FINAL REPORT
PCB CONTAMINATED SOIL REMOVAL
FORMER BUILDING NO. 9
ROCKY POINT, LONG ISLAND, NEW YORK

DECEMBER 1990

RECEIVED
APR - 1 1991
HAZARDOUS WASTE REMEDIATION
NYSDEC REGION 1

Prepared For:

GENERAL ELECTRIC, INC.
REAL ESTATE AND CONSTRUCTION OPERATION
1000 FIRST AVENUE
KING OF PRUSSIA, PENNSYLVANIA 19406

Prepared By:

McLAREN/HART ENVIRONMENTAL ENGINEERING CORPORATION
PENN CENTER WEST III, SUITE 106
PITTSBURGH, PENNSYLVANIA 15276

PROFESSIONAL ENGINEERING CERTIFICATION

I Vincent S. Wroniewicz, Jr., a New York licensed Professional Engineer, Certify that Persons under my supervision, have made visual inspections of the Closure Remediation Activities for the former Building No. 9 at the Rocky Point State Gameland located on Long Island, New York, and that the Remediation Activities were performed in accordance with the approved work plan, "PCB Contaminated Soil Removal, Former Building No. 9", prepared by McLaren/Hart Engineers, Inc. dated October 1990.

Additionally, I certify under penalty of law that I have personally examined, and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete.

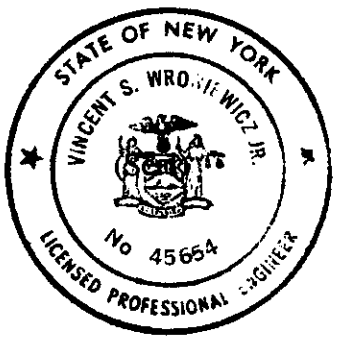
Vincent S. Wroniewicz, Jr.

March 7, 1991
(Date)

New York P.E. License No. 45654
Professional Engineering License Number

6981 N. Park Drive, Suite 401E
Pennsauken, New Jersey 08109
(Business Address)

(609) 663-0440
(Telephone Number)



(ENGRG/8-81)

TABLE OF CONTENTS

		Page No.
I.	INTRODUCTION.	1
II.	SUMMARY OF ACTIVITIES	2
III.	FIELD AND LABORATORY SOIL ANALYTICAL RESULTS.	4
	A. FIELD TESTING RESULTS	4
	B. FINAL CONFIRMATION ANALYTICAL RESULTS	5
IV.	BACKFILLING	6

LIST OF APPENDICIES

APPENDIX A: ANALYTICAL DATA

LIST OF FIGURES

FIGURE 1: POST-EXCAVATION SAMPLE LOCATION MAP

LIST OF TABLES

TABLE 1: POST EXCAVATION SUMMARY OF FIELD AND LABORATORY PCB ANALYSIS

TABLE 2: SUMMARY OF PCB FIELD TEST - RESULTS OF SOIL STOCKPILES

TABLE 3: SUMMARY OF PCB FIELD TEST - RESULTS OF CONCRETE FOOTINGS AND WALL SECTIONS

FINAL REPORT
PCB CONTAMINATED SOIL REMOVAL
FORMER BUILDING NO. 9
ROCKY POINT, LONG ISLAND, NEW YORK

DECEMBER 1990

I. INTRODUCTION

Hart Engineers, Inc., a wholly-owned subsidiary of McLaren/Hart Environmental Engineering Corporation (McLaren/Hart) is pleased to present this report documenting the removal of soil containing polychlorinated biphenyls (PCBs) within the boundaries of former Building No. 9 located on the New York State Gamelands, Rocky Point, Long Island, New York. This work was conducted on behalf of General Electric, Inc. Real Estate and Construction Operation and in cooperation with O. H. Materials, Inc. (OHM) and New York Department of Environmental Conservation (NYDEC). The purpose of the work was to remove and properly dispose of soil containing PCBs underlying former Building No. 9 to a clean-up level at or below 10 ppm. The guidelines governing this removal action were outlined in the Work Plan submitted to NYDEC on October 4, 1990 and approved by NYDEC on October 26, 1990.

This removal action, overseen by McLaren/Hart, included initial and post-excavation field sampling and analysis, final confirmatory sampling, excavation and disposal of soil containing PCBs. The excavation and disposal of material was conducted by OHM; final confirmatory analysis was undertaken by NYDEC.

The purpose of this report is to provide a complete description of the soil excavation and backfilling activities, the results of field sampling and analysis, and the final confirmatory sampling and analysis.

II. SUMMARY OF ACTIVITIES

During the period between October 30, 1990 through November 14, 1990, the soil removal action was completed. Initial activities included the delineation of contaminated versus clean areas within the boundary of former Building No. 9. This was accomplished by reviewing analytical results of samples collected during the previous excavation in September and October of 1989. This review indicated that the area adjacent to the southwall contained PCBs in soil below the clean-up standard of 10 ppm. Approval to leave this area out of the excavation activities was granted by NYDEC on October 30, 1990. Figure 1 illustrates the "clean" unexcavated area.

The initial excavation, conducted by OHM, consisted of removing the clean sand cover soil previously placed along with a layer of visqueen over the area following the last excavation. The removed "clean" sand cover soil was staged adjacent to the excavated area, separate from the disposal stockpile, for possible reuse as backfill. This material was removed to approximately 6-8 inches above the previously installed visqueen barrier.

All remaining material was removed in successive lifts, approximately 2-4 feet in depth and staged on a disposal stockpile. The disposal stockpile was situated on a double layer of visqueen located adjacent to the excavation. After the removal of each lift, field testing for PCBs content was conducted using a Dexsil L2000 PCB Field Analyzer. If a sample contained PCBs at levels exceeding the clean-up standard of 10 ppm, then an area approximately 10 foot x 10 foot x 2-1/2 foot deep surrounding this sample point was removed. Test Results are presented in Table 1. Section III provides additional details of the sampling and analysis.

Stockpiles of "clean" sand cover soil initially removed from the excavation were field sampled and tested for PCBs content. Soil stockpiles with samples containing PCBs less than 10 ppm were used for backfill. Results of the field test, however, indicate that only two samples contained <10 ppm of PCBs. Table 2 summarizes the results of the "clean" stockpile sampling and analysis. Soil containing levels of PCBs above the 10ppm clean-up level were removed for disposal.

Six concrete footings which were removed from the excavation area were also field tested for PCBs content. Soil and concrete samples were collected by scraping the sides and bottom of each footing. Results from the field test are presented in Table 3. If the sample contained greater than 10 ppm PCBs, the sides and bottom of the respective footing were chipped using a hoe-ram. Chipped pieces of concrete were removed for disposal and the newly exposed footing sides and bottom were resampled. All six footings were cleaned to levels below 10 ppm and placed in the excavation prior to backfilling.

A total of 1,100 tons, approximately 800 yd^3 of material was removed and transported to USPCI, Grayback Mt. Facility, Lake Point, Utah for disposal. The transporter selected by OHM was Goodell Trucking, Fairview, Pennsylvania, a licensed special waste hauler. A hazardous waste manifest was completed and signed for each vehicle prior to departure from the site. A total of 49 trucks were used for transport.

III. FIELD AND LABORATORY SOIL ANALYTICAL RESULTS

A. FIELD TESTING RESULTS

Following removal of each successive lift floor soil samples were collected and analyzed for PCBs content using a L2000 Dexsil PCBs analyzer. Post-excavation sample locations are illustrated in Figure 1. Three wall samples were also collected from an area on the north wall, level with the floor. The results of this post-excavation sampling are presented in Table 1 under Round 1 data. All soil samples were collected using previously decontaminated stainless steel spoons and bowls and transferred to a pre-cleaned laboratory sample jar. After sampling, the outside of the jar was cleaned of excess soil. Soil samples were immediately placed on ice and cooled to approximately $4^{o}C$ for preservation prior to analytical analysis.

In areas where concentrations of PCBs in soil exceeded the 10 ppm clean-up standard, an additional section of soil 10 feet by 10 feet by 2 to 2-1/2 feet in depth was removed. These sampling points were then resampled and field analyzed. The results of the analysis are presented in Table 1 under data Round 2.

Inability to minimize cross contamination of clean areas by excavating equipment necessitated the removal and disposal of approximately 6 inches of soil from the clean areas. These areas were field sampled and tested. Results are also found in Table 1 under Round 2 data.

Upon completion of the soil removal from area A3, the entire north wall, and approximately 100 yards of previously excavated material from the disposal stockpile collapsed into the excavation area. As a result, five areas previously sampled were resampled following removal of the collapsed wall and soil from the excavation area (Table 1). Samples were also collected from the north wall and analyzed to determine how much, if any, of the wall would have to be transported for disposal. The wall footing was removed for disposal and the remaining wall was broken into a number of sections. Ten (10) of the sections were analyzed for PCBs content. Samples were collected by scraping both the sides and the bottom of each wall section. Field test results indicated that

the majority of the wall sections contained greater than 10 ppm PCBs. The wall sections were then removed for disposal. Results of the field testing are presented in Table 3.

An additional sidewall sample was analyzed at the request of NYDEC. A soil sample was collected from the discolored soil located on the east sidewall (SW-1). No concentrations of PCBs were present above the instrument detection limit. Test results are presented in Table 1.

B. FINAL CONFIRMATION ANALYTICAL RESULTS

Upon completion of the re-excavation and field analysis, selected soil samples were submitted by NYDEC as final confirmatory samples. Seven samples were selected and submitted for SW-846 Method 8080 PCBs analysis on November 2, 1990. Samples A2-03, B5-03, and A3-04 were sent to NYDEC laboratories in Albany, New York and samples B4-02, C2-05, C3-02, and W2-03 were submitted to Weston Laboratories in Lionville, Pennsylvania. Appropriate chain-of-custody forms were completed by NYDEC personnel and accompanied each shipment.

Results of the analytical analysis were received on November 7, 1990 and are presented in Table 1 under Round 1 of the Final Confirmatory Section. Complete analytical packages are included in Appendix B. Two of the seven soil samples contained concentrations of PCBs above the clean-up standards of 10 ppm. On November 8, 1990, additional soil was removed from these two areas, B4 and C2, and re-analyzed using the PCBs field analyzer. Results of these field tests are found in Table 1 under Round 3 for B4 and Round 6 for C2 in the Field Analysis Section. Duplicate samples were also run to test for reproducibility.

Samples B4-03 and C2-06 were re-submitted for final confirmation sampling on November 8, 1990. Results were received on November 12, 1990 and indicate that no PCBs concentrations above the clean-up standards were present. Results are presented in Table 1 under Round 2 of the Final Confirmatory Section.

(HR-C-46/5)

IV. BACKFILLING

Approval to backfill the excavation was granted by NYDEC following receipt of results from the second round of final confirmatory samples. Clean silica sand and gravel from an on-site borrow area were used to backfill the excavation. At the request of NYDEC, visqueen was placed in the bottom of the excavation prior to backfill. Backfilling was completed on November 21, 1990.

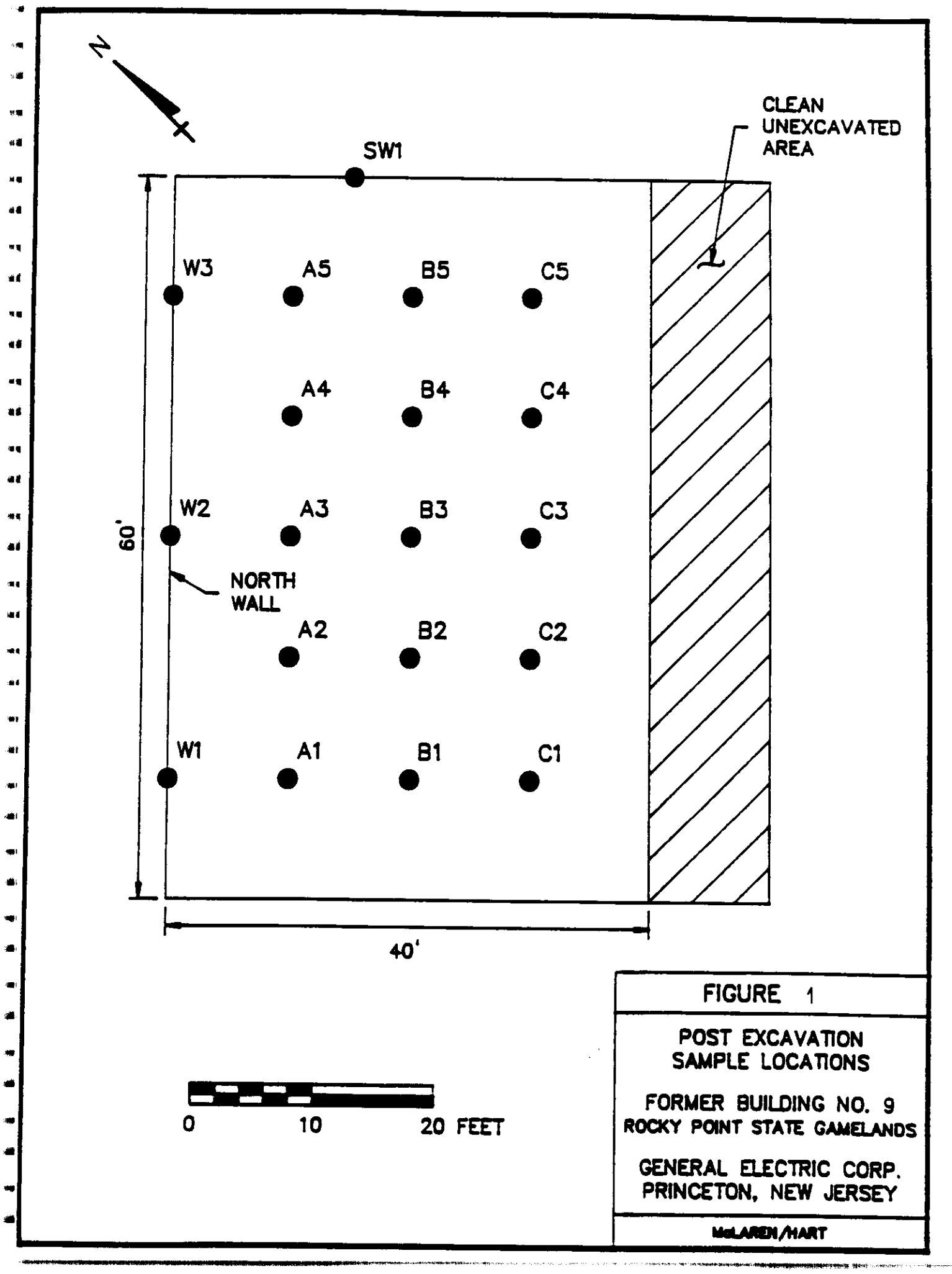


FIGURE 1

POST EXCAVATION
SAMPLE LOCATIONS

FORMER BUILDING NO. 9
ROCKY POINT STATE GAMELANDS

GENERAL ELECTRIC CORP.
PRINCETON, NEW JERSEY

McLAREN/HART

TABLE 1

POST EXCAVATION
SUMMARY OF FIELD AND LABORATORY PCB ANALYSIS
RCA ROCKY POINT
NOVEMBER 1990

	FIELD ANALYSIS (1)						FINAL CONFIRMATORY (2)	
	ROUND 1 (ppm)	ROUND 2 (ppm)	ROUND 3 (ppm)	ROUND 4 (ppm)	ROUND 5 (ppm)	ROUND 6 (ppm)	ROUND 1 (ppm)	ROUND 2 (ppm)
A1	7.9	5.0	6.5 *	--	--	--	--	--
A2	14.9	5.5	6.1 *	--	--	--	N.D.	--
A3	610	105.9	5.3	< 5.0 *	--	--	0.078	--
A4	86.3	6.0	--	--	--	--	--	--
A5	8.0	< 5.0 *	--	--	--	--	--	--
B1	8.2	4.4	--	--	--	--	--	--
B2	8.6	4.3	< 5.0 *	--	--	--	--	--
B3	5.1	4.0	6.2 *	--	--	--	--	--
B4	64.5	5.7	5.2/< 5.0 (3)	--	--	--	23	N.D.
B5	6.3	36.8	8.8	--	--	--	N.D.	--
C1	6.1	5.2	--	--	--	--	--	--
C2	79.3	32.5	93.4	38.9	11.4/4.5 (3)	5.7/6.1 (3)	190	0.31
C3	127.3	4.4	--	--	--	--	0.33	--
C4	2.2	4.9	--	--	--	--	--	--
C5	2.3	8.6	--	--	--	--	--	--
W1	6.0	--	--	--	--	--	--	--
W2	555	> 1900	< 5.0	--	--	--	N.D.	--
W3	8.7	--	--	--	--	--	--	--
SW1	25.0	--	--	--	--	--	--	--

NOTES:
* AREAS RESAMPLED AFTER WALL COLLAPSE
(1) USING A L2000 DEXSIL FIELD PCB ANALYZER
(2) 48 HOUR TURNAROUND - METHOD 8080
(3) DUPLICATE ANALYSIS
N.D. - BELOW INSTRUMENT DETECTION LIMITS
(RCARP3.WK1)

TABLE 2

SUMMARY OF PCB FIELD TEST RESULTS OF SOIL STOCKPILES

Sample Name	Concentration (ppm)
SP-1	7.7
SP-2	10.9
SP-3	9.9
SP-4	23.5
SP-5	23.3
SP-6	23.2

Note: This material was disposed at USPCI, Grayback Mt. Facility, Lake Point, Utah.

(HR-C-47)

TABLE 3

SUMMARY OF FIELD TEST
RESULTS OF CONCRETE FOOTINGS AND WALL SECTIONS

FOOTINGS

Sample Name	Round 1 (ppm)	Round 2 (ppm)	Round 3 (ppm)	Round 4 (ppm)
F-1	<5.0	--	--	--
F-2	<5.0	--	--	--
F-3	>1000	248	5.0	--
F-4	162	40.2	<5.0	--
F-5	9.9	--	--	--
F-6	>1000	78.8	135.6	8.5

WALL

Sample Name	Round 1 (ppm)
CW-1	98.2
CW-2	73.0
CW-3	6.0
CW-4	32.5
CW-5	420.3
CW-6	9.8
CW-7	16.7
CW-8	>200
CW-9	49.5
CW-10	>300

Notes: 1) All footing surfaces were chipped with a hoe-ram. Footings with PCB levels <10 ppm were placed in the excavation prior to backfill. Chipped pieces of concrete were disposed of at USPCI, Grayback Mt. Facility, Lake Point, Utah.

2) Wall sections were disposed of at USPCI, Grayback Mt. Facility, Lake Point, Utah.

(HR-C-47/2)

[redacted]

APPENDIX A

ANALYTICAL DATA

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233

Thomas C. Jorling
Commissioner

TO: John CoNOVER Reg 1

FROM: FRED WOODWARD

DATE: 11/7/90

NUMBER OF PAGES: 6

FOR VERIFICATION OR PROBLEMS CALL: Jim AT 518-457-3252

THIS MESSAGE IS SENT FROM PITNEY BOWES 9000

OUR RECEIVING TELECOPIER - RAPICOM 230 - (518) 457-1088

N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF HAZARDOUS WASTE REMEDIATION

BUREAU OF HAZARDOUS SITE CONTROL

****
* ANALYTICAL REPORT *
****

SITE NAME:RCA ROCKY POINT

SITE CODE: 152011

SUBMITTED BY: JOHN CONOVER

DATE OF REPORT: 11/7/90 DATA RELEASED BY:F.WOODWARD

REPORT QUALIFIERS:

FIELD ID	LAB ID	
LDG.#9 1634B5	190-306-01	PCB
LDG.#9 1634A3	190-306-02	PCB
LDG.#9 1634A2	190-306-03	PCB

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY SAMPLE SUBMISSION

SITE NAME: RCA ROCKY POINT

REGISTRY NUMBER:152011 SAMPLE SUBMISSION DATE: 11/9/90

SAMPLES SUBMITTED BY: JOHN CONOVER T&A code:1634

TOTAL NUMBER OF SAMPLES SUBMITTED:3

********* ORGANIC SAMPLES BY MATRIX *********

WATER: VOA: BNA: PEST/PCB:

SOIL: VOA: BNA: PEST/PCB: 3 *

OTHER: VOA: PEST/PCB:

OTHER:

********* METALS SAMPLES BY MATRIX *********

WATER: SOIL: OTHER:

METALS SELECTED:

==========

COMMENTS: * For PCB only. Two day turnaround

Phone #(516)-751-2617

==========

********** REPORT INFORMATION **********

VOLATILE DATA REPORTED ___/___/___ BY_____

BNA DATA REPORTED ___/___/___ BY_____

PEST/PCB DATA REPORTED _11/_7_/_90 BY_F. WOODWARD_____

METALS DATA REPORTED ___/___/___ BY_____

REPORT COMPLETED AND FILED ___/___/___ BY_____

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MOBILE LABORATORY PCB ANALYSIS

SITE NAME: RCA ROCKY POINT

SITE CODE: 152011

SAMPLE NUMBER:190-306-02 FIELD ID:BLDG #9 1634A3

DATE RECEIVED:11/5/90 ANALYSIS DATE:11/6/90

ARCHIVE NUMBER:P30602 MATRIX:SOIL % SOLID:NA

**** AROCLOR - 1016 ****		
GAS CHROMATOGRAPH RESULTS:	ND	DETECTION LIMIT 30 PPB
MASS SPECTROMETER RESULTS:	ND	
**** AROCLOR - 1221 ****		
GAS CHROMATOGRAPH RESULTS:	ND	DETECTION LIMIT 30 PPB
MASS SPECTROMETER RESULTS:	ND	
**** AROCLOR - 1232 ****		
GAS CHROMATOGRAPH RESULTS:	ND	DETECTION LIMIT 30 PPB
MASS SPECTROMETER RESULTS:	ND	
**** AROCLOR - 1242 ****		
GAS CHROMATOGRAPH RESULTS:	ND	DETECTION LIMIT 30 PPB
MASS SPECTROMETER RESULTS:	ND	
**** AROCLOR - 1248 ****		
GAS CHROMATOGRAPH RESULTS:	ND	DETECTION LIMIT 30 PPB
MASS SPECTROMETER RESULTS:	ND	
**** AROCLOR - 1254 ****		
GAS CHROMATOGRAPH RESULTS:	ND	DETECTION LIMIT 30 PPB
MASS SPECTROMETER RESULTS:	ND	
**** AROCLOR - 1260 ****		
GAS CHROMATOGRAPH RESULTS:	POS	DETECTION LIMIT 30 PPB
MASS SPECTROMETER RESULTS:	78 ug/Kg	wet weight

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MOBILE LABORATORY PCB ANALYSIS

sampled 11/2/90

SITE NAME: RCA ROCKY POINT

SITE CODE: 152011

SAMPLE NUMBER: 190-306-03 FIELD ID: BLDG #9 1634A2

DATE RECEIVED: 11/5/90 ANALYSIS DATE: 11/6/90

ARCHIVE NUMBER: P30603 MATRIX: SOIL % SOLID: NA

==========

**** AROCLOR - 1016 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1221 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1232 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1242 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1248 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1254 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1260 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MOBILE LABORATORY PCB ANALYSIS

sampled 11/2/90

SITE NAME: RCA ROCKY POINT

SITE CODE: 152011

SAMPLE NUMBER:190-306-01 FIELD ID:BLDG # 163485

DATE RECEIVED:11/5/90 ANALYSIS DATE:11/6/90

ARCHIVE NUMBER:P30601 MATRIX:SOIL % SOLID:NA

==========

**** AROCLOR - 1016 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1221 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1232 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1242 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1248 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1254 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

**** AROCLOR - 1260 ****

GAS CHROMATOGRAPH RESULTS: ND DETECTION LIMIT 30 PPB

MASS SPECTROMETER RESULTS: ND

TOTAL P.05

WESTON
MANAGERS DESIGNERS/CONSULTANTS
208 WELSH POOL ROAD
PICKERING CREEK INDUSTRIAL PARK
LIONVILLE, PA 19353
PHONE: (215) 524-7360
TELEX: 83-5348

16 November 1990

RECEIVED
NOV 19 1990
HAZARDOUS WASTE REMEDIATION
NYSDEC REGION 1

Mr. Jack Ryan
NYSDEC Contract Lab Program
Room 301
50 Wolf Road
Albany, NY 12233-3502

Subject: WESTON (A Business Trust) - Contract C002163
Sample Data Package: RFW Batch 9010L449
NYSDEC ID: SH191-1101-1634B4, C3, W2, C2

Dear Mr. Ryan:

Enclosed please find the data package for four soil samples received November 3, 1990. These samples were received unexpectedly on a Saturday and it was not possible to determine the method required for rapid turnaround until Monday morning. Data were reported verbally Wednesday morning.

Please call if you have any questions.

Very truly yours,

ROY F. WESTON, INC.

Judith L. Stone
Project Manager
Analytics Division

JLS/lvd

Enclosure:

cc: John Conover (NYSDEC)

Judy 2356 Kim Bay Yellow Peter

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only
9011L449

Client NYSDEC-1101
Work Order 1667-05-01-0000
Date Rec'd. 11/3/90 Date Due 12/5/90
RFW Contact HL
Client Contact/Phone

Refrigerator#					5							
#/Type Container					HG							
Volume					250							
Preservative					—							
ANALYSES REQUESTED					PCB							
WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected		PCB							
001	SH190-1101-1634 ~~W2~~	S	11/2/90									
002	1634 C3											
003	1634 ~~C3~~ W2											
004	1634 B4											

Revision #2 11/8/90:
Change Client ID's to be
#1 SH190-1101-1634B4
#2 SH190-1101-1634C3
#3 SH190-1101-1634W2
#4 SH190-1101-1634C2
as original C.O.C. stated per Stone Ad

Revision #1 11/7/90:
Due Date is 11/16/90 -
Verbals by 11/7/90
D.H.

Matrix:
S - Soil
SE - Sediment
SO - Solid
O - Oil
A - Air
WI - Wipe
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate

"ORIGINAL REWRITTEN"

PCB - 2 DAY TURN
full CLP

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
all	Fed Ex	K Sheppard	11/3/90	9:30					
	[illegible]	CNT	11/5/90	10:00					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:
2 Ambient or Chilled
NOTES:
3 Received Broken/Leaking (Improperly Sealed) Y N
NOTES:
4 Properly Preserved Y N
NOTES:
5 Received Within Holding Times Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

7-115

RFW 21-21-001/A-12/88

Cooler #101
Ref # Na.

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only

9010L449

Client: NYSDEC-110 R1

Work Order: 1667-05-01-0000

Date Rec'd. 11/3/90 Date Due 12/3/90

RFW Contact

Client Contact/Phone

Refrigerator#	5											
#/Type Container	1/6											
Volume	250ml											
Preservative	—											
ANALYSES REQUESTED	PCB											
Matrix	Date Collected	PCB										
Soil	11/2/90											

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected
001	1637 B4	Soil	11/2/90
002	1634 C3		
~~003~~			
003	1634 W2		
004	1634 C2		

samples analyzed per these IDs Steve Wess 11/5/90

Matrix: S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: PCB - 2 days please

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
	J Conover	J Conover	10/31/90						
	J Conover		11/2/90						
all	J Fedex	K Sheffard	11/3/90	9:30					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed) Y N
NOTES:

4 Properly Preserved Y N
NOTES:

5 Received Within Holding Times Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

7-115

Did it ~~Rec'd~~ ~~[illegible]~~

COOW # 101 full CLP

RFW 21-21-001/A-12/88

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Part 3

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 10. pH
- ☐ 13. Settleable Solids
- ☐ 16. Nitrate/Nitrite
- ☐ 19. Oil/Grease
- ☐ 22. Other _____
- ☐ 3. Volatiles—USEPA 624 (GC/MS)
- ☐ 5. Cyanide
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 11. COD
- ☐ 14. TKN
- ☐ 17. Total Phosphrous
- ☐ 20. TOC
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 62. CBOD
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 9. BOD
- ☐ 12. TSS
- ☐ 15. Ammonia
- ☐ 18. Reactive Phosphorus
- ☐ 21. Total Phenols
- ☐ 60. PCB's congener method
- ☐ 64. Total Solids
- ☐ 65. Volatiles USEPA 524.2 (GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS (ASP #89-2)
- ☐ 25. Volatile Organic Analysis VOA—Water—GC-MS(ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 27. Metals—Water
- ☐ 28. Cyanide—Water
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 35. Other _____
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 30. B/N/A/—Soils/Sediment—GC-MS (ASP #89-2)
- ☐ 31. VOA—Soils/Sediments—GC-MS (ASP #89-1)
- ☐ 32. Pesticides/PCB's—Soil's/Sediment—GC (ASP #89-3)
- ☐ 33. Metals—Soil/Sediment
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 39. Corrosivity
- ☒ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 45. Reactivity
- ☐ 48. Other _____
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 40. VOA—(USEPA 8240)
- ☐ 43. TCLP
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 63. Percent Solids
- ☐ 38. Ignitability
- ☐ 41. BNA—(USEPA 8270)
- ☐ 44. TCLP (Metals Only)
- ☐ 47. Appendix IX
- ☐ 68. Metals

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRB-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☒ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: CONOVER	TELEPHONE NUMBER: 516 751-2617	REGION NO: 1
CONTRACT LAB: Weston	COUNTY:	SAMPLING DATE: 11-2-90 / MILITARY TIME:

SAMPLE MATRIX: ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
5141910	11101	1163/B14	☐ This Sample	☐ Composite ☐ Grab ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

11/5 9:32

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 10. pH
- ☐ 13. Settleable Solids
- ☐ 16. Nitrate/Nitrite
- ☐ 19. Oil/Grease
- ☐ 22. Other _____
- ☐ 3. Volatiles—USEPA 624 (GC/MS)
- ☐ 5. Cyanide
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 11. COD
- ☐ 14. TKN
- ☐ 17. Total Phosphrous
- ☐ 20. TOC
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 62. CBOD
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 9. BOD
- ☐ 12. TSS
- ☐ 15. Ammonia
- ☐ 18. Reactive Phosphorus
- ☐ 21. Total Phenols
- ☐ 60. PCB's congener method
- ☐ 64. Total Solids
- ☐ 65. Volatiles USEPA 524.2 (GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS (ASP #89-2)
- ☐ 25. Volatile Organic Analysis VOA—Water—GC-MS(ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 27. Metals—Water
- ☐ 28. Cyanide—Water
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 35. Other _____
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 30. B/N/A/—Soils/Sediment—GC-MS (ASP #89-2)
- ☐ 31. VOA—Soils/Sediments—GC-MS (ASP #89-1)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 33. Metals—Soil/Sediment
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 38. EP Toxicity
- ☐ 39. Corrosivity
- ☑ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 45. Reactivity
- ☐ 48. Other _____
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 40. VOA—(USEPA 8240)
- ☐ 43. TCLP
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 63. Percent Solids
- ☐ 38. Ignitability
- ☐ 41. BNA—(USEPA 8270)
- ☐ 44. TCLP (Metals Only)
- ☐ 47. Appendix IX
- ☐ 68. Metals

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: CONOVER | TELEPHONE NUMBER: 516 751 2617 | REGION NO:

CONTRACT LAB: Weston | COUNTY: | SAMPLING DATE: 1/2/90 | MILITARY TIME: 1400

SAMPLE MATRIX: ☐ Air ☑ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
5HA90	1104	A0340 3	☐ This Sample	☐ Composite ☑ Grab ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate	Outfall Number	Check if sampling is part of inspection
☐		☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

Buffalo 1/13/90

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 10. pH
- ☐ 13. Settleable Solids
- ☐ 16. Nitrate/Nitrite
- ☐ 19. Oil/Grease
- ☐ 22. Other _____
- ☐ 3. Volatiles—USEPA 624 (GC/MS)
- ☐ 5. Cyanide
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 11. COD
- ☐ 14. TKN
- ☐ 17. Total Phosphrous
- ☐ 20. TOC
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 62. CBOD
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 9. BOD
- ☐ 12. TSS
- ☐ 15. Ammonia
- ☐ 18. Reactive Phosphorus
- ☐ 21. Total Phenols
- ☐ 60. PCB's congener method
- ☐ 64. Total Solids
- ☐ 65. Volatiles USEPA 524.2 (GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS (ASP #89-2)
- ☐ 25. Volatile Organic Analysis VOA—Water—GC-MS(ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 27. Metals—Water
- ☐ 28. Cyanide—Water
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 35. Other _____
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 30. B/N/A/—Soils/Sediment—GC-MS (ASP #89-2)
- ☐ 31. VOA—Soils/Sediments—GC-MS (ASP #89-1)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 33. Metals—Soil/Sediment
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 39. Corrosivity
- ☒ 42. ~~Pesticides~~ PCB's (USEPA 8080)
- ☐ 45. Reactivity
- ☐ 48. Other _____
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 40. VOA—(USEPA 8240)
- ☐ 43. TCLP
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 63. Percent Solids
- ☐ 38. Ignitability
- ☐ 41. BNA—(USEPA 8270)
- ☐ 44. TCLP (Metals Only)
- ☐ 47. Appendix IX
- ☐ 68. Metals

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: CONOVER	TELEPHONE NUMBER: 516 751 [illegible]	REGION NO: 1
CONTRACT LAB: Wilson	COUNTY:	SAMPLING DATE: 11/2/90 — MILITARY TIME: 1600

SAMPLE MATRIX: ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
51411910	11101	16314W2	☐ This Sample	☐ Composite ☐ Grab ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
☐ 7. Halogenated Volatiles (USEPA 601-GC)
☐ 10. pH
☐ 13. Settleable Solids
☐ 16. Nitrate/Nitrite
☐ 19. Oil/Grease
☐ 22. Other _____
☐ 3. Volatiles—USEPA 624 (GC/MS)
☐ 5. Cyanide
☐ 8. Aromatic Volatiles (USEPA 602-GC)
☐ 11. COD
☐ 14. TKN
☐ 17. Total Phosphrous
☐ 20. TOC
☐ 59. PCB's at 0.065 ug/L
☐ 62. CBOD
☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 9. BOD
☐ 12. TSS
☐ 15. Ammonia
☐ 18. Reactive Phosphorus
☐ 21. Total Phenols
☐ 60. PCB's congener method
☐ 64. Total Solids
☐ 65. Volatiles USEPA 524.2 (GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC-MS(ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
☐ 27. Metals—Water
☐ 28. Cyanide—Water
☐ 66. Dioxin-Water (ASP #89-4)
☐ 35. Other _____
☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 30. B/N/A/—Soils/Sediment—GC-MS (ASP #89-2)
☐ 31. VOA—Soils/Sediments—GC-MS (ASP #89-1)
☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 33. Metals—Soil/Sediment
☐ 34. Cyanide—Soils/Sediment
☐ 67. Dioxin-Soil/Sediment (ASP #89-4)

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity
☐ 39. Corrosivity
☐ 42. Pesticides/PCB's (USEPA 8080)
☐ 45. Reactivity
☐ 48. Other _____
☐ 37. EP Toxicity (Metals Only)
☐ 40. VOA—(USEPA 8240)
☐ 43. TCLP
☐ 46. Dioxin (USEPA 8280)
☐ 63. Percent Solids
☐ 38. Ignitability
☐ 41. BNA—(USEPA 8270)
☐ 44. TCLP (Metals Only)
☐ 47. Appendix IX
☐ 68. Metals

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
CONOVER	716 751-2617	1

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
WESTON		11/2/90	1600

SAMPLE MATRIX:
☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
5H1910	11101	16314C12	☐ This Sample	☐ Composite ☒ Grab ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

K. Conover 11/3/90 9:35

WESTON

Originator

PHONE CONVERSATION RECORD

Conversation with:

Name Larry Bailey

Company NYSDEC

Address

Phone 518-457-7470

Date 11/5/90

Time (AM) PM

☒ Originator Placed Call

☐ Originator Received Call

W.O. NO. 1667-05-01

Subject REW Bldg 9011-449

Notes:

(1) PCB's for 2 day TAT — do soxhlet extraction

2 days state today

(2) needs weekly report either transmitted or list of what recd thru Sat w/ $ amount

today

☐ File

☐ Tickle File ___/___/___

☐ Follow-Up By:

☐ Copy/Route To: Wesson, Reg D.

Follow-Up-Action: JLS call sampler w/ results

Originator's Initials JR

RFW 110-4-83

NOV 19 1990

Roy F. Weston, Inc. - Lionville Laboratory
PCB ANALYTICAL DATA PACKAGE FOR
NYSDEC-1101

RFW LOT # :9011L449

DATE RECEIVED: 11/03/90

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SH190-1101-1634B4	001	S	90DL0477	11/02/90	11/05/90	11/07/90
SH190-1101-1634C3	002	S	90DL0477	11/02/90	11/05/90	11/06/90
SH190-1101-1634C3	002 MS	S	90DL0477	11/02/90	11/05/90	11/07/90
SH190-1101-1634C3	002 MSD	S	90DL0477	11/02/90	11/05/90	11/07/90
SH190-1101-1634W2	003	S	90DL0477	11/02/90	11/05/90	11/06/90
SH190-1101-1634C2	004	S	90DL0477	11/02/90	11/05/90	11/07/90
LAB QC:						
PBLK	MB1	S	90DL0477	N/A	11/05/90	11/06/90
PBLK	MB1 BS	S	90DL0477	N/A	11/05/90	11/06/90

PAGE

INTRODUCTION:

Chain Of Custody..... 1
Data Summary..... 3

I. Case Narrative..... 5

II. QC Summary..... n/a
A. Surrogate % Recovery Summary, Forms 2
B. Matrix Spike/Matrix Spike Duplicate, Forms 3
C. Method Blank Summary, Forms 4

III. Sample Data Package..... 8
A. Sample Data in order of RFW number
1. Tabulated Results, Forms 1
2. Raw Data in order by:
a. 2250/2401 Column
b. SP2100 Column

IV. Standards Data Package..... 14
A. Pesticide/PCB standards:
1. Forms 8
2. Form 9
3. Form 10 (if applicable)
4. Instrument Conditions
5. Chromatograms:
a. 2250/2401 Column
b. SP2100 Column

V. Raw QC Data Package..... 63
A. Blank Data
1. Tabulated Results, Forms 1
2. Raw Data:
a. 2250/2401 Column
b. SP2100 Column

B. Matrix Spike Data
1. Tabulated Results, Forms 1
2. Raw Data
a. 2250/2401 Column
b. SP2100 Column

C. Matrix Spike Duplicate Data
1. Tabulated Results, Forms 1
2. Raw Data
a. 2250/2401 Column
b. SP2100 Column

CHAIN OF CUSTODY

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only
9011L449

Client: NYSDEC-1101
Work Order: 1667-05-01-0000
Date Rec'd.: 11/3/90 Date Due: 12/[illegible]/90
RFW Contact: [illegible]
Client Contact/Phone:

Refrigerator#	5
#/Type Container	HG
Volume	250
Preservative	—
ANALYSES REQUESTED	PCB

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	PCB
001	SH190-1101-1634 ~~W2~~	S	11/2/90	
002	1634 ~~G2~~ C3			
003	1634 ~~G3~~ W2			
004	1634 ~~B4~~ C2			

Revision #2 11/8/90:
Change Client ID's to be
#1 SH190-1101-1634B4
#2 SH190-1101-1634C3
#3 SH190-1101-1634W2
#4 SH190-1101-1634C2
as original C.O.C. stated per Stone Dat

Revision #1 11/7/90:
Due Date is 11/16/90 --
Verbal by 11/7/90
D.H.

Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
WI - Wipe
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate

Special Instructions:
PCB - 2 DAY TURN
full CLP
"ORIGINAL REWRITTEN"

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
all	Ted Ix	K. Sheppard	11/3/90	9:30					
	[illegible]	[illegible]	11/5/90	10:00					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:
2 Ambient or Chilled
NOTES:
3 Received Broken/Leaking (Improperly Sealed) Y N
NOTES:
4 Properly Preserved Y N
NOTES:
5 Received Within Holding Times Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

RFW 21-21-001/A-12/88

Cooler #101
Ref # Na.

7-115

DATA SUMMARY

Roy F. Weston, Inc. - Lionville Laboratory
PCBs by GC

Report Date: 11/09/90 08:34
Page: 1

RFW Batch Number: 9011L449 Client: NYSDEC-1101 Work Order: 1667-05-01-0000

Sample Information	Cust ID:	SH190-1101-1 634B4	SH190-1101-1 634C3	SH190-1101-1 634C3	SH190-1101-1 634C3	SH190-1101-1 634W2	SH190-1101-1 634C2
	RFW#:	001	002	002 MS	002 MSD	003	004
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	25.0	0.500	25.0	2.50	0.500	250
	Units:	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Aroclor-1016		6.4 U	0.12 U	6.2 U	0.62 U	0.12 U	63 U
Aroclor-1221		6.4 U	0.12 U	6.2 U	0.62 U	0.12 U	63 U
Aroclor-1232		6.4 U	0.12 U	6.2 U	0.62 U	0.12 U	63 U
Aroclor-1242		6.4 U	0.12 U	6.2 U	0.62 U	0.12 U	63 U
Aroclor-1248		6.4 U	0.12 U	6.2 U	0.62 U	0.12 U	63 U
Aroclor-1254		13 U	0.25 U	D %	D %	0.25 U	130 U
Aroclor-1260		23	0.33	I	I		(190)

Sample Information	Cust ID:	PBLK	PBLK BS
	RFW#:	90DL0477-MB1	90DL0477-MB1
	Matrix:	SOIL	SOIL
	D.F.:	0.500	0.500
	Units:	ug/g	ug/g
Aroclor-1016		0.12 U	0.12 U
Aroclor-1221		0.12 U	0.12 U
Aroclor-1232		0.12 U	0.12 U
Aroclor-1242		0.12 U	0.12 U
Aroclor-1248		0.12 U	0.12 U
Aroclor-1254		0.24 U	104 %
Aroclor-1260		0.24 U	0.24 U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Samples Collected 11/2/90

I. CASE NARRATIVE

WESTON

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: NYSDEC-1101
RFW #: 9011L449
W.O. #: 1667-05-01-0000

SAMPLES RECEIVED:11/07/90

NARRATIVE

This set of samples consisted of four soil samples. The samples were collected on November 2, 1990.

Samples were extracted on November 5, 1990 and analyzed for PCB target compounds on November 6 and 7, 1990. Samples were analyzed according to WESTON Analytics modified Tier II Method.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered During their analysis:

1. Method Blanks were free of contamination.
2. Method Blank Spikes were within laboratory limits.
3. Initial calibration criteria was met for all runs.
4. Continuing calibration criteria was met for all runs.
5. Matrix spike recoveries were diluted out due to the presence of Aroclor-1260 in the sample.

Steph D. Wyss 11-09-90

J. Michael Taylor
Project Director
Lionville Analytical Laboratory

Date

11/09/90
9011L449.cn

WESTON Analytics - Dedicated Lab

CLIENT: NYSDEC-1101
RFW # : 9011L449
W.O.# : 1667-05-01-0000

DATA QUALIFIER

1. The following qualifiers are used on the data summary:

U - Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).

J - Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

BS - Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD - Indicates blank spike duplicate.

MS - Indicates matrix spike.

MSD - Indicates matrix spike duplicate.

DL - Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA - Not applicable.

DF - Dilution factor.

NR - Not required.

I - Interference.

