VOLUME 3

PRIVATE WELL

LABORATORY RESULTS

For

Davis Liquid Site

REM II

PERFORMANCE OF REMEDIAL RESPONSE ACTIVITIES AT UNCONTROLLED HAZARDOUS WASTE SITES

U.S. EPA CONTRACT NO. 68-01-6939

CAMP DRESSER & McKEE INC.
ROY F. WESTON, INC.
WOODWARD-CLYDE CONSULTANTS
CLEMENT ASSOCIATES, INC.
ICF INCORPORATED
C. C. JOHNSON & ASSOCIATES, INC.

VOLUME 3

PRIVATE WELL

LABORATORY RESULTS

For

Davis Liquid Site

EPA Contract No.: 68-01-6939/117/WP1

Work Assignment No.: 18-I1107

Dcoument No.: 117-WP1-RT-BJMQ-1

DAVIS LIQUID SITE
Smithfield, Rhode Island

TABLE OF CONTENTS

SERIES: Private Wells

INTRODUCTION

This volume is apart of a series that presents all validated organic laboratory analyses results pertaining to the private well sampling conducted at the Davis Liquid Site in Smithfield, Rhode Island. The series is a collection of five different cases in which each case is contained in two volumes. The first case, Number 3633, was received by Radian Laboratory on December 7, 1984 and included 14 samples. The second case, Number 3969, was received by GCA Corporation on March 1, 1985 and included 15 samples. The third case, Number 3981, was received by GCA Corporation on March 8, 1985 and included 15 samples. The fourth case, Number 4005, was received by ChemTech on March 13, 1985 and included 10 private well samples. The final case, Number 4124, was received by GCA Corporation on April 5, 1985 and included 10 private well samples. This volume contains case Number 3969.

In addition to the lab results, two summary tables have been included. Table 1 is a list of each case nubmer with the corresponding Sample Management Office (SMO) organic traffic numbers. Table 2 contains a summary of the validated lab analysis reports from the case contained in this volume. At the top of the summary sheets, the well location and resident are matched to their respective SMO traffic numbers.

Organic analyses results from each case are each contained in bound volumes marked accordingly on the covers. These volumes have been tabbed at the beginning of each sample by their sample SMO traffic numbers for easy reference. The first page of results, at the tab are the volatile compounds, the second page contains the semi-volatile compounds and the third page contains the pesticide/PCB compounds. These three pages contain the compounds on the Hazardous Substances List (HSL). Immediately following are two pages which allow write-in space for an additional 10 volatile compounds and 20 semi-volatile compounds which may be matched through a mass spectral library search. They are listed as tentatively present. The rest of the volume consists of the lab QA/QC program.

NOTE:

The validation process has not yet been completed for the fourth and fifth cases, numbers 4005 and 4124. Upon receiving validation, these two cases will be added to this collection of data making this series on private well data complete. Validation completion is expected by mid-September, 1985.

TABLE 1

PRIVATE WELLS

CASE #3969

AB 025

AB 026

AB 027

AB 028

AB 029

AB 030

AB 031

AB 032

AB 033

AB 034

AB 035

AB 036

AB 037

AB 038

AB 039

TABLE 2

3/8/95

PRIVATE WELLS

Volatile Organics Analysis

CAS Number		Sample I.D.	PIMENTA	HAYWARD	CRETELLA	DUP TO PW-03	McCANN	BASTIEN	CASEY	DUP TO PW-07	TRIP BLANK	MOWRY	TIERNEY
		EPA	AB025	AB026	AB027	AB028	AB029	AB030	AB031	AB032	AB033	AB034	AB035
		SMO	PW-07	PW-06	PW-05	PW-04	PW-03	PW-02	PW-01	TRIP-08	PW-15	PW-12	PW-13
74-87-3	Chloromethane												
74-83-9	Bromomethane												
75-01-4	Vinyl Chloride												
75-00-3	Chloroethane												
75-09-2	Methylene Chloride		R	R	R	7.1	R	R	R	R	R	R	R
67-64-1	Acetone		46										
75-15-0	Carbon Disulfide					R							
75-35-4	1,1-Dichloroethene												
75-34-3	1,1-Dichloroethane												
156-60-5	Trans-1,2-Dichloroethene												
67-66-3	Chloroform					1.8 K							
107-06-2	1,2-Dichloroethane												
78-93-3	2-Butanone												
71-55-6	1,1,1-Trichloroethane												
56-23-5	Carbon Tetrachloride												
108-05-4	Vinyl Acetate												
75-27-4	Bromodichloromethane												
79-34-5	1,1,2,2-Tetrachloroethane												
78-87-5	1,2-Dichloropropane												
10061-02-6	Trans-1,3-Dichloropropene												
79-01-6	Trichloroethene												
124-48-1	Dibromochloromethane												
79-00-5	1,1,2-Trichloroethane												
71-43-2	Benzene						7.3						
10061-01-5	cis-1,3-Dichloropropene												
110-75-8	2-Chloroethylvinylether												
75-25-2	Bromoform												
591-78-6	2-Hexanone												
108-10-1	4-Methyl-2-Pentanone												
127-18-4	Tetrachloroethene												
108-88-3	Toluene												
108-90-7	Chlorobenzene												
100-41-4	Ethylbenzene												
100-42-5	Styrene												
	Total Xylenes							14 J					
	Total ppms =		46	0	0	8.9	7.8	104	7	0	0	0	0

Semivolatile Organics Analysis

CAS Number		Sample I.D. EPA SMO	AB025	AB026	AB027	AB028	AB029	AB030	AB031	AB032	AB033	AB034	AB 35
62-75-9	N-Nitrosodimethylamine												
108-95-2	Phenol												
62-53-3	Aniline												
111-44-4	bis(-2-Chloroethyl)Ether												
95-57-8	2-Chlorophenol												
541-73-1	1, 3-Dichlorobenzene												
106-46-7	1, 4-Dichlorobenzene												
100-51-6	Benzyl Alcohol												
95-50-1	1, 2-Dichlorobenzene												
95-48-7	2-Methylphenol												
39638-32-9	bis(2-chloroisopropyl)Ether												
106-44-5	4-Methylphenol												
621-64-7	N-Nitroso-Di-n-Propylamine												
67-72-1	Hexachloroethane												
98-95-3	Nitrobenzene												
78 59-1	Isophorone												
88-75-5	2-Nitrophenol												
105-67-9	2, 4-Dimethylphenol												
65-85-0	Benzoic Acid												
111-91-1	bis(-2-Chloroethoxy)Methane		12 R	3K R	4K R	9 R	4 R		2K R				
120-83-2	2, 4-Dichlorophenol												
120-82-1	1, 2, 4-Trichlorobenzene												
91-20-3	Naphthalene							31					
106-47-8	4-Chloroaniline												
87-68-3	Hexachlorobutadiene												
59-50-7	4-Chloro-3-Methylphenol												
91-57-6	2-Methylnaphthalene							59					
77-47-4	Hexachlorocyclopentadiene												
88-06-2	2, 4, 6-Trichlorophenol												
95-95-4	2, 4, 5-Trichlorophenol												
91-58-7	2-Chloronaphthalene												
88-74-4	2-Nitroaniline												
131-11-3	Dimethyl Phthalate												
208-96-8	Acenaphthylene												
99-09-2	3-Nitroaniline												

90

Semivolatile Organics Analysis

CAS Number		Sample I.D. EPA SMO										
		AB 25	AB 26	AB 27	AB 23	AB 29	AB 30	AB 31	AB 32	AB 33	AB 34	AB 35
83-32-9	Acenaphthene											
51-28-5	2, 4-Dinitrophenol											
100-02-7	4-Nitrophenol											
132-64-9	Dibenzofuran											
121-14-2	2, 4-Dinitrotoluene											
606-20-2	2, 6-Dinitrotoluene											
84-66-2	Diethylphthalate											
7005-72-3	4-Chlorophenyl-phenylether											
86-73-7	Fluorene							7 K				
100-01-6	4-Nitroaniline											
534-52-1	4, 6-Dinitro-2-Methylphenol											
86-30-6	N-Nitrosodiphenylamine (1)											
101-55-3	4-Bromophenyl-phenylether											
118-74-1	Hexachlorobenzene											
87-86-5	Pentachlorophenol											
85-01-8	Phenanthrene											
120-12-7	Anthracene											
84-74-2	Di-n-Butylphthalate											
206-44-0	Fluoranthene											
92-87-5	Benzidine											
129-00-0	Pyrene											
85-68-7	Butylbenzylphthalate											
91-94-1	3, 3'-Dichlorobenzidine											
56-55-3	Benzo(a)Anthracene											
117-81-7	bis(2-Ethylhexyl)Phthalate							7K R	5K R	7K R		4B R
218-01-9	Chrysene											
117-84-0	Di-n-Octyl Phthalate											
205-99-2	Benzo(b)Fluoranthene											
207-08-9	Benzo(k)Fluoranthene											
50-32-8	Benzo(a)Pyrene											
193-39-5	Indeno(1, 2, 3-cd)Pyrene											
53-70-3	Dibenz(a, h)Anthracene											
191-24-2	Benzo(g, h, i)Perylene											
	XYLENE							TP.				

7

Pesticide/PCBs Analysis

CAS Number		Sample ID EPA SMO										
		AB 25	AB 26	AB 27	AB 28	AB 29	AB 30	AB 31	AB 32	AB 33	AB 34	AB 35
319-84-6	Alpha-BHC											
319-85-7	Beta-BHC											
319-86-8	Delta-BHC											
58-89-9	Gamma-BHC (Lindane)											
76-44-8	Heptachlor											
309-00-2	Aldrin											
1024-57-3	Heptachlor Epoxide											
959-98-8	Endosulfan I											
60-57-1	Dieldrin											
72-55-9	4 4'-DDE											
72-20-8	Endrin											
33213-65-9	Endosulfan II											
72-54-8	4 4'-DDD											
7421-93-4	Endrin Aldehyde											
1031-07-8	Endosulfan Sulfate											
50-29-3	4 4'-DDT											
72-43-5	Methoxychlor											
53494-70-5	Endrin Ketone											
57-74-9	Chlordane											
8001-35-2	Toxaphene											
12674-11-2	Aroclor-1016											
11104-28-2	Aroclor-1221											
11141-16-5	Aroclor-1232											
53469-21-9	Aroclor-1242											
12672-29-6	Aroclor-1248											
11097-69-1	Aroclor-1254											
11096-82-5	Aroclor-1260											

'Case #3981 ¢ CASE #3969
3/2/85 3/1/85

Volatile Organics Analysis

CAS Number												
	HOME ~~Sample ID~~			COLPACK	HORNER	TRIP BLANK	DUP TO PW-27	POWERS	FIELD BLANK ~~MOORY~~	NYHAN	QUIMETTE	OGILVIE ~~OGIV~~
	EPA			AB 050	AB051	AB054	AB052	AB053	AB036	AB037	AB038	AB039
	SMO			PW-26	PW-27	PW-28	PW 29	PW30	~~PW-12~~	PW-11	PW 10	PW-09
74-87-3	Chloromethane											
74-83-9	Bromomethane											
75-01-4	Vinyl Chloride			R	R	R	R	R				
75-00-3	Chloroethane											
75-09-2	Methylene Chloride			~~7~~ R	~~62~~ R	~~13~~ R	~~33~~ R	~~37~~ R	31 R	~~12~~ R	~~32~~ R	~~75~~ R
67-64-1	Acetone			R	R	R	R	14 R				
75-15-0	Carbon Disulfide											
75-35-4	1, 1-Dichloroethene					5 J						
75-34-3	1, 1-Dichloroethane											
156-60-5	Trans-1, 2-Dichloroethene											
67-66-3	Chloroform											
107-06-2	1, 2-Dichloroethane											
78-93-3	2-Butanone											
71-55-6	1, 1, 1-Trichloroethane											
56-23-5	Carbon Tetrachloride											
108-05-4	Vinyl Acetate											
75-27-4	Bromodichloromethane											
79-34-5	1, 1, 2, 2-Tetrachloroethane											
78-87-5	1, 2-Dichloropropane											
10061-02-6	Trans-1, 3-Dichloropropene											
79-01-6	Trichloroethene											
124-48-1	Dibromochloromethane											
79-00-5	1, 1, 2-Trichloroethane											
71-43-2	Benzene											
10061-01-5	cis-1, 3-Dichloropropene											
110-75-8	2-Chloroethylvinylether											
75-25-2	Bromoform			R	R	R	R	R				
591-78-6	2-Hexanone											
108-10-1	4-Methyl-2-Pentanone											
127-18-4	Tetrachloroethene											
108-88-3	Toluene											
108-90-7	Chlorobenzene											
100-41-4	Ethylbenzene											
100-42-5	Styrene			R	R	R	R	R				
	Total Xylenes											
total ppm =				21	0	5	0	0	0	0	0	0

Semivolatile Organics Analysis

CAS Number		Sample I.D. EPA SMO		AB050	AB051	AB054	AB052	AB053	AB 36	AB 37	AB 38	AB 39
62-75-9	N-Nitrosodimethylamine											
108-95-2	Phenol											
62-53-3	Aniline											
111-44-4	bis(-2-Chloroethyl)Ether											
95-57-8	2-Chlorophenol											
541-73-1	1, 3-Dichlorobenzene											
106-46-7	1, 4-Dichlorobenzene											
100-51-6	Benzyl Alcohol											
95-50-1	1, 2-Dichlorobenzene											
95-48-7	2-Methylphenol											
39638-32-9	bis(2-chloroisopropyl)Ether											
106-44-5	4-Methylphenol											
621-64-7	N-Nitroso-Di-n-Propylamine											
67-72-1	Hexachloroethane											
98-95-3	Nitrobenzene											
78 59-1	Isophorone											
88-75-5	2-Nitrophenol											
105-67-9	2, 4-Dimethylphenol											
65-85-0	Benzoic Acid											
111-91-1	bis(-2-Chloroethoxy)Methane											
120-83-2	2, 4-Dichlorophenol											
120-82-1	1, 2, 4-Trichlorobenzene			R	R		R	R				
91-20-3	Naphthalene											
106-47-8	4-Chloroaniline											
87 68-3	Hexachlorobutadiene			R	R		R	R				
59-50-7	4-Chloro-3-Methylphenol											
91-57-6	2-Methylnaphthalene											
77-47-4	Hexachlorocyclopentadiene											
88-06-2	2, 4, 6-Trichlorophenol											
95-95-4	2, 4, 5-Trichlorophenol											
91-58-7	2-Chloronaphthalene											
88-74-4	2-Nitroaniline											
131-11-3	Dimethyl Phthalate											
208-96-8	Acenaphthylene			R	R		R	R				
99-09-2	3-Nitroaniline											

Semivolatile Organics Analysis

CAS Number				AB050	AB051	AB054	AB052	AB053	AB 36	AB 37	AB 38	AB 39
	Sample I.D.											
	EPA											
	SMO											
83-32-9	Acenaphthene											
51-28-5	2, 4-Dinitrophenol			R	R		R	R				
100-02-7	4-Nitrophenol											
132-64-9	Dibenzofuran											
121-14-2	2, 4-Dinitrotoluene											
606-20-2	2, 6-Dinitrotoluene											
84-66-2	Diethylphthalate											
7005-72-3	4-Chlorophenyl-phenylether											
86-73-7	Fluorene											
100-01-6	4-Nitroaniline											
534-52-1	4, 6-Dinitro-2-Methylphenol											
86-30-6	N-Nitrosodiphenylamine (1)											
101-55-3	4-Bromophenyl-phenylether											
118-74-1	Hexachlorobenzene											
87-86-5	Pentachlorophenol											
85-01-8	Phenanthrene											
120-12-7	Anthracene											
84-74-2	Di-n-Butylphthalate			R	R		R	R				
206-44-0	Fluoranthene											
92-87-5	Benzidine											
129-00-0	Pyrene											
85-68-7	Butylbenzylphthalate											
91-94-1	3, 3'-Dichlorobenzidine											
56-55-3	Benzo(a)Anthracene											
117-81-7	bis(2-Ethylhexyl)Phthalate			R	R		R	R	R	R	R	R
218-01-9	Chrysene											
117-84-0	Di-n-Octyl Phthalate			21								
205-99-2	Benzo(b)Fluoranthene											
207-08-9	Benzo(k)Fluoranthene											
50-32-8	Benzo(a)Pyrene											
193-39-5	Indeno(1, 2, 3-cd)Pyrene											
53-70-3	Dibenz(a, h)Anthracene											
191-24-2	Benzo(g, h, i)Perylene											

Pesticide/PCBs Analysis

CAS Number												
	Sample I.D.											
	EPA			AB050	AB051	AB054[illegible]	AB052	AB053	AB 34	AB 37	AB 38	AB 37
	SMO											
319-84-6	Alpha-BHC											
319-85-7	Beta-BHC											
319-86-8	Delta-BHC											
58-89-9	Gamma-BHC (Lindane)											
76-44-8	Heptachlor											
309-00-2	Aldrin											
1024-57-3	Heptachlor Epoxide											
959-98-8	Endosulfan I											
60-57-1	Dieldrin											
72-55-9	4 4'-DDE											
72-20-8	Endrin											
33213-65-9	Endosulfan II											
72-54-8	4 4'-DDD											
7421-93-4	Endrin Aldehyde											
1031-07-8	Endosulfan Sulfate											
50-29-3	4 4'-DDT											
72-43-5	Methoxychlor											
53494-70-5	Endrin Ketone											
57-74-9	Chlordane											
8001-35-2	Toxaphene											
12674-11-2	Aroclor-1016											
11104-28-2	Aroclor-1221											
11141-16-5	Aroclor-1232											
53469-21-9	Aroclor-1242											
12672-29-6	Aroclor-1248											
11097-69-1	Aroclor-1254											
11096-82-5	Aroclor-1260											
	HEXAMETHYL CYCLOTRISILOXANE				7.4 ug/L		9.0 ug/L					
					([illegible])		(T.P)					
	2-METHYL PENTANE								T.P.			
	3 METHYL PENTANE								T.P.			
	P-XYLENE											T.P

GCA

GCA CORPORATION
Technology Division

213 Burlington Road
Bedford, Massachusetts 01730
Telephone: 617-275-5444
Telex: 92-3339

April 3, 1985

Mr. Tony Nesky
RAS Sampling Coordinator
SMO - Viar and Company
300 N. Lee St., #200
Alexandria, VA 22314

Subject: Analytical Results - Water Samples - Case 3969
(GCA 3-705-050)

Dear Tony:

Enclosed please find the data package for Case 3969. Case 3969 consisted of Fourteen (14) water samples which were received at GCA/Technology Division on March 1, 1985. These samples and each of two matrix spikes underwent the following analyses:

Base/Neutral and Acid Extractable Analysis
Pesticides and PCBs Analysis
Volatile Organic analysis

Additional comments pertinent to the analyses of these samples are provided on the pages immediately following.

Please do not hesitate to contact the undersigned with any questions or concerns.

Sincerely,

Joanna M. Hall
Head, Organic Section
Laboratory Analysis Department

Approved by:

Deborah F. McGrath
Operations Manager
Laboratory Analysis Department

JH/mdp

cc: EMSL/LV
EPA, Region I
M.L. Atkinson
P. Merrill

I. NARRATIVE

GCA

Contractor GCA Contract # 68-01-6767

Narrative for Case 3969

Sample Receipt

1. Fourteen (14) water samples were received on March 1, 1985. The samples were to be analyzed for the following:

   Base/Neutral and Acid Extractable Organics Analysis
   Pesticides and PCBs analysis
   Volatile Organic Analysis

2. Upon receipt, the submitted samples were entered in the Master Log Book and assigned GCA Control Numbers as below:

BN/A, Pest/PCB	EPA I.D.	GCA Number
43215	AB 025	43229
43216	AB 026	43230
43217	AB 027	43231
43218	AB 028	43232
43219	AB 029	43233
43220	AB 030	43234
43221	AB 031	43235
43222	AB 032	43236
	AB 033	43237
43223	AB 034	43238
43224	AB 035	43239
43225	AB 036	43240
43226	AB 037	43241
43227	AB 038	43242
43228	AB 039	

GCA

Base/Neutrals and Acid Extractable

1. All samples were extracted within contract holding times.

2. Benzidine and dichlorobenzidine were not included in the base/neutral standards due to their tendancy to decompose. Two points were run for these benzidines and the data is included in Section IV.

Volatile Organics

1. All samples were analyzed within contract holding times.

2. Sample AB-028 was used for the MS/MSD. Chloroform was detected in the matrix spike and duplicate but was quantitated at 1.8ug/L in the actual sample which was below the detection unit of 5ug/L.

3. An increase in the required scan time led to an error in the programming of the GC conditions resulting in the elution of xylene in the run immediately following. As a result xylene can not be quantitated as an HSL in these samples. All samples were examined for xylene as an additional. The tentative hit identified as xylene in AB 031 and AB 039 can be directly attributed to carry over of xylene from the standard run immediately before. Xylene was, however, detected in sample AB 030 and quantitated against the nearest internal standard at 14ug/L.

4. An unidentified peak occurred at scan 824 in the matrix spike sample. This peak did not appear in either the sample AB 028 or the matrix spike duplicate and it is not believed to be native to the sample.

GCA

Narrative

Case 3931

Pest/PCB's

1. All samples wre analyzed within the specified contract holding time.

2. Pesticide evaluation standard summary
   (a) Evaluation check for linearity
   on the run date of 4/2/85 the individual standard mix was used to calculated the calibration factor for Evaluation Mix A. A new evaluation standard will be made for future cases.

   On the run dated 3/29/85 both aldrin and p'p-DDT were above the 10% limitset for linearity. None of the samples contained either of these. components and the matrix spike and matrix spike duplicate for these components were calculated using a standards curve.

II. QC SUMMARY

Case No. 796 — Contract Laboratory — CA — Contract No. — 01

SMO TRAFFIC NO.	VOLATILE: TOLUENE-D8 (88-119)	VOLATILE: BFB (85-121)	VOLATILE: 1,2 DICHLORO-ETHANE-D4 (77-120)	SEMI-VOLATILE: NITRO-BENZENE-D5 (41-120)	SEMI-VOLATILE: 2-FLUORO-BIPHENYL (44-119)	SEMI-VOLATILE: TERPHENYL-D14 (33-128)			SEMI-VOLATILE: PHENOL-D5 (15-103)	SEMI-VOLATILE: 2-FLUORO-PHENOL (23-121)	SEMI-VOLATILE: 2,4,6 TRIBROMO-PHENOL (10-130)	PESTICIDE: DIBUTYL-CHLORENDATE** (48-136)
MB1	111	97	102	107	87	86			23	31	70	@
AB028MS	96	95	96	117	95	90			35	37	90	
AB028MSD	97	91	94	115	83	78			35	37	85	
AB025	108	90	114	75	69	70			26	34	81	@
AB026	106	84*	99	102	70	70			21	28	82	@
AB027	103	78*	101	101	70	66			23	31	80	@
AB028	105	85	98	102	72	63			22	29	74	@
AB029	104	80*	102	93	71	65			21	29	83	@
AB030	110* ~~[illegible]~~ cm	82 ~~101~~ cm	104 ~~129~~ cm	102	73	74			20	26	72	103
AB031	95	101	97	82	62	74			23	21	88	@
AB032	95	95	97	77	65	76			23	30	73	@
AB034	92	95	86	91	68	74			23	31	82	118
AB035	93	94	98	93	71	57			20	27	66	@
AB036	93	88	95	89	61	61			21	31	87	@
AB037	92	85	88	91	71	67			20	28	76	58.3
AB038	90	94	86	109	73	66			20	28	64	@
AB039	98	88	90	82	68	99			23	30	77	@
AB033	93	96	97									
AB030RE	99	102	95									
MB2	110	85	100									
MB3	97	100	92									
AB030MS												@
AB030MSD												

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 3 out of 64; outside of QC limits

Semi-Volatiles: 0 out of ~~96~~ 102 EM; outside of QC limits

Pesticides: ____ out of ____; outside of QC limits

Comments: @ Sample numbers AB025, AB026, AB027, AB028, AB029, AB031, AB032, AB035, AB036, AB038, and AB039, had a large peak at 33 min which obscured the dibutylchlorendate.

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. 3969 **Contractor** GCA **Contract No.** 68-01-6767

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY
VOA SMO SAMPLE NO. AB028	1,1-Dichloroethene	50	0	9.6	19*	9.4	20*	5.1	14	61-145
	Trichloroethene	↓	↓	52	104	56	112	7.4	14	71-120
	Chlorobenzene			51	102	56	112	9.3	13	75-130
	Toluene			48	96	64	108	13	13	76-125
	Benzene			46	92	53	106	14*	11	76-127
B/N SMO SAMPLE NO. AB028	1,2,4-Trichlorobenzene	50	-0-	26	52	26	52	0	28	39-98
	Acenaphthene	↓	-0-	25	50	23	46	8	31	46-118
	2,4 Dinitrotoluene		-0-	30	60	29	58	3	38	24-96
	Di-n-Butylphthalate		-0-	7	14	9	18	25	40	11-117
	Pyrene		-0-	24	48	24	48	0	31	26-127
	N-Nitroso-Di-n-Propylamine		-0-	15	30*	15	30*	0	38	41-116
	1,4-Dichlorobenzene	↓	-0-	23	46	21	42	9	28	36-97
ACID SMO SAMPLE NO. AB028	Pentachlorophenol	100	-0-	50	50	47	47	6	50	9-103
	Phenol	↓	-0-	20	20	18	18	11	42	12-89
	2-Chlorophenol		-0-	30	30	29	29	3	40	27-123
	4-Chloro-3-Methylphenol		-0-	40	40	38	38	5	42	23-97
	4-Nitrophenol	↓	-0-	45	45	47	47	4	50	10-80
PEST SMO SAMPLE NO. AB030	Lindane	0.200	0.05U	0.128	64.0	0.139	69.5	8.2	15	56-123
	Heptachlor	0.200	0.05U	0.130	65.0	0.136	68.0	4.5	20	40-131
	Aldrin	0.200	0.05U	0.155	77.5	0.154	79.5	2.5	22	40-120
	Dieldrin	0.500	0.10U	0.390	78.0	0.399	79.8	1.1	18	52-126
	Endrin	0.500	0.10U	0.540	108	0.568	114	5.4	21	56-121
	4,4'-DDT	0.500	0.10U	0.552	110	0.566	113	2.7	27	38-127

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs 1 out of 5; outside QC limits
B/N 0 out of 7; outside QC limits
ACID 0 out of 5; outside QC limits
PEST 0 out of 6; outside QC limits

RECOVERY: VOAs 2 out of 10; outside QC limits
B/N 2 out of 14; outside QC limits
ACID 0 out of 10; outside QC limits
PEST 0 out of 12; outside QC limits

Comments:

REAGENT BLANK SUMMARY

Case No. 3969 Contractor GCA Contract No. 68-01-6767

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL,TIC OR UNKNOWN)	CONC.	UNITS	CRDL
V2715	3/4/85	VOA	Water	L	Finnigan	75-09-2	Methylene Chloride	8.2	ug/l	5
V2736	3/5/85	↓	↓	↓	↓	↓	Methylene Chloride	7.3	↓	↓
V2754	3/6/85	↓	↓	↓	↓	CM/A	~~Methylene Chloride Compounds Identified~~	8.5	↓	↓

Comments:

FORM IV

REAGENT BLANK SUMMARY

Case No. 3969 Contractor CCA Contract No. 68-01-6767

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL,TIC OR UNKNOWN)	CONC.	UNITS	CRDL
14756	3/25/85	BN/A	water	L	HP5970SA	117-81-7	Bis(2-Ethylhexyl) Phthalate	24	ug/L	10

Comments:

FORM IV

REAGENT BLANK SUMMARY

JMK 4/3/85

Case No. 3969 Contractor GCA Contract No. 68-01-6767 ~~3-705-050~~ PN

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INSTR. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
Method Blank	3/30/85		Water	low	HP5710	—	No compounds found			

Comments:

TCS

Bromofluorobenzene (BFB)

Case No. 3969 Contractor GCA Contract No. 68-01-6767

Instrument ID Finnigan Date 3/4/85 Time 6:41

Lab ID V2715 Data Release Authorized By: [illegible] F. Marques

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	31.6	
75	30.0 - 60.0% of the base peak	56.3	
95	Base peak, 100% relative abundance	100	
96	5.0 - 9.0% of the base peak	8.1	
173	Less than 1.0% of the base peak	-0-	
174	Greater than 50.0% of the base peak	50.4	
175	5.0 - 9.0% of mass 174	3.54	(7.0)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	49.8	(99)[1]
177	5.0 - 9.0% of mass 176	4.17	(8.4)[2]

[1] Value in parenthesis is % mass 174.
[2] Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
~~MB~~ MB1	~~HGnK~~	3/4/85	6:41
~~AB 025~~	~~43229~~ CM		~~12:24~~ CM
AB 026	43230		18:26
AB 027	43231		19:09
AB 028	43232		19:52
AB 029	43233		20:35
~~AB 030~~	~~43234~~ CM		
~~AB~~			

4/84

FORM V

II 6

Bromofluorobenzene (BFB)

Case No. 3969 Contractor GCA Contract No. 68-01-6767

Instrument ID Finnigan Date 3/5/85 Time 17:40

Lab ID V2746 Data Release Authorized By: E Marquis

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	33	
75	30.0 - 60.0% of the base peak	58	
95	Base peak, 100% relative abundance	100	
96	5.0 - 9.0% of the base peak	6.2	
173	Less than 1.0% of the base peak	-0-	
174	Greater than 50.0% of the base peak	50	
175	5.0 - 9.0% of mass 174	4.7	(9.0)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	47	(94)[1]
177	5.0 - 9.0% of mass 176	4.2	(9.0)[2]

[1]Value in parenthesis is % mass 174.
[2]Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
MB2	Hank	3/5/85	9:51
AB 025	43229		12:27
AB 028 MS	43232 MS		14:00
AB 028 MSD	43232 MSD		14:43
AB 031	43235		16:56
AB 032	43236		17:40
AB 033	43237		18:23
AB 034	43238		19:07
AB 035	43239		19:50
AB 036	43240		20:32
AB 037	43241		21:15
AB 038	43242		21:58
AB 030	43234		13:11

4/84

FORM V

II-7

Case No. 3969 Contractor GCA Contract No. 68-01-6767

Instrument ID Finnigan Date 3/6/85 Time 10:28

Lab ID V2753 Data Release Authorized By: F Macguire

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	31.6
75	30.0 - 60.0% of the base peak	54.6
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	9.0
173	Less than 1.0% of the base peak	-0-
174	Greater than 50.0% of the base peak	50.6
175	5.0 - 9.0% of mass 174	4.13 (8.2)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	49.6 (98)[1]
177	5.0 - 9.0% of mass 176	4.1 (8.3)[2]

[1]Value in parenthesis is % mass 174.
[2]Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
MB3	blank	3/6/85	10:53
AB 039	43243		12:28
AB 030185	43244		13:23
~~AB 030~~	~~43234~~ CM		14:31 CM

4/84

FORM V

II 8

Case No. 3464 Contractor GCA Contract No. 68-01-6765

Instrument ID HP5985A Date 3/25/85 Time 14:15

Lab ID 14741 Data Release Authorized By: F. Marquis

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.1
68	less than 2.0% of mass 69	-0- (-0-)[1]
69	mass 69 relative abundance	66.3
70	less than 2.0% of mass 69	0.4 (0.6)[1]
127	40.0 - 60.0% of mass 198	58.3
197	less than 1.0% of mass 198	-0-
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.70
275	10.0 - 30.0% of mass 198	17.5
365	greater than 1.00% of mass 198	1.68
441	present, but less than mass 443	0
442	greater than 40.0% of mass 198	46.0
443	17.0 - 23.0% of mass 442	8.35 (18)[2]

[1]Value in parenthesis is % mass 69.
[2]Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
MB1		3/25/85	15:00
AB028MS			15:45
AB028MSD			16:30
AB025			17:15
AB026			18:00
AB027			19:45
AB028			19:30
AB029			20:15
AB030			21:00
AB031			21:45
AB032			22:30
AB034			23:15
AB035			24:00
AB036			24:45
AB037			1:00

III. SAMPLE DATA PACKET

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, definition of such flags must be explicit .

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

K - If the mass spectral data indicate the presence of a compound that meets the identification criteria but the quantitative result is less than specified detection limit but greater than zero, report the detection limit as K (e.g., 10K). The footnote should read: K-Actual value, within the limitations of this method, is less than the value given.

FS - This flag applies to analysis performed by Fused Silica Capillary Column.

J - Indicates an estimated value which is used when estimating a concentration for tentatively identified compounds (e.g., 1200J). The footnote should read: J-Estimated value.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

** - This flag applies to pesticides parameters where the identification has been performed using two column confirmation (as specified in Method 608) but the level is too low for verification of the compound by mass spectrometry.

CX - This flag is used to indicate those compounds which were concentrated by a factor of 10 times.

Form II. (continued)

Revised 12/83

ORGANICS TRAFFIC REPORT

1 AB025

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:
GCA
213 Burlington Rd
Bedford, MA 01730

Attn: Gary Hunt

Transfer
Ship To:

⑤ Regional Office: I

Sampling Personnel:
John Williams
(Name)
(617) 747-5151
(Phone)

Sampling Date:
2/28/85 2/28/85
(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	80 oz
Water (VOA)	2	40 ml
Soil/Sediment (Extractable)		
Soil/Sediment (VOA)		
Other		

⑪ Analysis Lab:
Rec'd by: M. Lemm
Date Rec'd: 3/1/85
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
No Sample tags

⑦ Shipping Information

Hand-Carried
Name of Carrier

Date Shipped:

Airbill Number:

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MAA023

LAB FILE COPY

III 2

AB-025

Organics Analysis Data Sheet
(Page 1)

...ratory Name: GCA	Case No. 3969
Sample ID No: 43229	QC Report No: 3969
...ple Matrix: Water	Contract No: 68-01-6767
... Release Authorized By:	Date Sample Received: 3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/5/85

Conc/Dil Factor: 1 pH Na

Percent Moisture: NA

Percent Moisture (Decanted): NA

ETmm 5/2/85

R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
...-87-3	Chloromethane	10u	79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
...-83-9	Bromomethane	10u	78-87-5	1, 2-Dichloropropane	5u
...-01-4	Vinyl Chloride	10u	10061-02-6	Trans-1, 3-Dichloropropene	5u
...-00-3	Chloroethane	10u	79-01-6	Trichloroethene	5u
...-09-2	Methylene Chloride	8.5R	124-48-1	Dibromochloromethane	5u
...-64-1	Acetone	46	79-00-5	1, 1, 2-Trichloroethane	5u
...-15-0	Carbon Disulfide	5u	71-43-2	Benzene	5u
...-4	1, 1-Dichloroethene	5u	10061-01-5	cis-1, 3-Dichloropropene	5u
...-34-3	1, 1-Dichloroethane	5u	110-75-8	2-Chloroethylvinylether	10u
...56-60-5	Trans-1, 2-Dichloroethene	5u	75-25-2	Bromoform	5u
...7-66-3	Chloroform	5u	591-78-6	2-Hexanone	10u
...07-06-2	1, 2-Dichloroethane	5u	108-10-1	4-Methyl-2-Pentanone	10u
...8-93-3	2-Butanone	10u	127-18-4	Tetrachloroethene	5u
...-55-6	1, 1, 1-Trichloroethane	5u	108-88-3	Toluene	5u
...-23-5	Carbon Tetrachloride	5u	108-90-7	Chlorobenzene	5u
...08-05-4	Vinyl Acetate	10u	100-41-4	Ethylbenzene	5u
...-27-4	Bromodichloromethane	5u	100-42-5	Styrene	5u
				Total Xylenes	* ~~5u~~ ca

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

* See narrative

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets [illegible]

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

~~III~~ 4

36

Environmental Protection Agency, CLP Sample Management Office,
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB025

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3/15/85
Date Analyzed: 3/25/85
Conc/Dil Factor: 1.0 l → 1.0 ml

ET mm 5/2/85 R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		(ug/l) or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	1.2 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB025

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 3/30/85

Conc/Dil Factor: 1

ET mm 5/15/85

NA = Not Analyzed

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05U
319-85-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4,4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4,4'-DDD	0.10U
7421-93-4	Endrin Aldehyde	0.10U
1031-07-8	Endosulfan Sulfate	0.25U
50-29-3	4,4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor-1016	0.50U
11104-28-2	Aroclor-1221	0.50U
11141-16-5	Aroclor-1232	0.50U
53469-21-9	Aroclor-1242	0.50U
12672-29-6	Aroclor-1248	0.50U
11097-69-1	Aroclor-1254	1.0U
11096-82-5	Aroclor-1260	1.0U

JH Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

Environmental Protection Agency. CLP Sample Management Office.
P.O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 025

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Compounds found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

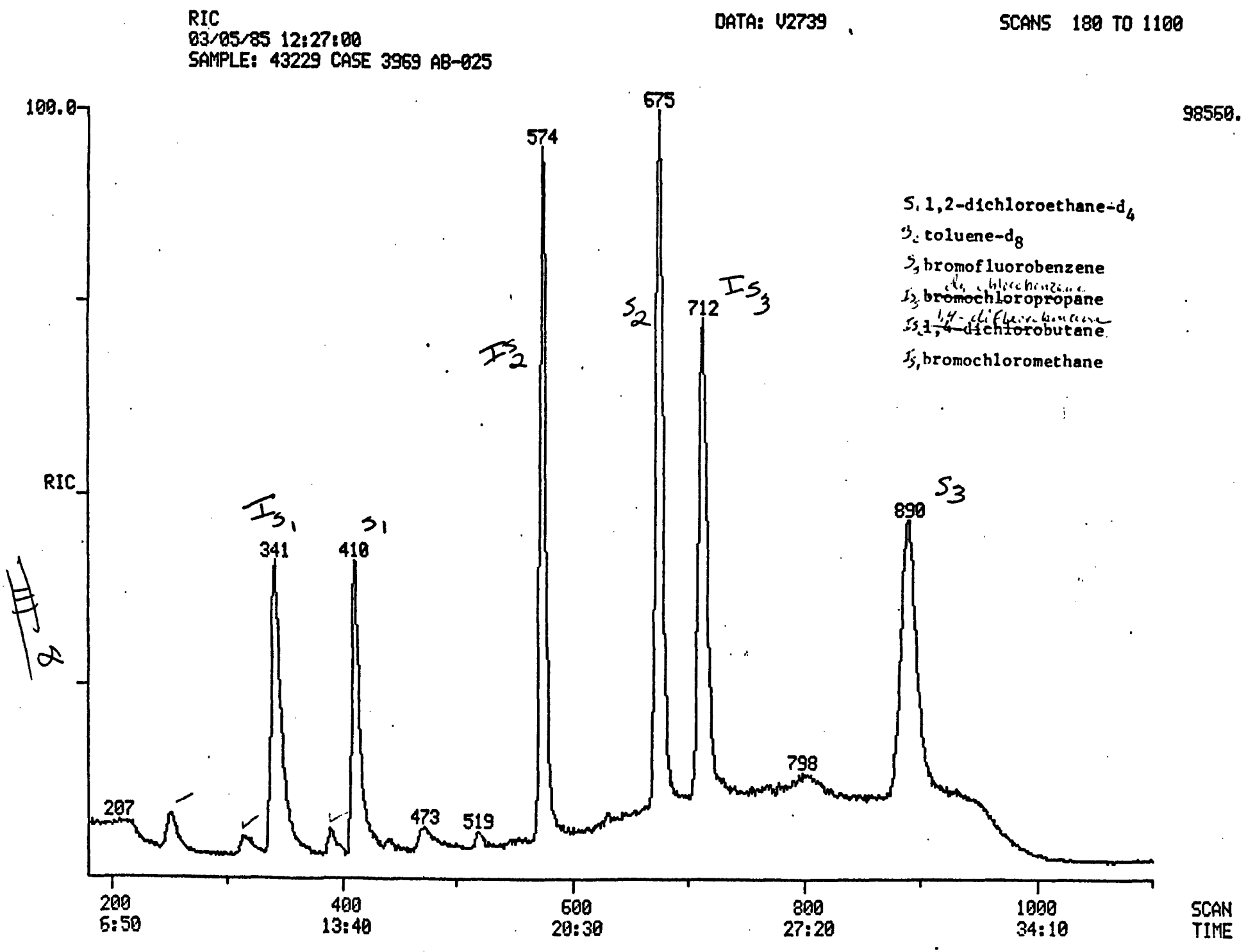
III 6

Sample Number
AB 005

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Unknown	B,N/A	26.0	154 J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				


RIC
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025
DATA: V2739
SCANS 180 TO 1100
100.0
98550.
RIC
675
574
712
341
410
890
798
207
473
519
S. 1,2-dichloroethane-d4
S2 toluene-d8
S3 bromofluorobenzene
IS3 bromochloropropane
IS1 1,4-dichlorobutane
IS1 bromochloromethane
200
6:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

QUANTITATION REPORT FILE: M2

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

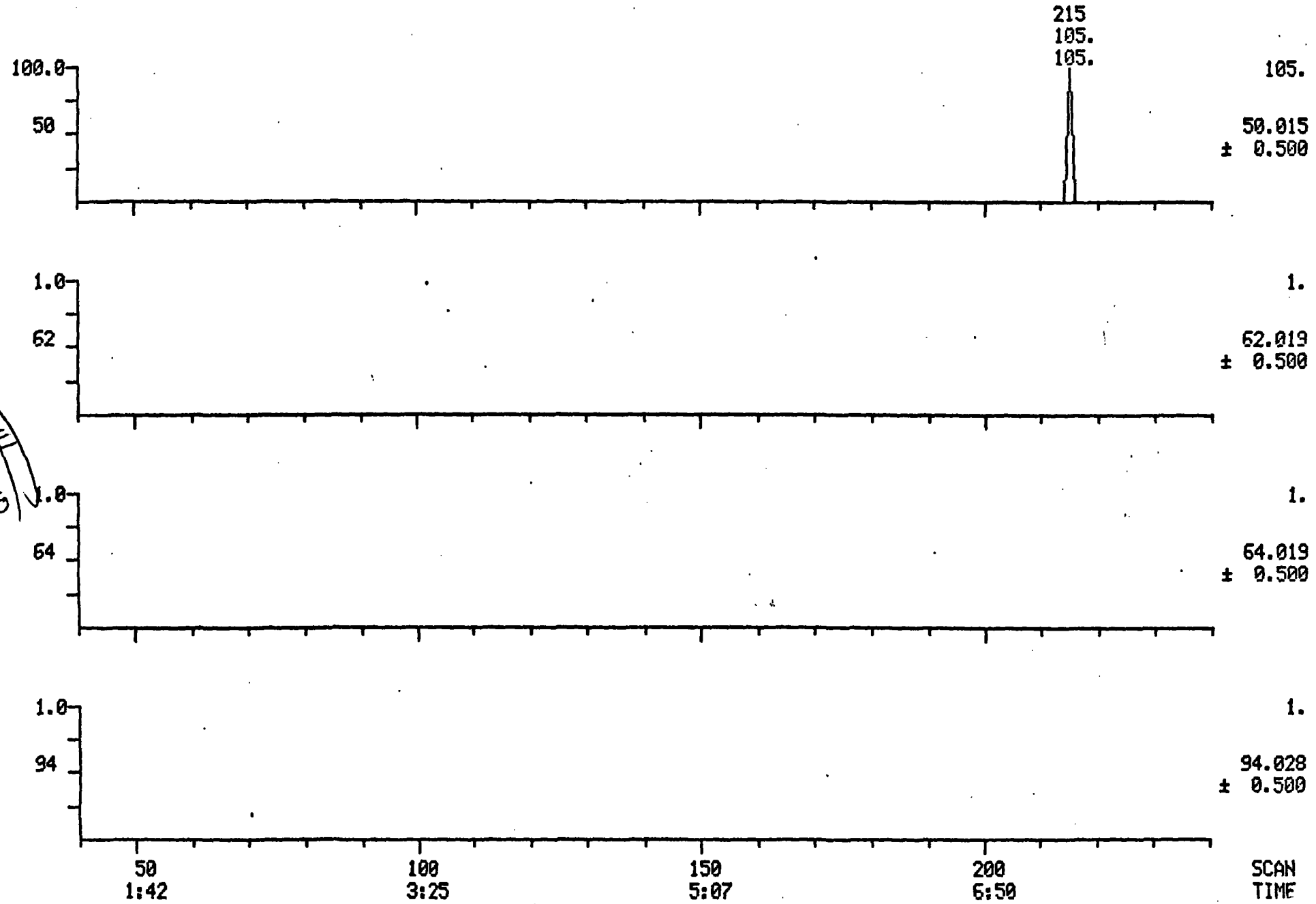
NO	NAME
1	BROMOCHLOROMETHANE(I. S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1, 1-DICHLOROETHENE
10	1, 1-DICHLOROETHANE
11	TRANS 1, 2-DICHLOROETHENE
12	CHLOROFORM
13	1, 2-DICHLOROETHANE
14	D4-1, 2-DICHLOROETHANE
15	1, 1, 1-TRICHLOROETHANE
16	1, 4-DIFLUROBENZENE(I. S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1, 2-DICHLOROPROPANE
22	TRANS 1, 3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1, 1, 2-TRICHLOROETHANE
26	BENZENE
27	CIS-1, 3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I. S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1, 1, 2, 2, TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

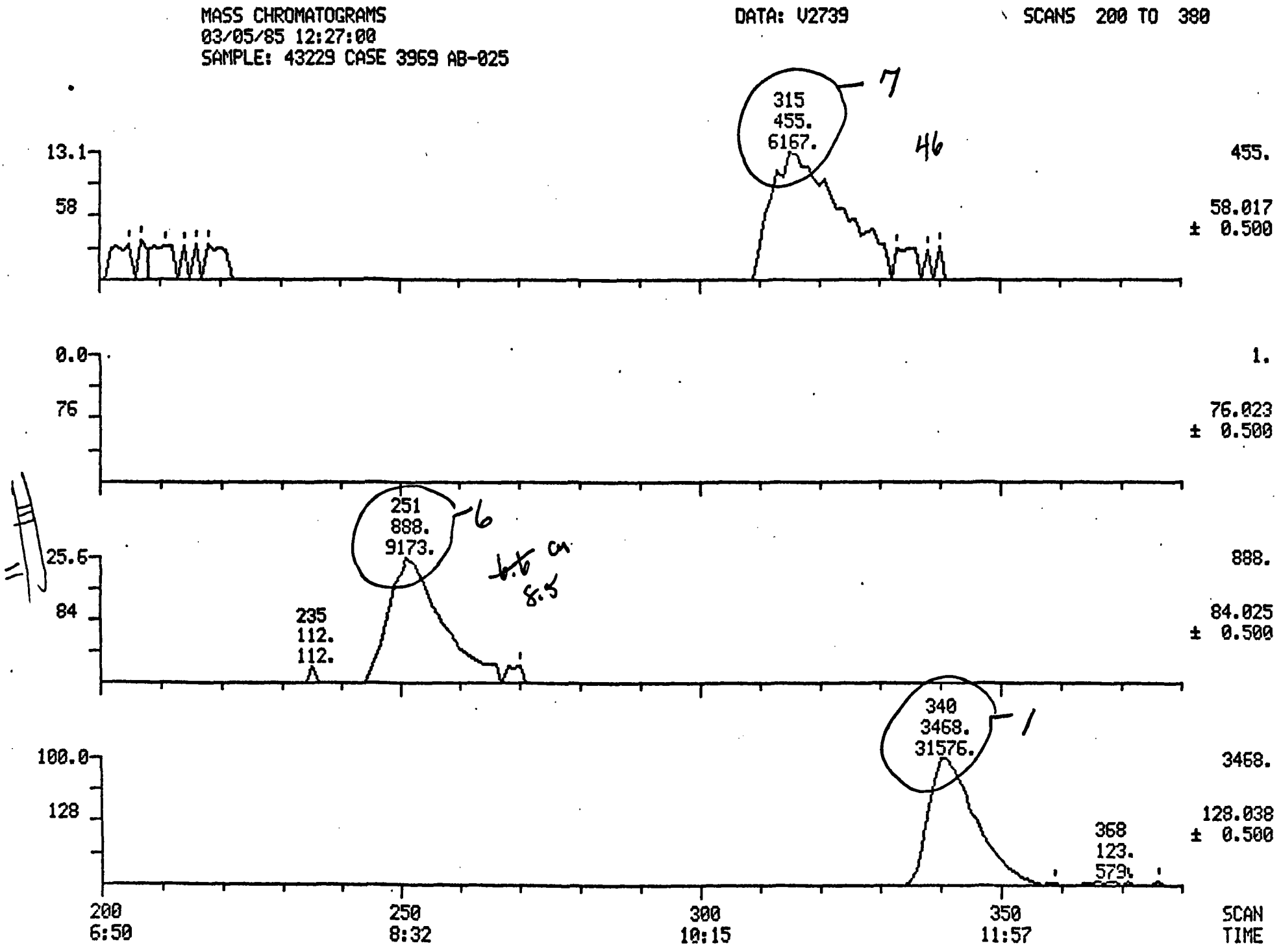
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	128	340	11:37	1	1.000	A BB	29880.	50.000	UG/L	2.38
2	50	64	2:11	1	0.188	A BB	32858.	50.000	UG/L	2.38
3	62	145	4:57	1	0.426	A BB	36722.	50.000	UG/L	2.38
4	94	111	3:48	1	0.326	A BB	35408.	50.000	UG/L	2.38
5	64	187	6:23	1	0.550	A BB	26953.	50.000	UG/L	2.38
6	84	249	8:30	1	0.732	A BB	66871.	50.000	UG/L	2.38
7	58	459	15:41	1	1.350	A BB	24325.	50.000	UG/L	2.38
8	76	305	10:25	1	0.897	A BB	106137.	50.000	UG/L	2.38
9	96	333	11:23	1	0.979	A BV	44879.	50.000	UG/L	2.38
10	63	367	12:32	1	1.079	A BV	119635.	50.000	UG/L	2.38

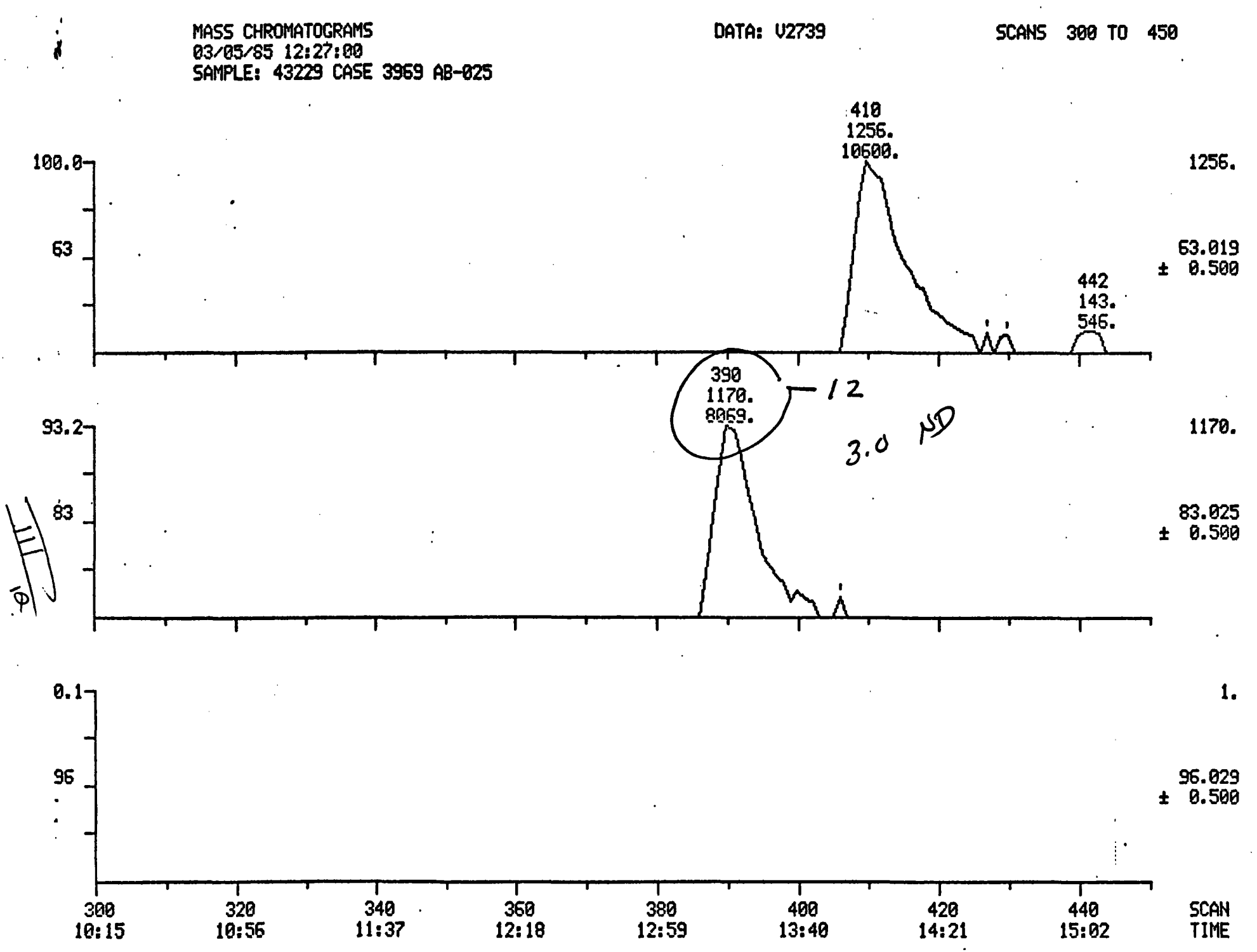
MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025

