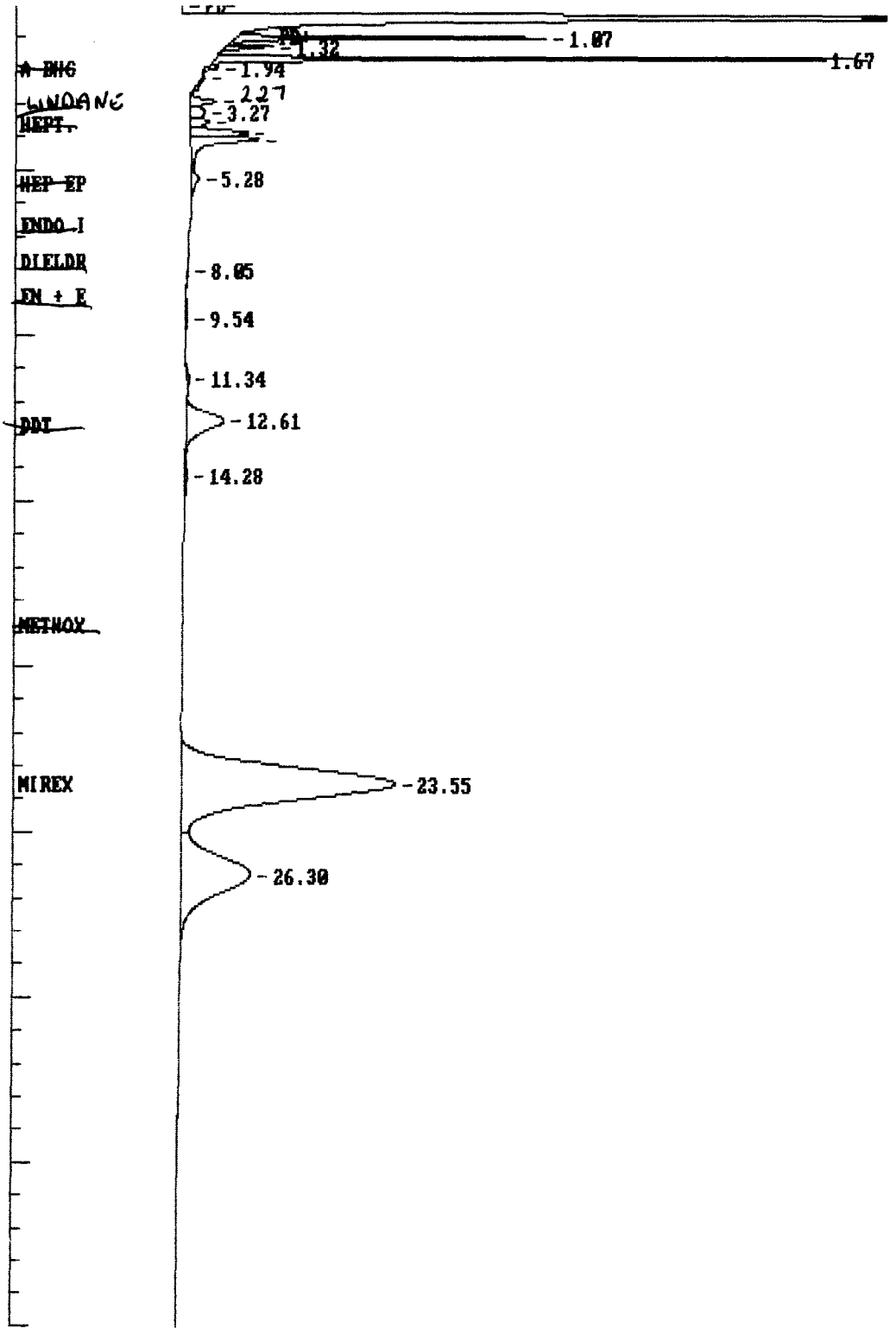
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALDRIN	4.46	MIREX
ENDO I	6.71	MIREX
EN + EN II	8.83	MIREX
METHOXYCHLOR	18.78	MIREX

KCM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC010.ATB
Data File = U:1ALC010.PTS Printed on 11-13-1990 at 13:03:36
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VCM
11/19/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 16:12:52 Version 4.1 **********

* Sample Name: 91FH03R85 SF 7465 Data File: U:1ALC010 *
* Date: 11-13-1990 13:03:09 Method: U:1PESTB 11-07-1990 10:19:54 # 170 *
* Interface: 0 Cycle#: 10 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.67	TCMX	0.0596	54.0938%	766959	158918	4.8	3	17	17	.9117	7.7760E-08
RT ~~5~~	~~2.27~~	~~D-BHC~~	~~0.0161~~	~~14.5737%~~	~~30234~~	~~1202~~	~~23.6~~	~~1~~	~~17~~	~~17~~	~~.7644~~	~~5.3143E-07~~
RT ~~12~~	~~8.05~~	~~DDE~~	~~0.0037~~	~~3.3646%~~	~~4563~~	~~220~~	~~20.8~~	~~1~~	~~17~~	~~17~~	~~3.680~~	~~8.1303E-07~~
NC ~~13~~	~~9.54~~	~~DDD+END ALD~~	~~0.0023~~	~~2.1233%~~	~~12812~~	~~369~~	~~34.7~~	~~1~~	~~17~~	~~17~~	~~-2.298~~	~~1.8271E-07~~
RT ~~14~~	~~11.34~~	~~END SULFATE~~	~~0.0098~~	~~8.9202%~~	~~7512~~	~~266~~	~~28.2~~	~~1~~	~~17~~	~~17~~	~~-.3668~~	~~1.3092E-06~~
RT ~~16~~	~~14.28~~	~~END KETONE~~	~~0.0187~~	~~16.9244%~~	~~15065~~	~~427~~	~~35.3~~	~~4~~	~~17~~	~~17~~	~~-2.241~~	~~1.2386E-06~~
17	23.55	MIREX	1.0000	0.0000%	3579147	53331	67.1	2	17	17	0	2.7940E-07

TOTAL AMOUNT = 0.1103

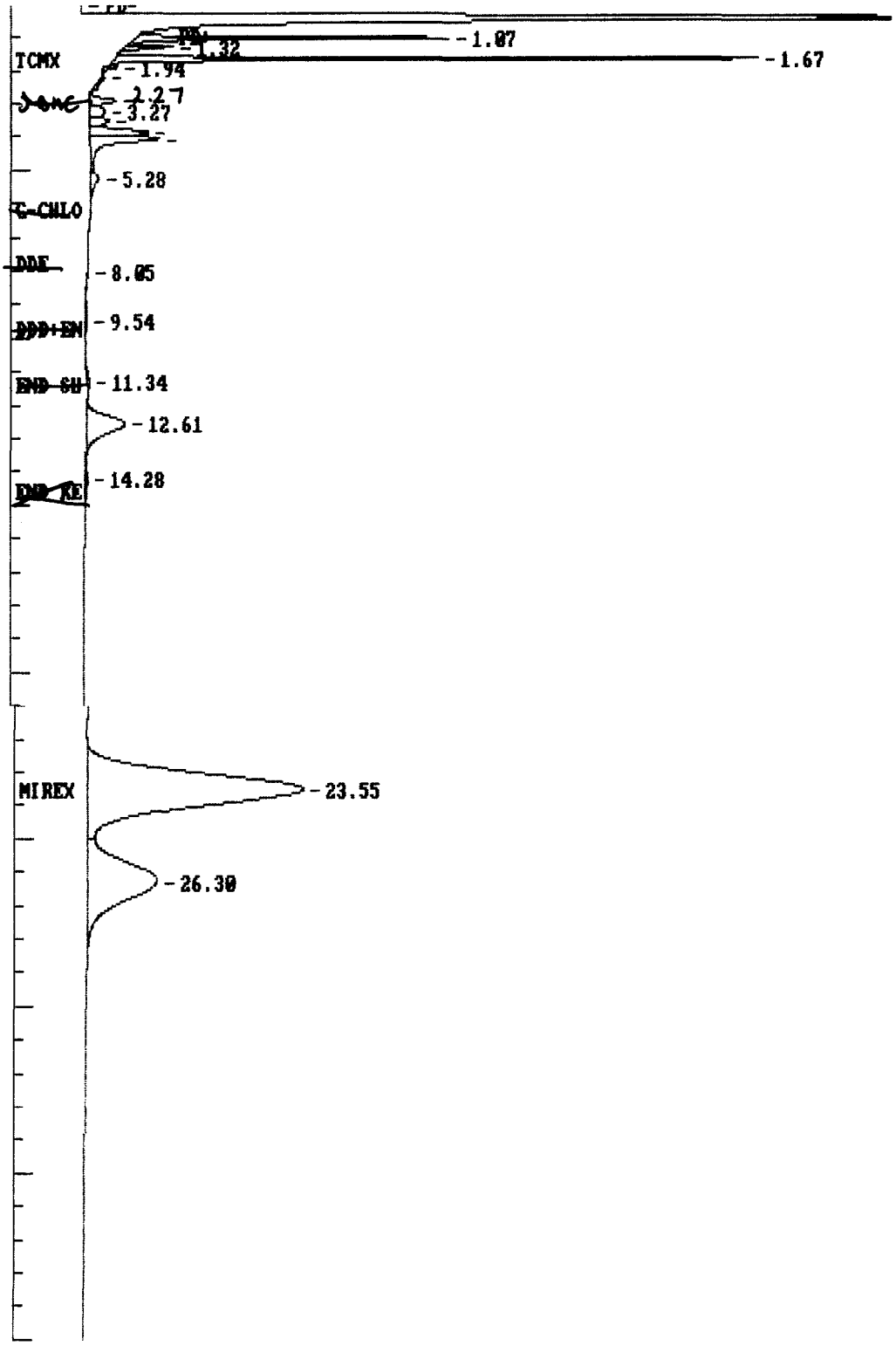
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	2.05	MIREX
G-CHLOR	6.18	MIREX
A-CHLOR	6.83	MIREX

KM 11/19/90

SECONDARY COLUMN

Data File = U:1ALC010.PTS Printed on 11-16-1990 at 16:13:14
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/19/90

PRIMARY COLUMN

INTERNAL STANDARD TABLE

********** 11-16-1990 15:19:01 Version 4.1 **********

* Sample Name: 91FH30S85 SF 7465 Data File: U:2ALC012 *
* Date: 11-13-1990 14:31:28 Method: U:2PESTA 11-16-1990 14:10:05 # 129 *
* Interface: 0 Cycle#: 12 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.025000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
[illegible]	2.07	A-BHC	0.0128	1.3506%	96974	21595	4.5	1	25	25	-2.164	1.3234E-07
[illegible]	2.62	LINDANE	0.0024	0.2551%	1467	367	4.0	1	25	25	-2.286	1.6521E-06
[illegible]	[illegible].29	HEPT	0.0028	0.2938%	16913	2549	6.6	1	25	25	1.791	1.6503E-07
[illegible]	[illegible]07	ALDRIN	0.0090	0.9443%	44352	1591	27.9	1	25	25	.6151	2.0229E-07
14	[illegible]45	ENDO I	0.0528	5.5569%	372167	16218	22.9	2	25	25	-2.422	1.4187E-07
15	[illegible]22	DIELDRIN	0.0228	2.3971%	153906	3083	49.9	2	25	25	-1.051	1.4798E-07
20	[illegible]94	ENDRIN	0.0165	1.7410%	29646	1003	29.6	2	25	25	3.053	5.5797E-07
22	[illegible].11	ENDOII	0.0064	0.6691%	18942	175	108.5	1	25	25	3.510	3.3561E-07
25	[illegible].70	MIREX	1.0000	0.0000%	2476407	41502	59.7	1	25	25	0	4.0381E-07
26	[illegible].14	METHOXYCHLOR	0.8302	87.3797%	3412414	45563	74.9	1	25	25	2.064	2.4330E-07

TOTAL AMOUNT = 0.9501

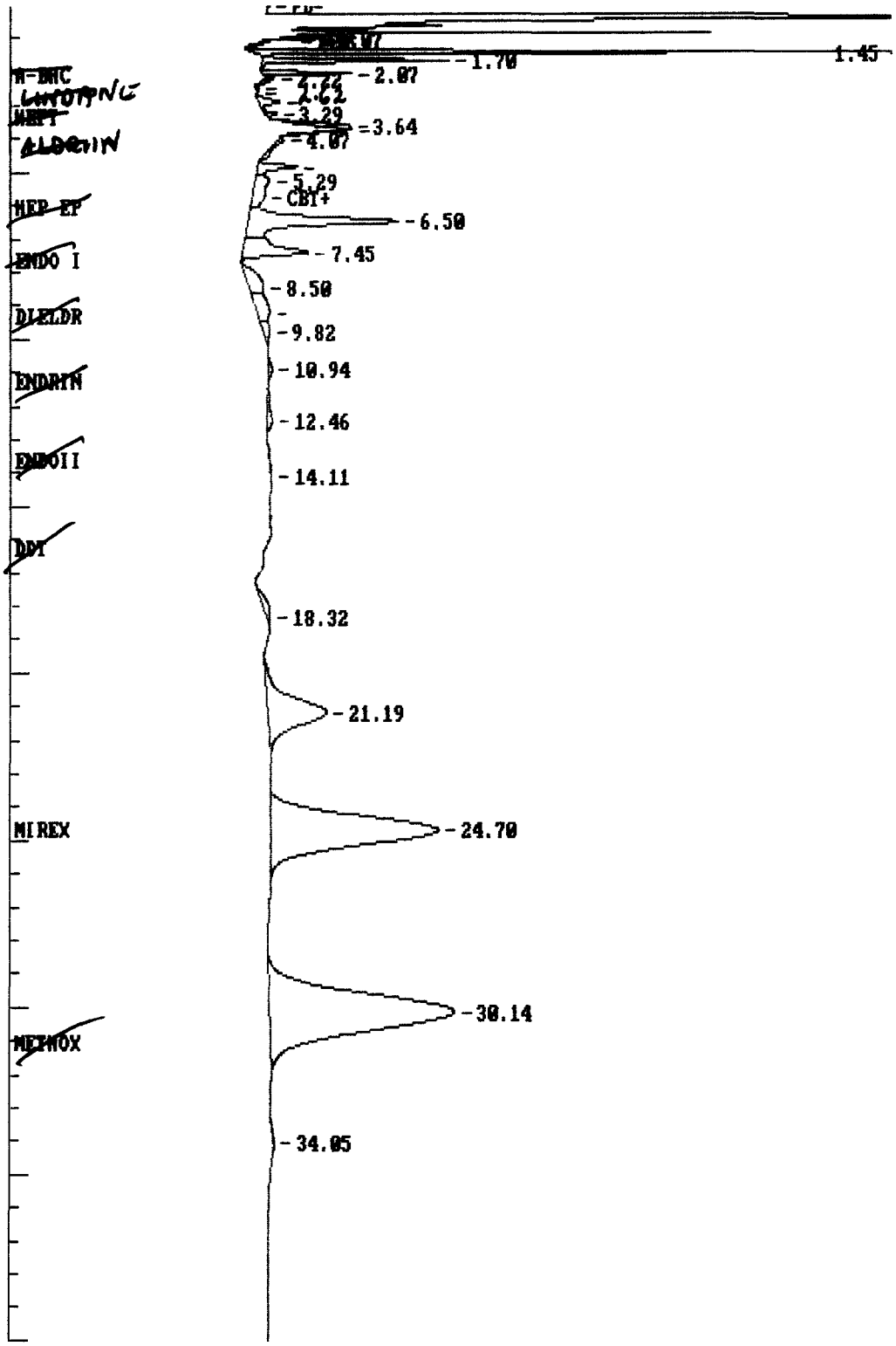
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEPTEPOX	6.05	MIREX
DDT	16.28	MIREX