III. SAMPLE DATA PACKAGE

A. SAMPLE DATA IN ORDER OF RFW NUMBER

1. TABULATED RESULTS, FORMS 1

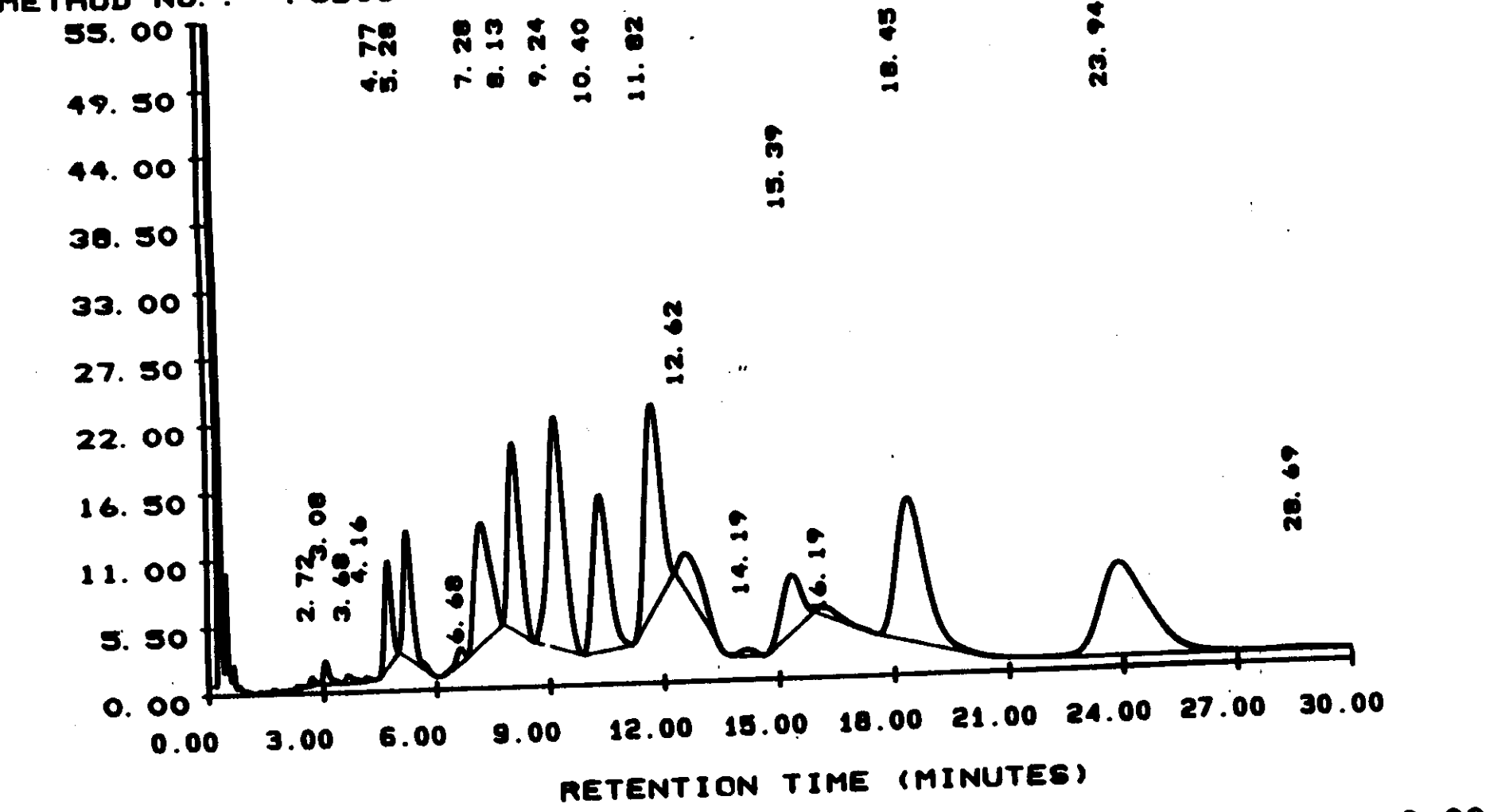
2. RAW DATA IN ORDER BY:

   a. 2250/2401 Column
   b. SP2100 Column

9011L449-001

SAMPLE NO. : 11069006 .34
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/07/90 20:37:58
PAGE NO. : 01



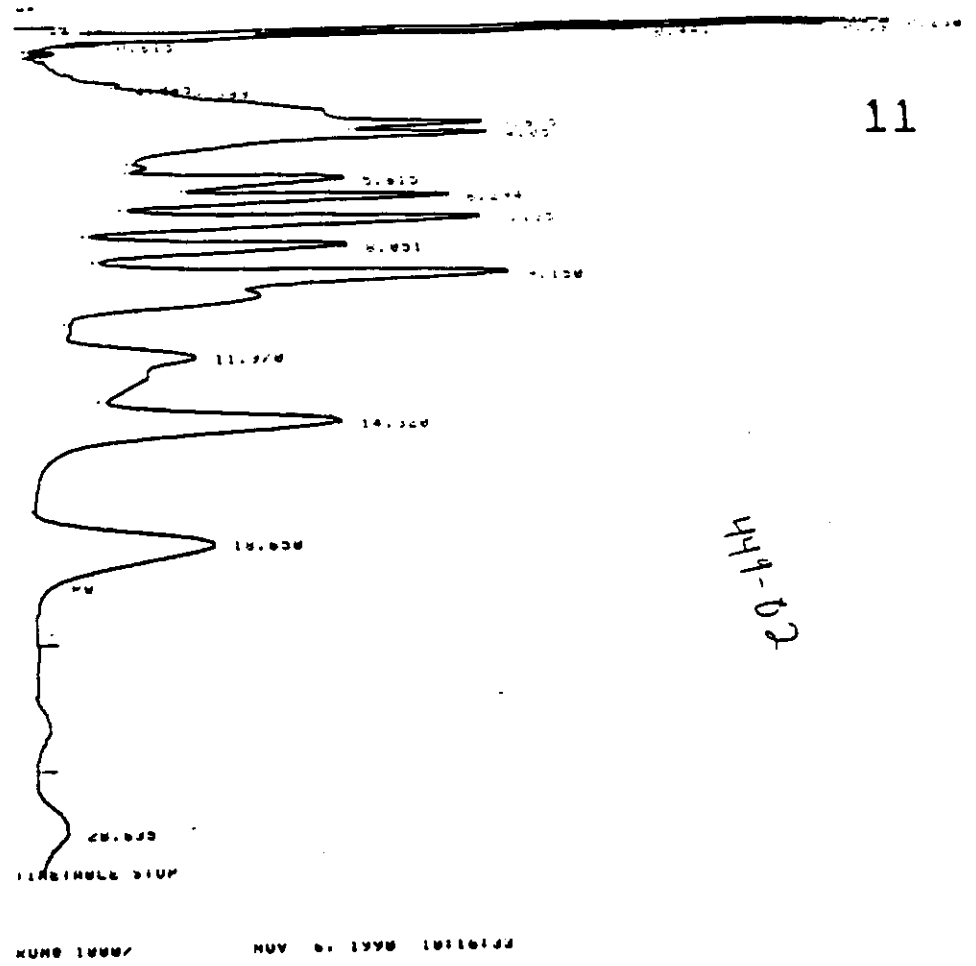
Y MAXIMUM: 15210.
Y MINIMUM: 2285.

START TIME: 0.00
END TIME: 30.00

EXTERNAL STANDARD

SAMPLE: 11069006 .34 INST:06 VIAL: 0 SEQ NUMBER:034
TEST : OPC8 DATE-TIME INJECTED : 11/07/90 20:37:58
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/07/90 21:08:34
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SH190-1101-1634W2 SAMPLE VOL: 3.0 ul
CLIENT: NYSDEC-1101 COLUMN TYPE: 2250/2401
LAB ID: 9011L449-001 RAW FILE: RAW2:K7042370
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 50.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL	
001	16983	1473	V	2.718				
002	46108	4287	V	3.084				
003	20615	1476	V	3.675				
004	7045	759	V	4.156				
005	255017	19817	V	4.770				
006	398861	24777	V	5.284				
007	37509	2600	V	6.675				
008	676087	22911	V	7.277				
009	791046	36287	V	8.134				
010	1290445	44655	V	9.245				
011	887142	30223	V	10.396				
012	1140029	38658	V	11.818				
013	326623	7384	V	12.622				
014	32930	1236	V	14.185				
015	382116	10711	V	15.394				
016	53943	1625	V	16.193				
017	1457081	27816	V	18.451				
018	1604535	18047	V	23.936				
019	27149	380		28.693				
					1	DBC		
	317237			9.245		AROCHLOR-1260	21.505	*



HH-02

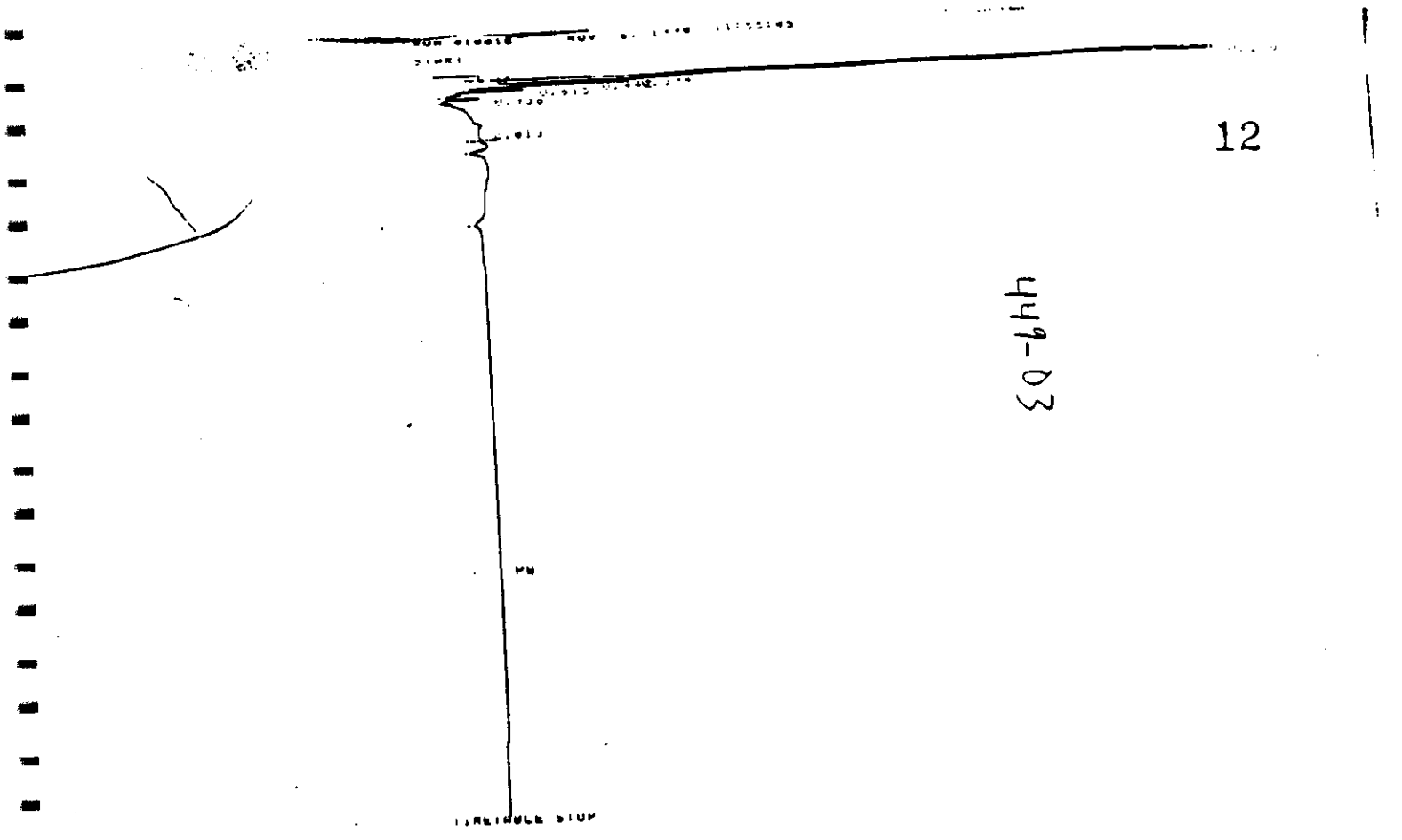
NOV 6, 1998

SAMPLE# 4

RT	AREA	TYPE	WIDTH	AREA%
.438	498884	BV	.838	14.88417
.387	37133	VV	.861	1.883/3
.441	38882	VV	.83/	1.883/8
.813	3124	VB	.8/9	.14284
2.883	488848	BV	.438	1.33/38
2.388	4884/8	VV	.233	1.12884
3.8/3	-488234	VV	.384	13.83344
4.83/	-2/8447	VV	.349	8.18918
5.813	-188887	VV	.31/	5.288883
6.478	-288888	VV	.413	5.88238/
7.143	-288378	VV	.381	7.28887
8.831	-178883	VV	.344	5.433842
9.138	-348847	VV	.88/	9.4/881
11.9/8	-388747	VV	1.333	9.8///3
14.348	-338888	VP	.788	9.88238
18.838	-2878/1	PB	1.4/8	7.43318
28.833	38488	BB	1.383	1.34372

TOTAL AREA=3392134

AUL FACTOR=1.000000



44-03

SAMPLES

KI	AREA	TYPE	WIDTH	AREAX
.438	3/3929	BV	.853	88.47884
.396	8883	VV	.844	2.88448
.442	18471	VV	.868	2.46489
.613	8494	VP	.872	1.32823
.938	4969	PP	.839	.88949
2.813	28148	PB	.949	4.73848

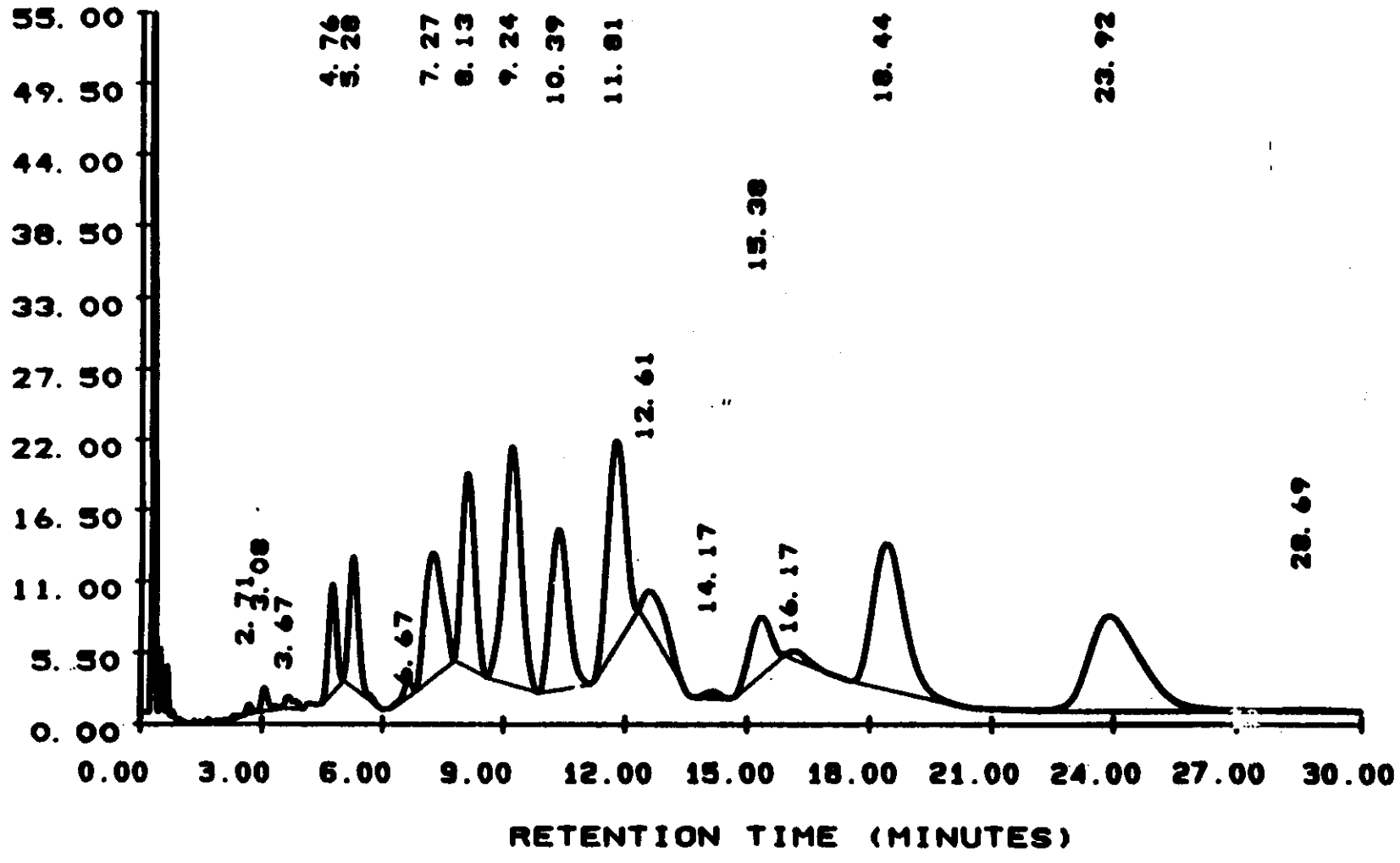
TOTAL AREAS 474886
AUL FRACTURE=1.000004489

13

9011L449-004

SAMPLE NO. : 11069006 .37
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/07/'90 22:16:15
PAGE NO. : 01



Y MAXIMUM: 13796.
Y MINIMUM: 2295.

START TIME: 0.00
END TIME: 30.00

IV. Standard Data

A. Pesticide/PCB Standards

1. Forms 8
2. Form 9
3. Form 10 (if applicable)
4. Chromatogram(s):

    a. 2250/2401 Column
    b. SP2100 Column

EXTERNAL STANDARD

SAMPLE: 11069006 .37 INST:06 VIAL: 0 SEQ NUMBER:037
TEST : OPCB DATE-TIME INJECTED : 11/07/90 22:16:15
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/07/90 22:46:41
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SH190-1101-1634B4 SAMPLE VOL: 3.0 ul
CLIENT: NYSDEC-1101 COLUMN TYPE: 2250/2401
LAB ID: 9011L449-004 RAW FILE: RAW2:K7042430
SAMPLE WT : % MOISTURE : DILUTION FACTOR :500.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	15726	1540	V	2.706			
002	38272	3612	V	3.080			
003	30376	1915	V	3.673			
004	219797	17080	V	4.764			
005	339822	21374	V	5.278			
006	31313	2152	V	6.669			
007	586392	19972	V	7.271			
008	684169	31367	V	8.127			
009	1114001	38525	V	9.237			
010	756878	25792	V	10.387			
011	969343	32761	V	11.808			
012	273488	6353	V	12.609			
013	27573	1041	V	14.168			
014	320410	9060	V	15.380			
015	45518	1356	V	16.173			
016	1233967	23546	V	18.436			
017	1351851	15191	V	23.924			
018	22839	316		28.688			
					1	DBC	
	271477			9.237		AROCHLOR-1260	184.027 *

EVALUATION CHECK FOR LINEARITY

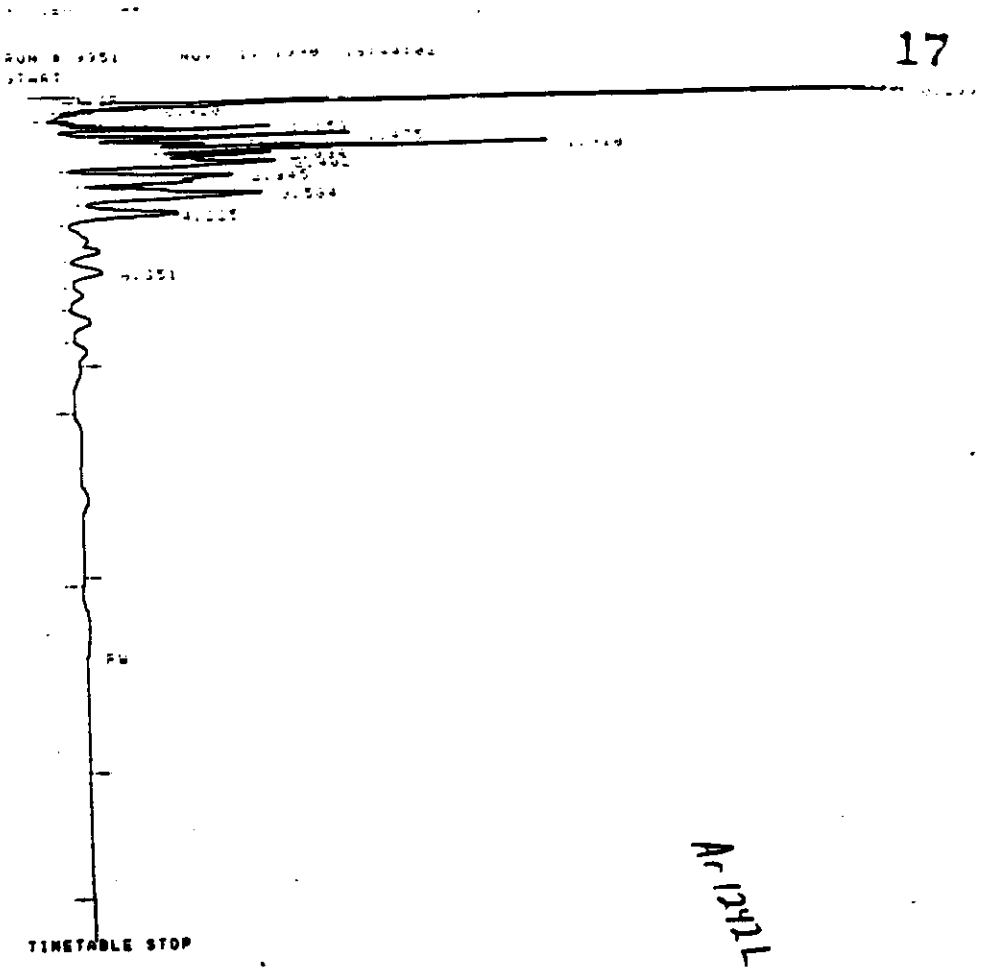
LAB: WESTON
CLIENT:
DATES OF ANALYSIS:11/01-11/06/90

INSTR ID:11019005
COL ID: ____

AR-1242		AR-1248		AR-1254	
SA#	HT	SA#	HT	SA#	HT
14-01	429	09-03	547	13-07	743
15-01	1019	10-03	1330	14-07	1875
16-01	1814	11-03	2289	15-07	3280
%RSD =	12.3	%RSD =	12.8	%RSD =	7.3

CONTINUING CALIBRATION SUMMARY

SAMPLE	DATE ANAL	TIME ANAL	HT	DATE ANAL	TIME ANAL	HT	%D
AR-1242	11/01/90	17:16:48	1019	11/03/90	12:49:24	1027	-0.8
AR-1248	11/01/90	18:54:58	1330	11/03/90	18:48:49	1316	1.1
AR-1254	11/02/90	17:26:48	1875	11/04/90	00:46:15	1877	-0.1
AR-1242	11/01/90	17:16:48	1019	11/04/90	13:22:36	1094	-7.4
AR-1248	11/01/90	18:54:58	1330	11/06/90	15:14:17	1413	-6.2



Arctic

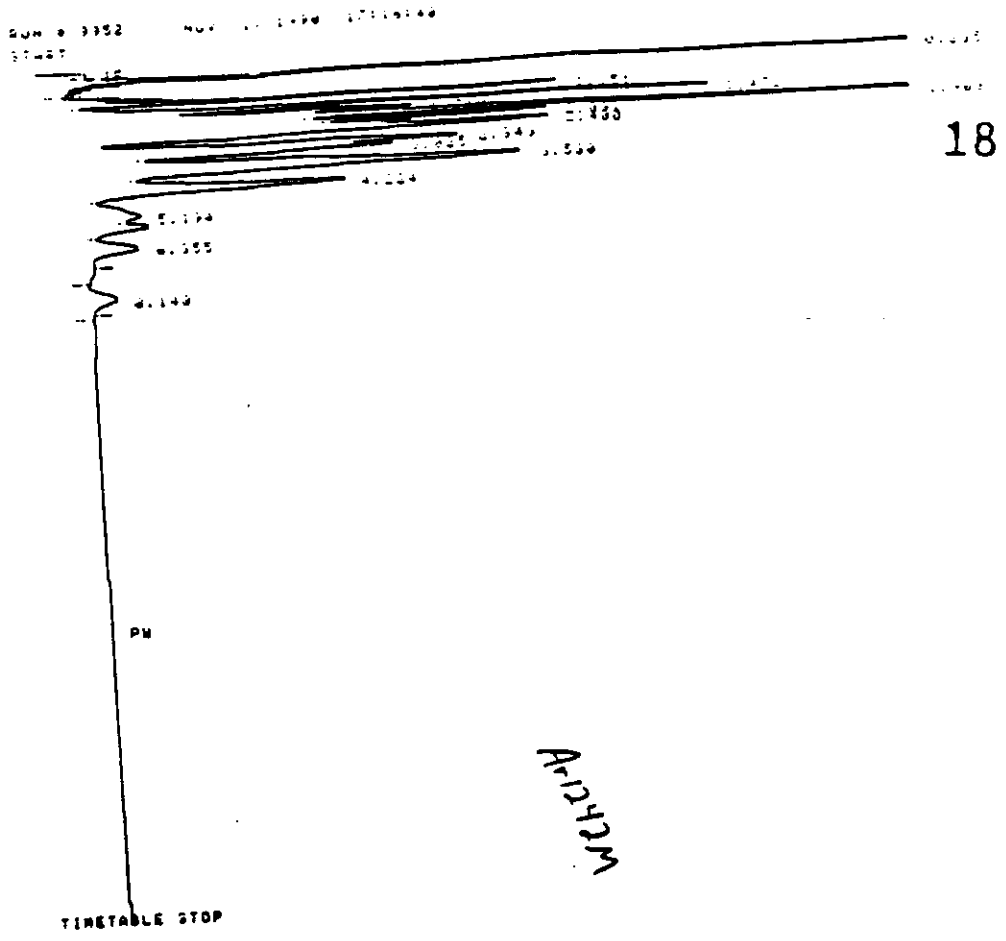
RUN# 9351 NOV 1, 1990 16144182

SAMPLE# 1

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.233	221369	BV	.051	32.87656
.428	4658	VV	.058	.69178
.938	1778	PV	.056	.26387
1.153	24353	VV	.094	3.61670
1.475	36898	VV	.106	5.47871
1.713	25286	VV	.140	3.75831
1.918	71872	VV	.123	10.68898
2.094	31852	VV	.125	4.73049
2.402	70185	VV	.271	10.41162
2.845	38290	VV	.184	5.68663
3.584	83715	VV	.358	12.43291
4.225	46521	VV	.333	6.90985
6.351	16533	VV	.398	2.45539

TOTAL AREA= 673334
MUL FACTOR=1.0000E+00

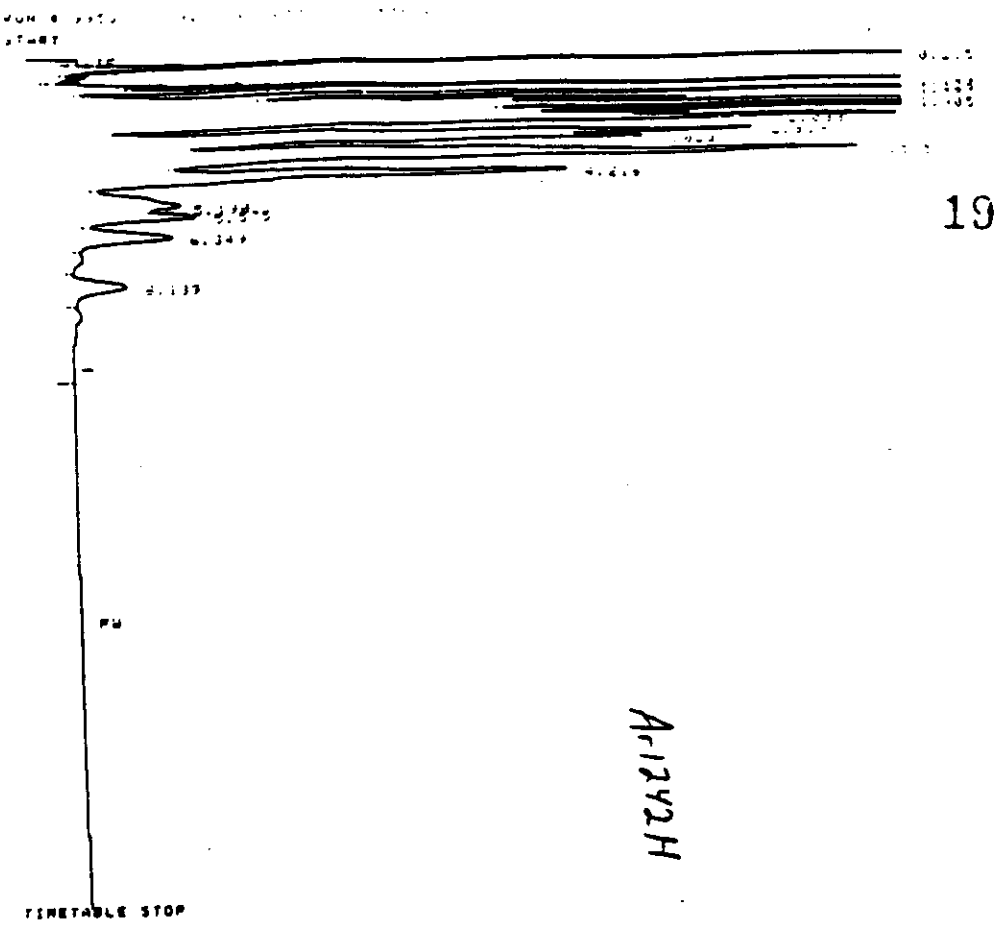


RUN# 3352 HOV 1. 1990 17116148

SAMPLE# 2

RT	AREA	TYPE	WIDTH	AREA%
.235	153858	PB	.050	12.68154
.339	3819	PV	.056	.31287
1.151	54758	VV	.094	4.37988
1.472	81741	VV	.108	6.52566
1.718	57533	VV	.141	4.59386
1.988	157168	VV	.124	12.54726
2.071	70347	VV	.125	5.61684
2.488	155958	VV	.278	12.48276
2.843	82696	VV	.182	6.59345
3.025	69884	VV	.185	5.57269
3.588	185762	VV	.357	14.83082
4.224	103447	VV	.328	8.25853
5.194	33443	VV	.499	2.66987
6.355	24255	VB	.416	1.93636
8.148	13541	PB	.426	1.08101

TOTAL AREA=1252608
RUL FACTOR=1.0000E+00



Ar1242H

RUN# 9953 NOV 1, 1998 17:49:31

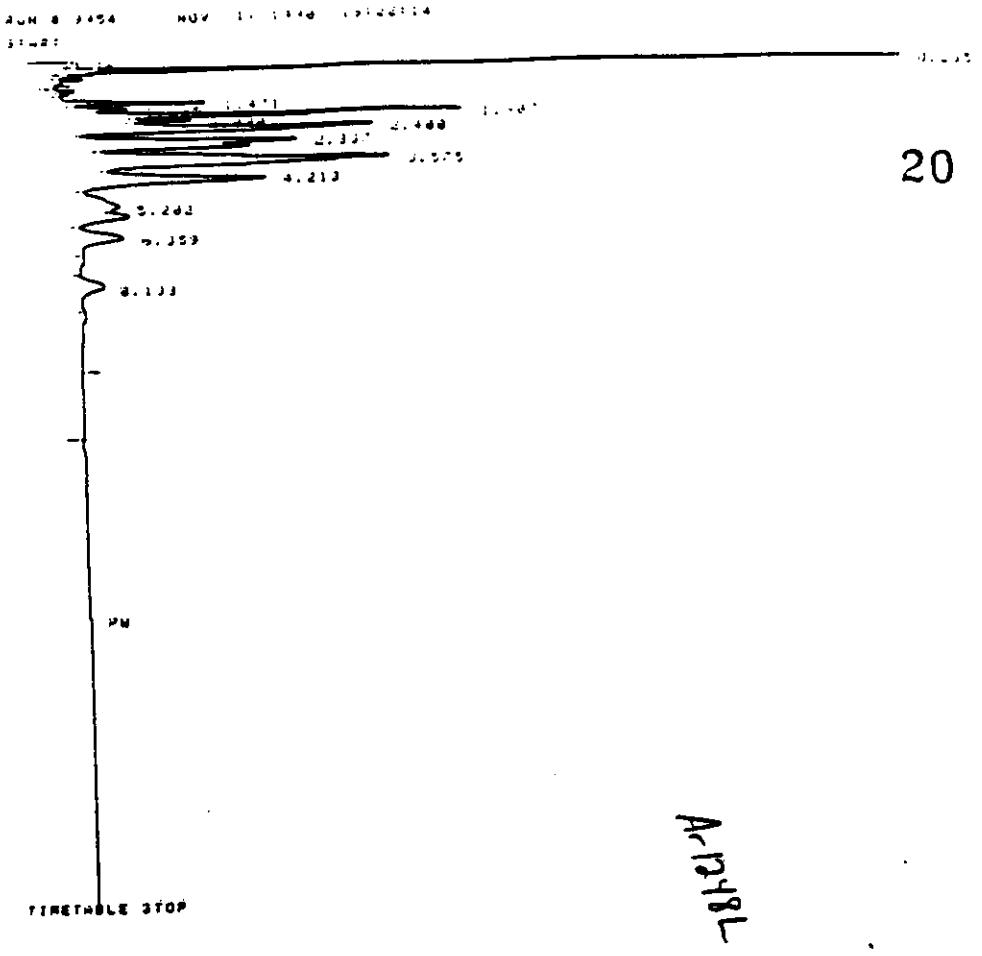
SAMPLE# 3

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.235	212988	FB	.458	9.39794
.937	7248	PV	.856	.31993
1.017	13838	VV	.863	.61082
1.149	84392	VV	.881	3.72514
1.463	144855	VV	.188	6.35871
1.706	103264	VV	.141	4.55816
1.785	278948	VV	.123	12.31388
2.088	400834	VV	.488	17.69315
2.839	145984	VV	.181	6.44033
3.023	127868	VV	.186	5.68854
3.575	334963	VV	.361	14.78555
4.216	194662	VV	.338	8.59255
5.178	68788	VV	.581	3.03681
5.575	56737	VV	.374	2.50442
6.349	58146	VV	.464	2.56661
8.139	33736	VV	.443	1.48914

TOTAL AREA=2265475

MUL FACTOR=1.0000E+00



20

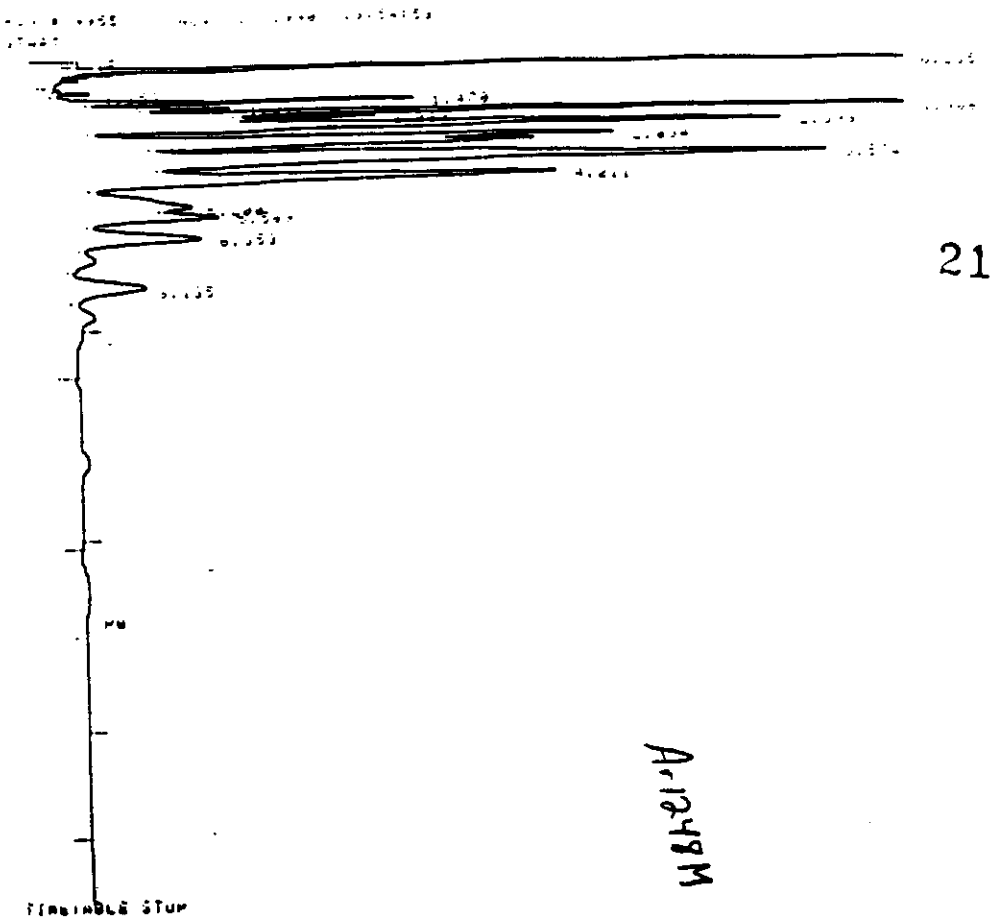
RUN# 9954 NOV 1, 1990 10:22:14

SAMPLE# 4

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.235	123223	PB	.049	17.47728
1.471	17464	VV	.098	2.47699
1.695	11961	VV	.141	1.69648
1.987	55342	VV	.116	7.84937
2.098	19901	VV	.125	2.82264
2.468	83412	VV	.227	11.83065
2.837	89637	VV	.321	12.71357
3.575	137233	VV	.358	19.46438
4.213	81485	VV	.342	11.54599
5.282	32843	VV	.512	4.65825
6.359	30999	VV	.469	4.39671
8.138	21638	VV	.564	3.06787

TOTAL AREA= 705058
MUL FACTOR=1.0000E+00

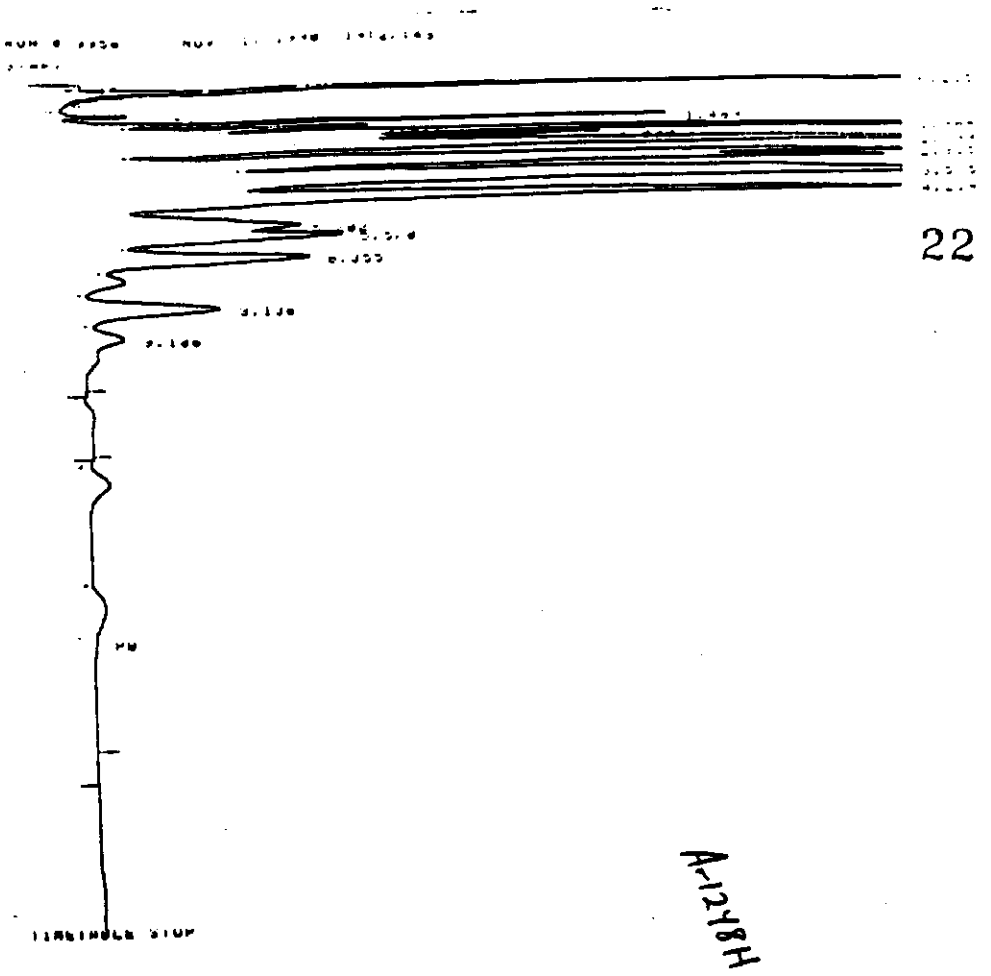


RUN# 2955 NOV 1. 1998 181541SW

SAMPLES 5

MI	MAGN	TYPE	MINIM	MAGNX
.235	190814	PB	.869	11.99911
1.154	4037	VH	.864	.187/3
1.478	√3[illegible]038	VV	.892	2.58888
1.894	28111	VV	.138	1.76923
1.986	√1[illegible]816	VV	.116	4.19334
2.889	√4[illegible]227	VV	.124	2.71647
2.998	√1910[illegible]8	VV	.228	14.99817
4.434	√2[illegible]8[illegible]8	VV	.328	13.48/87
5.574	√5[illegible]004	VV	.438	28.84438
6.211	√18[illegible]12	VV	.548	11.98388
7.488	√7[illegible]37	VV	.673	6.44953
9.389	√8[illegible]399	VV	.784	6.85813
8.954	√8[illegible]213	VV	.893	6.43848
8.125	3.[illegible]38	PV	.438	2.33887

TOTAL MAGN=1388884



A-1248H

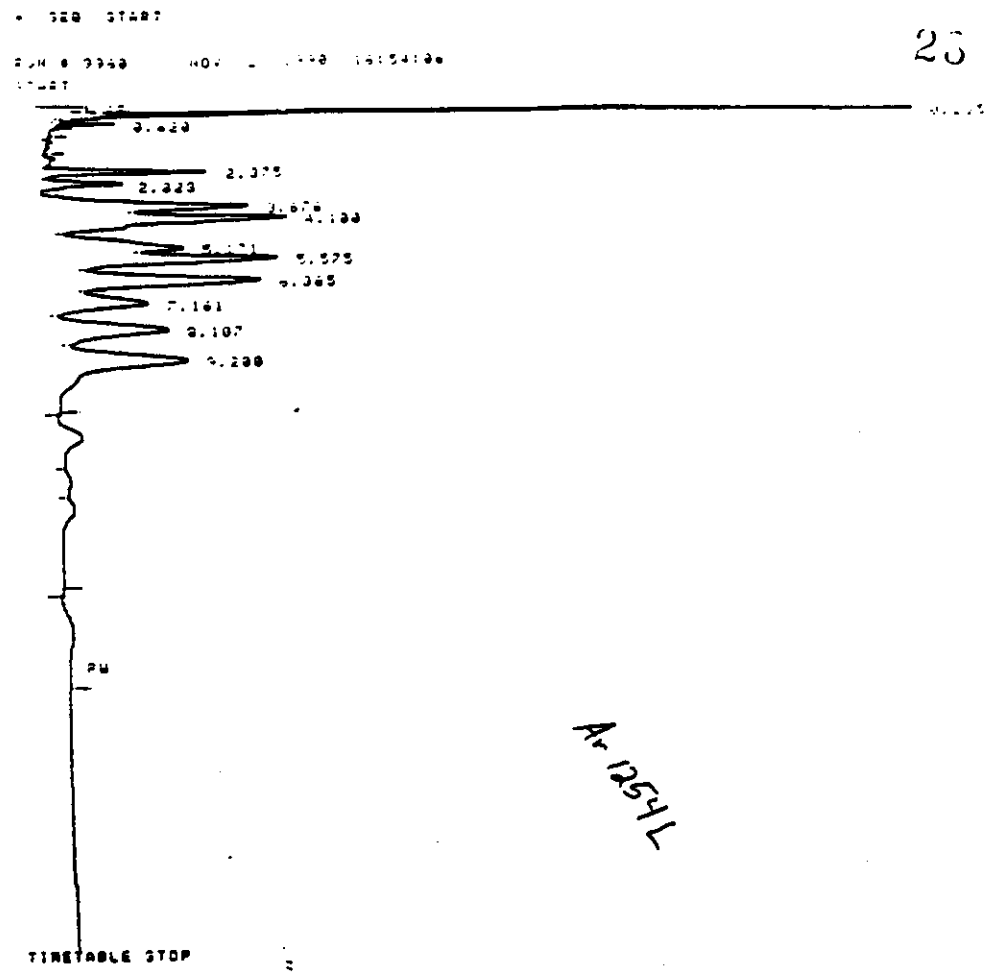
RUN# 9956 NUV 1. 1990 19:42:14

SAMPLE# 6

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.249	260150	PB	.048	9.55043
1.153	5596	PP	.072	.20543
1.469	68246	PV	.095	2.50528
1.691	49678	VV	.139	1.82366
1.986	219510	VV	.117	8.05812
2.098	78547	VV	.124	2.88343
2.399	320532	VV	.232	11.76668
2.835	369253	VV	.239	13.48838
3.575	535448	VV	.363	19.65578
4.214	327666	VV	.334	12.02849
5.202	128754	VV	.495	4.72651
5.578	117422	VV	.372	4.31052
6.385	127113	VV	.464	4.66627
8.136	80275	VV	.488	2.94686
9.186	39895	VB	.782	1.46453

TOTAL AREA=2724083
MUL FACTOR=1.00000+00



Ar 1254L

RUN# 7760 NOV 2, 1998 16:54:06

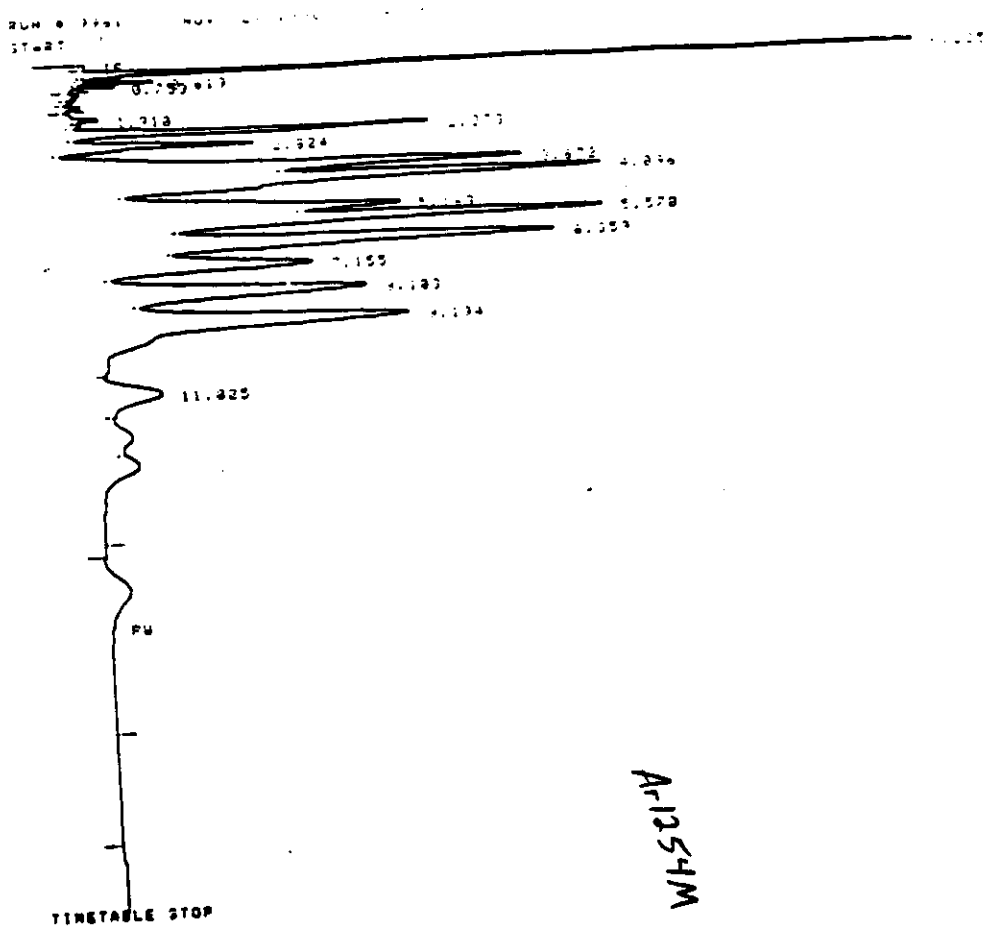
SAMPLE# 7

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.235	104419	BB	.858	11.99888
.628	2998	PP	.844	.34458
2.375	30124	VV	.155	3.46155
2.828	20241	VP	.283	2.32598
3.676	82116	PV	.334	9.43596
4.188	115648	VV	.399	13.28913
5.171	71089	VV	.426	8.16885
5.575	101588	VV	.378	11.66338
6.365	107988	VV	.429	12.39881
7.161	59849	VV	.496	6.78533
8.187	71279	VV	.589	8.19868
9.288	103832	VB	.655	11.93718