DATA: V2739

SCANS 40 TO 240



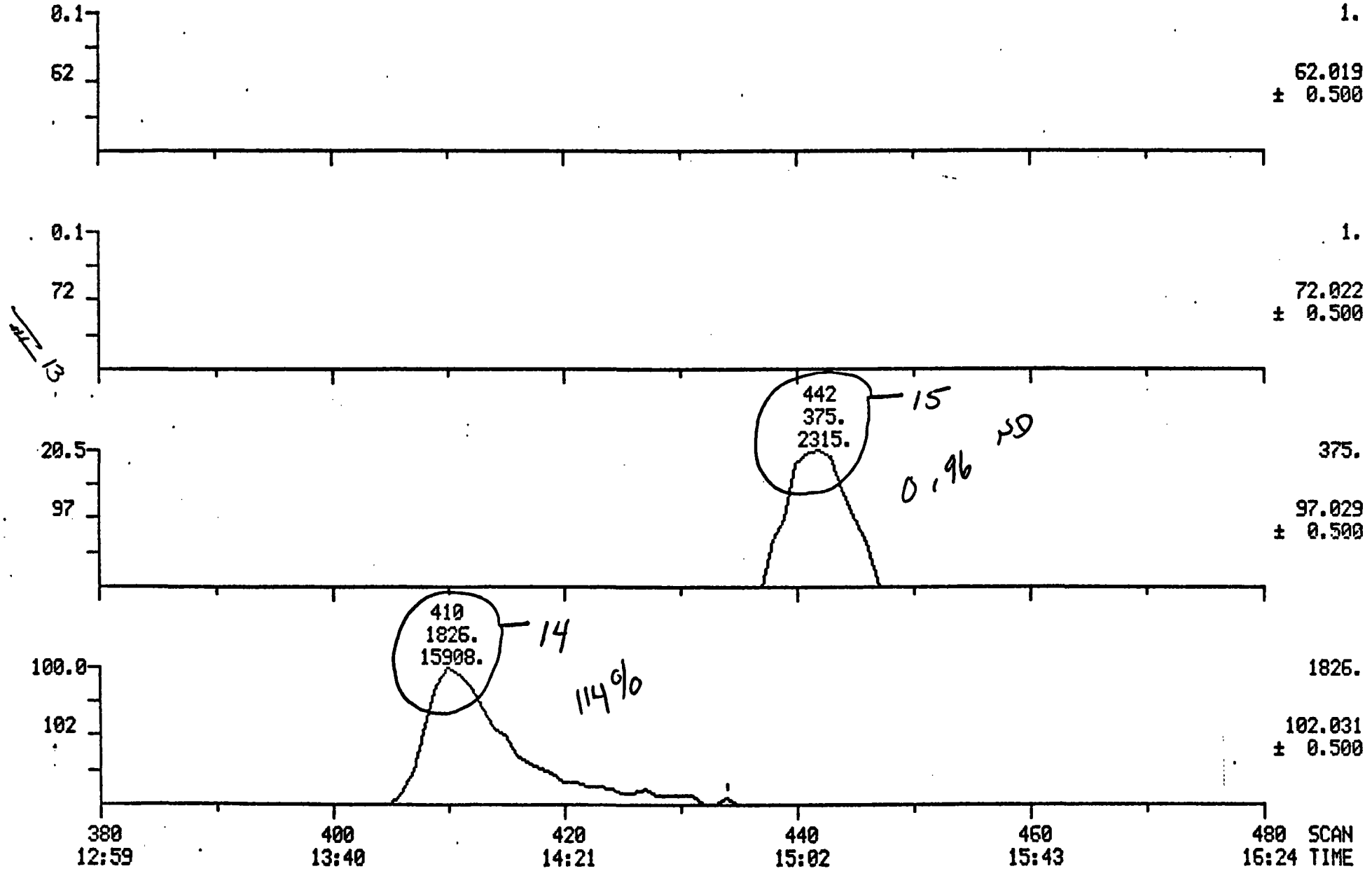

MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025
DATA: V2739
SCANS 200 TO 380
315
455.
6167.
7
46
13.1
58
455.
58.017
± 0.500
0.0
76
1.
76.023
± 0.500
251
888.
9173.
6
8.5
25.6
84
235
112.
112.
888.
84.025
± 0.500
340
3468.
31576.
1
100.0
128
3468.
128.038
± 0.500
368
123.
200
6:50
250
8:32
300
10:15
350
11:57
SCAN
TIME


MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025
DATA: V2739
SCANS 300 TO 450
410
1256.
10600.
442
143.
546.
390
1170.
8069.
100.0
63
93.2
83
0.1
96
1256.
63.019
± 0.500
1170.
83.025
± 0.500
1.
96.029
± 0.500
300
10:15
320
10:56
340
11:37
360
12:18
380
12:59
400
13:40
420
14:21
440
15:02
SCAN
TIME
1/2
3.0 NS

MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025

DATA: V2739

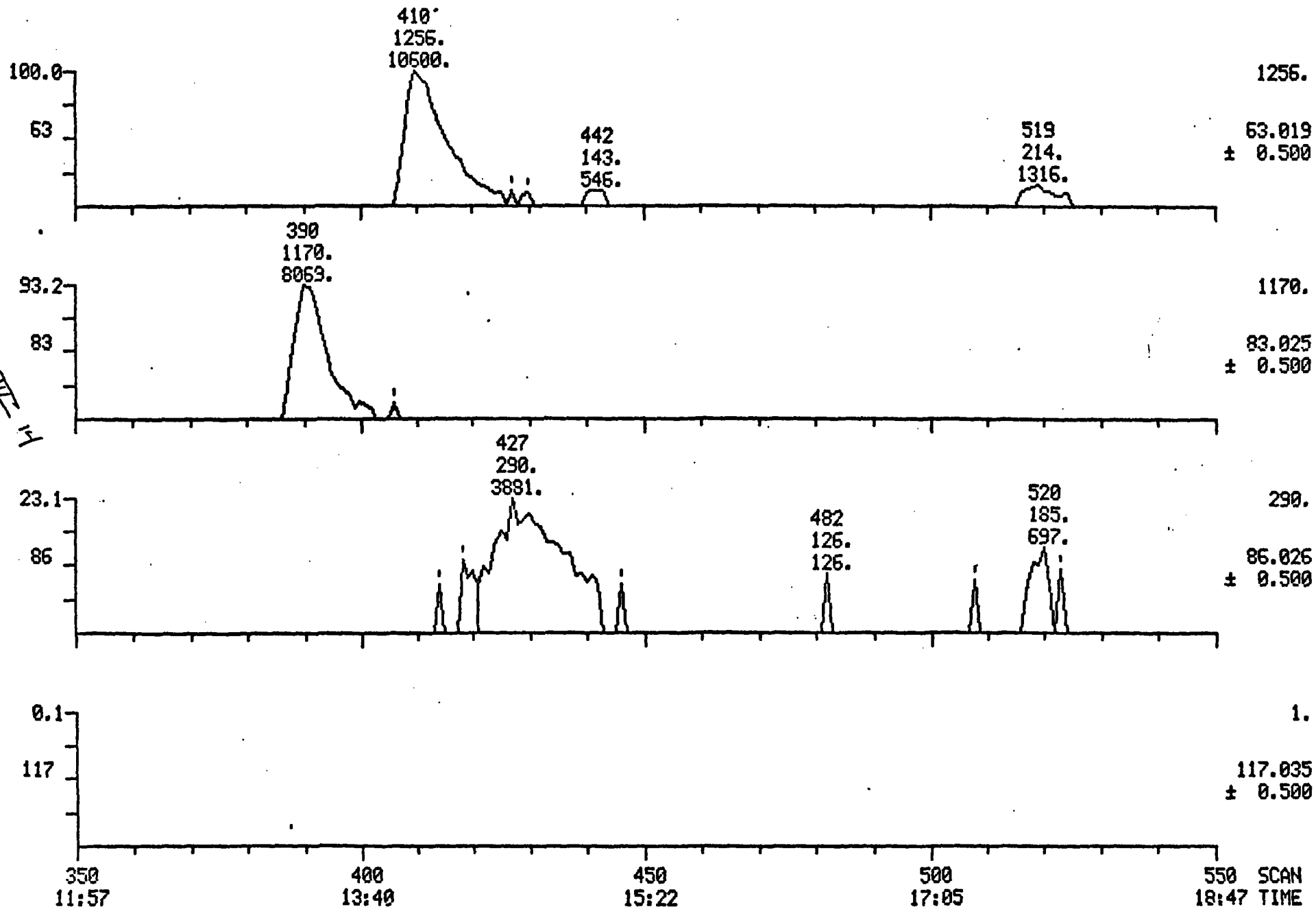
SCANS 380 TO 480



MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025

DATA: V2739

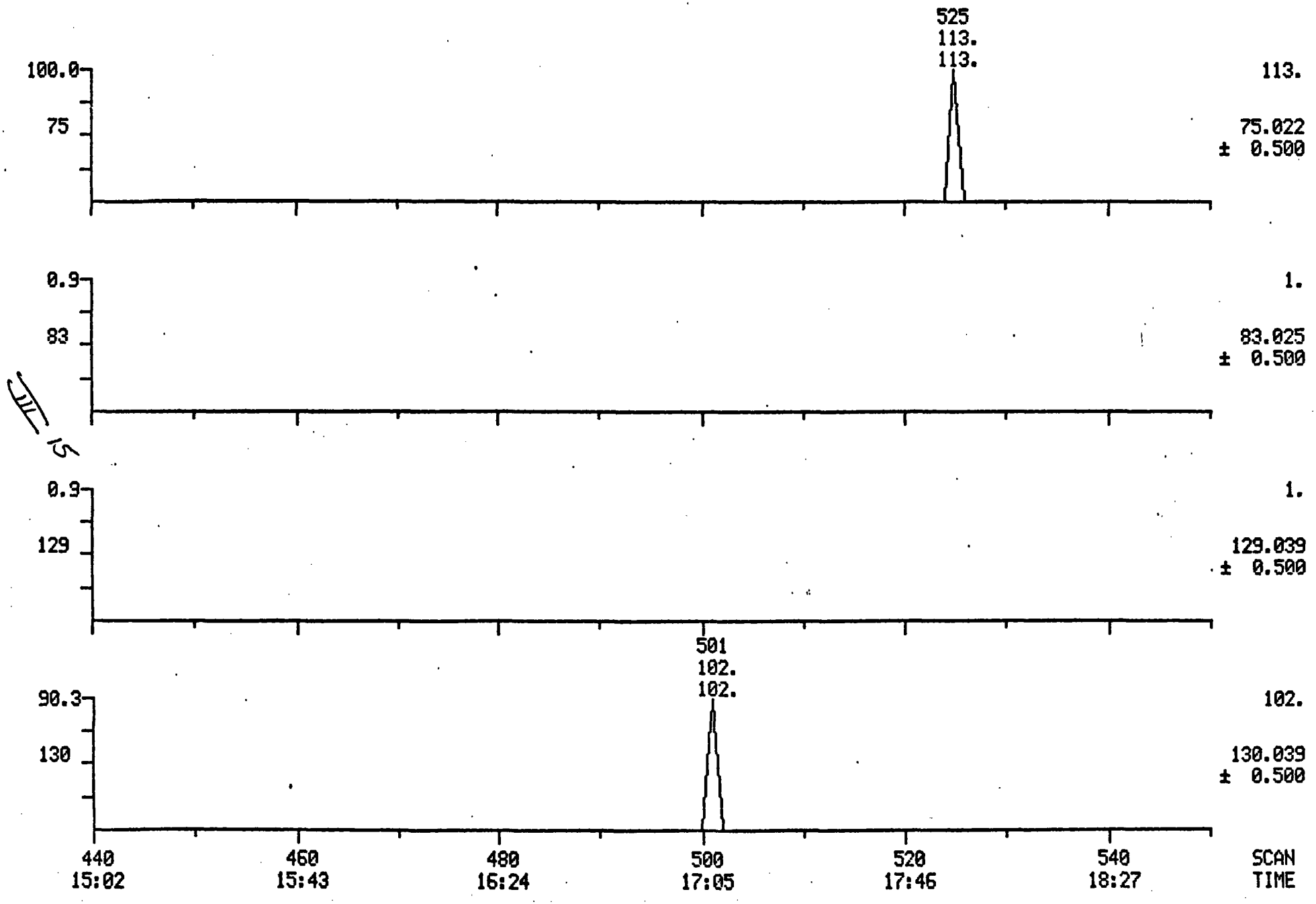
SCANS 350 TO 550

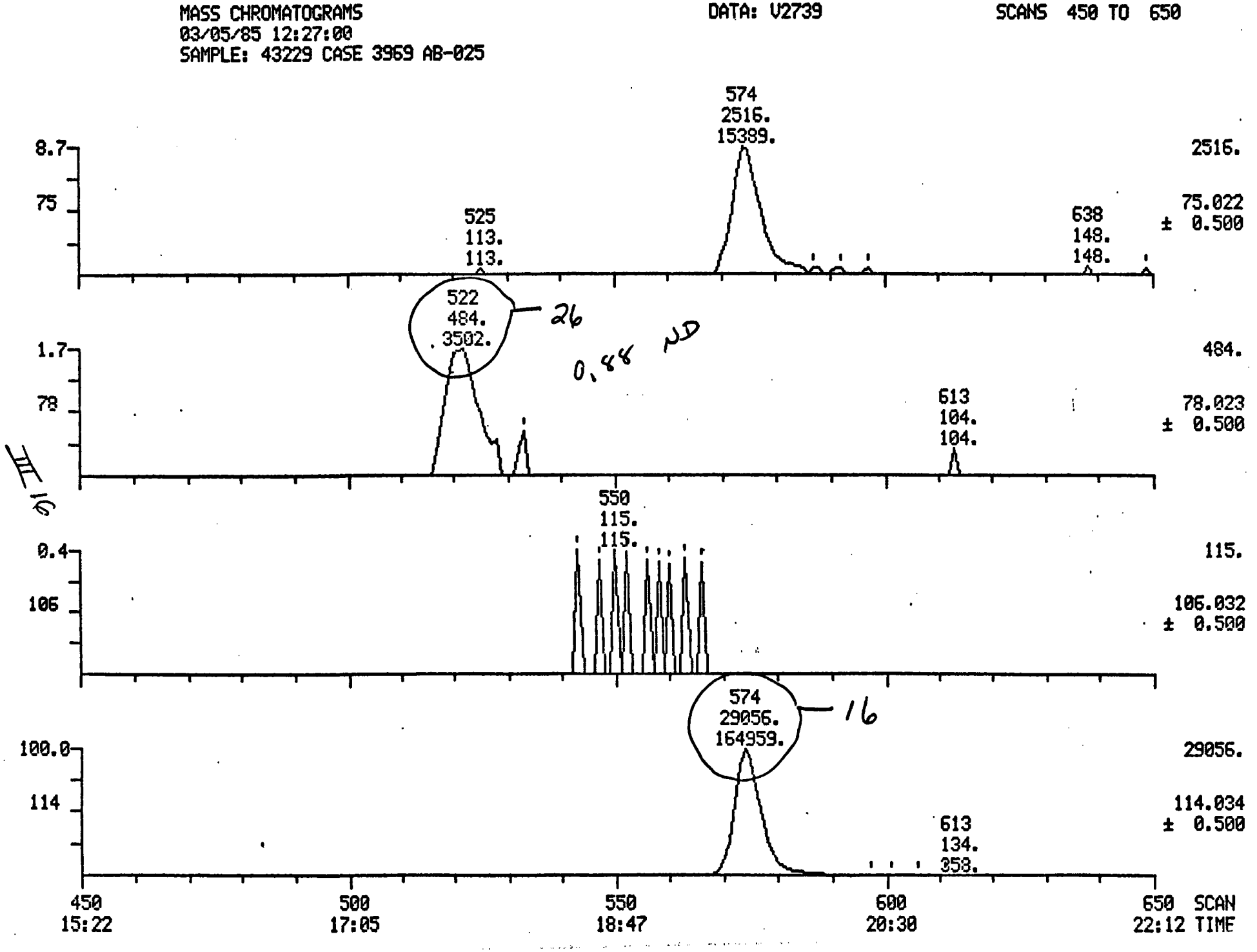


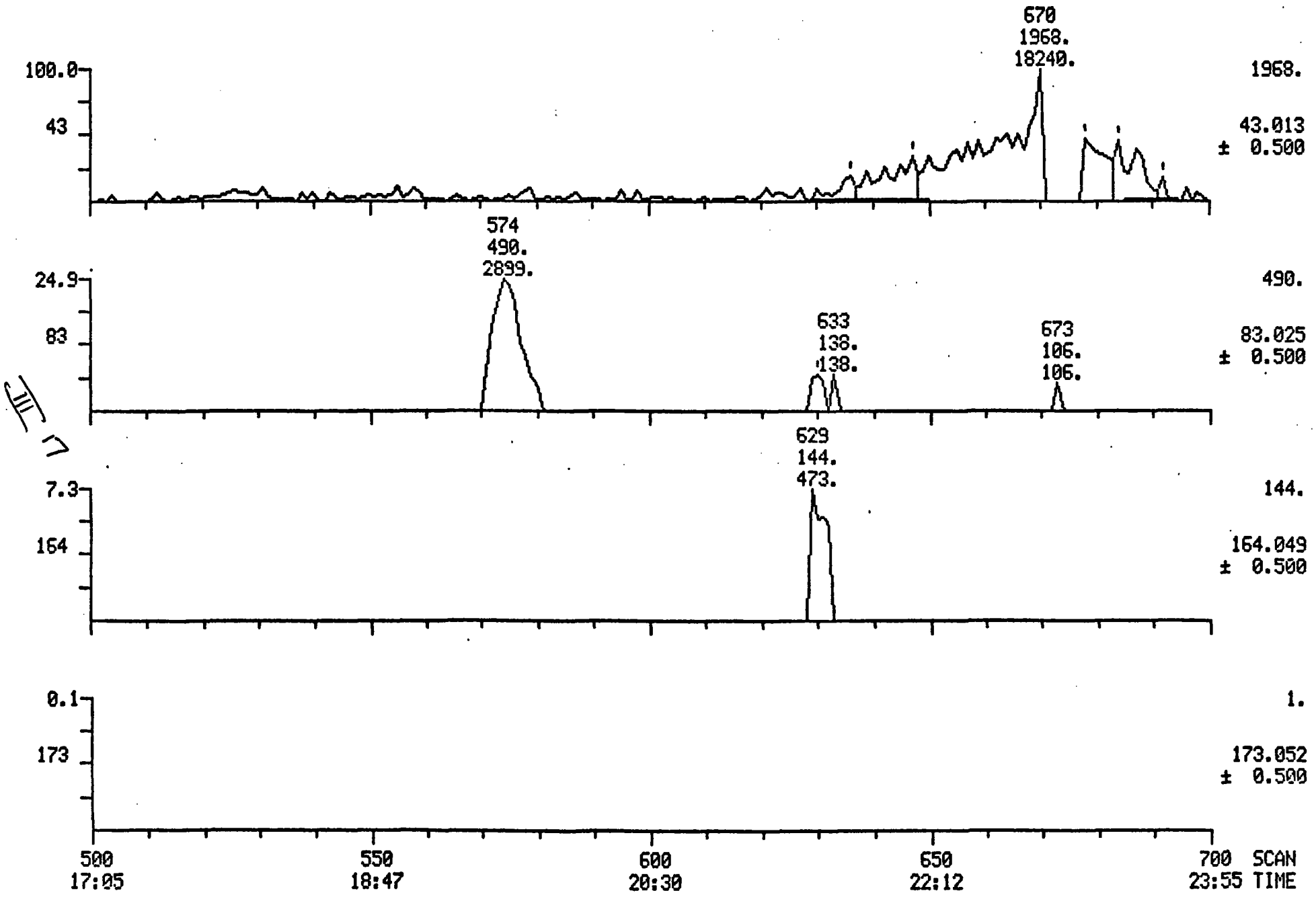
MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025

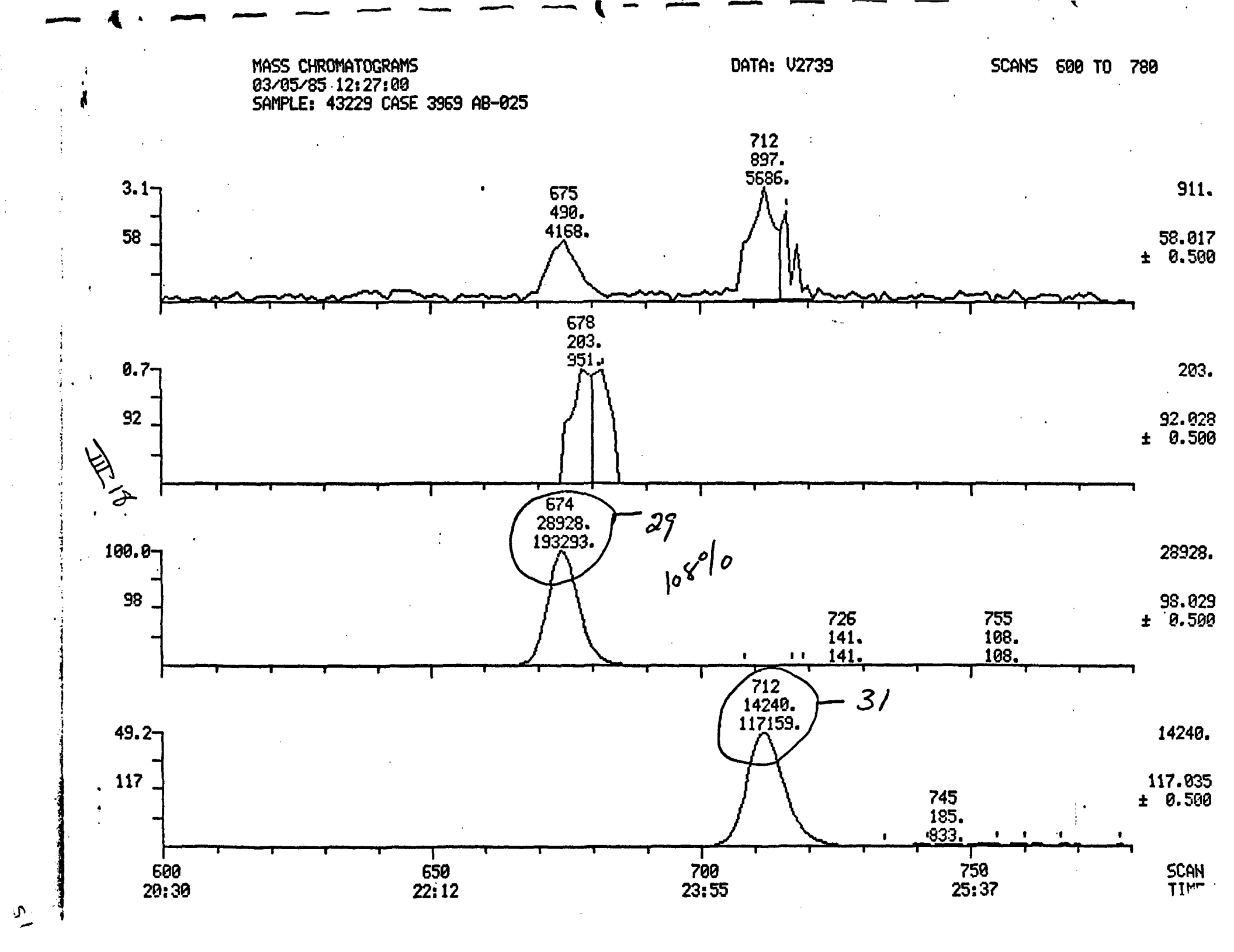
DATA: V2739

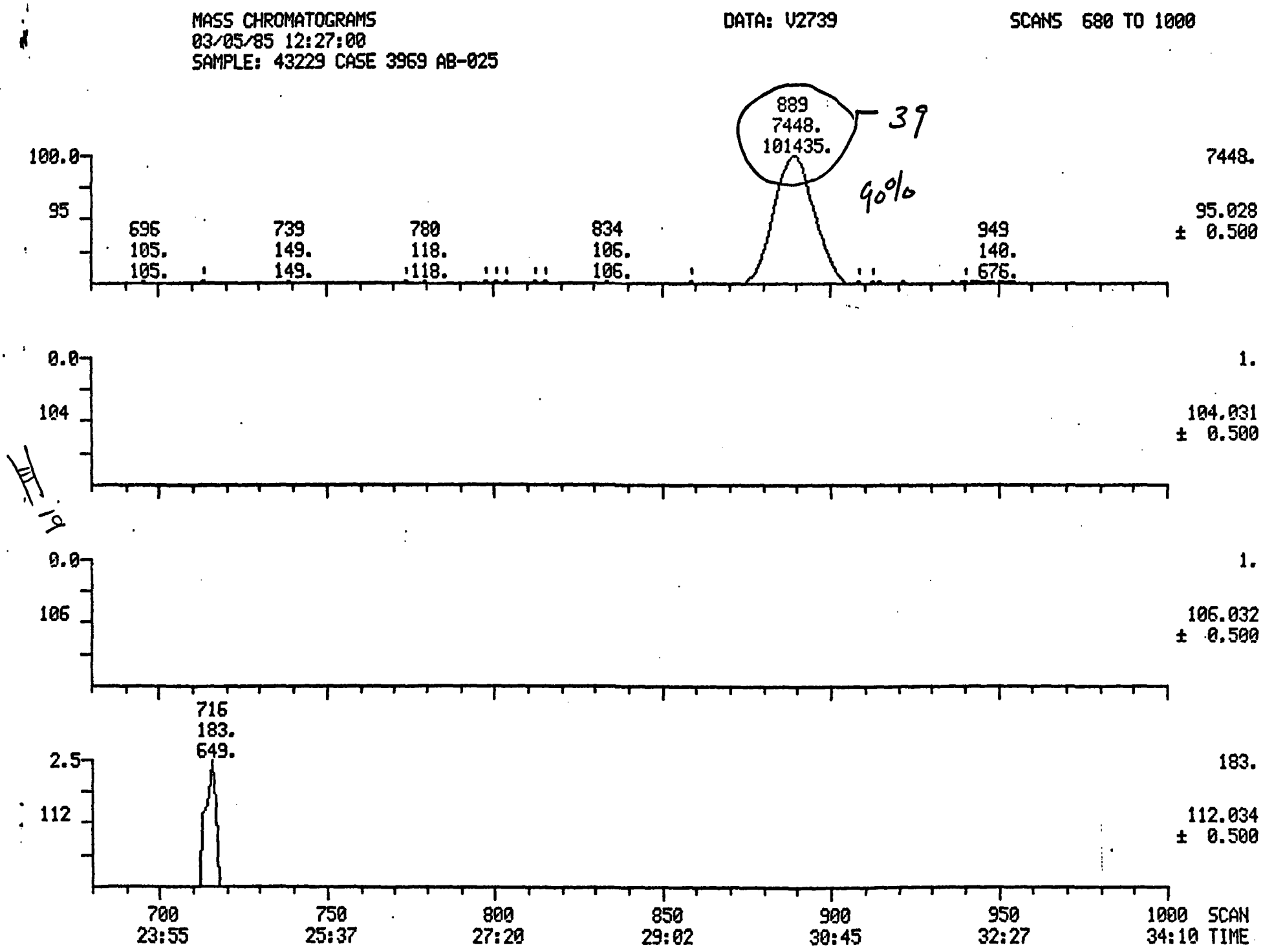
SCANS 440 TO 550

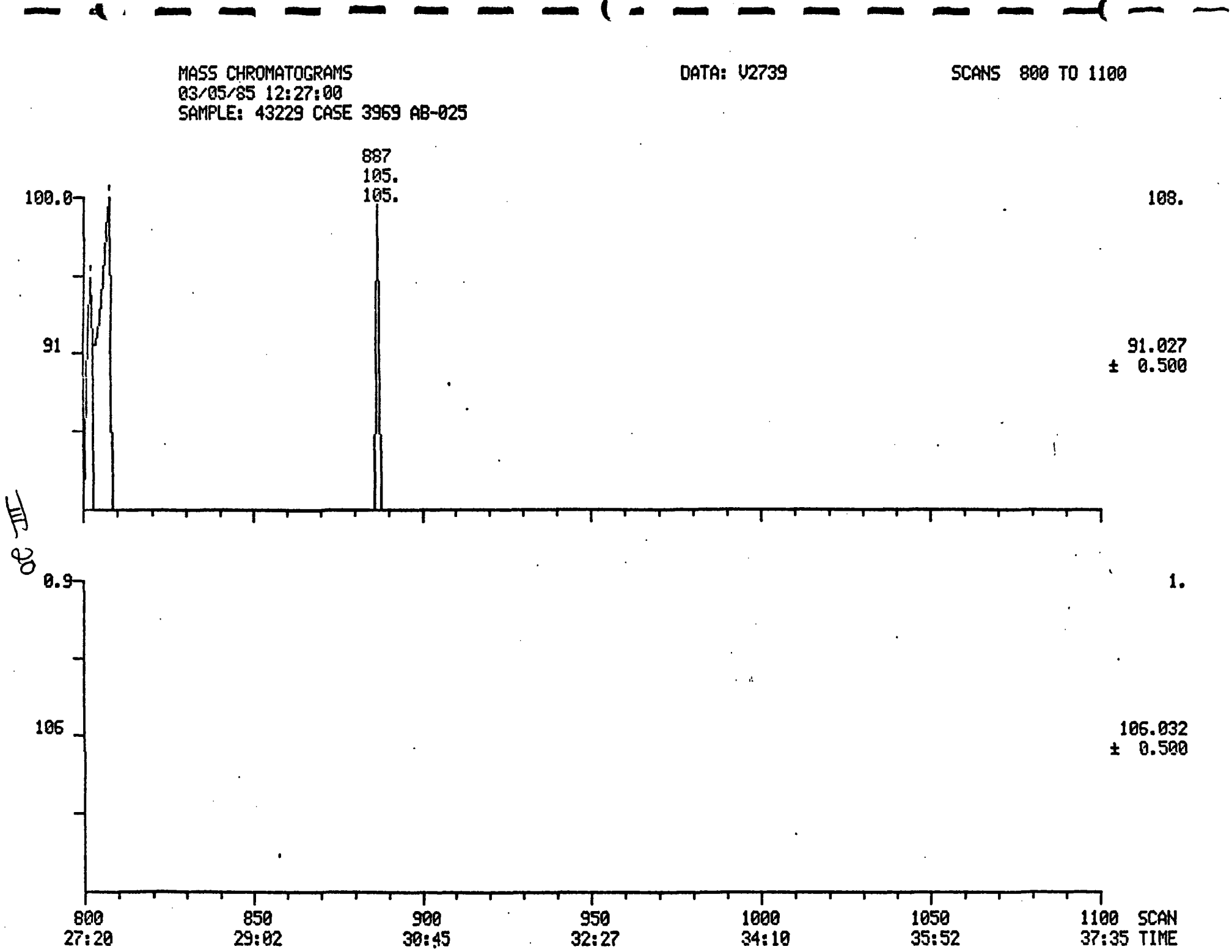



MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025
DATA: V2739
SCANS 450 TO 650
574
2516.
15389.
8.7
75
525
113.
113.
638
148.
148.
2516.
75.022
± 0.500
522
484.
3502.
26
0.88 ND
1.7
78
613
104.
104.
484.
78.023
± 0.500
550
115.
115.
0.4
106
115.
106.032
± 0.500
574
29056.
164959.
16
100.0
114
613
134.
358.
29056.
114.034
± 0.500
450
15:22
500
17:05
550
18:47
600
20:30
650 SCAN
22:12 TIME


MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025
DATA: V2739
SCANS 500 TO 700
670
1968.
18240.
100.0
43
1968.
43.013
± 0.500
574
490.
2899.
633
138.
138.
673
106.
106.
24.9
83
490.
83.025
± 0.500
629
144.
473.
7.3
164
144.
164.049
± 0.500
0.1
173
1.
173.052
± 0.500
500
17:05
550
18:47
600
20:30
650
22:12
700 SCAN
23:55 TIME


MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025
DATA: V2739
SCANS 600 TO 780
712
897.
5686.
675
490.
4168.
3.1
58
911.
58.017
± 0.500
678
203.
951.
0.7
92
203.
92.028
± 0.500
674
28928.
193293.
29
108%
100.0
98
28928.
98.029
± 0.500
726
141.
141.
755
108.
108.
712
14240.
117159.
31
49.2
117
14240.
117.035
± 0.500
745
185.
833.
600
20:30
650
22:12
700
23:55
750
25:37
SCAN
TIME

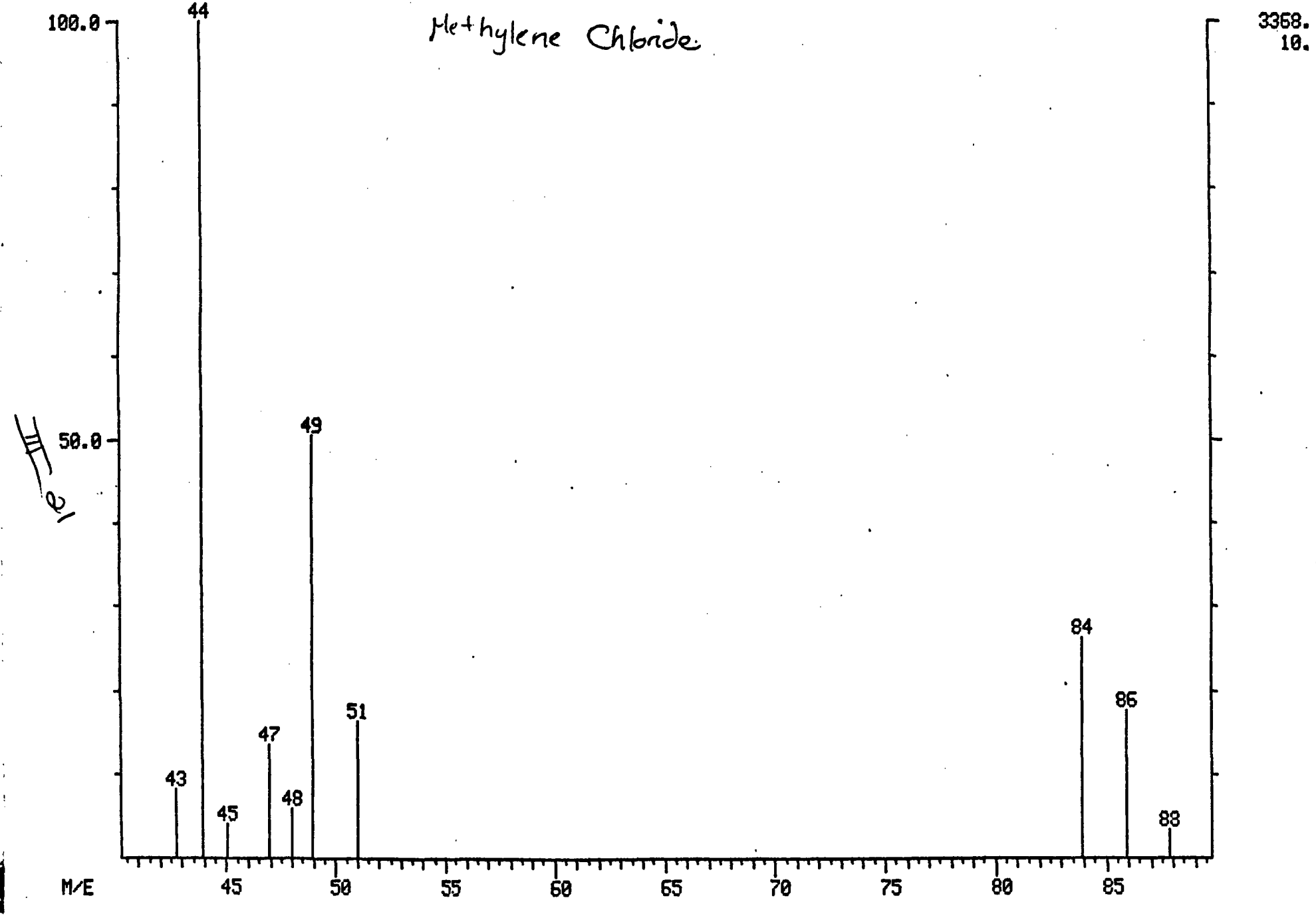

MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025
DATA: V2739
SCANS 680 TO 1000
889
7448.
101435.
39
90%
100.0
95
696
105.
105.
739
149.
149.
780
118.
118.
834
106.
106.
949
140.
676.
7448.
95.028
± 0.500
0.0
104
1.
104.031
± 0.500
19
0.0
106
1.
106.032
± 0.500
716
183.
649.
2.5
112
183.
112.034
± 0.500
700
23:55
750
25:37
800
27:20
850
29:02
900
30:45
950
32:27
1000 SCAN
34:10 TIME


MASS CHROMATOGRAMS
03/05/85 12:27:00
SAMPLE: 43229 CASE 3969 AB-025
DATA: V2739
SCANS 800 TO 1100
887
105.
105.
100.0
91
108.
91.027
± 0.500
0.9
106
1.
106.032
± 0.500
800
27:20
850
29:02
900
30:45
950
32:27
1000
34:10
1050
35:52
1100 SCAN
37:35 TIME

MASS SPECTRUM
03/05/85 12:27:00 + 8:35
SAMPLE: 43229 CASE 3969 AB-025

DATA: V2739 #251

BASE M/E: 44
RIC: 8288.

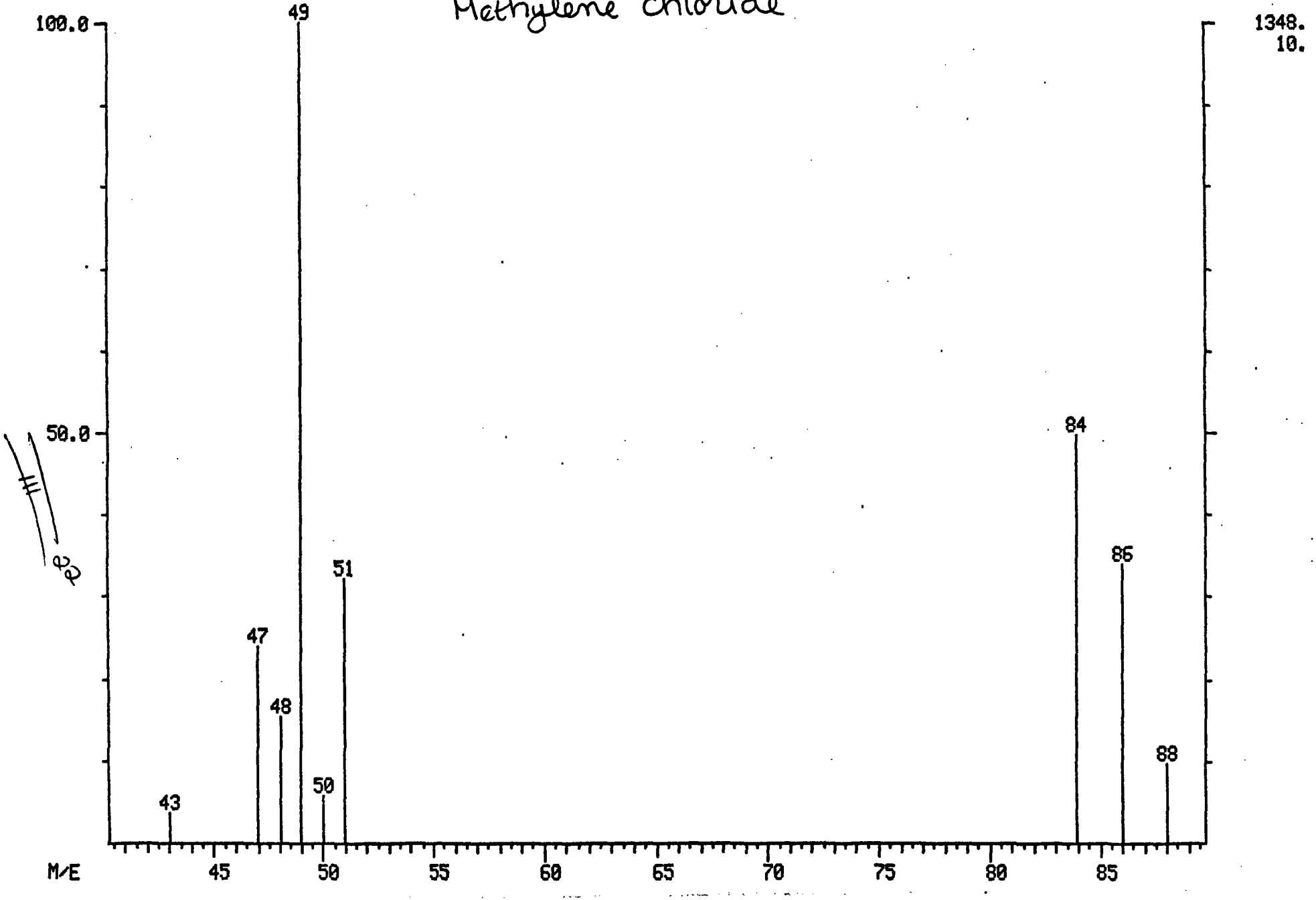


MASS SPECTRUM
03/05/85 12:27:00 + 8:35
SAMPLE: 43229 CASE 3969 AB-025
ENHANCED (S 15B 2N)

DATA: V2739 #251

BASE M/E: 49
RIC: 3704.

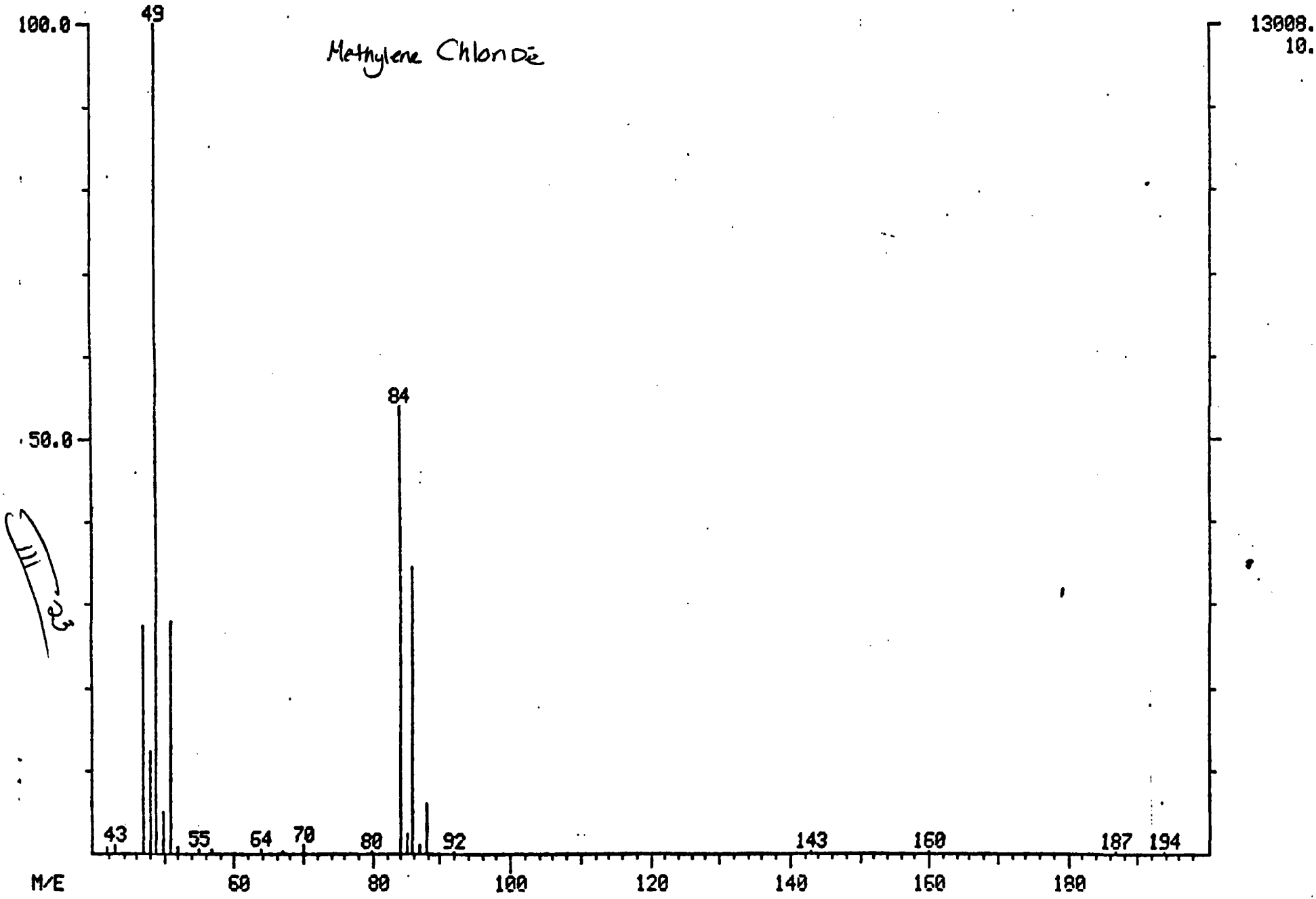
Methylene chloride

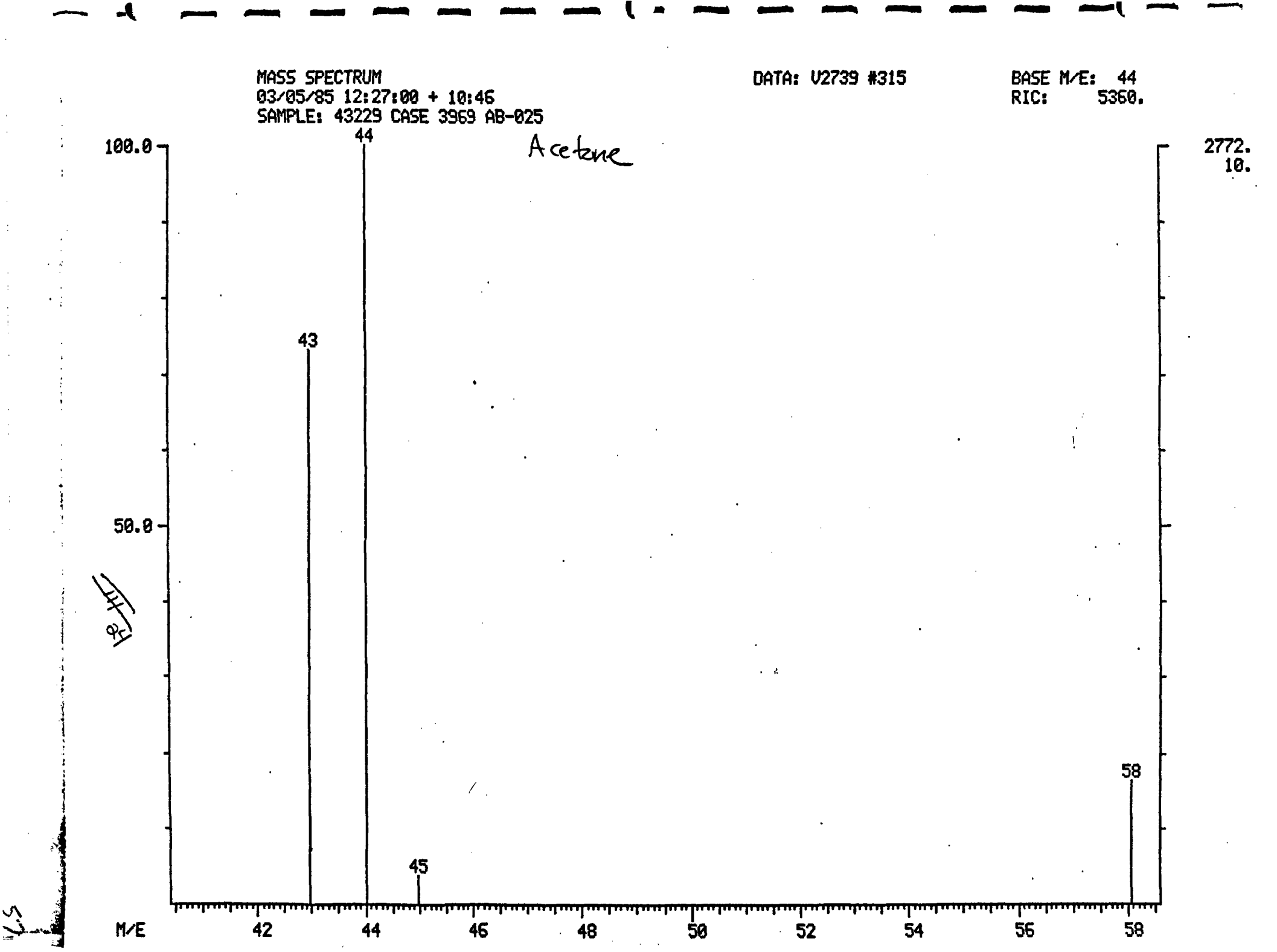


MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)

DATA: V2708 #248

BASE M/E: 49
RIC: 36224.



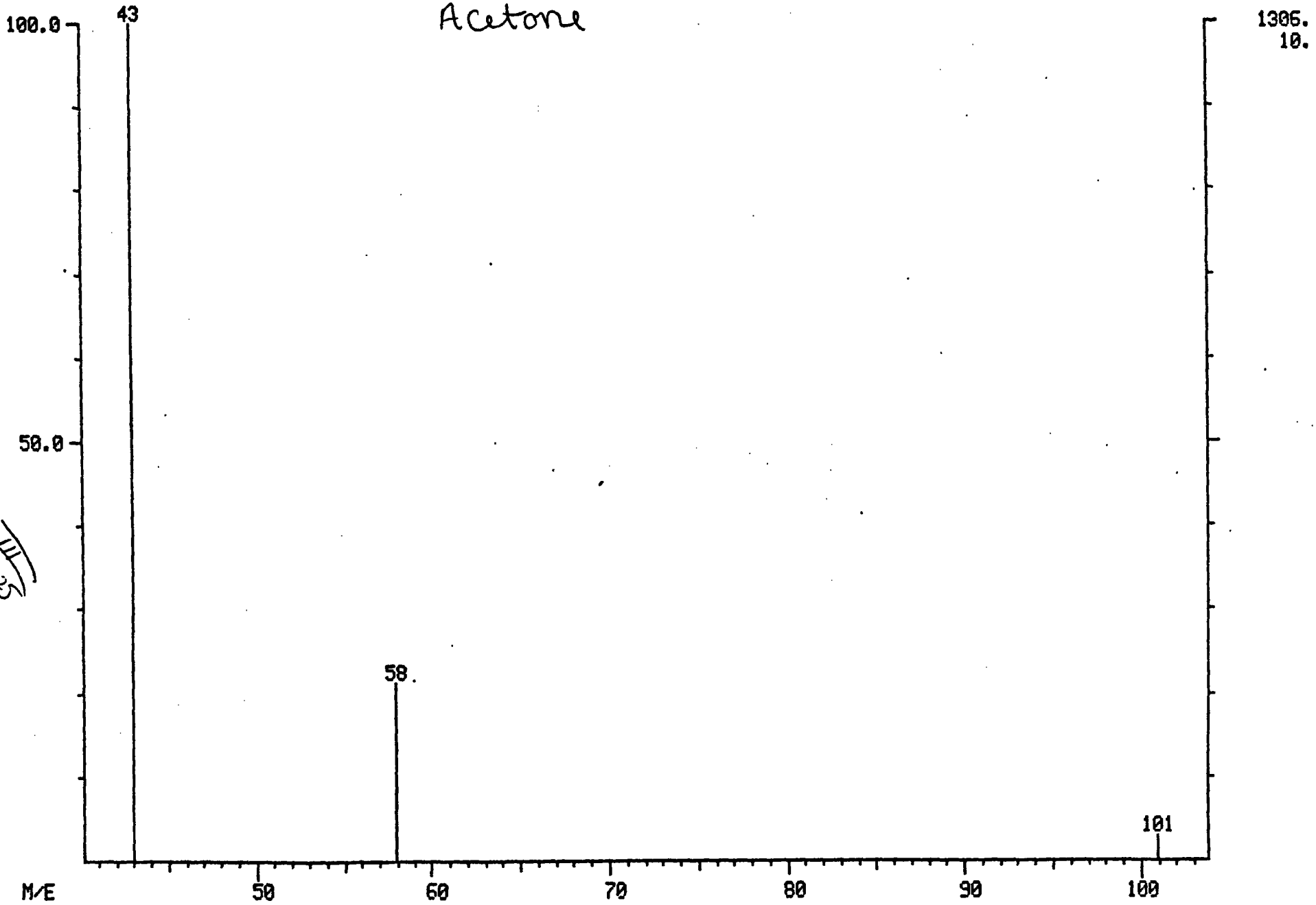

MASS SPECTRUM
03/05/85 12:27:00 + 10:46
SAMPLE: 43229 CASE 3969 AB-025
DATA: V2739 #315
BASE M/E: 44
RIC: 5360.
Acetone
100.0
50.0
2772.
10.
44
43
45
58
M/E
42
44
46
48
50
52
54
56
58

MASS SPECTRUM
03/05/85 12:27:00 + 10:46
SAMPLE: 43229 CASE 3969 AB-025
ENHANCED (S 15B 2N)

DATA: V2739 #315

BASE M/E: 43
RIC: 1622.