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC012.PTS Printed on 11-16-1990 at 12:30:05
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VCM
11/19/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

******************** 11-16-1990 14:56:46 Version 4.1 ************************

* Sample Name: 91FH30S85 SF 7465 Data File: U:2ALC012 *

* Date: 11-13-1990 14:31:28 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *

* Interface: 0 Cycle#: 12 Operator DKC Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC

* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 10.00

Internal Standard Amount: 1

Sample Weight: 1.025000

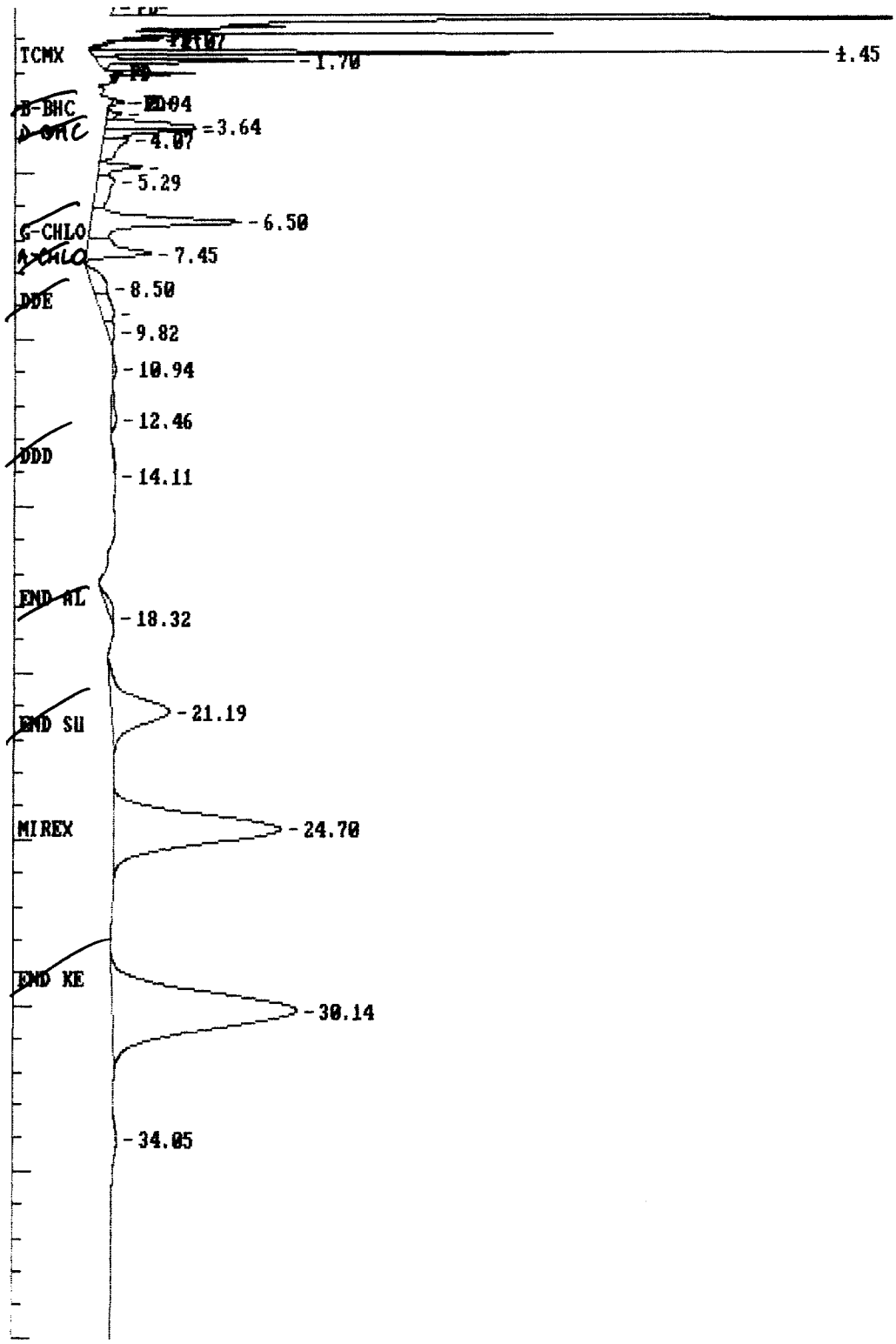
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.45	TCMX	0.0771	9.2298%	714601	182267	3.9	2	21	21	.5387	1.0793E-07
~~4~~	~~2.94~~	~~B-BHC~~	~~-0.0038~~	~~-0.4593%~~	~~22280~~	~~3239~~	~~6.9~~	~~1~~	~~21~~	~~21~~	~~-3.500~~	~~-1.7227E-07~~
~~6~~	~~3.64~~	~~D-BHC~~	~~0.0307~~	~~3.6773%~~	~~226451~~	~~22301~~	~~10.2~~	~~2~~	~~21~~	~~21~~	~~2.213~~	~~1.3569E-07~~
~~11~~	~~6.50~~	~~G-CHLORDANE~~	~~0.0913~~	~~10.9305%~~	~~733704~~	~~37326~~	~~19.7~~	~~2~~	~~21~~	~~21~~	~~3.863~~	~~1.2449E-07~~
~~12~~	~~7.45~~	~~A-CHLORDANE~~	~~0.0417~~	~~4.9943%~~	~~378872~~	~~16313~~	~~23.2~~	~~2~~	~~21~~	~~21~~	~~1.017~~	~~1.1015E-07~~
~~13~~	~~8.50~~	~~DDE~~	~~0.0257~~	~~3.0778%~~	~~145403~~	~~3526~~	~~41.2~~	~~2~~	~~21~~	~~21~~	~~-3.819~~	~~1.7688E-07~~
~~18~~	~~14.11~~	~~DDD~~	~~-0.0003~~	~~-0.0400%~~	~~18942~~	~~175~~	~~108.5~~	~~1~~	~~21~~	~~21~~	~~4.673~~	~~1.7656E-08~~
~~19~~	~~18.32~~	~~END ALDEHYDE~~	~~0.0161~~	~~1.9256%~~	~~58853~~	~~767~~	~~76.8~~	~~1~~	~~21~~	~~21~~	~~3.547~~	~~2.7341E-07~~
~~20~~	~~21.19~~	~~END SULFATE~~	~~0.1125~~	~~13.4659%~~	~~793385~~	~~14299~~	~~55.5~~	~~1~~	~~21~~	~~21~~	~~-1.600~~	~~1.4183E-07~~
21	24.70	MIREX	1.0000	0.0000%	2476407	41502	59.7	1	21	21	0	4.0381E-07
~~22~~	~~30.14~~	~~END KETONE~~	~~0.4445~~	~~53.1982%~~	~~3412414~~	~~45563~~	~~74.9~~	~~1~~	~~21~~	~~21~~	~~3.373~~	~~1.3027E-07~~

TOTAL AMOUNT = 0.8356

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC012.PTS Printed on 11-16-1990 at 14:57:08
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
91FH30S85 Processed: 11-13-1990 13:47:14, segment 6, cycle 11
RAW DATA SAVED IN FILE U:1ALC011.PTS Second Channel Stored in U:2ALC011.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 13:47:25 Version 4.1 **********
* Sample Name: 91FH30S85 SF 7465 Data File: U:1ALC011 *
* Date: 11-13-1990 13:47:20 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 11 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: CONFIRMATORY COLUMN LPT1: * * 11/26/90
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.025000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML (ug/L)	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~5~~	~~1.94~~	~~A-BHC~~	~~0.0087~~	~~4.9919%~~	~~23702~~	~~4409~~	~~5.4~~	~~2~~	~~23~~	~~23~~	~~1.276~~	~~3.6526E-07~~
~~13~~	~~5.53~~	~~HEP EPOX~~	~~0.0090~~	~~5.1776%~~	~~60770~~	~~2138~~	~~28.4~~	~~1~~	~~23~~	~~23~~	~~3.078~~	~~1.4777E-07~~
~~14~~	~~6.78~~	~~ENDO I~~	~~0.0115~~	~~6.6085%~~	~~51235~~	~~1751~~	~~29.3~~	~~2~~	~~23~~	~~23~~	~~1.795~~	~~2.2370E-07~~
~~[illegible]~~	~~7.65~~	~~DIELDRIN~~	~~0.0118~~	~~6.7893%~~	~~32581~~	~~1302~~	~~25.0~~	~~2~~	~~23~~	~~23~~	~~-1.354~~	~~3.6140E-07~~
~~[illegible]~~	~~12.49~~	~~DDT~~	~~0.1326~~	~~76.4327%~~	~~897387~~	~~21731~~	~~41.3~~	~~3~~	~~23~~	~~23~~	~~-1.158~~	~~1.4772E-07~~
23	23.36	MIREX	1.0000	0.0000%	3508738	52571	66.7	2	23	23	0	2.8500E-07

TOTAL AMOUNT = 0.1734

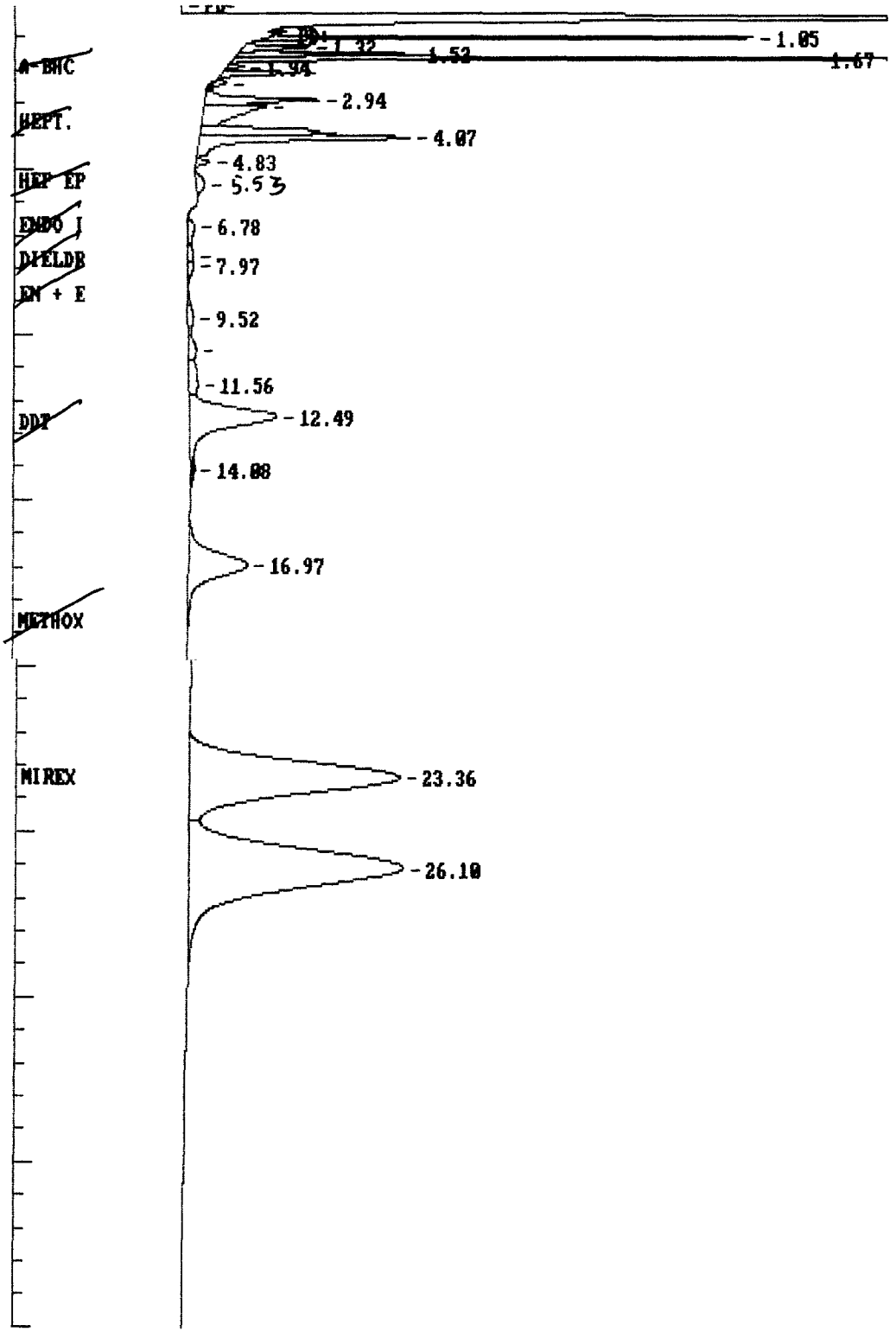
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
LINDANE	2.24	MIREX
HEPT.	3.57	MIREX
ALDRIN	4.42	MIREX
EN + EN II	8.76	MIREX
METHOXYCHLOR	18.63	MIREX