TOTAL AREA= 870245

RUL FACTOR=1.0000E+00



AR-1574M

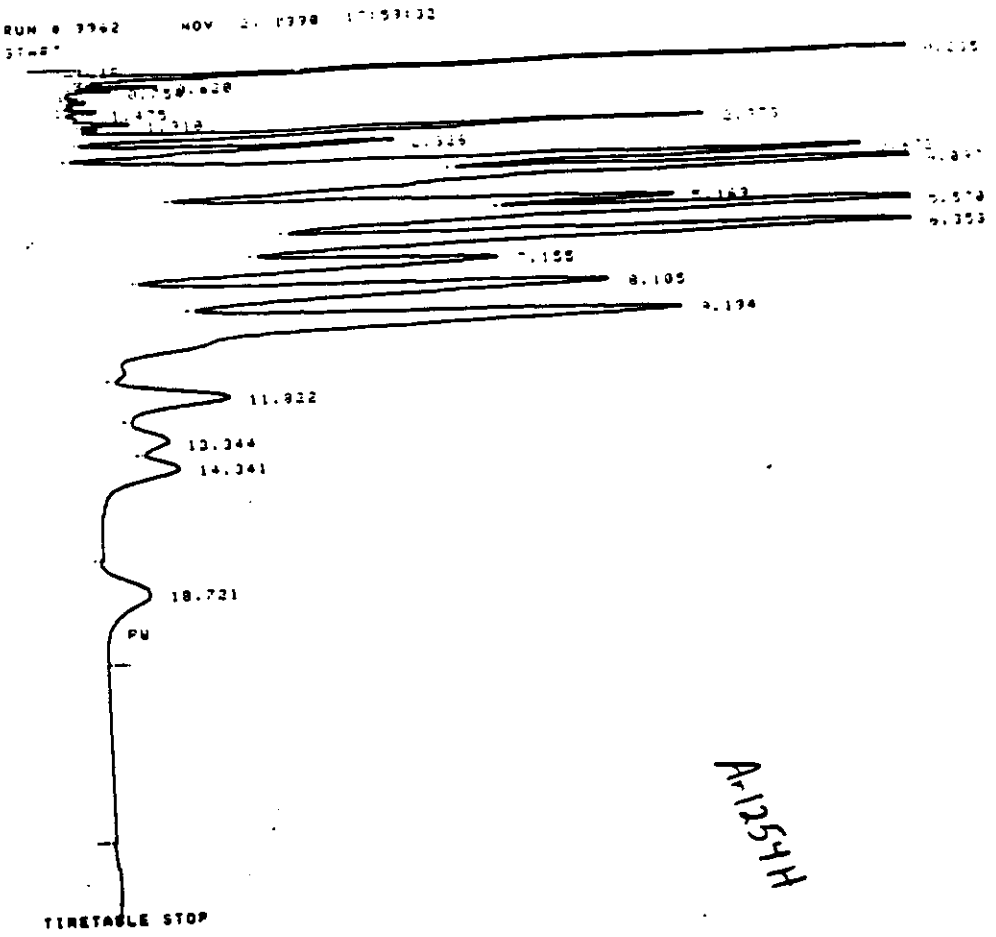
RUN8 7961 NOV 2, 1998 17:26:43

SAMPLE8 8

RT	AREA	TYPE	WIDTH	AREA%
.235	152722	PB	.858	7.31893
.619	3721	PP	.843	.17832
.753	1867	PB	.843	.89522
1.918	5861	BV	.141	.28088
2.373	√69862	VV	.160	3.38967
2.824	47141	VP	.286	2.25915
3.672	√182480	PV	.338	8.74582
4.896	√258637	VV	.412	12.39472
5.168	√169391	VV	.438	8.11776
5.578	√237103	VV	.379	11.36274
6.359	√252262	VV	.446	12.08928
7.155	√147188	VV	.519	7.05334
8.183	√184748	VV	.538	8.85372
9.194	√296558	VV	.767	14.21162
11.825	√77827	VV	.868	3.72972

TOTAL AREA=2086672

AREA% RUL FACTOR=1.0000E+00



H4521H

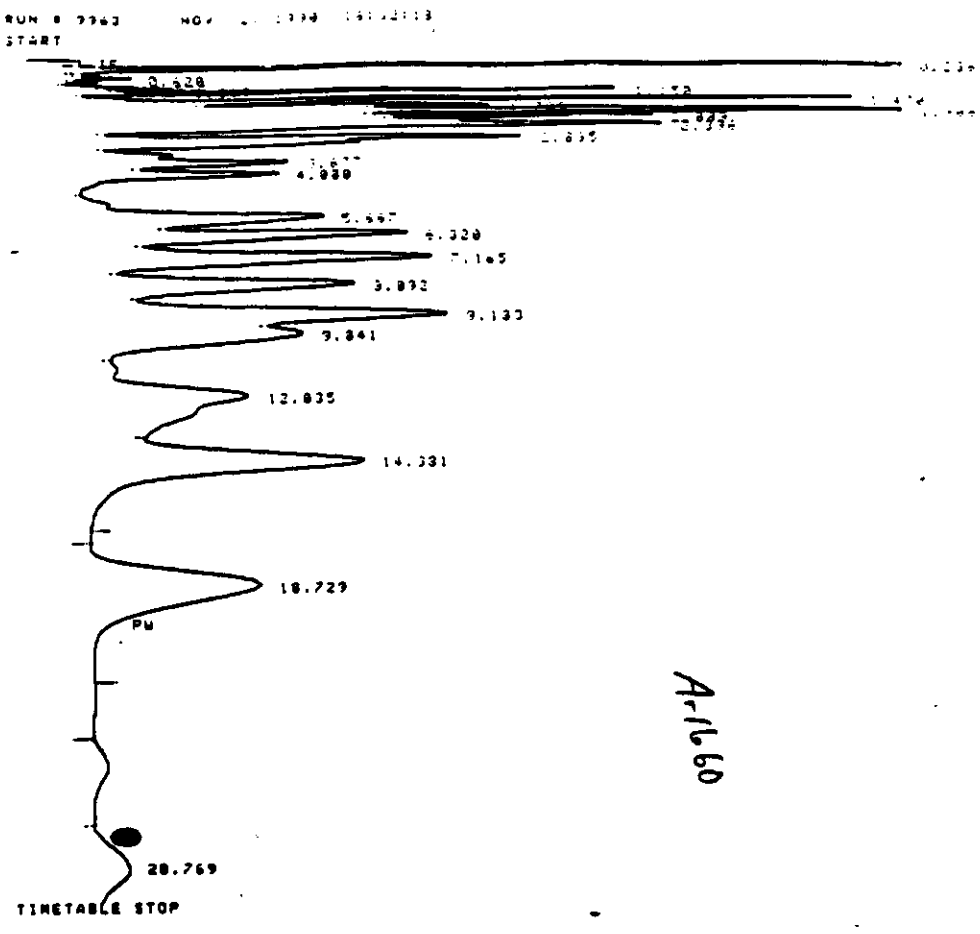
RUN# 3962 NOV 2, 1998 17:59:32

SAMPLE# 9

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.235	166984	PB	.848	4.38166
.628	3879	VP	.843	.10183
.754	2238	PP	.852	.05928
1.475	2991	PP	.883	.07852
1.918	8457	VV	.114	.22282
2.373	121573	VV	.164	3.19168
2.826	77985	VV	.283	2.04528
3.672	309616	VV	.337	8.12821
4.897	439983	VV	.413	11.54850
5.169	297483	VV	.425	7.80759
5.570	418784	VV	.388	10.99295
6.358	443241	VV	.451	11.63621
7.155	253947	VV	.516	6.66676
8.105	338284	VV	.533	8.66870
9.194	526179	VV	.756	13.81344
11.822	139288	VV	.334	3.65457
13.344	85347	VV	.925	2.24058
14.341	108684	VV	1.058	2.85323
18.721	72754	VB	1.224	1.90998

TOTAL AREA=3809154
MUL FACTOR=1.0000E+00



A-1660

RUN# 9963 NOV 2, 1998 18:32:18

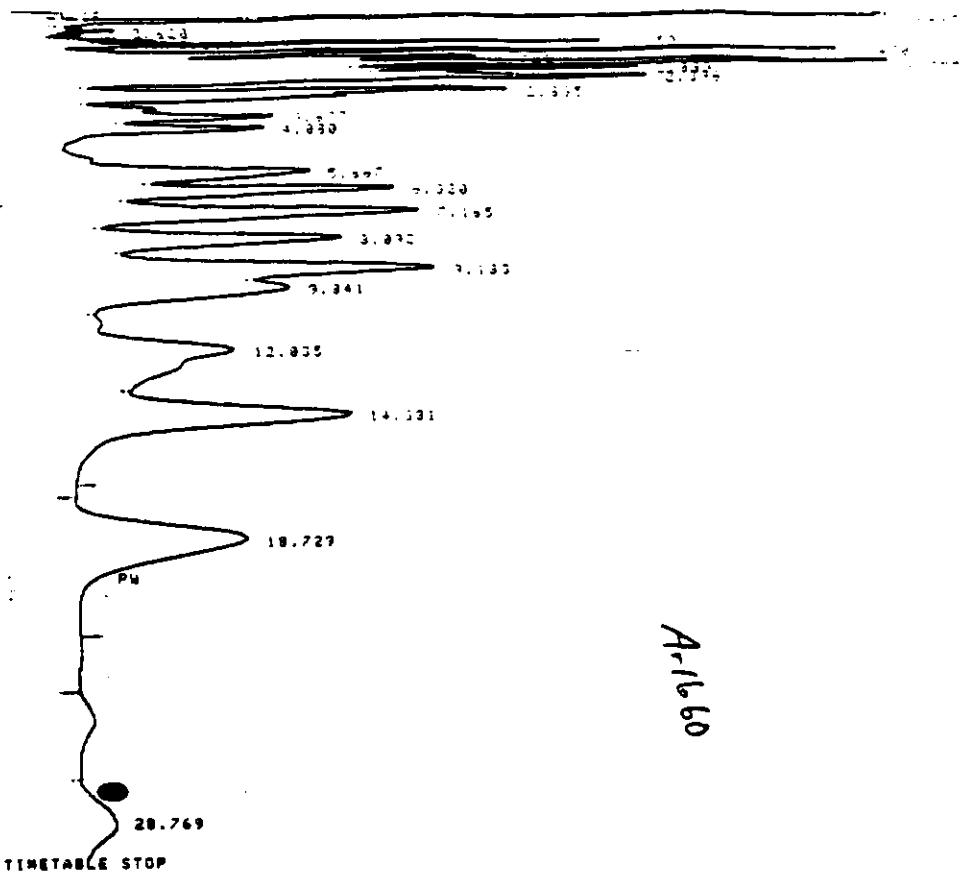
SAMPLE# 10

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.236	187137	PB	.846	5.72714
.620	3383	VV	.851	.10353
.936	4650	PV	.856	.14231
1.819	8295	VV	.864	.25386
1.158	52985	VV	.881	1.62155
1.478	99611	VV	.187	3.04858
1.789	70543	VV	.141	2.15898
1.986	-194171	VV	.123	5.94241
2.889	86651	VV	.125	2.65187
2.396	-192433	VV	.277	5.88922
2.835	-153657	VV	.287	4.70252
3.677	91589	VV	.358	2.80299
4.080	74282	VV	.381	2.27288
5.667	153586	VV	.520	4.70035
6.320	153588	VV	.388	4.70016
7.165	-207704	VV	.494	6.35658
8.892	-170368	VV	.521	5.21394
9.183	-258979	VV	.587	7.88338
9.841	-184545	VV	.781	5.64781
12.835	288134	VV	1.438	8.57322
14.381	-318684	VB	.975	9.75388
18.729	-258484	BB	1.382	7.90828
23.769	66256	I PH	1.938	2.02778

TOTAL AREA=3267547

MUL FACTOR=1.0000E+00



A-1660

RUN# 9963 NOV 2, 1990 13:32:18

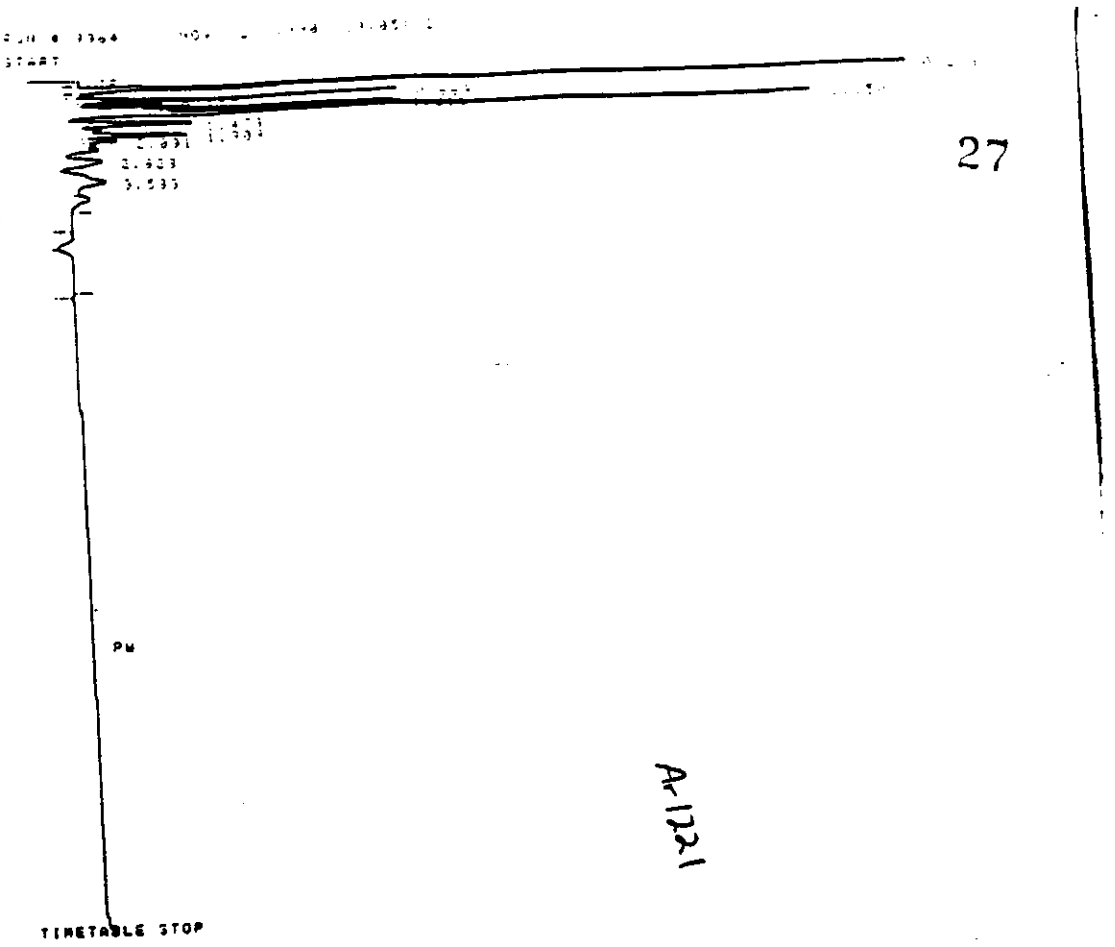
SAMPLE# 10

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.236	187137	PB	.846	5.72714
.620	3383	VV	.851	.10353
.936	4650	PV	.856	.14231
1.019	8295	VV	.864	.25386
1.150	52985	VV	.881	1.62155
1.478	99611	VV	.187	3.04850
1.789	70543	VV	.141	2.15898
1.986	194171	VV	.123	5.94241
2.089	86651	VV	.125	2.65187
2.396	192433	VV	.277	5.88922
2.835	153657	VV	.287	4.70252
3.677	93589	VV	.358	2.86299
4.088	74282	VV	.381	2.27988
5.667	153586	VV	.520	4.70035
6.328	153588	VV	.388	4.70016
7.165	207784	VV	.434	6.35658
8.892	170368	VV	.521	5.21394
9.183	254979	VV	.587	7.80338
9.841	184545	VV	.781	5.64781
12.835	280134	VV	1.438	8.57322
14.381	318684	VB	.375	9.75386
18.729	258484	BB	1.302	7.90828
28.769	66256	PH	1.538	2.02778

TOTAL AREA=3267547

MUL FACTOR=1.0000E+00



A1221

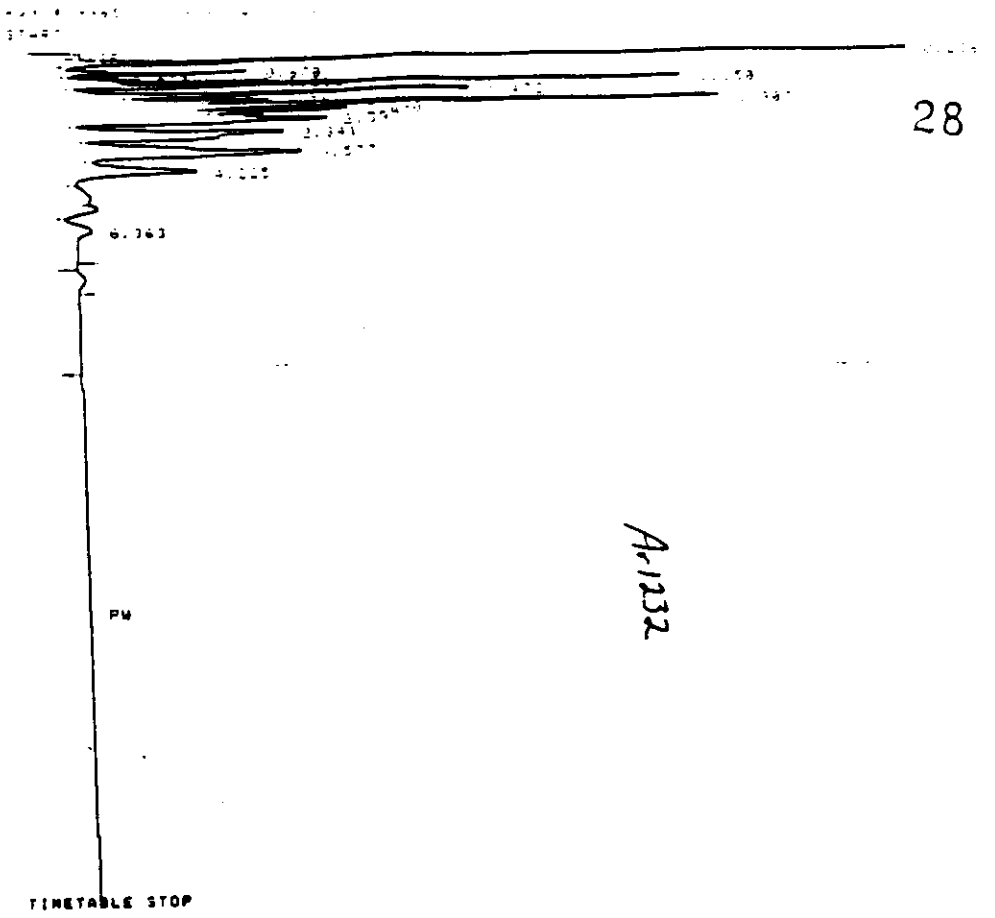
RUN6 3x64 NOV 2, 1998 19:05:12

SAMPLE6 11

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.238	195637	PB	.847	48.71632
.669	21041	PV	.855	5.23958
.827	5223	VV	.849	1.30060
1.816	30886	VV	.881	7.69184
1.150	74074	VP	.885	18.44546
1.478	18381	PV	.127	4.57713
1.989	16908	VV	.118	4.21033
2.091	7299	VV	.121	1.81755
2.828	12417	VP	.263	3.09201
3.583	19718	PV	.485	4.91086

TOTAL AREA= 401504
MUL FACTOR=1.0000E+00



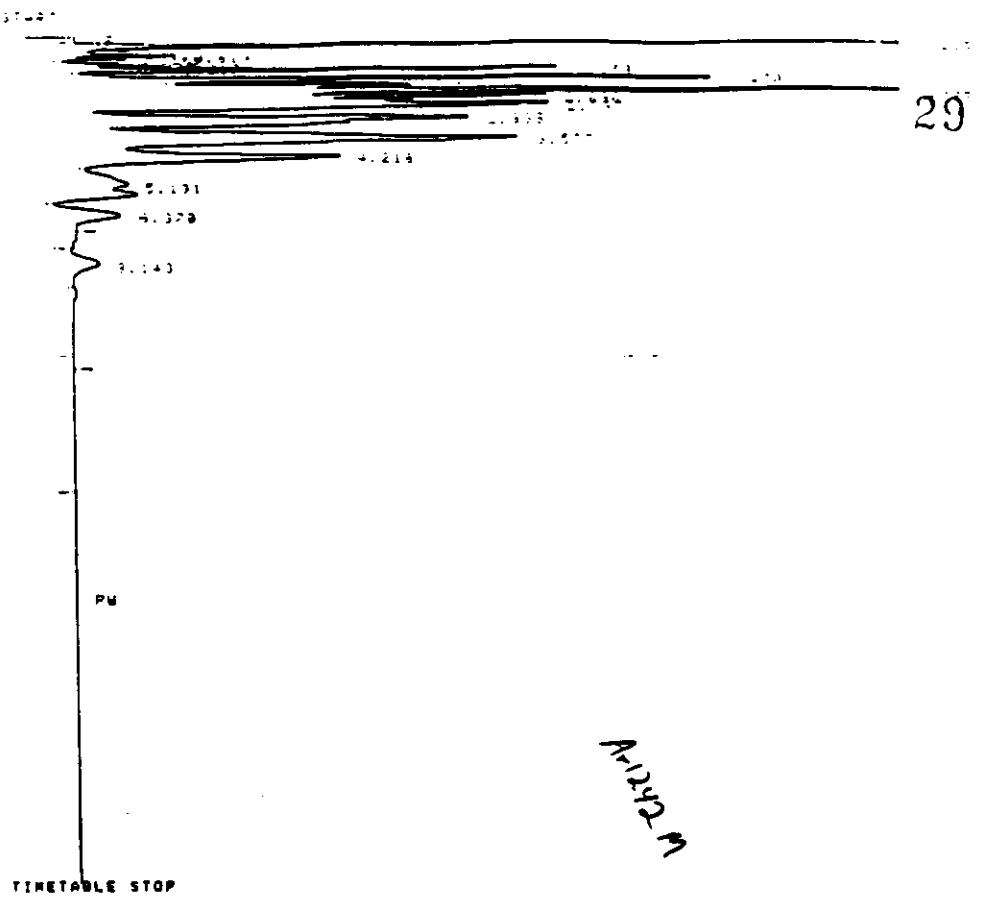
A-1232

RUN# 9965 NOV 2, 1998 19:37:56
SAMPLE# 12

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.236	165764	PB	.046	20.77777
.670	12426	PV	.090	1.55754
.827	3022	VV	.049	.37879
.935	4548	VV	.052	.57007
1.016	14875	VV	.062	1.86451
1.150	59469	VV	.082	7.45417
1.472	52010	VV	.110	6.51922
1.711	32719	VV	.130	4.10116
1.907	93163	VV	.122	11.67756
2.090	41015	VV	.124	5.14184
2.397	83843	VV	.275	10.50934
2.841	75385	VV	.295	9.44917
3.277	94278	VV	.342	11.81632
4.225	49311	VV	.322	6.18091
6.343	15975	PB	.559	2.00240

TOTAL AREA= 797795
AUL FACTOR=1.0000E+00



TIMETABLE STOP

RUN# 9976 NOV 3, 1998 12:49:26

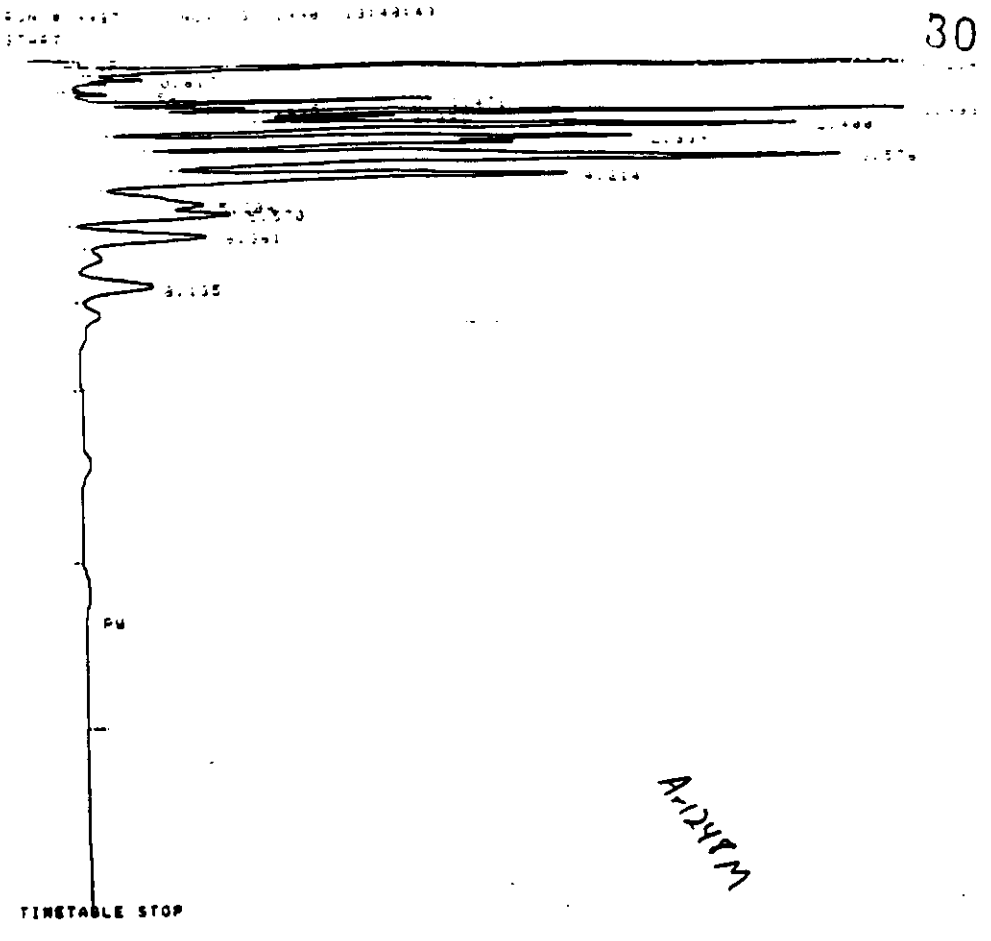
SAMPLE# 23

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.235	169575	PB	.898	12.98285
.619	6565	PV	.857	.50262
.752	3792	VP	.856	.29832
.937	3754	PV	.855	.28741
1.017	7478	VV	.861	.57252
1.158	47475	VV	.881	3.63474
1.478	82114	VV	.188	6.28674
1.718	57458	VV	.148	4.39985
1.986	158535	VV	.133	12.13762
2.898	71728	VV	.125	5.49896
2.397	158271	VV	.278	12.11748
2.838	145668	VV	.385	11.15189
3.577	192531	VV	.359	14.74839
4.218	113467	VV	.342	8.68716
5.191	45597	VV	.531	3.49896
6.378	27847	PB	.484	2.13288
8.143	14387	PV	.433	1.89536

TOTAL AREA=1306146

MUL FACTOR=1.0000E+00



A-1248M

RUN# 9987. NOV 3, 1998 18:48:49

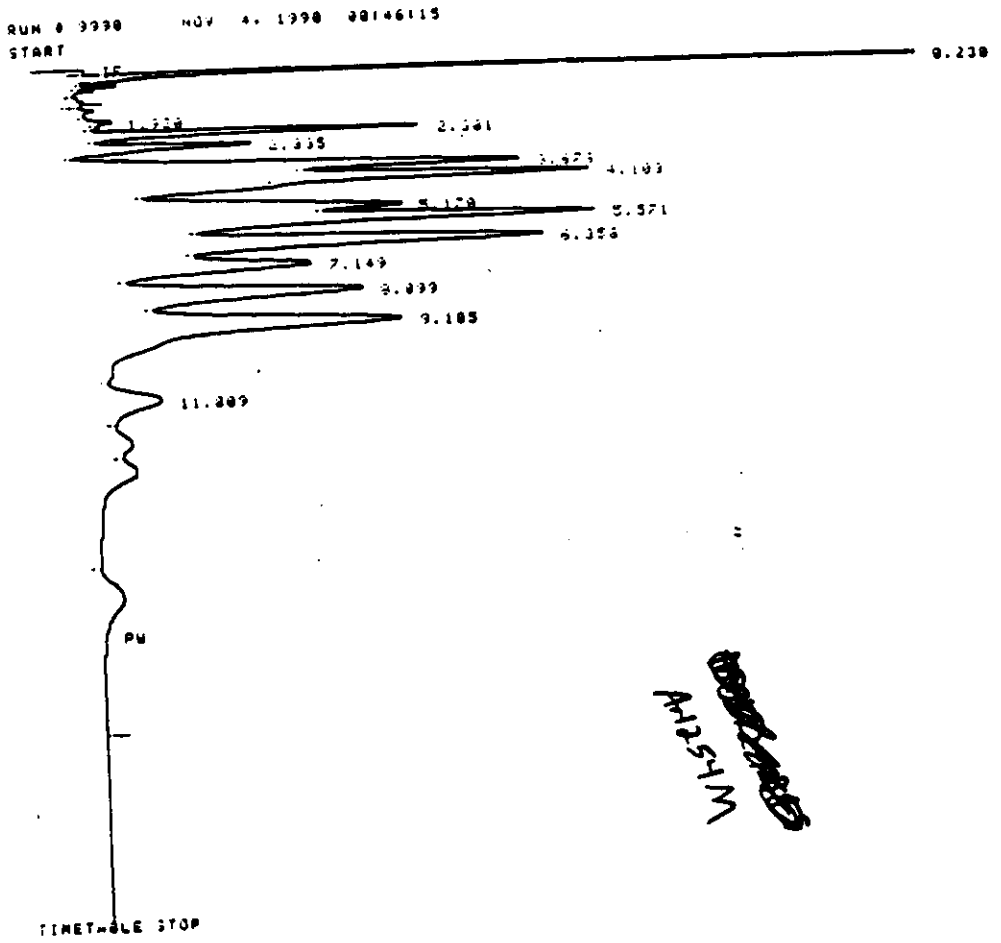
SAMPLE# 34

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.234	207857	PB	.858	12.96132
.617	3409	VP	.859	.21348
1.154	2311	PP	.861	.14466
1.471	39968	PV	.895	2.50191
1.695	27654	VV	.138	1.73188
1.988	131287	VV	.118	8.21327
2.091	47033	VV	.125	2.94416
2.488	192948	VV	.229	12.07812
2.839	203228	VV	.312	12.72113
3.576	319894	VV	.358	20.02466
4.214	189636	VV	.331	11.87888
5.284	70591	VV	.481	4.41884
5.578	61025	VB	.341	3.82083
6.361	60275	PV	.399	3.77388
8.135	41272	VV	.462	2.58354

TOTAL AREA=1597598

AUL FACTOR=1.0000E+00



RUN 9998 NOV 4, 1998 00146115

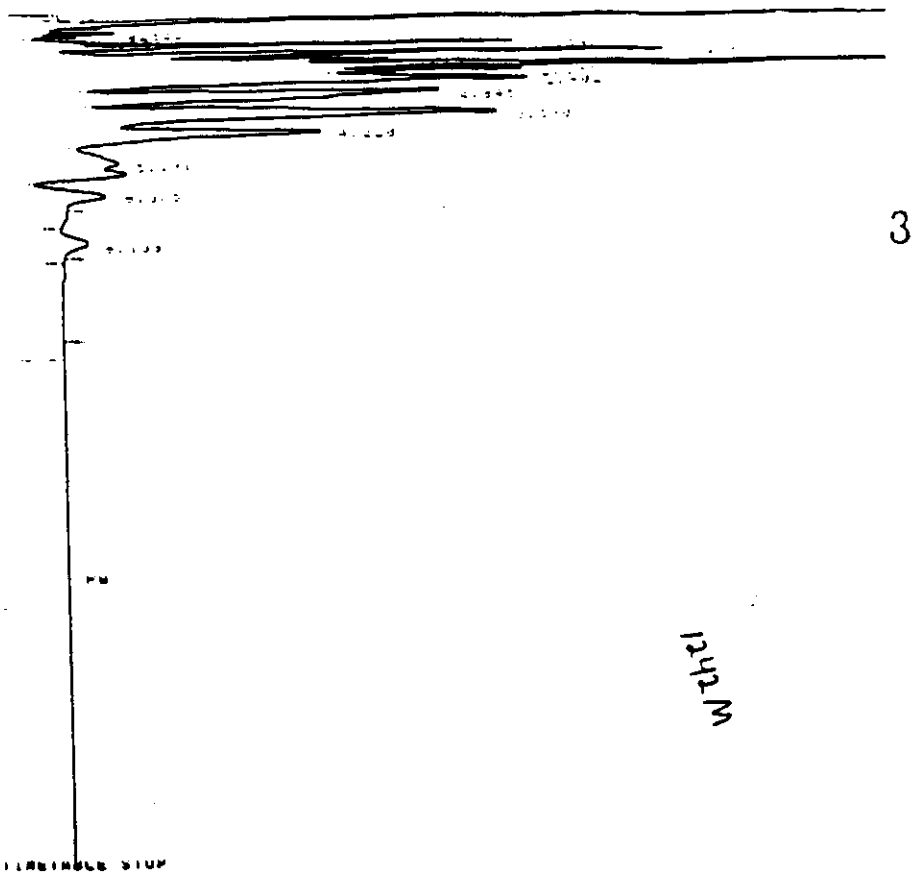
SAMPLE# 45

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.238	134284	PB	.052	0.71161
1.928	7481	VV	.138	.03965
2.381	49586	VV	.174	1.28953
2.835	45633	VP	.216	2.15728
3.678	170348	PV	.344	8.43864
4.183	256121	VV	.423	12.18757
5.178	164596	VV	.422	7.78892
5.571	237351	VV	.337	11.25852
6.356	250419	VV	.464	11.83282
7.149	147068	VV	.555	6.95289
8.039	135347	VV	.593	6.73213
9.185	303419	VV	.816	14.34344
11.389	74443		.925	3.93136

TOTAL AREA=2115573

MUL FACTOR=1.000E+00



WTh?!

TIMEINGLE STOP

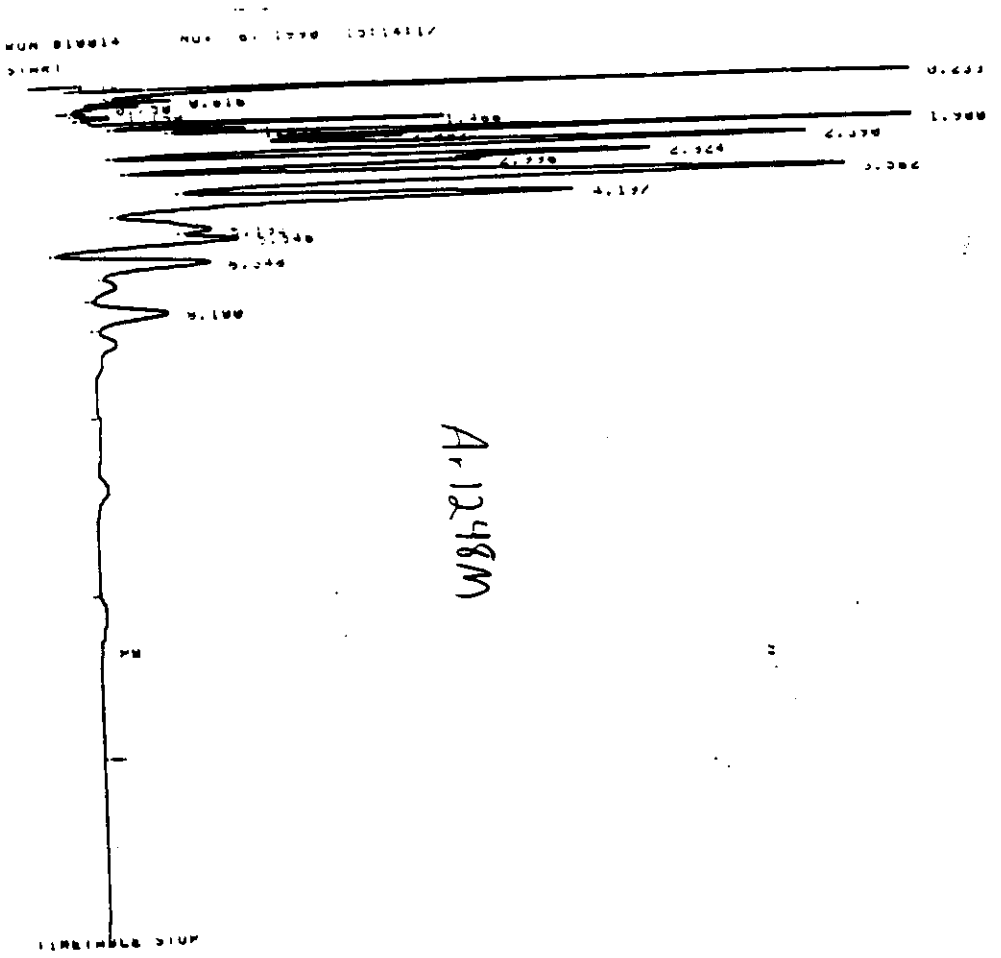
RUNG 10003. NOV 4, 1998 13:22:38

SAMPLES 5

MI	AREA	TYPE	WIDTH	AREA%
.438	1/3136	BV	.034	14.69466
.644	3849	VV	.037	.36343
.736	3118	VM	.063	.44364
.941	4766	MV	.037	.47498
1.134	38933	VV	.183	4.47334
1.479	47988	VV	.113	5.47148
1.715	68814	VV	.143	6.47184
1.911	164388	VV	.134	11.98979
2.095	73488	VV	.134	5.45142
2.484	164177	VV	.494	14.17844
2.845	149869	VV	.314	10.88549
3.388	284834	VV	.388	14.84716
4.429	125473	VV	.374	9.14399
5.191	54815	VV	.331	3.97364
6.375	47788	MB	.419	2.15747
8.156	13488	MB	.428	.9 147

TOTAL AREA=1379884

AUL FACTOR=1.00000E+00



TIMEINBLE STOP

RUN# 10014 NOV 8, 1990 13:14:17

SAMPLE# 11

RT	AREA	TYPE	WIDTH	AREA%
.434	298644	PB	.069	11.73447
.615	3438	VP	.041	.13888
.736	3878	PB	.053	.21182
1.139	3378	VV	.074	.19654
1.400	69978	VV	.184	2.73489
1.674	47813	VV	.141	1.87214
1.989	13388	VV	.114	.71494
2.065	49481	VV	.148	2.03851
2.438	1993.8	VV	.431	11.48983
2.664	14641	VV	.134	.83488
2.778	1038	VV	.183	4.37437
3.386	31141	VV	.383	14.88388
4.174	28794	VV	.349	11.98398
5.134	7848	VV	.589	3.38343
5.348	4428	VP	.352	4.31737
6.343	1113	PV	.444	4.33441
7.188	5.38	VV	.5..	4.53838

TOTAL AREA=1.32433

MUL MULTIPLE=1.00000+000

8

PCB EVALUATION STANDARDS SUMMARY

LAB NAME: WESTON CONTRACT:
LAB CODE: 11069006 CASE NO: SAS NO: SDG NO:
INSTRUMENT ID: 06 GC COLUMN ID: 2250/2401

EVALUATION CHECK FOR LINEARITY

DATES OF ANALYSIS: 11/06/90 TO 11/06/90

AR1242 LAB SAMPLE ID	AR1242 CALIBRATION FACTOR	AR1248 LAB SAMPLE ID	AR1248 CALIBRATION FACTOR	AR1254 LAB SAMPLE ID	AR1254 CALIBRATION FACTOR
14-01	939025.	09-03	984252.	13-07	770333.
15-01	950931.	10-03	1063020.	14-07	722235.
16-01	737052.	11-03	810043.	15-07	661926.
	% RSD = 13.7		% RSD = 13.6		% RSD = 7.6

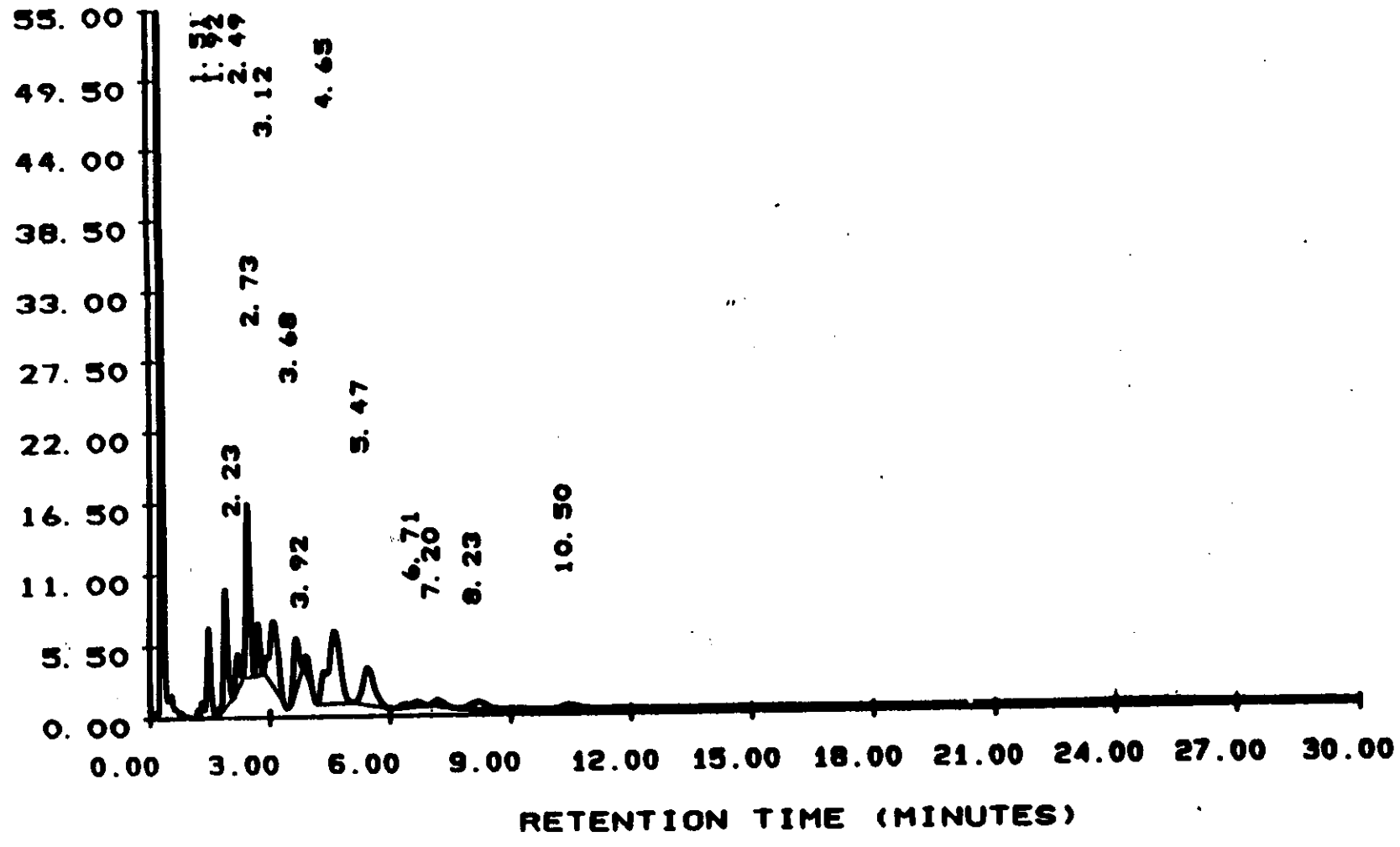
CONTINUING CALIBRATION SUMMARY

STANDARD	DATE ANALYZED	TIME ANALYZED	CALIBRATION FACTOR	DATE ANALYZED	TIME ANALYZED	CALIBRATION FACTOR	% DEVIATION
AR1242	11/06/90	18:09:42	950931.	11/07/90	05:03:12	983731.	3.4
AR1248	11/06/90	19:47:57	1063020.	11/07/90	22:49:04	1126733.	6.0
AR1254	11/06/90	21:26:18	722235.	11/08/90	01:00:17	728944.	0.9

AR1242L 14-01

SAMPLE NO. : 11069006 .06
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 17:36:58
PAGE NO. : 01



Y MAXIMUM: 13975.
Y MINIMUM: 2405.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/06/90 18:07:32

EXTERNAL STANDARD

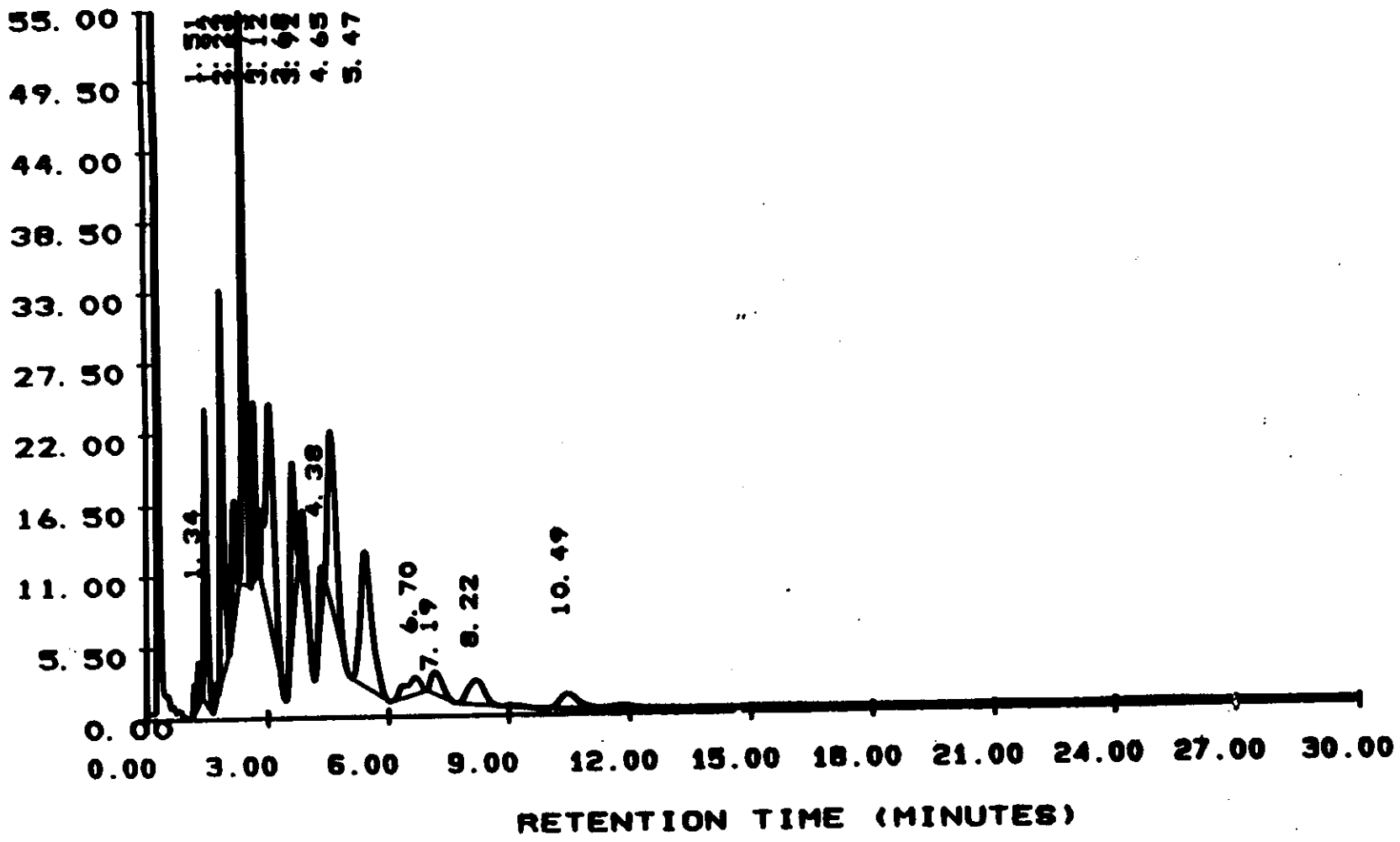
SAMPLE: 11069006 .06 INST:06 VIAL: 0 SEQ NUMBER:006
TEST : DATE-TIME INJECTED : 11/06/90 17:36:58
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/06/90 18:07:32
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1242L 14-0 RAW FILE: RAW2:K6041423
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	102011	13209	V	1.510			
002	120645	17755	V	1.923			
003	37617	5154	V	2.228			
004	191305	27086	V	2.493			
005	52358	8247	V	2.728			
006	160742	11356	V	3.119			
007	66355	7309	V	3.681			
008	31927	3658	V	3.923			
009	255946	11806	V	4.653			
010	117427	6164	V	5.473			
011	21193	734	V	6.707			
012	19365	1041	V	7.199			
013	33922	1132	V	8.228			
014	27714	677		10.500			
					1	DBC	

AR1242M 15-01

SAMPLE NO. : 11069006 .07
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 18:09:42
PAGE NO. : 01



Y MAXIMUM: 10184.
Y MINIMUM: 2394.