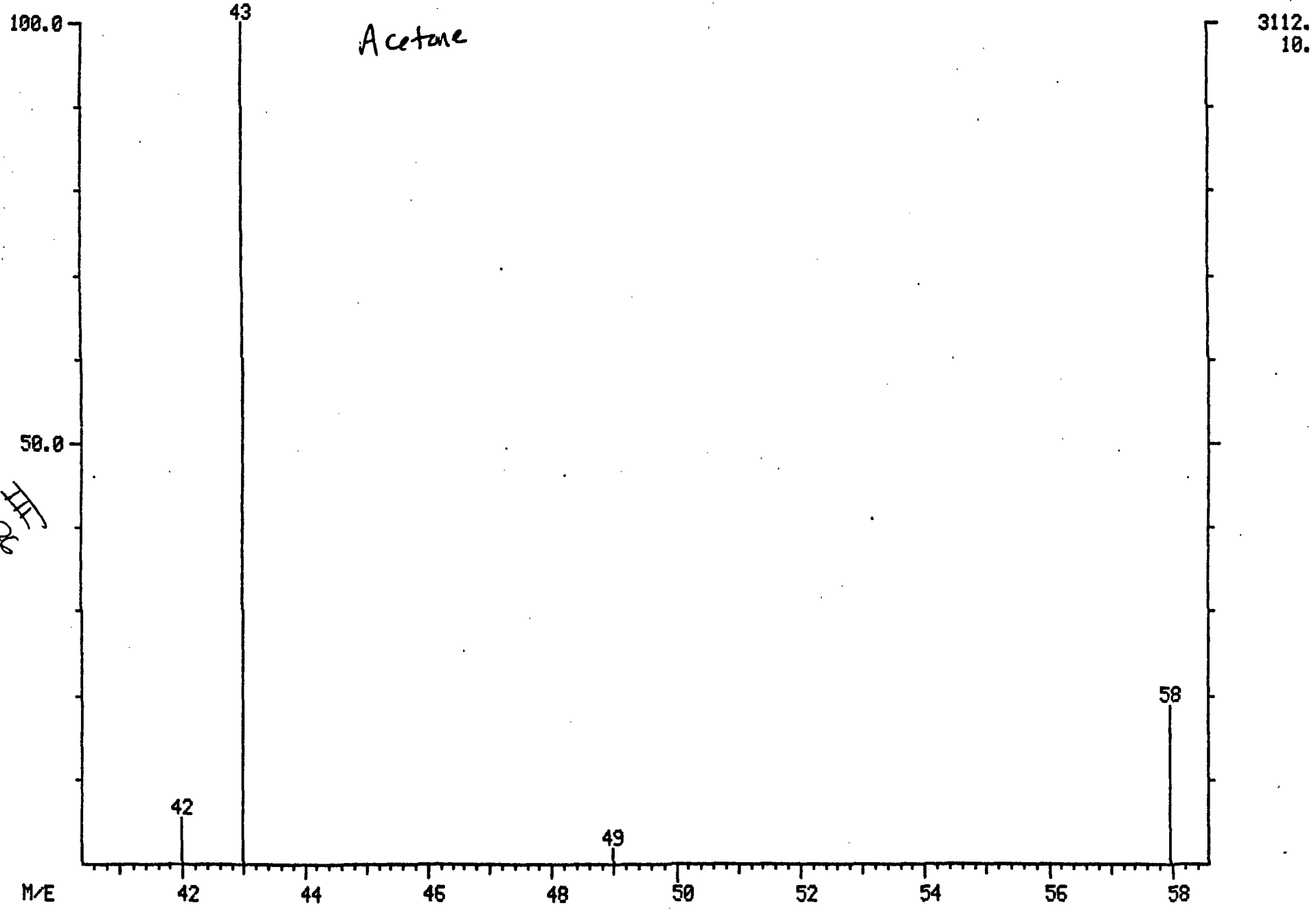
Acetone



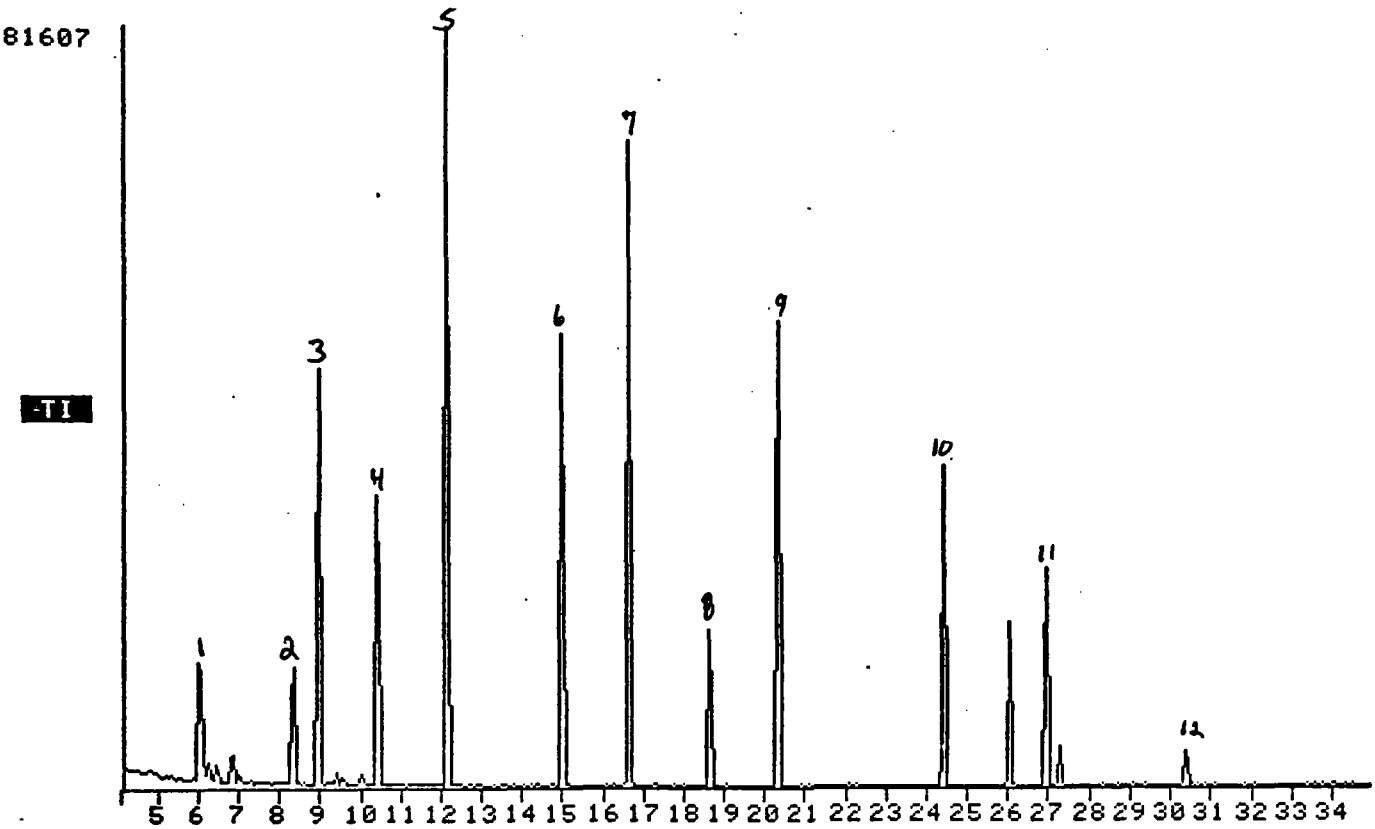
MASS SPECTRUM
03/05/85 10:58:00 + 10:50
SAMPLE: 50 PPB STD 3/5/85 case 3969
ENHANCED (S 15B 2N)

DATA: V2737 #317

BASE M/E: 43
RIC: 3932.



MFSC 3/25/85/EM BTL#18 Q14759 D14759



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

III/87

FILE NUMBER 14759

43215 AB025 CASE 3969

3/25/85/EM BTL#18 Q14759 D14759

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
9.9	74.0	.046	.0000	N-NITROSODIMETHYLAMINE			
8.4	93.0	.913	.0000	ANILINE			
8.5	93.0	.709	.0000	BIS(2-CHLOROETHYL)ETHER			
8.9	146.0	.591	.0000	1,3-DICHLOROBENZENE			
9.0	146.0	.594	.0000	1,4-DICHLOROBENZENE			
9.5	108.0	.395	.0000	BENZYL ALCOHOL			
9.5	146.0	.594	.0000	1,2-DICHLOROBENZENE			
9.9	45.0	.527	.0000	BIS(2-CHLOROISOPROPYL)ETHER			
10.2	70.0	.490	.0000	N-NITROSODINPROPYLAMINE			
10.2	117.0	.291	.0000	HEXACHLOROETHANE			
10.5	77.0	.716	.0000	NITROBENZENE			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.1	138.0	1.519	.0000	ISOPHORONE			
11.8	95.0	1.813	.0000	BIS(2-CHLOROETHOXY)METHANE			
12.1	180.0	2.642	.0000	1,2,4-TRICHLOROBENZENE			
12.2	129.0	1.325	.0000	NAPHTHALENE			
12.5	127.0	4.577	.0000	4-CHLOROANILINE			
12.7	225.0	1.190	.0000	HEXACHLOROBUTADIENE			
14.0	115.0	2.578	.0000	2-METHYLNAPHTHALENE			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE			
14.6	237.0	.205	.0000	HEXACHLOROCYCLOPENTADIENE			
15.2	164.0	.281	.0000	2-CHLORONAPTHALENE			
15.6	138.0	.397	.0000	2-NITROANILINE			
16.2	164.0	.083	.0000	DIMETHYL PHTHALATE			
16.3	151.0	.272	.0000	ACENAPHTHYLENE			
16.4	165.0	.228	.0000	2,6-DINITROTOLUENE			
16.7	138.0	.293	.0000	3-NITROANILINE			
16.8	152.0	.437	.0000	ACENAPHTHENE			
17.2	139.0	.490	.0000	DIBENZOFURAN			
17.3	165.0	.320	.0000	2,4-DINITROTOLUENE			
18.0	177.0	.171	.0000	DIETHYL PHTHALATE			
18.0	165.0	.820	.0000	FLUORENE			
18.1	204.0	.358	.0000	4-CHLOROPHENYLPHENYL ETHER			
18.2	138.0	.292	.0000	4-NITROANILINE			
17.2	169.0	.144	.0000	DIPHENYLAMINE			

II 28

43215 AB025 CASE 3969
3/25/85/EM BTL#18 Q14759 D14759

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			

27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	11.6761 ✓	BIS(2-ETHYLHEXYL)PHTHALATE			

30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	~~1.0138~~ EM	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			

27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

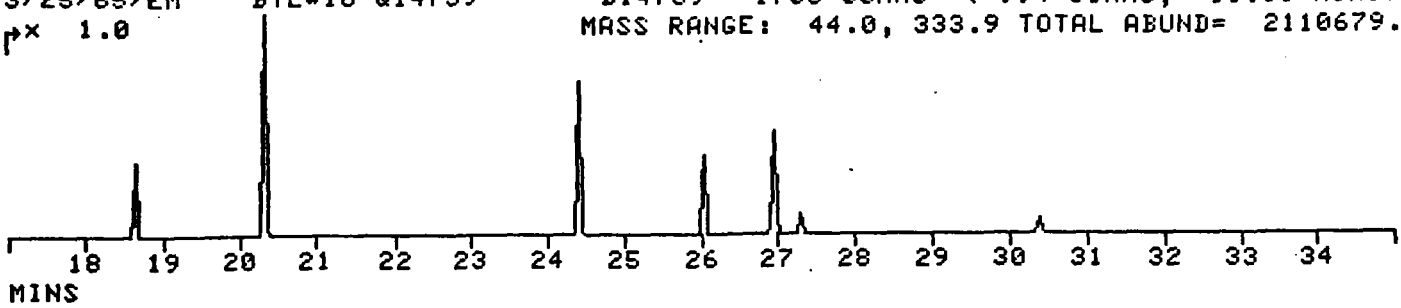
III 89

43215 AB025 CASE 3969
3/25/85/EM BTL#18 Q14759 D14759

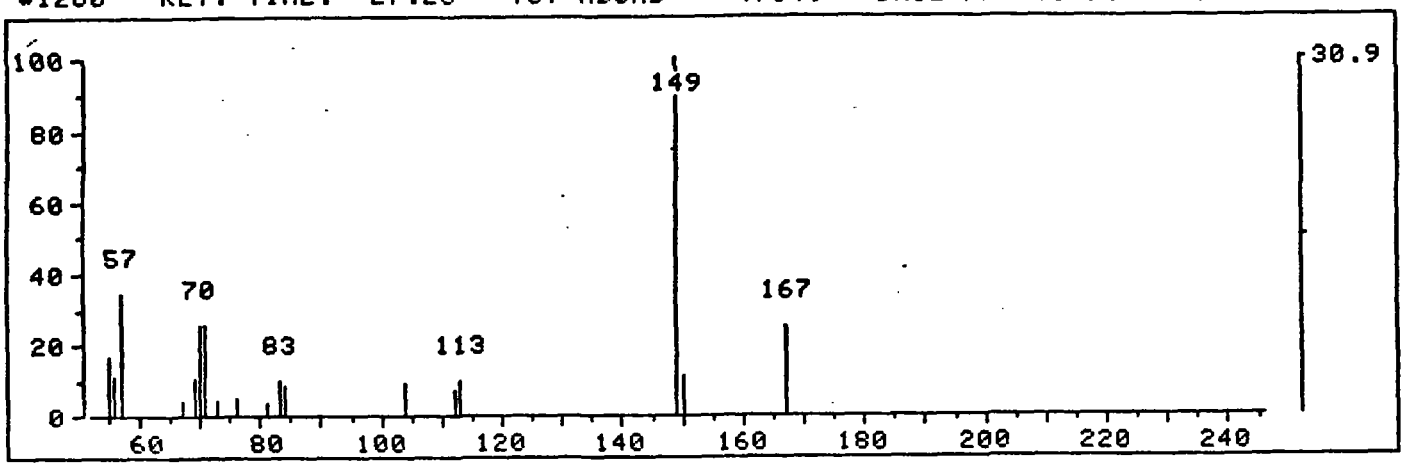
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

#F30

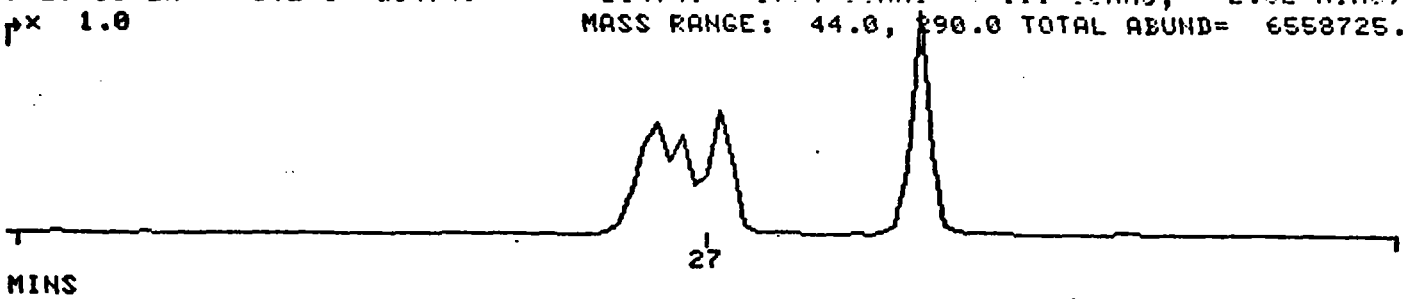
43215 AB025 CASE 3969
3/25/85/EM BTL#18 Q14759 D14759 1706 SCANS (994 SCANS, 18.00 MINS)
FRN 14759, CRN 10
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2110679.



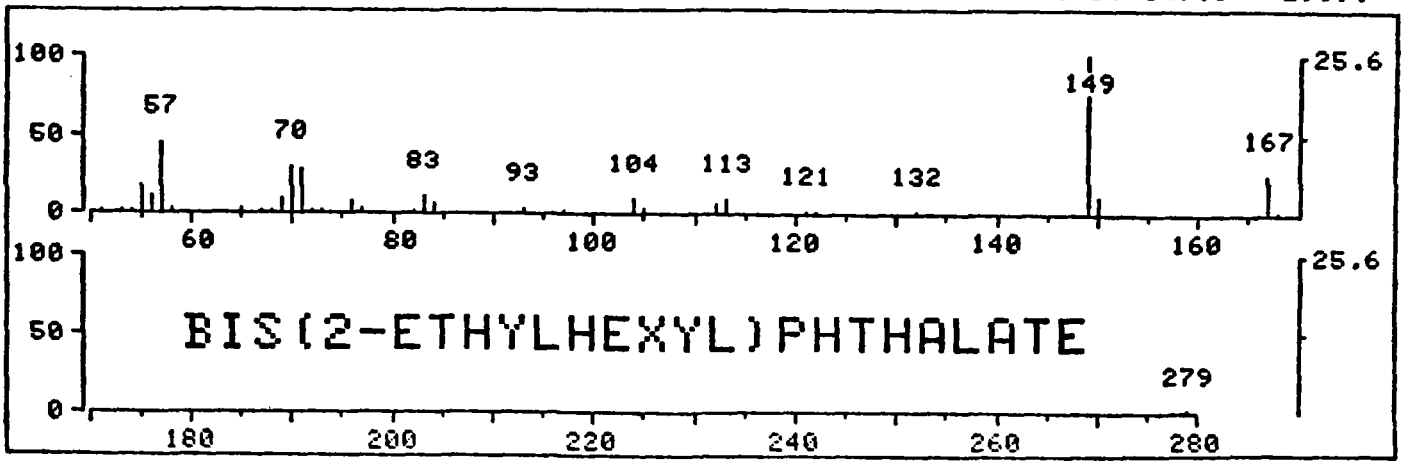
#1280 RET. TIME: 27.28 TOT ABUND= 4754. BASE PK/ABUND: 149.1/ 1471.



80BN
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (111 SCANS, 2.02 MINS)
FRN 14749, CRN 7
MASS RANGE: 44.0, 390.0 TOTAL ABUND= 6558725.

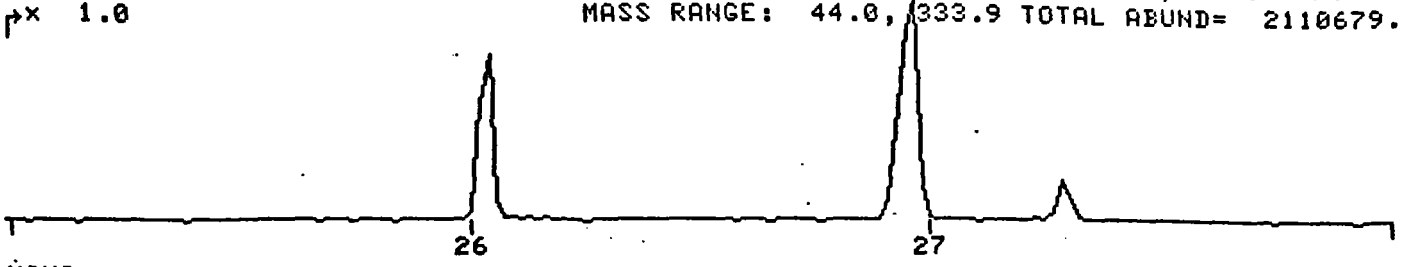


#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.



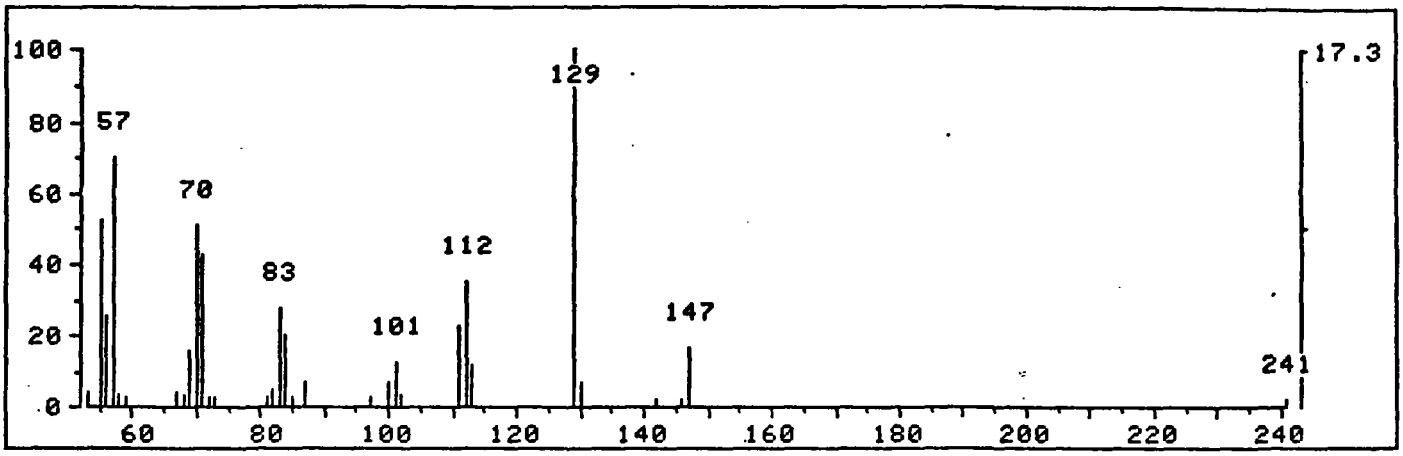
III-31

43215 AB025 CASE 3969
3/25/85/EM BTL*18 Q14759 D14759 1706 SCANS (167 SCANS, 3.02 MINS)
FRN 14759, CRN 10
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2110679.
×1.0

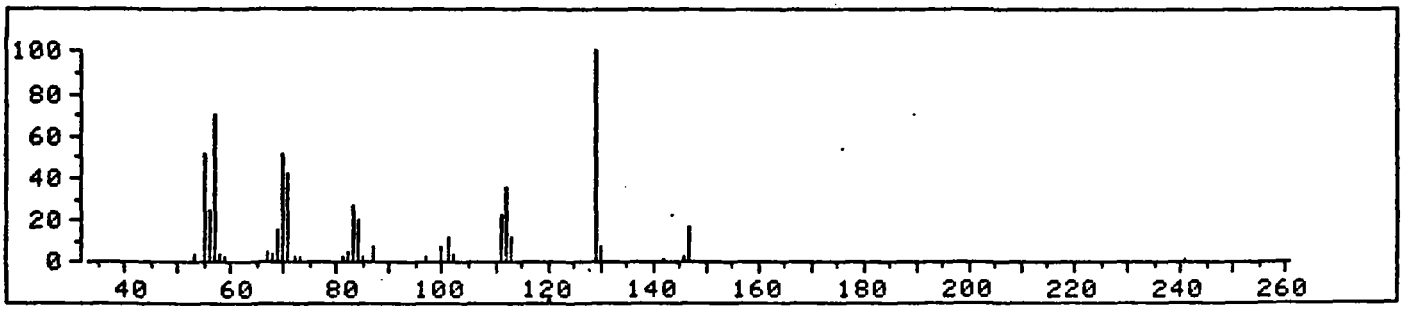


MINS

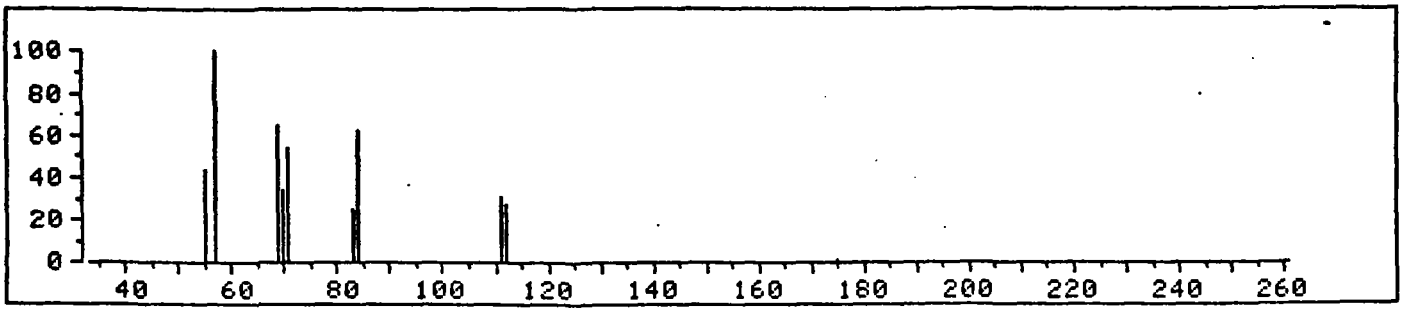
#1210 RET. TIME: 26.02 TOT ABUND= 12702. BASE PK/ABUND: 129.1/ 2197.



10 HITS: REFERENCE FRN 14759 SCAN 1210



9 LFRN 3005 SPECT 2088 MW= 174 C10H22O2
.8627 Ethanol, 2-(octyloxy)- (8CI9CI)



III 32

AREA TABLE ENTRIES: FRN 14759

Entry	Time	Mass	Area	%
1	27.0	239.7	17170.	100.0
2	26.0	TI	33005.	192.2

CALCULATE % ON ENTRY #:

III 33

Date 3/30/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

Case # 3969

Sample I.D. 43215 / AB025 HP 5880
Run # 16 Bottle # 16

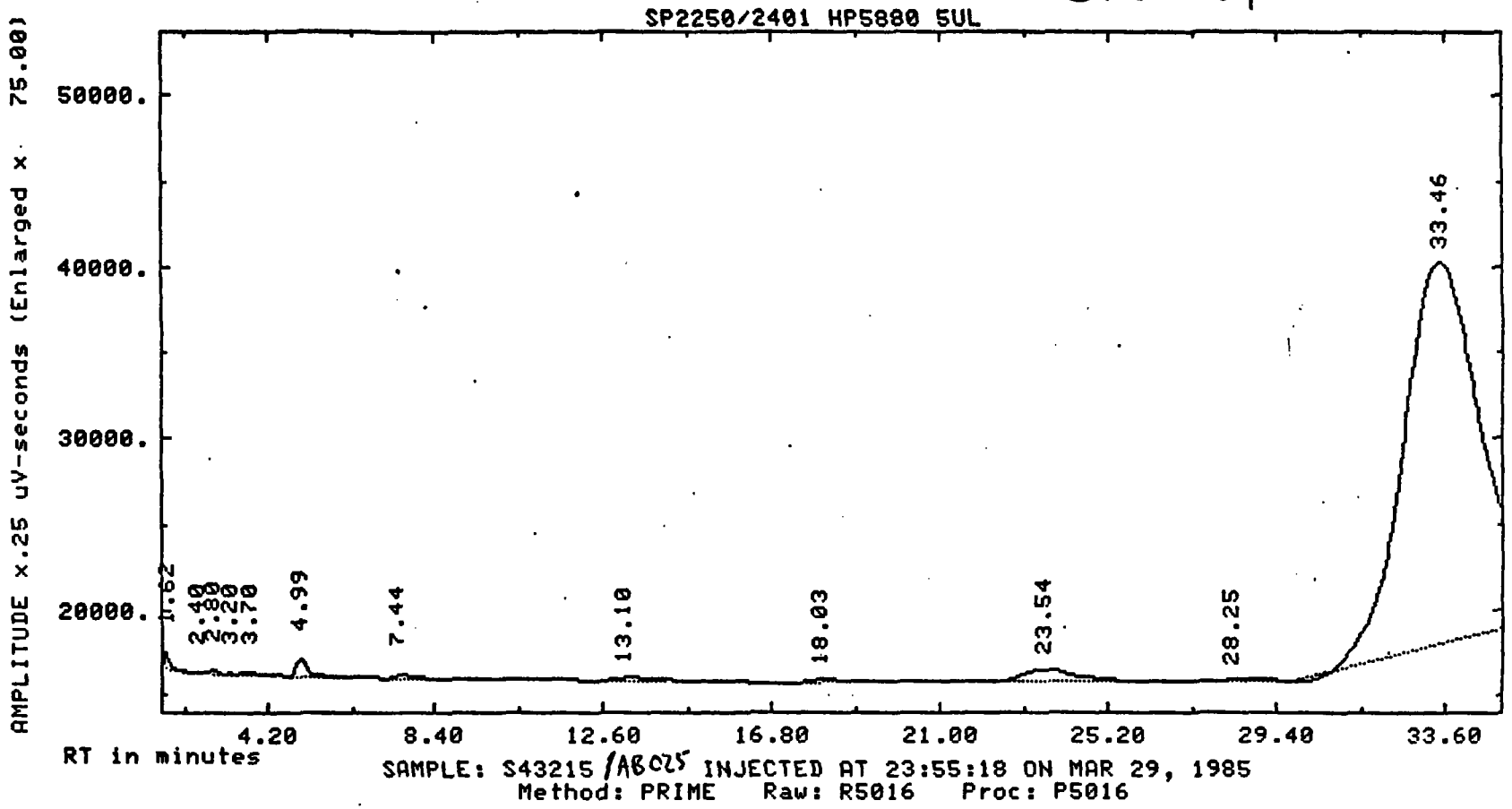
RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
3.20	Heptachlor	0.28	<5.0	x10 ÷ 1000 =	<0.05	
23.55	Interferance					
	DBC obscured by peak at 33 min					
	Detection limit for Endosulfan Sulfate increased					
	to 0.25 U because of interferance from peak					
	at 23.55 RT.					

GCA CORPORATION Technology Division

GCA

II-34

Case 3969



III 35

Case 3969

PROCESSED DATA FILE: P5016 ON CRN 21

APR 2, 1985 11:35:50

REPORT: 112 CHANNEL: 2 # PEAKS: -16 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.31	0.00	1.00000	172	BV	.009	
2	1.44	0.00	1.00000	308	VV	.016	
3	1.62	0.00	1.00000	3853	VB	.206	
4	2.40	0.00	1.00000	115	BB	.006	
5	2.80	0.00	1.00000	1089	BV	.058	
6	3.20	0.00	1.00000	282	VV	.015	
7	3.70	0.00	1.00000	1809	VB	.096	
8	4.99	0.00	1.00000	9114	BB	.486	
9	7.44	0.00	1.00000	3126	BB	.167	
10	13.10	0.00	1.00000	4160	BB	.222	
11	18.03	0.00	1.00000	5826	BB	.311	
12	23.54	0.00	1.00000	33198	BB	1.770	
13	28.25	0.00	1.00000	4451	BB	.237	
14	33.46	0.00	1.00000	1610377	BV	85.880	
15	37.41	0.00	1.00000	167116	VV	8.912	
16	38.96	0.00	1.00000	30140	VF	1.607	

TOTAL AREA = 1875137 TOTAL AREA % = 100.000

SAMPLE: S43215/AB025 INJECTED AT 23:55:18 ON MAR 29, 1985

ZERO METHOD: PRIME SEQ: SM03 SUBSQ/SAMP: 1 / 16 BTL: 16

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	NO

ACTUAL RUN TIME: 40.017 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: R5016 PARAM FILES= METHOD: SEQ:

DONE
READY

HL 36

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:
GCA
213 Burlington Rd.
Bedford, MA 01730

Attn: Gary Hunt

Transfer
Ship To:

⑤ Regional Office: I

Sampling Personnel:
John Williams
(Name)
(617) 742-5151
(Phone)

Sampling Date:
(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	80 cc
Water (VOA)	2	40 ml
Soil/Sediment (Extractable)		
Soil/Sediment (VOA)		
Other		

⑦ Shipping Information

Name of Carrier

Date Shipped:

Airbill Number:

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 3/16/5
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

No sample Tags

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MAA024

FF 5

LAB FILE COPY

Organics Analysis Data Sheet
(Page 1)

...atory Name: GCA
...ample ID No.: 43230
...le Matrix: water
Release Authorized By: ______

Case No.: 3969
QC Report No: 3969
Contract No: 68-01-6767
Date Sample Received: 3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3/4/85
Date Analyzed: 3/4/85
Conc/Dil Factor: 1 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

E[illegible] 5/2/85
R=Reject

...S Number		(ug/l) or ug/Kg (Circle One)
...87-3	Chloromethane	10u
...83-9	Bromomethane	10u
...01-4	Vinyl Chloride	10u
...00-3	Chloroethane	10u
...09-2	Methylene Chloride	7.5 R
...64-1	Acetone	10u
...15-0	Carbon Disulfide	5u
...35-4	1, 1-Dichloroethene	5u
...34-3	1, 1-Dichloroethane	5u
...60-5	Trans-1, 2-Dichloroethene	5u
...66-3	Chloroform	5u
...07-06-2	1, 2-Dichloroethane	5u
...-93-3	2-Butanone	10u
...-55-6	1, 1, 1-Trichloroethane	5u
...23-5	Carbon Tetrachloride	5u
...08-05-4	Vinyl Acetate	10u
...-27-4	Bromodichloromethane	5u

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	* ~~5u~~ a

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

* See narrative

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound [illegible]

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

III 38

P O Box 818, Alexandria, Virginia 22313 703/557-2490

AB 026

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.00 / 1.0 mL

Extract 5/2/85 R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95 57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83 2	2, 4 Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4 Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58 7	2-Chloronaphthalene	10u
88 74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	5 K R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

A B026

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 4/1/85

Conc/Dil Factor: 1

CT.mm 5/15/85

NA = Not Analyzed

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4, 4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4, 4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

Jill Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

III 40

AB 026

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Compounds found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

41

4/84

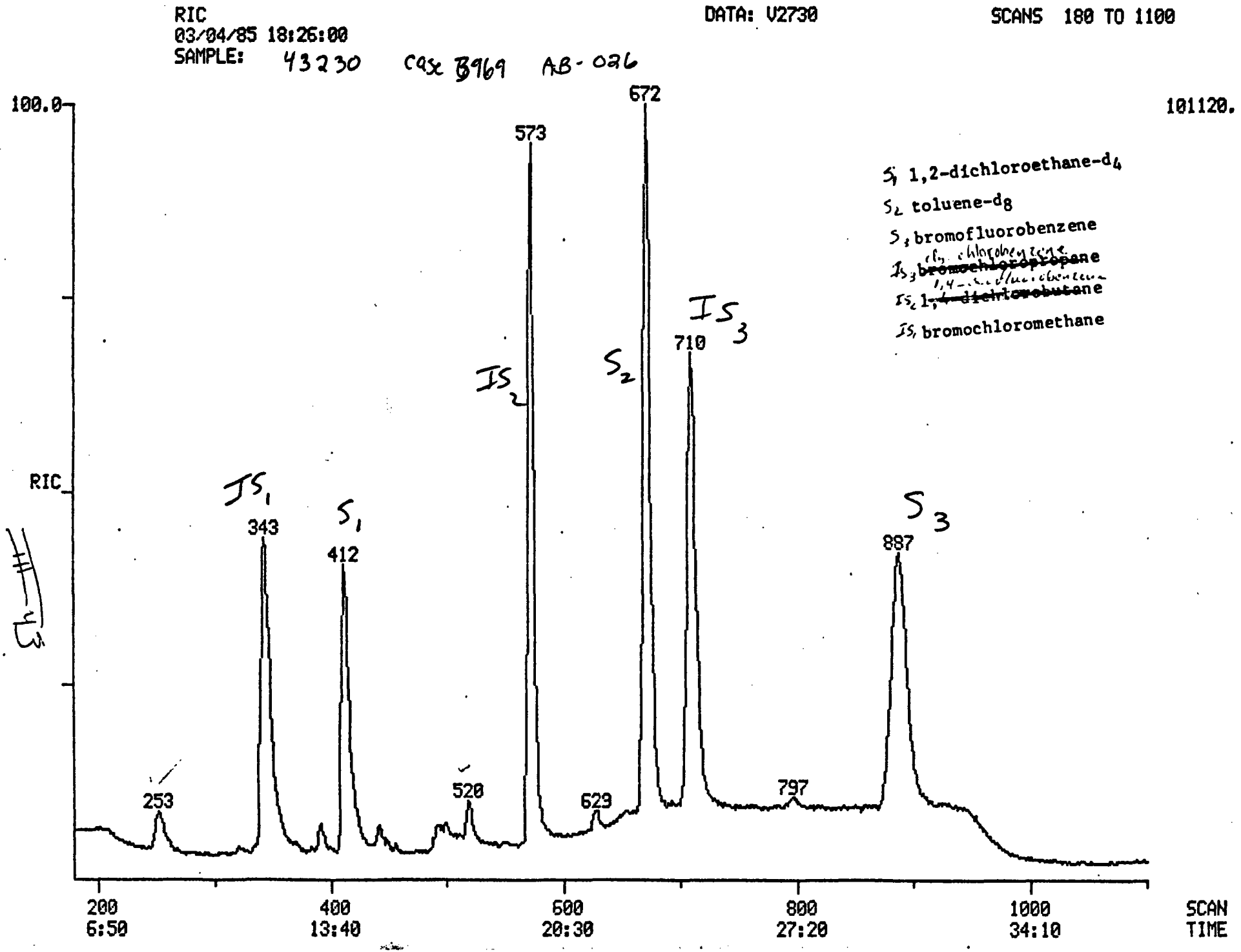
14

AB 026

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	BN/A	26.0	109 J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


RIC
03/04/85 18:26:00
SAMPLE: 43230 Case B969 AB-026
DATA: V2730
SCANS 180 TO 1100
100.0
101120.
RIC
672
573
710
343
412
887
253
520
629
797
IS1
S1
IS2
S2
IS3
S3
S1 1,2-dichloroethane-d4
S2 toluene-d8
S3 bromofluorobenzene
IS3 chlorobenzene-d5
IS2 1,4-difluorobenzene
IS1 bromochloromethane
200
6:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

QUANTITATION REPORT FILE: M16

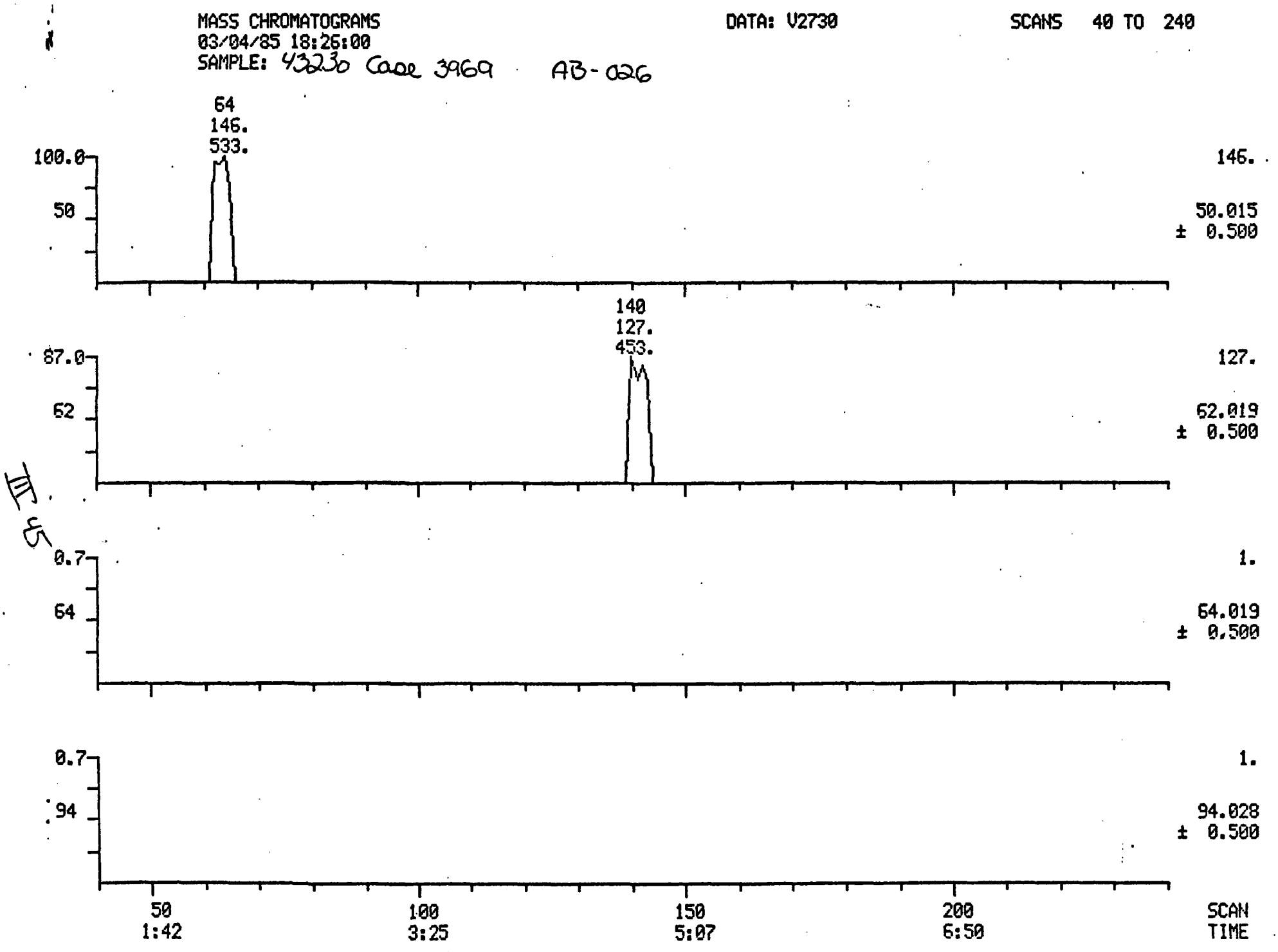
DATA: V2635.TI
02/20/85 11:31:00 3931 CM
SAMPLE: ~~[illegible]~~ CASE ~~3896~~ CM
SUBMITTED BY: ANALYST

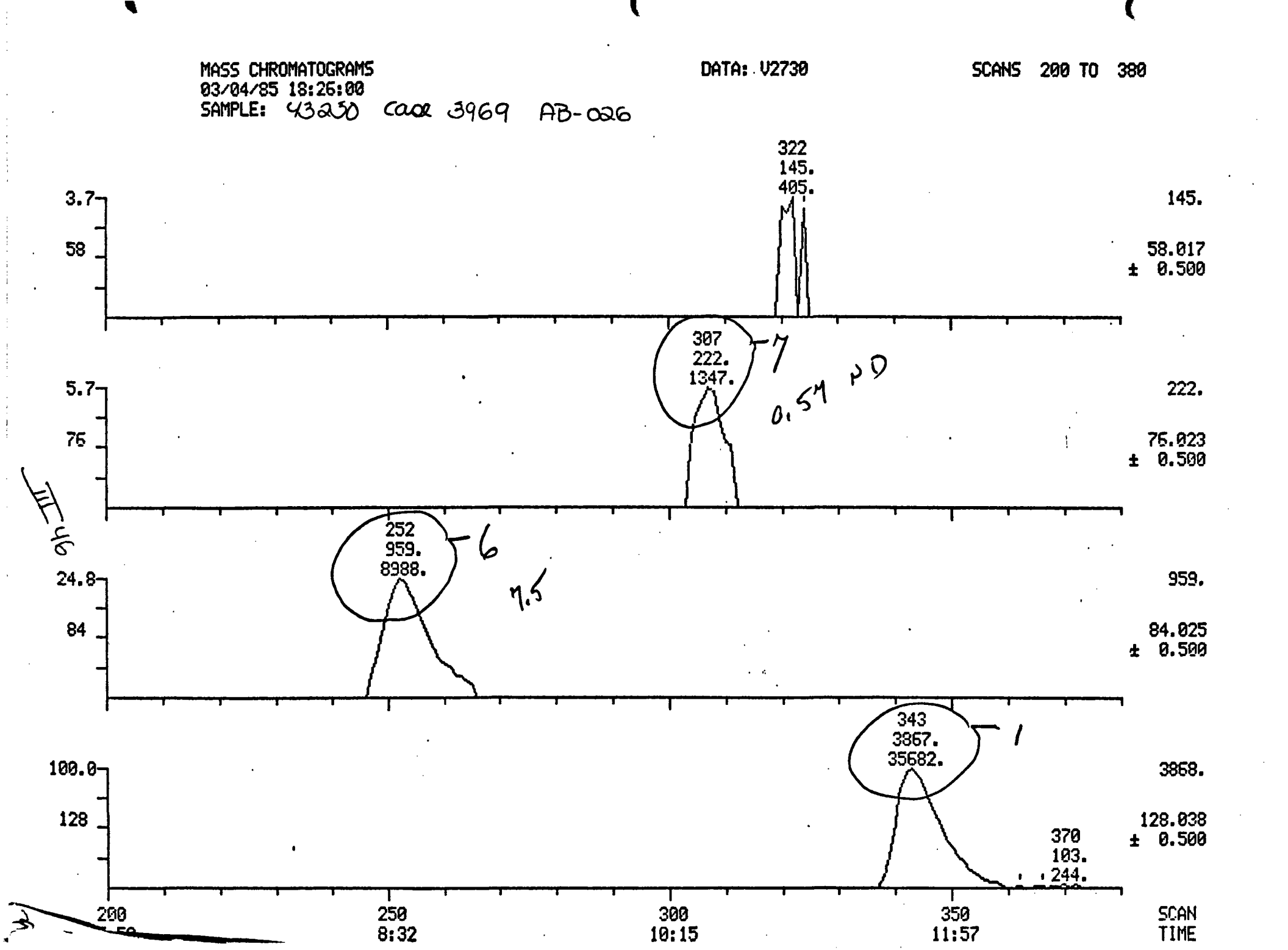
AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

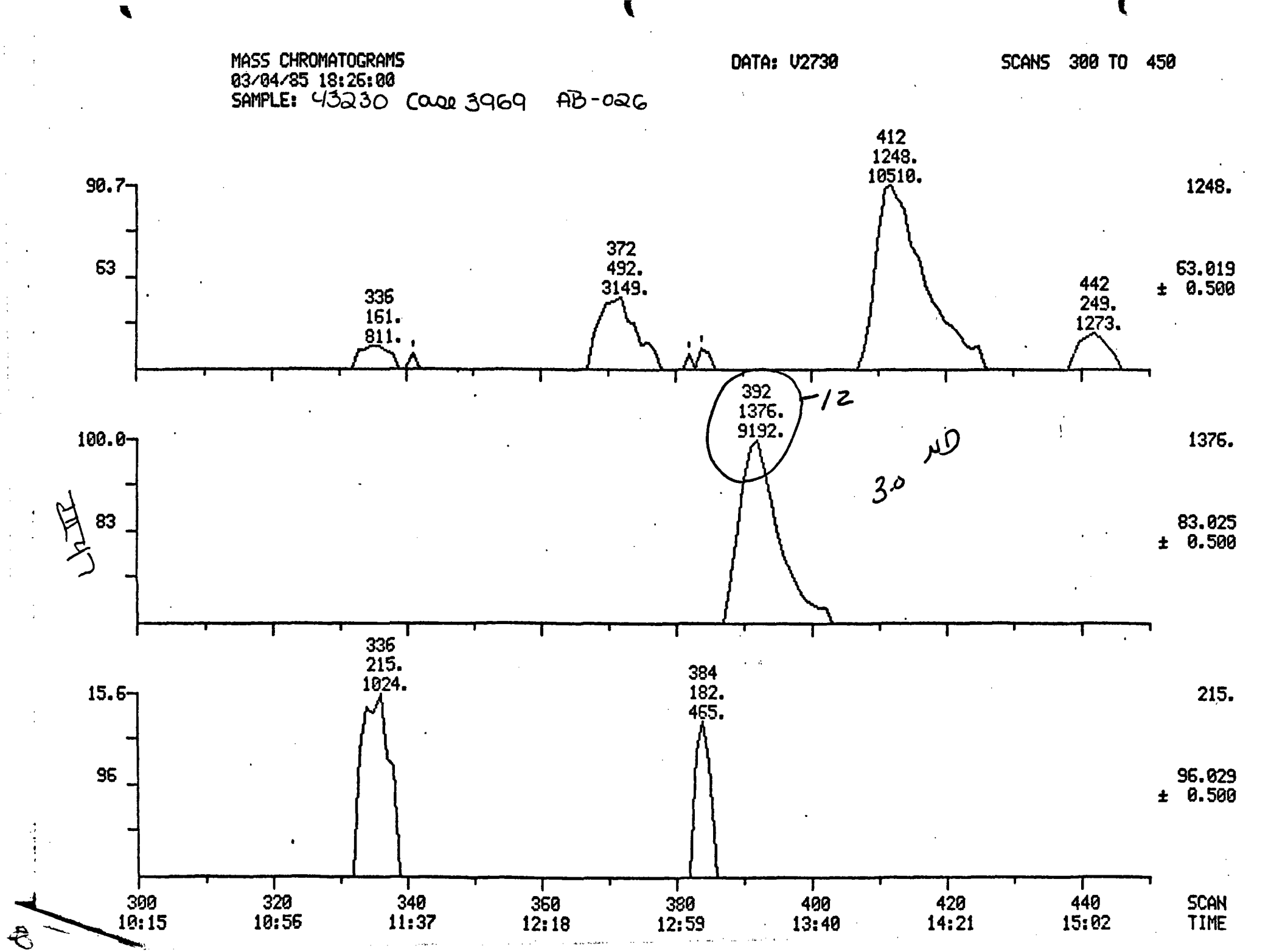
NO	NAME
1	BROMOCHLOROMETHANE(INTERNAL STANDARD #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	CARBON DISULFIDE
8	ACETONE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS-1,2-DICHLOROETHENE
12	CHLOROFORM
13	D4-1,2-DICHLOROETHANE (SURR #1)
14	1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	CARBON TETRACHLORIDE
17	VINYL ACETATE
18	2-BUTANONE
19	1,4-DIFLUROBENZENE(I.S. #2)
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS-1,3-DICHLOROPROPENE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	CIS-1,3-DICHLOROPROPENE
27	BENZENE
28	2-CHLOROETHYL VINYL ETHER
29	BROMOFORM
30	D8-TOLUENE(SURR#2)
31	D5-CHLOROBENZENE
32	TETRACHLOROETHENE
33	1,1,2,2-TETRACHLOROETHANE
34	4-METHYL-2-PENTANONE
35	2-HEXANONE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYL BENZENE
39	BFB (SURR#3)
40	STYRENE
41	Xylene