KM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC011.ATB
Data File = U:1ALC011.PTS Printed on 11-13-1990 at 13:47:46
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-16-1990 16:14:06 Version 4.1 ********************
* Sample Name: 91FH30S85 SF 7465                    Data File: U:1ALC011     *
* Date: 11-13-1990 13:47:20 Method: U:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  11   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*          Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *  *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:   40.00
Area reject:         0                     One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.025000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ML UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.67	TCMX	0.0765	48.4573%	988690	190670	5.2	2	23	23	1.705	7.7386E-08
RT ~~6~~	~~2.12~~	~~B-BHC~~	~~0.0188~~	~~11.8923%~~	~~137684~~	~~19458~~	~~7.1~~	~~3~~	~~23~~	~~23~~	~~4.395~~	~~1.3638E-07~~
RT ~~14~~	~~6.78~~	~~A-CHLOR~~	~~0.0041~~	~~2.6198%~~	~~51235~~	~~1751~~	~~29.3~~	~~2~~	~~23~~	~~23~~	~~.1215~~	~~8.0735E-08~~
RT ~~15~~	~~7.65~~	~~DDE~~	~~0.0072~~	~~4.5889%~~	~~32581~~	~~1302~~	~~25.0~~	~~2~~	~~23~~	~~23~~	~~-.7077~~	~~2.2238E-07~~
RT ~~17~~	~~9.52~~	~~DDD+END ALD~~	~~0.0082~~	~~5.1949%~~	~~56822~~	~~1279~~	~~44.4~~	~~2~~	~~23~~	~~23~~	~~-1.703~~	~~1.4435E-07~~
RT ~~19~~	~~11.56~~	~~END SULFATE~~	~~0.0238~~	~~15.0694%~~	~~112186~~	~~2071~~	~~54.2~~	~~2~~	~~23~~	~~23~~	~~2.339~~	~~2.1209E-07~~
RT ~~21~~	~~14.08~~	~~END KETONE~~	~~0.0192~~	~~12.1775%~~	~~24772~~	~~682~~	~~36.3~~	~~4~~	~~23~~	~~23~~	~~-2.856~~	~~7.7618E-07~~
23	23.36	MIREX	1.0000	0.0000%	3508738	52571	66.7	2	23	23	0	2.8500E-07

TOTAL AMOUNT = 0.1579

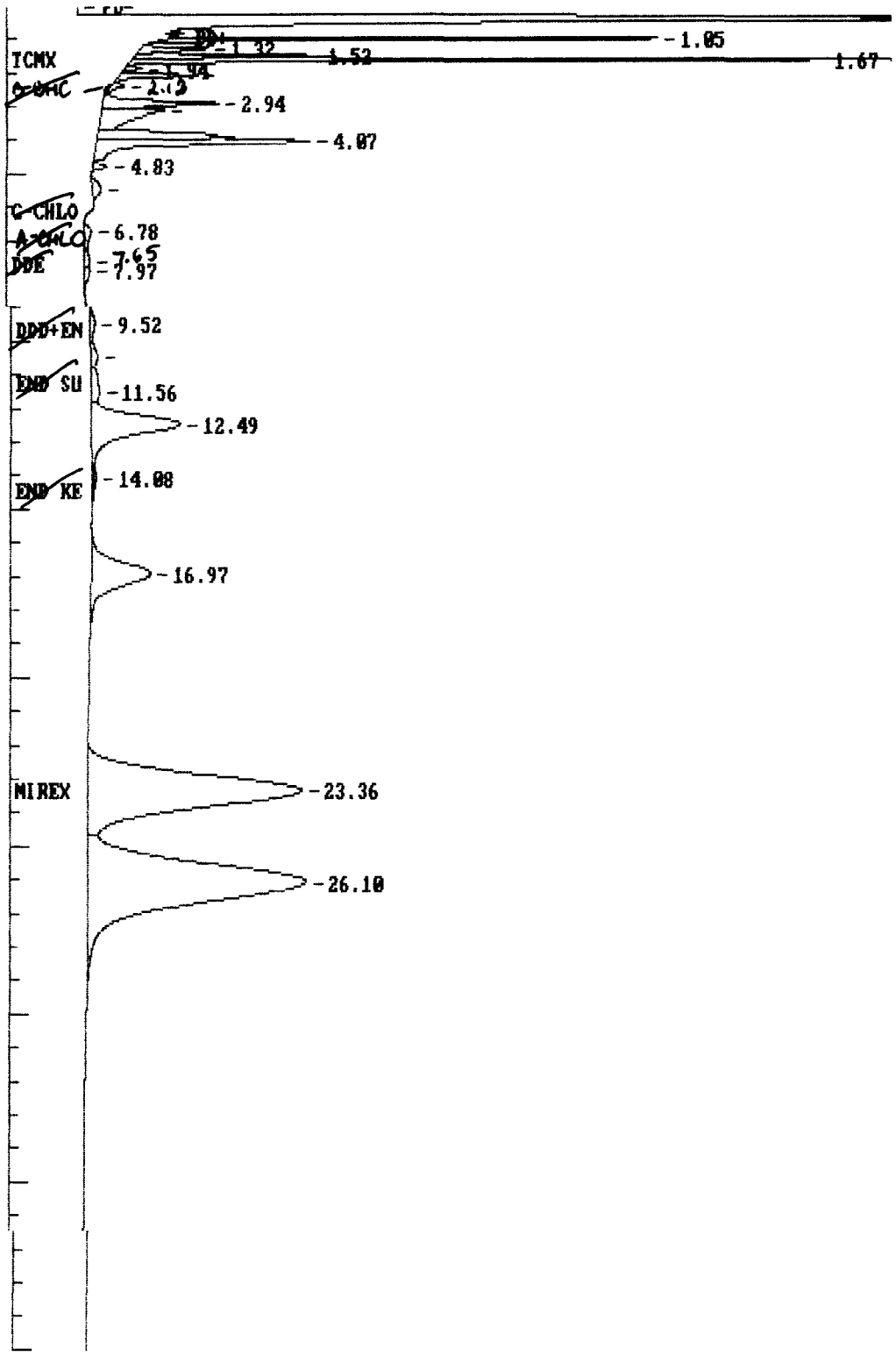
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
D-BHC	2.27	MIREX
G-CHLOR	6.13	MIREX

KM
11/19/90

SECONDARY COLUMN

Data File = U:1ALC011.PTS Printed on 11-16-1990 at 16:14:29
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

PRIMARY COLUMN

INTERNAL STANDARD TABLE

********** 11-16-1990 15:18:05 Version 4.1 **********

* Sample Name: 91FH30D85 SF 7465 Data File: U:2ALC013 *
* Date: 11-13-1990 15:15:35 Method: U:2PESTA 11-16-1990 14:10:05 # 129 *
* Interface: 0 Cycle#: 13 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.035000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~KG~~ UG/L (W)	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~7~~	~~2.07~~	~~A-BHC~~	~~0.0014~~	~~0.2594%~~	~~1199~~	~~374~~	~~3.2~~	~~1~~	~~24~~	~~24~~	~~2.031~~	~~1.1564E-06~~
~~14~~	~~3.27~~	~~HEPT~~	~~-0.0032~~	~~-0.6039%~~	~~12852~~	~~2043~~	~~6.3~~	~~1~~	~~24~~	~~24~~	~~-2.157~~	~~-2.5108E-07~~
~~13~~	~~4.07~~	~~ALDRIN~~	~~0.0054~~	~~1.0171%~~	~~17683~~	~~1105~~	~~16.0~~	~~1~~	~~24~~	~~24~~	~~.7514~~	~~3.0735E-07~~
~~17~~	~~7.43~~	~~ENDO I~~	~~0.0349~~	~~6.5221%~~	~~241562~~	~~7087~~	~~34.1~~	~~2~~	~~24~~	~~24~~	~~-2.509~~	~~1.4428E-07~~
~~18~~	~~9.27~~	~~DIELDRIN~~	~~0.0276~~	~~5.1667%~~	~~184884~~	~~1887~~	~~98.0~~	~~2~~	~~24~~	~~24~~	~~-.3794~~	~~1.4933E-07~~
24	24.67	MIREX	1.0000	0.0000%	2396999	40339	59.4	1	24	24	0	4.1719E-07
~~25~~	~~30.06~~	~~METHOXYCHLOR~~	~~0.4683~~	~~87.6385%~~	~~1873252~~	~~25145~~	~~74.5~~	~~1~~	~~24~~	~~24~~	~~3.002~~	~~2.5000E-07~~

TOTAL AMOUNT = 0.5344

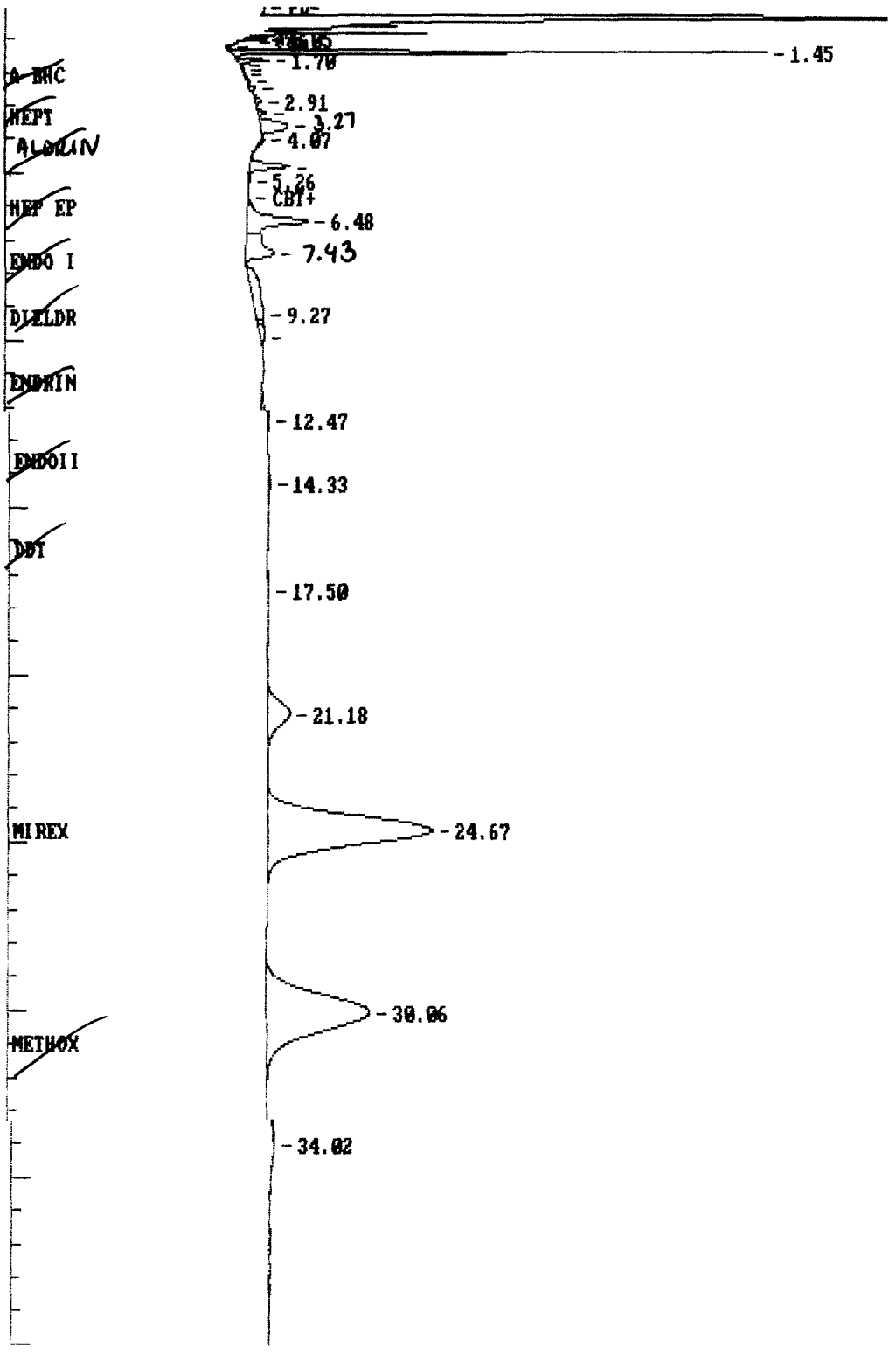
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
LINDANE	2.68	MIREX
HEP EPOX	6.04	MIREX
ENDRIN	11.27	MIREX
ENDOII	13.61	MIREX
DDT	16.26	MIREX

VCM 11/19/90

PRIMARY COLUMN

Data File = U:2ALC013.PTS Printed on 11-16-1990 at 12:34:45
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