START TIME: 0.00
END TIME: 30.00

EXTERNAL STANDARD

SAMPLE: 11069006 .07 INST:06 VIAL: 0 SEQ NUMBER:007
TEST :
COLLECTION TIME : 29.98
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL
CLIENT ID:
CLIENT:
LAB ID: AR1242M 15-0
SAMPLE WT : % MOISTURE :

DATE-TIME INJECTED : 11/06/90 18:09:42
DATE-TIME PROCESSED : 11/06/90 18:40:06
SAMP RATE: 0.78
SAMPLE VOL: 3.0 ul
COLUMN TYPE: 2250/2401
RAW FILE: RAW2:K6041461
DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	27655	3571	V	1.335			
002	179760	29377	V	1.508			
003	269450	39182	V	1.921			
004	89816	12005	V	2.225			
005	434628	61978	V	2.491			
006	117671	18806	V	2.726			
007	370048	25408	V	3.117			
008	149820	16263	V	3.679			
009	80892	9214	V	3.922			
010	39842	4246	V	4.380			
011	273286	19889	V	4.649			
012	285530	15120	V	5.469			
013	53172	1833	V	6.700			
014	46510	2540	V	7.195			
015	82593	2791	V	8.222			
016	66848	1685		10.489			

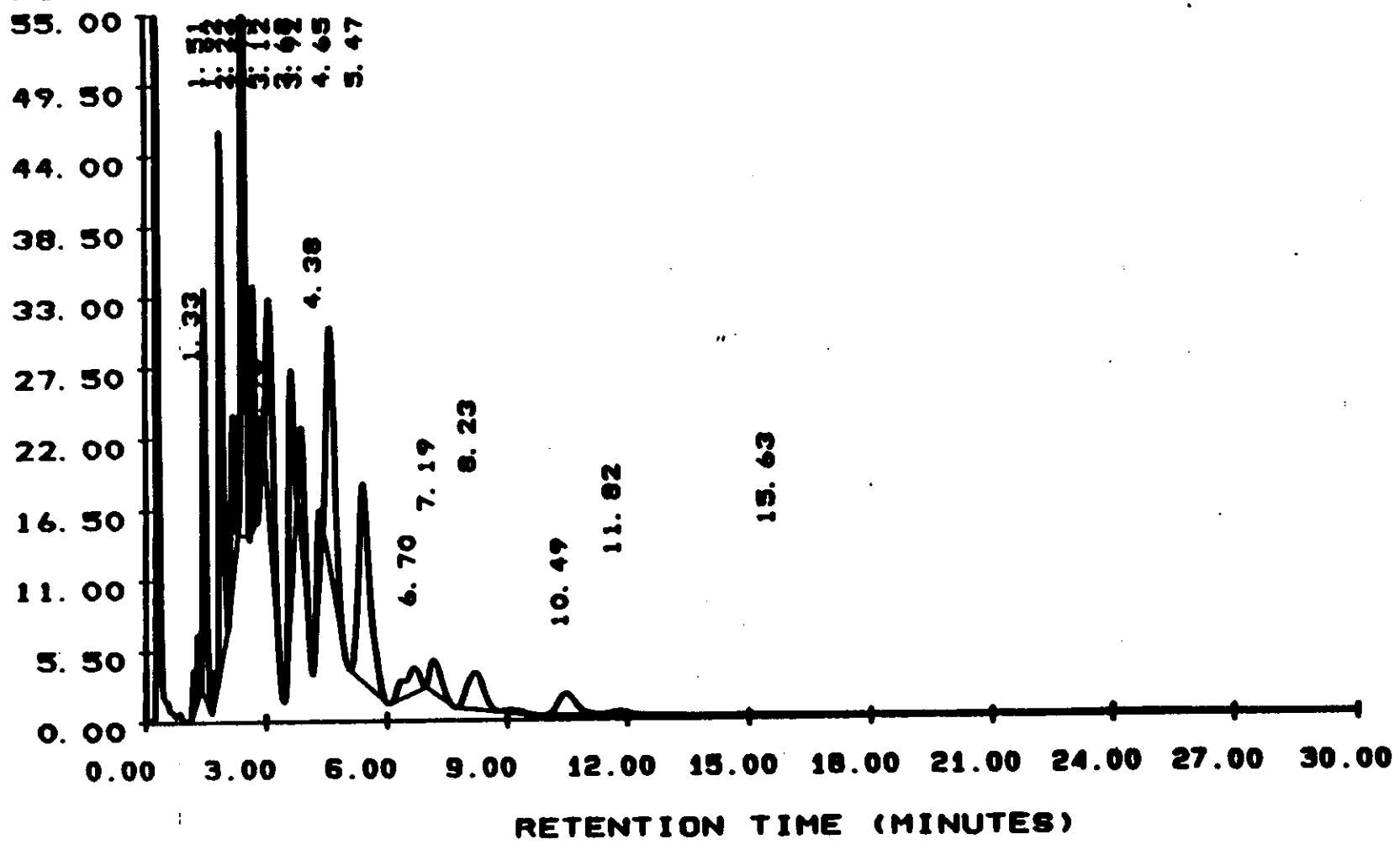
1 DBC

39

AR1242H 16-01

SAMPLE NO. : 11069006 .08
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 18:42:26
PAGE NO. : 01



Y MAXIMUM: 12636.
Y MINIMUM: 2398.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/06/90 19:13:00

4C

EXTERNAL STANDARD

SAMPLE: 11069006 .08 INST:06 VIAL: 0 SEQ NUMBER:008
TEST : DATE-TIME INJECTED : 11/06/90 18:42:26
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/06/90 19:13:00
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1242H 16-0 RAW FILE: RAW2:K6041487
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	55134	7149	V	1.334			
002	329412	53932	V	1.507			
003	484985	71150	V	1.919			
004	169449	22090	V	2.222			
005	792261	112741	V	2.490			
006	209686	33868	V	2.725			
007	36180	6159	V	2.926			
008	354764	34397	V	3.117			
009	276327	29604	V	3.678			
010	157987	17862	V	3.923			
011	75484	7914	V	4.380			
012	497710	35985	V	4.650			
013	551779	29128	V	5.469			
014	104262	3600	V	6.703			
015	91639	4967	V	7.195			
016	168266	5522	V	8.225			
017	100639	3252	V	10.495			
018	14478	499		11.819			
019	7039	81		15.627			

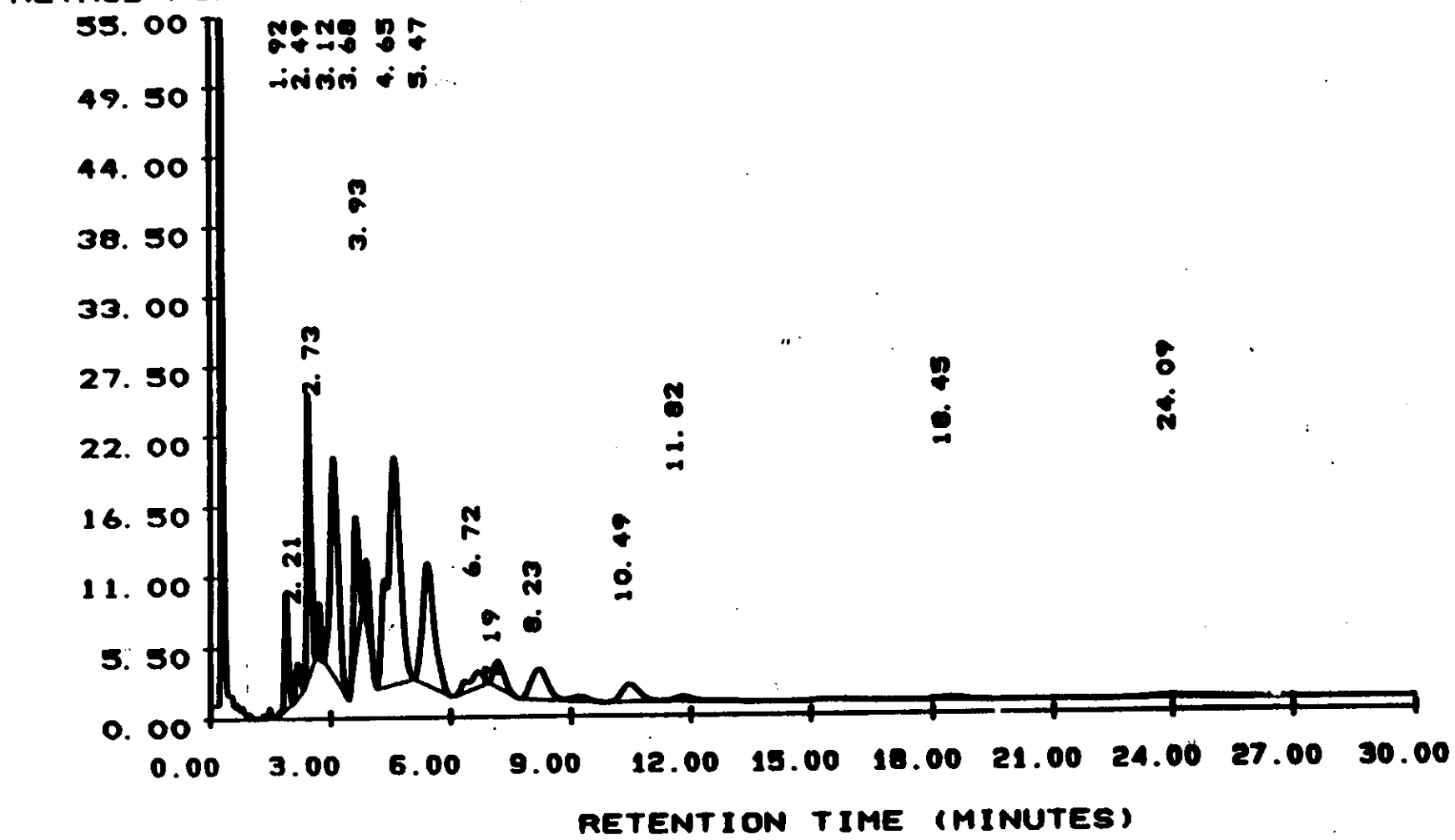
1 DBC

41

AR1248L 09-03

SAMPLE NO. : 11069006 .09
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 19:15:12
PAGE NO. : 01



Y MAXIMUM: 8562.
Y MINIMUM: 2304.

START TIME: 0.00
END TIME: 30.00

EXTERNAL STANDARD

SAMPLE: 11069006 .09 INST:06 VIAL: 0 SEQ NUMBER:009
TEST : DATE-TIME INJECTED : 11/06/90 19:15:12
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/06/90 19:45:46
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1248L 09-0 RAW FILE: RAW2:K6041511
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	62822	9606	V	1.922			
002	24909	3033	V	2.212			
003	173538	23947	V	2.493			
004	30418	4884	V	2.727			
005	264213	19659	V	3.121			
006	99019	10929	V	3.678			
007	53554	6196	V	3.925			
008	450693	20068	V	4.652			
009	215186	10930	V	5.467			
010	38609	1345	V	6.721			
011	41246	2268	V	7.195			
012	91194	2764	V	8.233			
013	48842	1595	V	10.490			
014	18912	447		11.823			
015	12878	250		18.453			
016	10414	140		24.088			

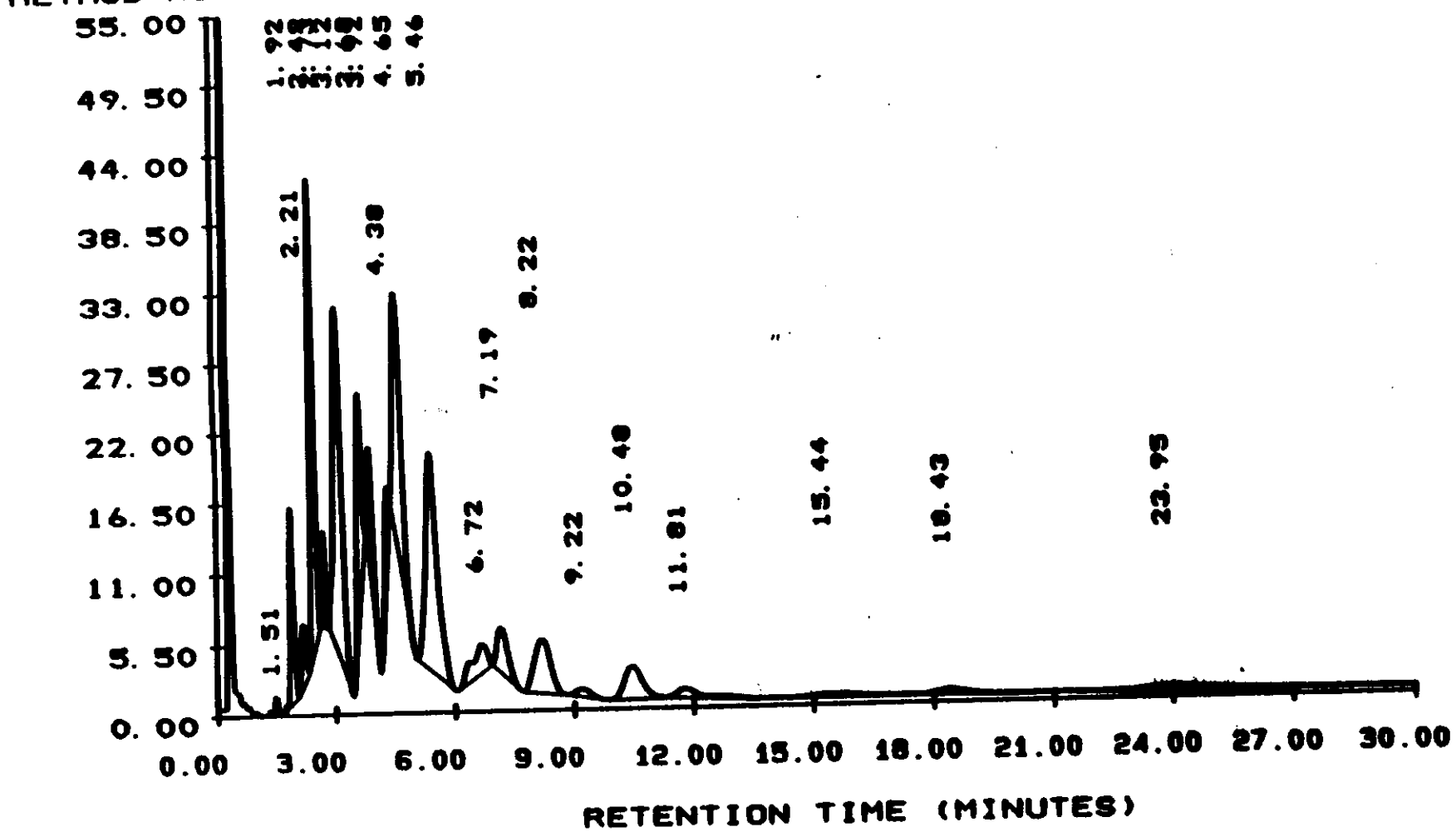
1 DBC

43

AR1248M 10-03

SAMPLE NO. : 11069006 .10
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 19:47:57
PAGE NO. : 01



Y MAXIMUM: 11657.
Y MINIMUM: 2319.

START TIME: 0.00
END TIME: 30.00

EXTERNAL STANDARD

SAMPLE: 11069006 .10 INST:06 VIAL: 0 SEQ NUMBER:010
TEST : DATE-TIME INJECTED : 11/06/90 19:47:57
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/06/90 20:18:31
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1248M 10-0 RAW FILE: RAW2:K6041535
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	15848	2212	V	1.513			
002	157564	23992	V	1.919			
003	65619	7985	V	2.207			
004	437973	60508	V	2.491			
005	75273	12265	V	2.726			
006	642014	46862	V	3.118			
007	246036	26558	V	3.675			
008	147599	16861	V	3.924			
009	75287	7731	V	4.381			
010	486399	35005	V	4.648			
011	569910	29051	V	5.463			
012	105450	3744	V	6.715			
013	109949	6043	V	7.188			
014	197995	7237	V	8.224			
015	27062	1084	V	9.218			
016	136374	4449	V	10.484			
017	53746	1244	V	11.807			
018	32195	422	V	15.445			
019	35050	687		18.426			
020	45153	505		23.945			

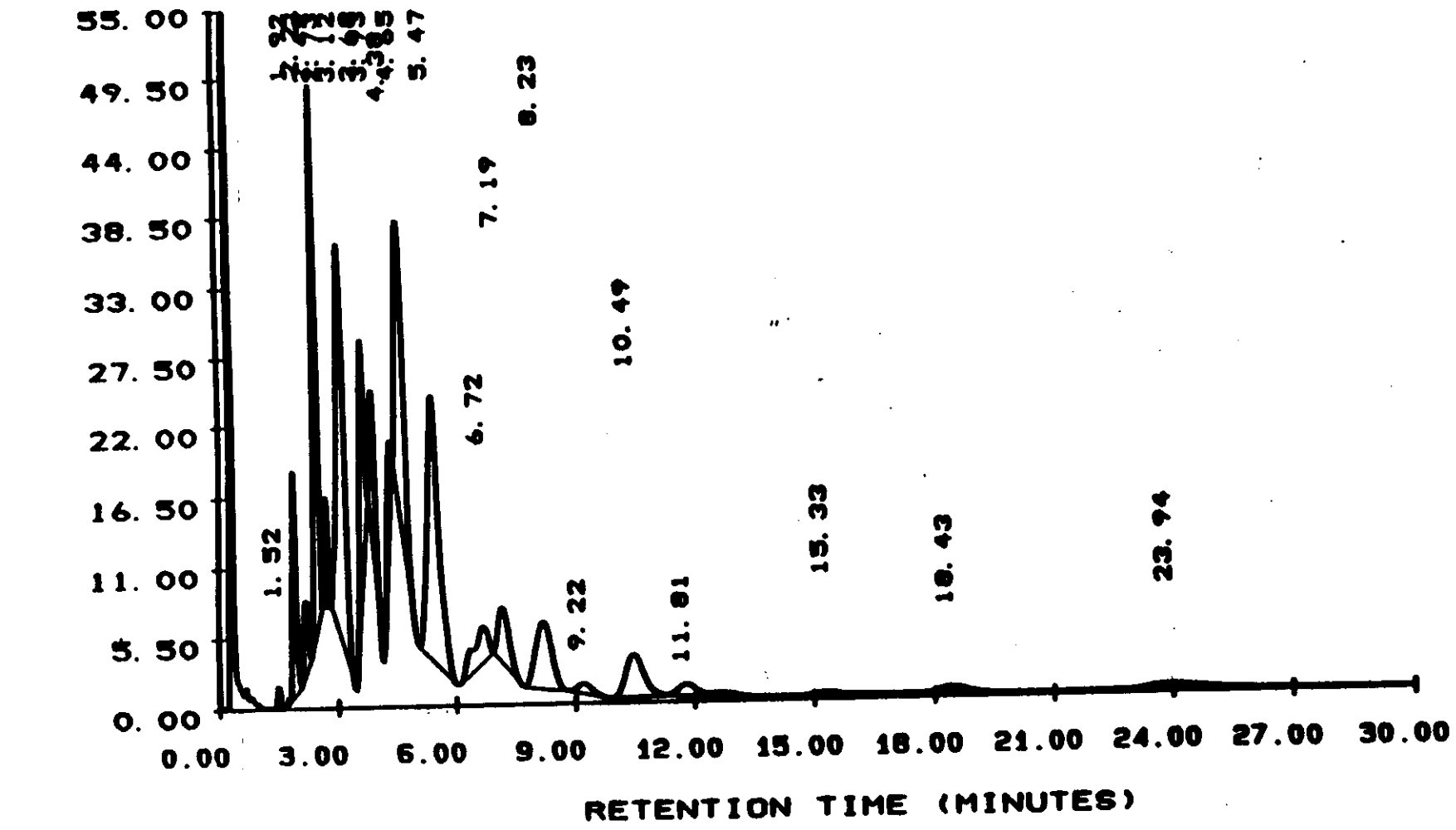
1 DBC

45

AR1248H 11-03

SAMPLE NO. : 11069006 .11
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 20:20:46
PAGE NO. : 01



Y MAXIMUM: 15818.
Y MINIMUM: 2372.

START TIME: 0.00
END TIME: 30.00

EXTERNAL STANDARD

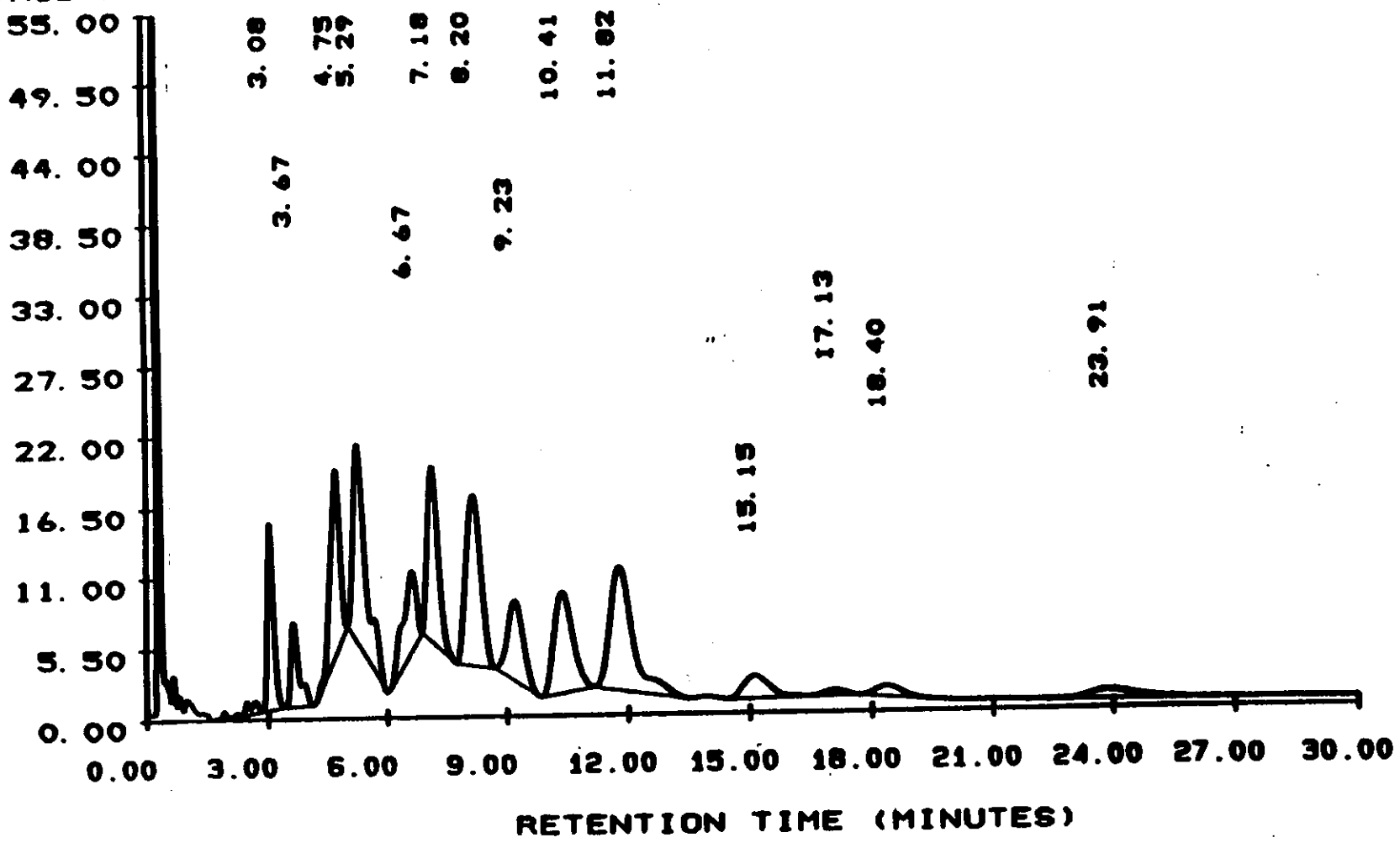
SAMPLE: 11069006 .11 INST:06 VIAL: 0 SEQ NUMBER:011
TEST : DATE-TIME INJECTED : 11/06/90 20:20:46
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/06/90 20:51:20
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1248H 11-0 RAW FILE: RAW2:K6041556
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	22808	3888	V	1.515			
002	264957	40128	V	1.922			
003	113715	13913	V	2.209			
004	739464	101476	V	2.493			
005	125772	20360	V	2.728			
006	1058141	76807	V	3.121			
007	403908	43908	V	3.677			
008	265770	31575	V	3.927			
009	127373	13393	V	4.383			
010	811838	59324	V	4.651			
011	999936	51120	V	5.466			
012	188481	6731	V	6.719			
013	195330	10904	V	7.191			
014	354220	12844	V	8.227			
015	49751	197[illegible]	V	9.218			
016	249414	8140	V	10.486			
017	96863	2250	V	11.812			
018	40038	629	V	15.326			
019	64457	1253		18.430			
020	81810	914		23.936			
						1 DBC	

AR1254L 13-07

SAMPLE NO. : 11069006 . 12
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 20:53:33
PAGE NO. : 01



Y MAXIMUM: 6852.
Y MINIMUM: 2370.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/06/90 21:23:57

EXTERNAL STANDARD

SAMPLE: 11069006 .12
TEST :
COLLECTION TIME : 29.98
METHOD: PCB06 / PCB06 REV #: 00049
CLIENT ID:
CLIENT:
LAB ID: AR1254L 13-0
SAMPLE WT : % MOISTURE :

INST:06 VIAL: 0 SEQ NUMBER:012
DATE-TIME INJECTED : 11/06/90 20:53:33
DATE-TIME PROCESSED : 11/06/90 21:23:57
ANALYST: HOHL SAMP RATE: 0.78
SAMPLE VOL: 3.0 ul
COLUMN TYPE: 2250/2401
RAW FILE: RAW2:K6041579
DILUTION FACTOR : 1.0000

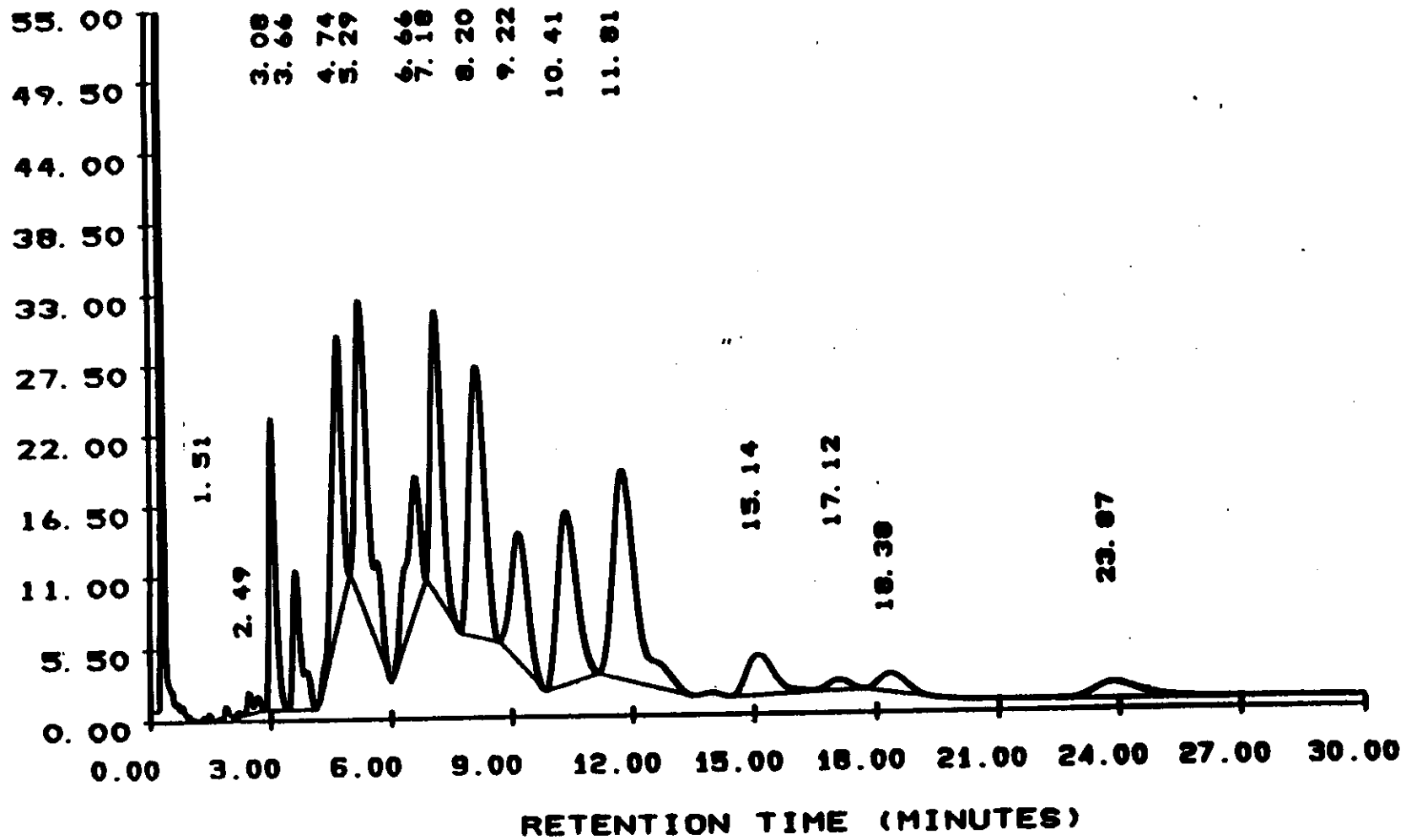
PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	140582	11802	V	3.083			
002	72006	5294	V	3.666			
003	192067	11548	V	4.749			
004	273690	12841	V	5.294			
005	118416	4958	V	6.667			
006	206551	11214	V	7.183			
007	272726	10861	V	8.202			
008	134090	5116	V	9.228			
009	200034	6372	V	10.411			
010	299493	7812	V	11.816			
011	64030	1446	V	15.147			
012	12970	364	V	17.128			
013	31132	676		18.395			
014	44493	575		23.912			

1 DBC

AR1254M 14-07

SAMPLE NO. : 11069006 . 13
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 21:26:18
PAGE NO. : 01



Y MAXIMUM: 8947.
Y MINIMUM: 2331.

START TIME: 0.00
END TIME: 30.00

- Lionville Laboratory 11/06/90 21:56:46

EXTERNAL STANDARD

INST:06 VIAL: 0 SEQ NUMBER:013
DATE-TIME INJECTED : 11/06/90 21:26:18
DATE-TIME PROCESSED : 11/06/90 21:56:46
REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
SAMPLE VOL: 3.0 ul
COLUMN TYPE: 2250/2401
RAW FILE: RAW2:K6041599
% MOISTURE : DILUTION FACTOR : 1.0000

BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
V	1.507			
V	2.488			
V	3.079			
V	3.661			
V	4.743			
V	5.289			
V	6.662			
V	7.177			
V	8.197			
V	9.221			
V	10.406			
V	11.808			
V	15.137			
V	17.118			
	18.384			
	23.872			

1 DBC

50

SAMPLE NO.: 11069006 .14
TEST NO.:
METHOD NO.: PCB06 / METH1
55.00
3.08
3.44
4.75
5.67
5.20
6.23
7.42
8.82

51

AR1254H

15-07
INSTRUMENT: 06
DATE TIME: 11/06/90 21:59:02
PAGE NO.: 01

EXTERNAL STANDARD

SAMPLE: 11069006 .14 INST:06 VIAL: 0 SEQ NUMBER:014
TEST :
COLLECTION TIME : 29.98 DATE-TIME INJECTED : 11/06/90 21:59:02
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL DATE-TIME PROCESSED : 11/06/90 22:29:27
CLIENT ID: SAMP RATE: 0.78
CLIENT: SAMPLE VOL: 3.0 ul
LAB ID: AR1254H 15-0 COLUMN TYPE: 2250/2401
SAMPLE WT : % MOISTURE : RAW FILE: RAW2:K6041619
DILUTION FACTOR : 1.0000

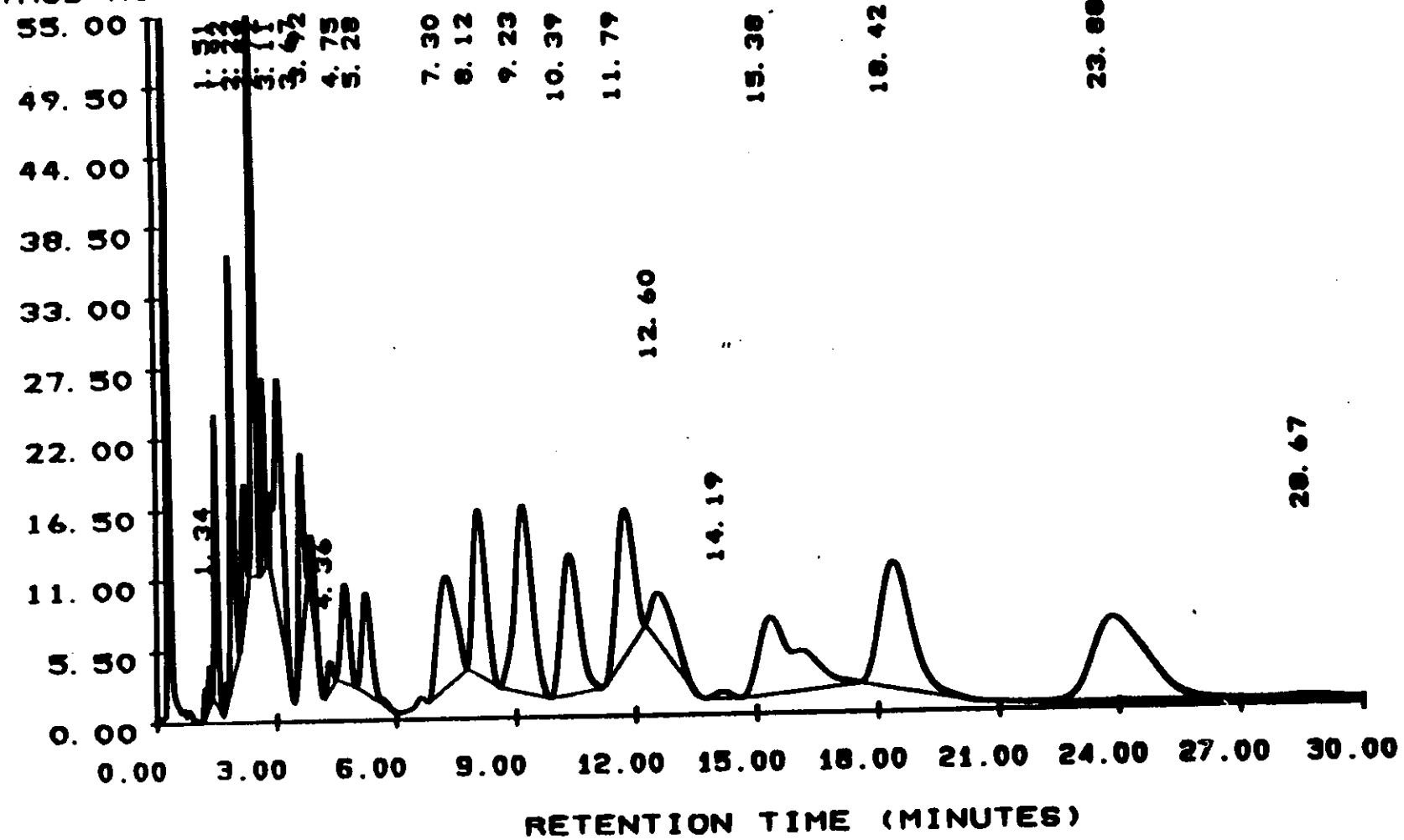
PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	10140	1282	V	1.509			
002	14259	2015	V	1.922			
003	27645	3443	V	2.491			
004	10799	1567	V	2.724			
005	515930	47926	V	3.081			
006	329869	23517	V	3.664			
007	810574	46423	V	4.746			
008	1121057	50205	V	5.293			
009	553227	23340	V	6.668			
010	918475	49636	V	7.182			
011	1181025	46009	V	8.204			
012	604359	22474	V	9.228			
013	980252	30700	V	10.417			
014	1443221	37068	V	11.818			
015	17222	654	V	13.967			
016	326369	7300	V	15.151			
017	67553	1833	V	17.139			
018	157571	3397		18.393			
019	242036	2968		23.913			
					1	DBC	

53

AR1660 12-31

SAMPLE NO. : 11069006 .15
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 22:31:49
PAGE NO. : 01



Y MAXIMUM: 11376.
Y MINIMUM: 2358.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/06/90 23:02:23 54

EXTERNAL STANDARD

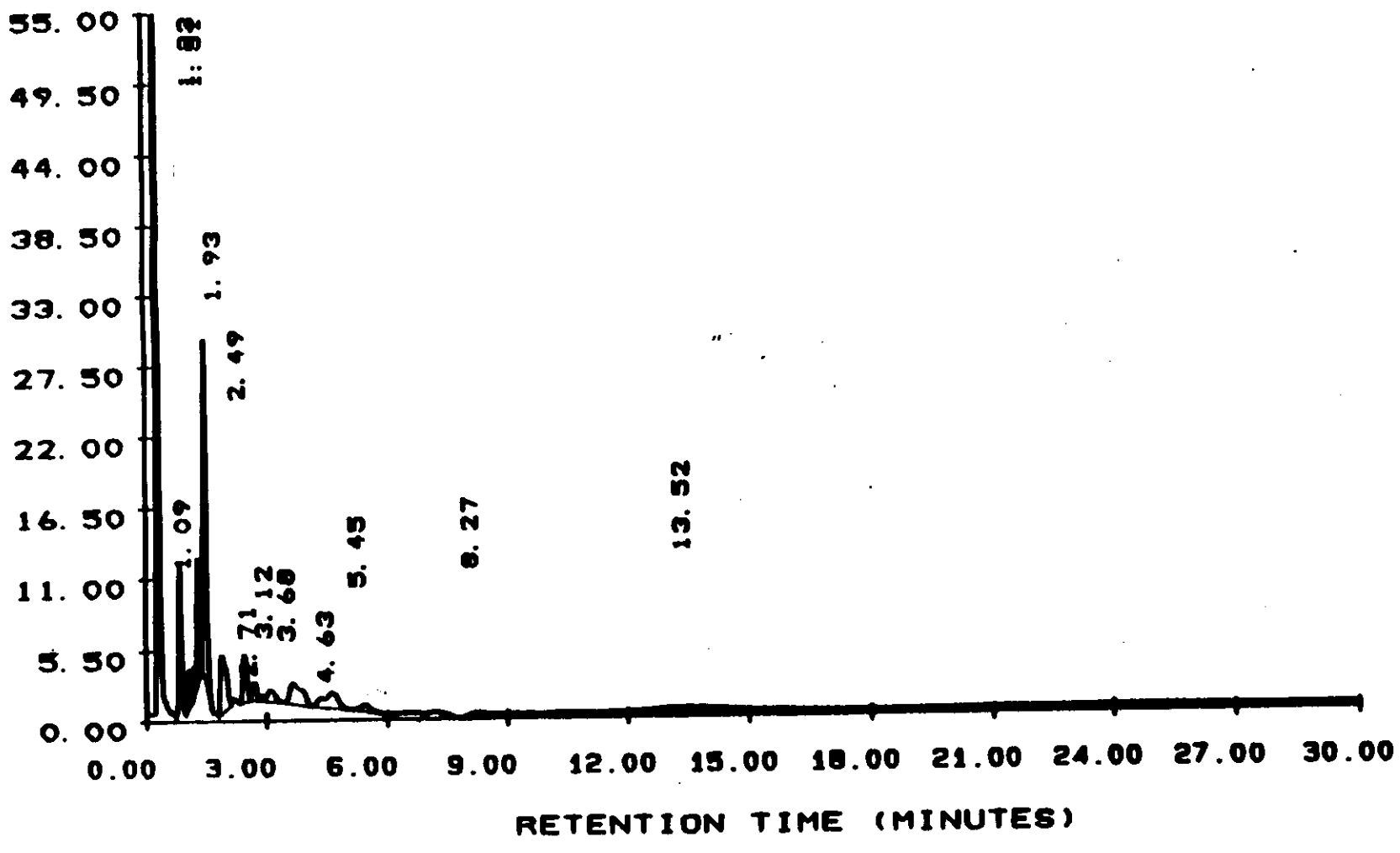
SAMPLE: 11069006 .15 INST:06 VIAL: 0 SEQ NUMBER:015
TEST : DATE-TIME INJECTED : 11/06/90 22:31:49
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/06/90 23:02:23
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1660 12-31 RAW FILE: RAW2:K6041636
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	29306	3812	V	1.337			
002	204261	33527	V	1.508			
003	339562	49759	V	1.919			
004	116935	15228	V	2.223			
005	548314	78253	V	2.489			
006	145227	23464	V	2.724			
007	472482	31624	V	3.113			
008	203743	21677	V	3.673			
009	83663	10100	V	3.920			
010	30797	3369	V	4.365			
011	165950	12576	V	4.752			
012	200095	12922	V	5.276			
013	410526	13768	V	7.302			
014	445693	21217	V	8.120			
015	688994	23910	V	9.232			
016	516990	17669	V	10.387			
017	518440	18269	V	11.792			
018	251827	6455	V	12.595			
019	23027	854	V	14.189			
020	642560	9659	V	15.380			
021	836873	15958		18.423			
022	976883	10541	V	23.883			
023	22786	322		28.672			
						1 DBC	

AR1221 07-02

SAMPLE NO. : 11069006 .16
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 23:04:42
PAGE NO. : 01



Y MAXIMUM: 12393.
Y MINIMUM: 2349.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/06/90 23:35:16 56

EXTERNAL STANDARD

SAMPLE: 11069006 .16 INST:06 VIAL: 0 SEQ NUMBER:016
TEST : DATE-TIME INJECTED : 11/06/90 23:04:42
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/06/90 23:35:16
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1221 07-02 RAW FILE: RAW2:K6041658
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	15706	4037	V	1.094			
002	73793	13590	V	1.333			
003	269954	44915	V	1.505			
004	76923	7846	V	1.931			
005	42325	6430	V	2.489			
006	16861	2532	V	2.714			
007	23721	1629	V	3.118			
008	60694	3027	V	3.676			
009	57711	2270	V	4.634			
010	16705	936	V	5.446			
011	60074	689	V	8.267			
012	57652	500		13.525			

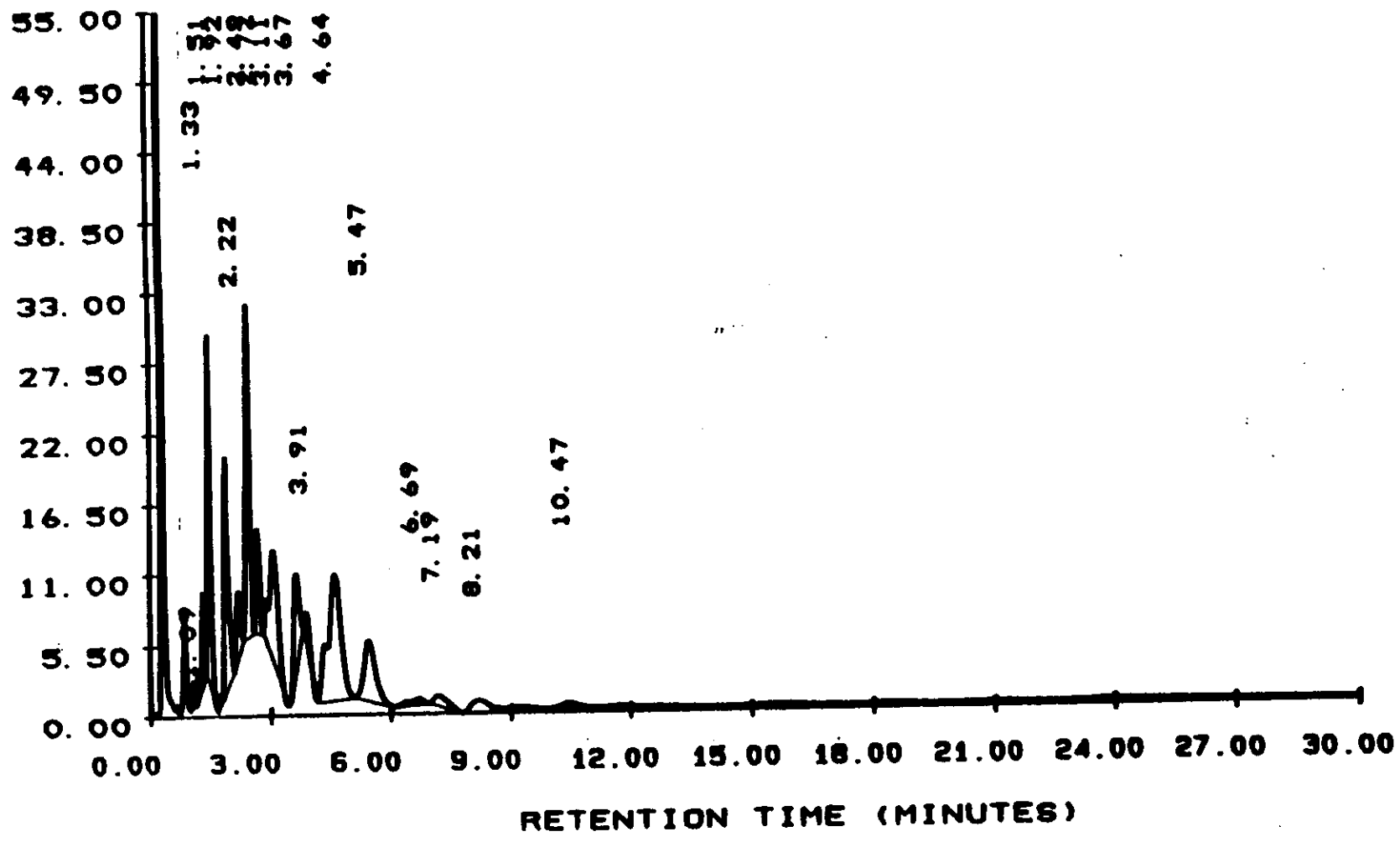
1 DBC

57

AR1232 08-06

SAMPLE NO. : 11069006 .17
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/06/90 23:37:29
PAGE NO. : 01



Y MAXIMUM: 10519.
Y MINIMUM: 2365.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/07/90 00:07:49 58

EXTERNAL STANDARD

SAMPLE: 11069006 .17 INST:06 VIAL: 0 SEQ NUMBER:017
TEST : DATE-TIME INJECTED : 11/06/90 23:37:29
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/07/90 00:07:49
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1232 08-06 RAW FILE: RAW2:K6041677
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	8268	2274	V	1.094			
002	47983	8311	V	1.334			
003	224488	37264	V	1.506			
004	181810	24859	V	1.919			
005	52032	6962	V	2.223			
006	255651	36886	V	2.488			
007	74733	11808	V	2.720			
008	197956	13540	V	3.111			
009	90751	9635	V	3.674			
010	33979	4564	V	3.907			
011	319694	14550	V	4.644			
012	131392	7080	V	5.466			
013	17869	643	V	6.693			
014	29075	1224	V	7.194			
015	60023	1397	V	8.211			
016	33966	611		10.466			

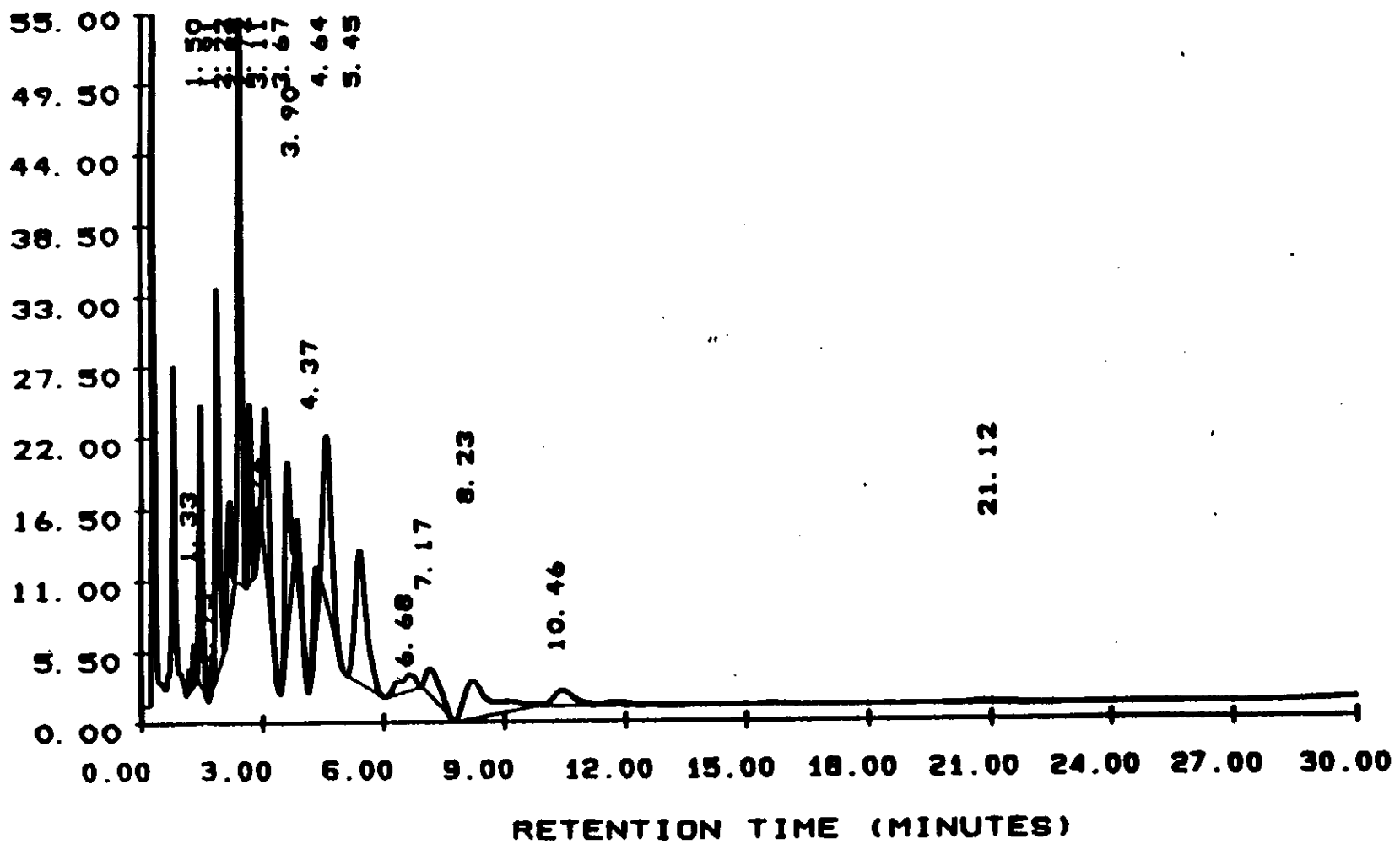
I DBC

59

AR1242M

SAMPLE NO. : 11069006 . 27
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/07/90 05:03:12
PAGE NO. : 01



Y MAXIMUM: 10741.
Y MINIMUM: 2240.