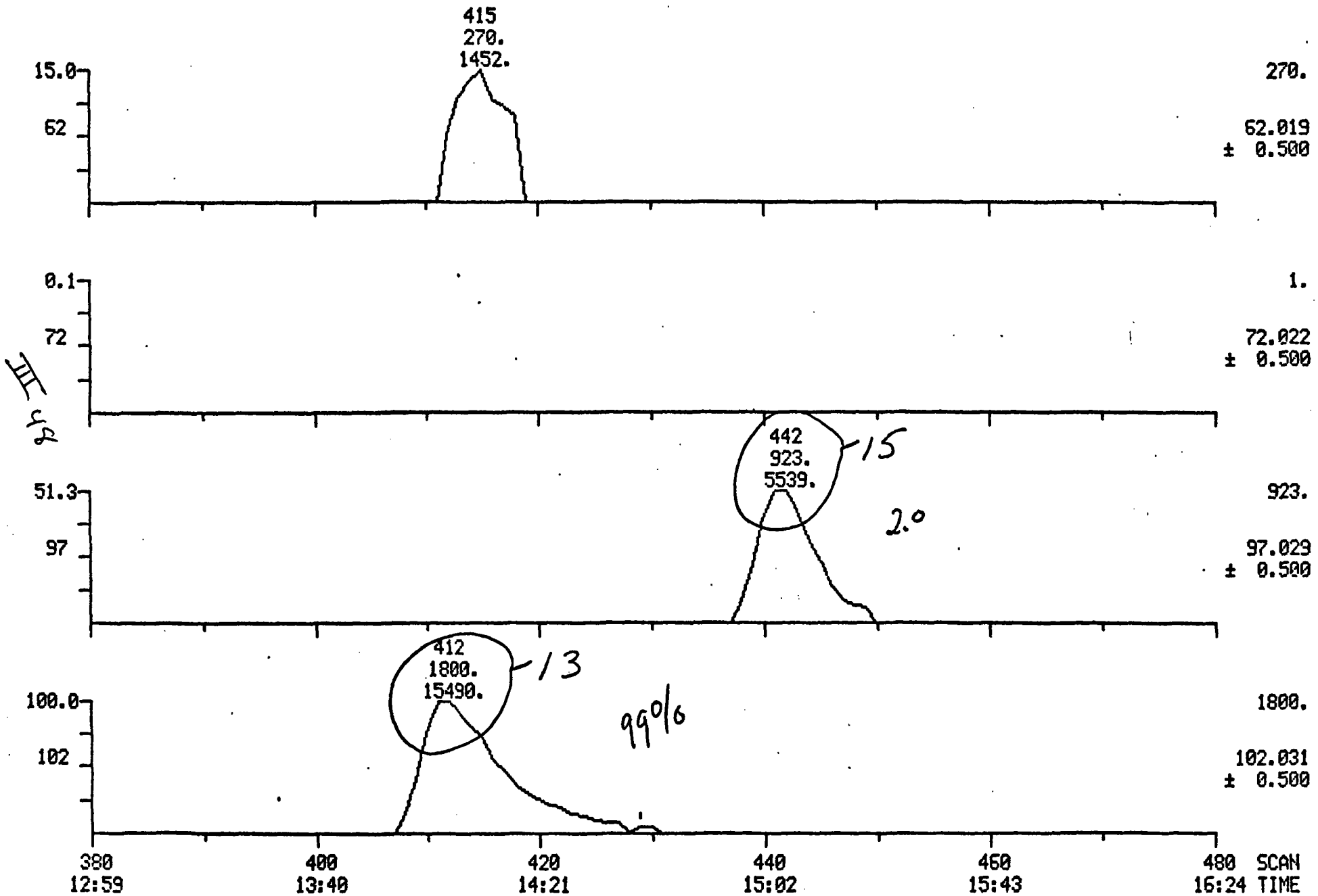
No	Name	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	[illegible]	352	12:02	1	1.000	A BB	37721.	50.000	UG/L	2.33
2	[illegible]	72	2:28	1	0.205	A BB	53027	50.000	UG/L	2.33
3	[illegible]	127	4:20	1	0.361	A BB	37373	50.000	UG/L	2.33
4	[illegible]	163	5:34	1	0.463	A BB	46415.	50.000	UG/L	2.33

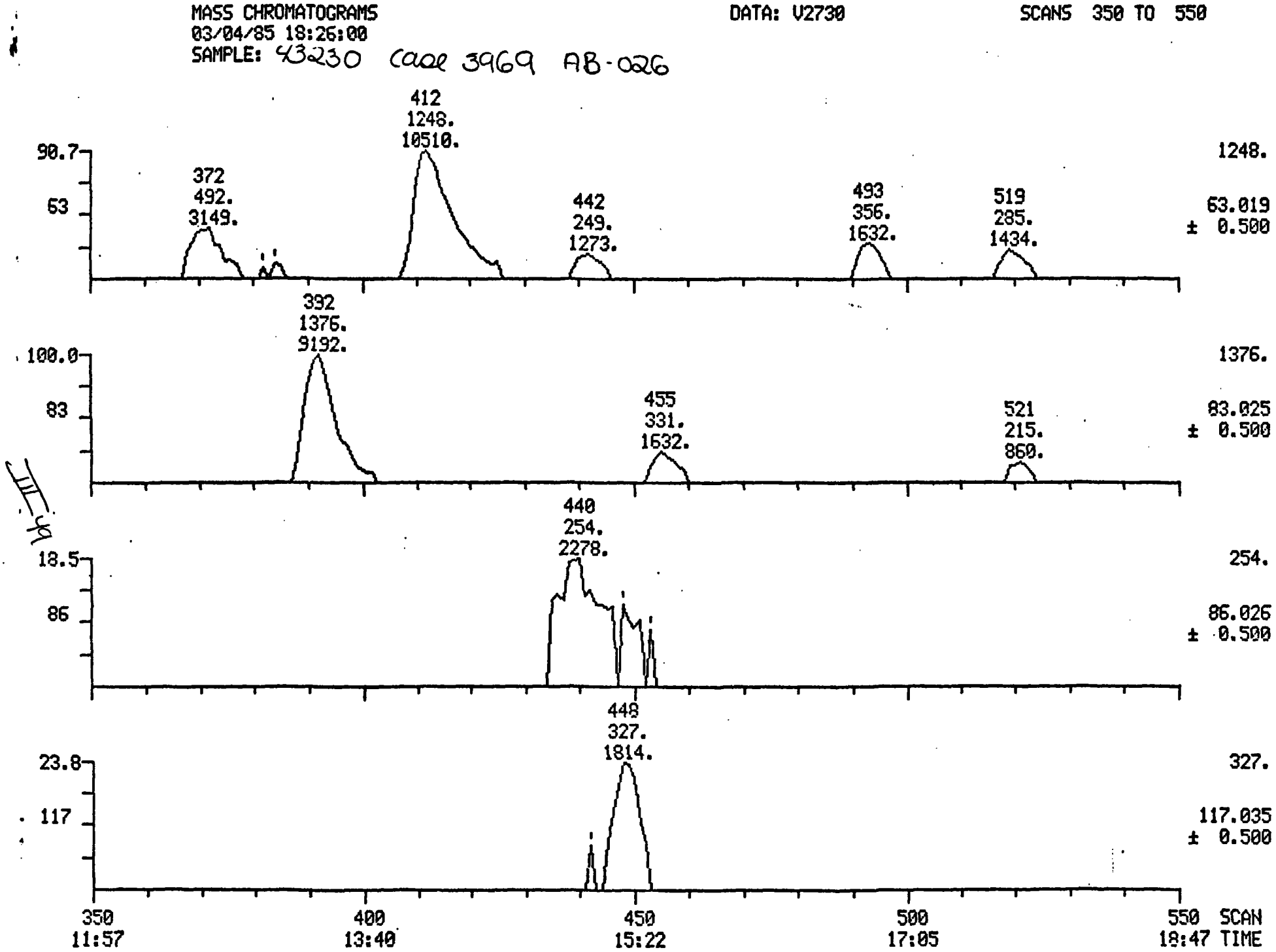
III 44


MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 Case 3969 AB-026
DATA: V2730
SCANS 40 TO 240
64
146.
533.
100.0
50
146.
50.015
± 0.500
140
127.
453.
87.0
62
127.
62.019
± 0.500
0.7
64
1.
64.019
± 0.500
0.7
94
1.
94.028
± 0.500
50
1:42
100
3:25
150
5:07
200
6:50
SCAN
TIME


MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 case 3969 AB-026
DATA: V2730
SCANS 200 TO 380
322
145.
405.
3.7
58
145.
58.017
± 0.500
307
222.
1347.
7
0.5M pD
5.7
75
222.
75.023
± 0.500
252
959.
8988.
6
7.5
24.8
84
959.
84.025
± 0.500
343
3867.
35682.
1
100.0
128
3868.
128.038
± 0.500
370
103.
244.
200
8:32
250
10:15
300
350
11:57
SCAN
TIME


MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 Case 3969 AB-026
DATA: V2730
SCANS 300 TO 450
90.7
63
336
161.
811.
372
492.
3149.
412
1248.
10510.
442
249.
1273.
1248.
63.019
± 0.500
100.0
83
392
1376.
9192.
12
30 ND
1376.
83.025
± 0.500
15.6
96
336
215.
1024.
384
182.
465.
215.
96.029
± 0.500
300
10:15
320
10:56
340
11:37
360
12:18
380
12:59
400
13:40
420
14:21
440
15:02
SCAN
TIME

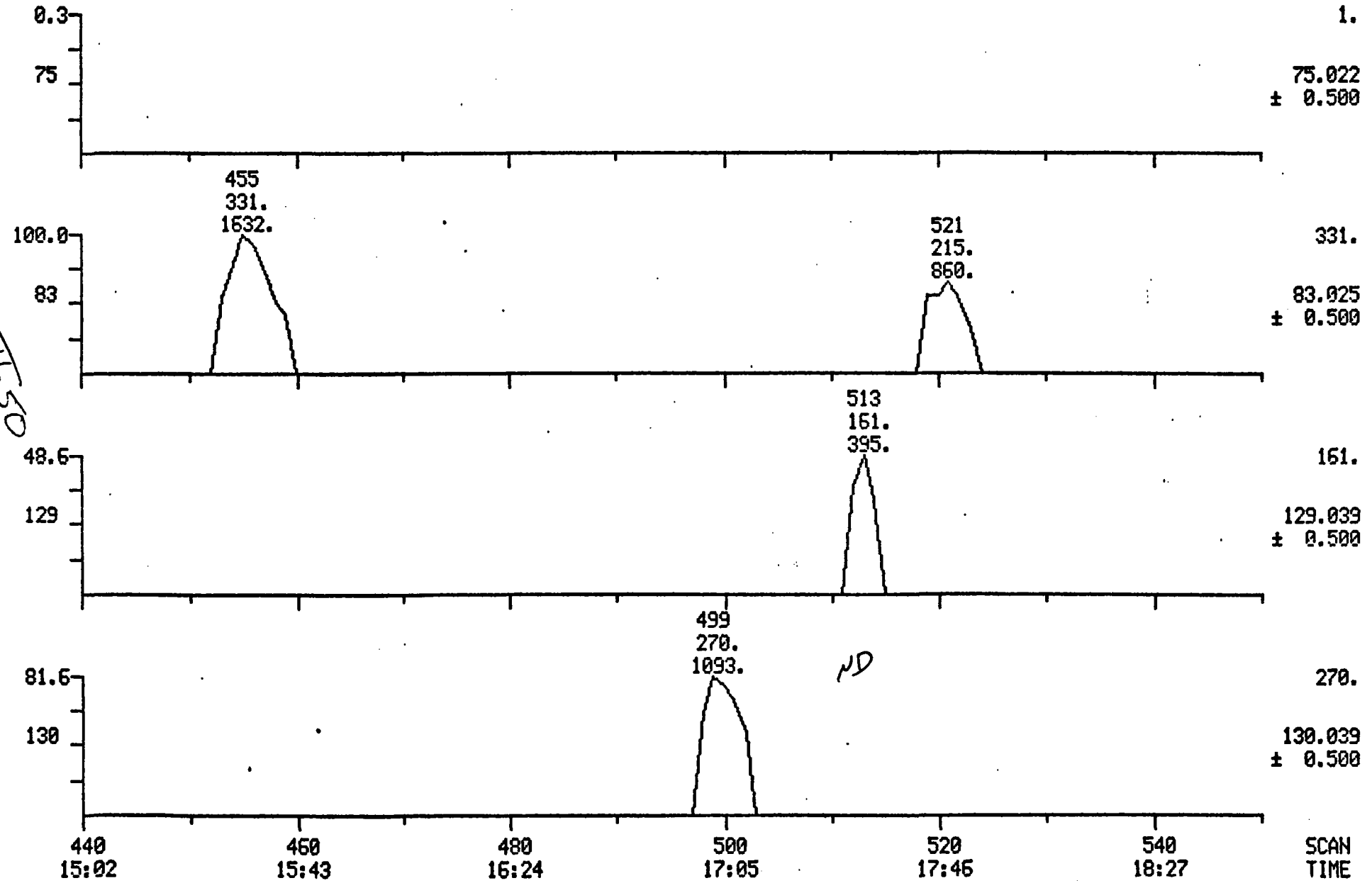

MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 Case 3969 AB-026
DATA: V2730
SCANS 380 TO 480
415
270.
1452.
15.0
62
270.
62.019
± 0.500
0.1
72
1.
72.022
± 0.500
442
923.
5539.
15
2.0
51.3
97
923.
97.029
± 0.500
412
1800.
15490.
13
99%
100.0
102
1800.
102.031
± 0.500
380
12:59
400
13:40
420
14:21
440
15:02
460
15:43
480 SCAN
16:24 TIME


MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 case 3969 AB-026
DATA: V2730
SCANS 350 TO 550
412
1248.
10510.
372
492.
3149.
442
249.
1273.
493
356.
1632.
519
285.
1434.
90.7
53
1248.
63.019
± 0.500
392
1376.
9192.
455
331.
1632.
521
215.
860.
100.0
83
1376.
83.025
± 0.500
440
254.
2278.
18.5
86
254.
86.026
± 0.500
448
327.
1814.
23.8
117
327.
117.035
± 0.500
350
11:57
400
13:40
450
15:22
500
17:05
550 SCAN
18:47 TIME

MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 Case 3960 AB-026

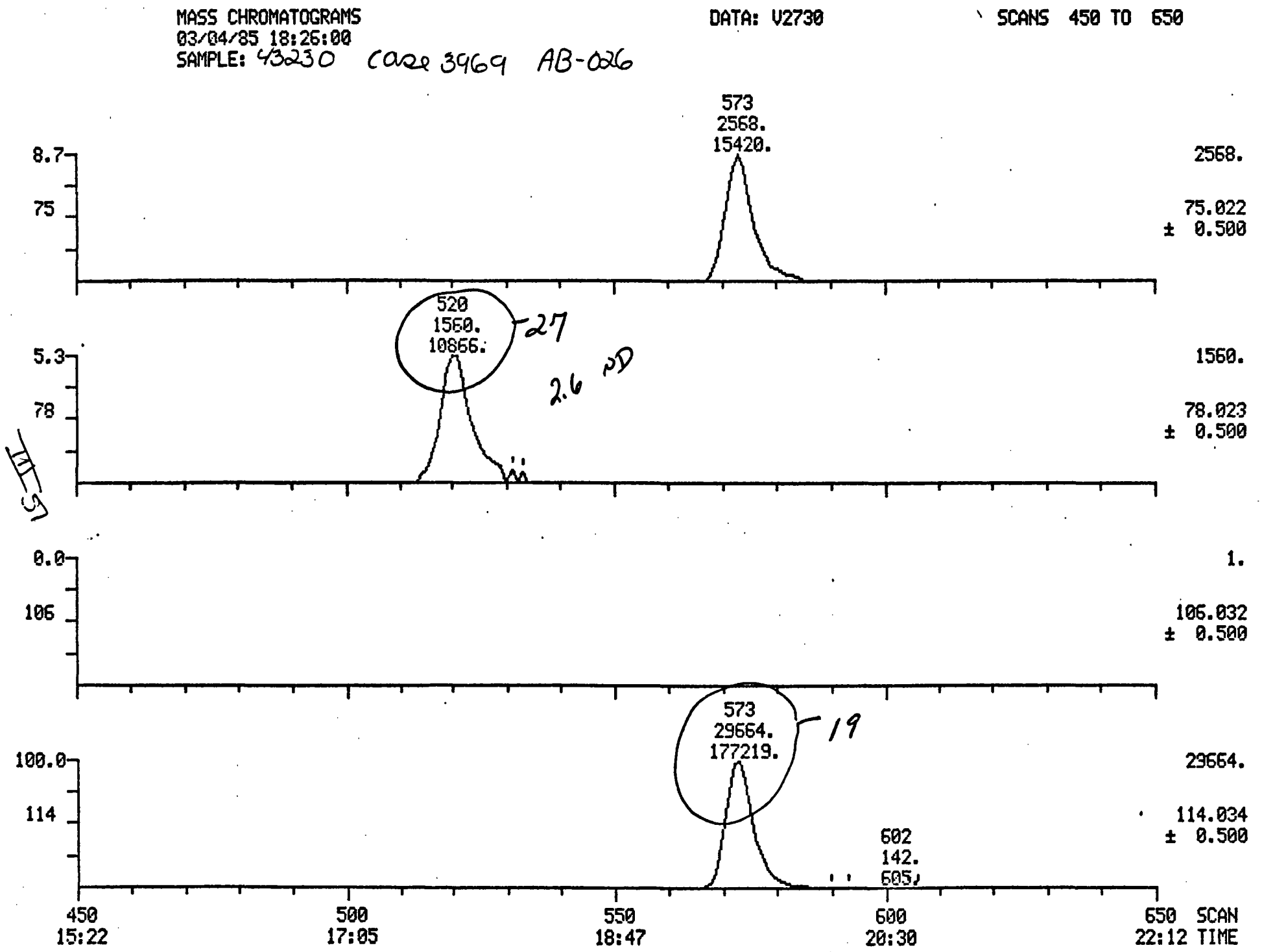
DATA: V2730

SCANS 440 TO 550



TI 50

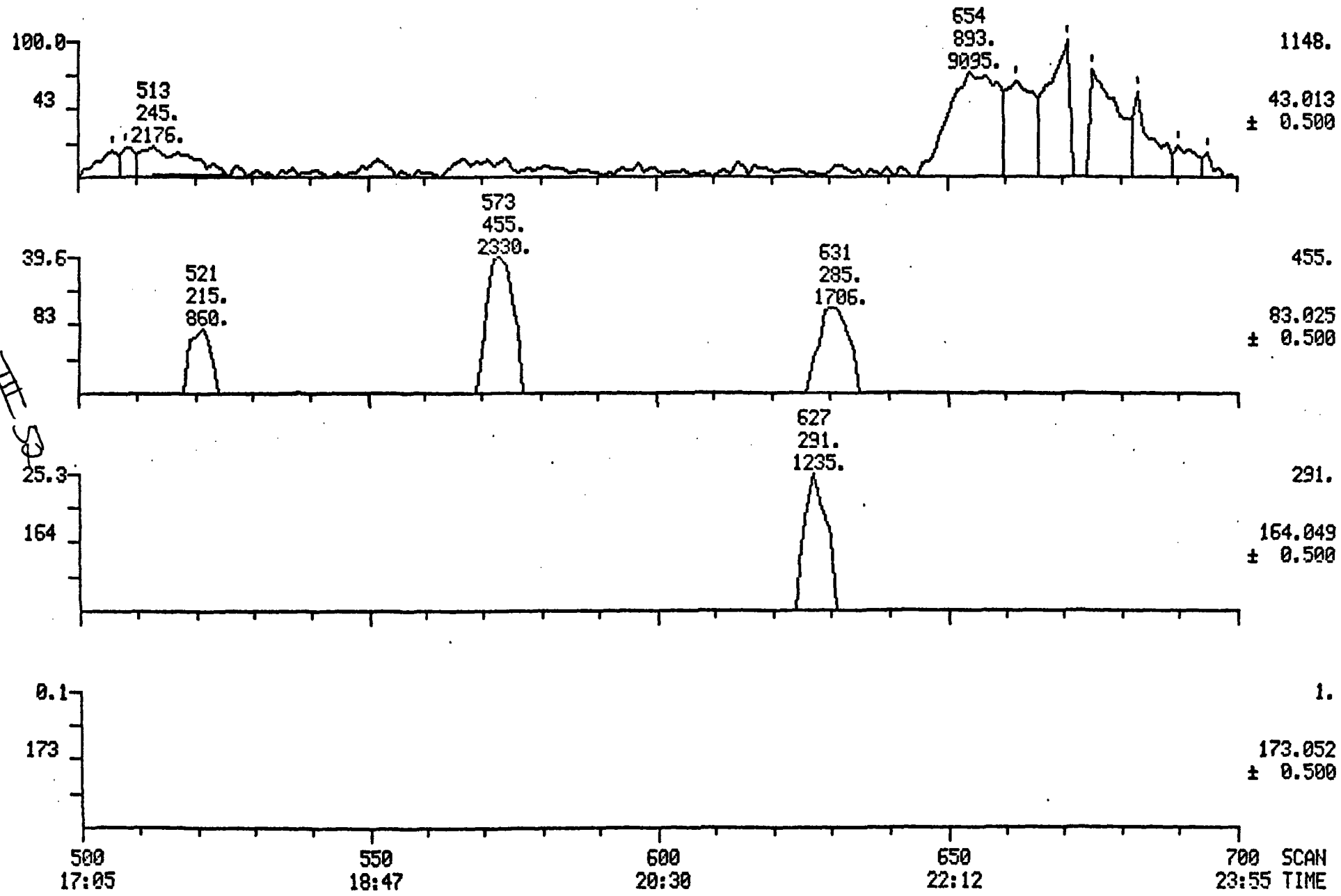
ND

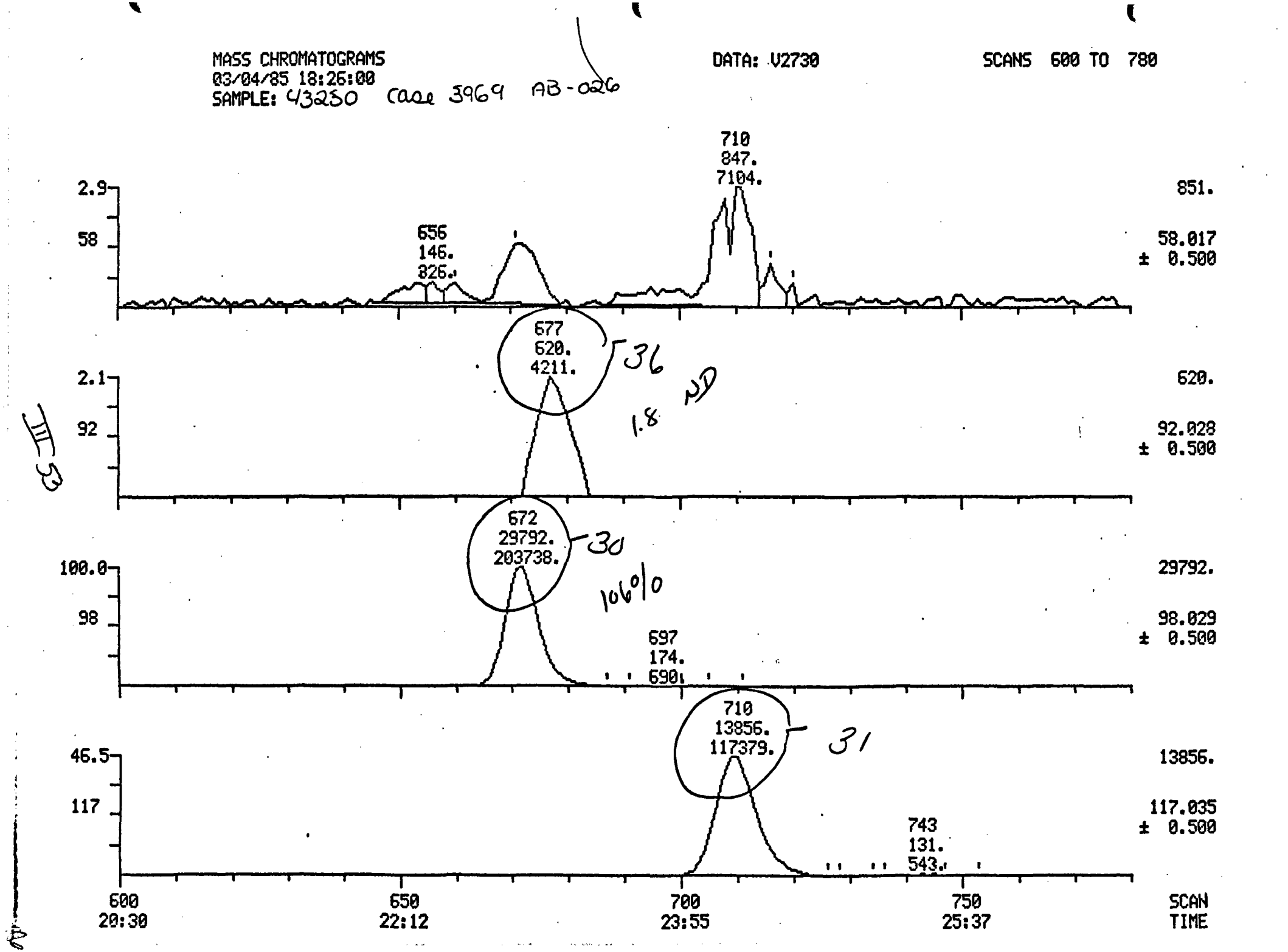

MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 Core 3969 AB-026
DATA: V2730
SCANS 450 TO 650
573
2568.
15420.
8.7
75
2568.
75.022
± 0.500
520
1560.
10866.
27
2.6 SD
5.3
78
1560.
78.023
± 0.500
0.0
106
1.
106.032
± 0.500
573
29664.
177219.
19
100.0
114
29664.
114.034
± 0.500
602
142.
605
450
15:22
500
17:05
550
18:47
600
20:30
650 SCAN
22:12 TIME

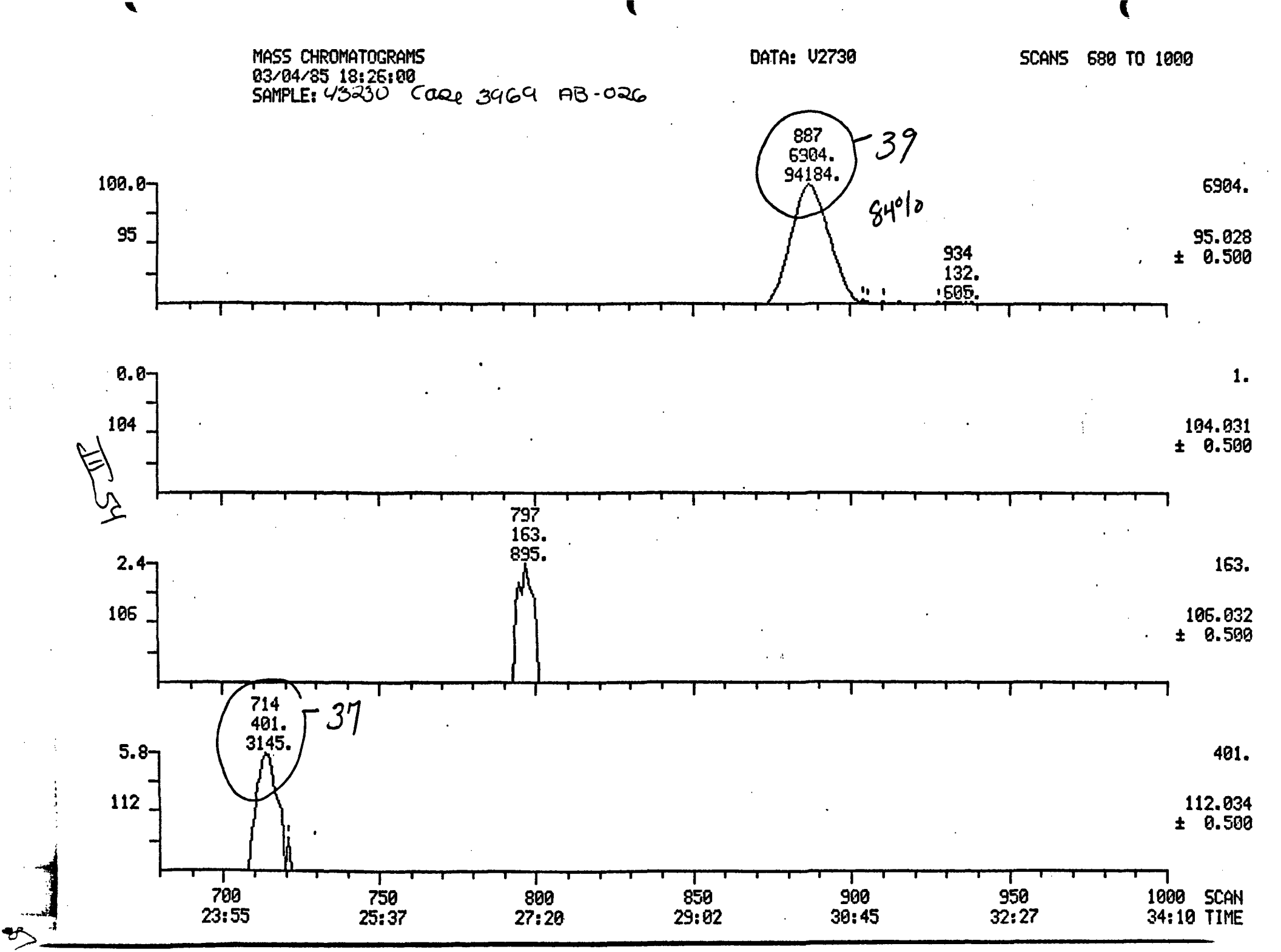
MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 Case 3969 AB-026

DATA: V2730

SCANS 500 TO 700



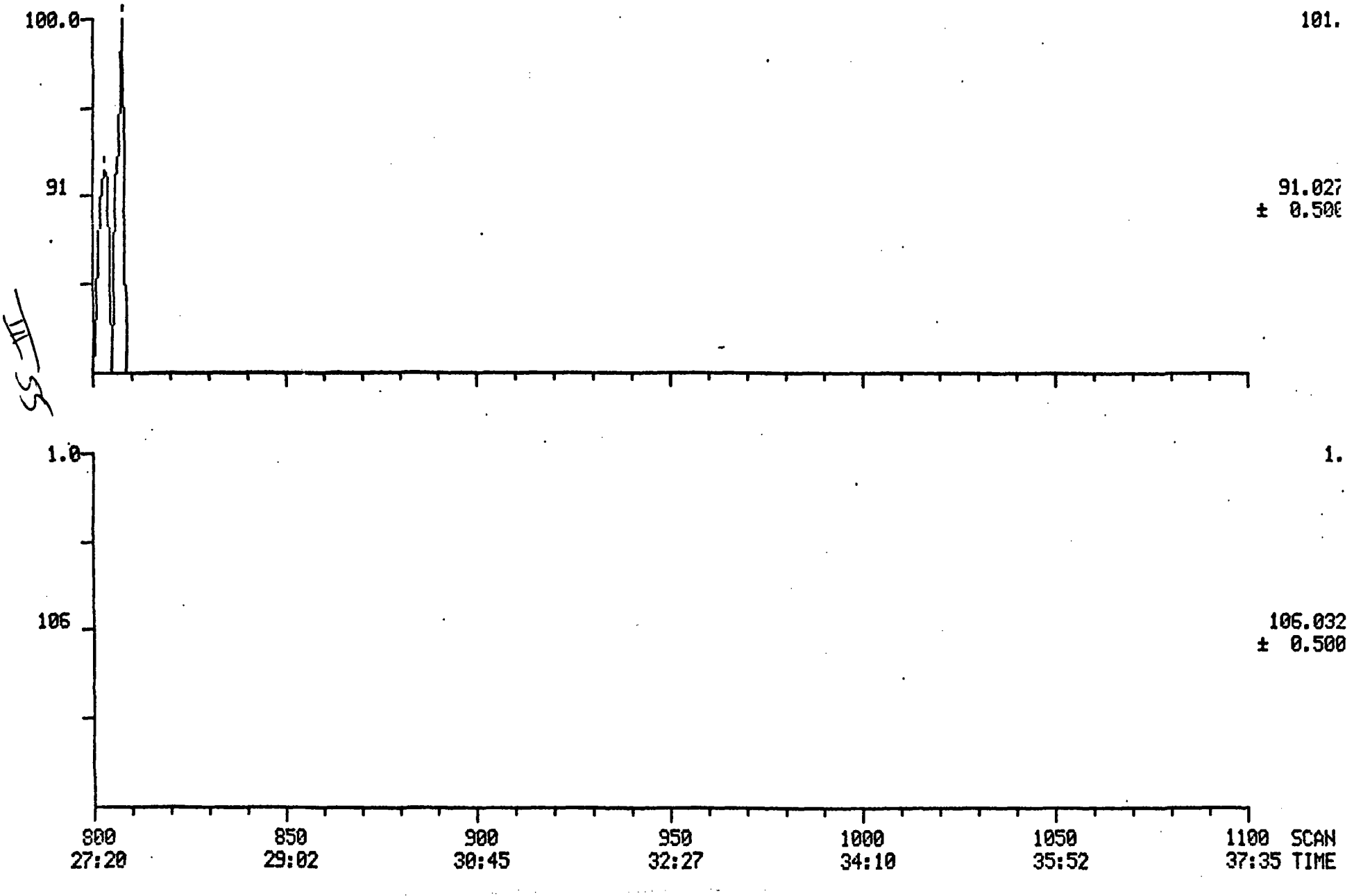

MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43250 Case 3969 AB-026
DATA: V2730
SCANS 600 TO 780
710
847.
7104.
2.9
58
656
146.
826.
851.
58.017
± 0.500
677
620.
4211.
36
1.8 ND
2.1
92
620.
92.028
± 0.500
672
29792.
203738.
30
106%
100.0
98
697
174.
690.
29792.
98.029
± 0.500
710
13856.
117379.
31
46.5
117
743
131.
543.
13856.
117.035
± 0.500
600
20:30
650
22:12
700
23:55
750
25:37
SCAN
TIME

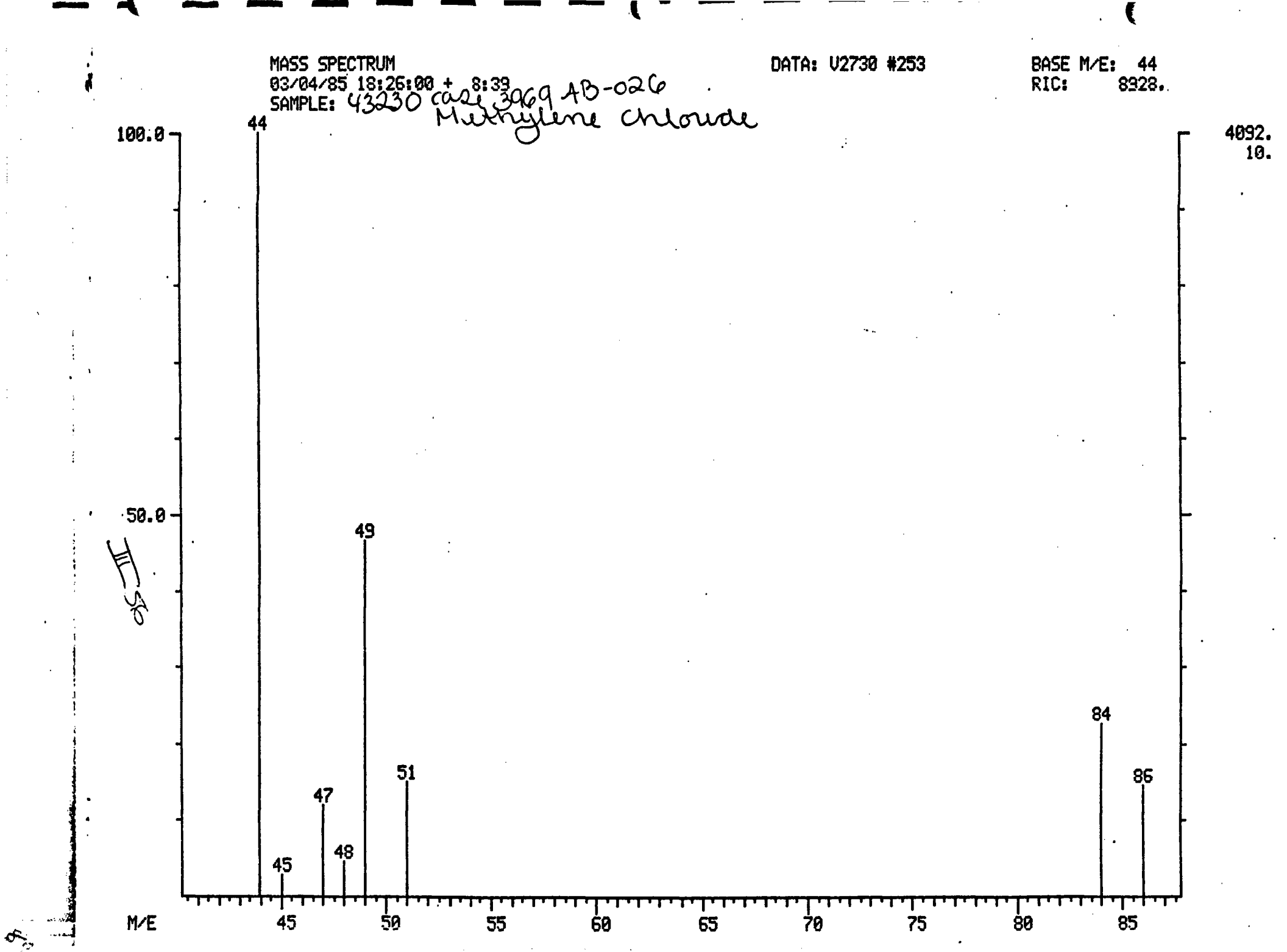

MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 Case 3969 AB-026
DATA: V2730
SCANS 680 TO 1000
887
6904.
94184.
39
84%
100.0
95
6904.
95.028
± 0.500
934
132.
605.
0.0
104
1.
104.031
± 0.500
54
797
163.
895.
2.4
106
163.
106.032
± 0.500
714
401.
3145.
37
5.8
112
401.
112.034
± 0.500
700
23:55
750
25:37
800
27:20
850
29:02
900
30:45
950
32:27
1000
34:10
SCAN
TIME

MASS CHROMATOGRAMS
03/04/85 18:26:00
SAMPLE: 43230 core 3969 AB-026

DATA: V2730

SCANS 800 TO 1100



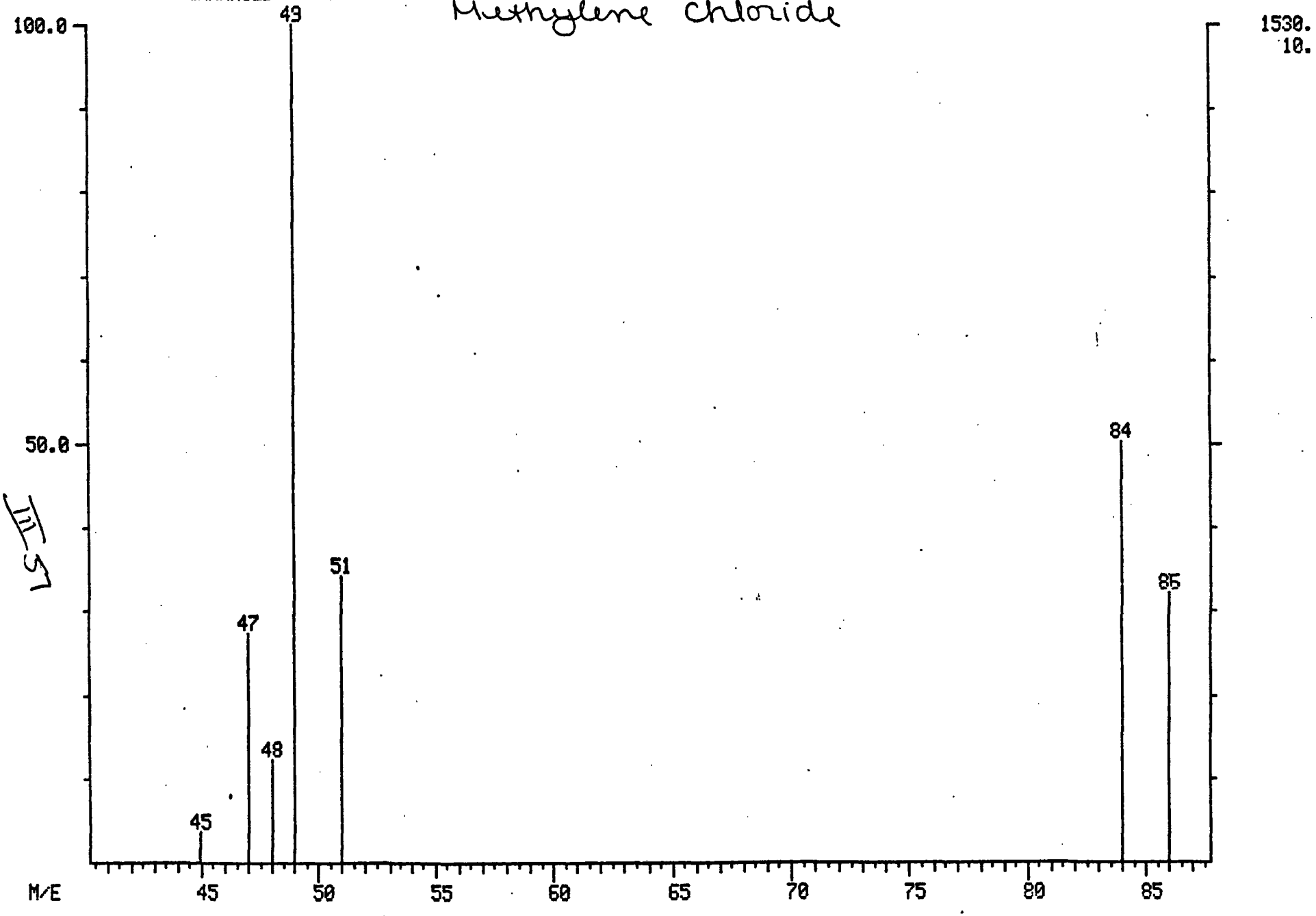

MASS SPECTRUM
03/04/85 18:26:00 + 8:39
SAMPLE: 43230 case 3969 AB-026
Methylene chloride
DATA: V2730 #253
BASE M/E: 44
RIC: 8928.
100.0
50.0
4092.
10.
44
49
51
47
48
45
84
86
M/E
45
50
55
60
65
70
75
80
85

MASS SPECTRUM
03/04/85 18:26:00 + 8:39
SAMPLE: 43230 case3969 AB-026
ENHANCED (S 15B 2N)

DATA: V2730 #253

BASE M/E: 49
RIC: 3980.

Methylene Chloride



III 57

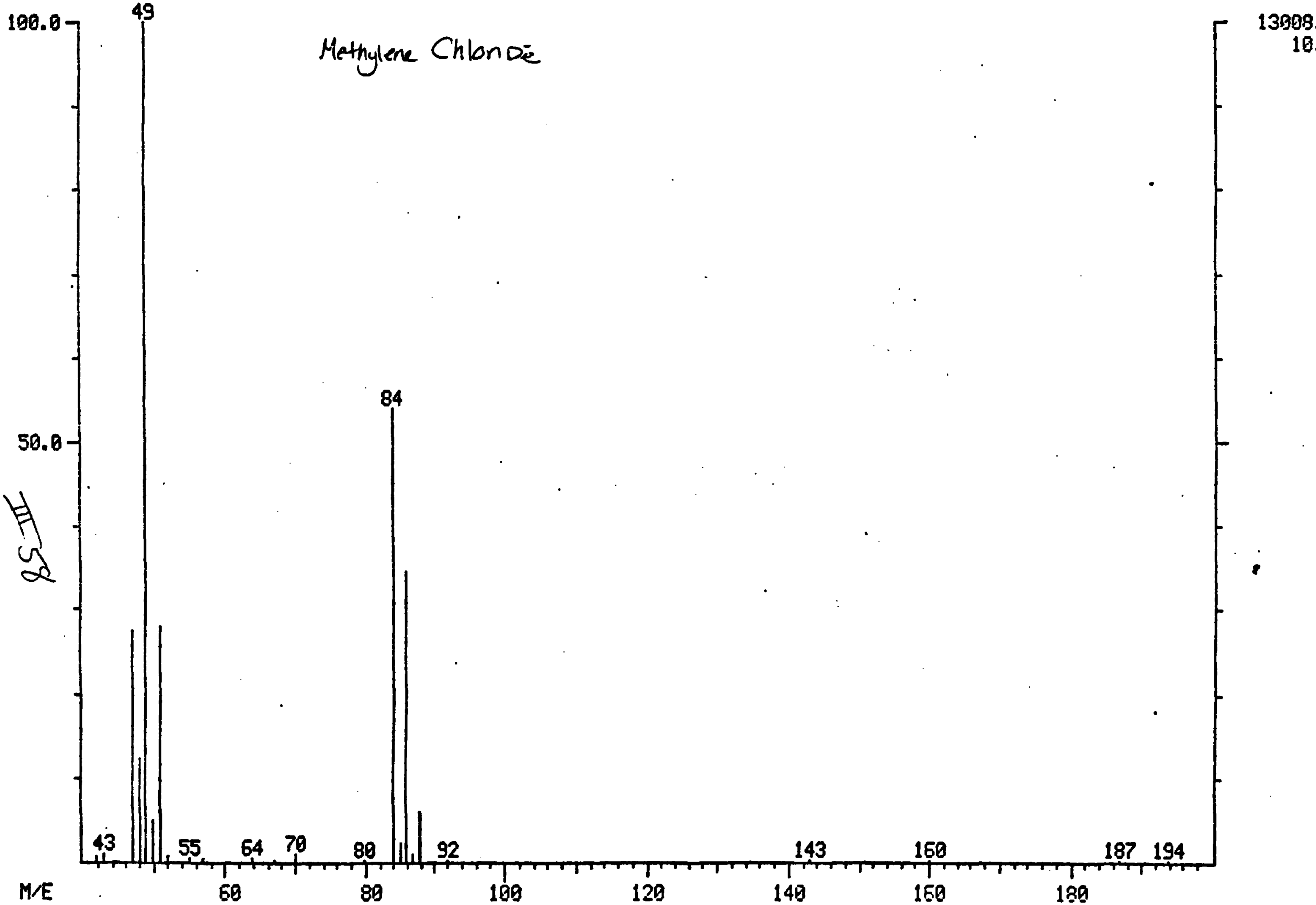
MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)

case ~~3413~~ 3969 cu 100 ppb

DATA: V2708 #248

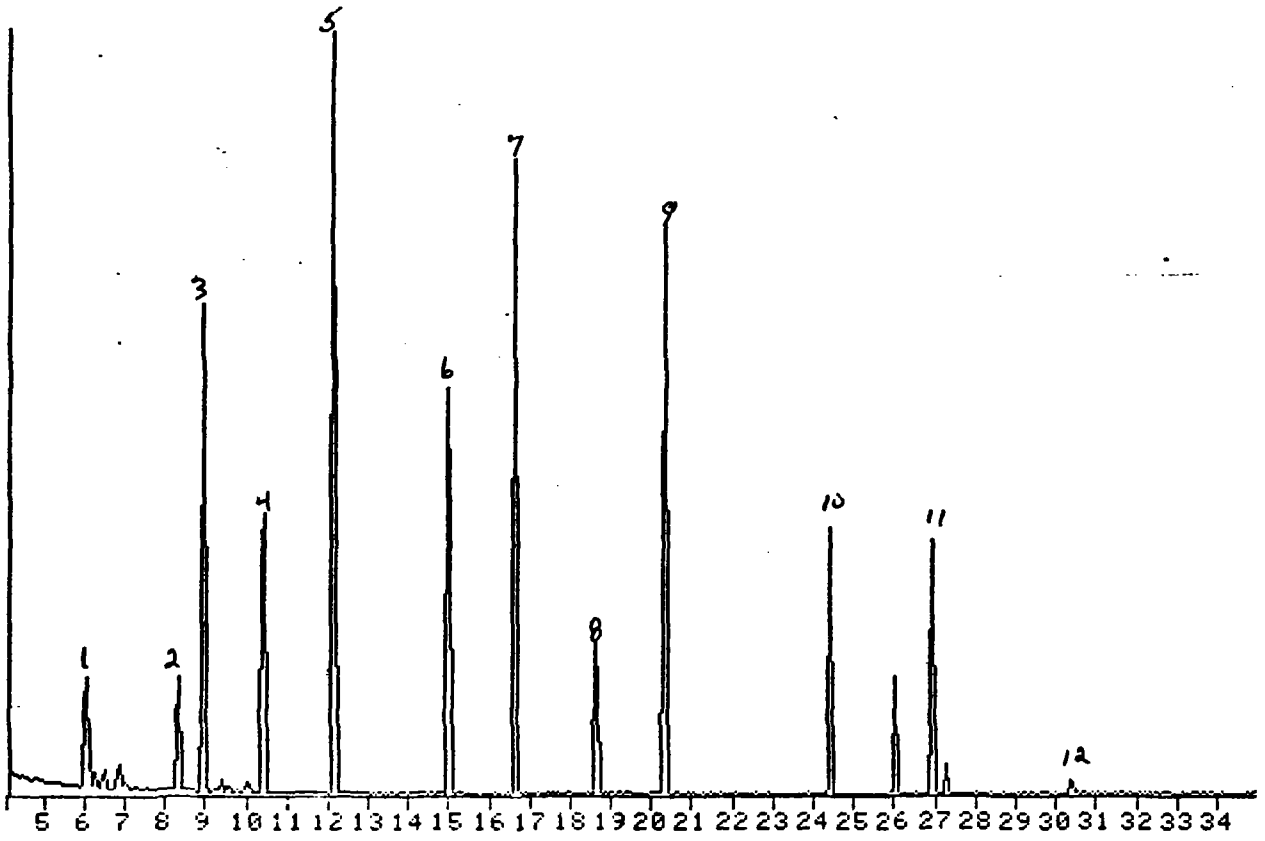
BASE M/E: 49
RIC: 36224.