PRIMARY COLUMN

Output redirected to LPT1:
NEW TIMED EVENTS FROM U:2PESTB

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 15:09:58 Version 4.1 **********
* Sample Name: 91FH30D85 SF 7465 Data File: U:2ALC013 *
* Date: 11-13-1990 15:15:35 Method: U:2PESTB 11-16-1990 14:24:27 # 213 *
* Interface: 0 Cycle#: 13 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ * 11/26/90
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.035000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.45	TCMX	0.0567	13.6046%	513829	131847	3.9	2	20	20	.6748	1.1043E-07
~~6~~	~~2.91~~	~~B-BHC~~	~~0.0079~~	~~1.8827%~~	~~4369~~	~~738~~	~~5.9~~	~~1~~	~~20~~	~~20~~	~~4.467~~	~~1.7973E-06~~
~~8~~	~~3.64~~	~~D-BHC~~	~~0.0255~~	~~6.1243%~~	~~182197~~	~~8064~~	~~22.6~~	~~2~~	~~20~~	~~20~~	~~2.351~~	~~1.4019E-07~~
~~12~~	~~6.48~~	~~G-CHLORDANE~~	~~0.0352~~	~~8.4480%~~	~~305428~~	~~14761~~	~~20.4~~	~~2~~	~~20~~	~~20~~	~~-3.980~~	~~1.1536E-07~~
~~13~~	~~7.43~~	~~A-CHLORDANE~~	~~0.0256~~	~~6.1391%~~	~~241562~~	~~7087~~	~~34.1~~	~~2~~	~~20~~	~~20~~	~~.9275~~	~~1.0599E-07~~
~~18~~	~~17.50~~	~~END ALDEHYDE~~	~~0.0070~~	~~1.6857%~~	~~5130~~	~~89~~	~~57.8~~	~~1~~	~~20~~	~~20~~	~~-.9438~~	~~1.3704E-06~~
~~19~~	~~21.18~~	~~END SULFATE~~	~~0.0295~~	~~7.0711%~~	~~261948~~	~~5349~~	~~49.0~~	~~1~~	~~20~~	~~20~~	~~-1.544~~	~~1.1258E-07~~
20	24.67	MIREX	1.0000	0.0000%	2396999	40339	59.4	1	20	20	0	4.1719E-07
~~21~~	~~30.06~~	~~END KETONE~~	~~0.2453~~	~~58.8098%~~	~~1873252~~	~~25145~~	~~74.5~~	~~1~~	~~20~~	~~20~~	~~3.226~~	~~1.3094E-07~~

TOTAL AMOUNT = 0.4171

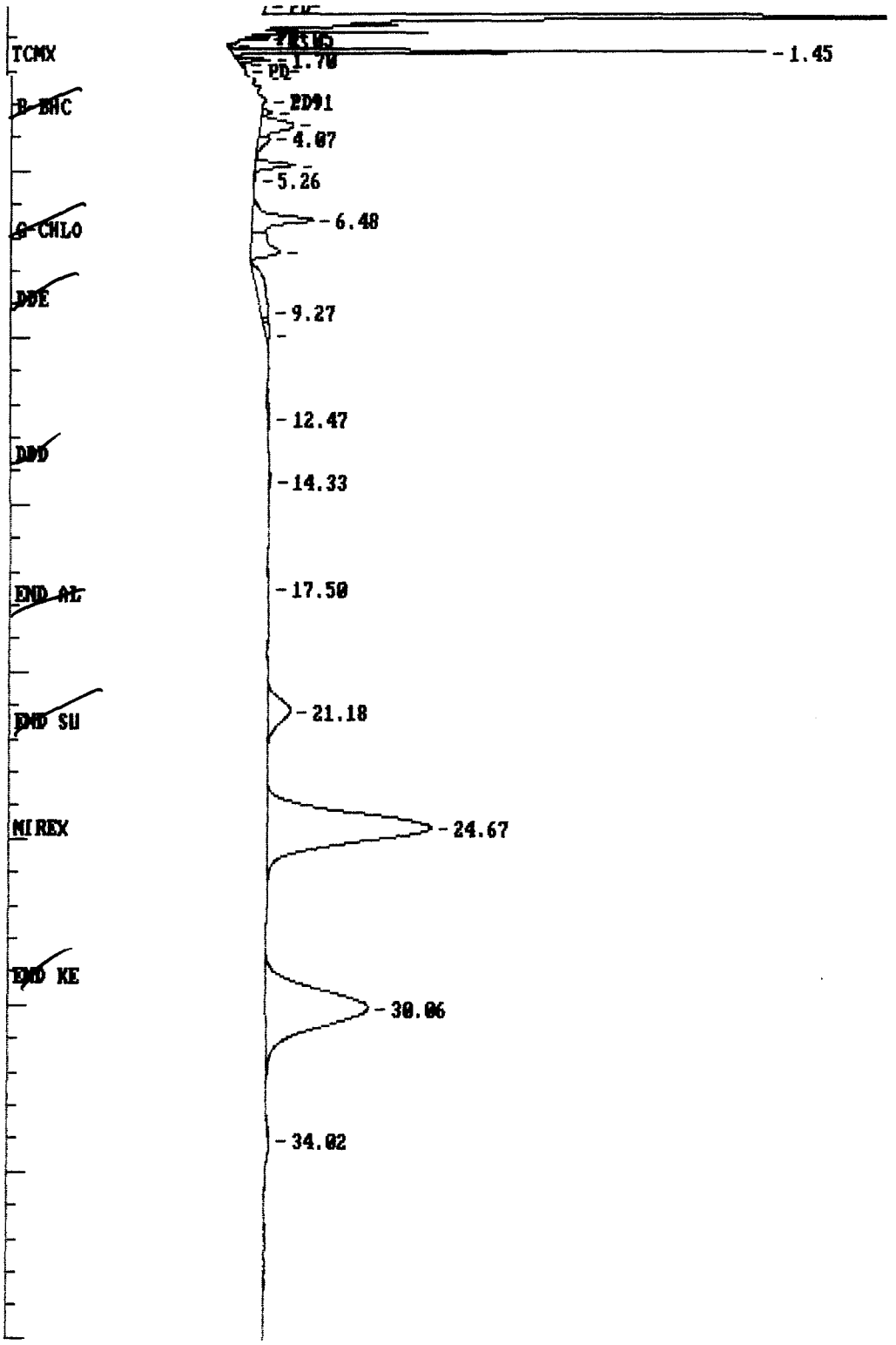
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DDE	8.83	MIREX
DDD	13.46	MIREX

KM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC013.PTS Printed on 11-16-1990 at 15:10:59
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
91FH30D85 Processed: 11-13-1990 14:31:24, segment 7, cycle 12
RAW DATA SAVED IN FILE U:1ALC012.PTS Second Channel Stored in U:2ALC012.PTS

****** INTERNAL STANDARD TABLE ******

********** 11-13-1990 14:31:35 Version 4.1 **********
* Sample Name: 91FH30D85 SF 7465 Data File: U:1ALC012 *
* Date: 11-13-1990 14:31:30 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 12 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC 11/26/90
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.035000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
[redacted]	[redacted]	~~90 A-BHC~~	~~0.0086~~	~~7.9558%~~	~~23246~~	~~3543~~	~~6.6~~	~~2~~	~~18~~	~~18~~	~~.5363~~	~~3.6947E-07~~
[redacted]	[redacted]	~~20 LINDANE~~	~~0.0055~~	~~5.0626%~~	~~7930~~	~~1042~~	~~7.6~~	~~2~~	~~18~~	~~18~~	~~-.4734~~	~~6.8922E-07~~
[redacted]	[redacted]	~~.46 HEP EPOX~~	~~0.0061~~	~~5.6427%~~	~~31975~~	~~1084~~	~~29.5~~	~~1~~	~~18~~	~~18~~	~~2.861~~	~~1.9061E-07~~
~~12~~	~~8.51~~	~~ENDO I~~	~~0.0070~~	~~6.5085%~~	~~11924~~	~~532~~	~~22.4~~	~~1~~	~~18~~	~~18~~	~~-1.227~~	~~5.8923E-07~~
~~13~~	~~7.46~~	~~DIELDRIN~~	~~0.0085~~	~~7.8512%~~	~~3112~~	~~192~~	~~16.2~~	~~1~~	~~18~~	~~18~~	~~-2.750~~	~~2.7233E-06~~
~~16~~	~~12.39~~	~~DDT~~	~~0.0723~~	~~66.9771%~~	~~385161~~	~~10044~~	~~38.3~~	~~3~~	~~18~~	~~18~~	~~-.9604~~	~~1.8773E-07~~
18	23.13	MIREX	1.0000	0.0000%	3416472	51401	66.5	2	18	18	0	2.9270E-07

TOTAL AMOUNT = 0.1080

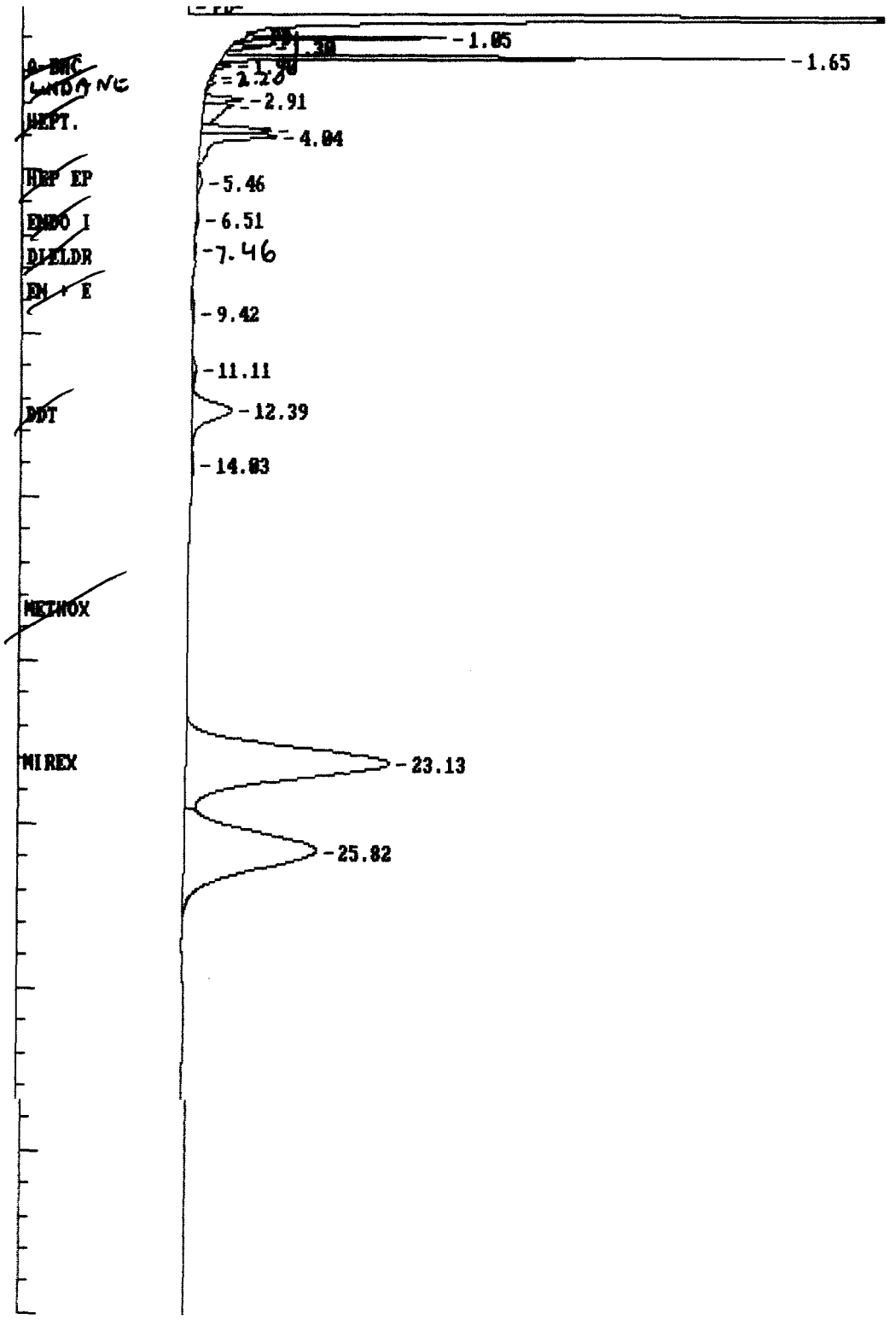
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEPT.	3.53	MIREX
ALDRIN	4.38	MIREX
EN + EN II	8.67	MIREX
METHOXYCHLOR	18.45	MIREX

KAT 11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC012.ATB
Data File = U:1ALC012.PTS Printed on 11-13-1990 at 14:31:56
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-16-1990 16:15:24 Version 4.1 **********

* Sample Name: 91FH30D85 SF 7465 Data File: U:1ALC012 *
* Date: 11-13-1990 14:31:30 Method: U:1PESTB 11-07-1990 10:19:54 # 170 *
* Interface: 0 Cycle#: 12 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT * DKC
* Misc. Information: CONFIRMATORY COLUMN LPT1: * * 11/26/90

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.035000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.65	TCMX	0.0543	50.6284%	690425	141633	4.9	2	18	18	1.705	7.8708E-08
RT ~~5~~	~~2.20~~	~~D-BHC~~	~~0.0135~~	~~12.5370%~~	~~7930~~	~~1042~~	~~7.6~~	~~2~~	~~18~~	~~18~~	~~-1.944~~	~~1.6970E-06~~
RT ~~12~~	~~6.51~~	~~A-CHLOR~~	~~0.0006~~	~~0.5561%~~	~~11924~~	~~532~~	~~22.4~~	~~1~~	~~18~~	~~18~~	~~-2.851~~	~~5.0060E-08~~
~~13~~	~~7.46~~	~~DDE~~	~~0.0034~~	~~3.1872%~~	~~3112~~	~~192~~	~~16.2~~	~~1~~	~~18~~	~~18~~	~~-2.112~~	~~1.0992E-06~~
RT ~~14~~	~~9.42~~	~~DDD+END ALD~~	~~0.0035~~	~~3.2447%~~	~~21207~~	~~522~~	~~40.6~~	~~1~~	~~18~~	~~18~~	~~-1.754~~	~~1.6422E-07~~
RT ~~15~~	~~11.11~~	~~END SULFATE~~	~~0.0141~~	~~13.1584%~~	~~40716~~	~~1022~~	~~39.8~~	~~2~~	~~18~~	~~18~~	~~-.6597~~	~~3.4688E-07~~
RT ~~17~~	~~14.03~~	~~END KETONE~~	~~0.0179~~	~~16.6881%~~	~~13264~~	~~403~~	~~32.9~~	~~4~~	~~18~~	~~18~~	~~-2.223~~	~~1.3505E-06~~
18	23.13	MIREX	1.0000	0.0000%	3416472	51401	66.5	2	18	18	0	2.9270E-07