START TIME: 0.00
END TIME: 30.00

EXTERNAL STANDARD

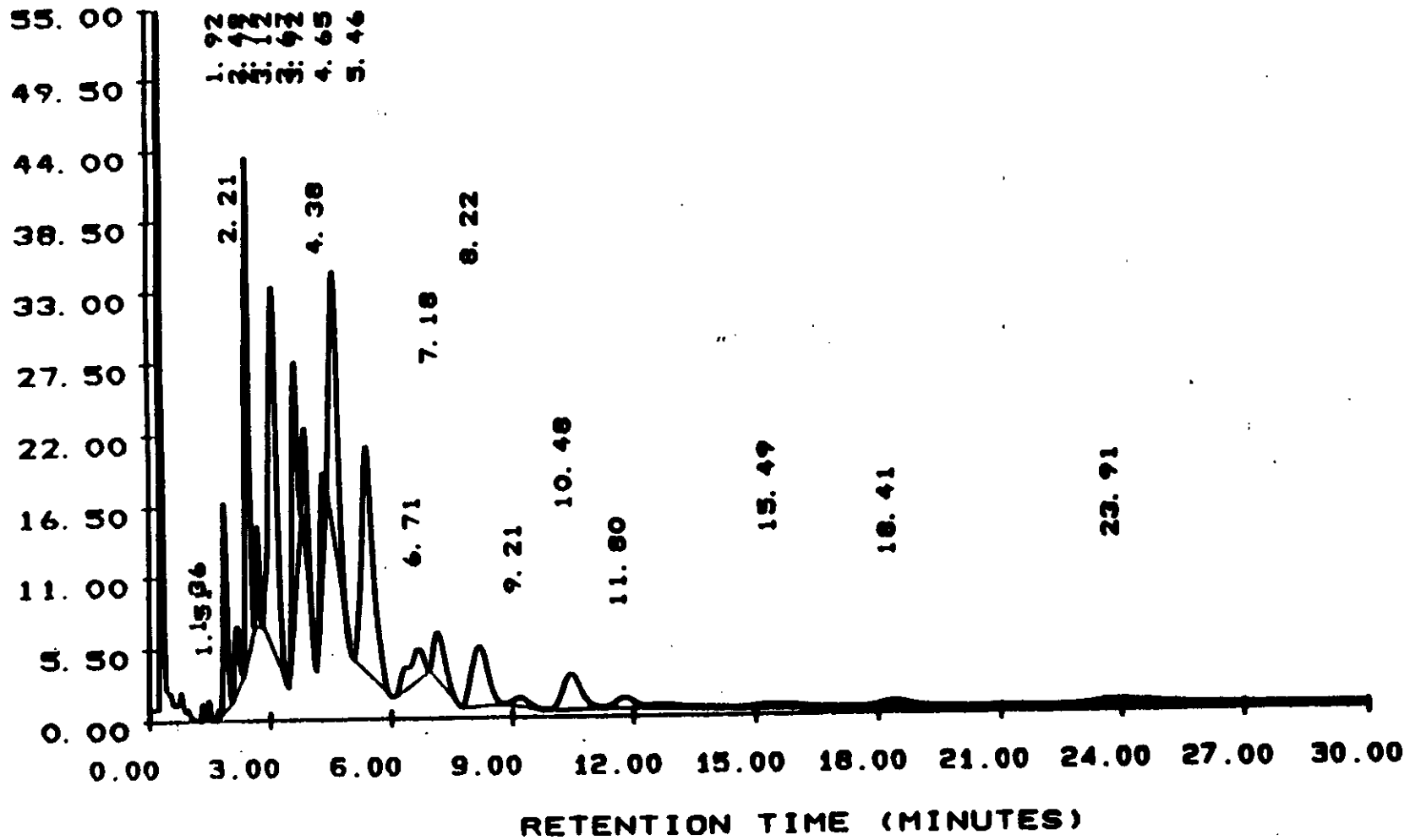
SAMPLE: I1069006 .27 INST:06 VIAL: 0 SEQ NUMBER:027
TEST : DATE-TIME INJECTED : 11/07/90 05:03:12
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/07/90 05:33:36
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1242M RAW FILE: RAW2:K7041829
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	24151	3778	V	1.334			
002	182821	30627	V	1.504			
003	13683	2563	V	1.752			
004	279038	42350	V	1.915			
005	97135	12916	V	2.219			
006	455824	65388	V	2.484			
007	129704	20446	V	2.718			
008	22630	4172	V	2.918			
009	210556	19997	V	3.108			
010	165909	18137	V	3.667			
011	67429	8636	V	3.898			
012	51241	5589	V	4.368			
013	283708	21183	V	4.635			
014	303034	16090	V	5.452			
015	56555	1948	V	6.682			
016	80388	3439	V	7.172			
017	193741	4465	V	8.231			
018	71054	1795		10.457			
019	15830	228		21.120			
					1	DBC	

AR1248M

SAMPLE NO. : 11069006 . 38
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/07/90 22:49:04
PAGE NO. : 01



Y MAXIMUM: 11934.
Y MINIMUM: 2389.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/07/90 23:19:27

EXTERNAL STANDARD

62

SAMPLE: 11069006 .38 INST:06 VIAL: 0 SEQ NUMBER:038
TEST :
COLLECTION TIME : 29.98 DATE-TIME INJECTED : 11/07/90 22:49:04
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL DATE-TIME PROCESSED : 11/07/90 23:19:27
CLIENT ID: SAMP RATE: 0.78
CLIENT: SAMPLE VOL: 3.0 ul
LAB ID: AR1248M COLUMN TYPE: 2250/2401
SAMPLE WT : % MOISTURE : RAW FILE: RAW2:K7042447
DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	7800	1633	V	1.362			
002	9720	1958	V	1.510			
003	168410	25708	V	1.918			
004	69178	8365	V	2.206			
005	462182	63960	V	2.489			
006	79909	13040	V	2.724			
007	680776	49415	V	3.117			
008	269055	28645	V	3.672			
009	144548	17918	V	3.917			
010	83489	8197	V	4.378			
011	509649	36930	V	4.645			
012	600045	30632	V	5.459			
013	113194	3998	V	6.710			
014	126763	6698	V	7.184			
015	219430	8025	V	8.224			
016	29651	1169	V	9.208			
017	144977	4737	V	10.475			
018	65420	1368	V	11.800			
019	27750	396	V	15.488			
020	37414	736		18.407			
021	45058	528		23.915			

1 DBC

V. **Raw QC Data**

A. Blank Data

B. Matrix Spike Data

C. Matrix Spike Duplicate Data

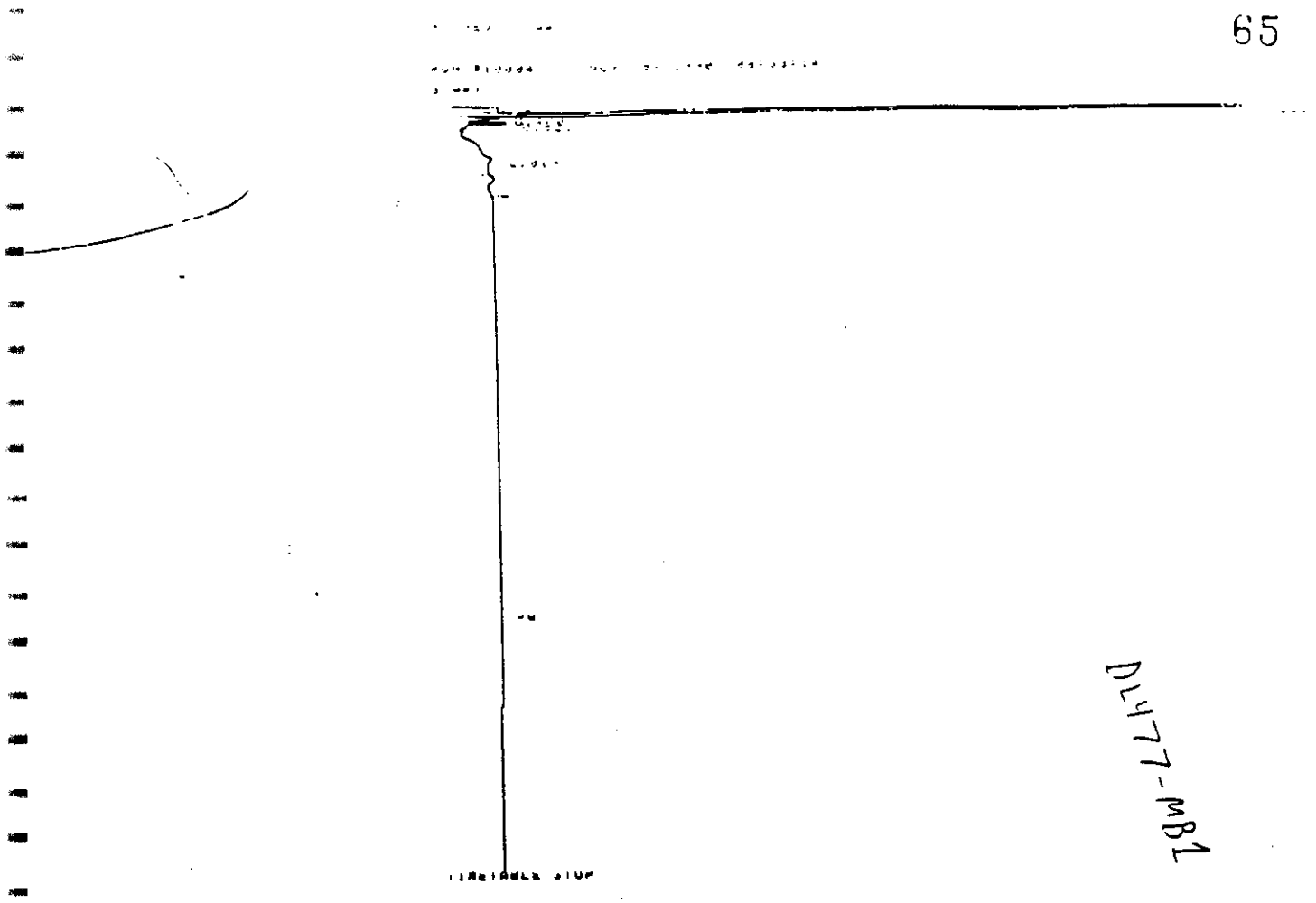
V. **Raw QC Data**

A. Blank Data

1. Tabulated Results, Forms 1

2. Pesticide/PCB Raw Data in Order by:

a. 2250/2401 Column
b. SP2100 Column



D477-MB1

RUNS 10000 NOV 6, 1998 08:36:14

SAMPLES 1

ANEMA

MI	ANEM TYPE	WIDTH	ANEMX
.422	.321401 BF	.052	24.45457
.400	4645 PV	.111	1.44428
.041	4100 YP	.075	1.19016
2.019	17434 PV	.717	5.01407

TOTAL ANEMX 34.77.00

MUL FACTUR=1.00000E+00

v. **Raw QC Data**

B. Matrix Spike Data

1. Tabulated Results, Forms 1

2. Pesticide/PCB Raw Data in Order by:

a. 2250/2401 Column
b. SP2100 Column

C. Matrix Spike Duplicate Data

1. Tabulated Results, Forms 1

2. Pesticide/PCB Raw Data in Order by:

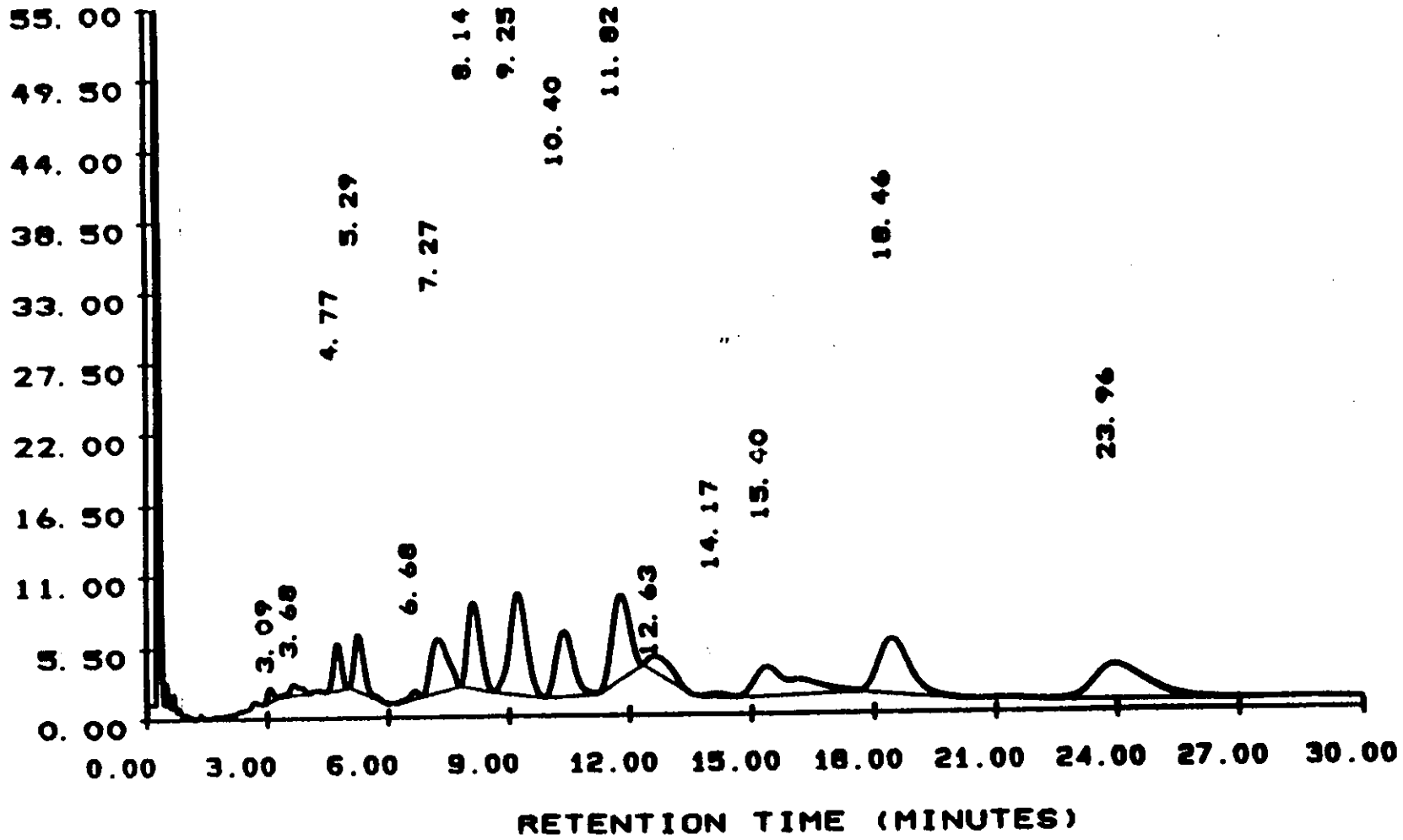
a. 2250/2401 Column
b. SP2100 Column

99

9011L449-002S

SAMPLE NO. : 11069006 .35
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/07/90 21:10:47
PAGE NO. : 01



Y MAXIMUM: 14362.
Y MINIMUM: 2299.

START TIME: 0.00
END TIME: 30.00

EXTERNAL STANDARD

SAMPLE: 11069006 .35 INST:06 VIAL: 0 SEQ NUMBER:035
TEST : OPCB-S DATE-TIME INJECTED : 11/07/90 21:10:47
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/07/90 21:41:13
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SH190-1101-1634C2 SAMPLE VOL: 3.0 ul
CLIENT: NYSDEC-1101 COLUMN TYPE: 2250/2401
LAB ID: 9011L449-002MS RAW FILE: RAW2:K7042394
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 50.0000

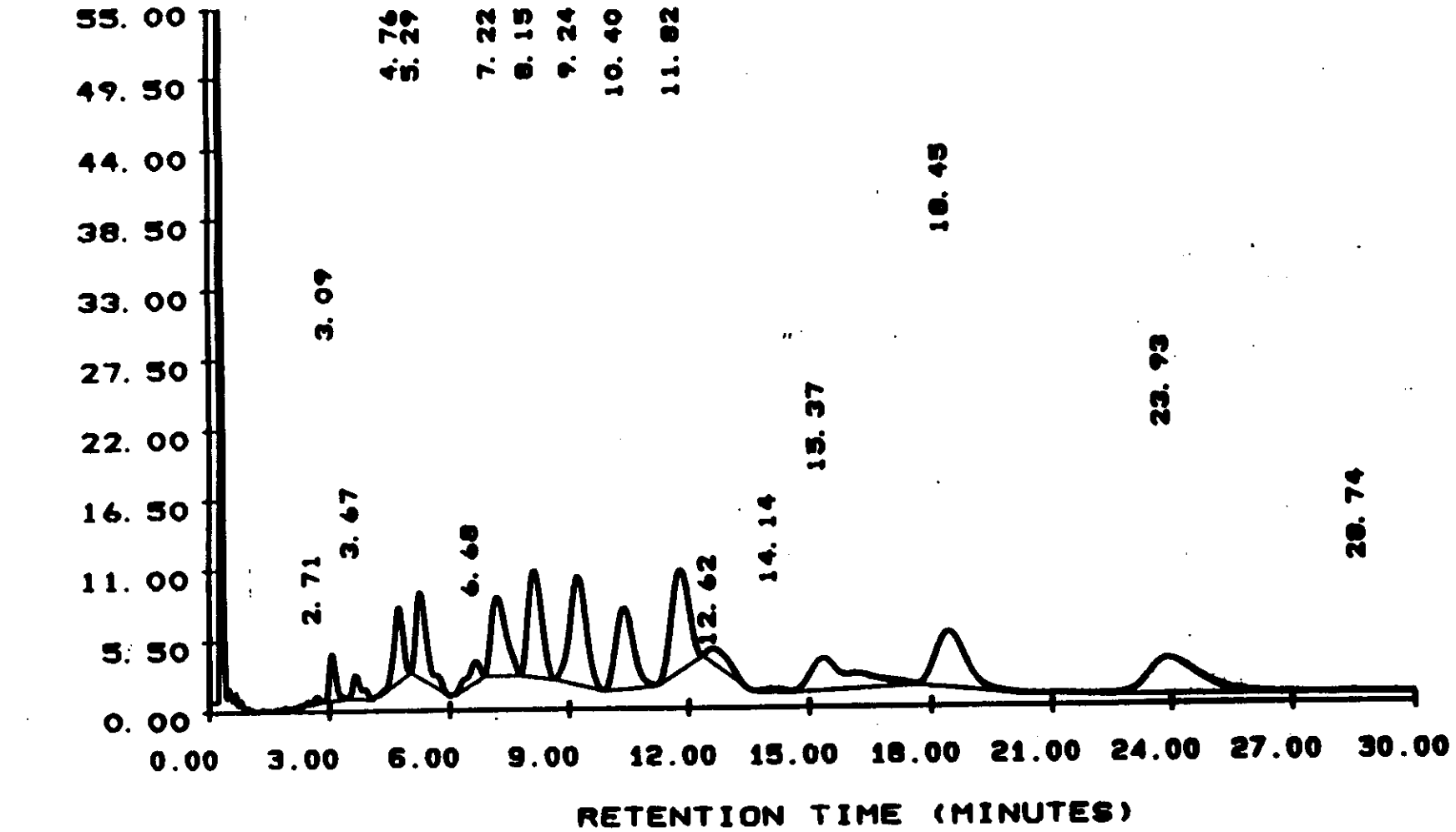
PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	18668	2028	V	3.091			
002	34628	1781	V	3.682			
003	100410	7820	V	4.768			
004	154651	9798	V	5.286			
005	17262	1097	V	6.675			
006	257963	8978	V	7.266			
007	315265	14499	V	8.140			
008	484051	17139	V	9.250			
009	322214	11049	V	10.402			
010	405971	13838	V	11.824			
011	115494	2745	V	12.629			
012	11014	421	V	14.168			
013	344794	5016	V	15.397			
014	487324	9364	V	18.456			
015	523073	5945		23.957			
					1	DBC	
	118659			9.250		AROCHLOR-1260	8.044 *

70

9011L449-002T

SAMPLE NO. : 11069006 .36
TEST NO. :
METHOD NO. : PCB06 / METH1

INSTRUMENT: 06
DATE TIME: 11/07/90 21:43:27
PAGE NO. : 01



Y MAXIMUM: 16324.
Y MINIMUM: 2294.

START TIME: 0.00
END TIME: 30.00

EXTERNAL STANDARD

SAMPLE: 11069006 .36 INST:06 VIAL: 0 SEQ NUMBER:036
TEST : OPCB-T DATE-TIME INJECTED : 11/07/90 21:43:27
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/07/90 22:14:00
METHOD: PCB06 / PCB06 REV #: 00049 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SH190-1101-1634C2 SAMPLE VOL: 3.0 ul
CLIENT: NYSDEC-1101 COLUMN TYPE: 2250/2401
LAB ID: 9011L449-002MSD RAW FILE: RAW2:K7042412
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 5.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL	
001	16695	1187	V	2.713				
002	95530	9093	V	3.087				
003	69043	4712	V	3.672				
004	212837	14234	V	4.761				
005	320762	17096	V	5.290				
006	84022	3936	V	6.676				
007	388630	15484	V	7.219				
008	483688	20997	V	8.154				
009	597766	21407	V	9.244				
010	474507	15964	V	10.403				
011	580226	19593	V	11.818				
012	122732	2887	V	12.619				
013	13186	492	V	14.144				
014	436076	6312	V	15.371				
015	564144	11001	V	18.447				
016	621338	7130		23.932				
017	10734	151		28.736				
					1	DBC		
	161689			9.244		AROCHLOR-1260	1.096	*

SAMPLE EXTRACTION RECORD

Sheet no.: 1

Extract. Date: 11/05/90 Extraction Batch No: 90DL0477 Analyst: CT Method: N/A

Test: OPCB Cleanup Date: Analyst: Client: NYSDEC-1101

LIMS Report Date: 11/09/90 Solvent: Adsorbent:

Sample No:	Client Name / Client ID	pH	Initial WT/VOL	Surr. Mult.	Spike Mult.	Final VOL	Final VOL	Split Mult.	GPC Y/N	% Solids	C/D FACTOR
90111L449-	NYSDEC-1101										
001	SH190-1101-1634B4	7	10.0	1.0		10		1.0	N	94.0	1063.8
002	SH190-1101-1634C3	7	10.0	1.0		10		1.0	N	97.0	1030.9
002 -S	SH190-1101-1634C3	7	10.0	1.0	1.0	10		1.0	N	97.0	1030.9
002 -T	SH190-1101-1634C3	7	10.0	1.0	1.0	10		1.0	N	97.0	1030.9
003	SH190-1101-1634W2	7	10.0	1.0		10		1.0	N	96.0	1041.7
004	SH190-1101-1634C2	7	10.0	1.0		10		1.0	N	100.0	1000.0
90DL0477-MB1		7	10.0	1.0	1.0	10		1.0	N	100.0	1000.0
90DL0477-MB1 -S											

Comments:
Surrogate:
Spike:

Extracts Transferred	Relinquished By	Date Time	Received By	Date Time	Reason for Transfer

END OF DATA PACKAGE

WESTON
MANAGERS DESIGNERS/CONSULTANTS
208 WELSH POOL ROAD
PICKERING CREEK INDUSTRIAL PARK
LIONVILLE, PA 19353
PHONE: (215) 524-7360
TELEX: 83-5348

RECEIVED
NOV 19 1990
HAZARDOUS WASTE REMEDIATION
NYSDEC REGION 1

16 November 1990

Mr. Jack Ryan
NYSDEC Contract Lab Program
Room 301
50 Wolf Road
Albany, NY 12233-3502

Subject: WESTON (A Business Trust) - Contract C002163
Sample Data Package: RFW Batch 9010L549
NYSDEC ID: SH190-1102-1634B4, C2

Dear Mr. Ryan:

Enclosed please find the data package for samples received Friday, November 9, 1990. Samples were requested to be analyzed on a 48-hour turnaround. Verbal data were delivered Monday morning November 12, 1990.

Please call if you have any questions.

Very truly yours,

ROY F. WESTON, INC.

Judith L. Stone
Project Manager
Analytics Division

JLS/lvd

Enclosure

cc: John Conover (NYSDEC)

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only
9011L549

Client NYSDEC - 1102
Work Order R667-05-01
Date Rec'd. 11/9/90 Date Due 11/11/90
RFW Contact J. Stone
Client Contact/Phone

Refrigerator#				6								
#/Type Container				1/6								
Volume				1.25								
Preservative				–								
ANALYSES REQUESTED				PCB								
WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	PCB								
1	SH190-1102-1634B4	S	11/5/90	✓								
2	SH190-1102-1634C2	L	L	✓								

DED. LAB 1375

Matrix: S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: Full CLP

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
	FedX	O. Hayes	11/9/90	9:20					
	Foley	CNT	11/9	10:30					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

4 Properly Preserved
Y N
NOTES:

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

7-115

RFW 21-21-001/A-12/88

74-15-1 (5/90)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
☐ 7. Halogenated Volatiles (USEPA 601-GC)
☐ 10. pH
☐ 13. Settleable Solids
☐ 16. Nitrate/Nitrite
☐ 19. Oil/Grease
☐ 22. Other _____
☐ 3. Volatiles—USEPA 624 (GC/MS)
☐ 5. Cyanide
☐ 8. Aromatic Volatiles (USEPA 602-GC)
☐ 11. COD
☐ 14. TKN
☐ 17. Total Phosphrous
☐ 20. TOC
☐ 59. PCB's at 0.065 ug/L
☐ 62. CBOD
☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 9. BOD
☐ 12. TSS
☐ 15. Ammonia
☐ 18. Reactive Phosphorus
☐ 21. Total Phenols
☐ 60. PCB's congener method
☐ 64. Total Solids
☐ 65. Volatiles USEPA 524.2 (GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC-MS(ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
☐ 27. Metals—Water
☐ 28. Cyanide—Water
☐ 66. Dioxin-Water (ASP #89-4)
☐ 35. Other 48 hours
☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 30. B/N/A—Soils/Sediment—GC-MS (ASP #89-2)
☐ 31. VOA—Soils/Sediments—GC-MS (ASP #89-1)
☑ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 33. Metals—Soil/Sediment
☐ 34. Cyanide—Soils/Sediment
☐ 67. Dioxin-Soil/Sediment (ASP #89-4)

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity
☐ 39. Corrosivity
☐ 42. Pesticides/PCB's (USEPA 8080)
☐ 45. Reactivity
☐ 48. Other _____
☐ 37. EP Toxicity (Metals Only)
☐ 40. VOA—(USEPA 8240)
☐ 43. TCLP
☐ 46. Dioxin (USEPA 8280)
☐ 63. Percent Solids
☐ 38. Ignitability
☐ 41. BNA—(USEPA 8270)
☐ 44. TCLP (Metals Only)
☐ 47. Appendix IX
☐ 68. Metals

Hoyt 11/9/90

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
CONNOR	516 751 - 2617	

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
WESTON		11-8-90	1500

SAMPLE MATRIX:

☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
5IH19U	A1102	16345	☐ This Sample	☐ Composite ☒ Grab ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals ☐ 3. Volatiles—USEPA 624 (GC/MS) ☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS) ☐ 5. Cyanide ☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC) ☐ 8. Aromatic Volatiles (USEPA 602-GC) ☐ 12. TSS
☐ 10. pH ☐ 11. COD ☐ 15. Ammonia
☐ 13. Settleable Solids ☐ 14. TKN ☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite ☐ 17. Total Phosphrous ☐ 21. Total Phenols
☐ 19. Oil/Grease ☐ 20. TOC ☐ 60. PCB's congener method
☐ 22. Other _____ ☐ 59. PCB's at 0.065 ug/L ☐ 64. Total Solids
☐ 62. CBOD ☐ 65. Volatiles USEPA 524.2 (GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28 ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS (ASP #89-2) ☐ 30. B/N/A/—Soils/Sediment—GC-MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC-MS(ASP #89-1) ☐ 31. VOA—Soils/Sediments—GC-MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3) ☒ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—Water ☐ 33. Metals—Soil/Sediment
☐ 28. Cyanide—Water ☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4) ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity ☐ 37. EP Toxicity (Metals Only) ☐ 38. Ignitability
☐ 39. Corrosivity ☐ 40. VOA—(USEPA 8240) ☐ 41. BNA—(USEPA 8270)
☐ 42. Pesticides/PCB's (USEPA 8080) ☐ 43. TCLP ☐ 44. TCLP (Metals Only)
☐ 45. Reactivity ☐ 46. Dioxin (USEPA 8280) ☐ 47. Appendix IX
☐ 48. Other _____ ☐ 63. Percent Solids ☐ 68. Metals

D Hayes 11/9/90

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: CONOVER	TELEPHONE NUMBER: 516-751-2617	REGION NO: 1
CONTRACT LAB: WESTON	COUNTY:	SAMPLING DATE: 11-2-90 / MILITARY TIME: 1500

SAMPLE MATRIX:
☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
5HI190	11012	16314C12	☐ This Sample	☐ Composite ☐ Grab ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

RECEIVED
NOV 19 1990
HAZARDOUS WASTE PE
NYSDEC

Roy F. Weston, Inc. - Lionville Laboratory
PCB ANALYTICAL DATA PACKAGE FOR
NYSDEC

DATE RECEIVED: 11/09/90 RFW LOT # :9011L549

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SH190-1102-1634B4	001	S	90DL0491	11/08/90	11/09/90	11/11/90
SH190-1102-1634B4	001 MS	S	90DL0491	11/08/90	11/09/90	11/11/90
SH190-1102-1634B4	001 MSD	S	90DL0491	11/08/90	11/09/90	11/11/90
SH190-1102-1634C2	002	S	90DL0491	11/08/90	11/09/90	11/11/90
LAB QC:						
PBLK	MB1	S	90DL0491	N/A	11/09/90	11/11/90
PBLK	MB1 BS	S	90DL0491	N/A	11/09/90	11/11/90

INTRODUCTION: PAGE

Chain Of Custody.....1
Data Summary.....3

I. Case Narrative.....5

II. QC Summary.....N/A
A. Surrogate % Recovery Summary, Forms 2
B. Matrix Spike/Matrix Spike Duplicate, Forms 3
C. Method Blank Summary, Forms 4

III. Sample Data Package.....8
A. Sample Data in order of RFW number
1. Tabulated Results, Forms 1
2. Raw Data in order by:
a. 2250/2401 Column
b. SP2100 Column

IV. Standards Data Package.....13
A. Pesticide/PCB standards:
1. Forms 8
2. Form 9
3. Form 10 (if applicable)
4. Instrument Conditions
5. Chromatograms:
a. 2250/2401 Column
b. SP2100 Column

V. Raw QC Data Package.....52
A. Blank Data
1. Tabulated Results, Forms 1
2. Raw Data:
a. 2250/2401 Column
b. SP2100 Column

B. Matrix Spike Data
1. Tabulated Results, Forms 1
2. Raw Data
a. 2250/2401 Column
b. SP2100 Column

C. Matrix Spike Duplicate Data
1. Tabulated Results, Forms 1
2. Raw Data
a. 2250/2401 Column
b. SP2100 Column

001

CHAIN OF CUSTODY

002

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only
9011L,594

Client: Nisseki
Work Order: 5915.01.01
Date Rec'd.: 11/12/90 Date Due: 12/12/90
RFW Contact: S. Hagenfuss
Client Contact/Phone:

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	Refrigerator#	#/Type Container	Volume	Preservative	ANALYSES REQUESTED →			
				6	16	130.1	—	* 8010	310	625	
001	FE190,P20,003 Influent	W	11/8/90					✓			
2	FE190,P20,004 Effluent	W	11/12/90					✓			
3	FE190,P20,005 B	W	11/12/90						✓		
4	FE190,P20,006 BS	W	11/12/90							✓	
1											
								STD			

Matrix: W - Water, DS - Drum Solids, X - Other; S - Soil, O - Oil, DL - Drum Liquids; SE - Sediment, A - Air, F - Fish; SO - Solid, WI - Wipe, L - EP/TCLP Leachate

Special Instructions: attn: George Perry / Corey Schnell 90-107
* quantify 8015 310 by GC
det limit = 3 ug/L

Item/Reason	Relinquished by	Received by	Date	Time
4 bottles	Kathy Lofton	K Duppard	11/12/90	7:30

Item/Reason	Relinquished by	Received by	Date	Time

WESTON Analytics Use Only

Samples Were:
1 Shipped or (Hand-Delivered)
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y (N)
NOTES:

4 Properly Preserved
(Y) N
NOTES:

5 Received Within Holding Times
(Y) N
NOTES: 15 Days

COC Tape Was:
1 Present on Outer Package Y (N)
2 Unbroken on Outer Package Y (N)
3 Present on Sample Y (N)
4 Unbroken on Sample Y (N)
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

Discrepancies Between Sample Labels and COC Record? Y (N)
NOTES:

RFW 21-21-001/A-12/88

Note: 'B' - USF GS Limit for QC. Cooler # NA
'BS' - 100% for Limit spike for QC. Ref # NA.

7-115

DATA SUMMARY

Sample Information	Cust ID:	SH190-1102-1 634B4	SH190-1102-1 634B4 MS	SH190-1102-1 634B4 MSD	SH190-1102-1 634C2	PBLK	PBLK BS
	RFW#:	001	001 MS	001 MSD	002	90DL0491-MB1	90DL0491-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	0.500	0.500	0.500	0.500	0.500	0.500
	Units:	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Aroclor-1016		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1221		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1232		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1242		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1248		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1254		0.25 U	89 %	92 %	0.25 U	0.24 U	86 %
Aroclor-1260		0.25 U	0.25 U	0.25 U	0.31	0.24 U	0.24 U

samples collected 11/8/90

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

I. CASE NARRATIVE

WESTON

006

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: NYSDEC
RFW #: 9011L549
W.O. #: 1667-05-01-0000

SAMPLES RECEIVED:11/09/90

NARRATIVE

This set of samples consisted of two soil samples. The samples were collected on November 8, 1990.

Samples were extracted on November 9, 1990 and analyzed for PCB target compounds on November 11, 1990. Samples were analyzed according to WESTON Analytics modified Tier II Method.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered During their analysis:

1. Method Blanks were free of contamination.
2. Method Blank Spikes were within laboratory limits.
3. Initial calibration criteria was met for all samples.
4. Continuing calibration criteria was met for all runs.
5. Matrix Spikes were within laboratory limits.

Stephen D Wesson 11-14-90

for J. Michael Taylor Date
Project Director
Lionville Analytical Laboratory

11/13/90
9011L549.cn

WESTON Analytics - Dedicated Lab

CLIENT: NYSDEC
RFW # : 9011L549
W.O.# : 1667-05-01-0000

DATA QUALIFIER

1. The following qualifiers are used on the data summary:

U - Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).

J - Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

BS - Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD - Indicates blank spike duplicate.

MS - Indicates matrix spike.

MSD - Indicates matrix spike duplicate.

DL - Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA - Not applicable.

DF - Dilution factor.

NR - Not required.

I - Interference.