Methylene Chloride



III 58

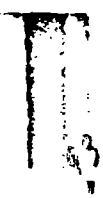
77305



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
9.9	74.0	.046	.0000	N-NITROSODIMETHYLAMINE			
8.4	93.0	.913	.0000	ANILINE			
8.5	93.0	.709	.0000	BIS(2-CHLOROETHYL)ETHER			
8.9	146.0	.591	.0000	1,3-DICHLOROBENZENE			
9.0	146.0	.594	.0000	1,4-DICHLOROBENZENE			
9.5	108.0	.395	.0000	BENZYL ALCOHOL			
9.5	146.0	.594	.0000	1,2-DICHLOROBENZENE			
9.9	45.0	.527	.0000	BIS(2-CHLOROISOPROPYL)ETHER			
10.2	70.0	.490	.0000	N-NITROSODINPROPYLAMINE			
10.2	117.0	.291	.0000	HEXACHLOROETHANE			
10.5	77.0	.716	.0000	NITROBENZENE			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.1	138.0	1.519	.0000	ISOPHORONE			
11.8	95.0	1.813	.0000	BIS(2-CHLOROETHOXY)METHANE			
12.1	180.0	2.642	.0000	1,2,4-TRICHLOROBENZENE			
12.2	129.0	1.325	.0000	NAPHTHALENE			
12.5	127.0	4.577	.0000	4-CHLOROANILINE			
12.7	225.0	1.190	.0000	HEXACHLOROBUTADIENE			
14.0	115.0	2.578	.0000	2-METHYLNAPHTHALENE			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE			
14.6	237.0	.205	.0000	HEXACHLOROCYCLOPENTADIENE			
15.2	164.0	.281	.0000	2-CHLORONAPTHALENE			
15.6	138.0	.397	.0000	2-NITROANILINE			
16.2	164.0	.083	.0000	DIMETHYL PHTHALATE			
16.3	151.0	.272	.0000	ACENAPHTHYLENE			
16.4	165.0	.228	.0000	2,6-DINITROTOLUENE			
16.7	138.0	.293	.0000	3-NITROANILINE			
16.8	152.0	.437	.0000	ACENAPHTHENE			
17.2	139.0	.490	.0000	DIBENZOFURAN			
17.3	165.0	.320	.0000	2,4-DINITROTOLUENE			
18.0	177.0	.171	.0000	DIETHYL PHTHALATE			
18.0	165.0	.820	.0000	FLUORENE			
18.1	204.0	.358	.0000	4-CHLOROPHENYLPHENYL ETHER			
18.2	138.0	.292	.0000	4-NITROANILINE			
17.2	169.0	.144	.0000	DIPHENYLAMINE			

III 60



43216 AB026 CASE 3919
3/25/85/EM BTL#19 Q14760 D14760

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	7.6931	BIS(2-ETHYLHEXYL)PHTHALATE			

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	.0000	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

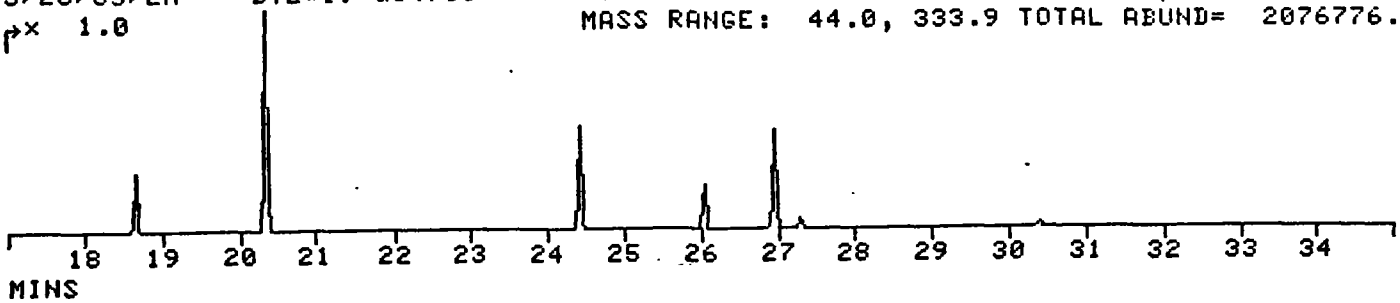
III C61

43216 AB026 CASE 3919
3/25/85/EM BTL#19 Q14760 D14760

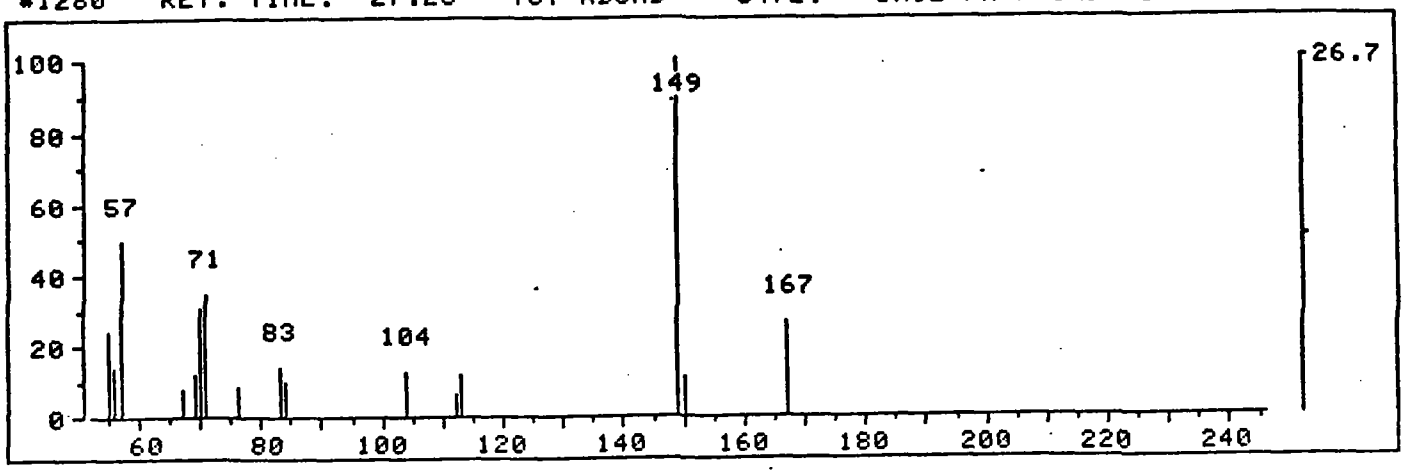
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

III 62

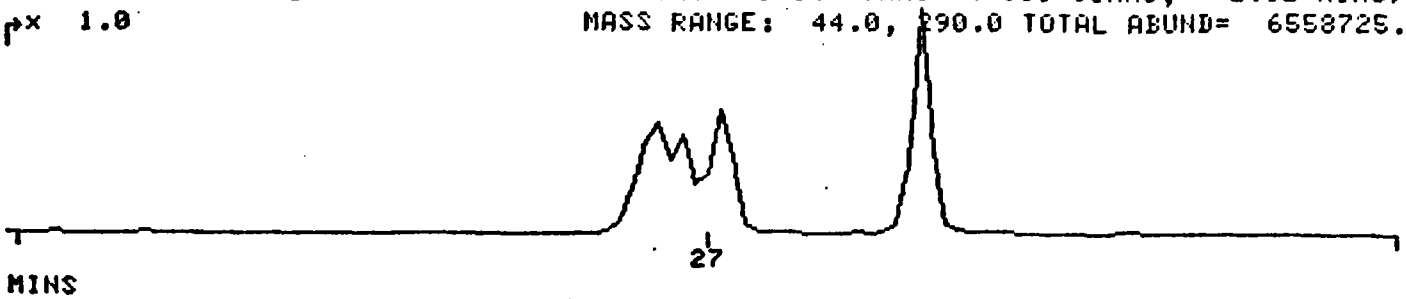
43216 AB026 CASE 3919
3/25/85/EM BTL#19 Q14760 FRN 14760, CRN 10
D14760 1706 SCANS (994 SCANS, 18.02 MINS)
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2076776.



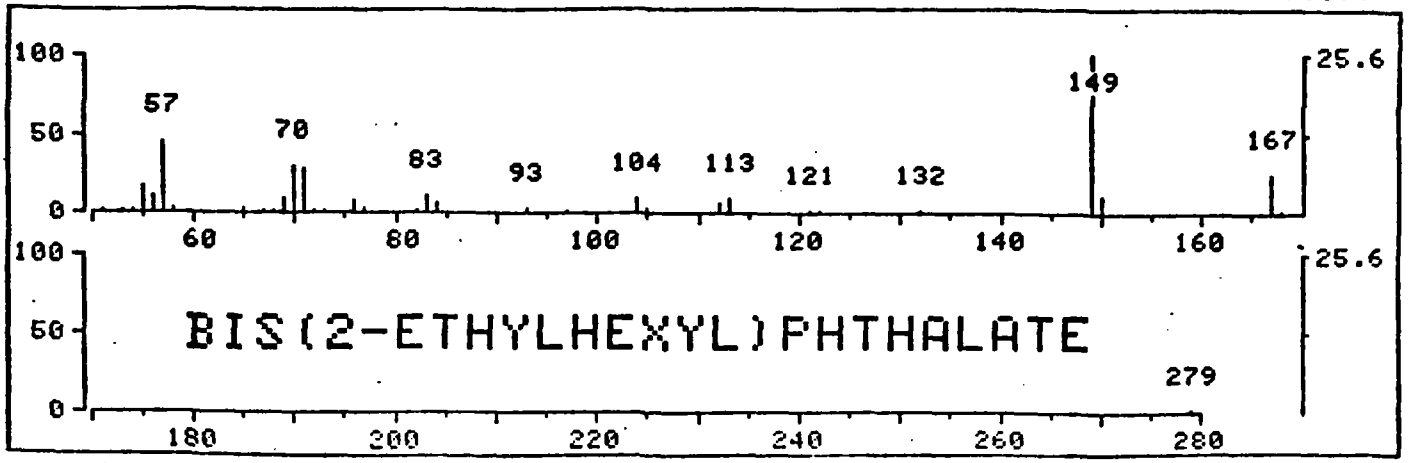
*1280 RET. TIME: 27.28 TOT ABUND= 3472. BASE PK/ABUND: 149.1/ 926.



80BN
3/25/85/EM BTL#8 Q14749 FRN 14749, CRN 7
D14749 1704 SCANS (111 SCANS, 2.02 MINS)
MASS RANGE: 44.0, 390.0 TOTAL ABUND= 6558725.

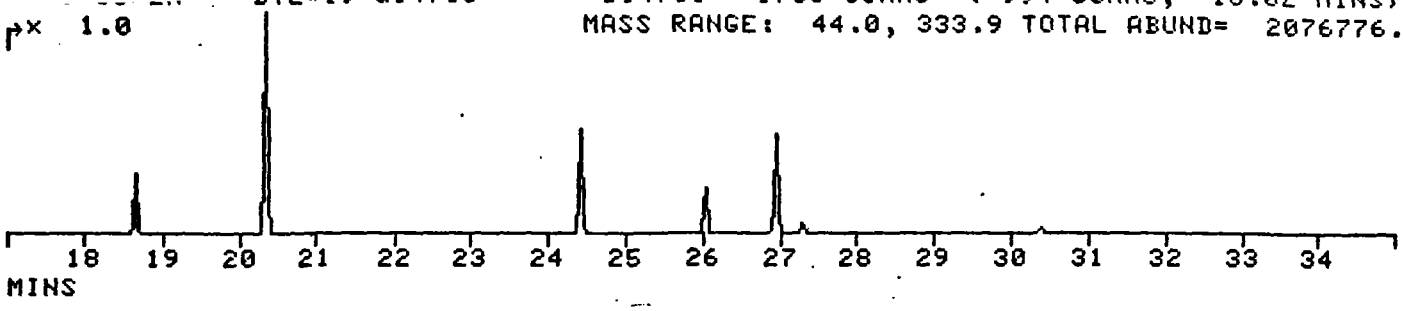


*1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.

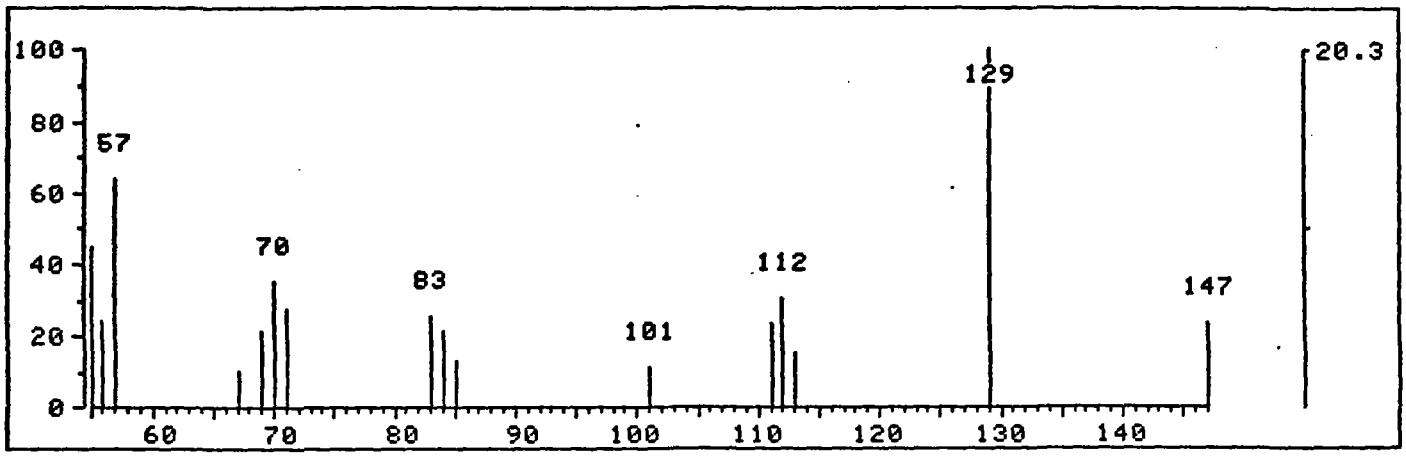


III-63

D14760 1706 SCANS (994 SCANS, 18.02 MINS)
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2076776.



#1212 RET. TIME: 26.05 TOT ABUND= 2403. BASE PK/ABUND: 129.1/ 487.



needs copy of soap match

III-64

Entry	Time	Mass	Area	%
1	27.0	239.7	15994.	100.0
2	26.0	TI	21701.	135.7

CALCULATE % ON ENTRY #:

III-65

Date 4/1/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

Case # 3969

Sample I.D. 43216/ AB026 HP 5880
Run # 25 Bottle # 25

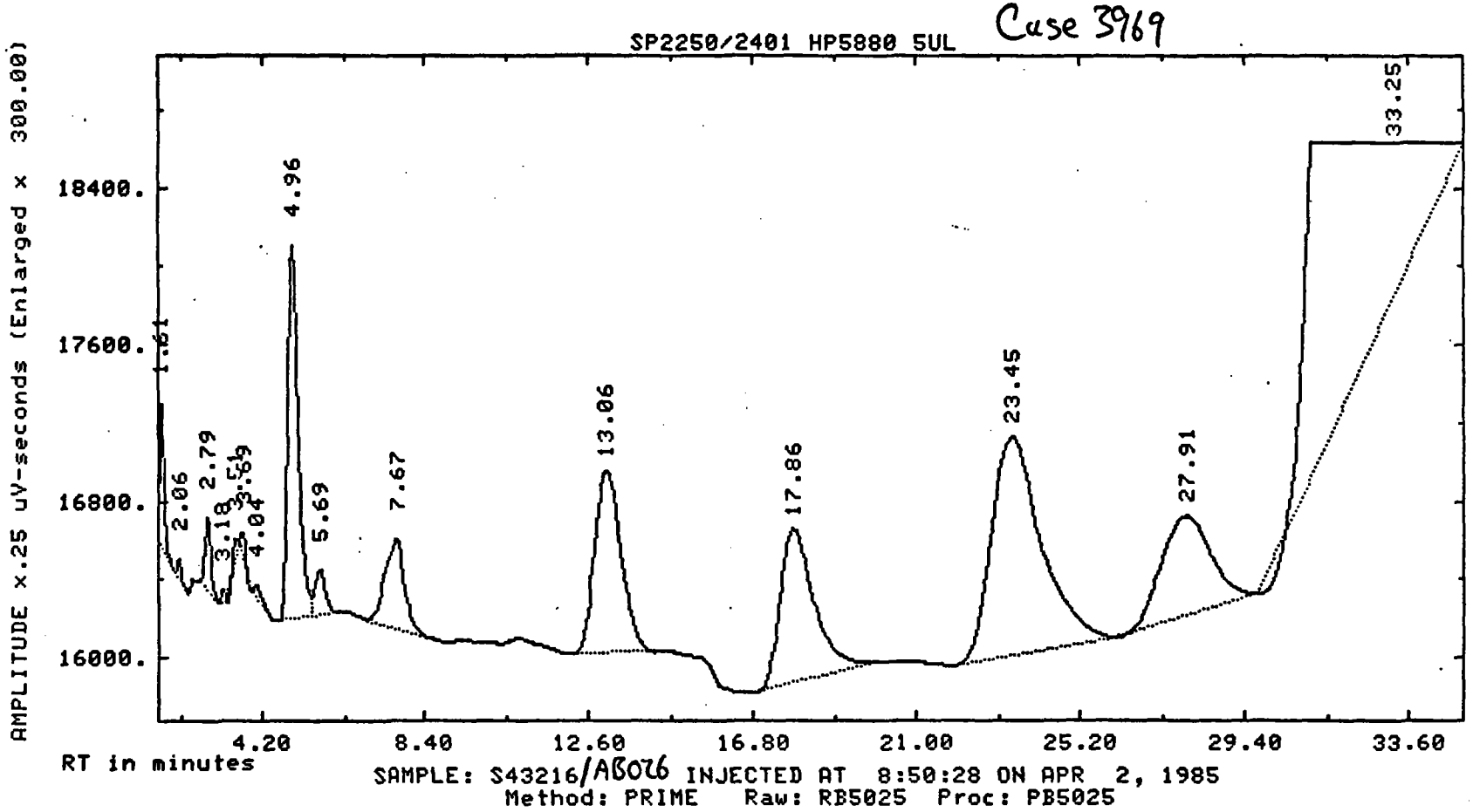
RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
3.18	Heptachlor	0.245	<5.0	x 10 ÷ 1000 =	<0.05	
~~7.67~~	~~Endo I~~	~~8.68~~	~~<10.0 x~~	~~10 ÷ 1000 =~~	~~<0.10~~	~~BL~~
7.67	Endo I	8.68	<5.0	x 10 ÷ 1000 =	<0.05	

T window ?

GCA CORPORATION Technology Division

III-66

Case 3969


SP2250/2401 HP5880 5UL
AMPLITUDE x.25 uV-seconds (Enlarged x 300.00)
18400.
17600.
16800.
16000.
1.61
2.06
2.79
3.18
3.51
3.69
4.04
4.96
5.69
7.67
13.06
17.86
23.45
27.91
33.25
4.20
8.40
12.60
16.80
21.00
25.20
29.40
33.60
RT in minutes
SAMPLE: S43216/AB026 INJECTED AT 8:50:28 ON APR 2, 1985
Method: PRIME Raw: RB5025 Proc: PB5025

READY
*LI,P,PB5025

Case 3969

PROCESSED DATA FILE: PB5025 ON CRN 21

APR 2, 1985 10:34:35

REPORT: 168 CHANNEL: 2 # PEAKS: -18 SP2250/2401 HPS880 SUL

PEAK	RT	ITH	FACTOR	AREA		AREA %	NAME
1	1.36	0.00	1.00000	108	BV	.002	
2	1.44	0.00	1.00000	165	VV	.004	
3	1.61	0.00	1.00000	3015	VB	.064	
4	2.06	0.00	1.00000	328	BB	.007	
5	2.79	0.00	1.00000	2026	BV	.043	
6	3.18	0.00	1.00000	245	VV	.005	
7	3.51	0.00	1.00000	310	VB	.007	
8	3.69	0.00	1.00000	558	BV	.013	
9	4.04	0.00	1.00000	375	VB	.008	
10	4.56	0.00	1.00000	17826	BV	.381	
11	5.69	0.00	1.00000	2105	VB	.045	
12	7.67	0.00	1.00000	8677	BB	.184	
13	13.06	0.00	1.00000	21917	BB	.465	
14	17.86	0.00	1.00000	23879	BB	.507	
15	23.45	0.00	1.00000	49804	BV	1.057	
16	27.91	0.00	1.00000	22486	VV	.477	
17	33.25	0.00	1.00000	4436032	VV	94.162	
18	39.24	0.00	1.00000	121057	VF	2.570	

TOTAL AREA = 4711053 TOTAL AREA % = 100.000

SAMPLE: S43216/AB026 INJECTED AT 8:50:28 ON APR 2, 1985

ZERO METHOD: PRIME SEQ: SM03A SUBSQ/SAMP: 1 / 25 BTL: 25

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	YES

ACTUAL RUN TIME: 40.017 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: RB5025 PARAM FILES= METHOD: SEQ:

DONE
READY

III C8

ORGANICS ANALYSIS REPORT

AB027

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:
GCA
213 Burlington Rd
Bedford, MA 01730
Attn: Gary Hunt
Transfer
Ship To:

⑤ Regional Office: I
Sampling Personnel:
John Williams (Name)
(617) 742-5151 (Phone)
Sampling Date:
2/28/05 (Begin) 2/28/05 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: Date Rec'd: 3/1/05 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)	2	80 oz	No sample tags
Water (VOA)	2	40 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑦ Shipping Information
Hand-carried
Name of Carrier
Date Shipped:
Airbill Number:

⑧ Sample Description
___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) ___

⑨ Sample Location

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MA025

LAB FILE COPY

III-69

AB-027

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: GCA
Sample ID No: 43231
Specific Matrix: water
Release Authorized By:

Case No: 3969
QC Report No: 3969
Contract No: 68-01-6161
Date Sample Received: 3/7/85

AB-RI

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3/4/85
Date Analyzed: 3/4/85
Conc/Dil Factor: 1 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

Chem spikes

R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	7, 2B
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1 Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	10u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3 Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3 Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4 Methyl 2 Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	* See Ca

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definitions listed here must be explained.

* See narrative

Value If the result is a value greater than or equal to the detection limit report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on instrument, concentration and dilution actions. (This is not to represent the instrument detection limit.) The letter should read U. Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and their application consistently applied to the data summary report.

III-70

103

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB027

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0 l → 1.0 ml

Chem spec R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4 Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB027

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 4/1/85

Conc/Dil Factor: 1

CTMM 5/15/85

NA = Not Analyzed

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

JM Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

72

AB 027

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Compounds Found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

III 73

A/BA

P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

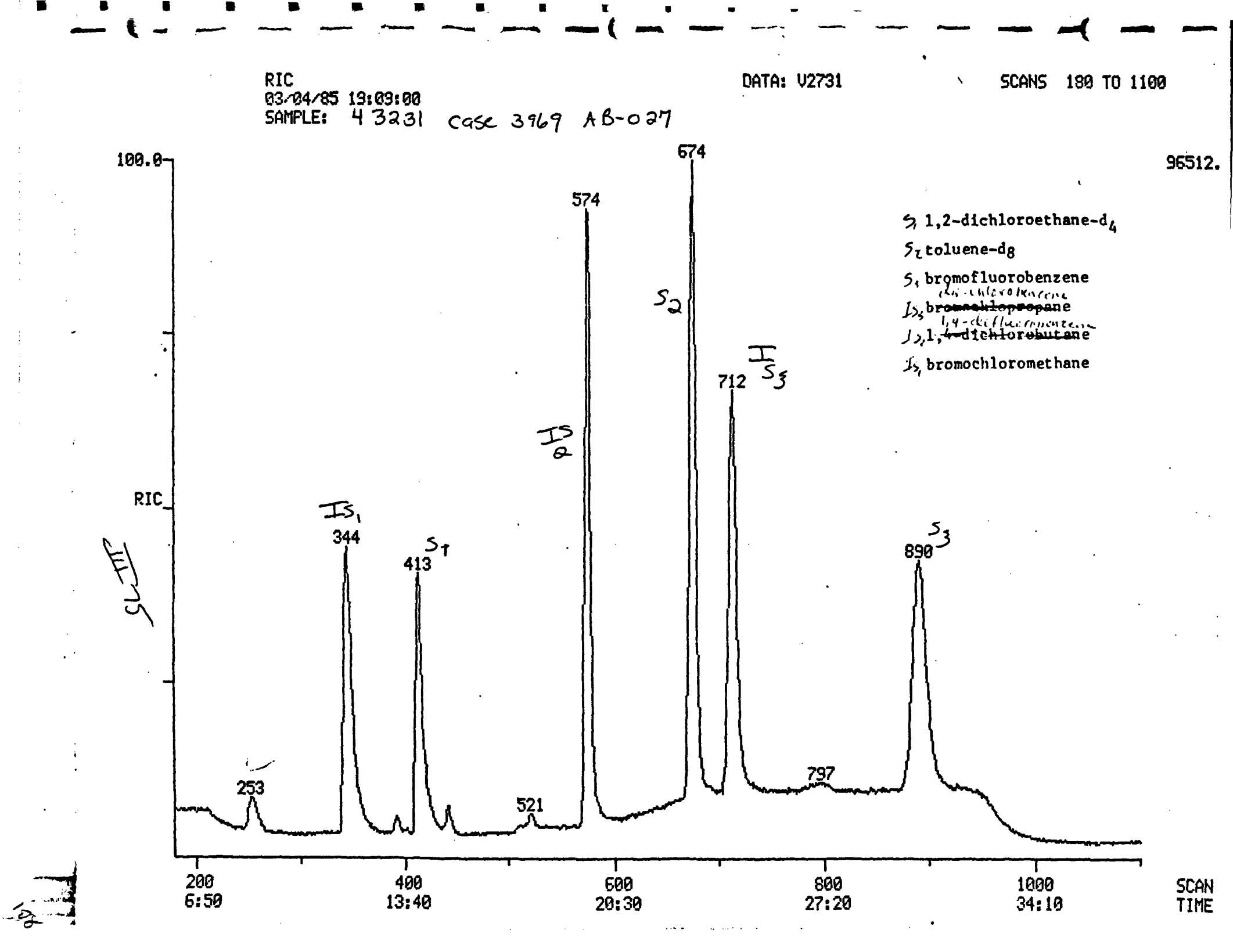
AB 027

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	BN/A	26.0	164 J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

74


RIC
03/04/85 19:09:00
SAMPLE: 43231 case 3969 AB-027
DATA: V2731
SCANS 180 TO 1100
100.0
96512.
RIC
674
574
712
344
413
890
253
521
797
IS1
S1
IS2
S2
S3
S3
1,2-dichloroethane-d4
toluene-d8
bromofluorobenzene
bromochloropropane
1,4-difluorobenzene
1,4-dichlorobutane
bromochloromethane
200
6:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

[illegible]
[illegible] 3454 CH
MPLE [illegible] CASE [illegible]
SUBMITTED BY: ANALYST:

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	BROMOCHLOROMETHANE(INTERNAL STANDARD #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	CARBON DISULFIDE
8	ACETONE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS-1,2-DICHLOROETHENE
12	CHLOROFORM
13	D4-1,2-DICHLOROETHANE (SURR #1)
14	1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	CARBON TETRACHLORIDE
17	VINYL ACETATE
18	2-BUTANONE
19	1,4-DIFLUOROBENZENE(I.S #2)
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS-1,3-DICHLOROPROPENE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	CIS-1,3-DICHLOROPROPENE
27	BENZENE
28	2-CHLOROETHYL VINYL ETHER
29	BROMOFORM
30	D8-TOLUENE(SURR #2)
31	[illegible]
32	TETRACHLOROETHENE
33	1,1,2,2-TETRACHLOROETHANE
34	[illegible]
35	2-HEXANONE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	[illegible]
40	STYRENE
41	Xylene

NO	NAME	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	1[illegible]	592	[illegible]	1	1.000	A [illegible]	17[illegible]	50.000 UG/L	2.[illegible]
2	50	73	[illegible]	1	0.205	A [illegible]	5[illegible]	50.000 UG/L	2.[illegible]
3	9[illegible]	127	[illegible]	1	0.561	A BB	57372	50.000 UG/L	2.[illegible]
4	62	163	[illegible]	1	0.463	A BB	46[illegible]	50.000 UG/L	2.[illegible]

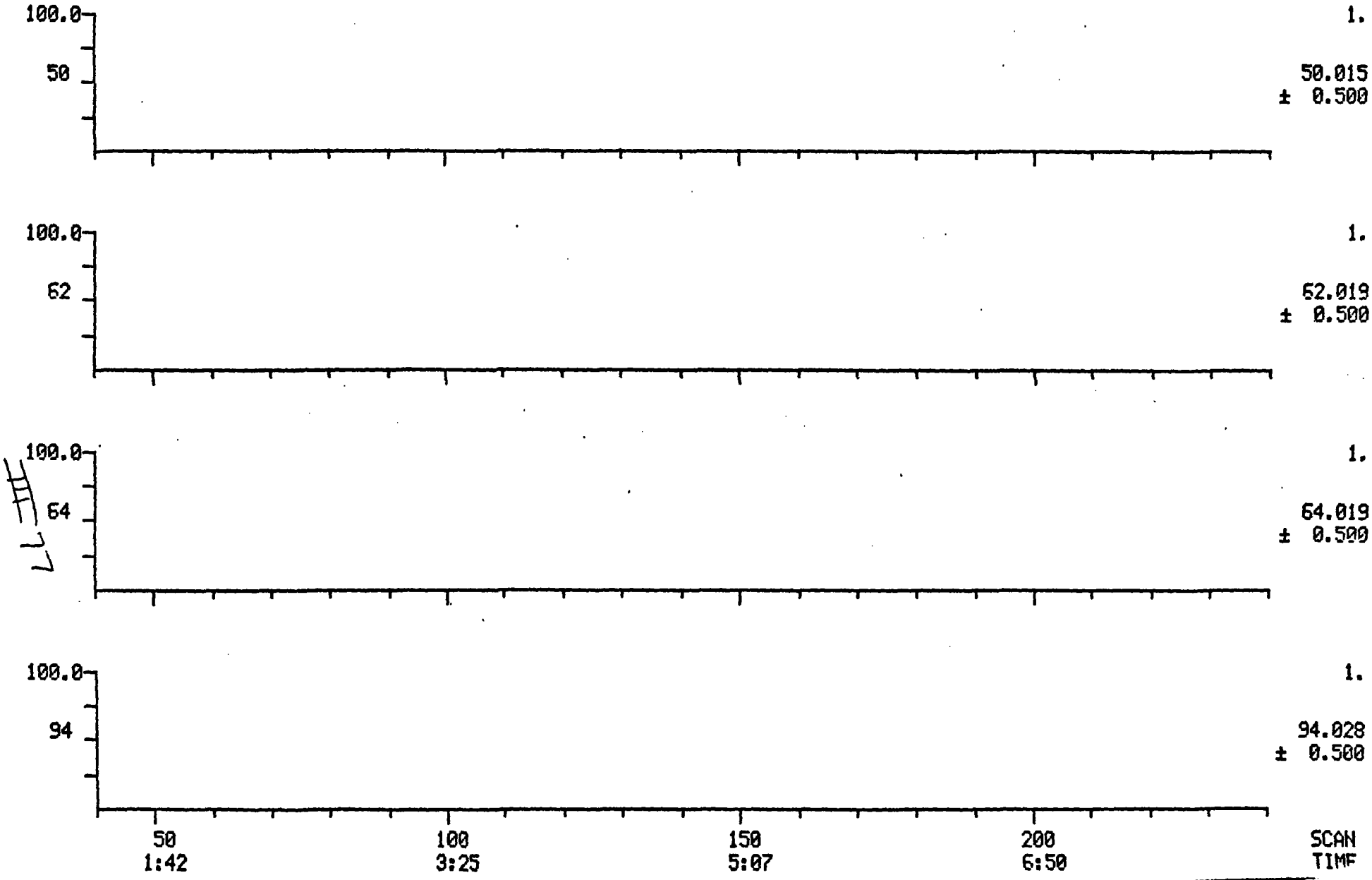
III 76

109

MASS CHROMATOGRAMS
03/04/85 19:09:00
SAMPLE: 43231 case 3969 AB-027

DATA: V2731

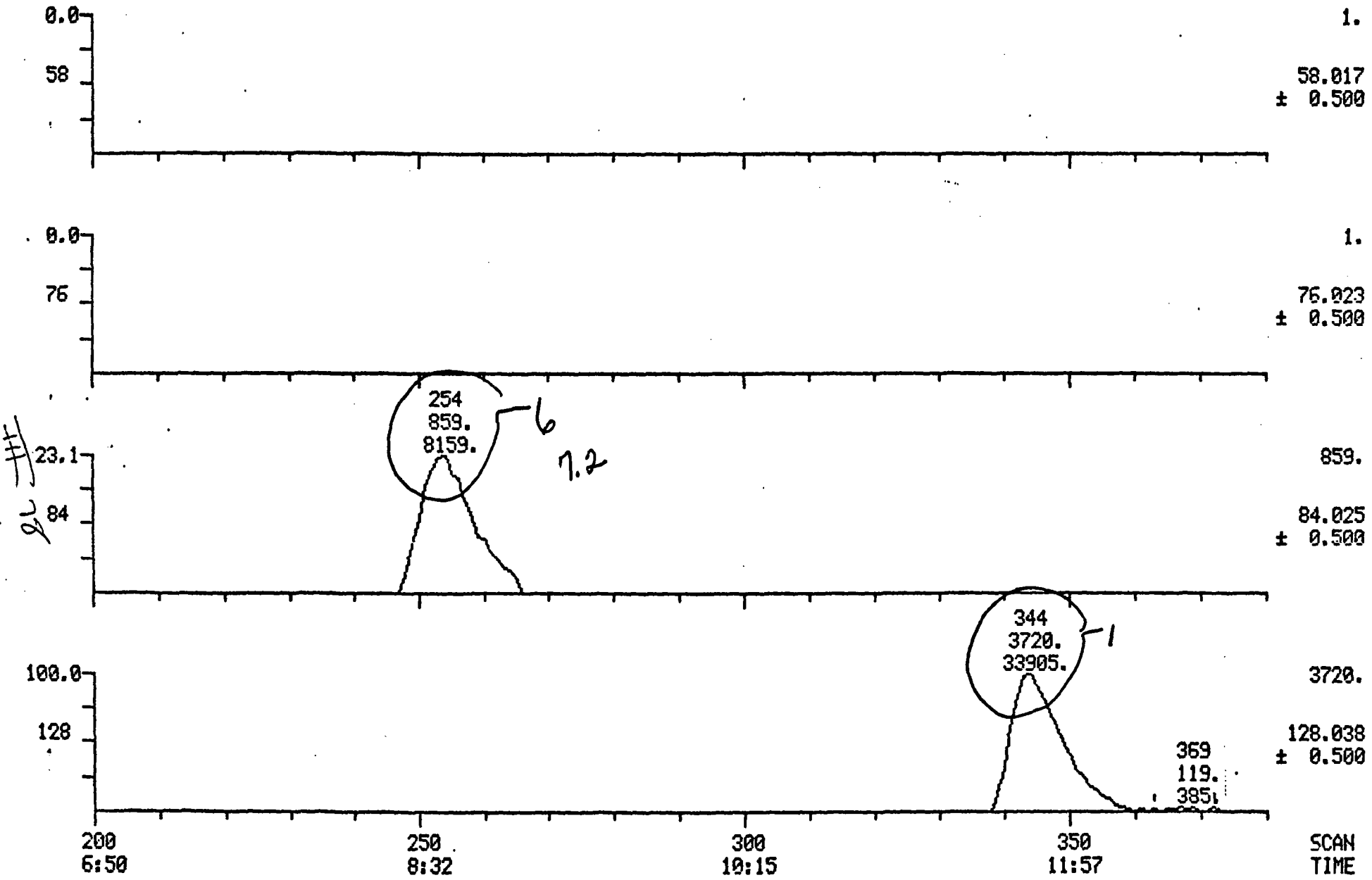
SCANS 40 TO 240

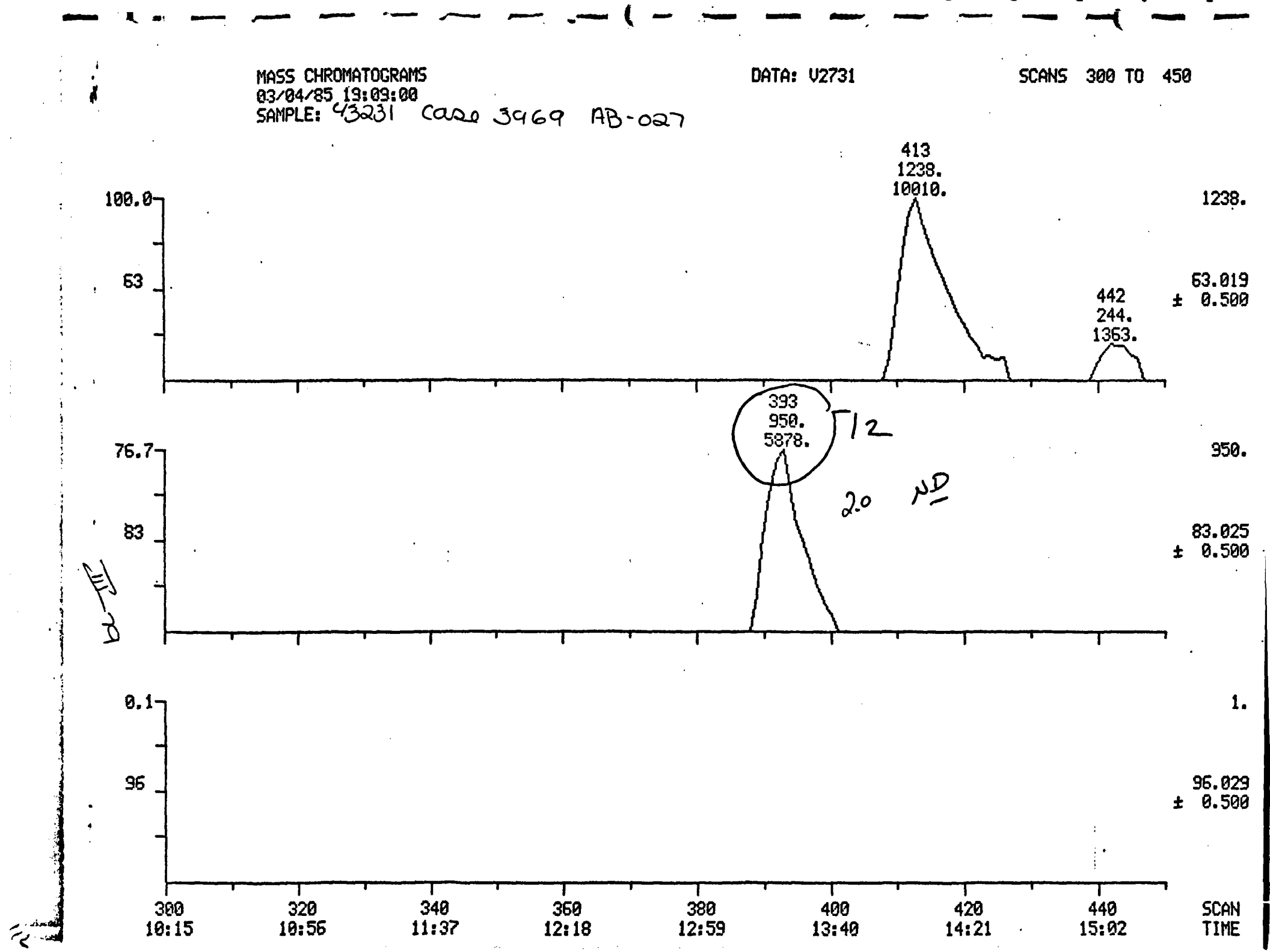


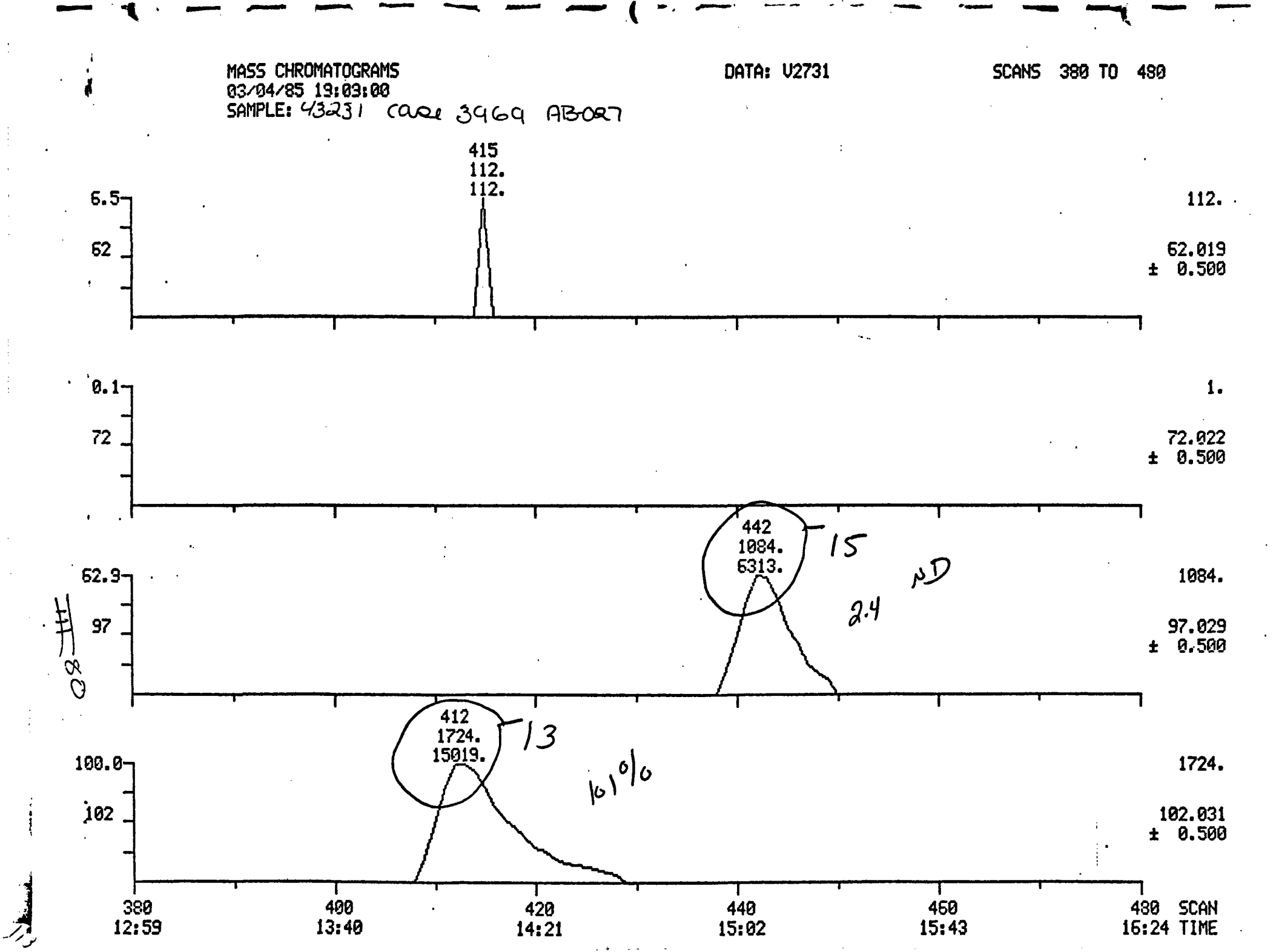
MASS CHROMATOGRAMS
03/04/85 19:09:00
SAMPLE: 43231 case 3969 AB-027

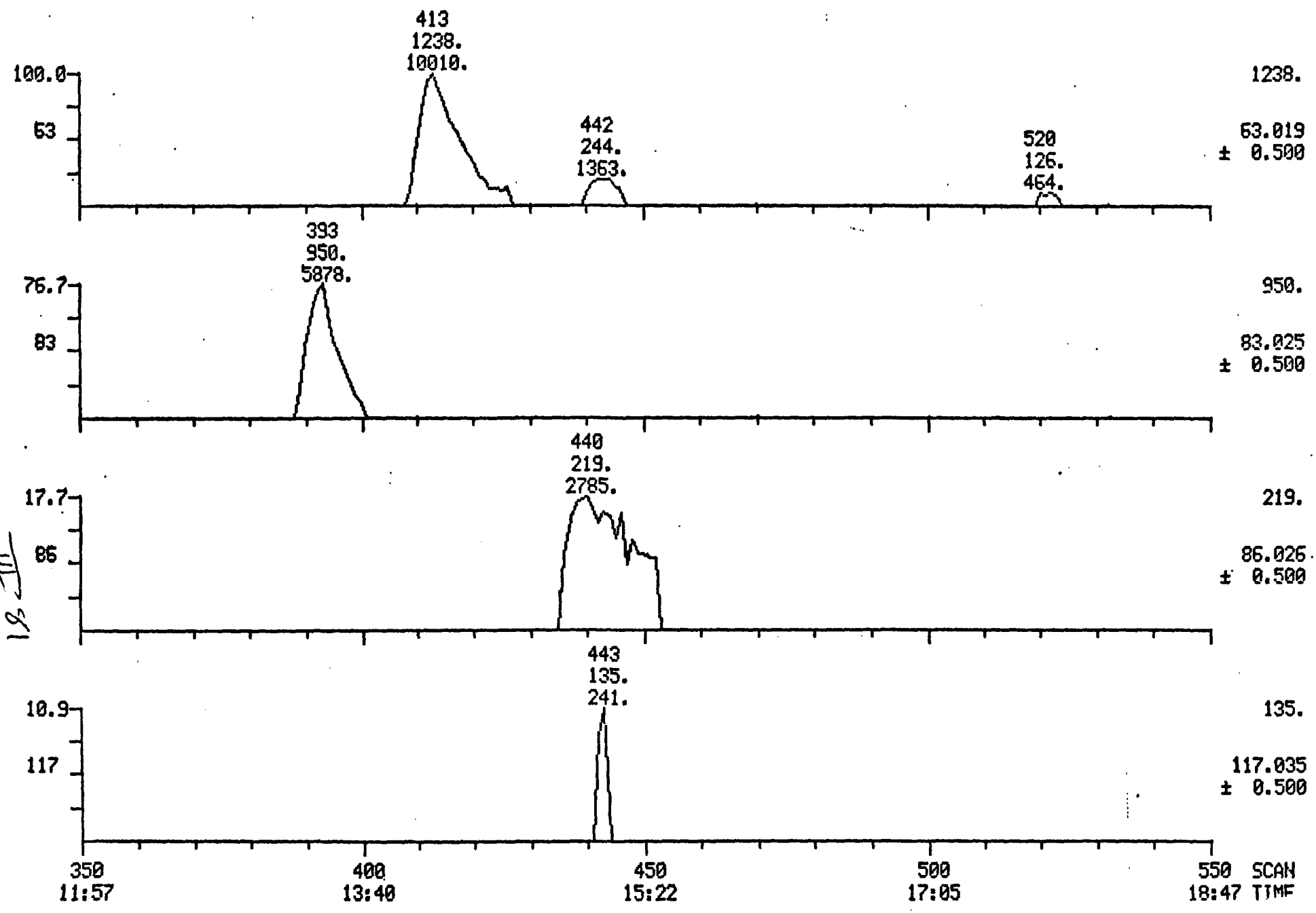
DATA: V2731

SCANS 200 TO 380




MASS CHROMATOGRAMS
03/04/85 19:09:00
SAMPLE: 43231 Case 3469 AB-027
DATA: V2731
SCANS 300 TO 450
413
1238.
10010.
442
244.
1363.
393
950.
5878.
12
2.0 ND
TR-9
100.0
63
76.7
83
0.1
96
1238.
63.019
± 0.500
950.
83.025
± 0.500
1.
96.029
± 0.500
300
10:15
320
10:56
340
11:37
360
12:18
380
12:59
400
13:40
420
14:21
440
15:02
SCAN
TIME

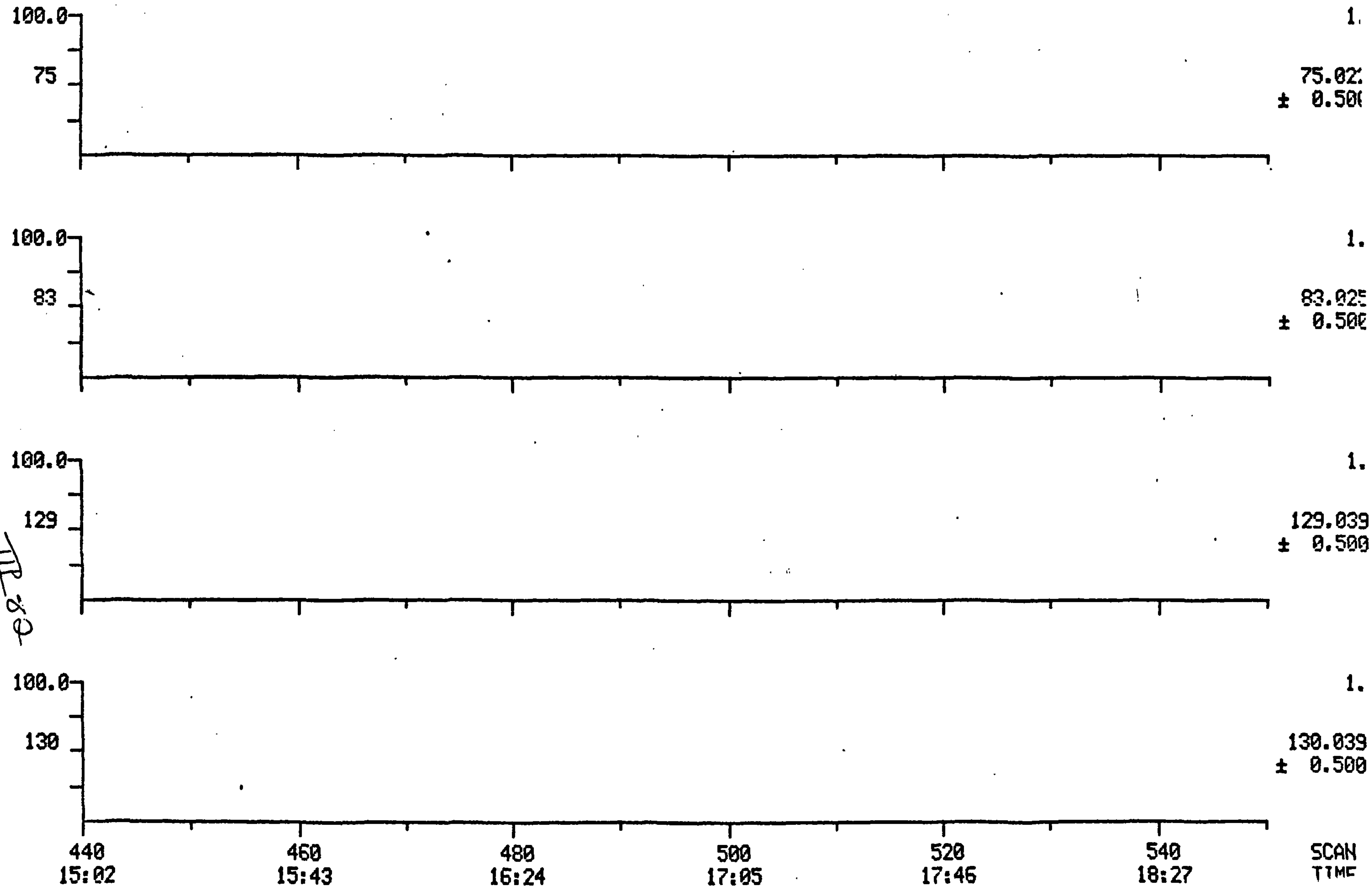

MASS CHROMATOGRAMS
03/04/85 19:03:00
SAMPLE: 43231 CARE 3969 ABORT
DATA: V2731
SCANS 380 TO 480
415
112.
112.
6.5
62
112.
62.019
± 0.500
0.1
72
1.
72.022
± 0.500
442
1084.
6313.
15
ND
2.4
62.9
97
1084.
97.029
± 0.500
412
1724.
15019.
13
61%
100.0
102
1724.
102.031
± 0.500
380
12:59
400
13:40
420
14:21
440
15:02
460
15:43
480
16:24
SCAN
TIME

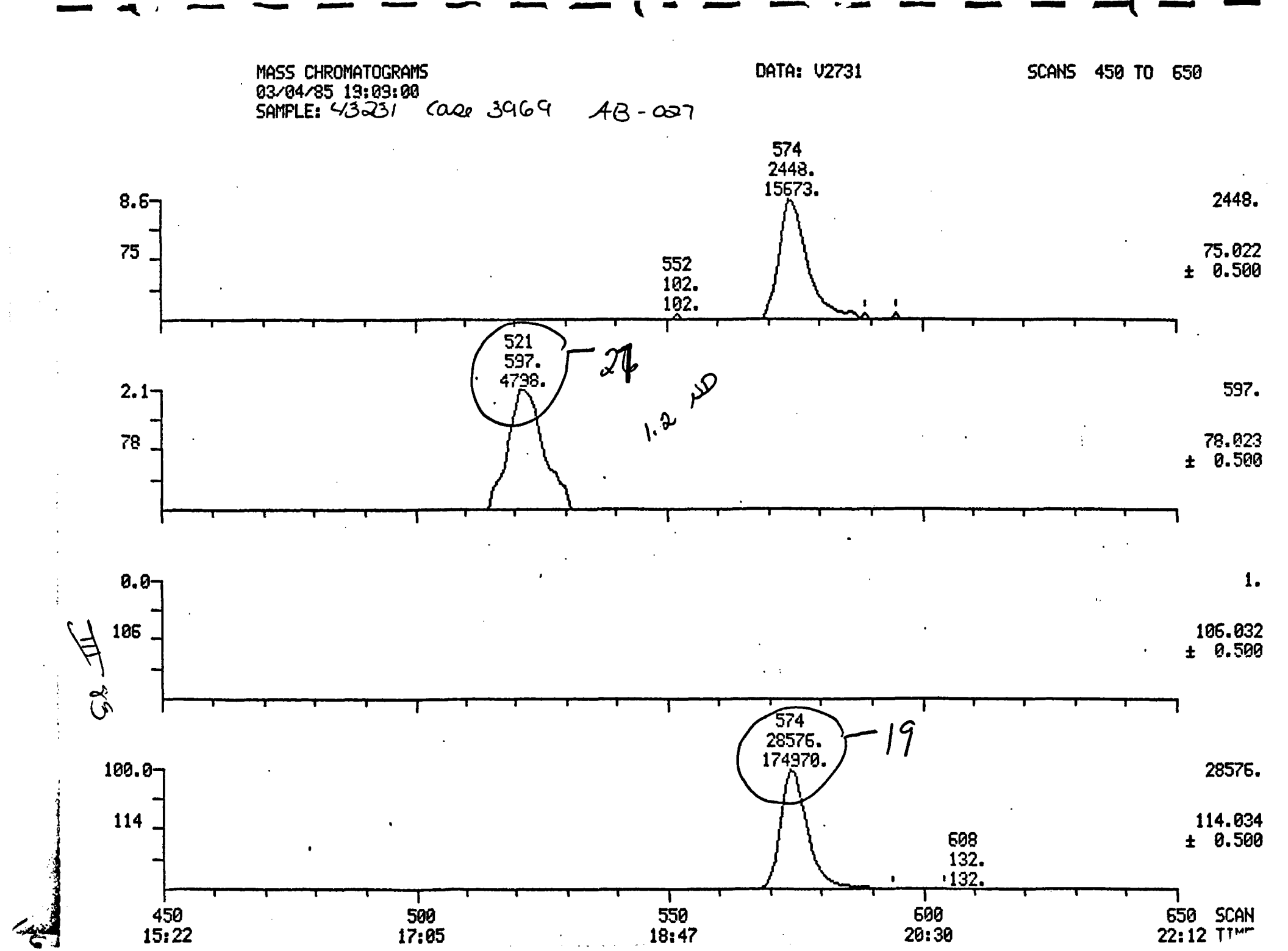

MASS CHROMATOGRAMS
03/04/85 13:03:00
SAMPLE: 43231 Case 3969 AB-027
DATA: V2731
SCANS 350 TO 550
413
1238.
10010.
442
244.
1363.
520
126.
464.
100.0
63
1238.
63.019
± 0.500
393
950.
5878.
76.7
83
950.
83.025
± 0.500
440
219.
2785.
17.7
86
219.
86.026
± 0.500
443
135.
241.
10.9
117
135.
117.035
± 0.500
350
11:57
400
13:40
450
15:22
500
17:05
550 SCAN
18:47 TIME