TOTAL AMOUNT = 0.1073

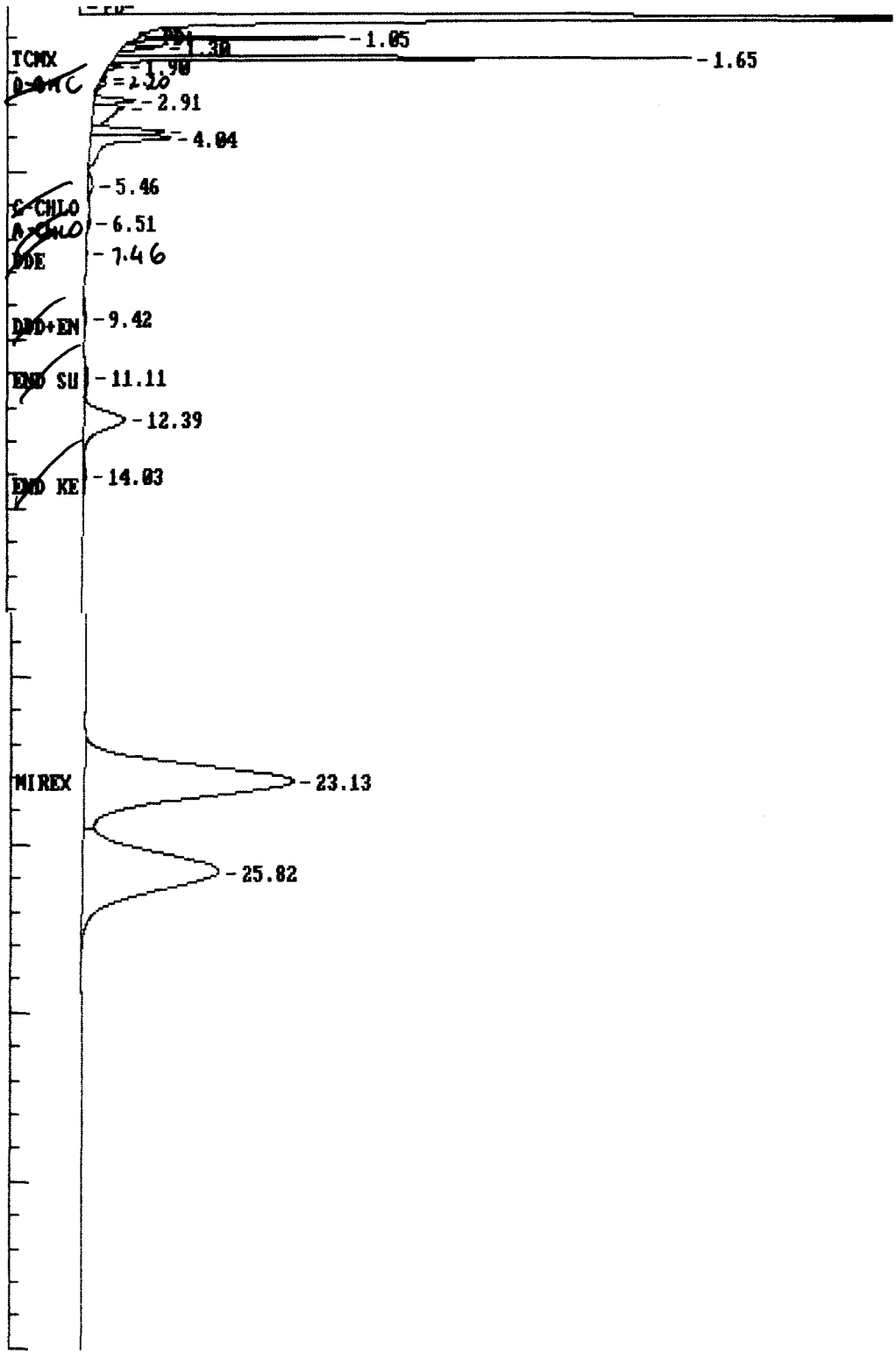
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	2.01	MIREX
G-CHLOR	6.07	MIREX

KM
11/19/90

SECONDARY COLUMN

Data File = U:1ALC012.PTS Printed on 11-16-1990 at 16:15:47
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

PRIMARY COLUMN

INTERNAL STANDARD TABLE

11-16-1990 15:12:53 Version 4.1

Sample Name: 91FH30S86 SF 7465 Data File: U:2ALC019

Date: 11-13-1990 19:40:15 Method: U:2PESTA 11-16-1990 14:10:05 # 129

Interface: 0 Cycle#: 19 Operator DKC Channel#: 1 Vial#: N.A.

Starting Peak Width: 10 Threshold: 1 Area Threshold: 100

Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS

Solvent Description: ULTRA HIGH PURITY NITROGEN

Conditions: ISOTHERMAL AT 200 CELSIUS

Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT ~~CONFIRMATORY CO~~ DKC 11/26/90

Misc. Information: PRIMARY COLUMN

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 10.00

Internal Standard Amount: 1

Sample Weight: 1.030000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~6~~	~~2.07~~	~~A BHC~~	~~0.0072~~	~~0.8445%~~	~~52668~~	~~11502~~	~~4.6~~	~~1~~	~~28~~	~~28~~	~~-2.097~~	~~1.3739E-07~~
~~9~~	~~2.61~~	~~LINDANE~~	~~0.0031~~	~~0.3566%~~	~~7022~~	~~1277~~	~~5.5~~	~~1~~	~~28~~	~~28~~	~~-2.843~~	~~4.3517E-07~~
~~11~~	~~3.36~~	~~HEPT~~	~~0.0041~~	~~0.4774%~~	~~6943~~	~~858~~	~~8.1~~	~~1~~	~~28~~	~~28~~	~~.2706~~	~~5.8921E-07~~
~~15~~	~~[illegible]93~~	~~HEP EPOX~~	~~0.0088~~	~~1.0263%~~	~~67310~~	~~2714~~	~~24.8~~	~~2~~	~~28~~	~~28~~	~~-1.939~~	~~1.3065E-07~~
[illegible]	[illegible]41	~~ENDO I~~	~~0.1365~~	~~15.9304%~~	~~1002765~~	~~53162~~	~~18.9~~	~~2~~	~~28~~	~~28~~	~~-2.794~~	~~1.3613E-07~~
[illegible]	[illegible]15	~~DIELDRIN~~	~~0.0074~~	~~0.8640%~~	~~44365~~	~~1682~~	~~26.4~~	~~2~~	~~28~~	~~28~~	~~-1.702~~	~~1.6703E-07~~
~~22~~	~~[illegible]97~~	~~ENDRIN~~	~~0.0119~~	~~1.3858%~~	~~8217~~	~~362~~	~~22.7~~	~~1~~	~~28~~	~~28~~	~~-2.691~~	~~1.4450E-06~~
~~25~~	~~[illegible].93~~	~~ENDOII~~	~~0.0041~~	~~0.4738%~~	~~880~~	~~60~~	~~14.8~~	~~1~~	~~28~~	~~28~~	~~2.231~~	~~4.6120E-06~~
28	24.68	MIREX	1.0000	0.0000%	2587648	43004	60.2	1	28	28	0	3.8645E-07
~~29~~	~~30.11~~	~~METHOXYCHLOR~~	~~0.6820~~	~~79.5952%~~	~~2939935~~	~~39156~~	~~75.1~~	~~1~~	~~28~~	~~28~~	~~-2.906~~	~~2.3199E-07~~

TOTAL AMOUNT = 0.8569

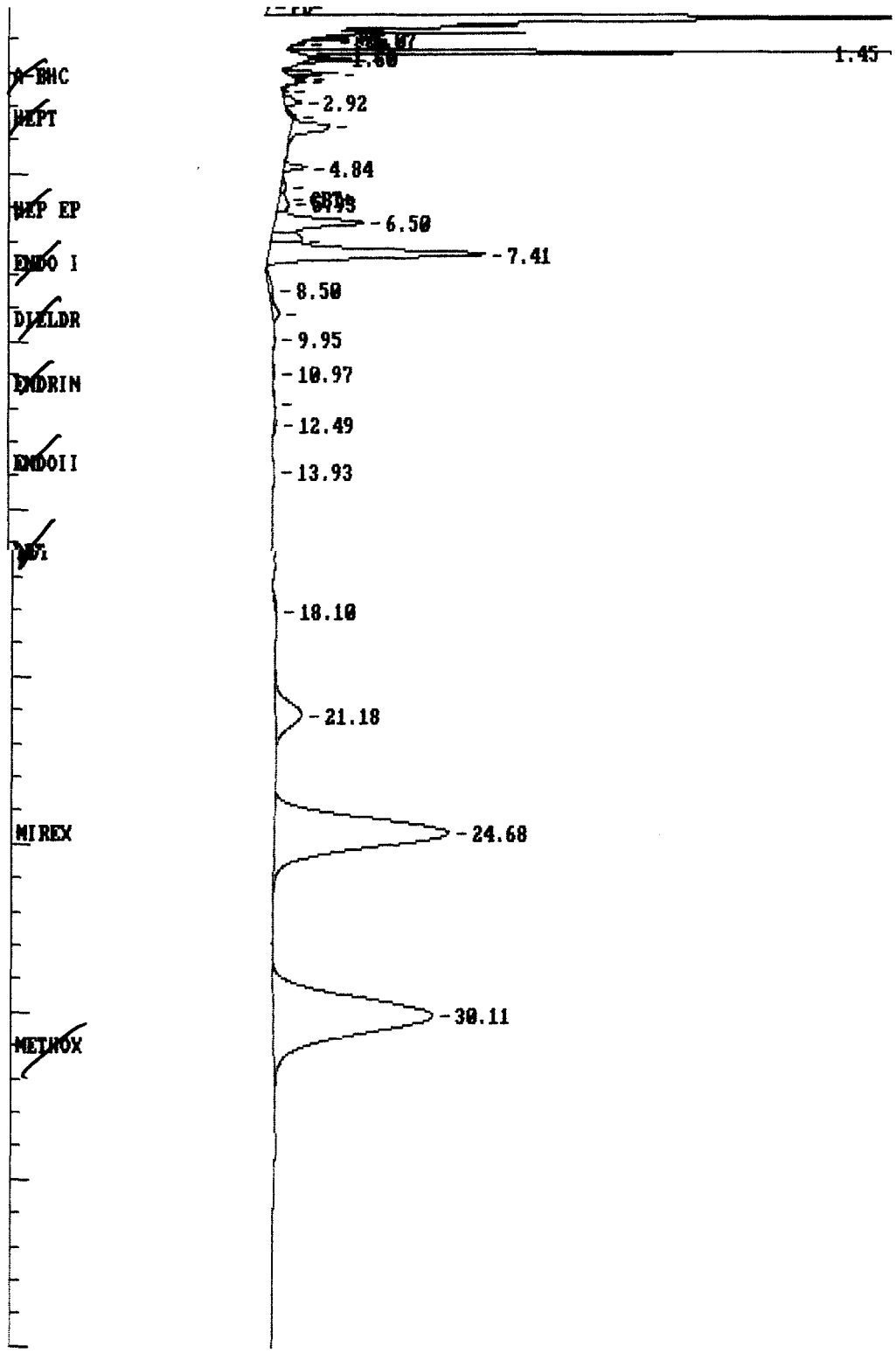
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALDRIN	4.05	MIREX
DDT	16.27	MIREX

UM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC019.PTS Printed on 11-16-1990 at 15:13:38
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/19/90

PRIMARY COLUMN

****** INTERNAL STANDARD TABLE ******

********** 11-16-1990 15:02:35 Version 4.1 **********

* Sample Name: 91FH30S86 SF 7465 Data File: U:2ALC019 *
* Date: 11-13-1990 19:40:15 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 19 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT *
* Misc. Information: PRIMARY COLUMN ~~CONFIRMATORY CO~~ *