III. SAMPLE DATA PACKAGE

A. SAMPLE DATA IN ORDER OF RFW NUMBER

1. TABULATED RESULTS, FORMS 1

2. RAW DATA IN ORDER BY:

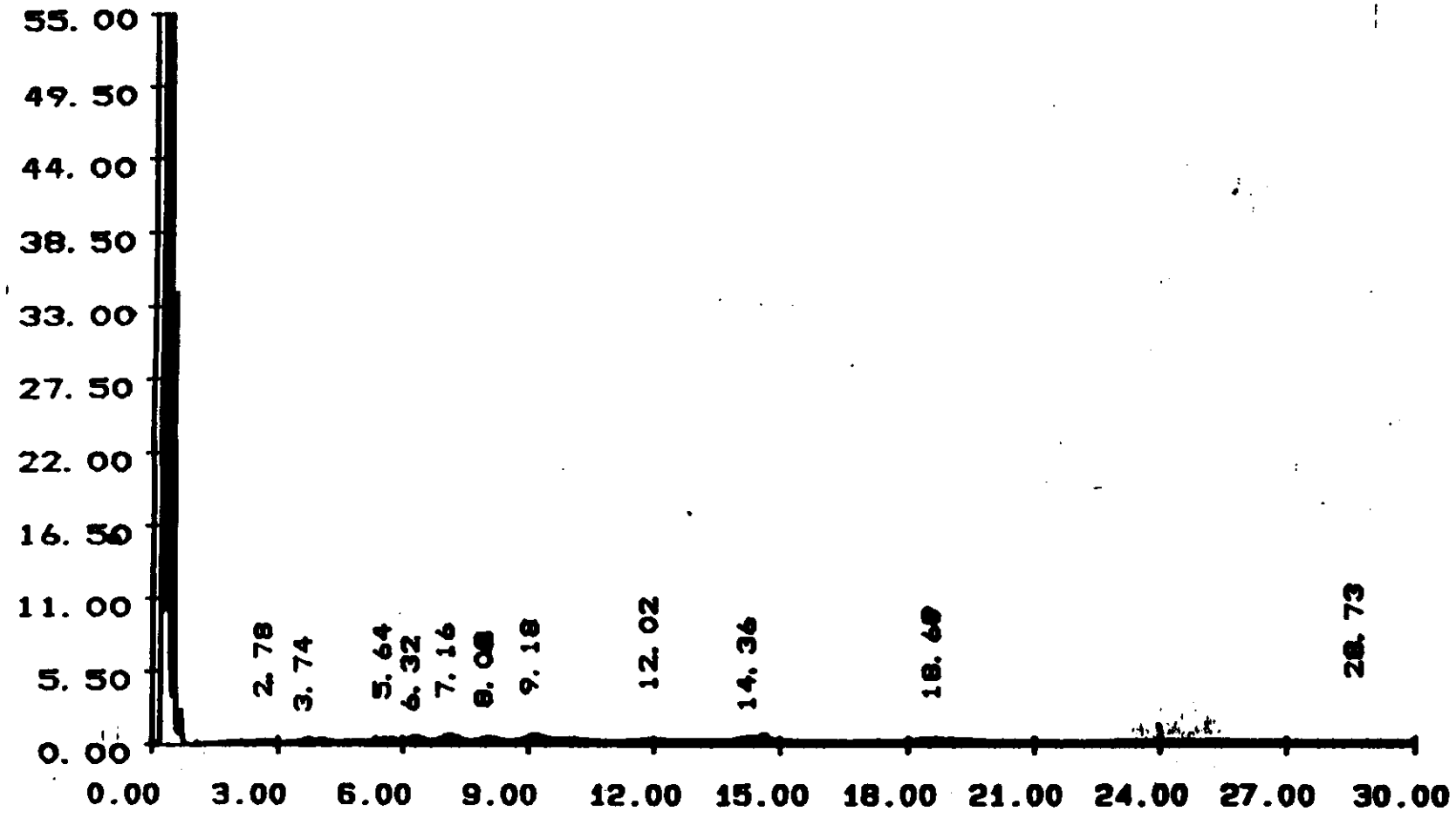
a. 2250/2401 Column
b. SP2100 Column

059

9011L549-001

SAMPLE NO. : 11099005 .58
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/11/90 15:32:39
PAGE NO. : 01



Y MAXIMUM: 39260.
Y MINIMUM: 1968.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/11/90 16:03:12

EXTERNAL STANDARD

010

SAMPLE: 11099005 .58
TEST : OPCB
COLLECTION TIME : 29.98
METHOD: PCB05 / PCB05 REV #: 00048
CLIENT ID: SH190-I102-163484
CLIENT: NYSDEC
LAB ID: 9011L549-001
SAMPLE WT : % MOISTURE :

INST:05 VIAL: 0 SEQ NUMBER:058
DATE-TIME INJECTED : 11/11/90 15:32:39
DATE-TIME PROCESSED : 11/11/90 16:03:12
ANALYST: HOHL SAMP RATE: 0.78
SAMPLE VOL: 3.0 ul
COLUMN TYPE: 2250/2401
RAW FILE: RAW2:KB044352
DILUTION FACTOR : 1.0000

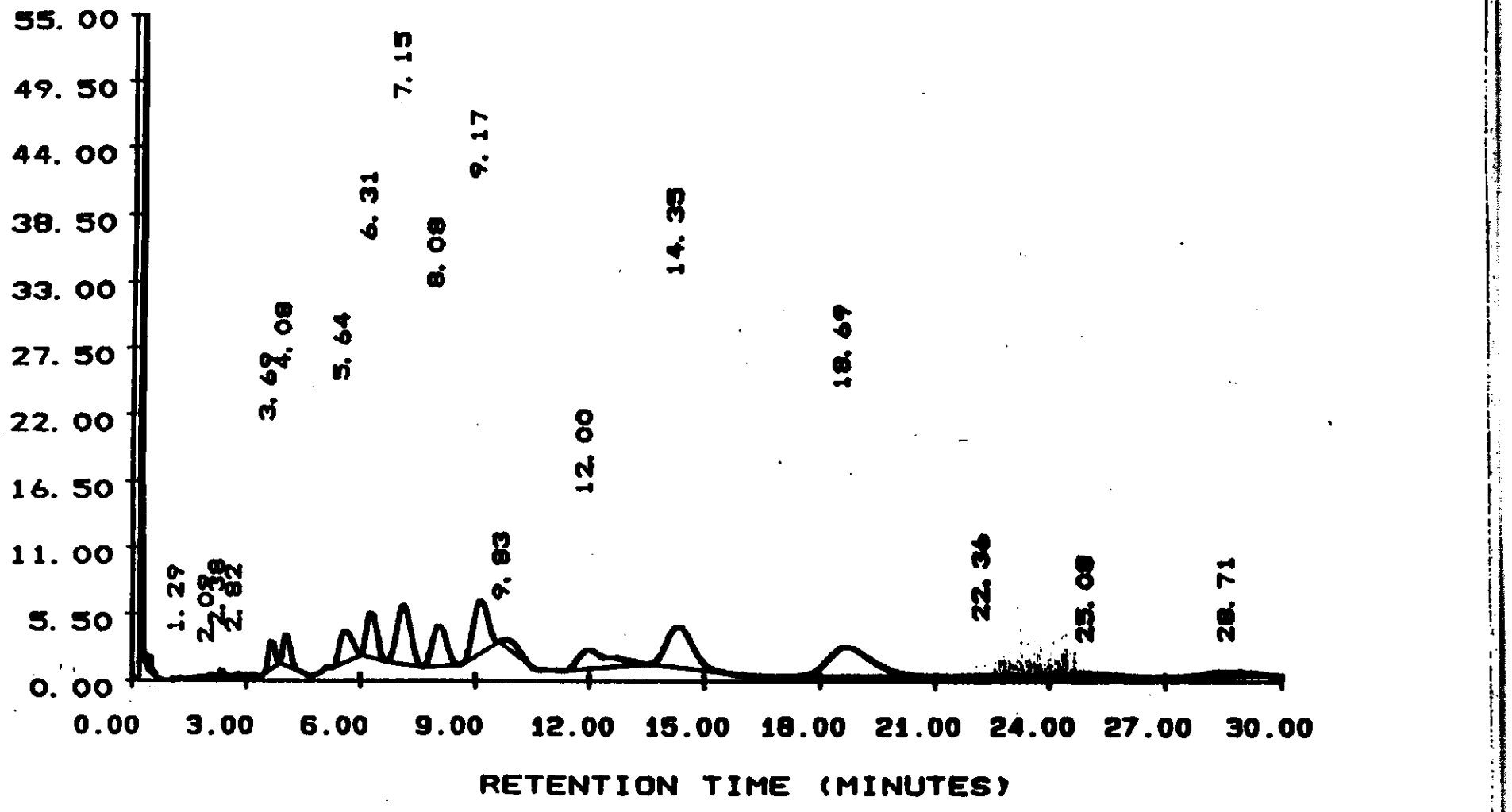
PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	98606	1188	V	2.782			
002	64028	1891	V	3.745			
003	30082	1236	V	5.641			
004	37578	2072	V	6.323			
005	63627	2723	V	7.161			
006	40203	1657	V	8.078			
007	138317	2909	V	9.179			
008	50209	859	V	12.015			
009	86188	1893		14.359			
010	102678	1319		18.693			
011	17453	207		28.725			
					1	DBC	
	18235			6.323		AROCHLOR-1254	0.017 *

01

9011L549-002

SAMPLE NO. : 11099005 .61
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/21/90 17:10:48
PAGE NO. : 01



Y MAXIMUM: 36359.
Y MINIMUM: 1941.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory

11/11/90 17:41:07 012

EXTERNAL STANDARD

SAMPLE: 11099005 .61
TEST : OPCB
COLLECTION TIME : 29.98
METHOD: PCB05 / PCB05 REV #: 00048
CLIENT ID: SH190-1102-1634C2
CLIENT: NYSDEC
LAB ID: 9011L549-002
SAMPLE WT : % MOISTURE :

INST:05 VIAL: 0 SEQ NUMBER:061
DATE-TIME INJECTED : 11/11/90 17:10:48
DATE-TIME PROCESSED : 11/11/90 17:41:07
ANALYST: HOHL SAMP RATE: 0.78
SAMPLE VOL: 3.0 ul
COLUMN TYPE: 2250/2401
RAW FILE: RAW2:KB044383
DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	8951	1000	V	1.294			
002	14496	1492	V	2.088			
003	29355	3213	V	2.375			
004	16926	950	V	2.821			
005	159201	13874	V	3.694			
006	214816	16510	V	4.078			
007	361426	15961	V	5.635			
008	425426	23225	V	6.312			
009	741182	30385	V	7.155			
010	522771	20772	V	8.076			
011	687104	26276	V	9.173			
012	160751	4615	V	9.833			
013	594017	10043	V	12.001			
014	992766	21302	V	14.350			
015	1219675	15397	V	18.688			
016	19686	327	V	22.357			
017	111885	1421	V	25.081			
018	208746	2499		28.706			

1 DBC

207913	7.155	AROCHLOR-1260	0.297	*

IV. Standard Data

A. Pesticide/PCB Standards

1. Forms 8
2. Form 9
3. Form 10 (if applicable)
4. Chromatogram(s):

    a. 2250/2401 Column
    b. SP2100 Column

0.1

PCB EVALUATION STANDARDS SUMMARY

LAB NAME: WESTON CONTRACT:
LAB CODE: 11099005 CASE NO: SAS NO: SDG NO:
INSTRUMENT ID: 05 GC COLUMN ID: 2250/2401

EVALUATION CHECK FOR LINEARITY

DATES OF ANALYSIS: 11/09/90 TO 11/09/90

AR1242		AR1248		AR1254	
LAB SAMPLE ID	CALIBRATION FACTOR	LAB SAMPLE ID	CALIBRATION FACTOR	LAB SAMPLE ID	CALIBRATION FACTOR
14-01	1208546.	09-03	1234477.	13-07	826009.
15-01	1290219.	10-03	1307414.	14-07	718421.
16-01	998520.	11-03	943418.	15-07	629447.
	% RSD = 12.9		% RSD = 16.6		% RSD = 13.6

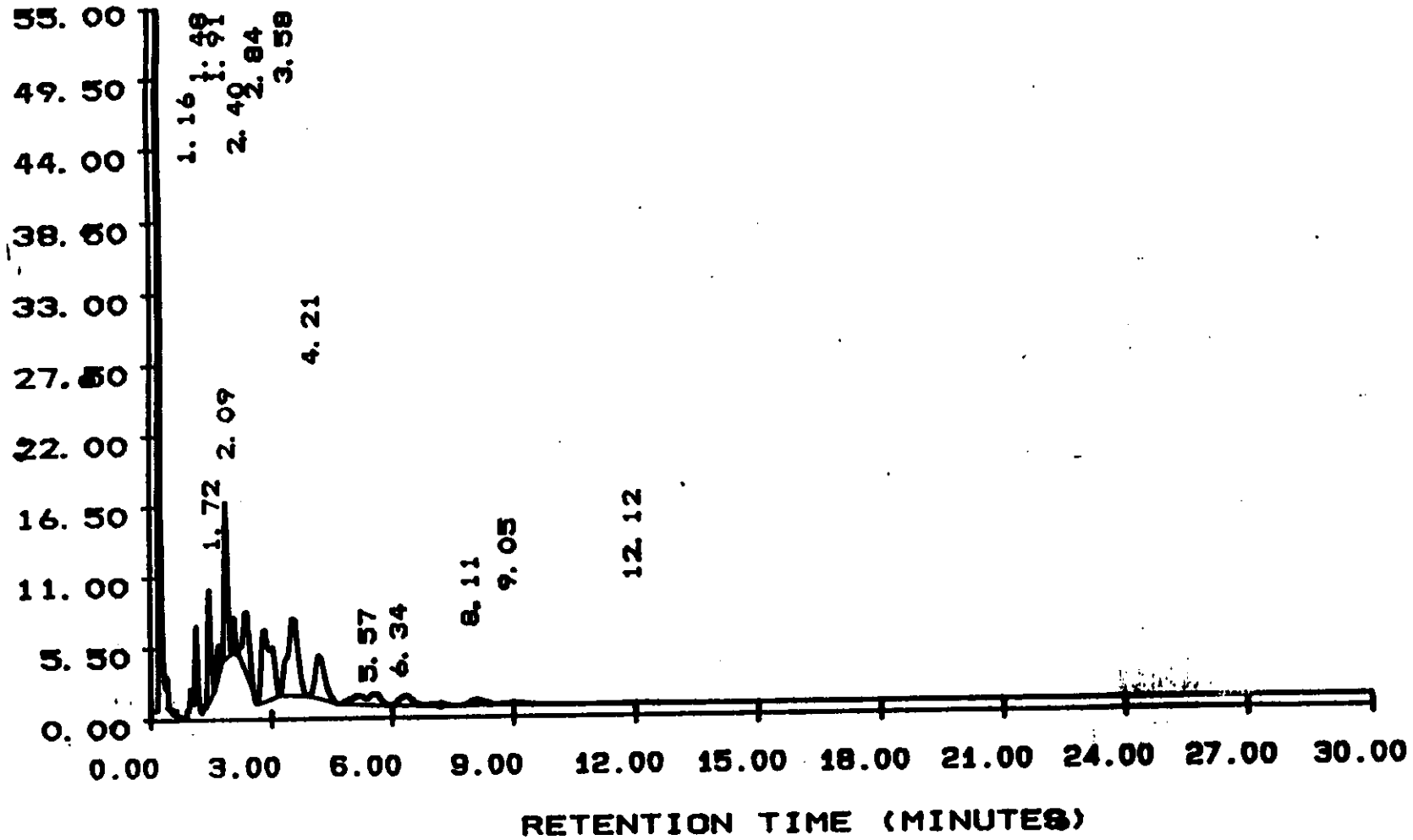
CONTINUING CALIBRATION SUMMARY

STANDARD	DATE ANALYZED	TIME ANALYZED	CALIBRATION FACTOR	DATE ANALYZED	TIME ANALYZED	CALIBRATION FACTOR	% DEVIATION
AR1242	11/09/90	15:35:27	1290219.	11/10/90	03:51:00	1246262.	3.4
AR1248	11/09/90	18:01:10	1307414.	11/10/90	12:34:01	1213147.	7.2
AR1254	11/09/90	19:39:25	718421.	11/10/90	18:34:50	709123.	1.3
AR1242	11/09/90	15:35:27	1290219.	11/10/90	21:50:05	1250908.	3.0
AR1248	11/09/90	18:01:10	1307414.	11/11/90	15:00:00	1322462.	1.2
AR1254	11/09/90	19:39:25	718421.	11/11/90	18:15:03	733221.	2.1

AR1242L 14-01

SAMPLE NO. : 11099005
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/29/90 15:02:30
PAGE NO. : 01



Y MAXIMUM: 14675.
Y MINIMUM: 2009.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 15:33:10

EXTERNAL STANDARD-

016

SAMPLE: 11099005 .06 INST:05 VIAL: 0 SEQ NUMBER:006
TEST :
COLLECTION TIME : 29.98 DATE-TIME INJECTED : 11/09/90 15:02:30
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL DATE-TIME PROCESSED : 11/09/90 15:33:10
CLIENT ID: SAMP RATE: 0.78
CLIENT: SAMPLE VOL: 3.0 ul
LAB ID: AR1242L 14-0 COLUMN TYPE: 2250/2401
SAMPLE WT : % MOISTURE : RAW FILE: RAW2:K9043445
DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	51055	11341	V	1.156			
002	104937	17890	V	1.480			
003	27966	4463	V	1.716			
004	157194	26108	V	1.912			
005	30669	6110	V	2.094			
006	124363	11515	V	2.400			
007	218466	12496	V	2.842			
008	243233	13629	V	3.576			
009	122738	7771	V	4.214			
010	83257	2110	V	5.568			
011	49068	1827	V	6.341			
012	23514	956	V	8.114			
013	10298	324		9.051			
014	8977	176		12.117			

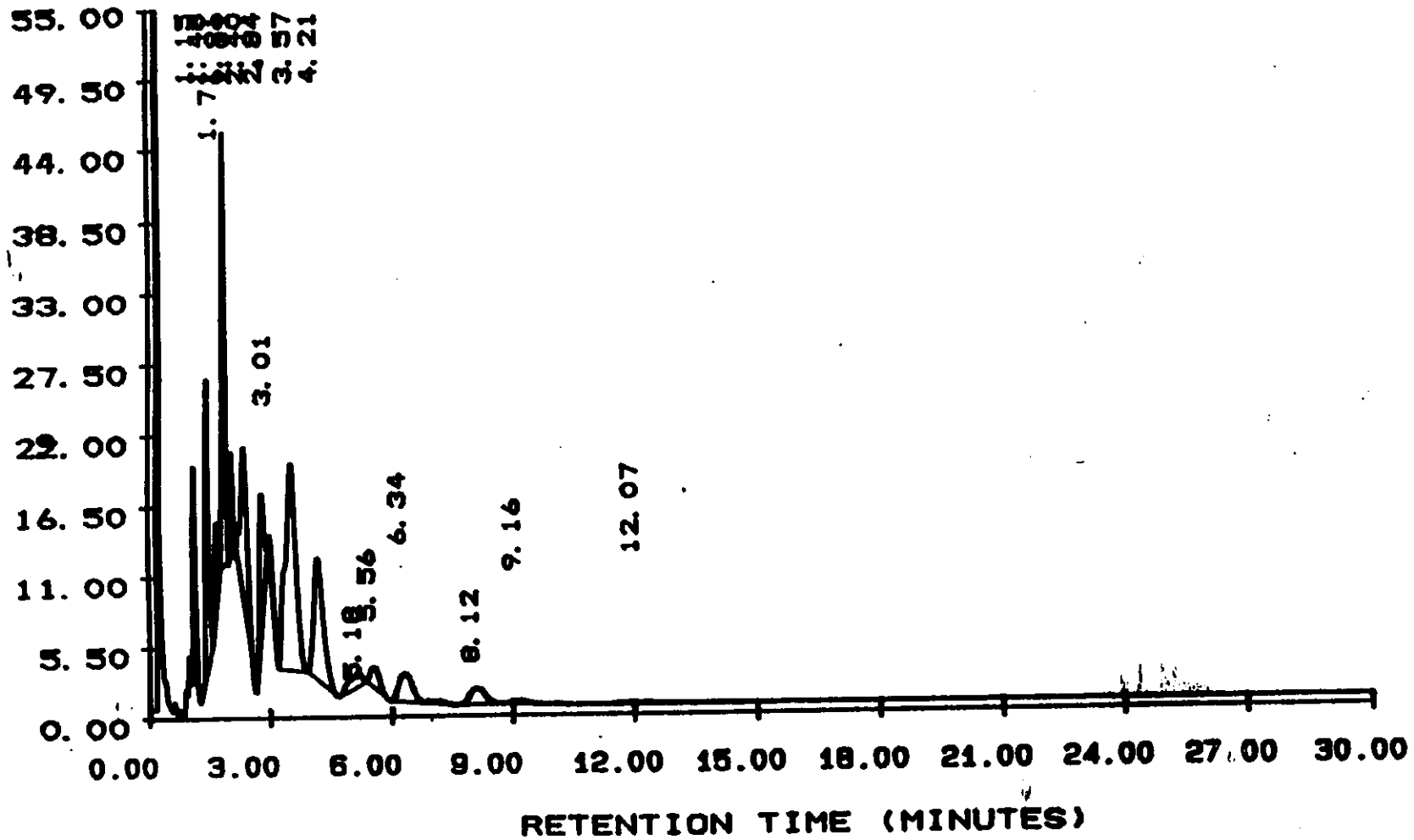
1 DBC

017

AR1242M 15-01

SAMPLE NO. : 11099005 .07
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/09/90 15:35:27
PAGE NO. : 01



Y MAXIMUM: 11964.
Y MINIMUM: 2051.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 16:05:54

EXTERNAL STANDARD

018

SAMPLE: 11099005 .07 INST:05 VIAL: 0 SEQ NUMBER:007
TEST : DATE-TIME INJECTED : 11/09/90 15:35:27
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/09/90 16:05:54
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1242M 15-0 RAW FILE: RAW2:K9043477
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

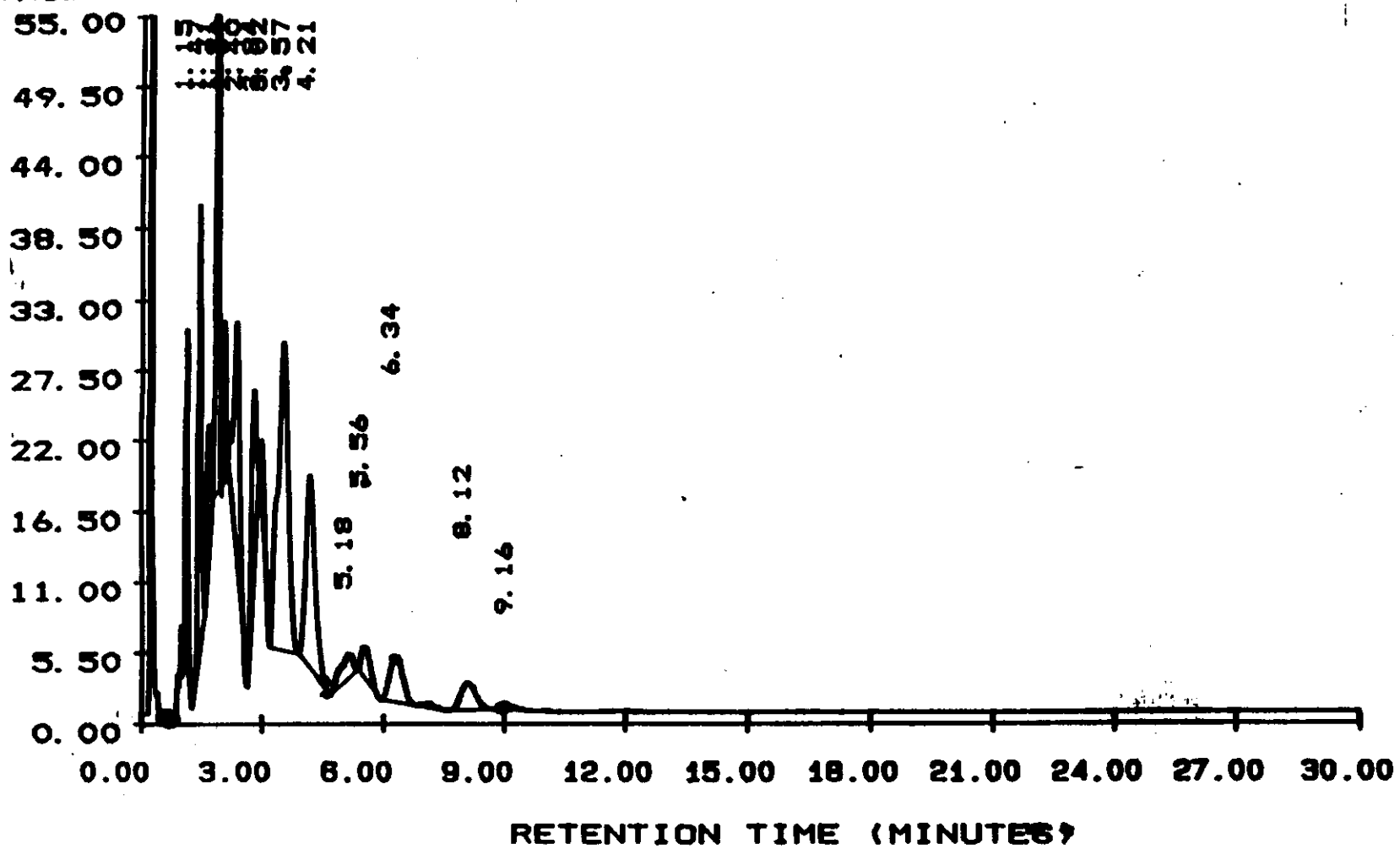
PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	134956	26993	V	1.152			
002	219398	37139	V	1.476			
003	63962	9668	V	1.711			
004	335221	56361	V	1.908			
005	69058	13376	V	2.090			
006	256898	23659	V	2.396			
007	137851	16168	V	2.837			
008	30036	5993	V	3.014			
009	521461	28913	V	3.572			
010	273804	17334	V	4.211			
011	44046	1946	V	5.180			
012	44910	2963	V	5.565			
013	102426	4030	V	6.338			
014	60972	2362	V	8.116			
015	13572	460	V	9.163			
016	21875	257		12.075			

019

AR1242H 16-01

SAMPLE NO. : 11099005 .08
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/09/90 16:08:13
PAGE NO. : 01



Y MAXIMUM: 13678.
Y MINIMUM: 1974.

START TIME: 0.00
END TIME: [redacted]

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 16:38:44

EXTERNAL STANDARD

020

SAMPLE: 11099005 .08 INST:05 VIAL: 0 SEQ NUMBER:008
TEST :
COLLECTION TIME : 29.98 DATE-TIME INJECTED : 11/09/90 16:08:13
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL DATE-TIME PROCESSED : 11/09/90 16:38:44
CLIENT ID: SAMP RATE: 0.78
CLIENT: SAMPLE VOL: 3.0 ul
LAB ID: AR1242H 16-0 COLUMN TYPE: 2250/2401
SAMPLE WT : % MOISTURE : RAW FILE: RAW2:K9043492
DILUTION FACTOR : 1.0000

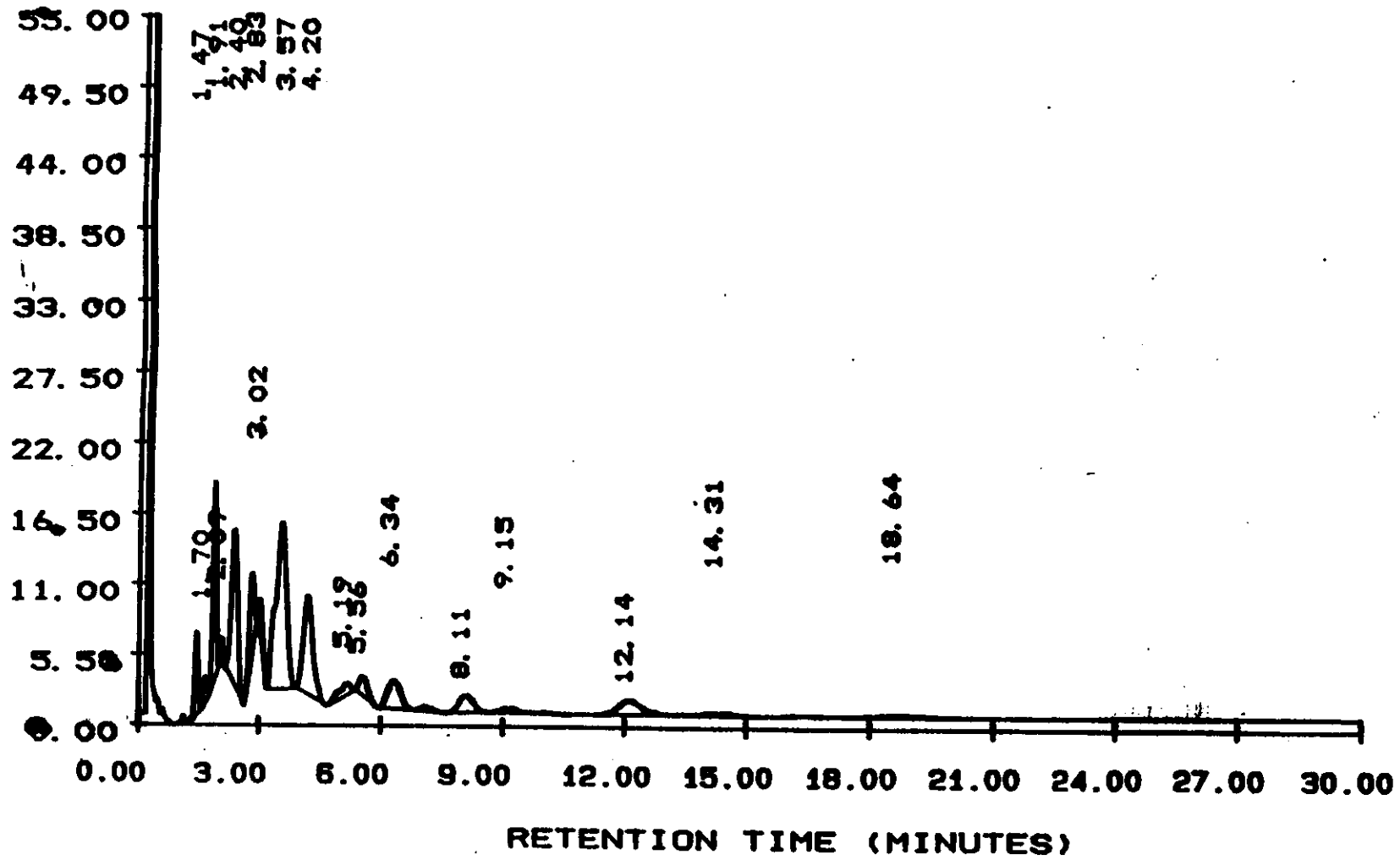
PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	249322	48864	V	1.151			
002	398733	65863	V	1.474			
003	119341	17458	V	1.707			
004	604270	101797	V	1.907			
005	123348	24218	V	2.089			
006	447812	40955	V	2.395			
007	214767	26453	V	2.837			
008	85095	13619	V	3.018			
009	922638	51069	V	3.571			
010	505496	32067	V	4.211			
011	84940	3700	V	5.179			
012	80412	5379	V	5.564			
013	176209	7233	V	6.336			
014	118733	4534	V	8.116			
015	18182	679		9.158			

1 DBC

021

AR1248L 09-03

SAMPLE NO. : 11099005 .09 INSTRUMENT: 05
TEST NO. : DATE TIME: 11/09/90 17:28:22
METHOD NO. : PCB05 / METH1 PAGE NO. : 01



Y MAXIMUM: 10982.
Y MINIMUM: 1986.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 17:58:56

EXTERNAL STANDARD

022

SAMPLE: 11099005 .09 INST:05 VIAL: 0 SEQ NUMBER:009
TEST :
COLLECTION TIME : 29.98 DATE-TIME INJECTED : 11/09/90 17:28:22
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL DATE-TIME PROCESSED : 11/09/90 17:58:56
CLIENT ID: SAMP RATE: 0.78
CLIENT: SAMPLE VOL: 3.0 ul
LAB ID: AR1248L 09-0 COLUMN TYPE: 2250/2401
SAMPLE WT : % MOISTURE : RAW FILE: RAW2:K9043509
DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	54801	9472	V	1.474			
002	21197	3171	V	1.696			
003	146938	23702	V	1.908			
004	17110	3424	V	2.090			
005	216595	19969	V	2.397			
006	75975	9716	V	2.832			
007	31014	5229	V	3.019			
008	387187	21268	V	3.569			
009	203150	12680	V	4.205			
010	32145	1388	V	5.188			
011	36422	2518	V	5.559			
012	93478	3631	V	6.337			
013	56321	2210	V	8.106			
014	22818	611	V	9.152			
015	77328	1819	V	12.136			
016	14542	348	V	14.315			
017	20876	281		18.643			

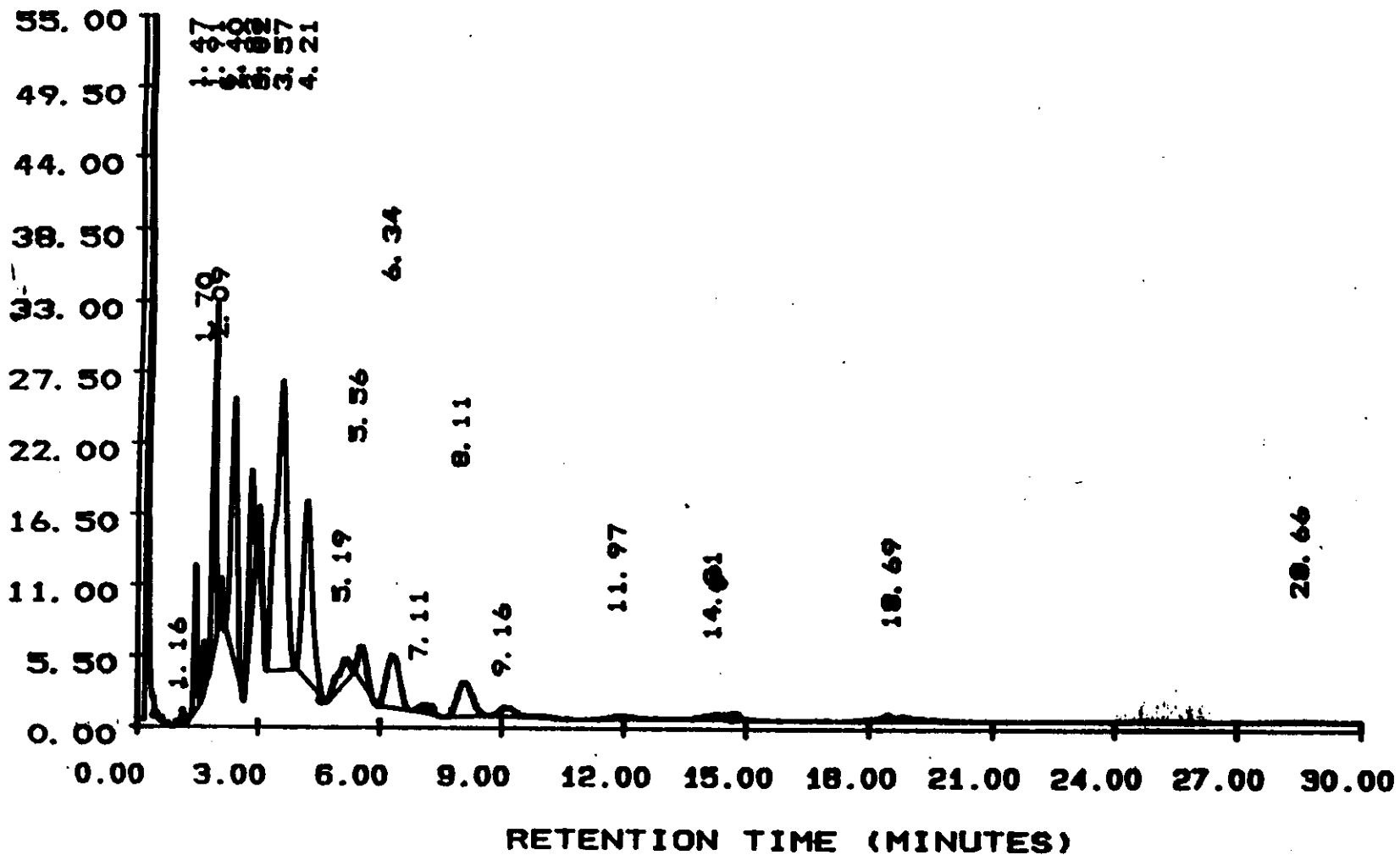
I DBC

023

AR1248M 10-03

SAMPLE NO. : 11099005 .10
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/09/90 18:01:10
PAGE NO. : 01



Y MAXIMUM: 14332.
Y MINIMUM: 1982.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 18:31:34

EXTERNAL STANDARD

024

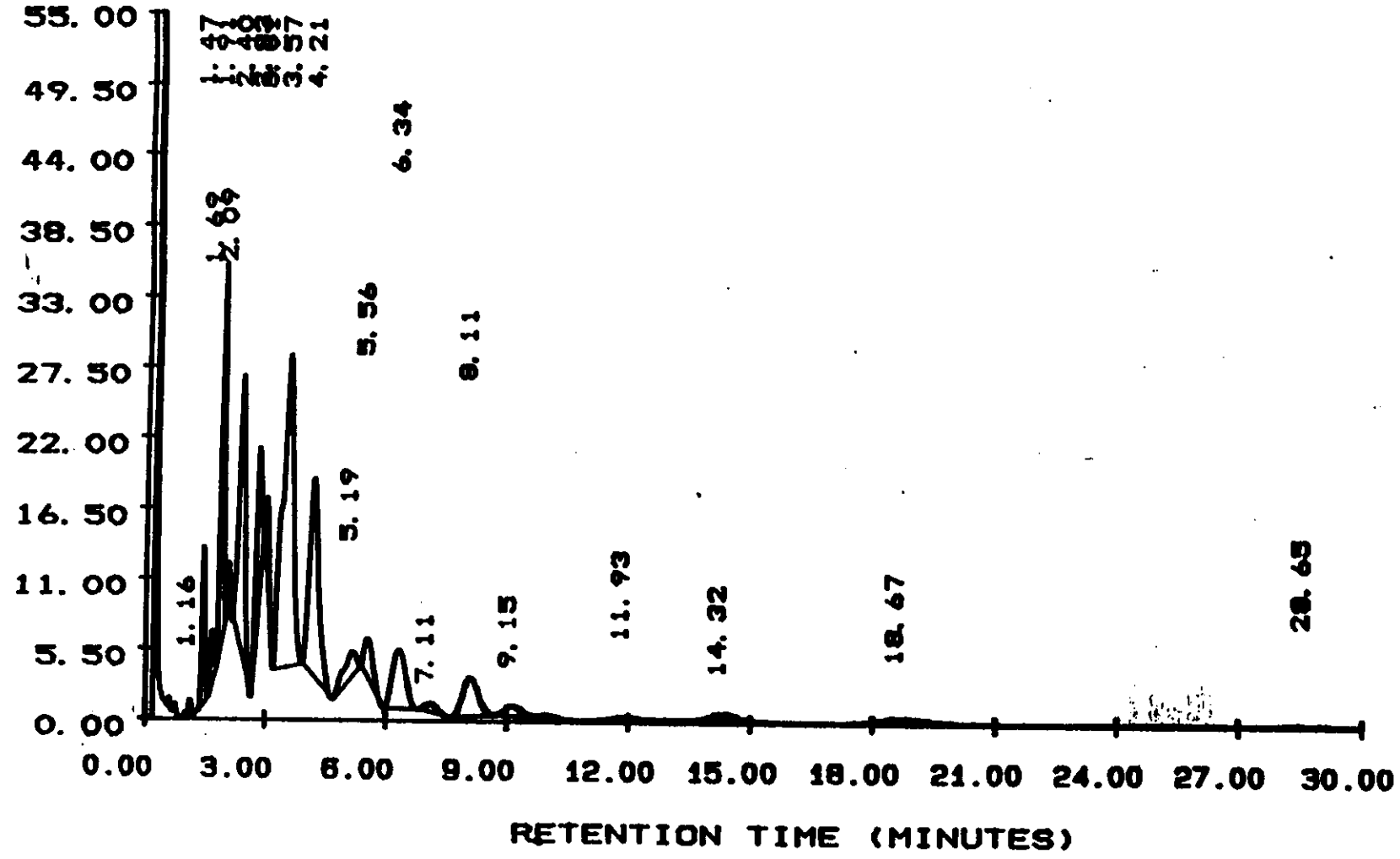
SAMPLE: 11099005 .10 INST:05 VIAL: 0 SEQ NUMBER:010
TEST : DATE-TIME INJECTED : 11/09/90 18:01:10
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/09/90 18:31:34
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1248M 10-0 RAW FILE: RAW2:K9043551
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	7793	1884	V	1.157			
002	133788	23005	V	1.474			
003	53866	8088	V	1.696			
004	353604	56977	V	1.908			
005	41023	8184	V	2.090			
006	499669	45818	V	2.397			
007	185493	23124	V	2.832			
008	82764	13334	V	3.020			
009	926873	50222	V	3.569			
010	510082	31628	V	4.206			
011	83867	3624	V	5.190			
012	92715	6404	V	5.558			
013	203113	9198	V	6.338			
014	28731	1364	V	7.110			
015	155094	5971	V	8.110			
016	59999	1617	V	9.156			
017	29060	533	V	11.968			
018	43502	986		14.312			
019	61130	781		18.688			
020	18454	218		28.661			

1 DBC

AR1248H 11-03

SAMPLE NO. : 11099005 .11 INSTRUMENT: 05
TEST NO. : DATE TIME: 11/09/90 18:33:54
METHOD NO. : PCB05 / METH1 PAGE NO. : 01



Y MAXIMUM: 20334.
Y MINIMUM: 2095.

START TIME: 0.00
END TIME: 30.00

[redacted] Client: NYSDEC Work Order: 1667-05-01-0000 Page: 1

Sample Information	Cust ID:	SH190-1102-1 634B4	SH190-1102-1 634B4	SH190-1102-1 634B4	SH190-1102-1 634C2	PBLK	PBLK BS
	RFW#:	001	001 MS	001 MSD	002	90DL0491-MB1	90DL0491-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	0.500	0.500	0.500	0.500	0.500	0.500
	Units:	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Aroclor-1016		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1221		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1232		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1242		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1248		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1254		0.25 U	89 %	92 %	0.25 U	0.24 U	86 %
Aroclor-1260		0.25 U	0.25 U	0.25 U	0.31	0.24 U	0.24 U

Samples Collected 11/8/90

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

PCBs by GC

RFW Batch Number: 9011L549 Client: NYSDEC Work Order: 1667-05-01-0000 Report Date: 11/12/90 09:28 Page: 1

Sample Information	Cust ID:	SH190-1102-1 634B4	SH190-1102-1 634B4	SH190-1102-1 634B4	SH190-1102-1 634C2	PBLK	PBLK BS
	RFW#:	001	001 MS	001 MSD	002	90DL0491-MB1	90DL0491-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	0.500	0.500	0.500	0.500	0.500	0.500
	Units:	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Aroclor-1016		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1221		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1232		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1242		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1248		0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor-1254		0.25 U	89 %	92 %	0.25 U	0.24 U	86 %
Aroclor-1260		0.25 U	0.25 U	0.25 U	0.31	0.24 U	0.24 U

samples collected 11/8/90

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 19:04:31

EXTERNAL STANDARD _-

0.-C

SAMPLE: 11099005 .11 INST:05 VIAL: 0 SEQ NUMBER:011
TEST : DATE-TIME INJECTED : 11/09/90 18:33:54
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/09/90 19:04:31
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1248H 11-0 RAW FILE: RAW2:K9043570
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	13006	3133	V	1.156			
002	211617	36359	V	1.473			
003	86768	13016	V	1.695			
004	571235	91981	V	1.907			
005	64888	13111	V	2.089			
006	782338	71772	V	2.397			
007	301720	37128	V	2.831			
008	130348	20310	V	3.014			
009	1494255	80237	V	3.569			
010	829350	51429	V	4.206			
011	138170	5953	V	5.190			
012	158134	10722	V	5.557			
013	343850	15396	V	6.342			
014	47651	2262	V	7.111			
015	264138	10089	V	8.112			
016	100092	2696	V	9.155			
017	41604	785	V	11.925			
018	74168	1665		14.325			
019	103056	1325		18.667			
020	31422	374		28.650			

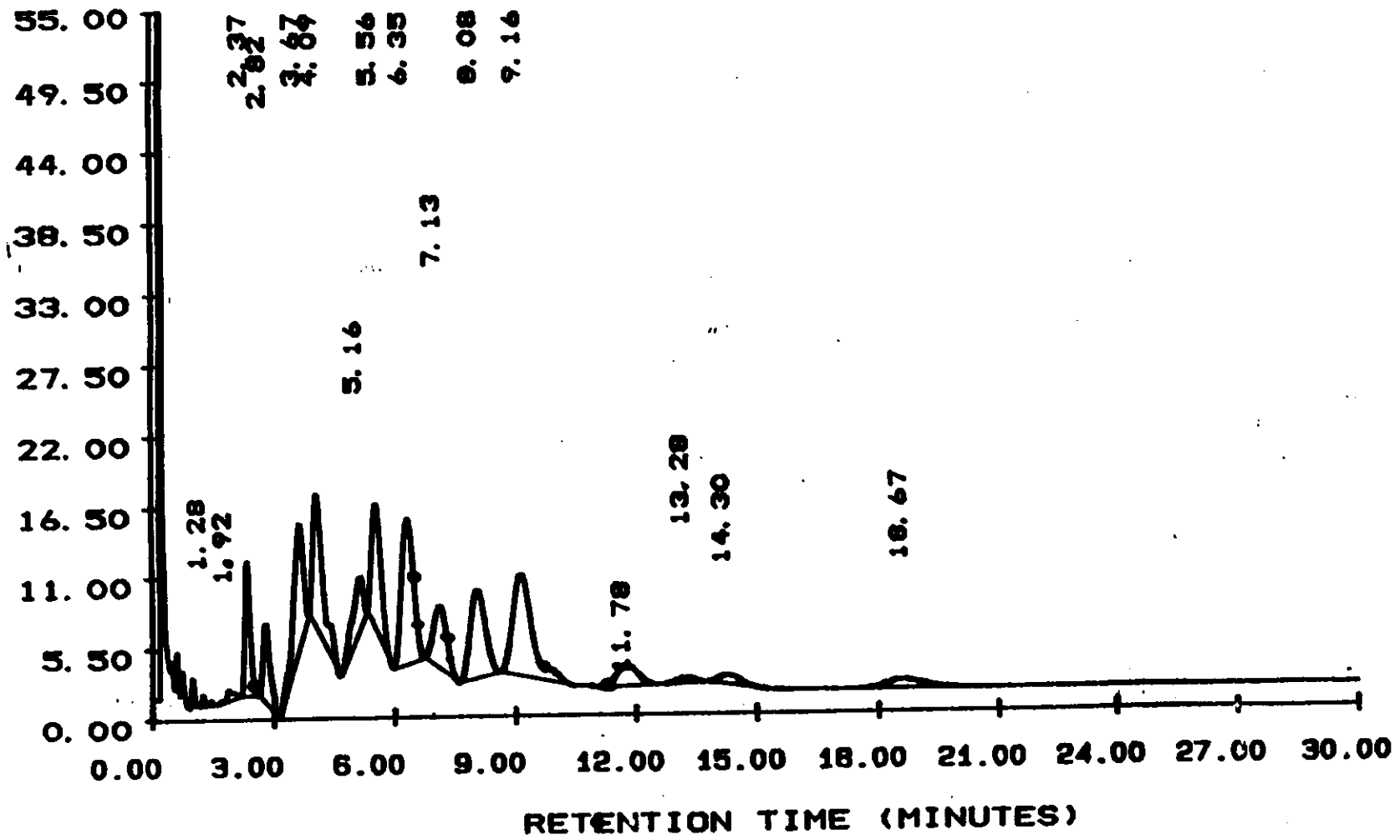
1 DBC

130

AR1254L 13-07

SAMPLE NO. : 11099005 .12
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/09/90 19:06:44
PAGE NO. : 01



Y MAXIMUM: 8282.
Y MINIMUM: 1914.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 19:37:09

EXTERNAL STANDARD

SAMPLE: 11099005 .12 INST:05 VIAL: 0 SEQ NUMBER:012
TEST : DATE-TIME INJECTED : 11/09/90 19:06:44
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/09/90 19:37:09
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1254L 13-0 RAW FILE: RAW2:K9043590
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

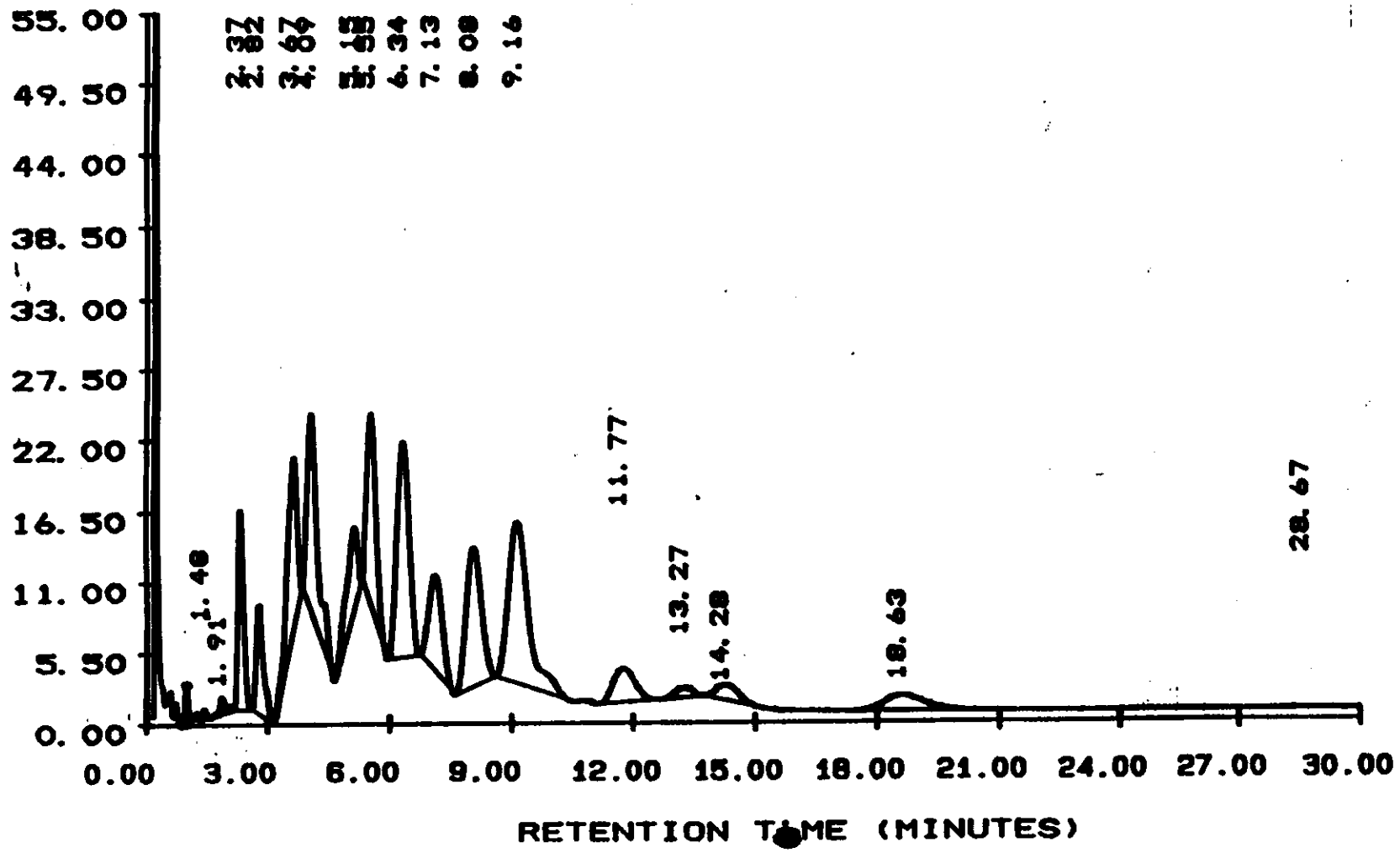
PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	6781	841	V	1.280			
002	13798	969	V	1.916			
003	107072	11850	V	2.372			
004	84490	7129	V	2.817			
005	180812	10747	V	3.669			
006	211437	12381	V	4.088			
007	88778	4562	V	5.156			
008	184082	11693	V	5.556			
009	271027	13171	V	6.346			
010	127500	5684	V	7.133			
011	203518	7847	V	8.078			
012	304764	9101	V	9.164			
013	67703	1817	V	11.779			
014	15570	498	V	13.277			
015	32685	854		14.296			
016	60102	841		18.667			