MASS CHROMATOGRAMS
03/04/85 13:09:00
SAMPLE: 43231 case 3969 AB-027

DATA: V2731

SCANS 440 TO 550

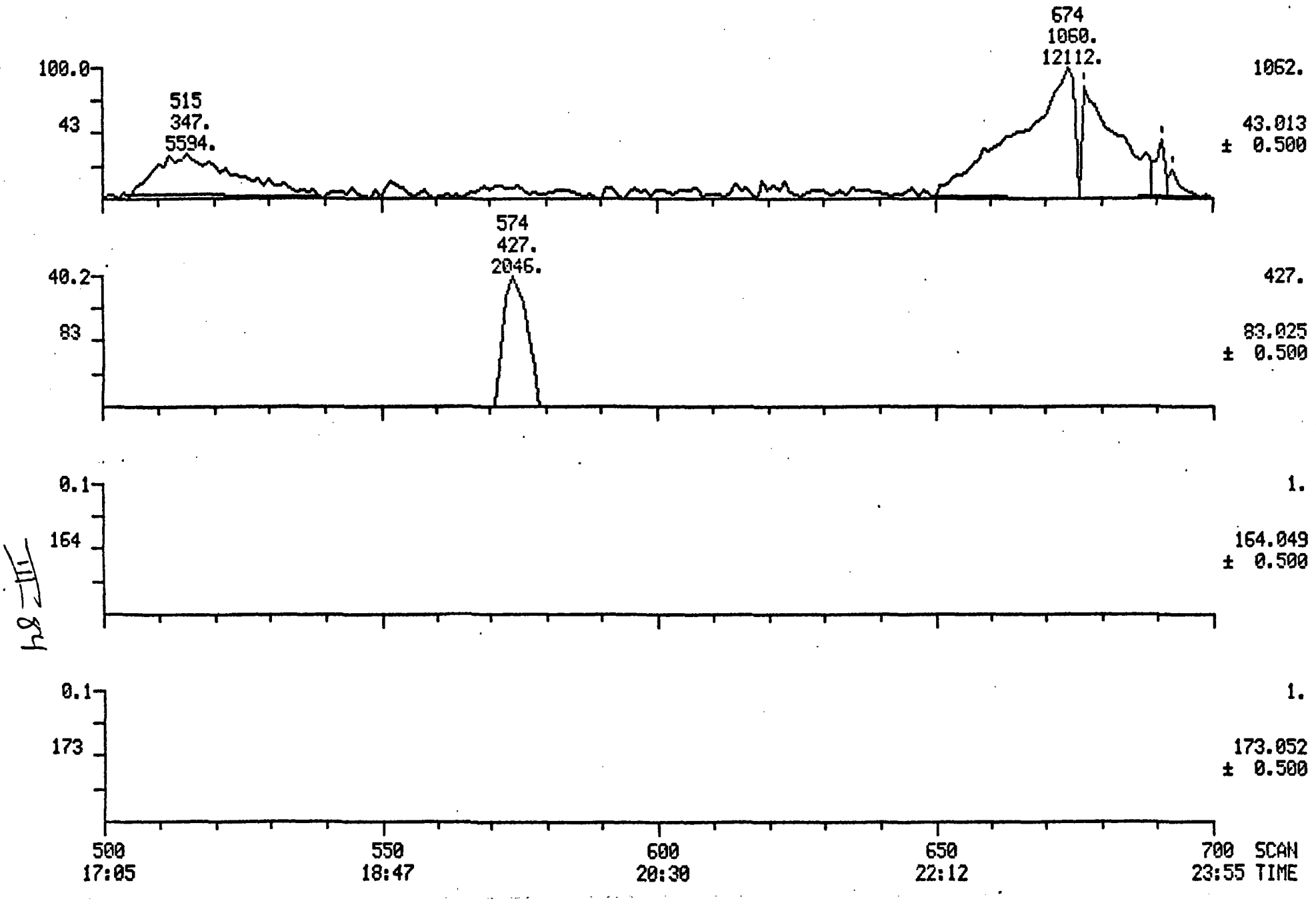



MASS CHROMATOGRAMS
03/04/85 19:09:00
SAMPLE: 43231 Case 3969 AB-027
DATA: V2731
SCANS 450 TO 650
574
2448.
15673.
8.6
75
552
102.
102.
2448.
75.022
± 0.500
521
597.
4798.
27
1.2 SD
2.1
78
597.
78.023
± 0.500
0.0
106
1.
106.032
± 0.500
574
28576.
174970.
19
100.0
114
608
132.
132.
28576.
114.034
± 0.500
450
15:22
500
17:05
550
18:47
600
20:30
650 SCAN
22:12 TIME

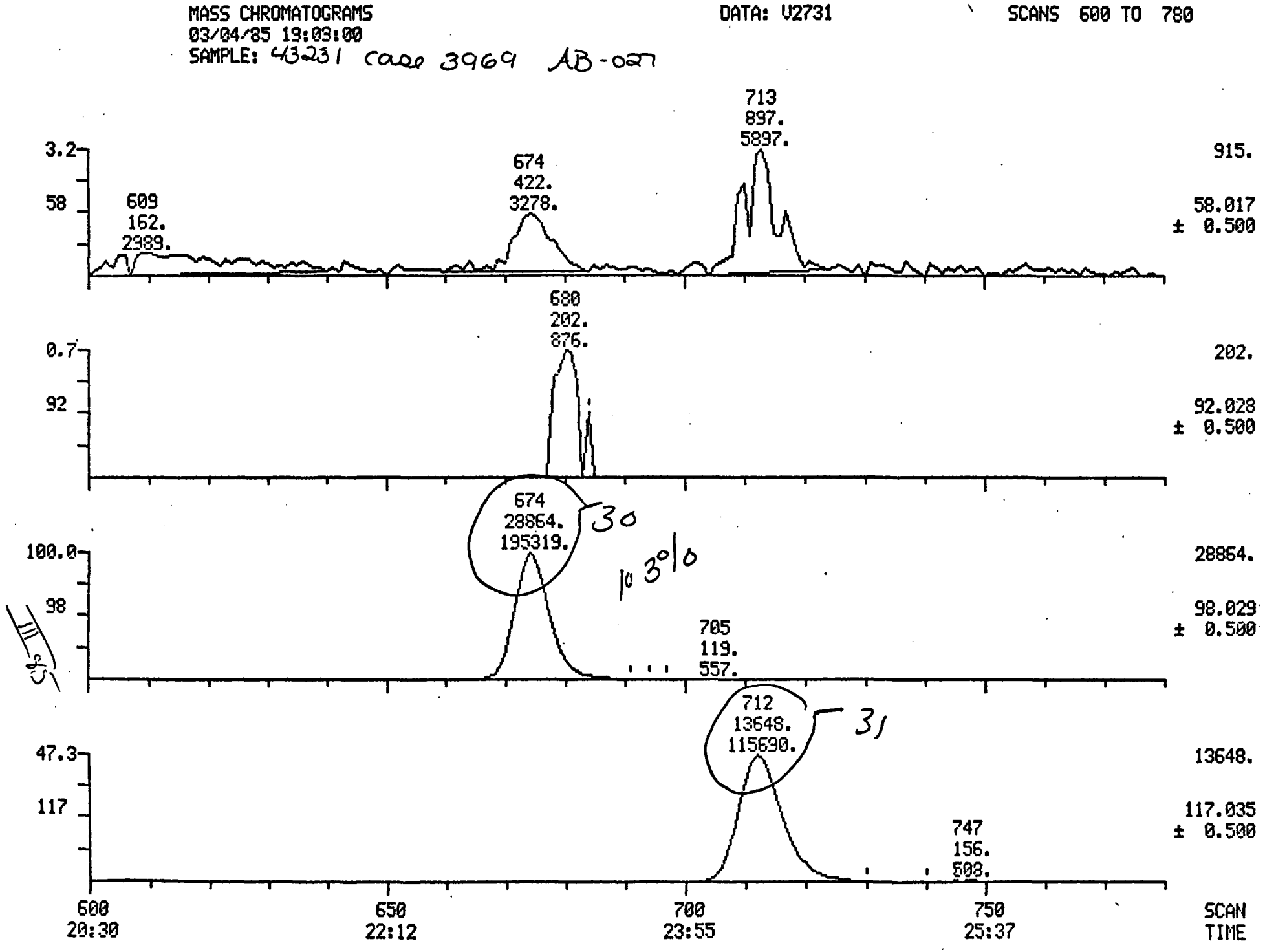
MASS CHROMATOGRAMS
03/04/85 19:09:00
SAMPLE: 4/3231 case 3969 AB-027

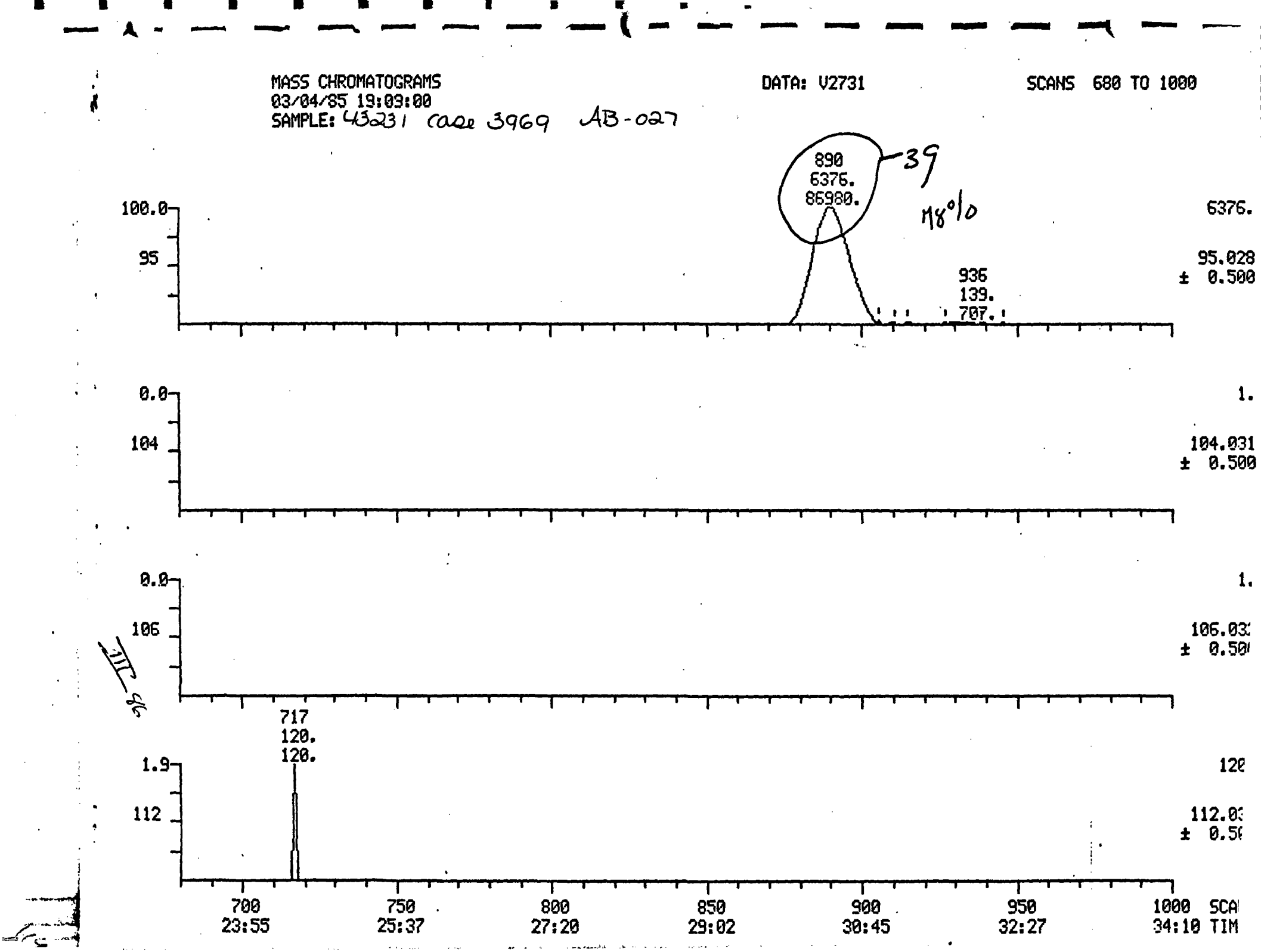
DATA: V2731

SCANS 500 TO 700



M-84

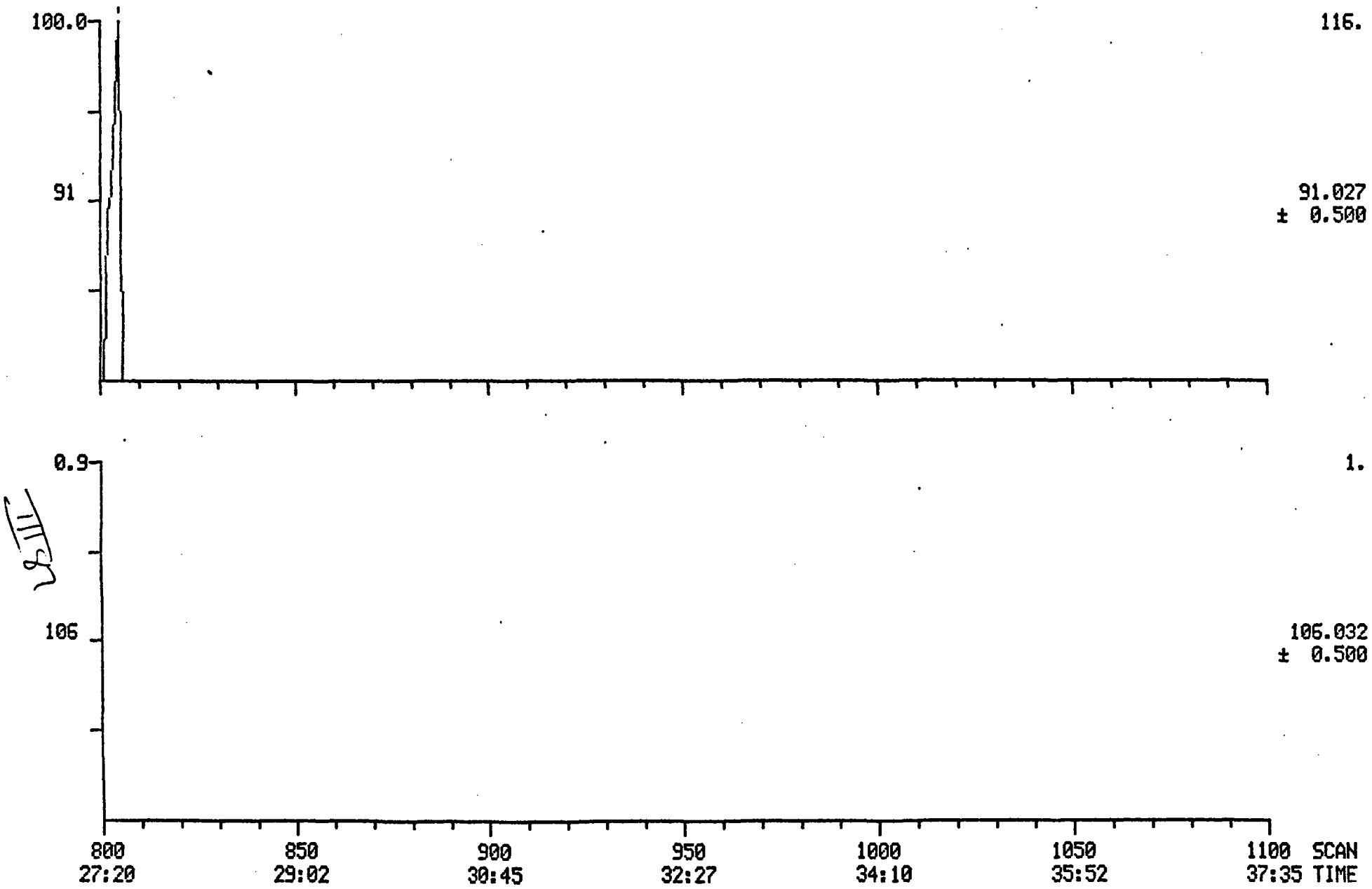

MASS CHROMATOGRAMS
03/04/85 19:09:00
SAMPLE: 43231 case 3969 AB-027
DATA: V2731
SCANS 600 TO 780
713
897.
5897.
674
422.
3278.
609
162.
2989.
3.2
58
915.
58.017
± 0.500
680
202.
876.
0.7
92
202.
92.028
± 0.500
674
28864.
195319.
30
10 3%
100.0
98
705
119.
557.
28864.
98.029
± 0.500
712
13648.
115690.
31
47.3
117
747
156.
508.
13648.
117.035
± 0.500
600
20:30
650
22:12
700
23:55
750
25:37
SCAN
TIME


MASS CHROMATOGRAMS
03/04/85 19:09:00
SAMPLE: 43231 case 3969 AB-027
DATA: V2731
SCANS 680 TO 1000
890
6376.
86980.
39
M8%
936
139.
707.
100.0
95
6376.
95.028
± 0.500
0.0
104
1.
104.031
± 0.500
0.0
106
1.
106.03
± 0.50
717
120.
120.
1.9
112
120
112.0
± 0.5
700
23:55
750
25:37
800
27:20
850
29:02
900
30:45
950
32:27
1000
34:10
SCA
TIM

MASS CHROMATOGRAMS
03/04/85 19:09:00
SAMPLE: 43231 Code 3969 AB-027

DATA: V2731

SCANS 800 TO 1100

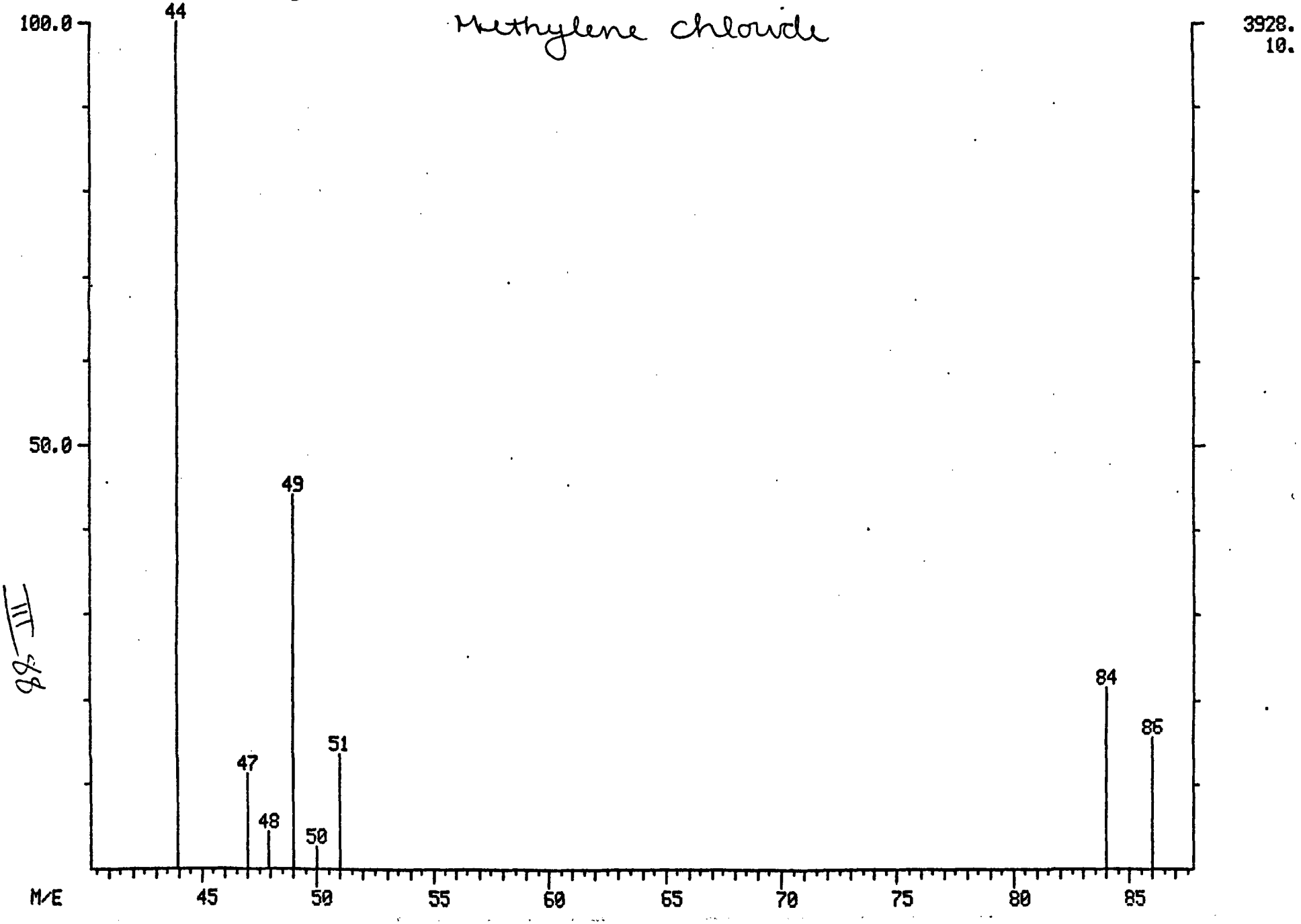


MASS SPECTRUM
03/04/85 19:09:00 + 8:39
SAMPLE: 43231 case 3969 AD-027

DATA: V2731 #253

BASE M/E: 44
RIC: 8368.

Methylene chloride



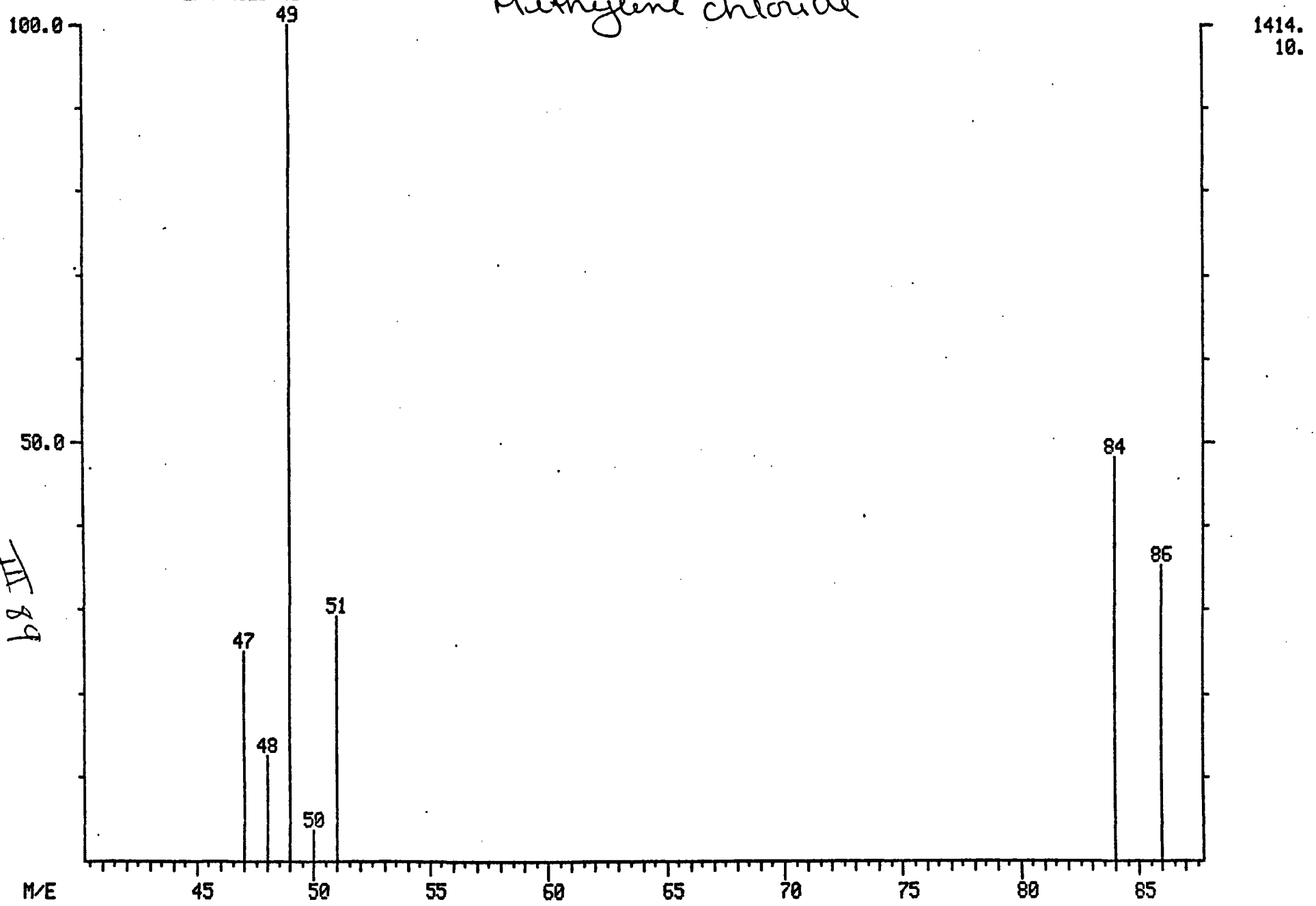
III 88

MASS SPECTRUM
03/04/85 19:03:00 + 8:39
SAMPLE: 43231 case 3969 AB-027
ENHANCED (S 15B 2N)

DATA: V2731 #253

BASE M/E: 49
RIC: 3604.

Methylene chloride



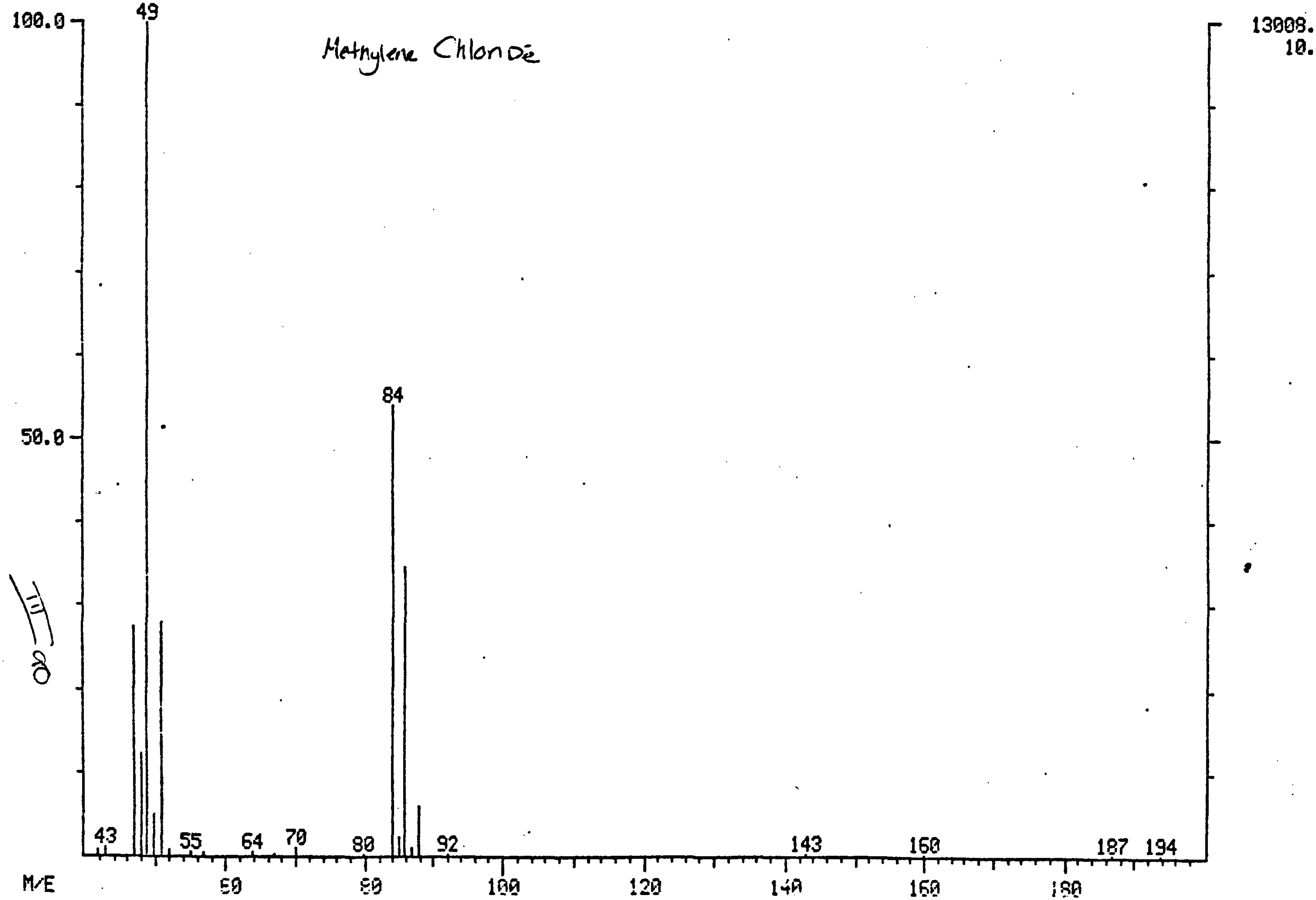
84

MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE: case 3969 cn 100 ppb
ENHANCED (S 15B 2N)

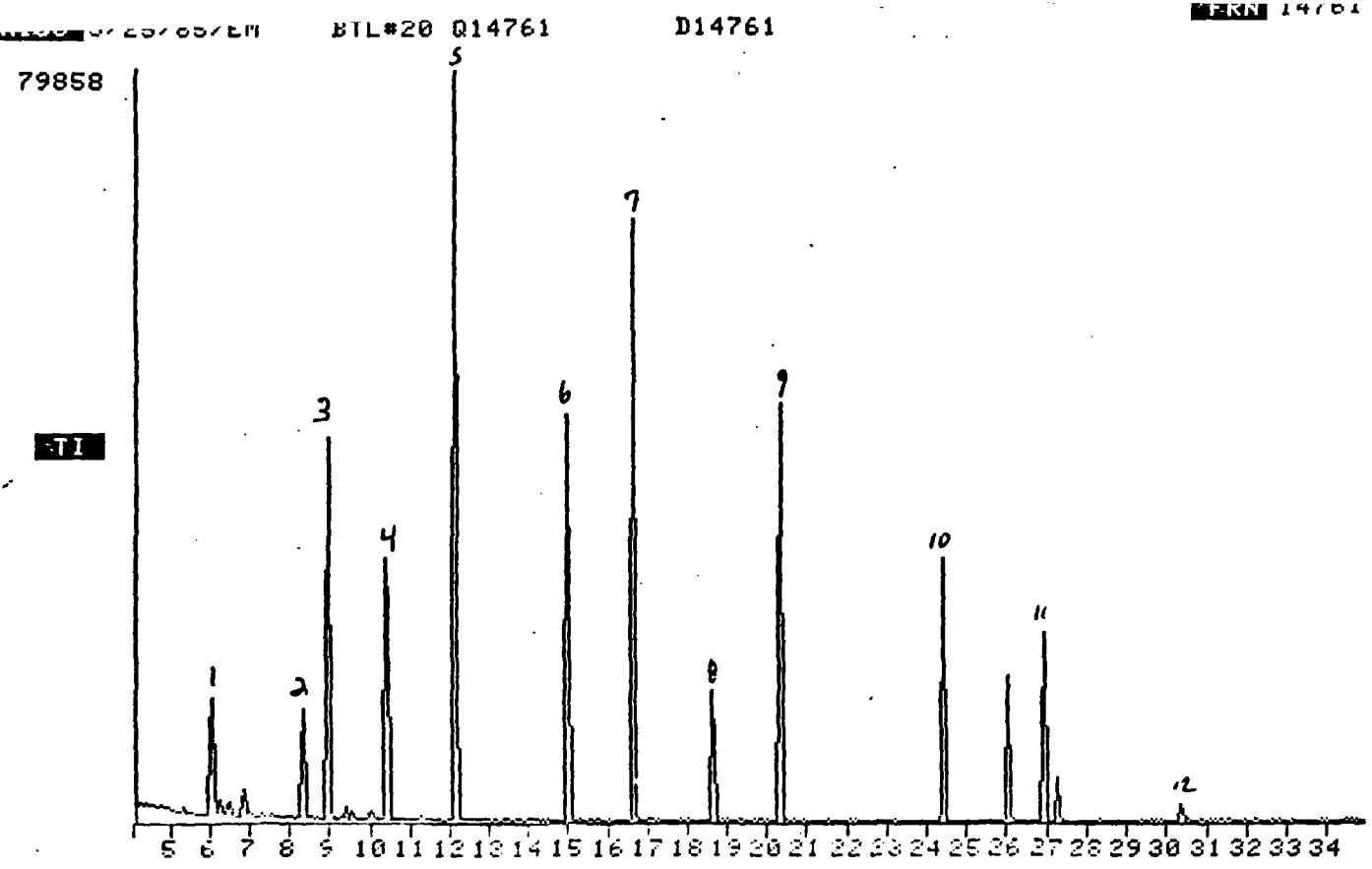
DATA: V2708 #248

BASE M/E: 49
RIC: 36224.

Methylene Chloride



[redacted] BTL#20 Q14761 D14761 [redacted] 14761



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

III-91

FILE NUMBER 14761

43217 AB027 CASE 3969

3/25/85/EM BTL#20 Q14761 D14761

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000				D4-1,4-DICHLOROBENZENE(20)
9.9	74.0	.046	.0000				N-NITROSODIMETHYLAMINE
8.4	93.0	.913	.0000				ANILINE
8.5	93.0	.709	.0000				BIS(2-CHLOROETHYL)ETHER
8.9	146.0	.591	.0000				1,3-DICHLOROBENZENE
9.0	146.0	.594	.0000				1,4-DICHLOROBENZENE
9.5	108.0	.395	.0000				BENZYL ALCOHOL
9.5	146.0	.594	.0000				1,2-DICHLOROBENZENE
9.9	45.0	.527	.0000				BIS(2-CHLOROISOPROPYL)ETHER
10.2	70.0	.490	.0000				N-NITROSODINPROPYLAMINE
10.2	117.0	.291	.0000				HEXACHLOROETHANE
10.5	77.0	.716	.0000				NITROBENZENE
12.1	68.0	1.000	80.0000				D8-NAPHTHALENE(20)
11.1	138.0	1.519	.0000				ISOPHORONE
11.8	95.0	1.813	.0000				BIS(2-CHLOROETHOXY)METHANE
12.1	180.0	2.642	.0000				1,2,4-TRICHLOROBENZENE
12.2	129.0	1.325	.0000				NAPHTHALENE
12.5	127.0	4.577	.0000				4-CHLOROANILINE
12.7	225.0	1.190	.0000				HEXACHLOROBUTADIENE
14.0	115.0	2.578	.0000				2-METHYLNAPHTHALENE
16.7	164.0	1.000	80.0000				D10-ACENAPHTHENE
14.6	237.0	.205	.0000				HEXACHLOROCYCLOPENTADIENE
15.2	164.0	.281	.0000				2-CHLORONAPTHALENE
15.6	138.0	.397	.0000				2-NITROANILINE
16.2	164.0	.083	.0000				DIMETHYL PHTHALATE
16.3	151.0	.272	.0000				ACENAPHTHYLENE
16.4	165.0	.228	.0000				2,6-DINITROTOLUENE
16.7	138.0	.293	.0000				3-NITROANILINE
16.8	152.0	.437	.0000				ACENAPHTHENE
17.2	139.0	.490	.0000				DIBENZOFURAN
17.3	165.0	.320	.0000				2,4-DINITROTOLUENE
18.0	177.0	.171	.0000				DIETHYL PHTHALATE
18.0	165.0	.820	.0000				FLUORENE
18.1	204.0	.358	.0000				4-CHLOROPHENYLPHENYL ETHER
18.2	138.0	.292	.0000				4-NITROANILINE
17.2	169.0	.144	.0000				DIPHENYLAMINE

43217 AB027 CASE 3969
3/25/85/EM BTL#20 Q14761 D14761

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	15.6843 ✓	BIS(2-ETHYLHEXYL)PHTHALATE			
30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	.0000	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

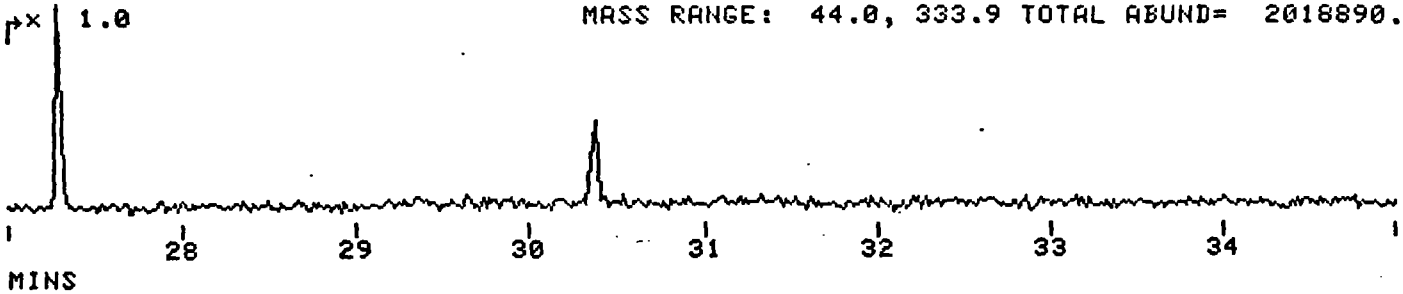
III 93

43217 AB027 CASE 3969
3/25/85/EM BTL#20 Q14761 D14761

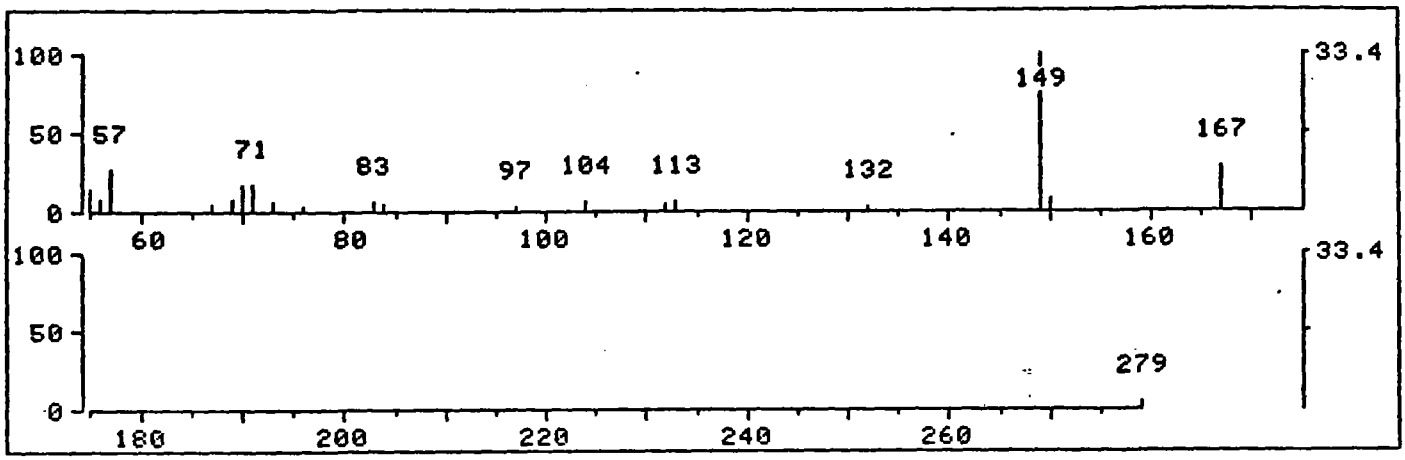
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

III 94

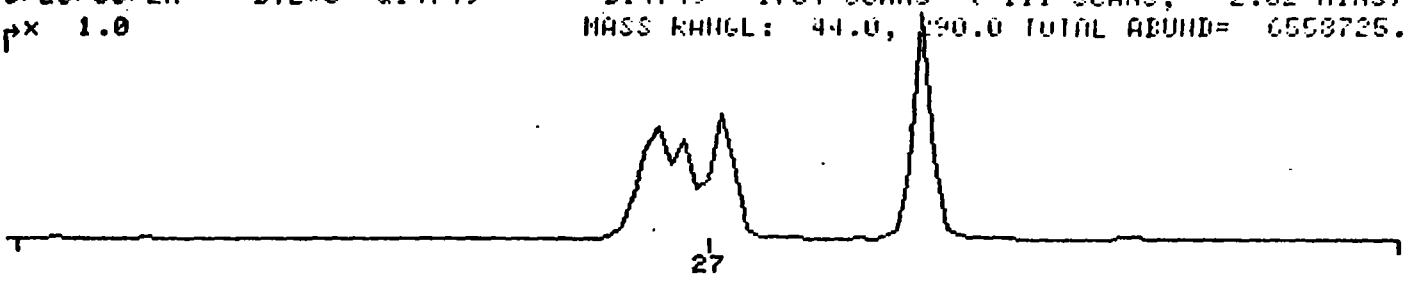
43217 AB027 CASE 3969
3/25/85/EM BTL#20 Q14761 D14761 1706 SCANS (442 SCANS, 8.02 MINS)
FRN 14761, CRN 10
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2018890.



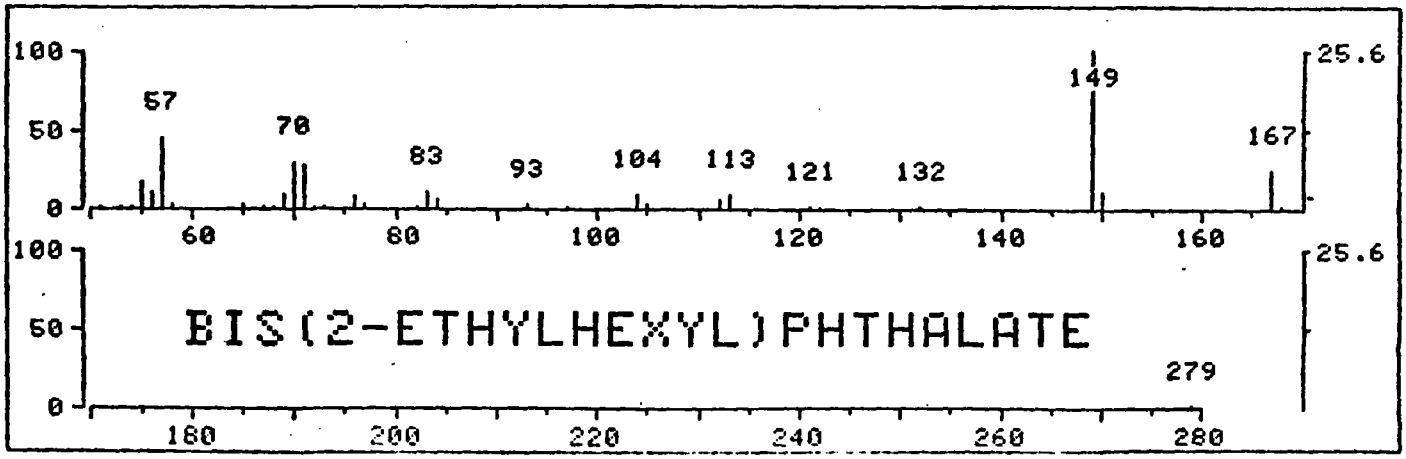
#1281 RET. TIME: 27.30 TOT ABUND= 3912. BASE PK/ABUND: 149.1/ 1306.



80BN
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (111 SCANS, 2.02 MINS)
FRN 14749, CRN 7
1.0 MASS RANGE: 44.0, 390.0 TOTAL ABUND= 6558725.



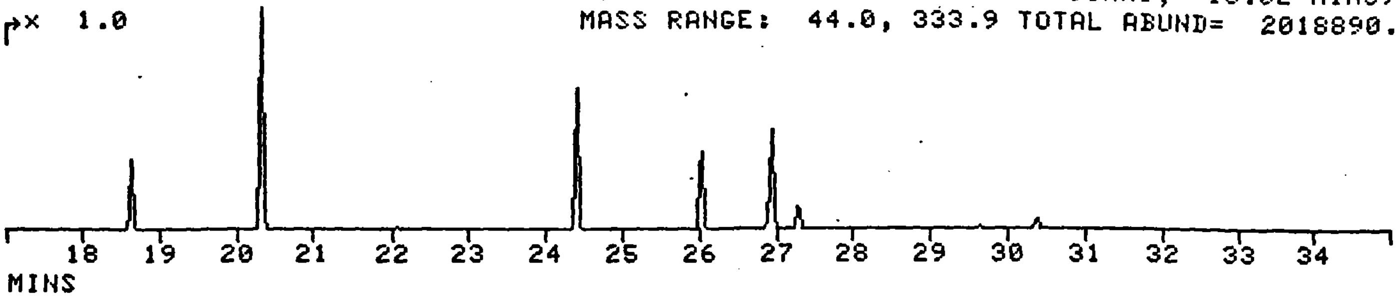
#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.



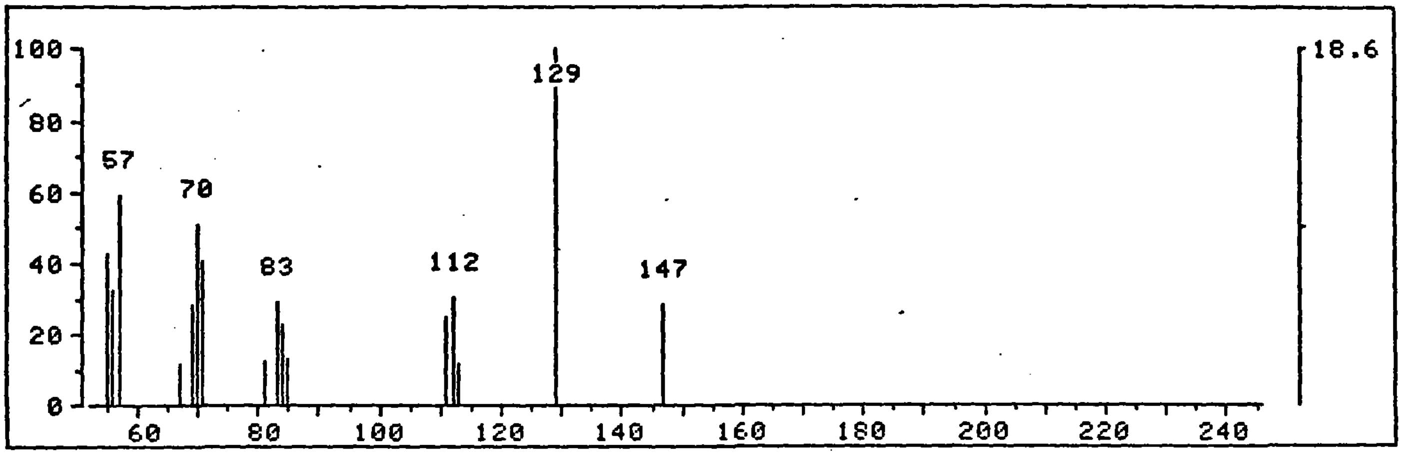
JH 95

D14761 1706 SCANS (994 SCANS, 18.02 MINS)

MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2018890.



#1212 RET. TIME: 26.05 TOT ABUND= 2282. BASE PK/ABUND: 129.1/ 424.



needs copy of lib. match s

II 96

AREA TABLE ENTRIES: FRN 14761

Entry	Time	Mass	Area	%
1	27.0	239.7	14688.	100.0
2	26.0	TI	30080.	204.8

CALCULATE % ON ENTRY #:

CH97

Date 4/1/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

Case # 3969

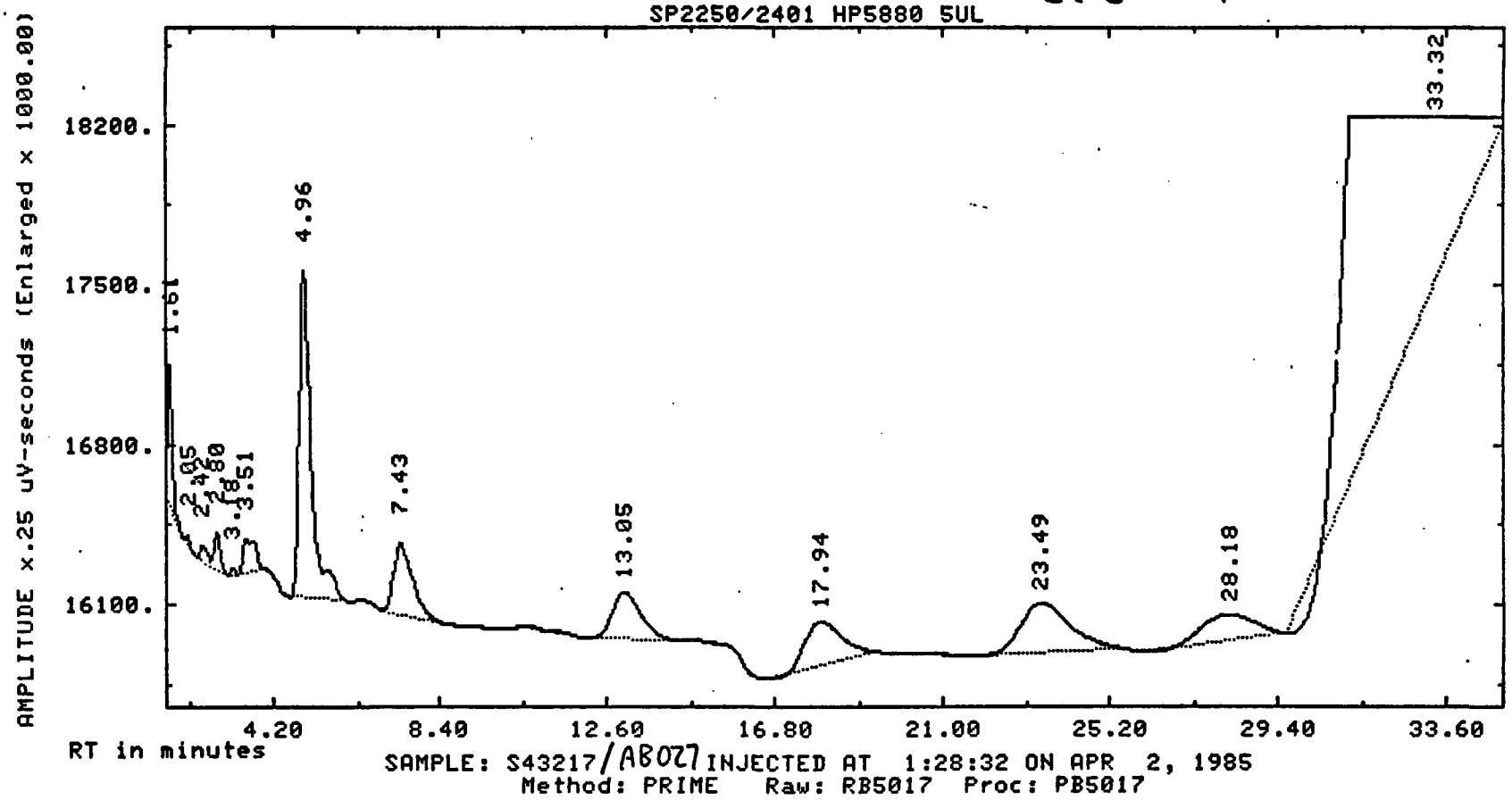
Sample I.D. 43217 / AB027 HP 5880
Run # 17 Bottle # 17

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
3.18	Heptachlor	0.123	< 5.0 x	10 ÷ 1000 =	< 0.05	
3.51	δ-BHC	1.55	< 5.0 x	10 ÷ 1000 =	< 0.05	
	DBC	obscured by peak at 33 min				

GCA CORPORATION
Technology Division

III-98

Case 3969


SP2250/2401 HP5880 5UL
AMPLITUDE x.25 uV-seconds (Enlarged x 1000.00)
18200.
17500.
16800.
16100.
1.61
2.05
2.80
3.51
4.96
7.43
13.05
17.94
23.49
28.18
33.32
4.20
8.40
12.60
16.80
21.00
25.20
29.40
33.60
RT in minutes
SAMPLE: S43217/AB027 INJECTED AT 1:28:32 ON APR 2, 1985
Method: PRIME Raw: RB5017 Proc: PB5017

READY
*LI,P,PB5017

Case 3969

PROCESSED DATA FILE: PB5017 ON CRN 21

APR 2, 1985 9:15:17

REPORT: 160 CHANNEL: 2 # PEAKS: -15 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.30	0.00	1.00000	129	BV	.007	
2	1.43	0.00	1.00000	116	VV	.006	
3	1.61	0.00	1.00000	2497	VB	.129	
4	2.05	0.00	1.00000	121	BB	.006	
5	2.42	0.00	1.00000	397	BV	.021	
6	2.60	0.00	1.00000	894	VV	.046	
7	3.18	0.00	1.00000	123	VB	.006	
8	3.51	0.00	1.00000	1549	BB	.080	
9	4.96	0.00	1.00000	14786	BB	.765	
10	7.43	0.00	1.00000	4932	BB	.255	
11	13.05	0.00	1.00000	4824	BB	.249	
12	17.94	0.00	1.00000	6373	BB	.330	
13	23.49	0.00	1.00000	8902	BB	.460	
14	28.18	0.00	1.00000	4825	BB	.249	
15	33.32	0.00	1.00000	1883330	BF	97.390	

TOTAL AREA = 1933801 TOTAL AREA % = 100.000

SAMPLE: S43217/AB027 INJECTED AT 1:28:32 ON APR 2, 1985

ZERO METHOD: PRIME SEQ: SM03A SUBSQ/SAMP: 1 / 17 BTL: 17

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	YES

ACTUAL RUN TIME: 40.017 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: RB5017 PARAM FILES= METHOD: SEQ:

DONE
READY

III 519

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:
GCA
213 Burlington Rd
Bedford, MA 01730

Attn: Gary Hunt

Transfer
Ship To:

⑤ Regional Office: E

Sampling Personnel:
John Williams
(Name)
(617) 742-5151
(Phone)

Sampling Date:
(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	80 oz	
Water (VOA)	2	40 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑪ Analysis Lab:
Rec'd by: S. Thomas
Date Rec'd: 3/1/95
Sample Condition on Receipt (e.g., broken, n ice, Chain-of-Custody, etc.)