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.030000

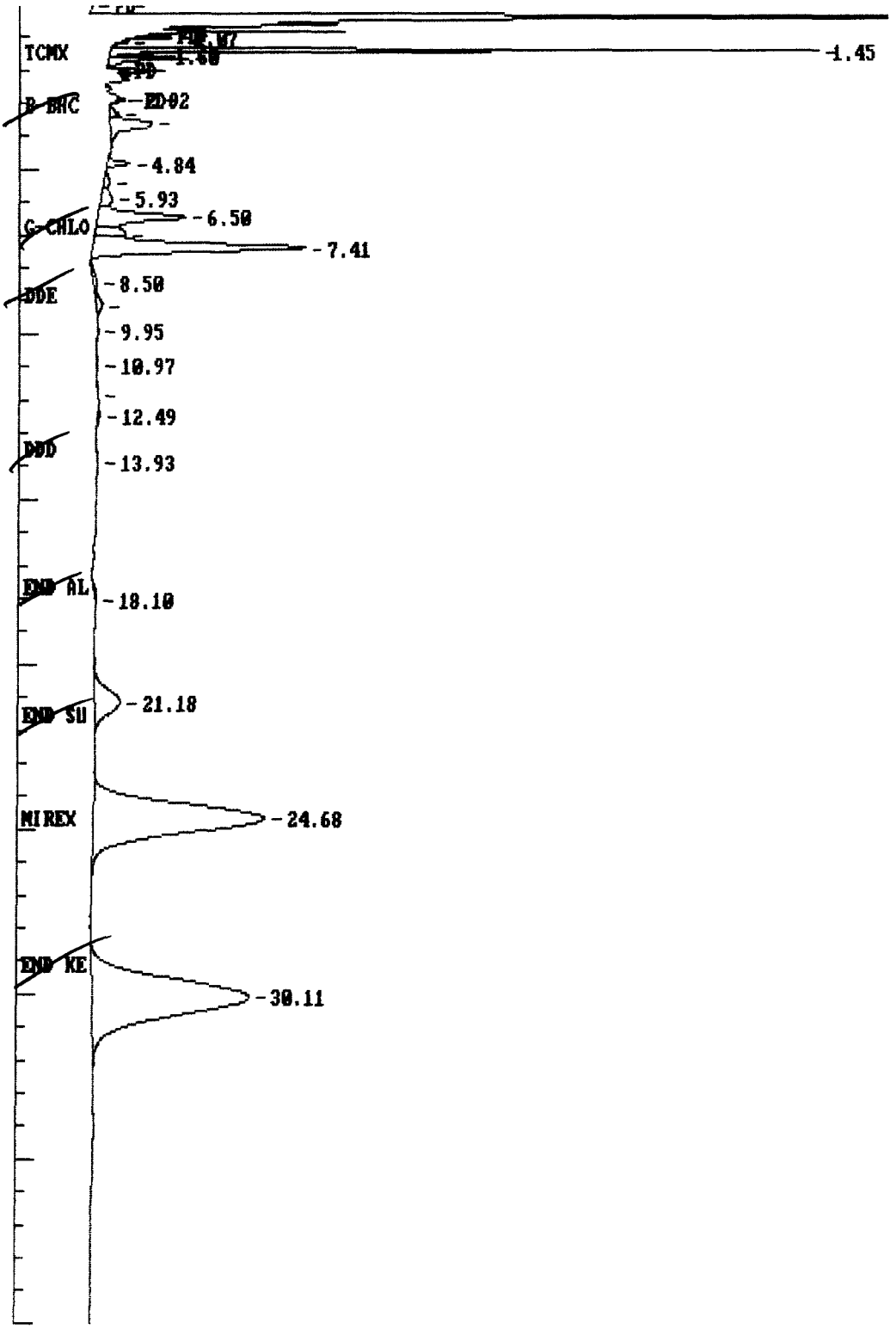
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.45	TCMX	0.0758	11.9414%	737859	177104	4.2	3	24	24	.6067	1.0279E-07
~~6~~	~~2.92~~	~~B-BHC~~	~~0.0052~~	~~0.8234%~~	~~16851~~	~~2403~~	~~7.0~~	~~1~~	~~24~~	~~24~~	~~-3.983~~	~~-3.1035E-07~~
~~8~~	~~3.64~~	~~D-BHC~~	~~0.0276~~	~~4.3459%~~	~~212423~~	~~10423~~	~~20.4~~	~~2~~	~~24~~	~~24~~	~~2.282~~	~~1.2994E-07~~
~~13~~	~~7.00~~	~~G-CHLORDANE~~	~~0.0103~~	~~1.6296%~~	~~132428~~	~~7648~~	~~17.3~~	~~2~~	~~24~~	~~24~~	~~3.620~~	~~7.8155E-08~~
~~14~~	~~7.41~~	~~A-CHLORDANE~~	~~0.1126~~	~~17.7235%~~	~~1003273~~	~~53174~~	~~18.9~~	~~2~~	~~24~~	~~24~~	~~.6326~~	~~1.1220E-07~~
~~16~~	~~9.15~~	~~DDE~~	~~0.0100~~	~~1.5719%~~	~~44365~~	~~1682~~	~~26.4~~	~~2~~	~~24~~	~~24~~	~~3.620~~	~~2.2502E-07~~
~~21~~	~~13.93~~	~~DDD~~	~~-0.0035~~	~~-0.5498%~~	~~880~~	~~60~~	~~14.8~~	~~1~~	~~24~~	~~24~~	~~3.380~~	~~3.9670E-06~~
~~22~~	~~18.10~~	~~END ALDEHYDE~~	~~0.0078~~	~~1.2246%~~	~~10000~~	~~162~~	~~61.6~~	~~1~~	~~24~~	~~24~~	~~2.389~~	~~7.7779E-07~~
~~23~~	~~21.18~~	~~END SULFATE~~	~~0.0368~~	~~5.7898%~~	~~330134~~	~~6410~~	~~51.5~~	~~1~~	~~24~~	~~24~~	~~1.611~~	~~1.1139E-07~~
24	24.68	MIREX	1.0000	0.0000%	2587648	43004	60.2	1	24	24	0	3.8645E-07
~~25~~	~~30.11~~	~~END KETONE~~	~~0.3629~~	~~57.1464%~~	~~2939935~~	~~39156~~	~~75.1~~	~~1~~	~~24~~	~~24~~	~~3.328~~	~~1.2345E-07~~

TOTAL AMOUNT = 0.6351

KM 11/19/90

PRIMARY COLUMN

Data File = U:2ALC019.PTS Printed on 11-16-1990 at 15:02:58
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
91FH30S86 Processed: 11-13-1990 18:56:08, segment 13, cycle 18
RAW DATA SAVED IN FILE U:1ALC018.PTS Second Channel Stored in U:2ALC018.PTS

****** INTERNAL STANDARD TABLE ******

```
******************** 11-13-1990 18:56:19 Version 4.1 **********************
* Sample Name: 91FH30S86 SF 7465                  Data File: U:1ALC018     *
* Date: 11-13-1990 18:56:14 Method: U:1PESTA  11-07-1990 09:11:53  #  168 *
* Interface: 0   Cycle#:  18   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT *  DKC
* Misc. Information: CONFIRMATORY COLUMN                LPT1:          *  11/26/90
*************************************************************************
```

Starting Delay: 0.00
Area reject: 0
Amount injected: 1.00
Internal Standard Amount: 1
Sample Weight: 1.030000

Ending retention time: 40.00
One sample per 1.002 sec.
Dilution factor: 10.00

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
[illegible]	[illegible]	~~7 A-BHC~~	~~0.0077~~	~~7.5969%~~	~~13735~~	~~2777~~	~~4.9~~	~~2~~	~~21~~	~~21~~	~~.5882~~	~~5.6367E-07~~
[illegible]	[illegible]	~~3 HEP EPOX~~	~~0.0186~~	~~18.2751%~~	~~159662~~	~~4248~~	~~37.6~~	~~4~~	~~21~~	~~21~~	~~4.112~~	~~1.1665E-07~~
[illegible]	[illegible]	~~65 ENDO I~~	~~0.0090~~	~~8.7967%~~	~~27851~~	~~1625~~	~~18.4~~	~~1~~	~~21~~	~~21~~	~~1.104~~	~~3.0032E-07~~
[illegible]	[illegible]	~~12 DDT~~	~~0.0666~~	~~65.3313%~~	~~350164~~	~~9731~~	~~36.0~~	~~2~~	~~21~~	~~21~~	~~-1.314~~	~~1.9014E-07~~
21	22.71	MIREX	1.0000	0.0000%	3570669	54355	65.7	2	21	21	0	2.8006E-07

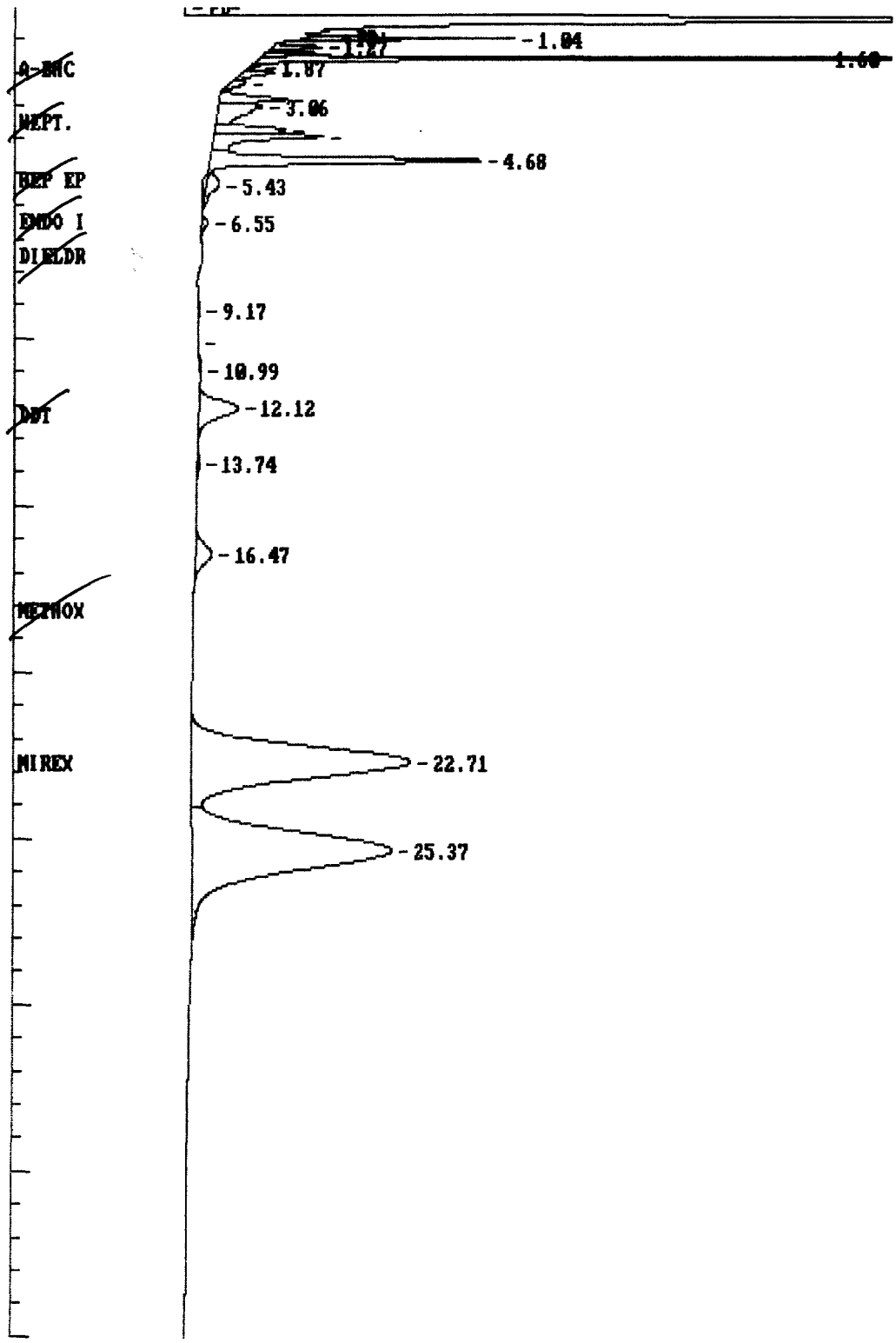
TOTAL AMOUNT = 0.1019

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
LINDANE	2.17	MIREX

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC018.ATB
Data File = U:1ALC018.PTS Printed on 11-13-1990 at 18:56:39
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-16-1990 16:17:55 Version 4.1 **********************
* Sample Name: 91FH30S86 SF 7465                  Data File: U:1ALC018      *
* Date: 11-13-1990 18:56:14 Method: U:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  18   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*           Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: CONFIRMATORY COLUMN                LPT1:        *    *
*************************************************************************
```

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.030000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.60	TCMX	0.0728	62.8167%	962637	188291	5.1	2	21	21	.4369	7.5674E-08
~~16~~	~~2.05~~	~~D-BHC~~	~~0.0105~~	~~9.0473%~~	~~88130~~	~~8425~~	~~10.5~~	~~2~~	~~21~~	~~21~~	~~4.007~~	~~1.1905E-07~~
~~14~~	~~6.55~~	~~A-CHLOR~~	~~0.0021~~	~~1.8461%~~	~~29851~~	~~1625~~	~~18.4~~	~~1~~	~~21~~	~~21~~	~~-.5588~~	~~7.1721E-08~~
~~15~~	~~9.17~~	~~DDD+END ALD~~	~~0.0030~~	~~2.5828%~~	~~18307~~	~~592~~	~~30.9~~	~~1~~	~~21~~	~~21~~	~~2.609~~	~~1.6361E-07~~
~~17~~	~~10.99~~	~~END SULFATE~~	~~0.0095~~	~~8.1702%~~	~~6941~~	~~201~~	~~34.5~~	~~1~~	~~21~~	~~21~~	~~.1014~~	~~1.3651E-06~~
~~19~~	~~13.74~~	~~END KETONE~~	~~0.0180~~	~~15.5368%~~	~~14049~~	~~415~~	~~33.8~~	~~2~~	~~21~~	~~21~~	~~-2.441~~	~~1.2825E-06~~
21	22.71	MIREX	1.0000	0.0000%	3570669	54355	65.7	2	21	21	0	2.8006E-07

TOTAL AMOUNT = 0.1160

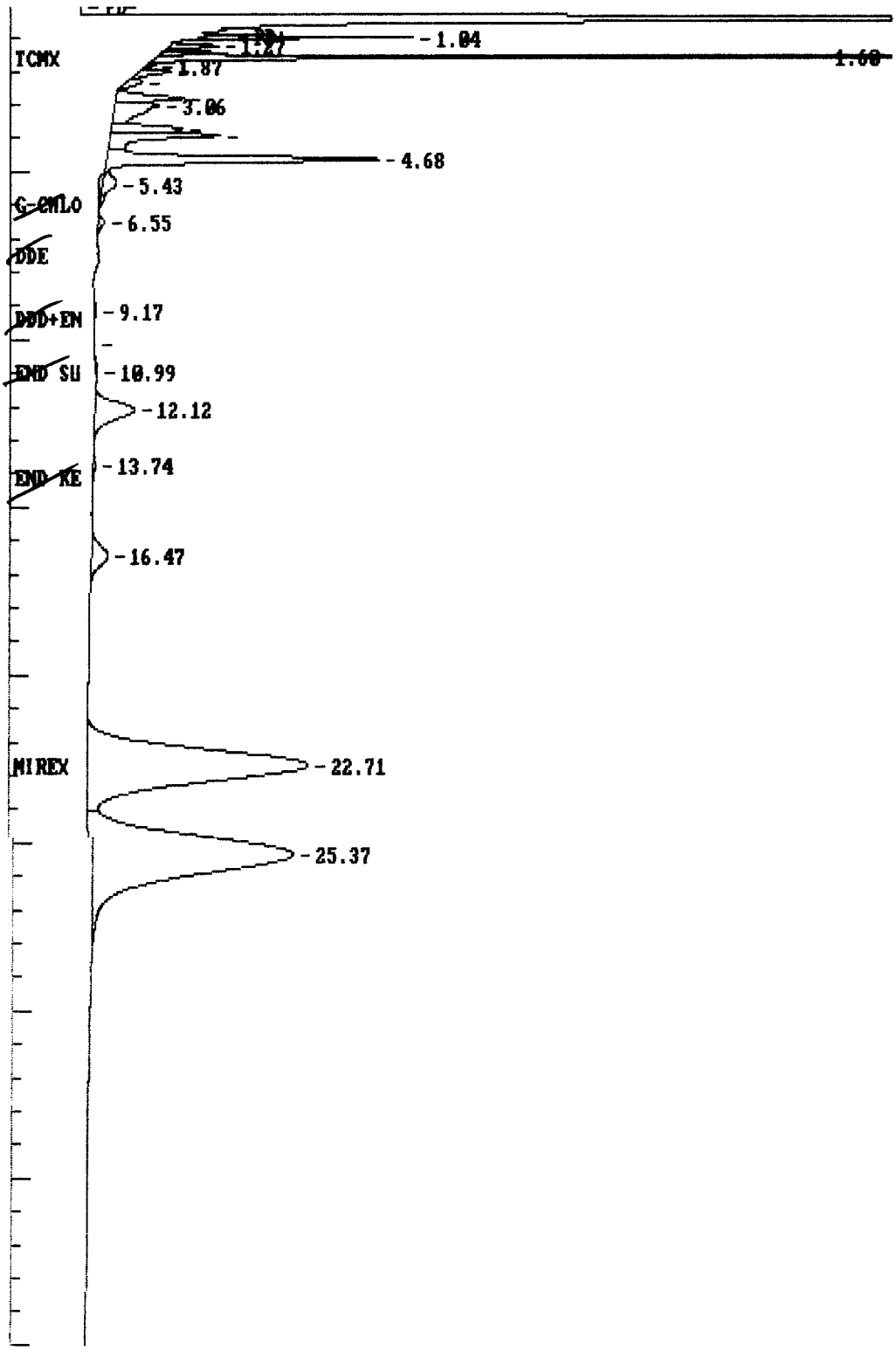
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
D-BHC	2.21	MIREX
G-CHLOR	5.96	MIREX
DDE	7.49	MIREX

VCM
11/19/90

SECONDARY COLUMN

Data File = U:1ALC018.PTS Printed on 11-16-1990 at 16:18:16
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VJM
11/19/90

PRIMARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-16-1990 15:16:29 Version 4.1 **********************
* Sample Name: 91FH30S87 SF 7465                Data File: U:2ALC014      *
* Date: 11-13-1990 15:59:41 Method: U:2PESTA 11-16-1990 14:10:05  #  129  *
* Interface: 0   Cycle#:  14   Operator DKC Channel#: 1    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF     Detector 1: ECD ~~PRIM~~ QUANT *
* Misc. Information: PRIMARY COLUMN                     PRIMARY COLUMN    *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:   40.00
Area reject:        0                        One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          0.880000
```