1 DBC

AR1254M 14-07

SAMPLE NO. : 11099005 .13
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/09/90 19:39:25
PAGE NO. : 01



Y MAXIMUM: 11255.
Y MINIMUM: 1984.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 20:09:50

EXTERNAL STANDARD

030

SAMPLE: 11099005 .13 INST:05 VIAL: 0 SEQ NUMBER:013
TEST : DATE-TIME INJECTED : 11/09/90 19:39:25
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/09/90 20:09:50
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1254M 14-0 RAW FILE: RAW2:K9043608
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	5460	1028	V	1.479			
002	23750	2080	V	1.912			
003	240019	25879	V	2.371			
004	168711	14338	V	2.820			
005	356037	21987	V	3.667			
006	460813	26219	V	4.087			
007	204065	10438	V	5.155			
008	394303	25480	V	5.554			
009	580028	28154	V	6.342			
010	290998	12864	V	7.131			
011	472017	18186	V	8.077			
012	720159	21205	V	9.158			
013	161946	4407	V	11.772			
014	39390	1249	V	13.274			
015	81537	2109		14.276			
016	150012	2115		18.633			
017	17126	209		28.672			

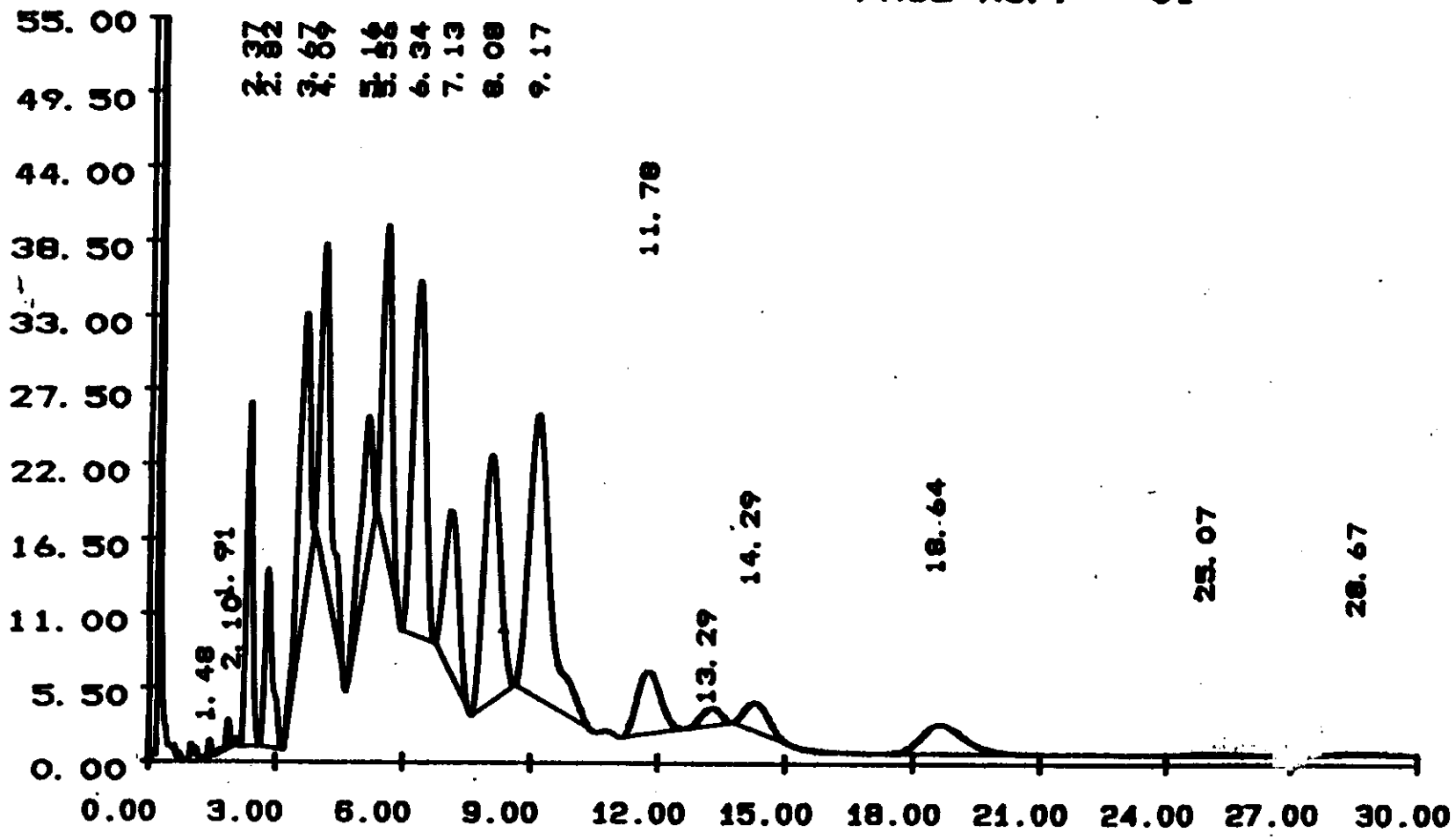
1 DBC

031

AR1254H 15-07

SAMPLE NO. : 11099005 .14
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/09/90 20:12:09
PAGE NO. : 01



Y MAXIMUM: 12084.
Y MINIMUM: 1990.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 20:42:33

EXTERNAL STANDARD

032

SAMPLE: 11099005 .14 INST:05 VIAL: 0 SEQ NUMBER:014
TEST :
COLLECTION TIME : 29.98 DATE-TIME INJECTED : 11/09/90 20:12:09
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL DATE-TIME PROCESSED : 11/09/90 20:42:33
CLIENT ID: SAMP RATE: 0.78
CLIENT: SAMPLE VOL: 3.0 ul
LAB ID: AR1254H 15-0 COLUMN TYPE: 2250/2401
SAMPLE WT : % MOISTURE : RAW FILE: RAW2:K9043625
DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	11446	2092	V	1.479			
002	26066	3744	V	1.911			
003	6476	1190	V	2.096			
004	438246	45965	V	2.372			
005	291503	24003	V	2.824			
006	628114	38641	V	3.668			
007	797926	44559	V	4.089			
008	361786	18828	V	5.159			
009	686154	44403	V	5.557			
010	1000025	48236	V	6.343			
011	514675	22446	V	7.134			
012	881810	33447	V	8.083			
013	1317421	38257	V	9.168			
014	314304	8410	V	11.784			
015	73903	2362	V	13.288			
016	157542	3970		14.293			
017	298602	4143		18.640			
018	14912	192		25.066			
019	32476	396		28.672			

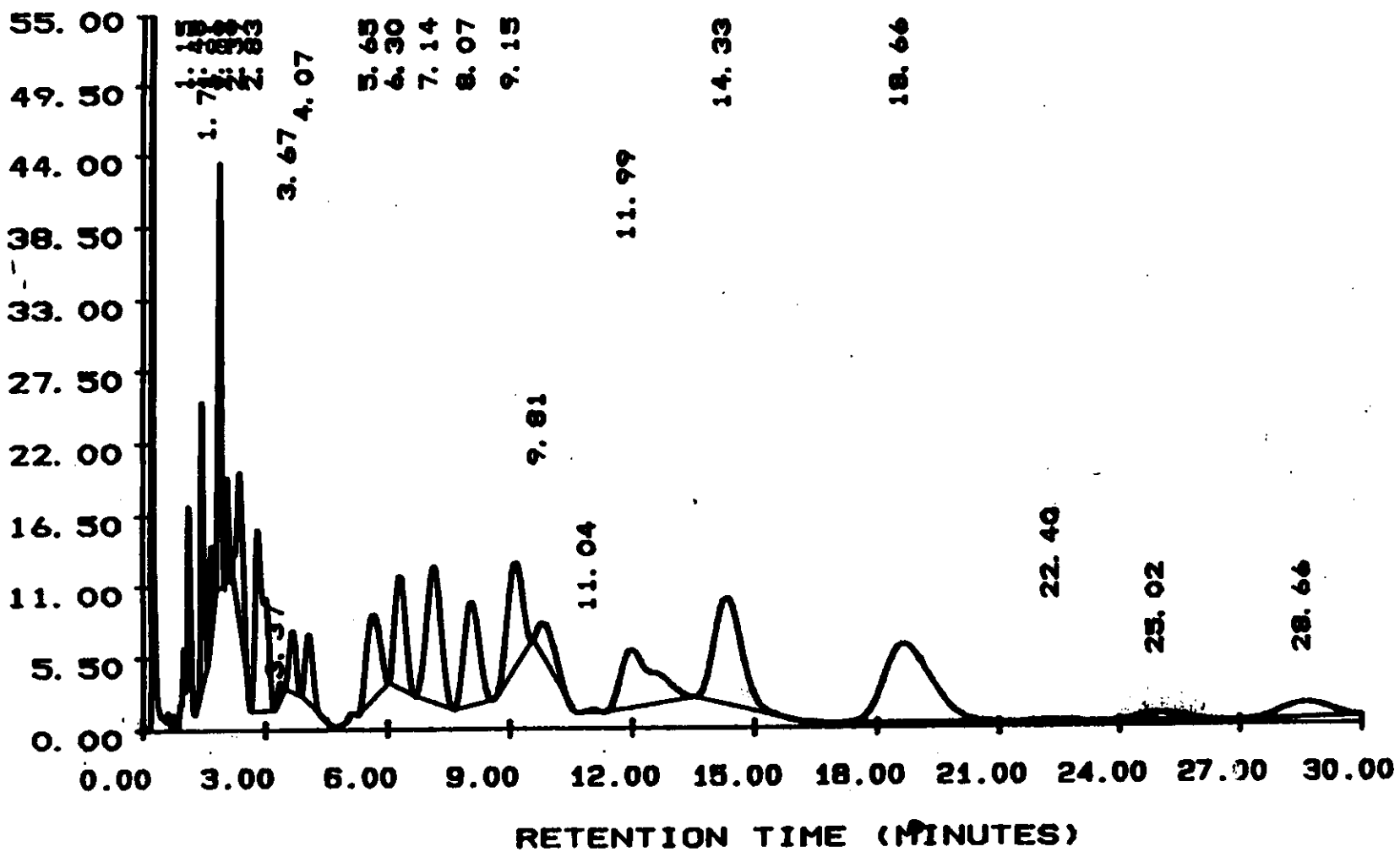
1 DBC

033

AR1660 12-31

SAMPLE NO. : 11099005 .15
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/09/90 20:44:53
PAGE NO. : 01



Y MAXIMUM: 14502.
Y MINIMUM: 2033.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 21:15:19

EXTERNAL STANDARD

034

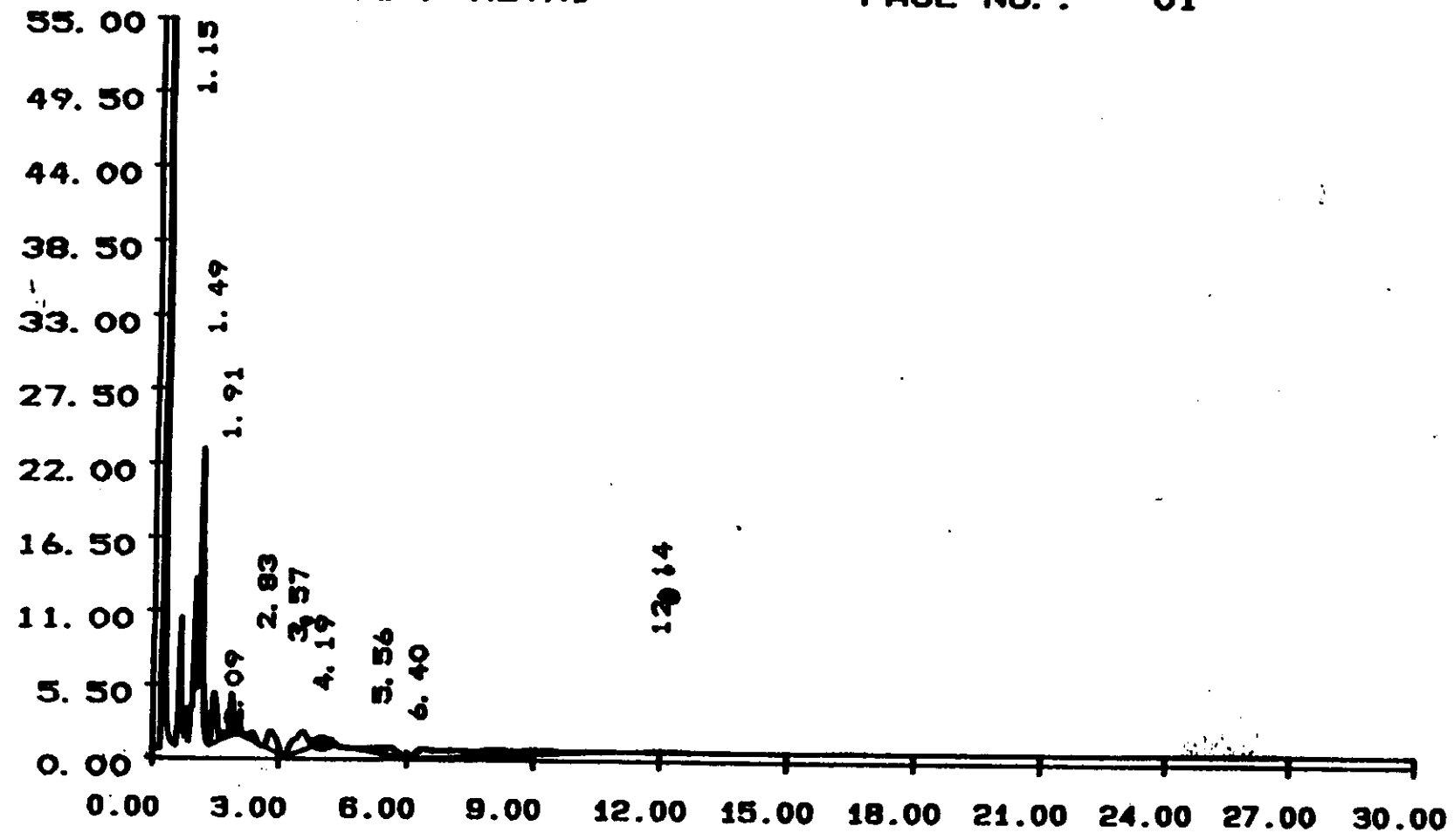
SAMPLE: 11099005 .15 INST:05 VIAL: 0 SEQ NUMBER:015
TEST : DATE-TIME INJECTED : 11/09/90 20:44:53
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/09/90 21:15:19
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1660 12-31 RAW FILE: RAW2:K9043645
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	111151	24491	V	1.152			
002	261088	44328	V	1.475			
003	79411	11719	V	1.709			
004	409052	69080	V	1.907			
005	84992	16607	V	2.089			
006	314380	28948	V	2.394			
007	506551	31431	V	2.832			
008	20482	2404	V	3.371			
009	120280	10682	V	3.672			
010	152338	12077	V	4.071			
011	326050	14263	V	5.654			
012	350746	19535	V	6.303			
013	582457	23754	V	7.143			
014	450713	17827	V	8.069			
015	452907	17926	V	9.154			
016	192273	6087	V	9.808			
017	10669	554	V	11.040			
018	562170	9945	V	11.994			
019	864656	18526	V	14.330			
020	1105131	13608	V	18.658			
021	23155	381	V	22.400			
022	108403	1374	V	25.024			
023	229178	2709		28.661			
					1	DBC	

035

AR1221 07-02

SAMPLE NO. : 11099005 .16 INSTRUMENT: 05
TEST NO. : DATE TIME: 11/09/90 21:17:49
METHOD NO. : PCB05 / METH1 PAGE NO. : 01



Y MAXIMUM: 14822.
Y MINIMUM: 1913.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 21:48:16

EXTERNAL STANDARD

036

SAMPLE: 11099005 .16 INST:05 VIAL: 0 SEQ NUMBER:016
TEST : DATE-TIME INJECTED : 11/09/90 21:17:49
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/09/90 21:48:16
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1221 07-02 RAW FILE: RAW2:K9043662
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	136582	31728	V	1.150			
002	65863	8782	V	1.489			
003	49668	6934	V	1.909			
004	33583	1936	V	2.089			
005	54877	3627	V	2.827			
006	82719	3408	V	3.572			
007	19522	1266	V	4.194			
008	56886	1484	V	5.555			
009	245746	1768		6.399			
010	9464	244		12.139			

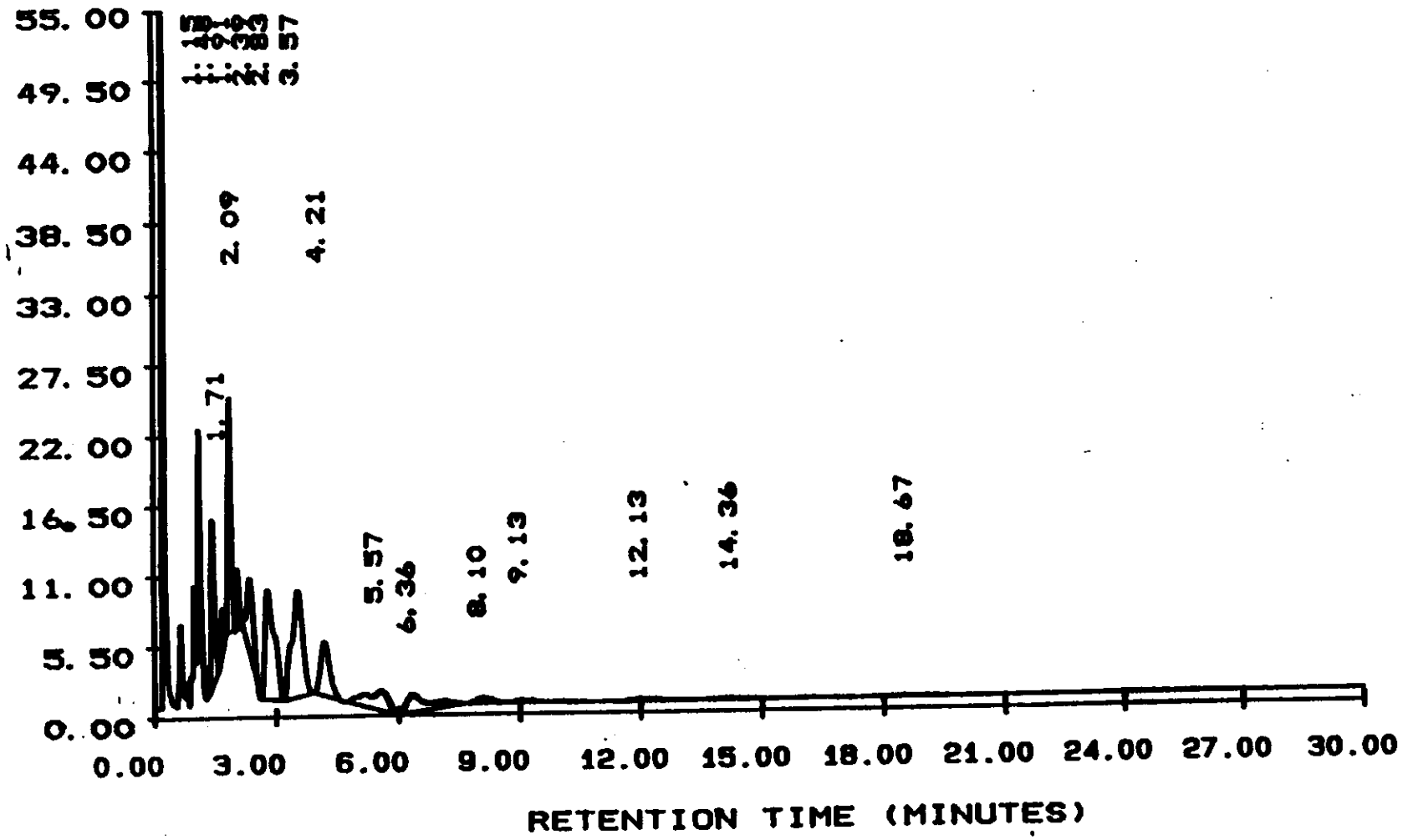
1 DBC

037

AR1232 08-06

SAMPLE NO. : 11099005 .17
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/05/90 21:50:32
PAGE NO. : 01



Y MAXIMUM: 12948.
Y MINIMUM: 1905.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/09/90 22:20:57

EXTERNAL STANDARD

038

SAMPLE: 11099005 .17 INST:05 VIAL: 0 SEQ NUMBER:017
TEST : DATE-TIME INJECTED : 11/09/90 21:50:32
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/09/90 22:20:57
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1232 08-06 RAW FILE: RAW2:K9043679
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	126062	27746	V	1.151			
002	145036	23884	V	1.477			
003	38150	5754	V	1.712			
004	202412	34369	V	1.907			
005	43546	8525	V	2.089			
006	138811	13033	V	2.394			
007	265793	17069	V	2.830			
008	305965	16496	V	3.570			
009	130534	8545	V	4.211			
010	122208	3182	V	5.572			
011	106501	2702	V	6.360			
012	21577	870	V	8.104			
013	15325	349	V	9.131			
014	15027	332	V	12.126			
015	9223	218		14.360			
016	11362	153		18.667			

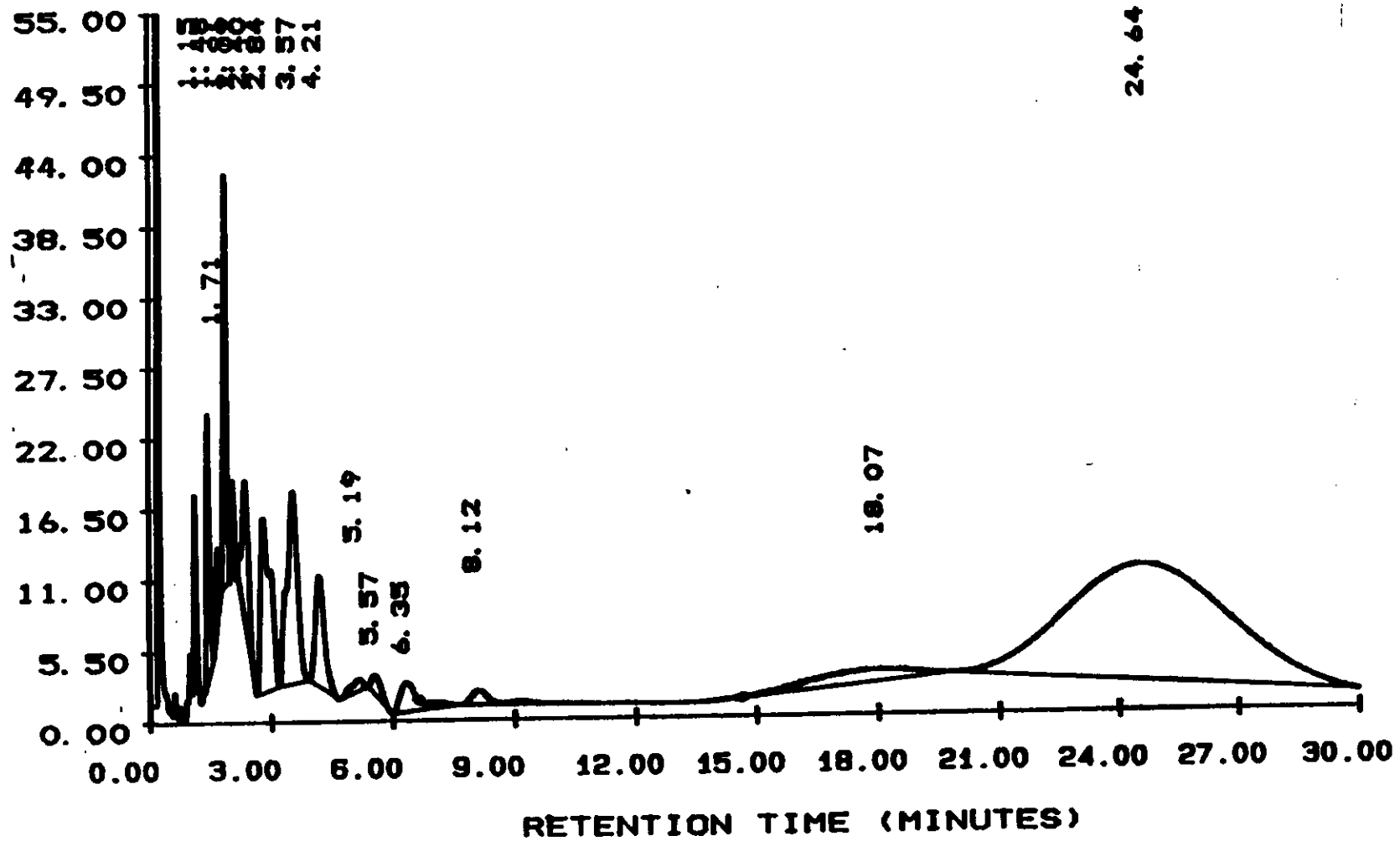
1 DBC

033

AR1242M

SAMPLE NO. : 11099005 . 28
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/10/90 03:51:00
PAGE NO. : 01



Y MAXIMUM: 13394.
Y MINIMUM: 3605.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/10/90 04:21:25

040

EXTERNAL STANDARD -

SAMPLE: 11099005 .28 INST:05 VIAL: 0 SEQ NUMBER:028
TEST : DATE-TIME INJECTED : 11/10/90 03:51:00
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/10/90 04:21:25
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1242M RAW FILE: RAW2:KA043808
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	99235	21790	V	1.153			
002	190296	33166	V	1.477			
003	56730	8670	V	1.711			
004	312440	52923	V	1.909			
005	63432	12324	V	2.091			
006	229798	20968	V	2.398			
007	400144	23779	V	2.838			
008	474924	26338	V	3.574			
009	235046	15439	V	4.214			
010	35483	1557	V	5.186			
011	46978	2970	V	5.568			
012	128751	4102	V	6.355			
013	81262	2000		8.123			
014	308032	1587	V	18.071			
015	4557889	16018		24.640			

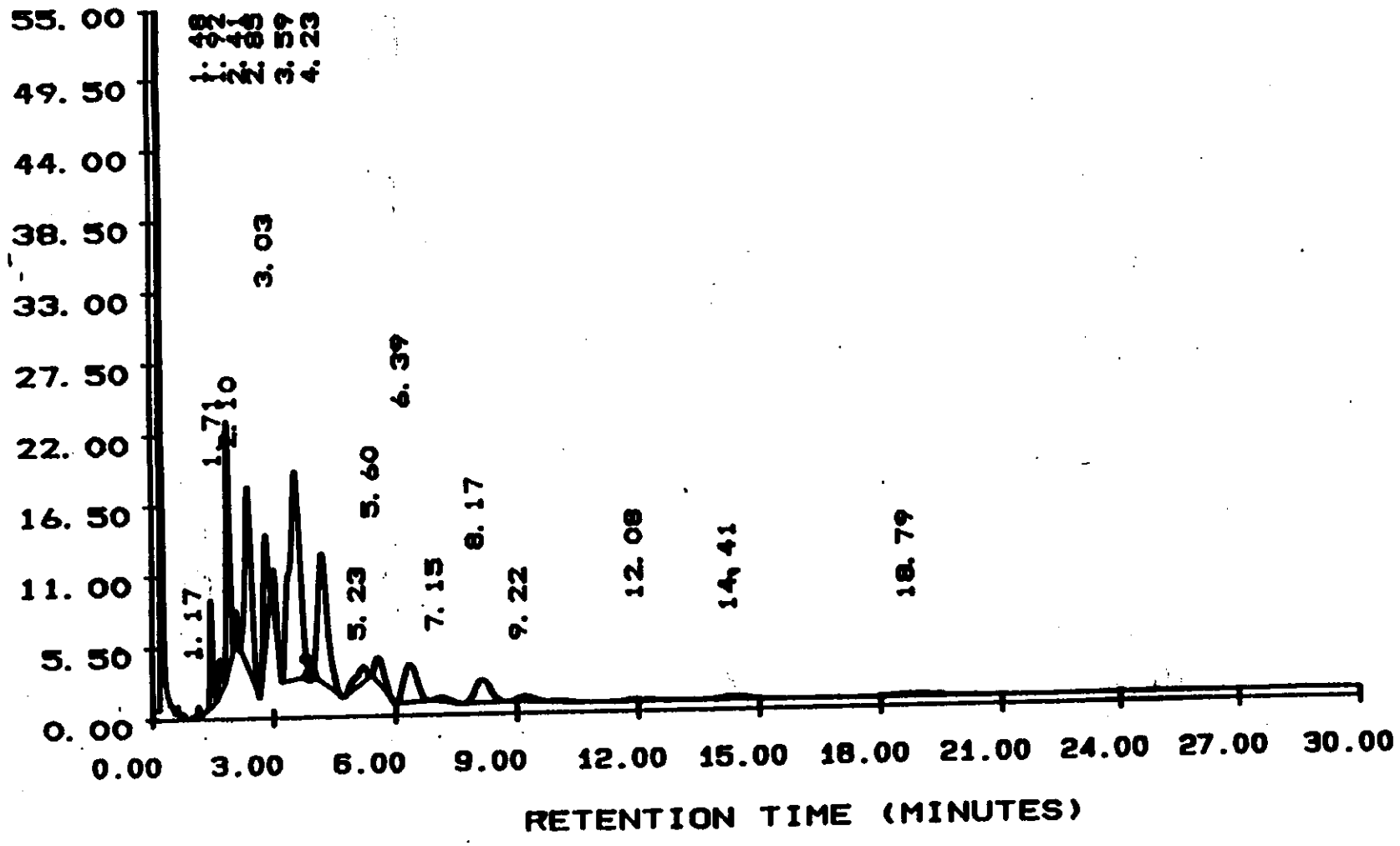
1 DBC

041

AR1248M

SAMPLE NO. : 11099005 .33
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/10/90 12:34:01
PAGE NO. : 01



Y MAXIMUM: 18562.
Y MINIMUM: 2338.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/10/90 13:04:31

EXTERNAL STANDARD

012

SAMPLE: 11099005 .33 INST:05 VIAL: 0 SEQ NUMBER:033
TEST : DATE-TIME INJECTED : 11/10/90 12:34:01
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/10/90 13:04:31
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1248M RAW FILE: RAW2:KA043909
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	7308	1695	V	1.166			
002	120688	21609	V	1.483			
003	48691	7372	V	1.706			
004	339600	52258	V	1.920			
005	37399	7816	V	2.104			
006	474837	42690	V	2.413			
007	169114	21204	V	2.851			
008	70532	11476	V	3.033			
009	890742	47582	V	3.593			
010	478084	29636	V	4.234			
011	74894	3380	V	5.226			
012	91650	6178	V	5.595			
013	194398	8687	V	6.386			
014	24134	1132	V	7.155			
015	139789	5397	V	8.166			
016	50344	1373	V	9.216			
017	27366	512	V	12.081			
018	36368	826	V	14.407			
019	50125	652		18.795			

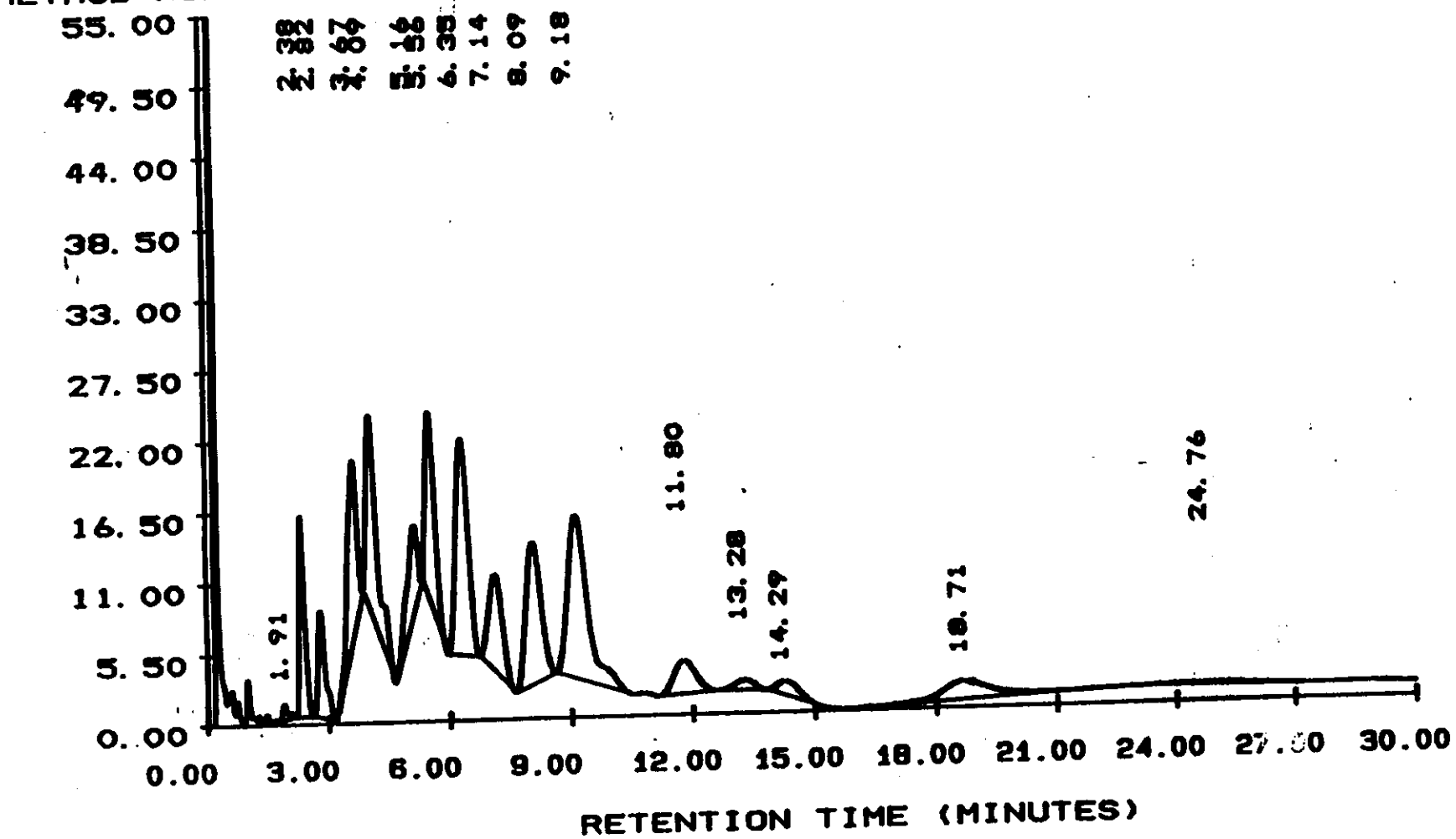
1 DBC

013

AR1254M

SAMPLE NO. : 11099005 .44
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/10/90 18:34:50
PAGE NO. : 01



Y MAXIMUM: 11256.
Y MINIMUM: 2137.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/10/90 19:05:09

EXTERNAL STANDARD

045

SAMPLE: 11099005 .44 INST:05 VIAL: 0 SEQ NUMBER:044
TEST : DATE-TIME INJECTED : 11/10/90 18:34:50
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/10/90 19:05:09
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1254M RAW FILE: RAW2:KA044016
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	20911	1971	V	1.915			
002	232442	25558	V	2.375			
003	159670	13700	V	2.824			
004	354282	21584	V	3.673			
005	457293	25964	V	4.093			
006	208116	10399	V	5.164			
007	383893	25030	V	5.564			
008	575876	28011	V	6.351			
009	287067	12588	V	7.144			
010	470501	18185	V	8.092			
011	709814	21081	V	9.176			
012	159373	4338	V	11.800			
013	43635	1350	V	13.284			
014	71432	1882	V	14.287			
015	212059	2424		18.709			
016	25460	227		24.757			

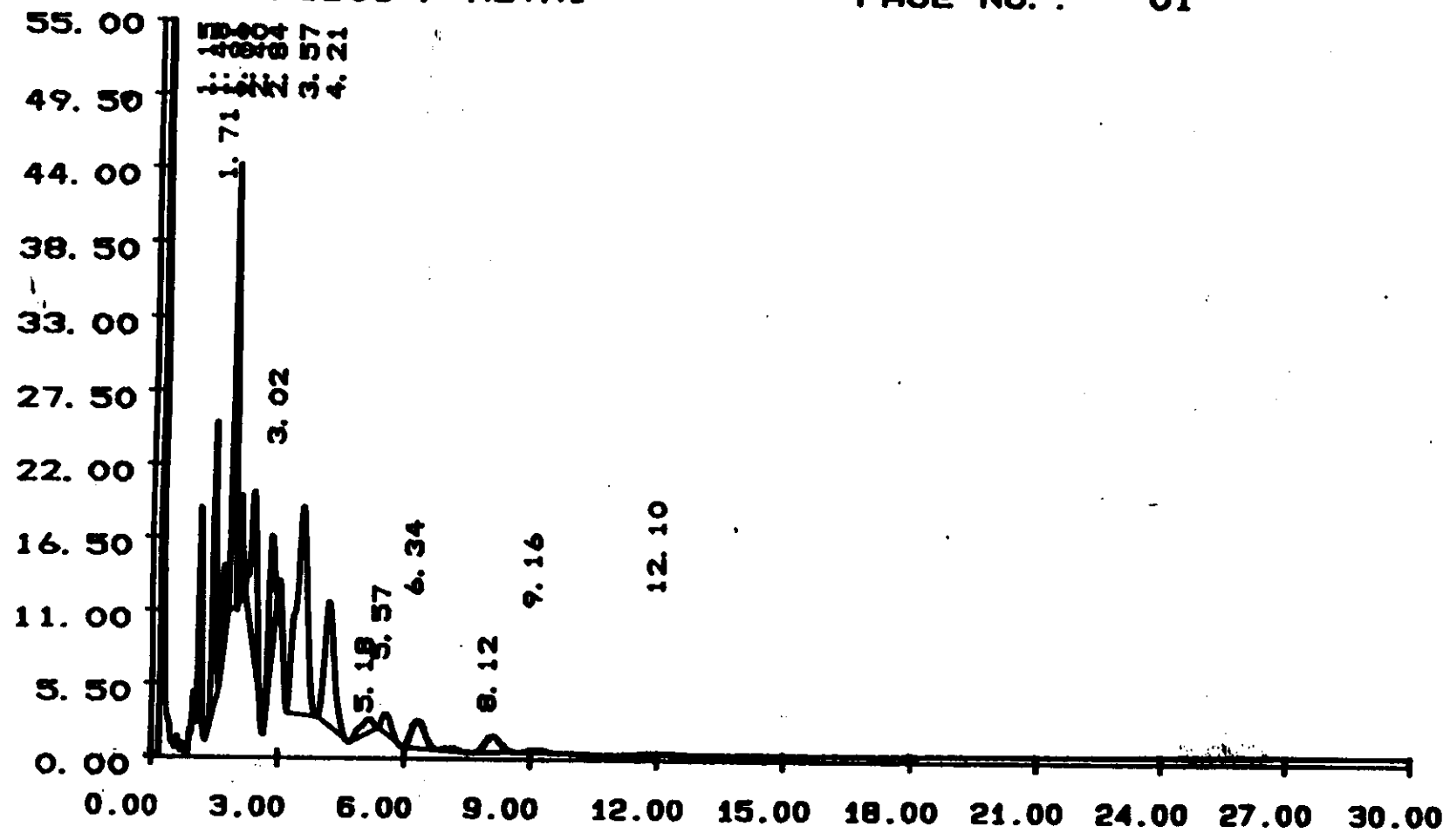
1 DBC

045

AR1242M

SAMPLE NO. : 11099005 .50
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/10/90 21:50:05
PAGE NO. : 01



Y MAXIMUM: 11849.
Y MINIMUM: 2038.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/10/90 22:20:31

041

EXTERNAL STANDARD

SAMPLE: I1099005 .50 INST:05 VIAL: 0 SEQ NUMBER:050
TEST :
COLLECTION TIME : 29.98
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL
CLIENT ID:
CLIENT:
LAB ID: AR1242M
SAMPLE WT : % MOISTURE :

DATE-TIME INJECTED : 11/10/90 21:50:05
DATE-TIME PROCESSED : 11/10/90 22:20:31
SAMP RATE: 0.78
SAMPLE VOL: 3.0 ul
COLUMN TYPE: 2250/2401
RAW FILE: RAW2:KA044077
DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	125276	25389	V	1.153			
002	206189	35304	V	1.476			
003	61056	9257	V	1.711			
004	327156	55228	V	1.908			
005	68448	13122	V	2.091			
006	245098	22568	V	2.397			
007	133657	15720	V	2.837			
008	30701	5802	V	3.016			
009	501734	28007	V	3.573			
010	263502	16844	V	4.213			
011	41744	1852	V	5.183			
012	43130	2929	V	5.570			
013	96246	3807	V	6.341			
014	57810	2249	V	8.119			
015	12818	431	V	9.161			
016	16864	238		12.096			

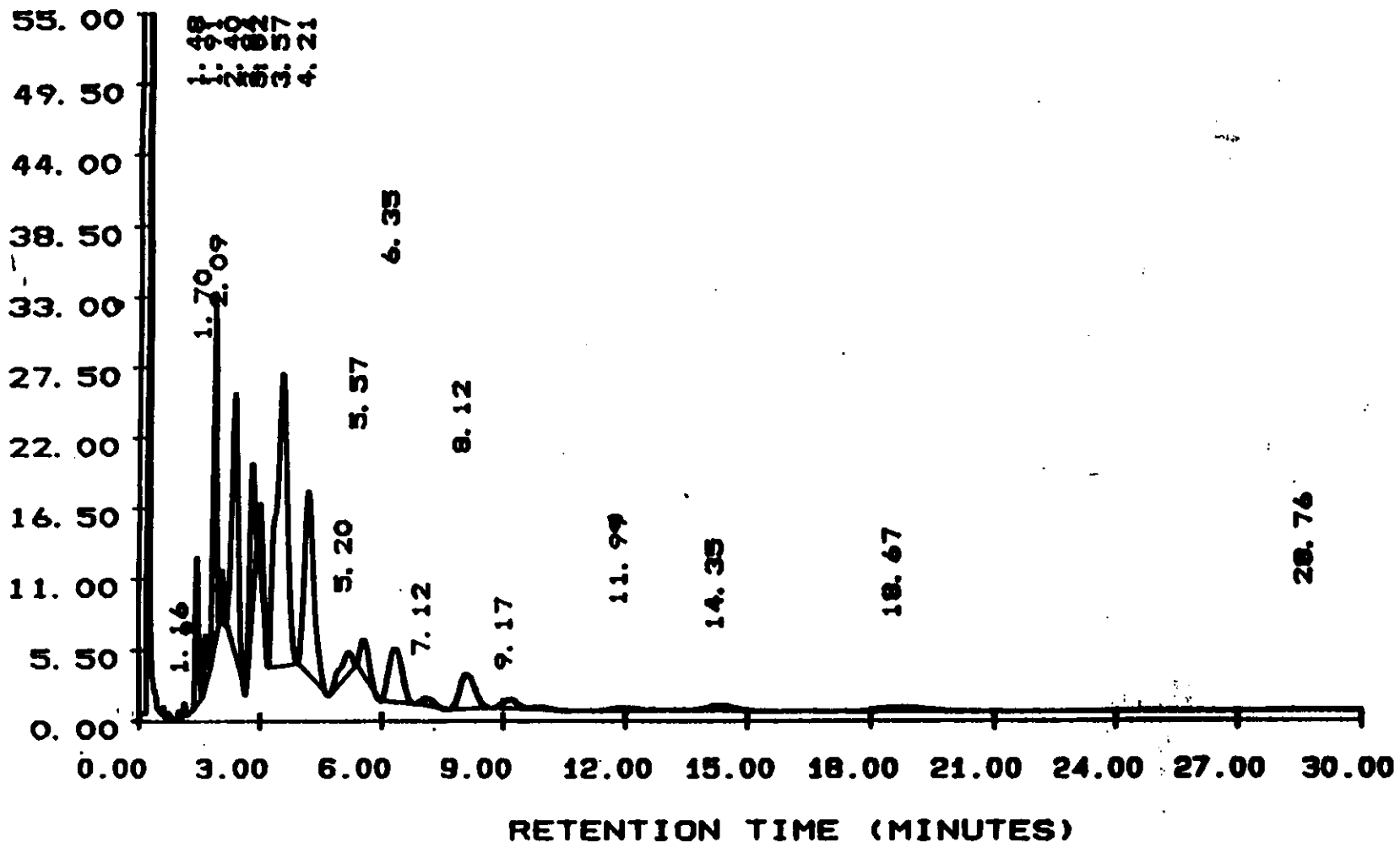
1 DBC

047

AR1248M

SAMPLE NO. : 11099005 .57
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/11/90 15:00:00
PAGE NO. : 01



Y MAXIMUM: 14344.
Y MINIMUM: 1989.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/11/90 15:30:27