DKC 11/26/90

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~6~~	~~2.09~~	~~A BHC~~	~~0.0017~~	~~0.5380%~~	~~1579~~	~~252~~	~~6.3~~	~~1~~	~~22~~	~~22~~	~~-1.040~~	~~1.0627E-06~~
~~9~~	~~2.59~~	~~LINDANE~~	~~0.0032~~	~~1.0403%~~	~~4407~~	~~414~~	~~10.6~~	~~1~~	~~22~~	~~22~~	~~-3.204~~	~~7.3643E-07~~
~~11~~	~~3.27~~	~~HEPT~~	~~0.0056~~	~~1.7872%~~	~~1383~~	~~250~~	~~5.5~~	~~1~~	~~22~~	~~22~~	~~-1.958~~	~~-4.0521E-06~~
~~13~~	~~4.02~~	~~ALDRIN~~	~~0.0049~~	~~1.5811%~~	~~8878~~	~~1007~~	~~8.8~~	~~1~~	~~22~~	~~22~~	~~-.2847~~	~~5.5561E-07~~
~~17~~	~~7.43~~	~~ENDO I~~	~~0.0123~~	~~3.9355%~~	~~77817~~	~~2979~~	~~26.1~~	~~2~~	~~22~~	~~22~~	~~-2.311~~	~~1.5777E-07~~
~~18~~	~~10.97~~	~~ENDRIN~~	~~0.0136~~	~~4.3714%~~	~~6798~~	~~304~~	~~22.4~~	~~1~~	~~22~~	~~22~~	~~2.427~~	~~2.0061E-06~~
22	24.62	MIREX	1.0000	0.0000%	2473523	41413	59.7	1	22	22	0	4.0428E-07
~~28~~	~~30.04~~	~~METHOXYCHLOR~~	~~0.2818~~	~~90.3210%~~	~~979458~~	~~13306~~	~~73.2~~	~~1~~	~~22~~	~~22~~	~~-2.859~~	~~2.8768E-07~~

TOTAL AMOUNT = 0.3120

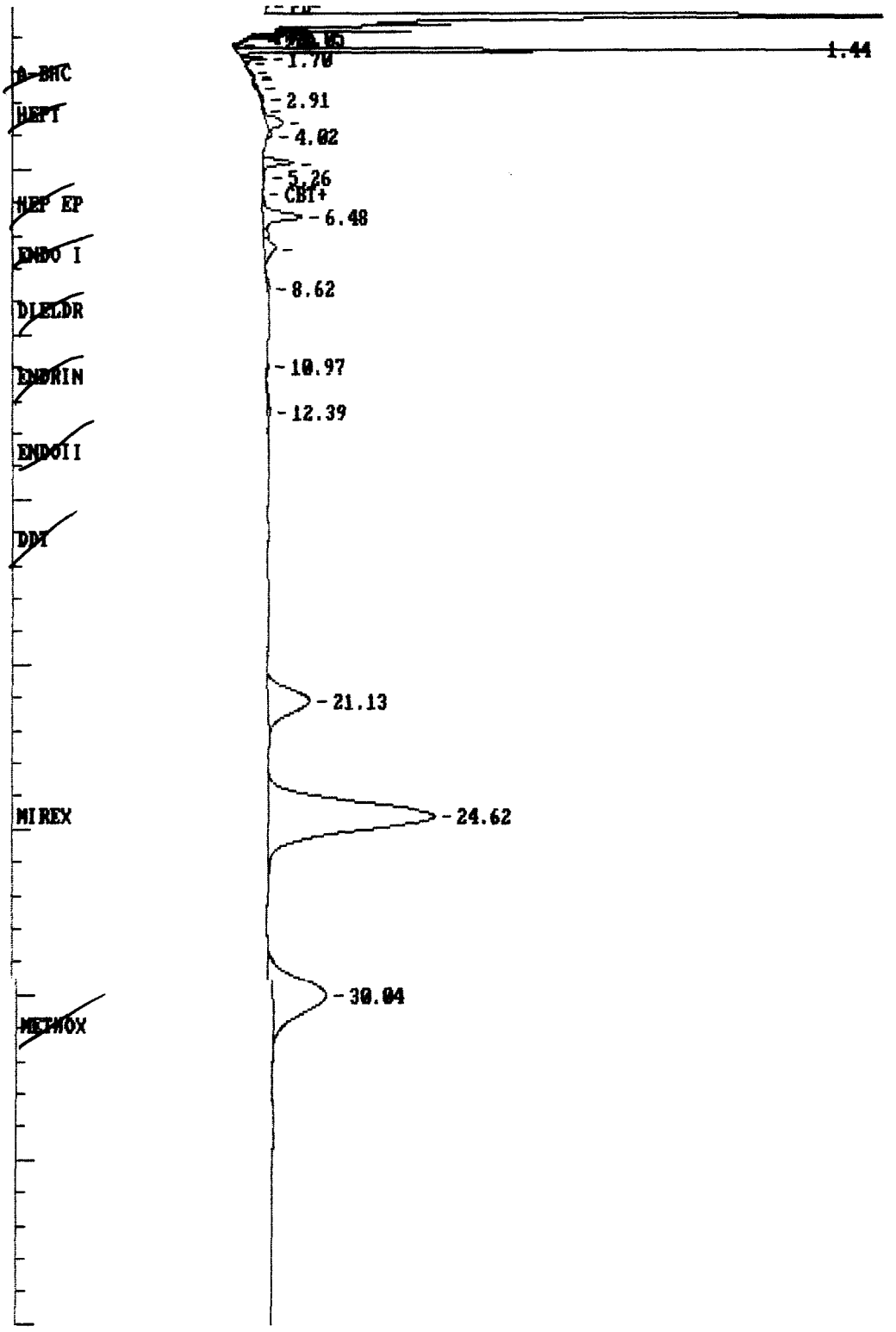
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEP EPOX	6.03	MIREX
DIELDRIN	9.28	MIREX
ENDOII	13.59	MIREX
DDT	16.23	MIREX

VSM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC014.PTS Printed on 11-16-1990 at 12:46:37
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VCM
11/19/90

PRIMARY COLUMN

****** INTERNAL STANDARD TABLE ******

********** 11-16-1990 14:59:56 Version 4.1 **********

* Sample Name: 91FH30S87 SF 7465 Data File: U:2ALC014 *
* Date: 11-13-1990 15:59:41 Method: W:2PESTB 11-07-1990 14:16:50 # 211 *
* Interface: 0 Cycle#: 14 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~PRIM~~ QUANT * DKC
* Misc. Information: PRIMARY COLUMN PRIMARY COLUMN * 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 0.880000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.44	TCMX	0.0778	22.9828%	618087	153660	4.0	2	18	18	-.2797	1.2586E-07
~~6~~	~~2.91~~	~~B-BHC~~	~~0.0098~~	~~2.8847%~~	~~2535~~	~~414~~	~~6.1~~	~~1~~	~~18~~	~~18~~	~~-4.272~~	~~-3.8519E-06~~
~~8~~	~~3.66~~	~~D-BHC~~	~~0.0166~~	~~4.9067%~~	~~98828~~	~~4616~~	~~21.4~~	~~2~~	~~18~~	~~18~~	~~3.030~~	~~1.6805E-07~~
~~[illegible]~~	~~6.48~~	~~G-CHLORDANE~~	~~0.0213~~	~~6.3012%~~	~~185842~~	~~9933~~	~~18.7~~	~~2~~	~~18~~	~~18~~	~~-3.785~~	~~1.1476E-07~~
~~[illegible]~~	~~[illegible]43~~	~~A-CHLORDANE~~	~~0.0056~~	~~1.6429%~~	~~77817~~	~~2979~~	~~26.1~~	~~2~~	~~18~~	~~18~~	~~1.132~~	~~7.1462E-08~~
~~14~~	~~8.82~~	~~DDE~~	~~0.0070~~	~~2.0643%~~	~~15971~~	~~592~~	~~27.0~~	~~1~~	~~18~~	~~18~~	~~-2.185~~	~~4.3730E-07~~
~~17~~	~~21.13~~	~~END SULFATE~~	~~0.0797~~	~~23.5451%~~	~~514157~~	~~10450~~	~~49.2~~	~~1~~	~~18~~	~~18~~	~~-1.577~~	~~1.5500E-07~~
18	24.62	MIREX	1.0000	0.0000%	2473523	41413	59.7	1	18	18	0	4.0428E-07
~~19~~	~~30.04~~	~~END KETONE~~	~~0.1403~~	~~41.4419%~~	~~979458~~	~~13386~~	~~73.2~~	~~1~~	~~18~~	~~18~~	~~3.379~~	~~1.4321E-07~~

TOTAL AMOUNT = 0.3385

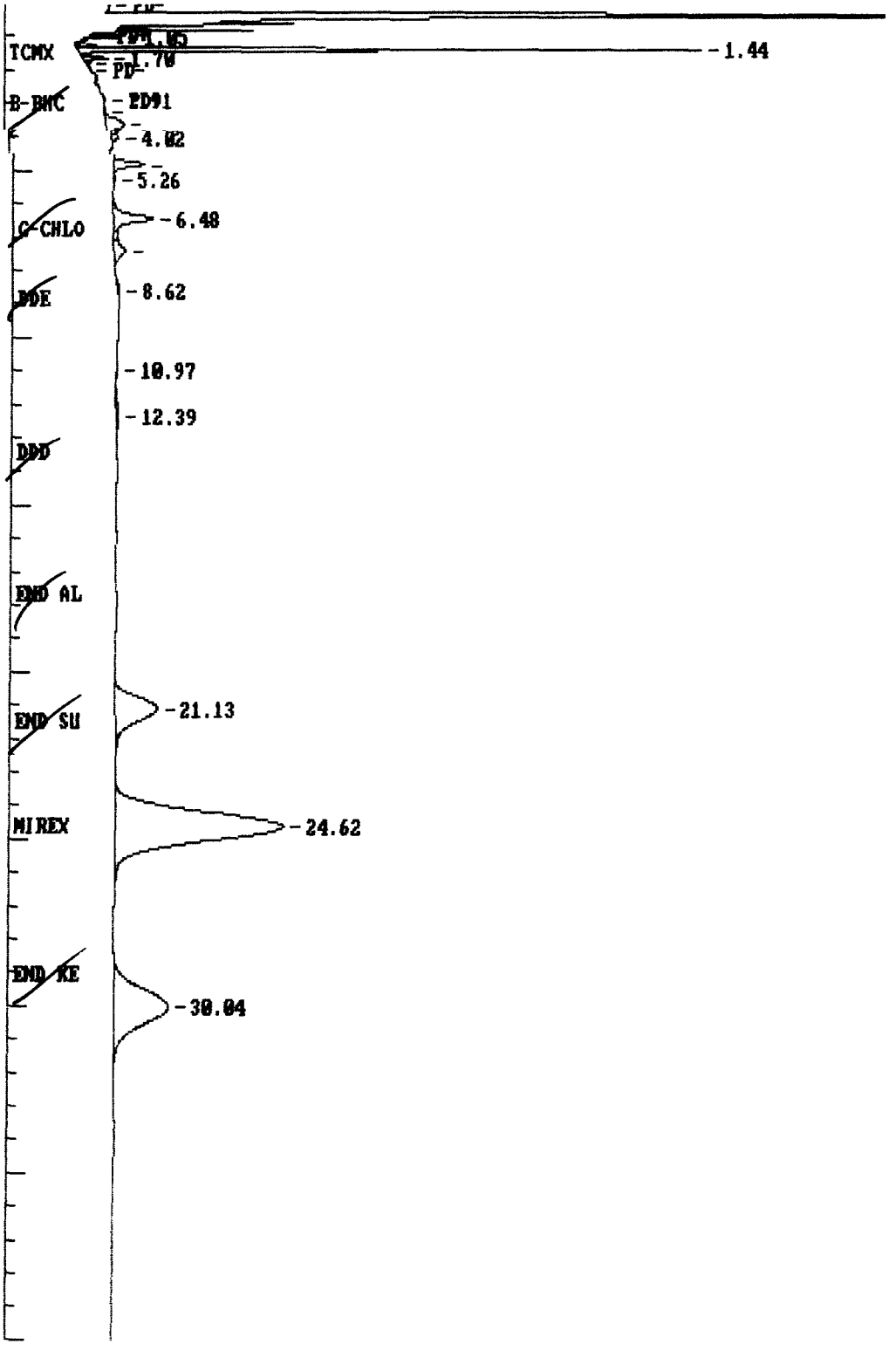
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DDD	13.44	MIREX
END ALDEHYDE	17.63	MIREX

VCM
11/19/90

PRIMARY COLUMN

Data File = U:2ALC014.PTS Printed on 11-16-1990 at 15:00:18
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90

SECONDARY COLUMN

Output redirected to LPT1:
Output redirected to LPT1:
91FH30S87 Processed: 11-13-1990 15:15:30, segment 8, cycle 13
RAW DATA SAVED IN FILE U:1ALCO13.PTS Second Channel Stored in U:2ALCO13.PTS

***** INTERNAL STANDARD TABLE *****

********** 11-13-1990 15:15:41 Version 4.1 **********
* Sample Name: 91FH30S87 SF 7465 Data File: U:1ALCO13 *
* Date: 11-13-1990 15:15:36 Method: U:1PESTA 11-07-1990 09:11:53 # 168 *
* Interface: 0 Cycle#: 13 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *
****
* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: CONFIRMATORY COLUMN LPT1: * *
****

DKC 11/26/90

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 0.880000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/L~~ ML/L UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~[illegible]~~	~~1.89~~	~~A-BHC~~	~~0.0101~~	~~6.8636%~~	~~24126~~	~~3386~~	~~7.1~~	~~4~~	~~17~~	~~17~~	~~.3062~~	~~4.1975E-07~~
~~[illegible]~~	~~2.19~~	~~LINDANE~~	~~0.0060~~	~~4.0657%~~	~~4169~~	~~716~~	~~5.8~~	~~1~~	~~17~~	~~17~~	~~-.5814~~	~~1.4387E-06~~
~~[illegible]~~	~~5.18~~	~~HEP EPOX~~	~~0.0036~~	~~2.4123%~~	~~2277~~	~~226~~	~~10.1~~	~~1~~	~~17~~	~~17~~	~~-1.847~~	~~1.5634E-06~~
~~[illegible]~~	~~7.46~~	~~DIELDRIN~~	~~0.0099~~	~~6.7327%~~	~~2922~~	~~177~~	~~16.5~~	~~1~~	~~17~~	~~17~~	~~-2.114~~	~~3.3992E-06~~
~~16~~	~~12.31~~	~~DDT~~	~~0.1179~~	~~79.9257%~~	~~633429~~	~~16848~~	~~37.6~~	~~1~~	~~17~~	~~17~~	~~-.9844~~	~~1.8617E-07~~
17	22.98	MIREX	1.0000	0.0000%	3508536	53004	66.2	2	17	17	0	2.8502E-07

TOTAL AMOUNT = 0.1475

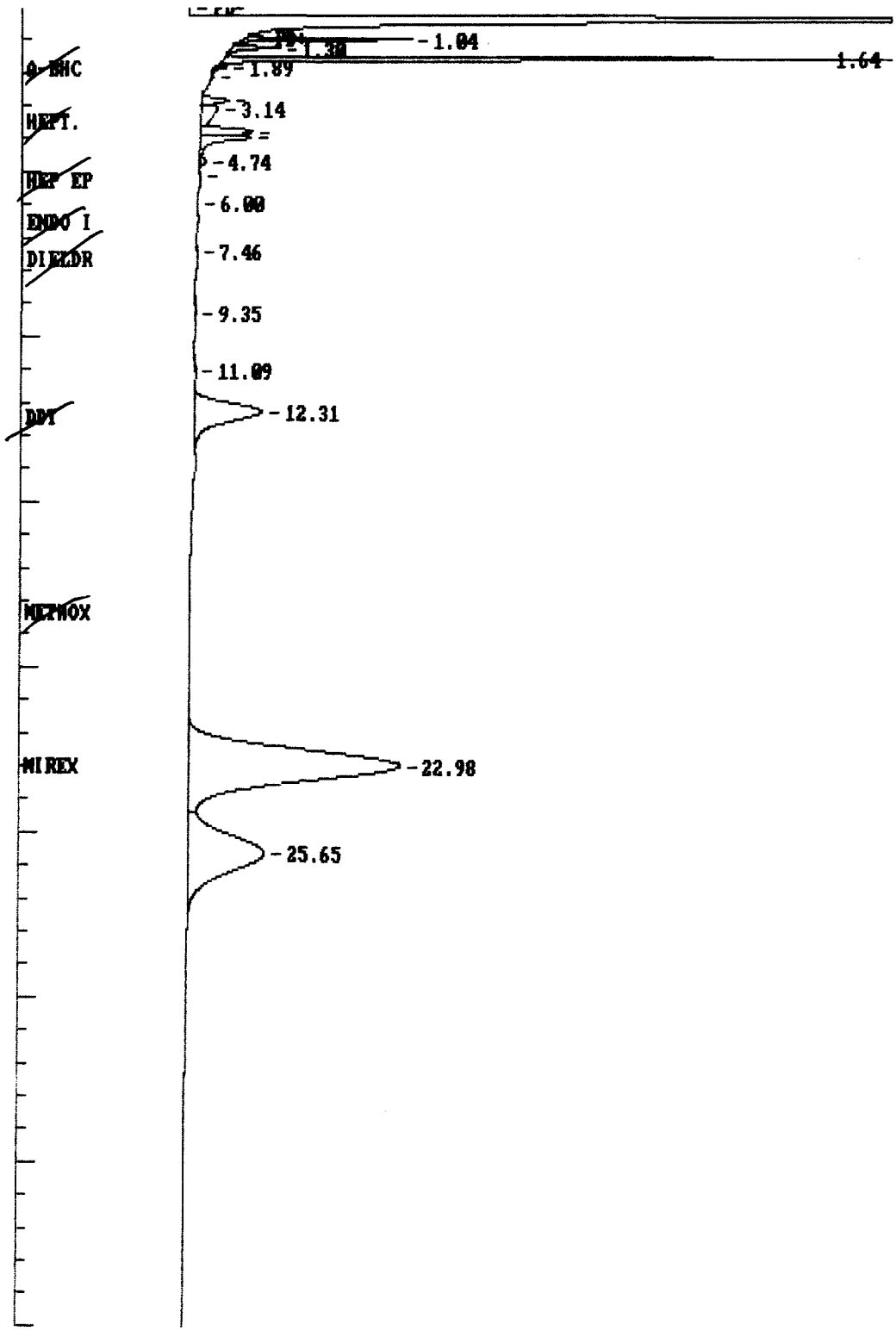
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEPT.	3.51	MIREX
ALDRIN	4.35	MIREX
ENDO I	6.55	MIREX
EN + EN II	8.62	MIREX
METHOXYCHLOR	18.33	MIREX

KM
11/19/90

SECONDARY COLUMN

Areas, times, and heights stored in: U:1ALC013.ATB
Data File = U:1ALC013.PTS Printed on 11-13-1990 at 15:16:02
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VCM
11/19/90

SECONDARY COLUMN

```
****** INTERNAL STANDARD TABLE ******
******************** 11-16-1990 16:16:40 Version 4.1 **********************
* Sample Name: 91FH30S87 SF 7465                    Data File: U:1ALC013     *
* Date: 11-13-1990 15:15:36 Method: U:1PESTB  11-07-1990 10:19:54  #  170 *
* Interface: 0   Cycle#:  13   Operator DKC Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100              *
*****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                     *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT *  DKC
* Misc. Information: CONFIRMATORY COLUMN                  LPT1:             *  *11/26/90
*****************************************************************************
Starting Delay:    0.00                          Ending retention time:    40.00
Area reject:        0                            One sample per    1.002 sec.
Amount injected:        1.00                     Dilution factor:        10.00
Internal Standard Amount:  1
Sample Weight:          0.880000
```

PEAK NUM	RET. TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL	REF PEAK	INT.STD. PEAK	% DELTA RET TIME	CONC/AREA
3	1.64	TCMX	0.0740	70.2048%	820890	174410	4.7 3	17	17	1.337	9.0142E-08
~~5~~	~~2.19~~	~~B-BHC~~	~~0.0154~~	~~14.5891%~~	~~4169~~	~~716~~	~~5.8 1~~	~~17~~	~~17~~	~~2.050~~	~~3.6881E-06~~
~~12~~	~~6.00~~	~~G-CHLOR~~	~~0.0012~~	~~1.1673%~~	~~687~~	~~63~~	~~10.8 1~~	~~17~~	~~17~~	~~.5404~~	~~1.7900E-06~~
~~13~~	~~7.46~~	~~DDE~~	~~0.0040~~	~~3.7783%~~	~~2922~~	~~177~~	~~16.5 1~~	~~17~~	~~17~~	~~1.472~~	~~1.3627E-06~~
~~14~~	~~9.35~~	~~DDD+END ALD~~	~~0.0026~~	~~2.4853%~~	~~12299~~	~~313~~	~~39.3 1~~	~~17~~	~~17~~	~~1.813~~	~~2.1299E-07~~
~~15~~	~~11.09~~	~~END SULFATE~~	~~0.0107~~	~~10.1099%~~	~~4070~~	~~135~~	~~30.1 1~~	~~17~~	~~17~~	~~-.1803~~	~~2.6181E-06~~
17	22.98	MIREX	1.0000	0.0000%	3508536	53004	66.2 2	17	17	0	2.8502E-07

TOTAL AMOUNT = 0.1054

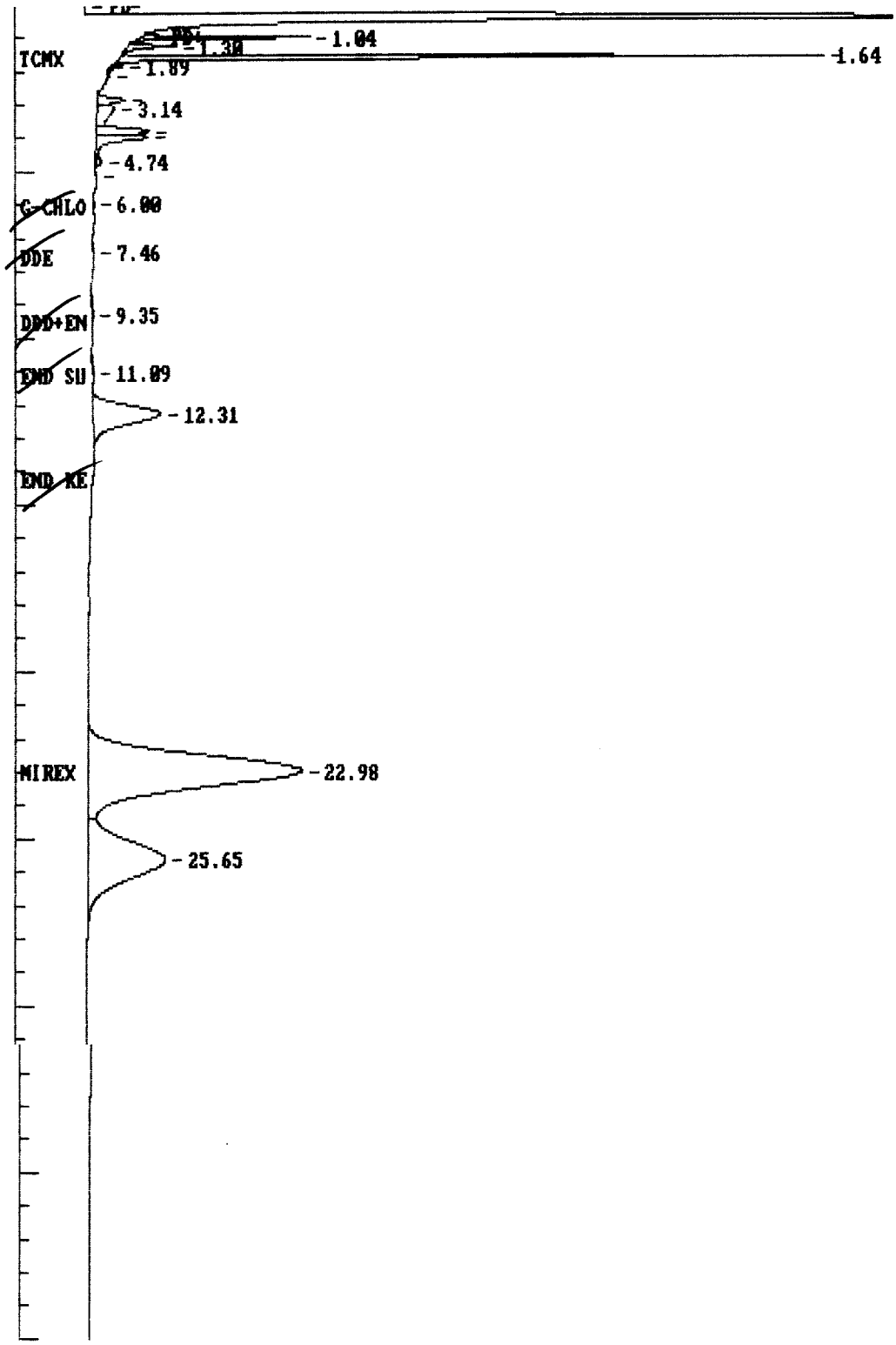
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	2.00	MIREX
A-CHLOR	6.66	MIREX
END KETONE	14.25	MIREX

KM
11/19/90

SECONDARY COLUMN

Data File = U:1ALC013.PTS Printed on 11-16-1990 at 16:17:02
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/19/90