EXTERNAL STANDARD

048

SAMPLE: 11099005 .57 INST:05 VIAL: 0 SEQ NUMBER:057
TEST : DATE-TIME INJECTED : 11/11/90 15:00:00
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/11/90 15:30:27
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1248M RAW FILE: RAW2:KB044344
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	6343	1710	V	1.160			
002	132952	23300	V	1.476			
003	53248	8097	V	1.698			
004	355095	57787	V	1.910			
005	42607	8679	V	2.094			
006	501313	45878	V	2.401			
007	182024	23253	V	2.836			
008	82822	12892	V	3.022			
009	941656	50918	V	3.574			
010	517619	32233	V	4.212			
011	83575	3697	V	5.198			
012	98110	6544	V	5.567			
013	208568	9432	V	6.349			
014	29817	1390	V	7.123			
015	157651	6110	V	8.123			
016	60610	1638	V	9.172			
017	28668	536	V	11.989			
018	42350	971		14.347			
019	59341	774		18.667			
020	17704	209		28.757			

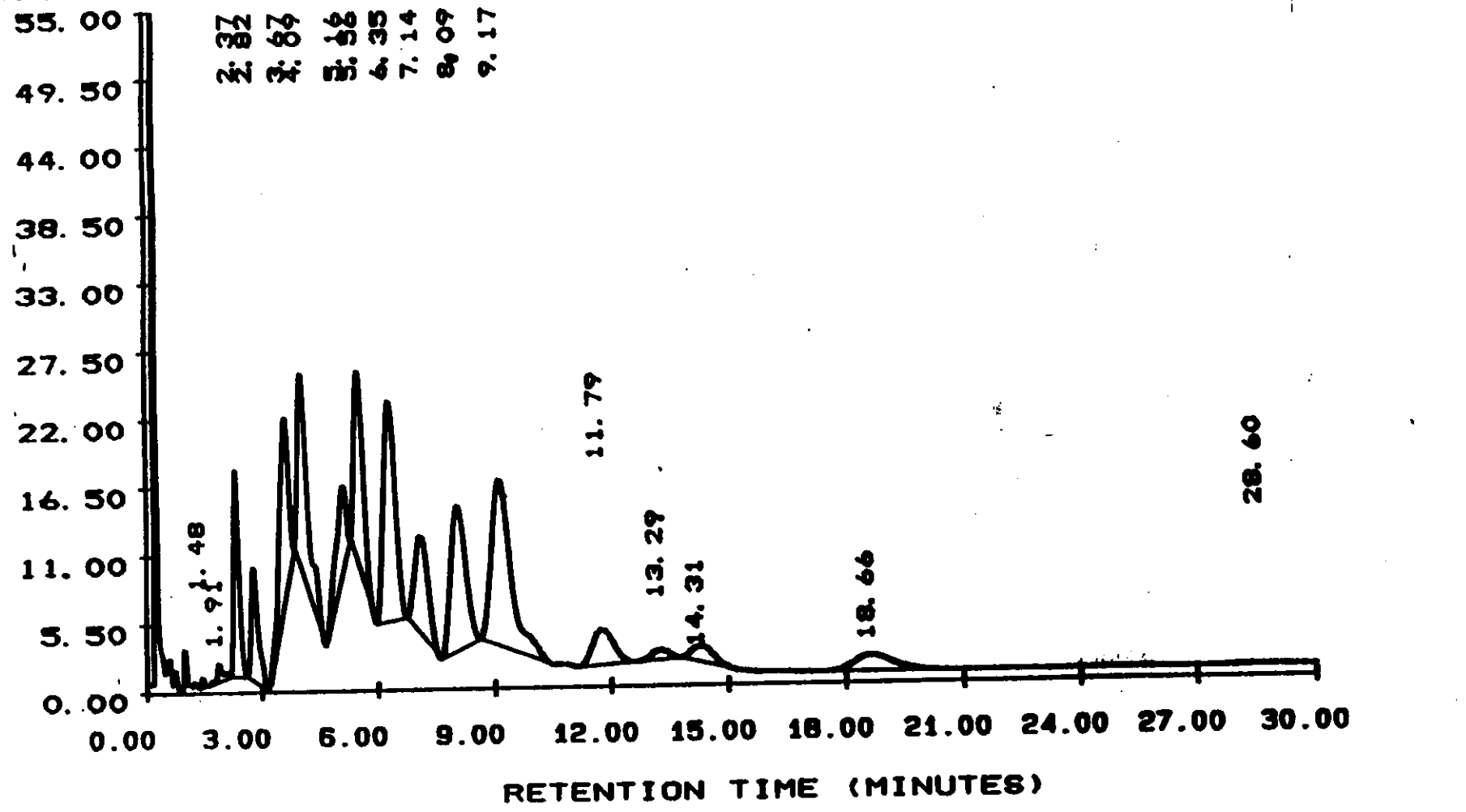
1 DBC

040

AR1254M

SAMPLE NO. : 11099005 .63
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/11/90 18:15:03
PAGE NO. : 01



Y MAXIMUM: 10906.
Y MINIMUM: 2006.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/11/90 18:45:29

EXTERNAL STANDARD

0.59

SAMPLE: 11099005 .63 INST:05 VIAL: 0 SEQ NUMBER:063
TEST : DATE-TIME INJECTED : 11/11/90 18:15:03
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/11/90 18:45:29
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SAMPLE VOL: 3.0 ul
CLIENT: COLUMN TYPE: 2250/2401
LAB ID: AR1254M RAW FILE: RAW2:KB044400
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	5698	1064	V	1.481			
002	25668	2208	V	1.914			
003	246298	26597	V	2.374			
004	173778	14810	V	2.823			
005	375744	22405	V	3.672			
006	470221	26485	V	4.092			
007	204506	10640	V	5.163			
008	407057	26014	V	5.562			
009	594752	28747	V	6.351			
010	294688	12930	V	7.141			
011	488225	18696	V	8.090			
012	740285	21644	V	9.172			
013	168456	4558	V	11.794			
014	40071	1265	V	13.291			
015	82709	2120		14.307			
016	153262	2161		18.663			
017	17142	211		28.605			

1 DBC

V. **Raw QC Data**

A. Blank Data

B. Matrix Spike Data

C. Matrix Spike Duplicate Data

V. **Raw QC Data**

A. Blank Data

1. Tabulated Results, Forms 1

2. Pesticide/PCB Raw Data in Order by:

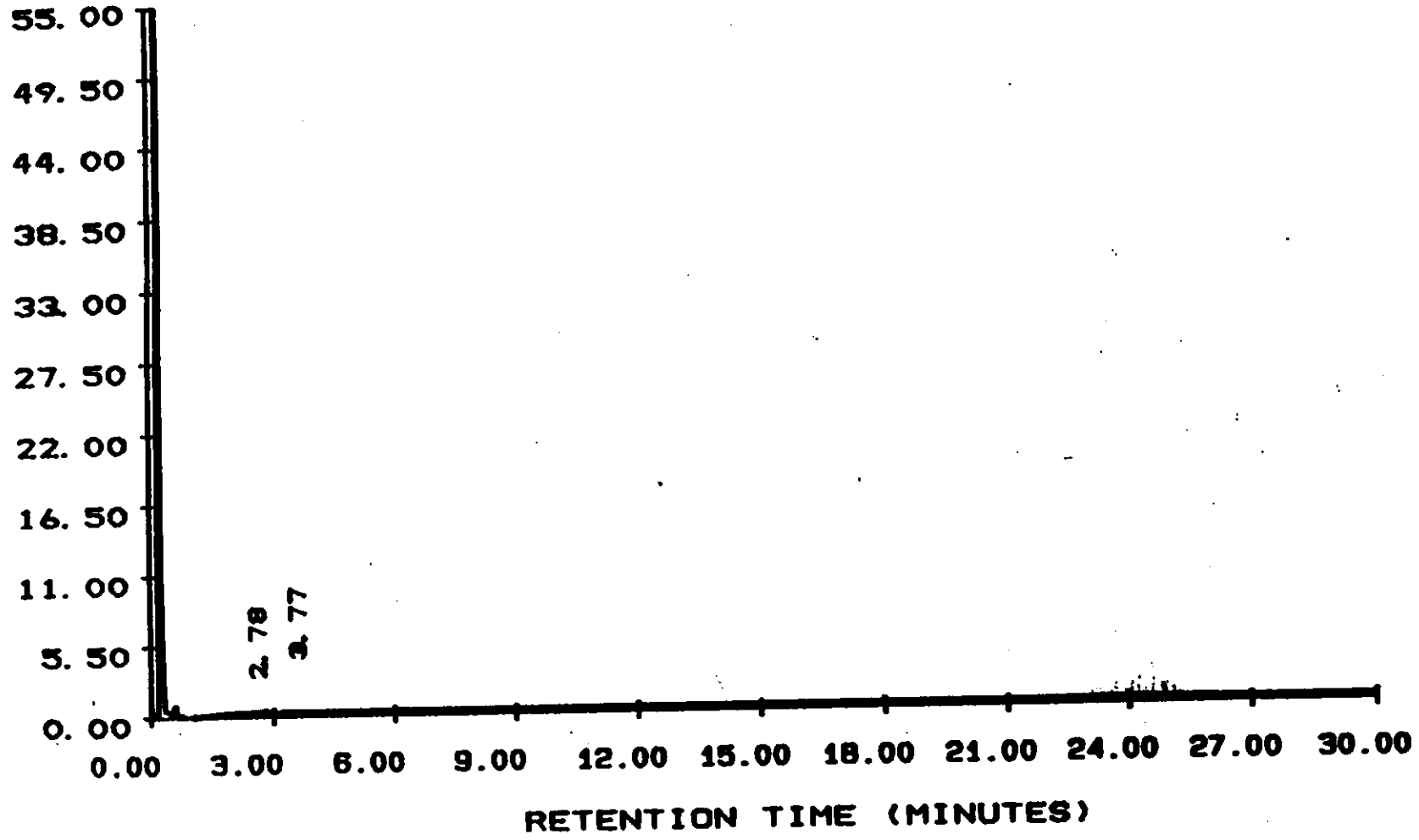
a. 2250/2401 Column
b. SP2100 Column

050

90DL0491-MB1

SAMPLE NO. : 11099005 .55
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/11/90 13:54:19
PAGE NO. : 01



Y MAXIMUM: 36261.
Y MINIMUM: 1889.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/11/90 14:24:52

EXTERNAL STANDARD

SAMPLE: 11099005 .55 INST:05 VIAL: 0 SEQ NUMBER:055
TEST : OPCB DATE-TIME INJECTED : 11/11/90 13:54:19
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/11/90 14:24:52
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: PBLK SAMPLE VOL: 3.0 ul
CLIENT: LAB COLUMN TYPE: 2250/2401
LAB ID: 90DL0491-MB1 RAW FILE: RAW2:KB044323
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	119451	1560	V	2.783			
002	67642	633		3.774			

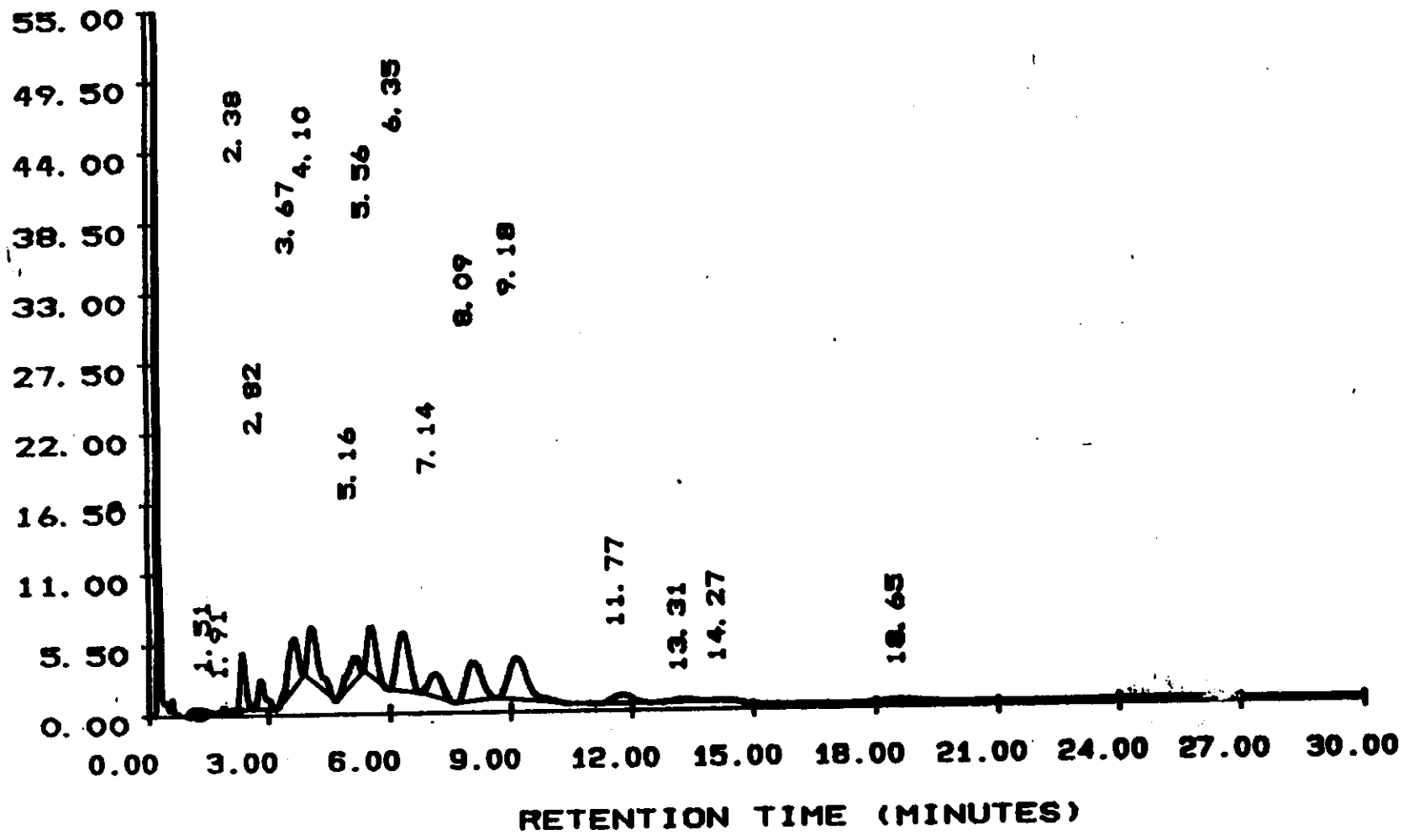
1 DBC

035

90DL0491-MB1S

SAMPLE NO. : 11099005 .56
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/11/90 14:27:08
PAGE NO. : 01



Y MAXIMUM: 36828.
Y MINIMUM: 1946.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/11/90 14:57:43

EXTERNAL STANDARD

056

SAMPLE: 11099005 .56 INST:05 VIAL: 0 SEQ NUMBER:056
TEST : OPCB-S DATE-TIME INJECTED : 11/11/90 14:27:08
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/11/90 14:57:43
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: PBLK SAMPLE VOL: 3.0 ul
CLIENT: LAB COLUMN TYPE: 2250/2401
LAB ID: 90DL0491-MB1MS RAW FILE: RAW2:KB044333
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	10375	1309	V	1.505			
002	14451	2213	V	1.911			
003	263576	27804	V	2.375			
004	177600	14315	V	2.825			
005	395751	23312	V	3.667			
006	488512	26964	V	4.095			
007	231807	11046	V	5.163			
008	373169	24983	V	5.560			
009	605722	29149	V	6.348			
010	277070	12214	V	7.137			
011	514211	19535	V	8.091			
012	685261	21034	V	9.176			
013	162796	4500	V	11.773			
014	54490	1619	V	13.307			
015	43116	1169	V	14.268			
016	100058	1517		18.652			

1 DBC

280475	6.348	AROCHLOR-1254	0.257	*

V. **Raw QC Data**

B. Matrix Spike Data

1. Tabulated Results, Forms 1

2. Pesticide/PCB Raw Data in Order by:

a. 2250/2401 Column
b. SP2100 Column

C. Matrix Spike Duplicate Data

1. Tabulated Results, Forms 1

2. Pesticide/PCB Raw Data in Order by:

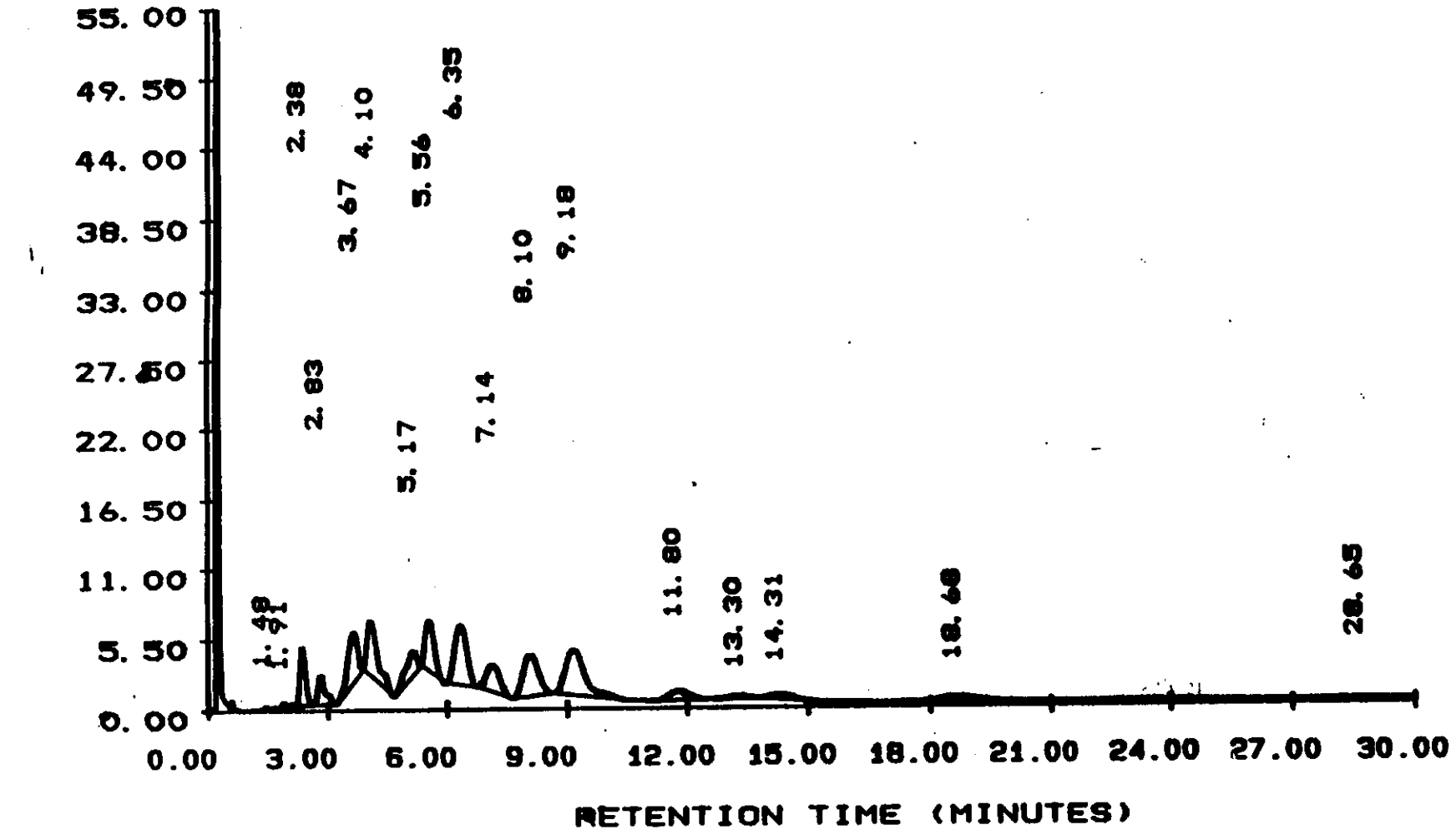
a. 2250/2401 Column
b. SP2100 Column

0-C

9011L549-001S

SAMPLE NO. : 11099005 .59
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/11/90 16:05:14
PAGE NO. : 01



Y MAXIMUM: 38939.
Y MINIMUM: 1951.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/11/90 16:35:38

EXTERNAL STANDARD

SAMPLE: 11099005 .59 INST:05 VIAL: 0 SEQ NUMBER:059
TEST : OPCB-S DATE-TIME INJECTED : 11/11/90 16:05:14
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/11/90 16:35:38
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SH190-1102-1634B4 SAMPLE VOL: 3.0 ul
CLIENT: NYSDEC COLUMN TYPE: 2250/2401
LAB ID: 9011L549-001MS RAW FILE: RAW2:KB044364
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL
001	7005	1274	V	1.484			
002	17585	2447	V	1.913			
003	285764	29750	V	2.378			
004	191315	15134	V	2.829			
005	419073	24555	V	3.671			
006	530592	29358	V	4.099			
007	243770	11834	V	5.167			
008	408334	26839	V	5.565			
009	650452	31371	V	6.350			
010	328923	14361	V	7.143			
011	571412	21754	V	8.095			
012	814949	24002	V	9.180			
013	184896	5027	V	11.798			
014	48637	1527	V	13.299			
015	105569	2677		14.311			
016	188720	2681		18.677			
017	12558	180		28.651			

1 DBC

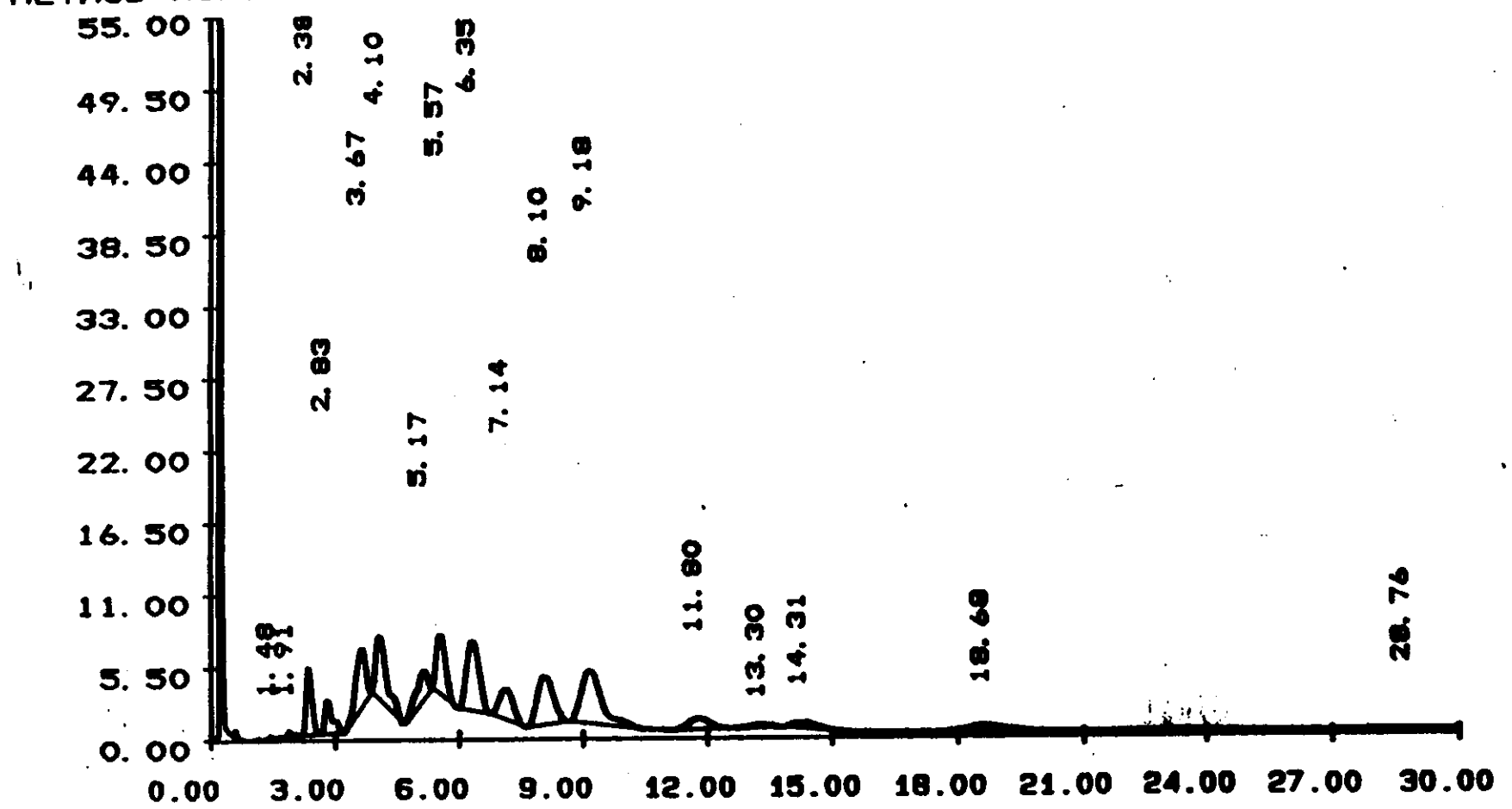
305277	6.350	AROCHLOR-1254	0.280	*

090

9011L549-001T

SAMPLE NO. : 11099005 .60
TEST NO. :
METHOD NO. : PCB05 / METH1

INSTRUMENT: 05
DATE TIME: 11/11/90 16:37:57
PAGE NO. : 01



Y MAXIMUM: 35567.
Y MINIMUM: 1940.

START TIME: 0.00
END TIME: 30.00

Roy F. Weston, Inc. - Lionville Laboratory 11/11/90 17:08:22

EXTERNAL STANDARD

051

SAMPLE: 11099005 .60 INST:05 VIAL: 0 SEQ NUMBER:060
TEST : OPCB-T DATE-TIME INJECTED : 11/11/90 16:37:57
COLLECTION TIME : 29.98 DATE-TIME PROCESSED : 11/11/90 17:08:22
METHOD: PCB05 / PCB05 REV #: 00048 ANALYST: HOHL SAMP RATE: 0.78
CLIENT ID: SH190-1102-163484 SAMPLE VOL: 3.0 ul
CLIENT: NYSDEC COLUMN TYPE: 2250/2401
LAB ID: 9011L549-001MSD RAW FILE: RAW2:KB044372
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

PK NO	PEAK AREA	PEAK HEIGHT	BL	RT MINUTES	GR #	COMPONENT NAME	HEIGHT CONC NG/UL	
001	7563	1341	V	1.483				
002	18751	2546	V	1.914				
003	299154	30944	V	2.378				
004	203576	15781	V	2.830				
005	431493	25376	V	3.673				
006	546426	30007	V	4.100				
007	250863	12261	V	5.168				
008	420412	27608	V	5.566				
009	668250	32150	V	6.351				
010	336877	14687	V	7.144				
011	596830	22633	V	8.096				
012	852922	24931	V	9.182				
013	197434	5318	V	11.804				
014	50320	1583	V	13.301				
015	112626	2836	V	14.313				
016	204727	2869		18.677				
017	13454	192		28.757				
					1	DBC		
	315171			6.351		AROCHLOR-1254	0.289	*

OK?

SAMPLE EXTRACTION RECORD

Sheet no.: 1

Extract. Date: 11/09/90 Extraction Batch No: 90DL0491 Analyst: CT Method: N/A

Test: OPCB Cleanup Date: Analyst: Client: NYSDEC-1102

LIMS Report Date: 11/14/90 Solvent: Adsorbent:

Sample No:	Client Name / Client ID	pH	Initial WT/VOL	Surr. Mult.	Spike Mult.	Final VOL	Final VOL	Split Mult.	GPC Y/N	% Solids	C/D FACTOR
9011L549-	NYSDEC-1102										
001	SH190-1102-1634B4	7	10.0	1.0		10		1.0	N	96.0	1041.7
001 -S	SH190-1102-1634B4	7	10.0	1.0	1.0	10		1.0	N	96.0	1041.7
001 -T	SH190-1102-1634B4	7	10.0	1.0	1.0	10		1.0	N	96.0	1041.7
002	SH190-1102-1634C2	7	10.0	1.0		10		1.0	N	97.0	1030.9
90DL0491-MB1		7	10.0	1.0		10		1.0	N	100.0	1000.0
90DL0491-MB1 -S		7	10.0	1.0	1.0	10		1.0	N	100.0	1000.0

Comments:
Surrogate:
Spike:

Extracts Transferred	Relinquished By	Date Time	Received By	Date Time	Reason for Transfer

END OF DATA PACKAGE

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 1
Photo Taken By:
John Conover – NYDEC

Photo Description: Initial Removal of Soil cover from former Building No. 9

Photo No: 2
Photo Taken By:
John Conover – NYDEC

Photo Description: Soil Removal beneath "clean" soil cover

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 3
Photo Taken By:
John Conover – NYDEC

Photo Description: Soil Removal

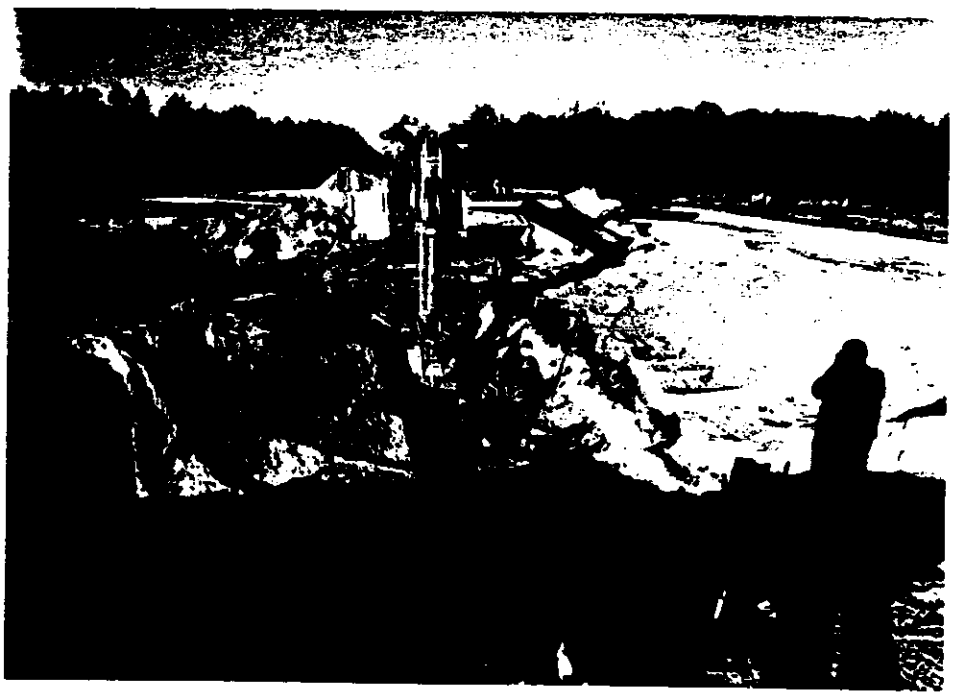


Photo No: 4
Photo Taken By:
John Conover – NYDEC

Photo Description: Soil Removal

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 5
Photo Taken By:
John Conover – NYDEC

Photo Description: Soil Removal

Photo No: 6
Photo Taken By:
John Conover – NYDEC

Photo Description: Excavated Area after First Lift

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 7
Photo Taken By:
John Conover - NYDEC

Photo Description: Excavated Area after First Lift

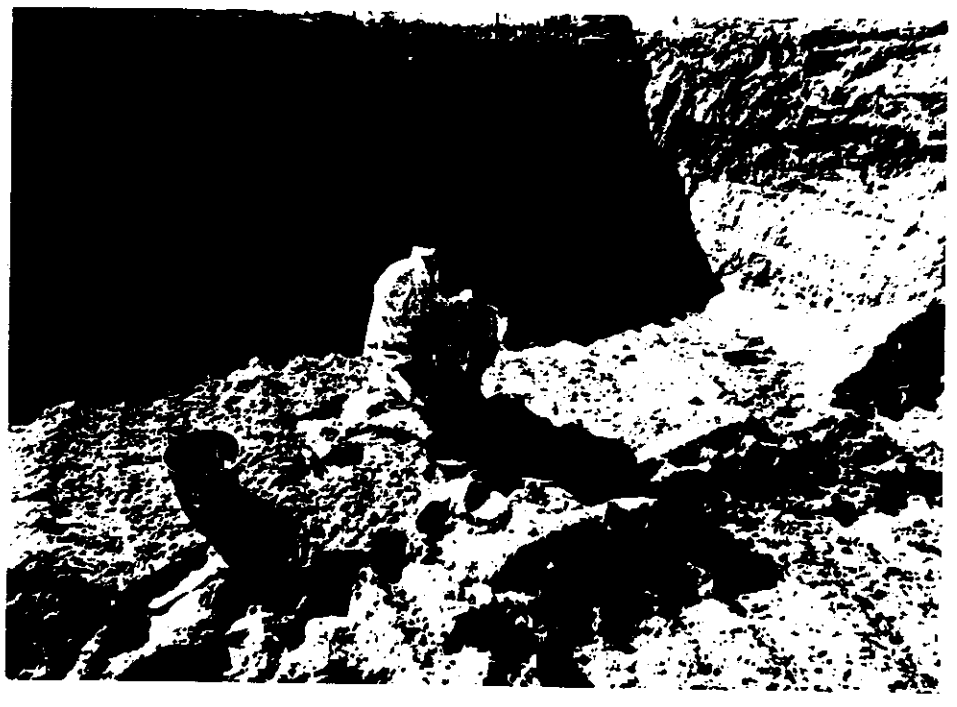


Photo No: 8
Photo Taken By:
John Conover - NYDEC

Photo Description: Sampling of Soil after First Lift

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 9
Photo Taken By:
John Conover – NYDEC

Photo Description: Wall sample location

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 10
Photo Taken By:
John Conover – NYDEC

Photo Description: Removal of Additional Soil

Photo No: 11
Photo Taken By:
John Conover – NYDEC

Photo Description: Removal of Additional Soil

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

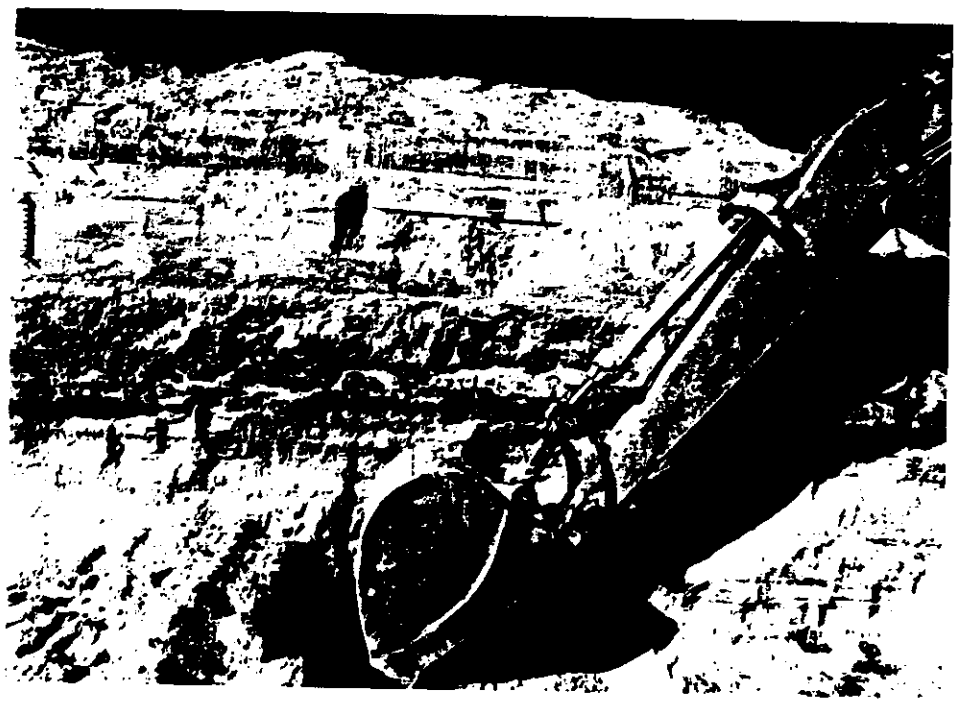


Photo No: 12
Photo Taken By:
John Conover – NYDEC

Photo Description: Removal of Additional Soil

Photo No: 13
Photo Taken By:
John Conover – NYDEC

Photo Description: Sampling after Second Lift

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 14
Photo Taken By:
John Conover – NYDEC

Photo Description: Excavation after North Wall Collapse

Photo No: 15
Photo Taken By:
John Conover – NYDEC

Photo Description: Soil and Wall Removal

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 16
Photo Taken By:
John Conover – NYDEC

Photo Description: Soil and Wall Removal

Photo No: 17
Photo Taken By:
John Conover – NYDEC

Photo Description: Excavation after Final Removal

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 18
Photo Taken By:
John Conover – NYDEC

Photo Description: Excavation after Final Removal

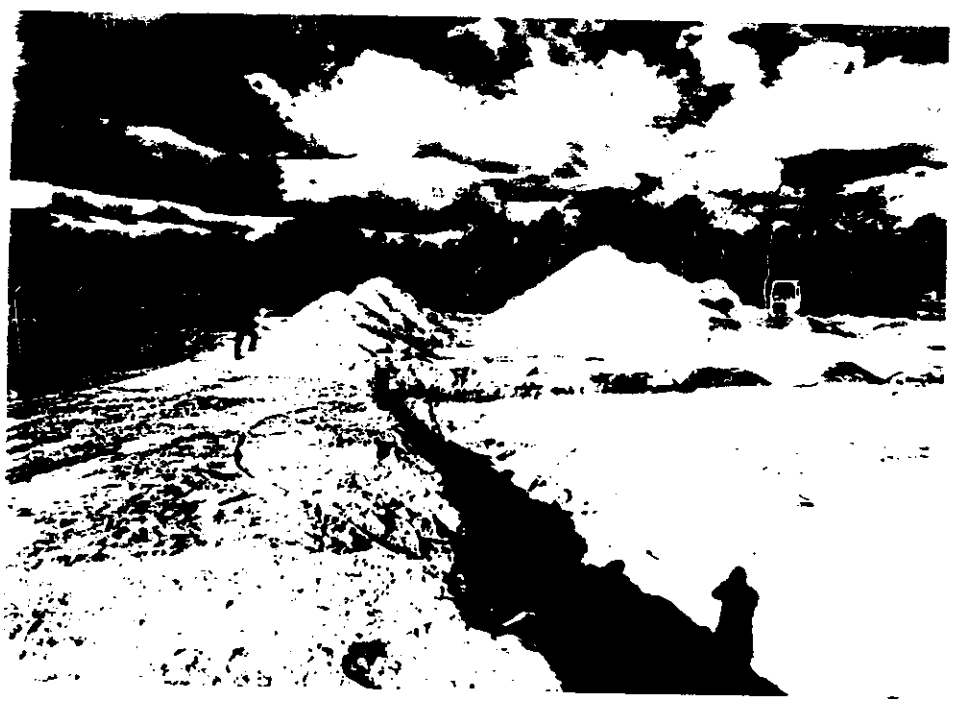


Photo No: 19
Photo Taken By:
John Conover – NYDEC

Photo Description: Stockpile Sampling

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

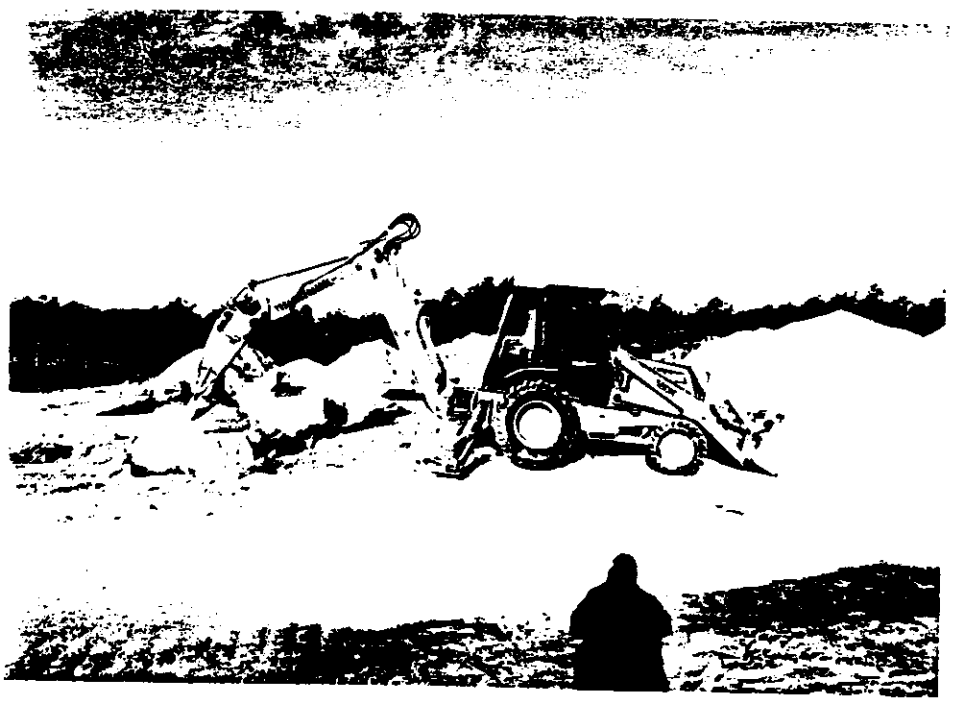


Photo No: 20
Photo Taken By:
John Conover – NYDEC

Photo Description: Cleaning of Footings

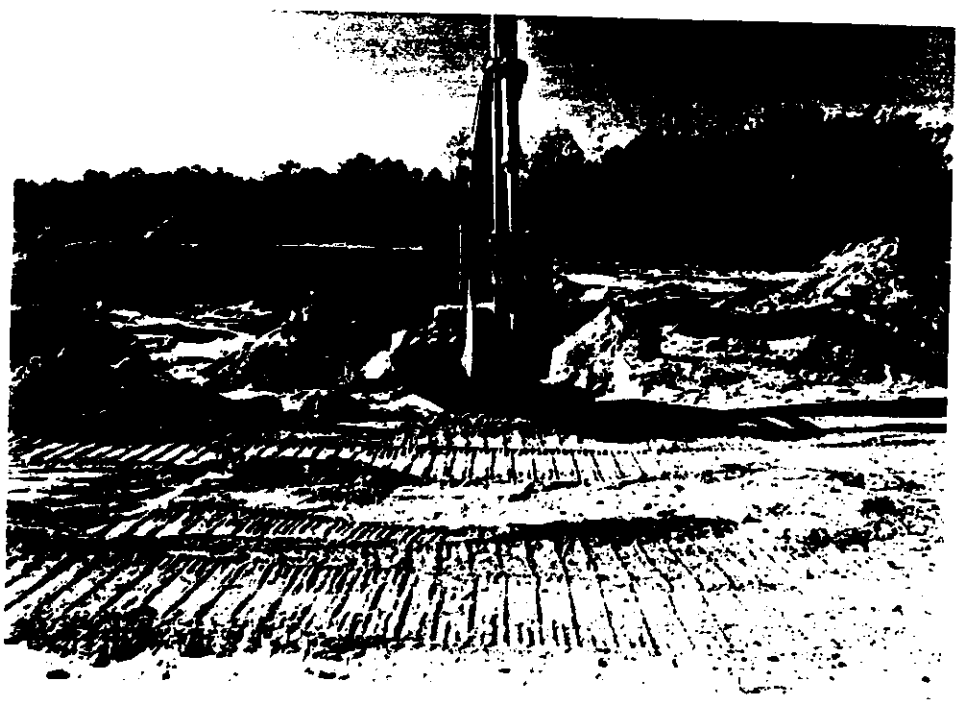


Photo No: 21
Photo Taken By:
John Conover – NYDEC

Photo Description: Removal of Footings

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 22
Photo Taken By:
John Conover – NYDEC

Photo Description: Loading of Disposal Trucks

Photo No: 22
Photo Taken By:
John Conover – NYDEC

Photo Description: Loading of Disposal Trucks

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

Photo No: 24
Photo Taken By:
John Conover – NYDEC

Photo Description: Loading of Disposal Trucks

Photo No: 25
Photo Taken By:
John Conover – NYDEC

Photo Description: Clean Backfill Material

PHOTOGRAPH DESCRIPTION SHEET

Job Title: Rocky Point State Game Lands, Rocky Point, New York

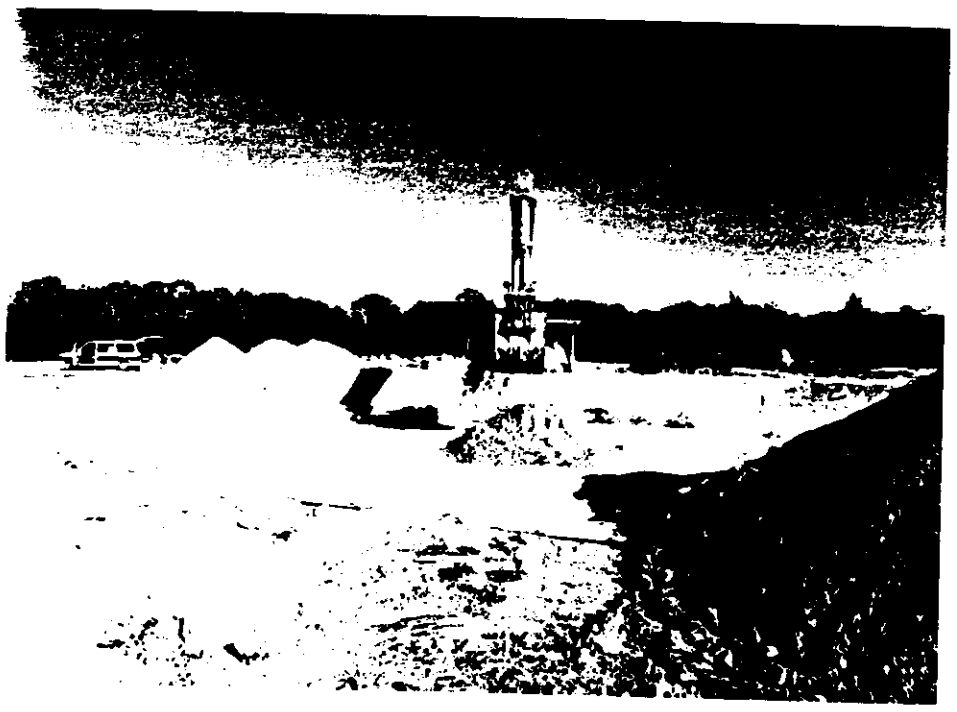


Photo No: 26
Photo Taken By:
John Conover - NYDEC

Photo Description: Disposal Soil Stockpile

Photo No: 27
Photo Taken By:
John Conover - NYDEC

Photo Description: Completely Backfill Excavation