⑦ Shipping Information

Name of Carrier

Date Shipped:

Airbill Number:

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MAA 026.

LAB FILE COPY

III 100

Case No ... 0767 ...

b Sample ID No: 43232

QC Report No 3969

mple Matrix: water

Contract No: 68-01-6767

ata Release Authorized By

Date Sample Received 3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/4/85

Date Analyzed: 3/4/85

Conc/Dil Factor: 1 pH: NA

Percent Moisture: NA

Percent Moisture (Decanted): NA

Elmor 5/2/85

R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	7.1
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u R
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	1.8 ~~5u~~
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
[illegible]-55-6	1, 1, 1-Trichloroethane	0.4 ~~10~~ 5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	*5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

* See narrative

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. [illegible] The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound [illegible] the result is less than the [illegible]

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

III 101

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 028

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/15/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0l → 1.0ml

Extract 5/4/85

R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3 Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4 Dichlorophenol	10u
120-82-1	1, 2 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	19 B
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB028

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 4/1/85

Conc/Dil Factor: 1

ET mm 5/15/85

NA = Not Analyzed

CAS Number		ug/L or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05U
319-65-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4,4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4,4'-DDD	0.10U
7421-93-4	Endrin Aldehyde	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4,4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor-1016	0.50U
11104-28-2	Aroclor-1221	0.50U
11141-16-5	Aroclor-1232	0.50U
53469-21-9	Aroclor-1242	0.50U
12672-29-6	Aroclor-1248	0.50U
11097-69-1	Aroclor-1254	1.0U
11096-82-5	Aroclor-1260	1.0U

JH Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

AB 028

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

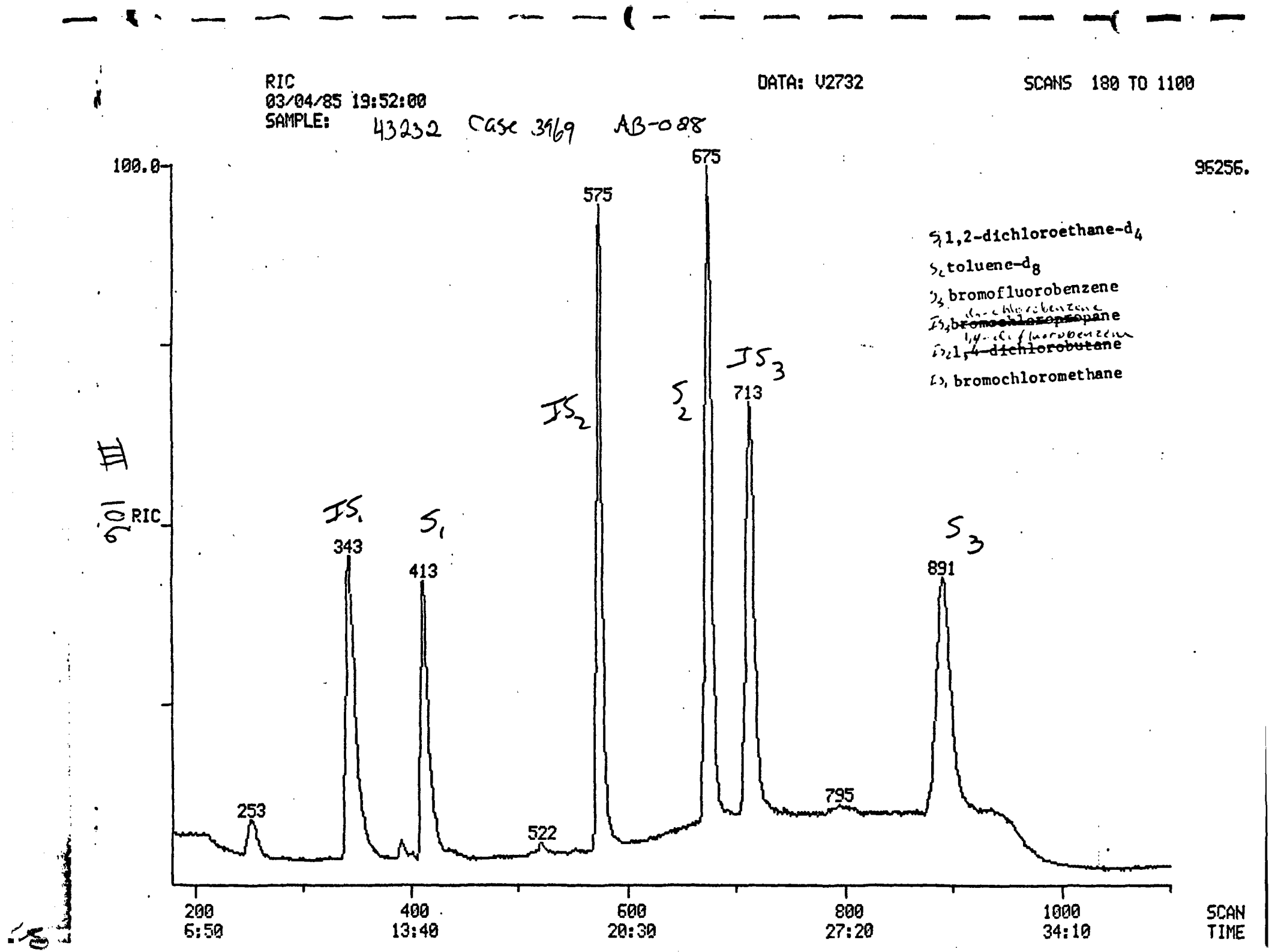
	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Compounds found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

AB 628

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	BN/A	26.0	153 J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


RIC
03/04/85 19:52:00
SAMPLE: 43232 Case 3969 AB-088
DATA: V2732
SCANS 180 TO 1100
100.0
96256.
RIC
IS1
343
S1
413
253
IS2
575
522
S2
675
IS3
713
795
S3
891
S1 1,2-dichloroethane-d4
S2 toluene-d8
S3 bromofluorobenzene
IS1 dichlorobenzene
IS2 1,4-difluorobenzene
IS3 bromochloromethane
200
6:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

02/20/85 11:31:00 SW87 CM
SAMPLE: ~~SOIL~~ CASE ~~8694~~ CM
SUBMITTED BY: ANALYST:

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT) * RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

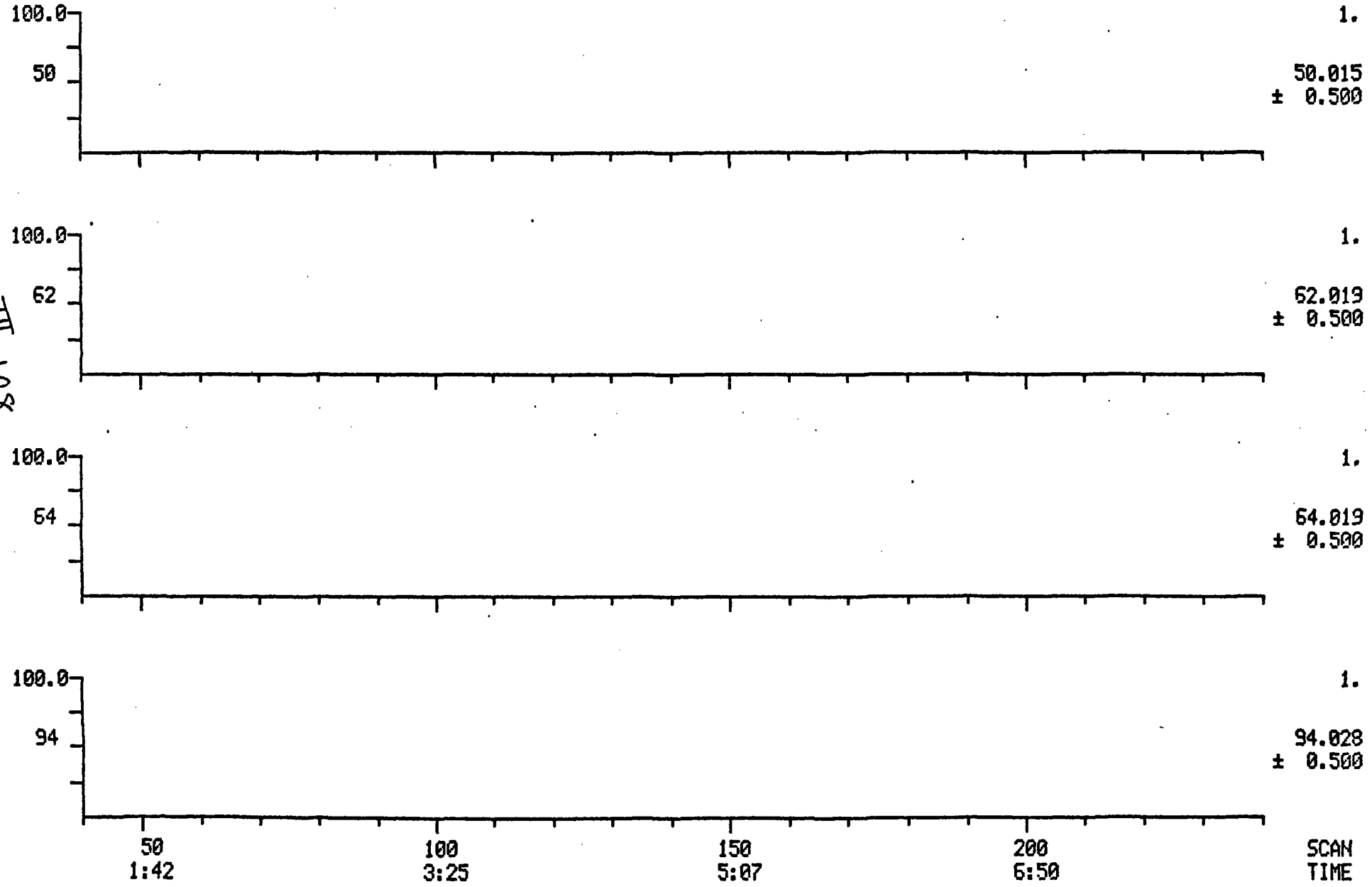
NO	NAME
1	BROMOCHLOROMETHANE (INTERNAL STANDARD #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	CARBON DISULFIDE
8	ACETONE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS-1,2-DICHLOROETHENE
12	CHLOROFORM
13	D4-1,2-DICHLOROETHANE (SURR #1)
14	1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	CARBON TETRACHLORIDE
17	VINYL ACETATE
18	2-BUTANONE
19	1,4-DIFLUOROBENZENE (SURR #2)
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS-1,3-DICHLOROPROPENE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	CIS-1,3-DICHLOROPROPENE
27	BENZENE
28	2-CHLOROETHYLVINYLETHER
29	BROMOFORM
30	D5-TOLUENE (SURR #3)
31	4-METHYL-2-PENTANONE
32	TETRACHLOROETHENE
33	1,1,2,2,TETRACHLOROethane
34	TOLUENE
35	2-HEXANONE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYL BENZENE
39	BFB (SURR #4)
40	STYRENE
41	Xylene

	MZ	AB	TIME		RRT		AMOUNT		%TOT
1	128	352	12.02		1.000		50.000	UG/L	2.33
2	50	72	3.26		1.305		50.000	UG/L	2.33
3	94	127	4.29		1.361		50.000	UG/L	2.33
4	62	163	5.34		1.463		50.000	UG/L	2.33

MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 45232 Case 3969 AB028

DATA: V2732

SCANS 40 TO 240

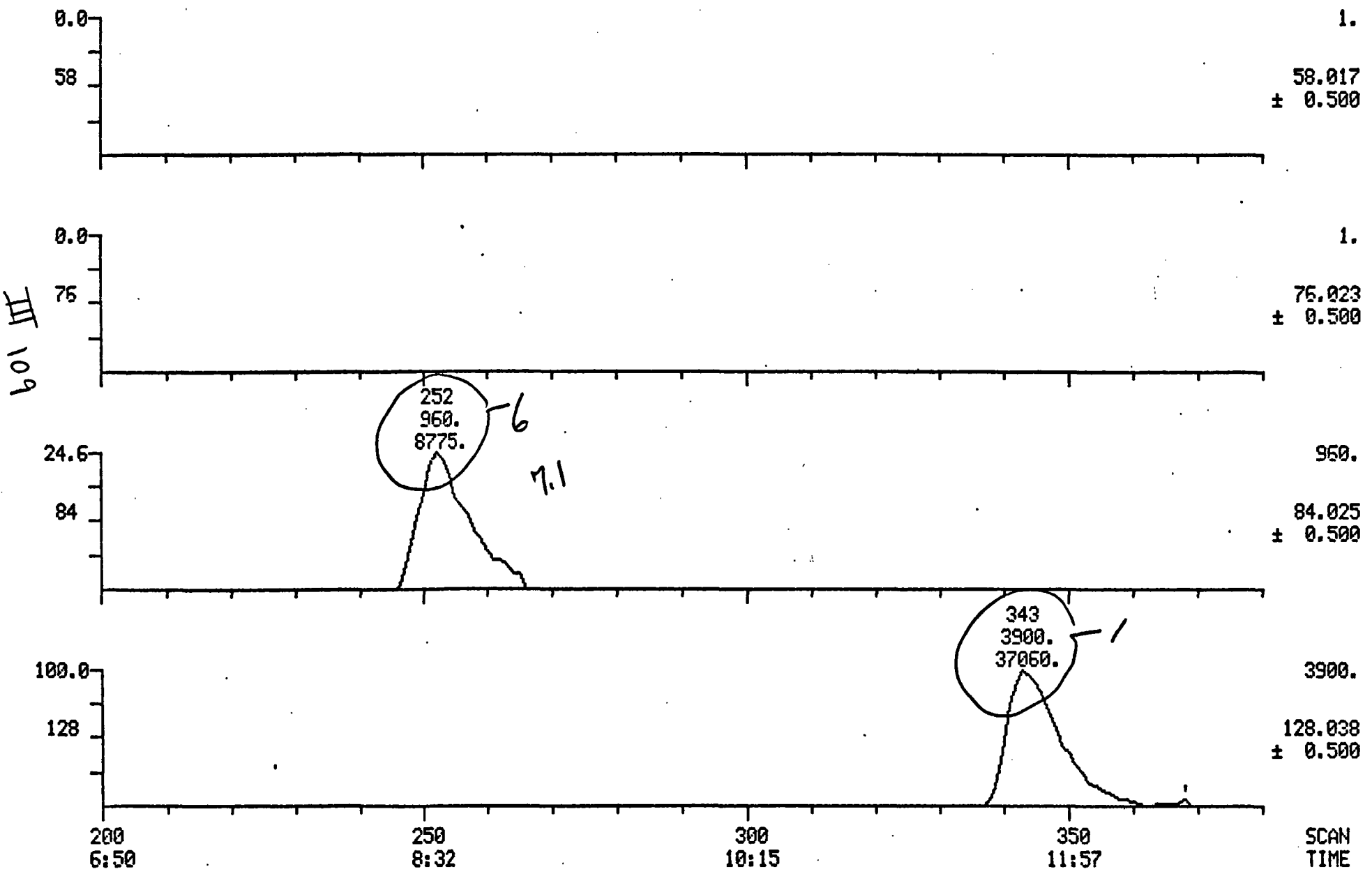


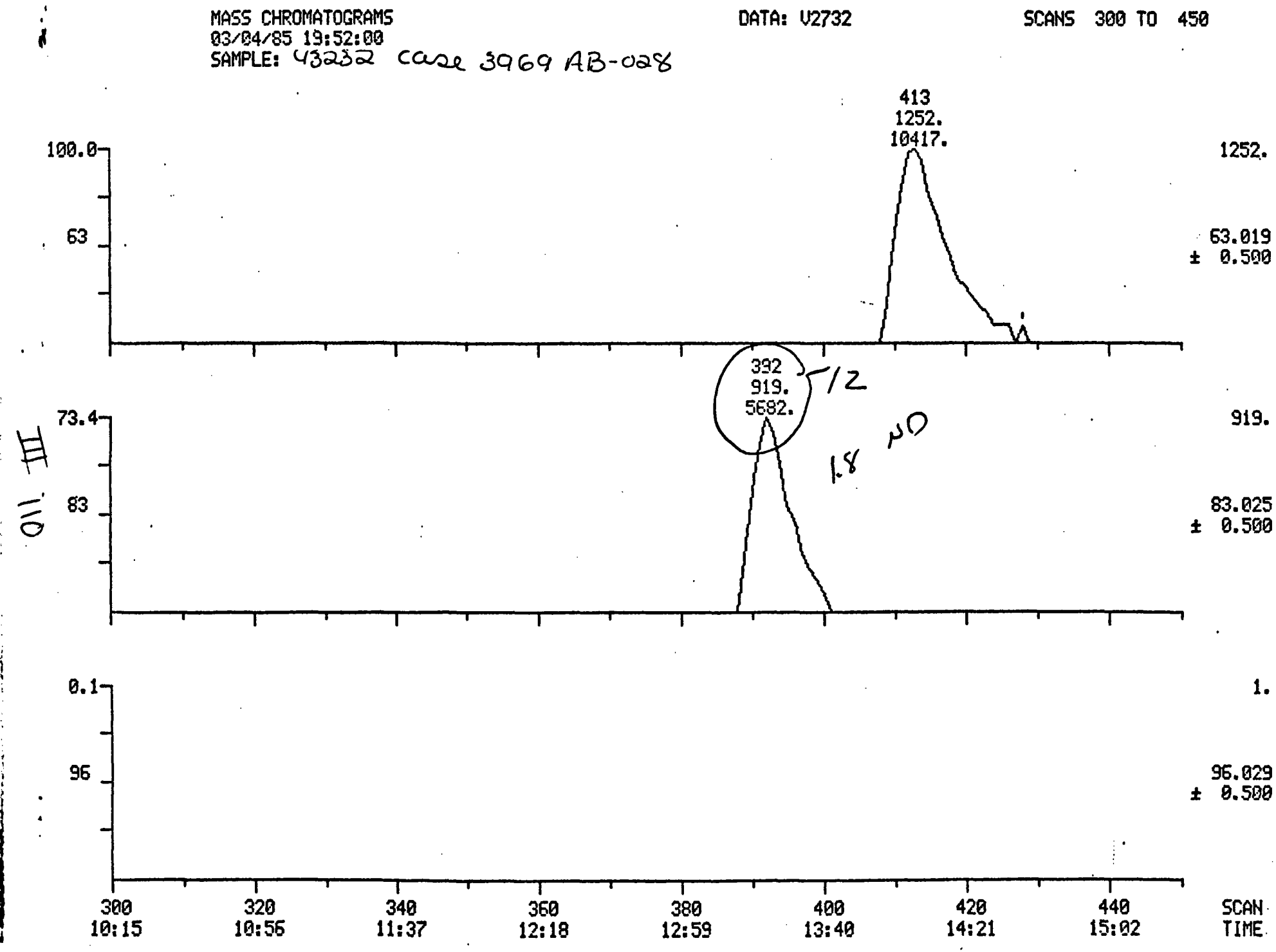
201 III

MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 case 3969 AB-028

DATA: V2732

SCANS 200 TO 380

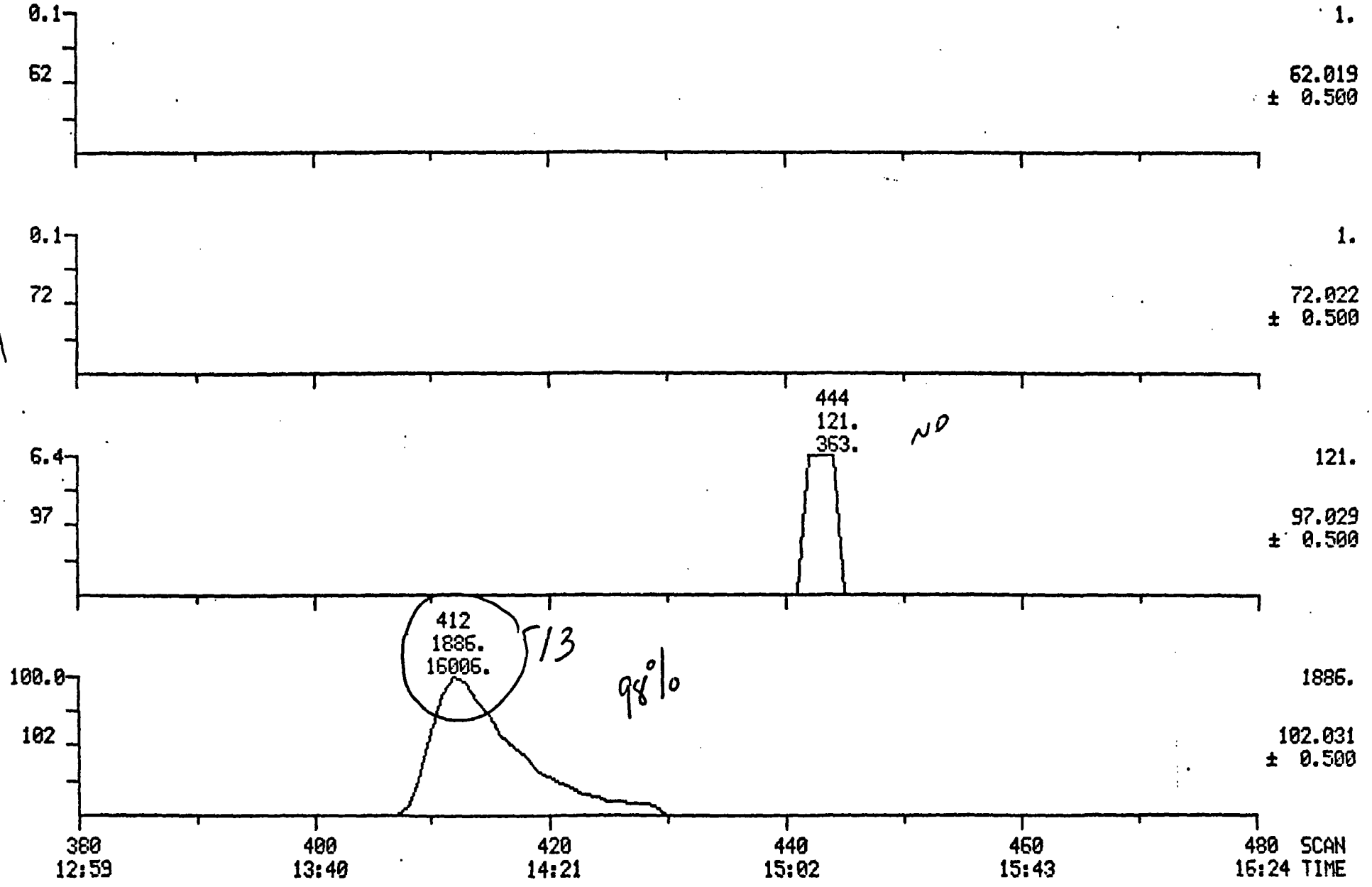



MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 case 3969 AB-028
DATA: V2732
SCANS 300 TO 450
413
1252.
10417.
100.0
63
1252.
63.019
± 0.500
392
919.
5682.
1/2
1.8 sD
73.4
83
919.
83.025
± 0.500
011 III
0.1
96
1.
96.029
± 0.500
300
10:15
320
10:56
340
11:37
360
12:18
380
12:59
400
13:40
420
14:21
440
15:02
SCAN
TIME

MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 case 3969 AB-028

DATA: V2732

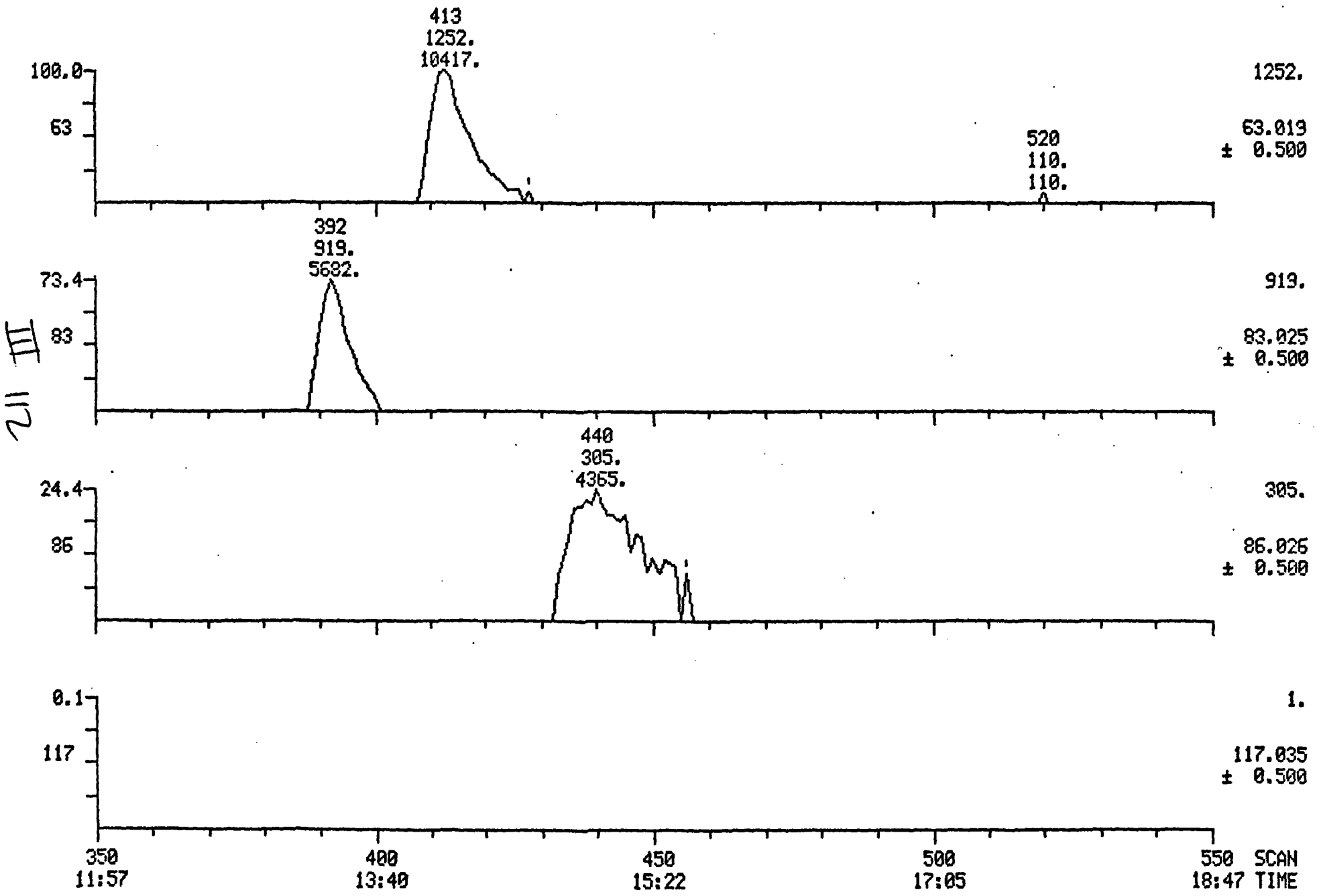
SCANS 380 TO 480



MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 Case 3969 AB-028

DATA: V2732

SCANS 350 TO 550

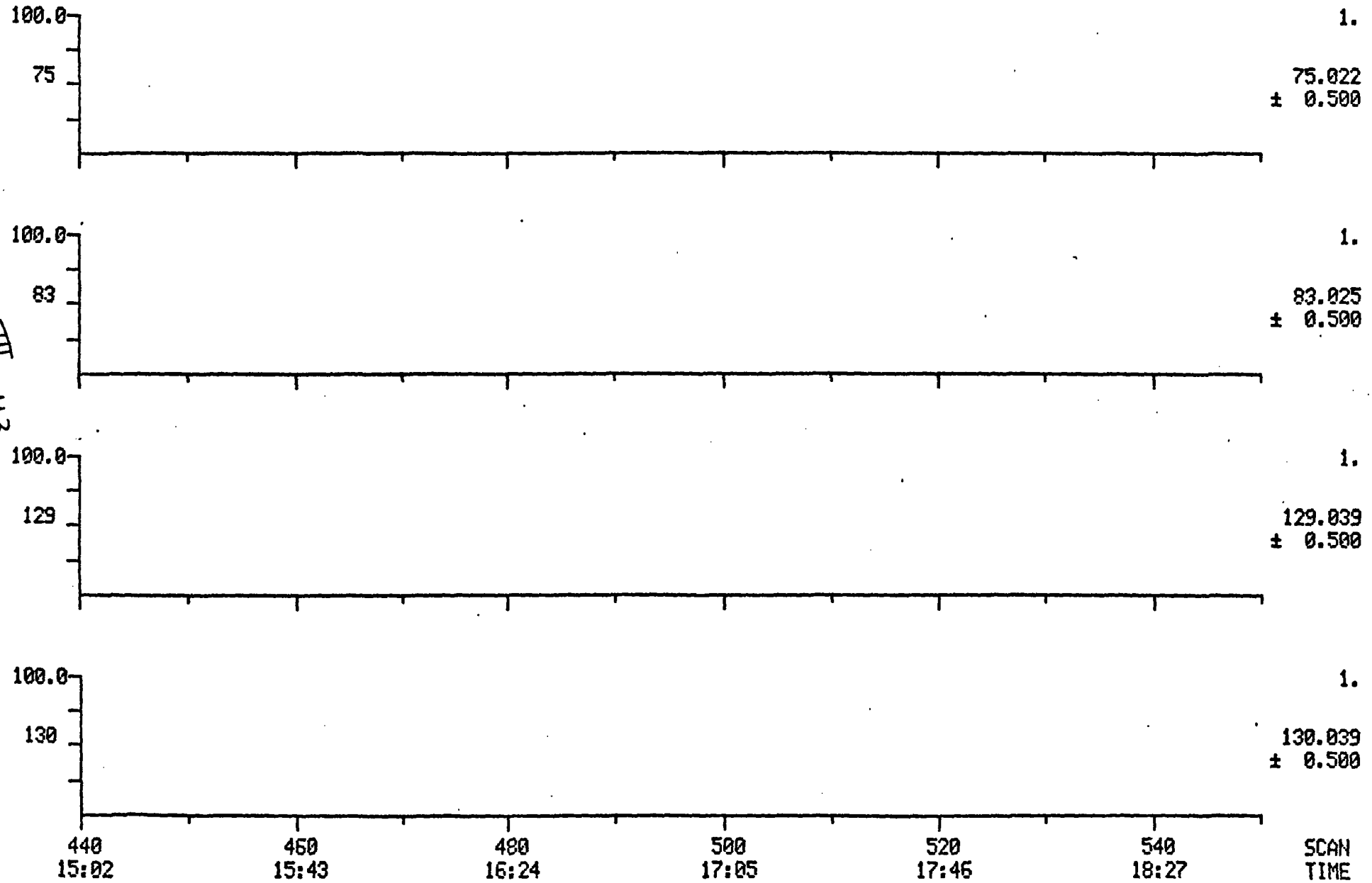


211 III

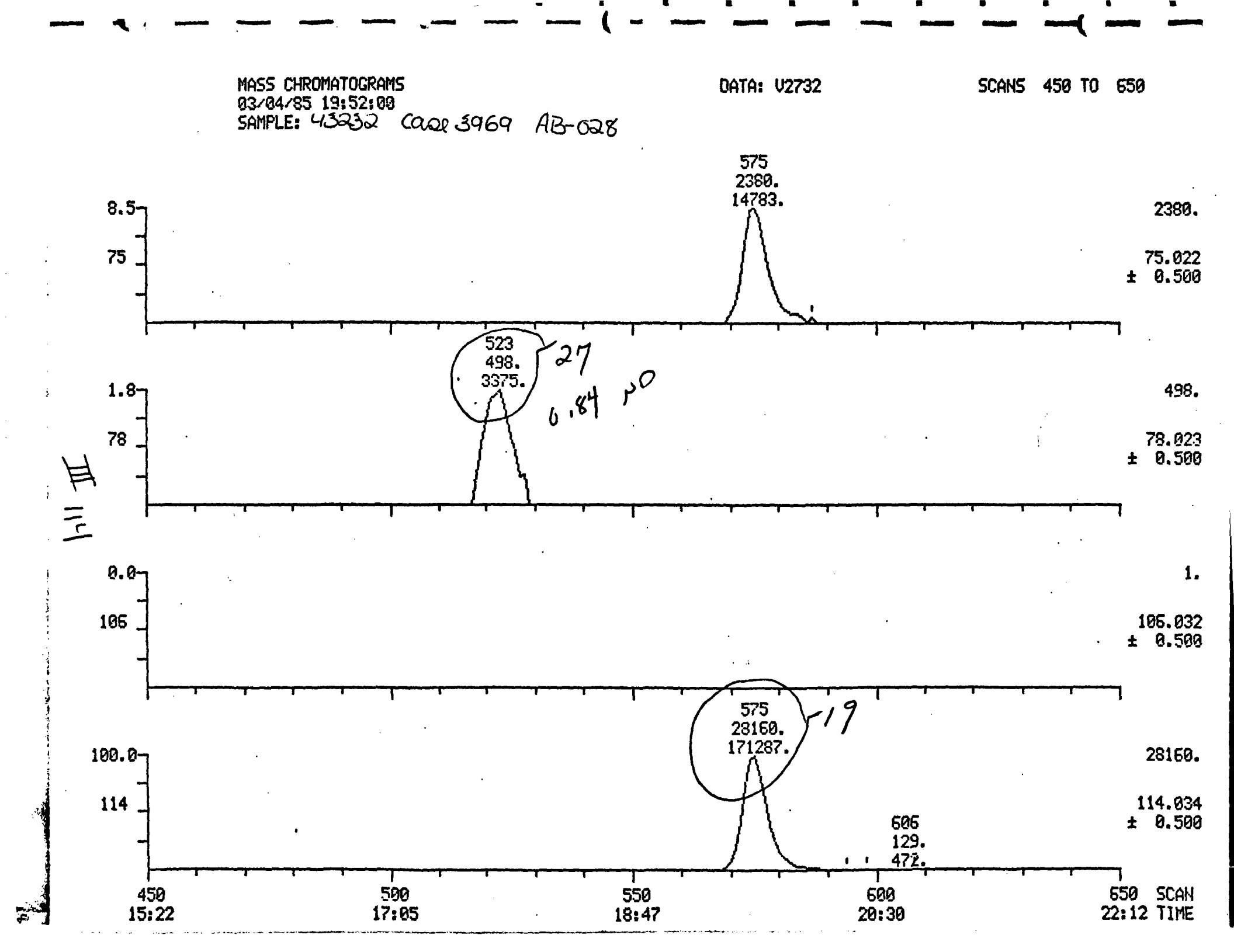
MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 code 3969 AB-028

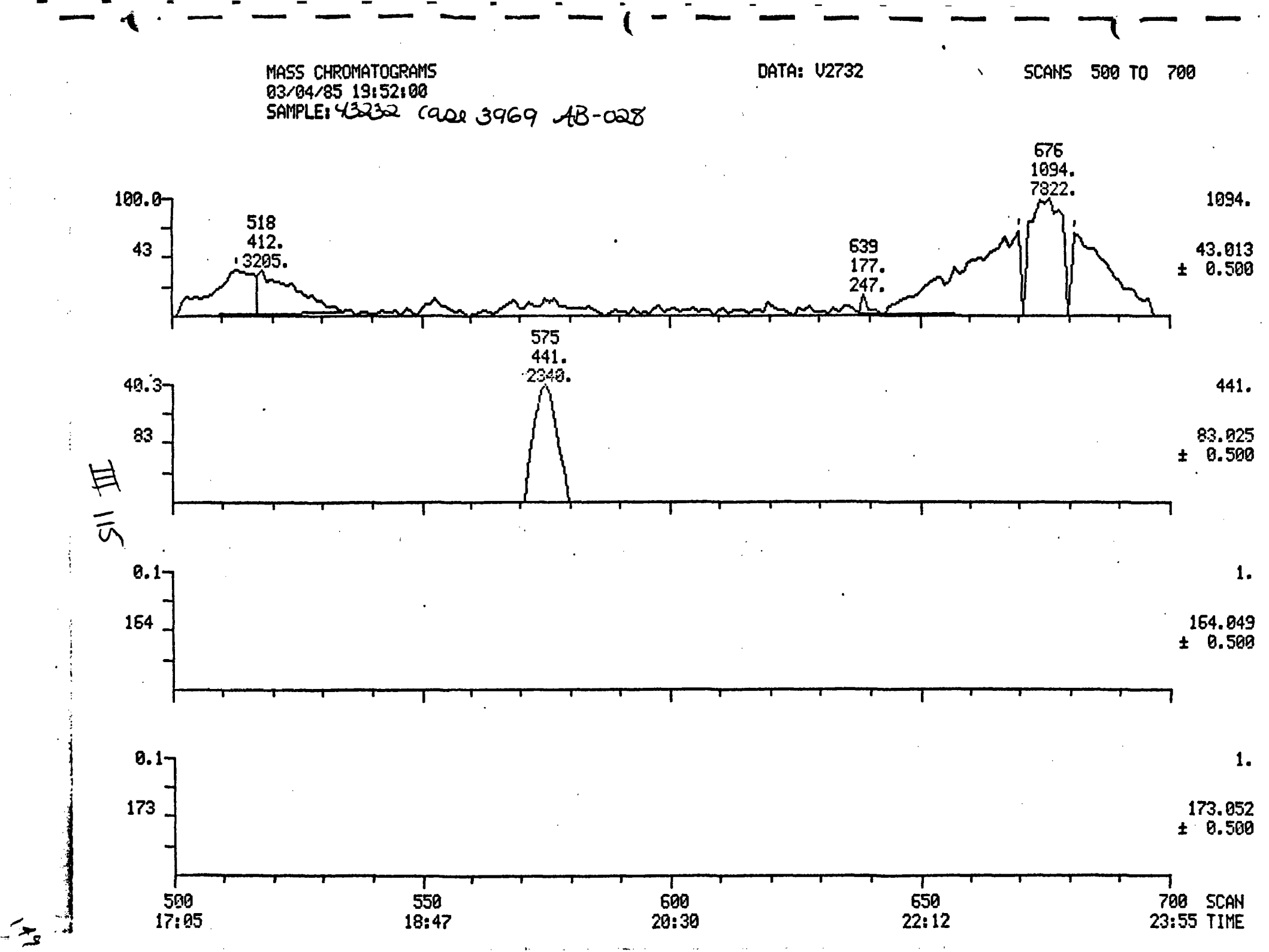
DATA: V2732

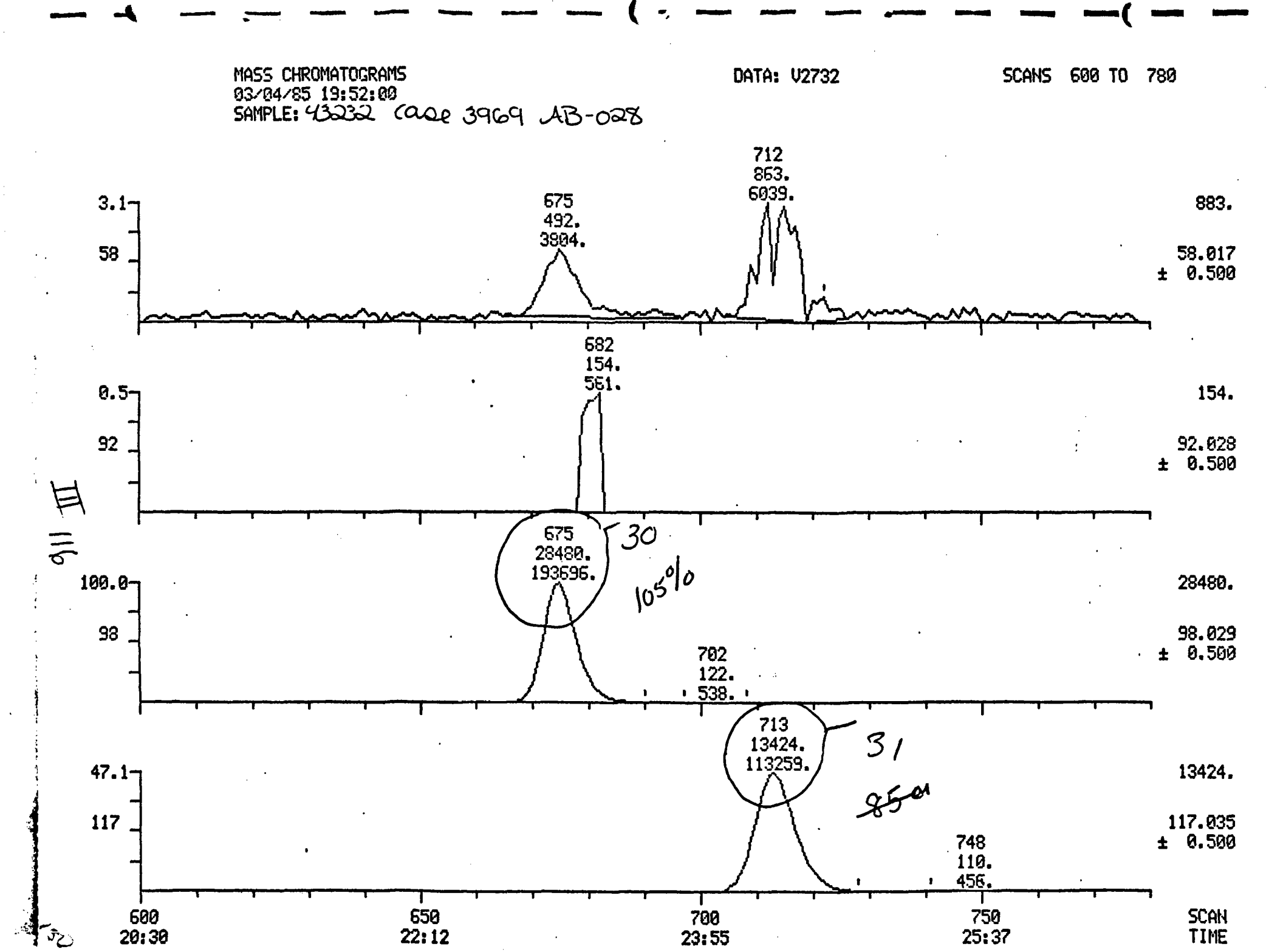
SCANS 440 TO 550

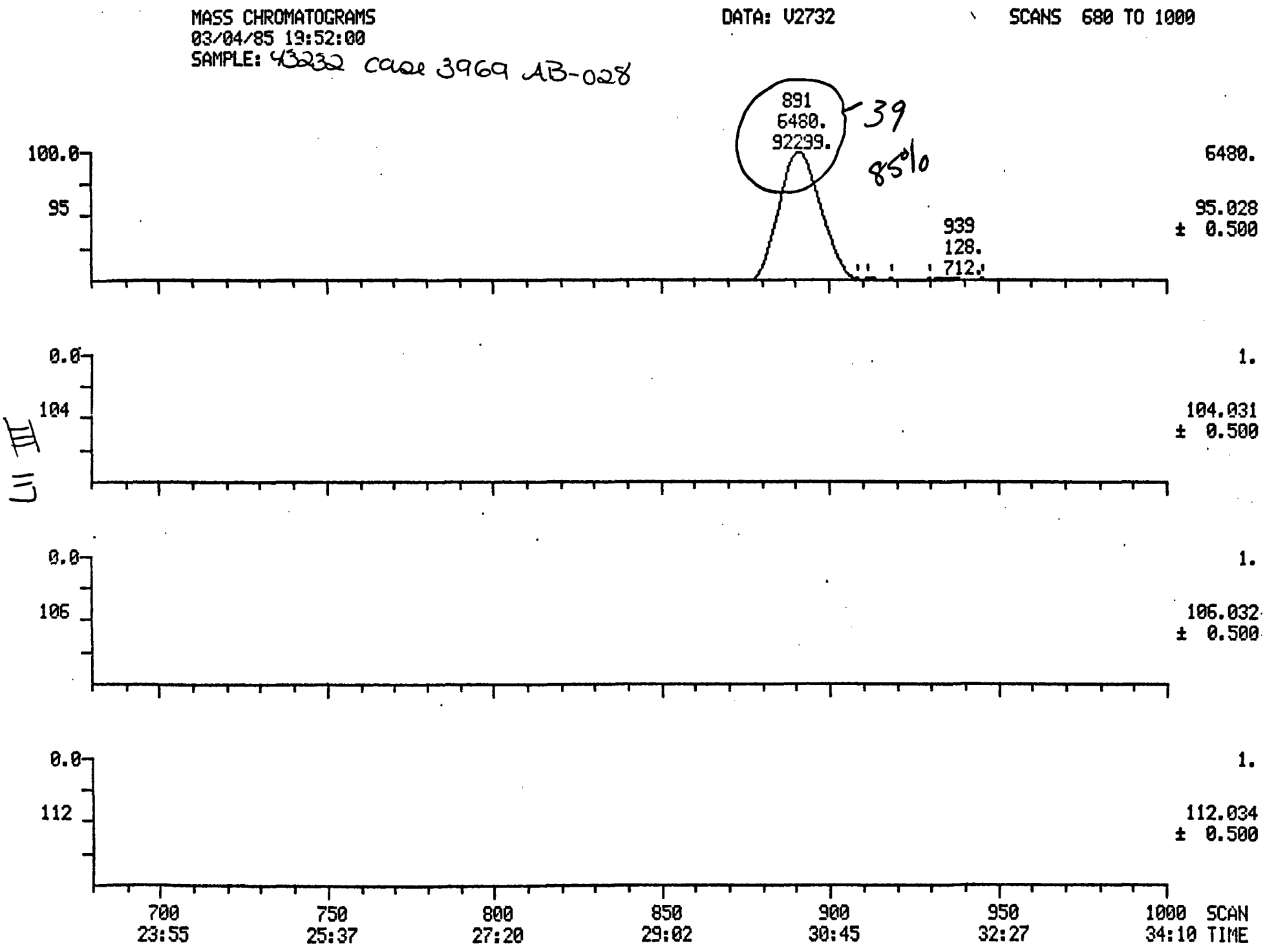


III 113


MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 Case 3969 AB-028
DATA: V2732
SCANS 450 TO 650
575
2380.
14783.
8.5
75
2380.
75.022
± 0.500
523
498.
3375.
27
0.84 ng
1.8
78
498.
78.023
± 0.500
0.0
106
1.
106.032
± 0.500
575
28160.
171287.
19
100.0
114
28160.
114.034
± 0.500
606
129.
472.
450
15:22
500
17:05
550
18:47
600
20:30
650 SCAN
22:12 TIME


MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 case 3969 AB-028
DATA: V2732
SCANS 500 TO 700
100.0
43
518
412.
3205.
639
177.
247.
676
1094.
7822.
1094.
43.013
± 0.500
40.3
83
575
441.
2340.
441.
83.025
± 0.500
SII III
0.1
164
1.
164.049
± 0.500
0.1
173
1.
173.052
± 0.500
500
17:05
550
18:47
600
20:30
650
22:12
700 SCAN
23:55 TIME

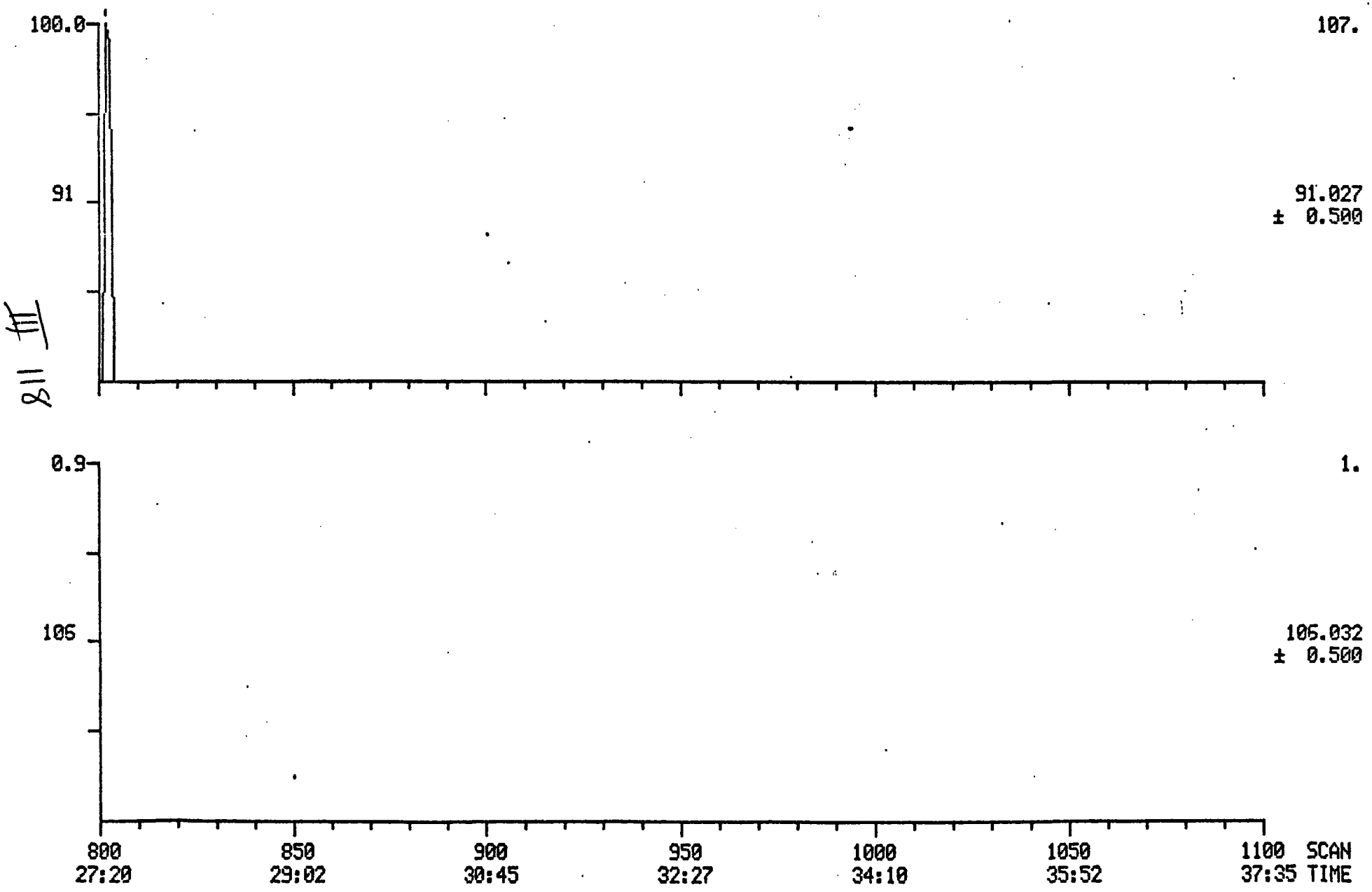

MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 case 3969 AB-028
DATA: V2732
SCANS 600 TO 780
3.1
58
675
492.
3804.
712
863.
6039.
883.
58.017
± 0.500
0.5
92
682
154.
561.
154.
92.028
± 0.500
675
28480.
193696.
30
105%
100.0
98
702
122.
538.
28480.
98.029
± 0.500
713
13424.
113259.
31
85%
47.1
117
748
110.
456.
13424.
117.035
± 0.500
600
20:30
650
22:12
700
23:55
750
25:37
SCAN
TIME


MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 case 3969 AB-028
DATA: V2732
SCANS 680 TO 1000
891
6480.
92239.
39
85%
939
128.
712.
100.0
95
6480.
95.028
± 0.500
0.0
104
1.
104.031
± 0.500
0.0
106
1.
106.032
± 0.500
0.0
112
1.
112.034
± 0.500
700
23:55
750
25:37
800
27:20
850
29:02
900
30:45
950
32:27
1000 SCAN
34:10 TIME

MASS CHROMATOGRAMS
03/04/85 19:52:00
SAMPLE: 43232 case 3969 AB-028

DATA: V2732

SCANS 800 TO 1100

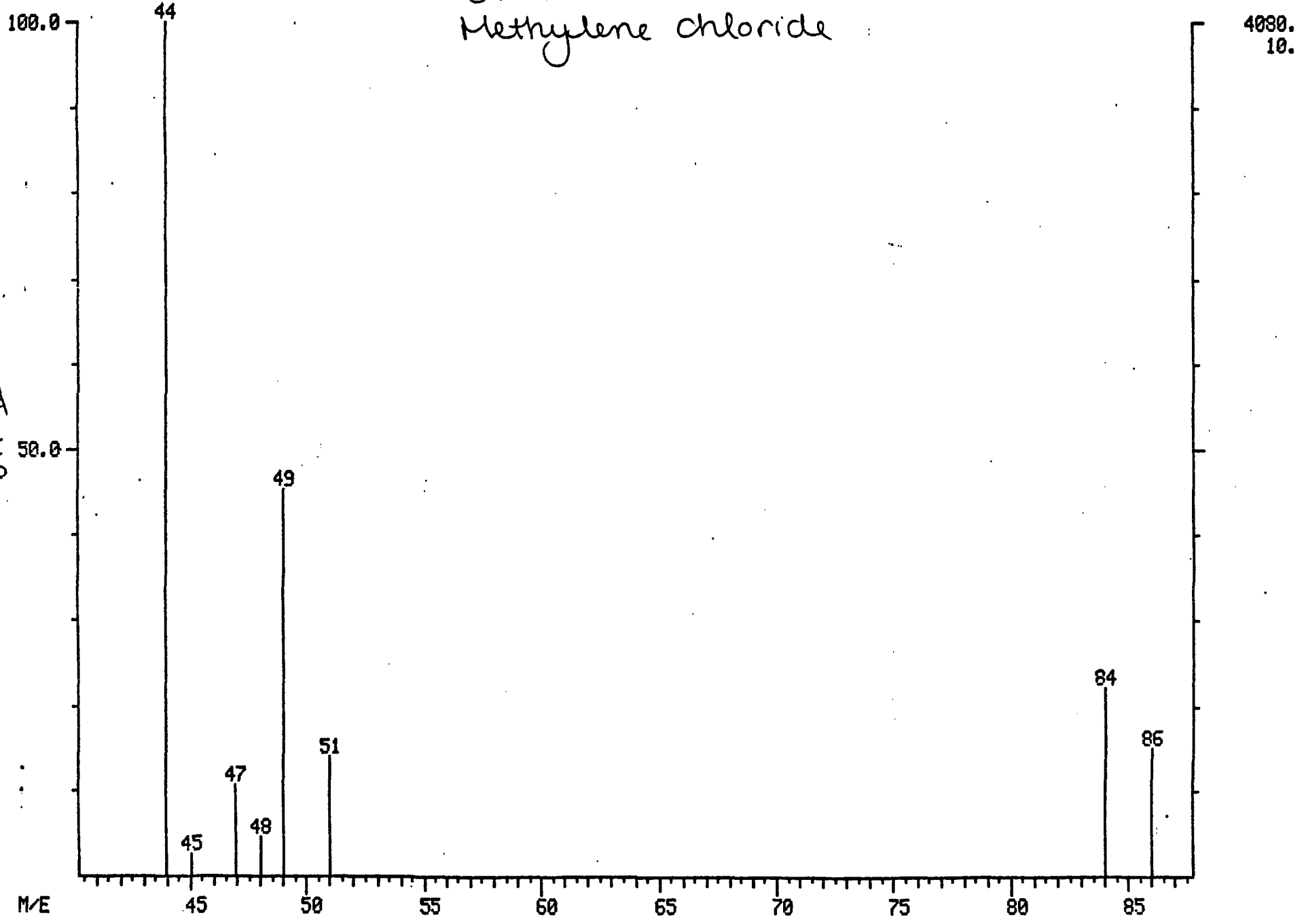


MASS SPECTRUM
03/04/85 19:52:00 + 8:39
SAMPLE: 43252 case 3969 AB-028

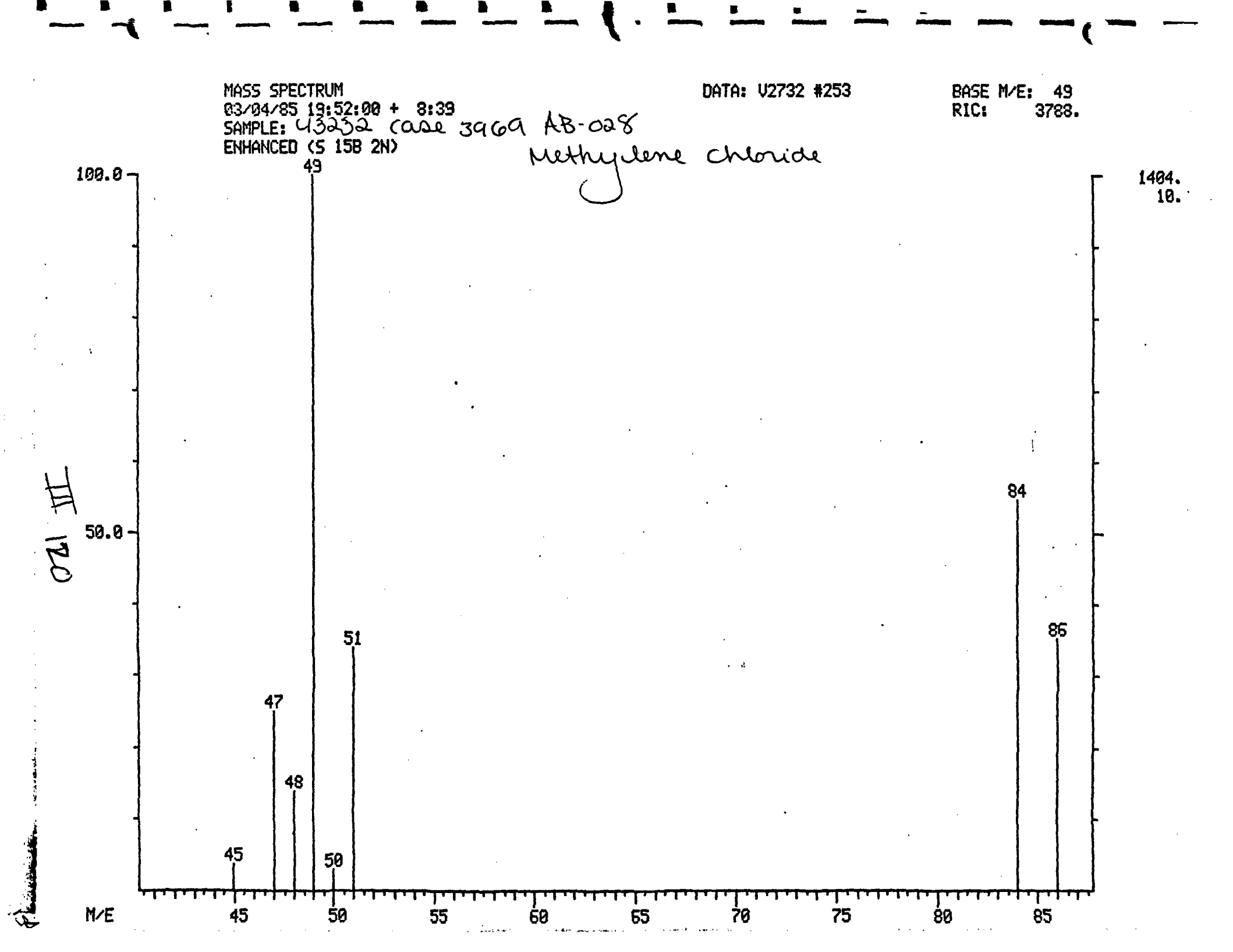
DATA: V2732 #253

BASE M/E: 44
RIC: 8768.

Methylene chloride



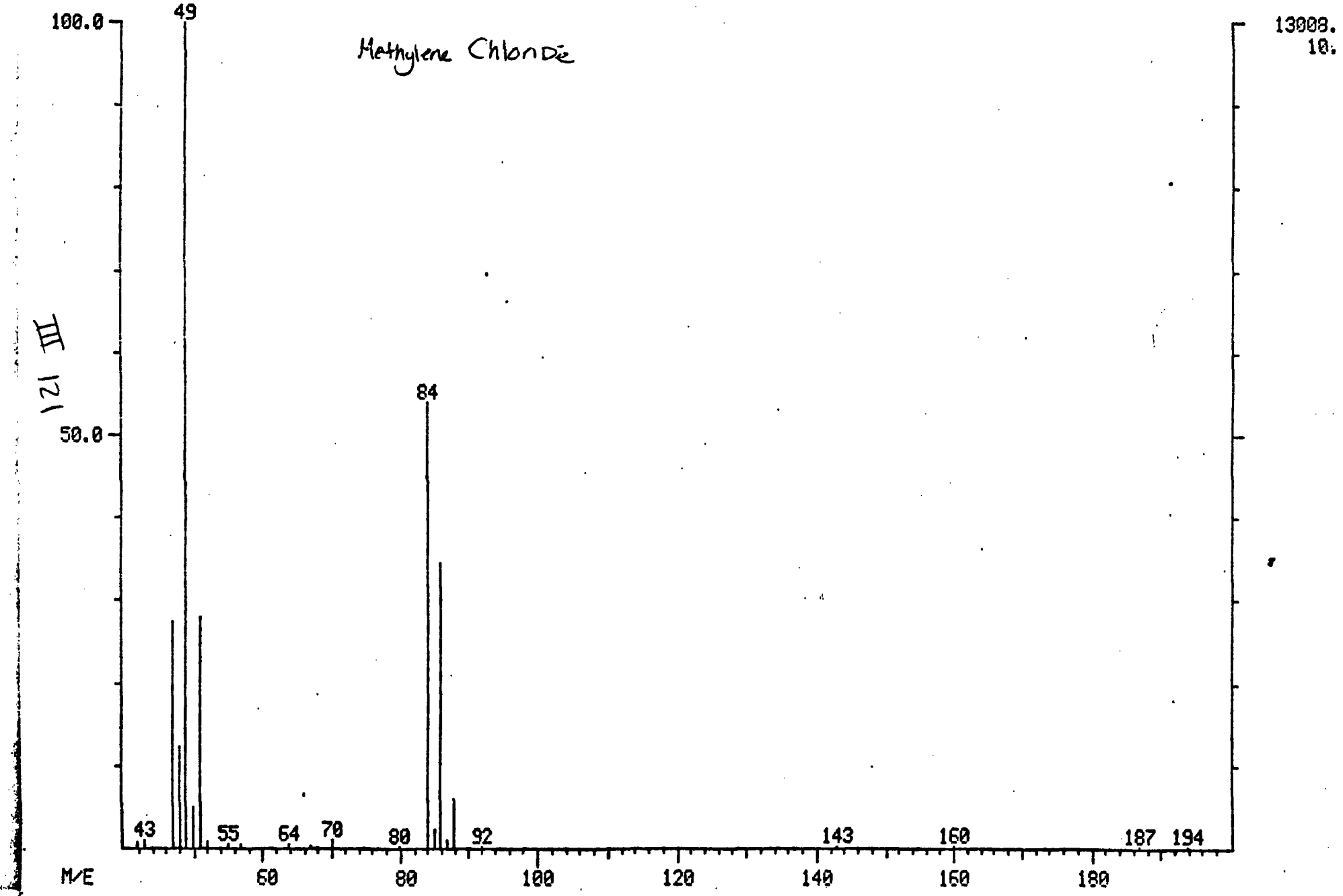
611 III


MASS SPECTRUM
03/04/85 19:52:00 + 8:39
SAMPLE: 43232 case 3969 AB-028
ENHANCED (5 15B 2N)
Methylene chloride
DATA: V2732 #253
BASE M/E: 49
RIC: 3788.
100.0
50.0
1404.
10.
49
84
86
51
47
48
45
50
M/E
45
50
55
60
65
70
75
80
85
021 III

MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)

DATA: V2708 #248

BASE M/E: 49
RIC: 36224.



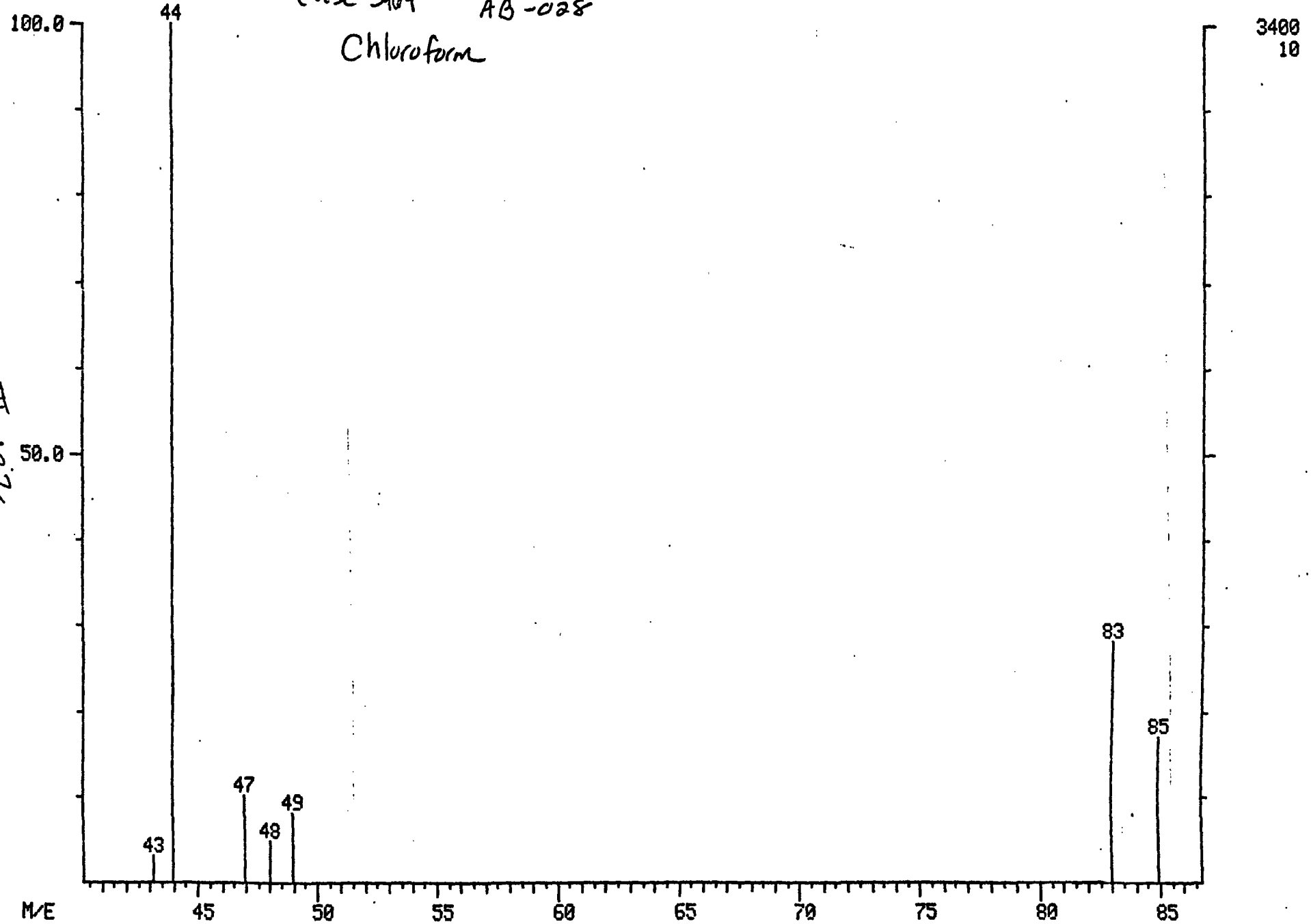
Methylene Chloride

121 III

MASS SPECTRUM
03/04/85 20:35:00 + 13:24
SAMPLE: Case 3469 AB-028

DATA: V2733 #392

BASE M/E: 44
RIC: 5848.

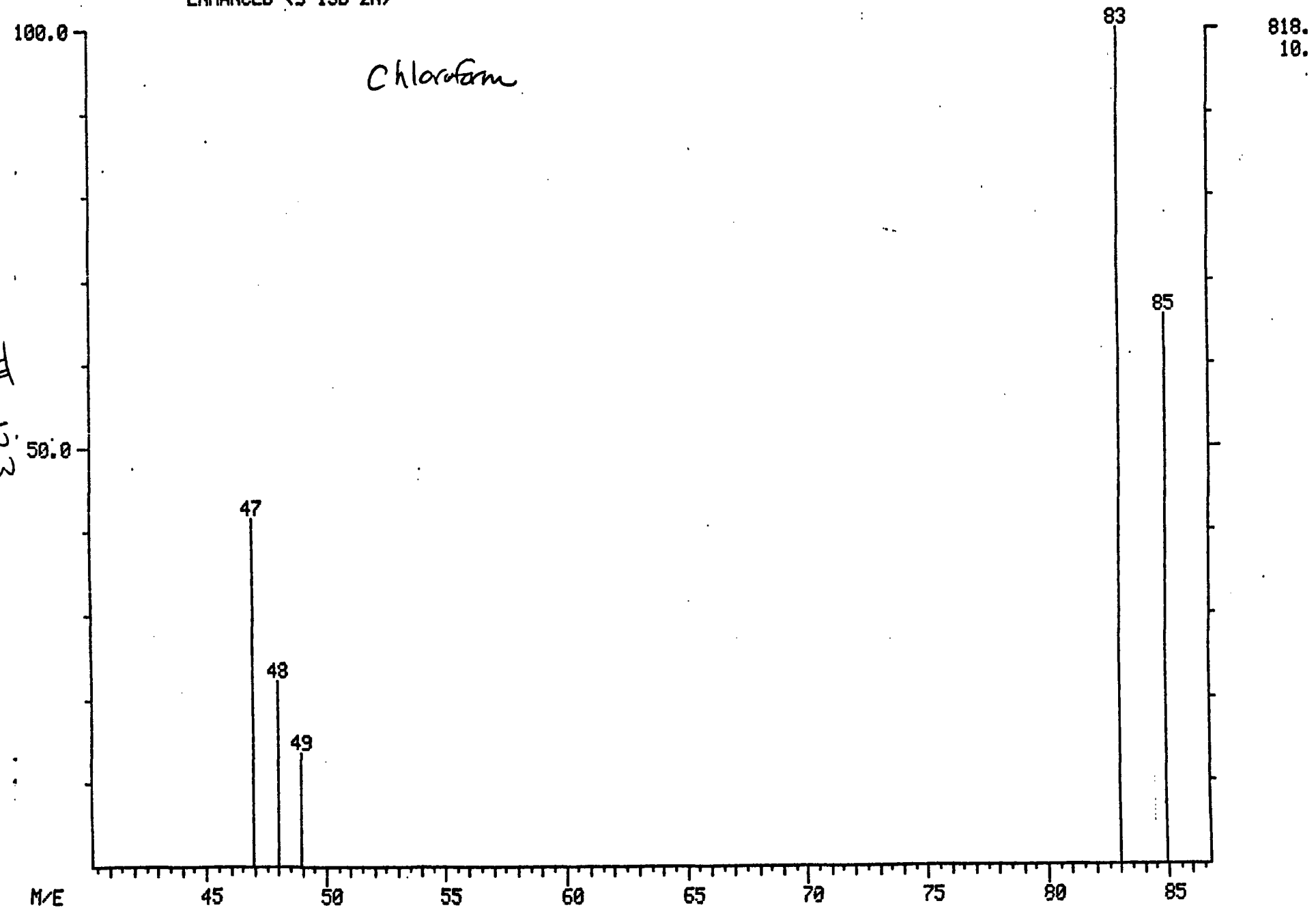


III 12.2

MASS SPECTRUM
03/04/85 20:35:00 + 13:24
SAMPLE:
ENHANCED (S 15B 2N) Case 3969 AO-028

DATA: V2733 #392

BASE M/E: 83
RIC: 1932.



Chloroform

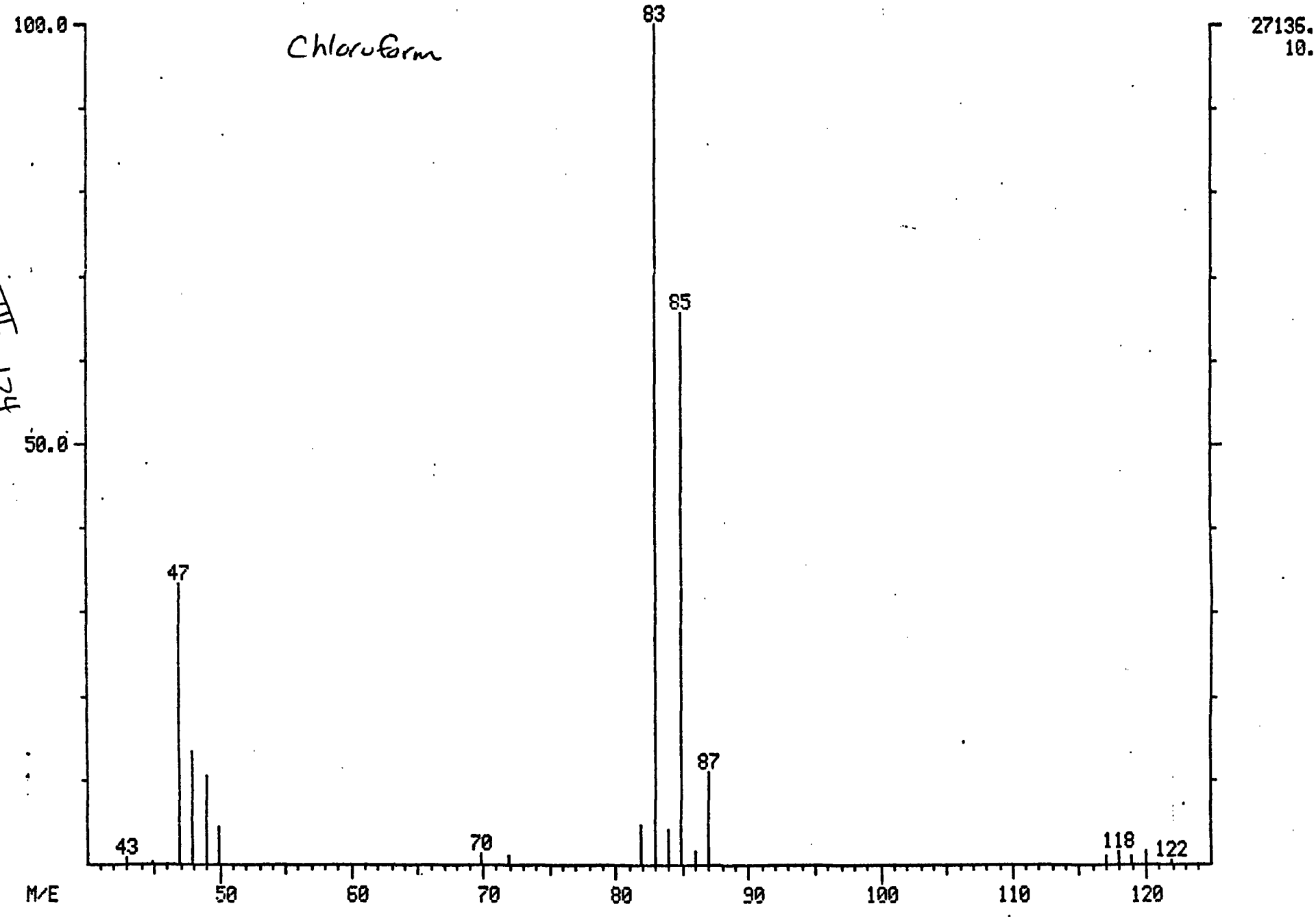
II 123

MASS SPECTRUM
03/05/85 10:58:00 + 13:17
SAMPLE: 50 PPB STD 3/5/85
ENHANCED (S 15B 2N)

Case 3969

DATA: V2737 #389

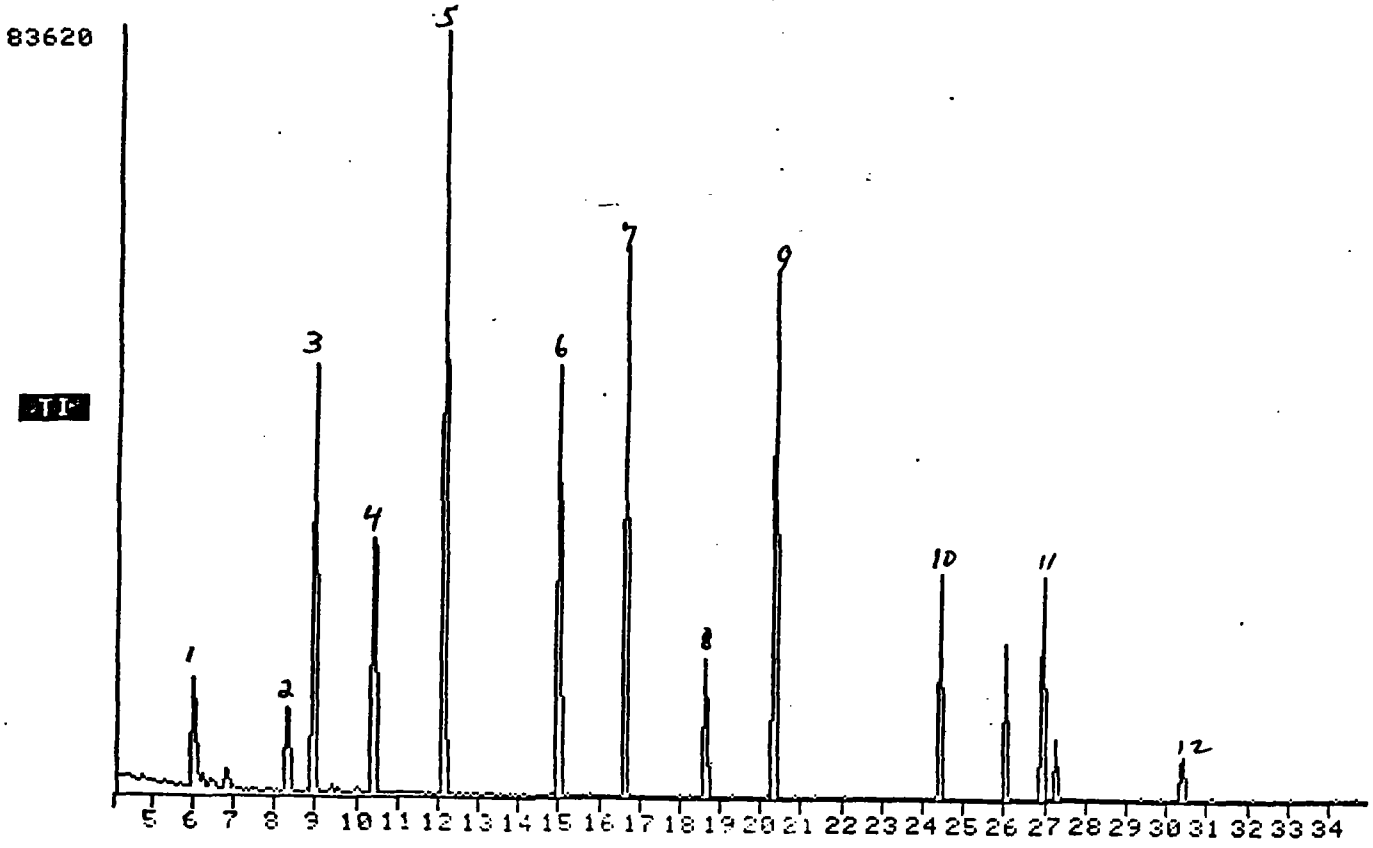
BASE M/E: 83
RIC: 69888.



124 III

NAME 43218 AB028 CASE 3969
MISC 3/25/85/EM BTL#21 Q14762 D14762

FRN 14762



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

III 125

FILE NUMBER 14762

43218 AB028 CASE 3969

3/25/85/EM BTL#21 Q14762 D14762

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
9.9	74.0	.046	.0000	N-NITROSODIMETHYLAMINE			
8.4	93.0	.913	.0000	ANILINE			
8.5	93.0	.709	.0000	BIS(2-CHLOROETHYL)ETHER			
8.9	146.0	.591	.0000	1,3-DICHLOROBENZENE			
9.0	146.0	.594	.0000	1,4-DICHLOROBENZENE			
9.5	108.0	.395	.0000	BENZYL ALCOHOL			
9.5	146.0	.594	.0000	1,2-DICHLOROBENZENE			
9.9	45.0	.527	.0000	BIS(2-CHLOROISOPROPYL)ETHER			
10.2	70.0	.490	.0000	N-NITROSODINPROPYLAMINE			
10.2	117.0	.291	.0000	HEXACHLOROETHANE			
10.5	77.0	.716	.0000	NITROBENZENE			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.1	138.0	1.519	.0000	ISOPHORONE			
11.8	95.0	1.813	.0000	BIS(2-CHLOROETHOXY)METHANE			
12.1	180.0	2.642	.0000	1,2,4-TRICHLOROBENZENE			
12.2	129.0	1.325	.0000	NAPHTHALENE			
12.5	127.0	4.577	.0000	4-CHLOROANILINE			
12.7	225.0	1.190	.0000	HEXACHLOROBUTADIENE			
14.0	115.0	2.578	.0000	2-METHYLNAPHTHALENE			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE			
14.6	237.0	.205	.0000	HEXACHLOROCYCLOPENTADIENE			
15.2	164.0	.281	.0000	2-CHLORONAPTHALENE			
15.6	138.0	.397	.0000	2-NITROANILINE			
16.2	164.0	.083	.0000	DIMETHYL PHTHALATE			
16.3	151.0	.272	.0000	ACENAPHTHYLENE			
16.4	165.0	.228	.0000	2,6-DINITROTOLUENE			
16.7	138.0	.293	.0000	3-NITROANILINE			
16.8	152.0	.437	.0000	ACENAPHTHENE			
17.2	139.0	.490	.0000	DIBENZOFURAN			
17.3	165.0	.320	.0000	2,4-DINITROTOLUENE			
18.0	177.0	.171	.0000	DIETHYL PHTHALATE			
18.0	165.0	.820	.0000	FLUORENE			
18.1	204.0	.358	.0000	4-CHLOROPHENYLPHENYL ETHER			
18.2	138.0	.292	.0000	4-NITROANILINE			
17.2	169.0	.144	.0000	DIPHENYLAMINE			

III 126

43218 AB028 CASE 3969
3/25/85/EM BTL#21 Q14762 D14762

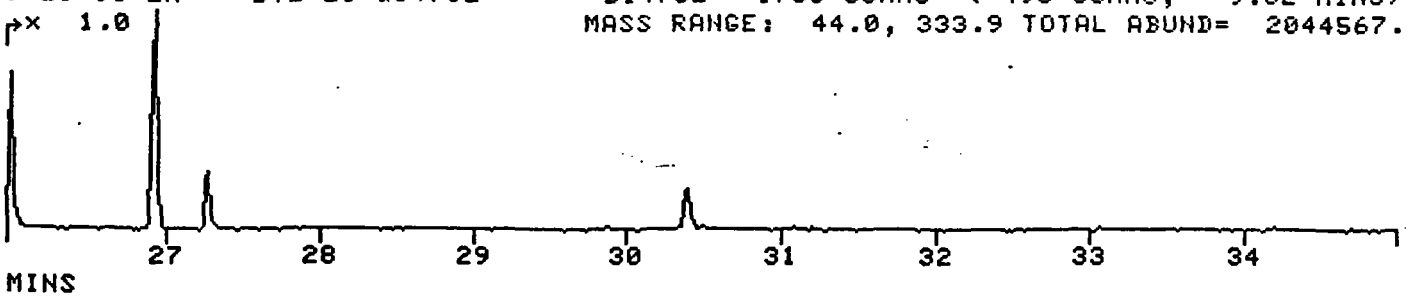
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	19.2773	BIS(2-ETHYLHEXYL)PHTHALATE			
30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	.0000	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

III 127

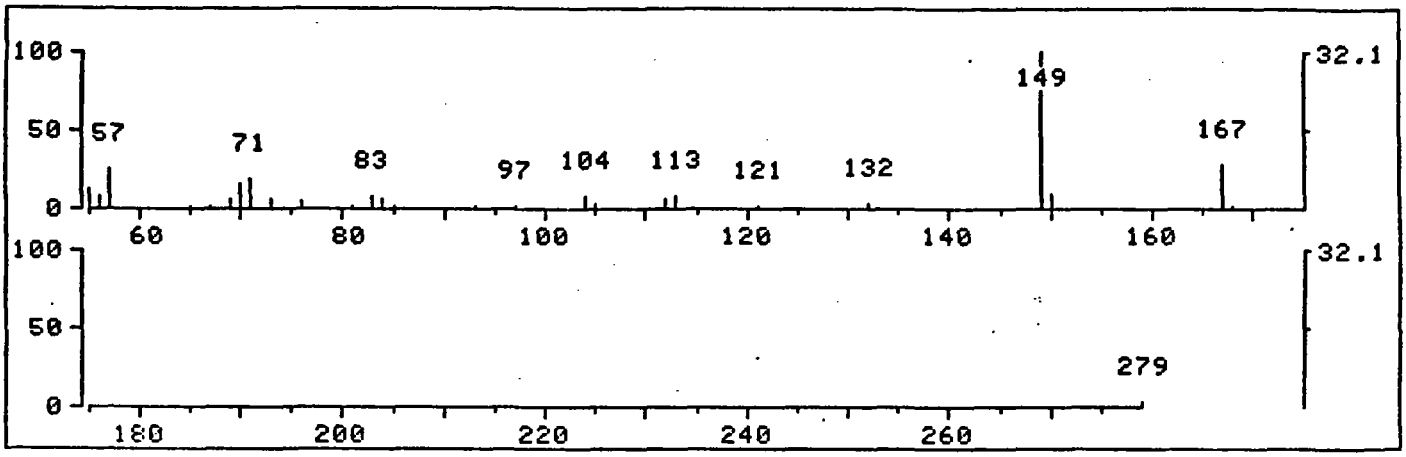
43218 AB028 CASE 3969
3/25/85/EM BTL#21 Q14762 D14762

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

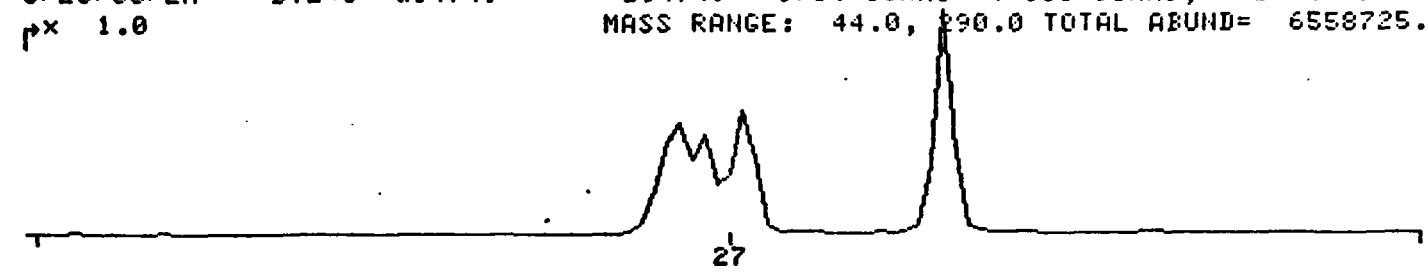
43218 AB028 CASE 3969
3/25/85/EM BTL#21 Q14762 D14762 1706 SCANS (498 SCANS, 9.02 MINS)
FRN 14762, CRN 10
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2044567.



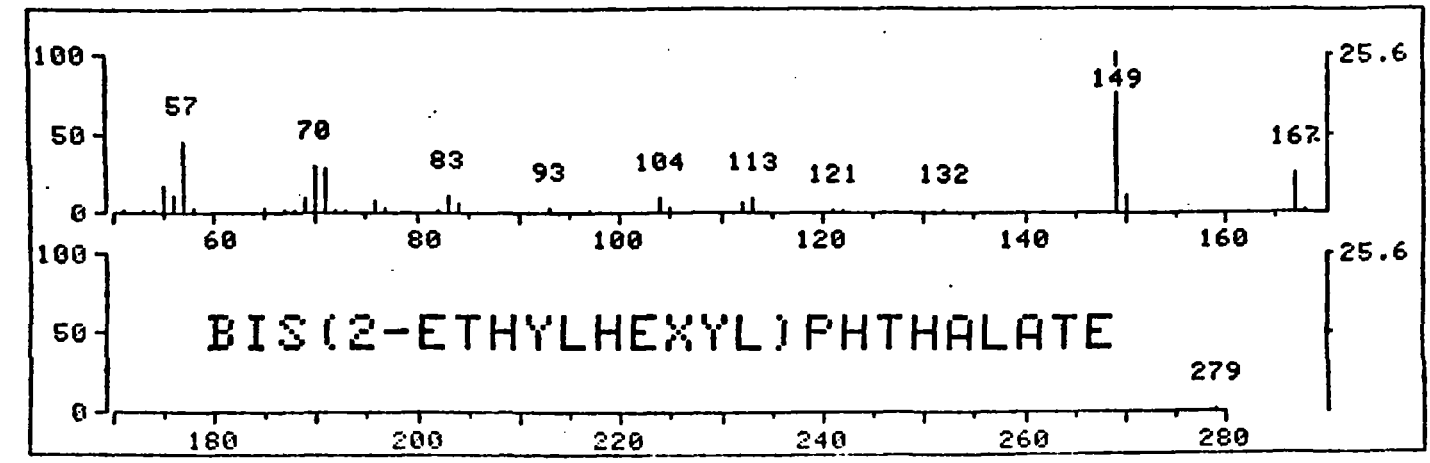
*1281 RET. TIME: 27.30 TOT ABUND= 6833. BASE PK/ABUND: 149.1/ 2191.



80BN
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (111 SCANS, 2.02 MINS)
FRN 14749, CRN 7
MASS RANGE: 44.0, 390.0 TOTAL ABUND= 6558725.

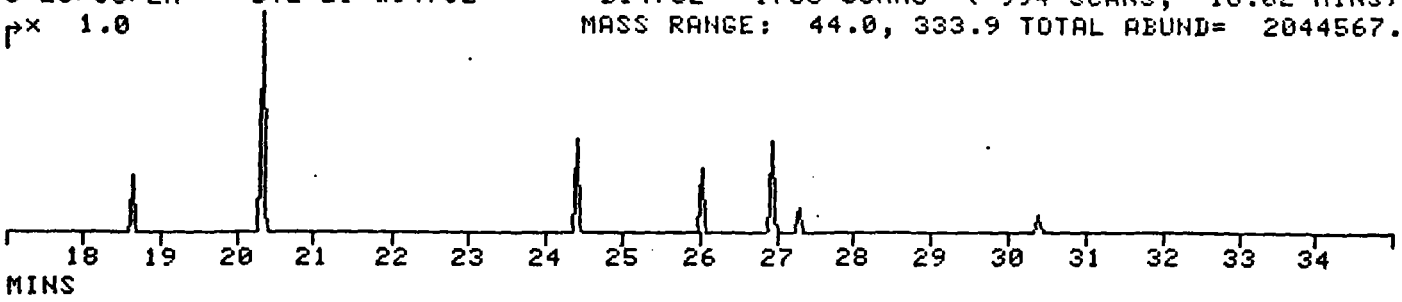


*1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.

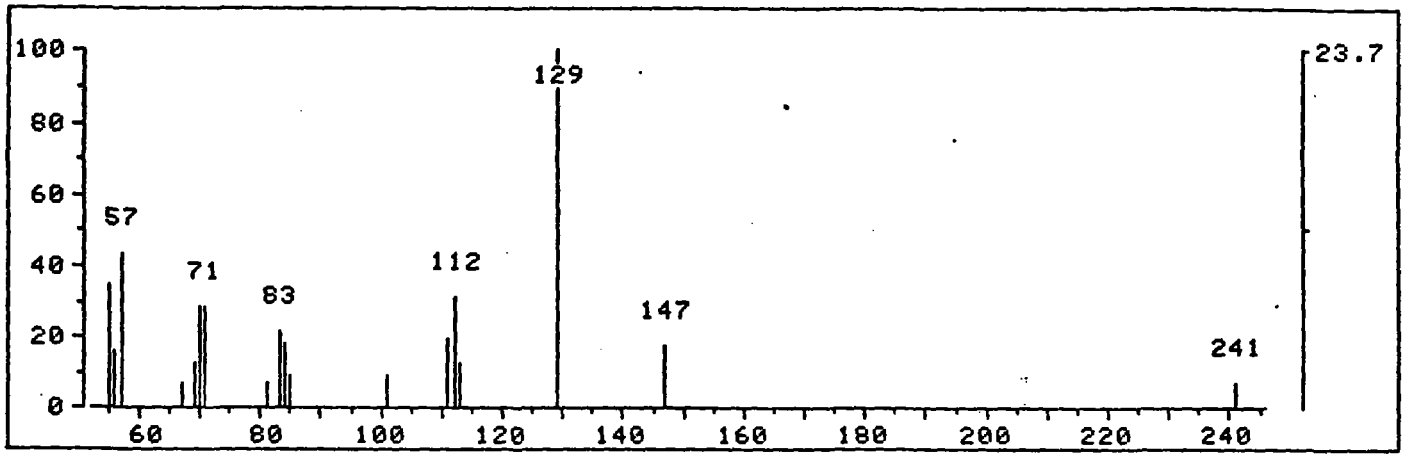


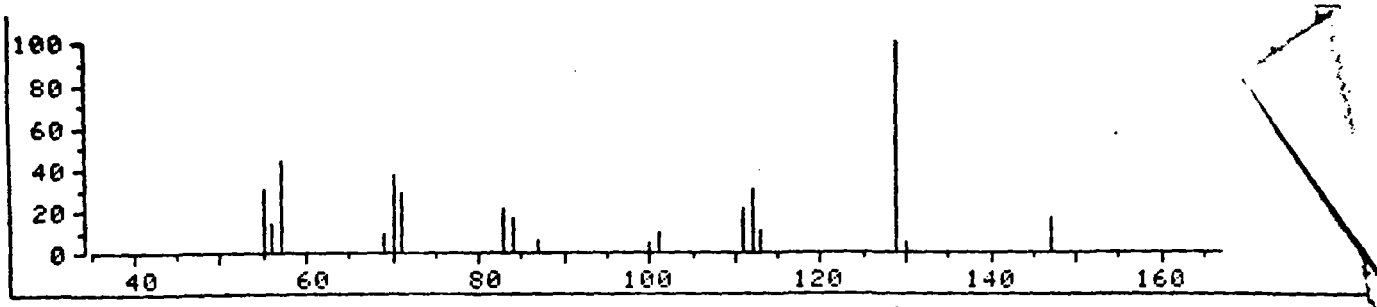
III 129

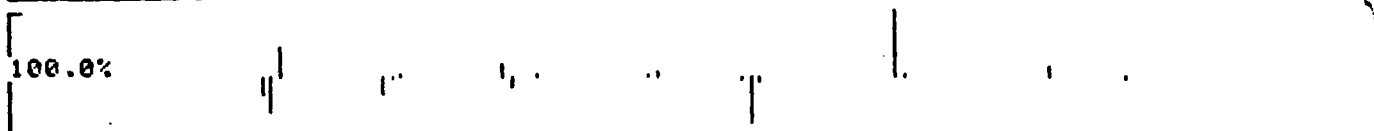
43218 AB028 CASE 3969
3/25/85/EM BTL#21 Q14762 D14762 1706 SCANS (994 SCANS, 18.02 MINS)
FRN 14762, CRN 10
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2044567.



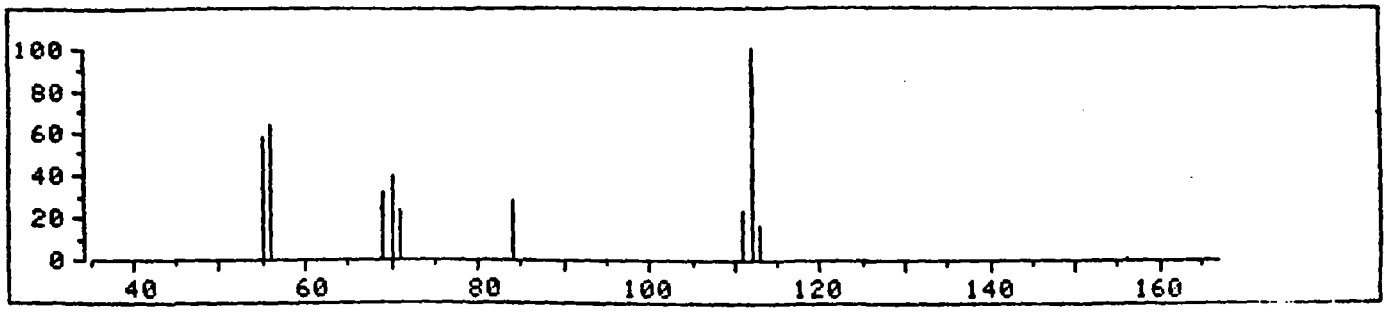
*1212 RET. TIME: 26.05 TOT ABUND= 3082. BASE PK/ABUND: 129.1/ 729.







* 1 LFRN 3005 SPECT 111 MW= 156 C7H13BO3
.9784 Lactic acid, monoanhydride with 1-butaneboronic acid, cyclic ester (8CI)



III 1·30

AREA TABLE ENTRIES: FRN 14762

Entry	Time	Mass	Area	%
1	26.9	239.7	15006.	100.0
2	26.0	TI	28634.	190.8

CALCULATE % ON ENTRY #:

III 131

Date 4/1/85 Analyst BC Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

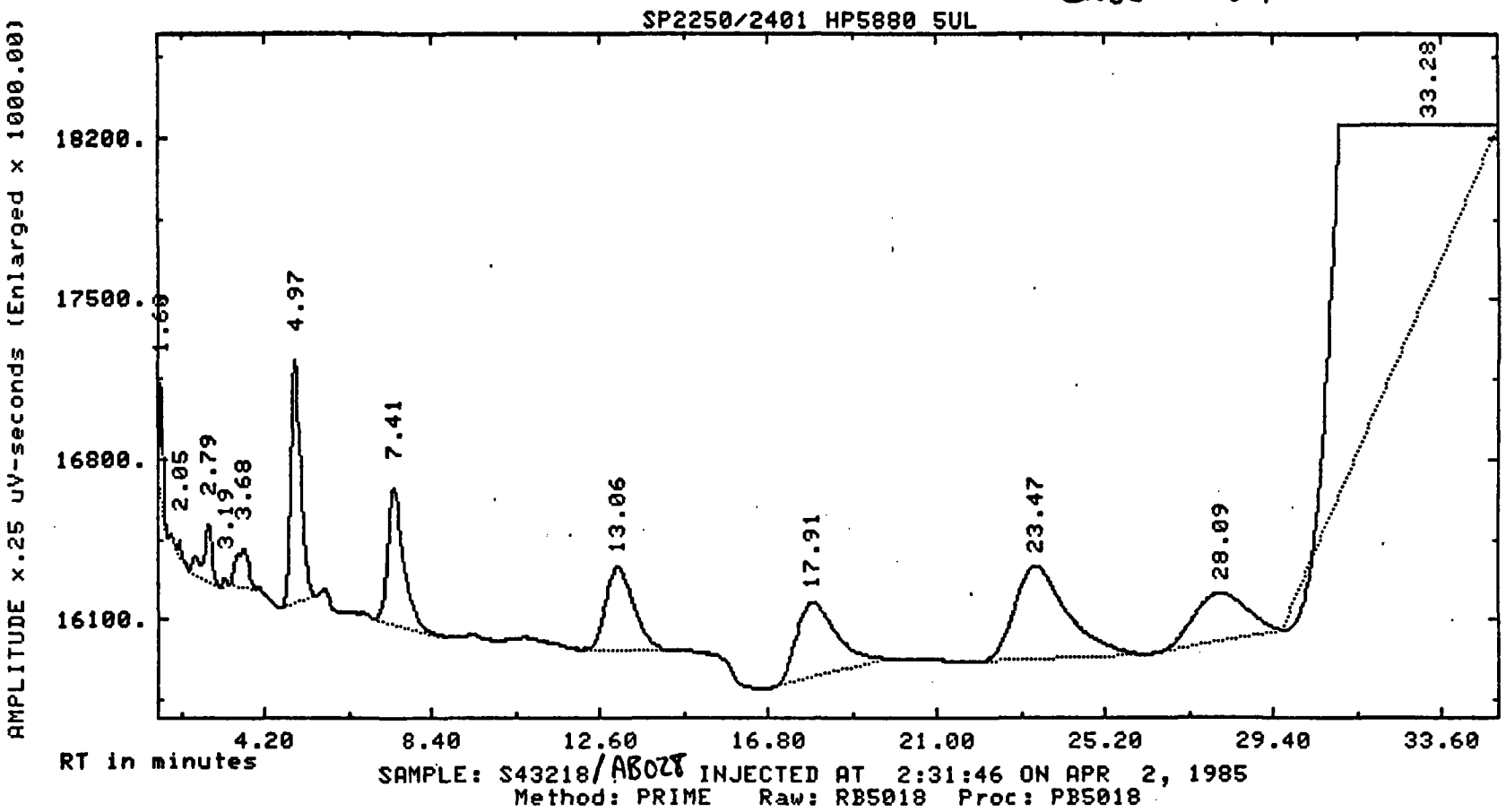
Case # 3969

Sample I.D. 43218 / AB028 HP 5880
Run # 19 Bottle # 18

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
3.19	Heptachlor	0.145	<5.0 x	10 ÷ 1000 =	<0.05	
	DBC observed by peak			at 33 min		

GCA CORPORATION
Technology Division

Case 3969



III 133

*LI,P,PB5018

PROCESSED DATA FILE: PB5018 ON CRN 21 Case 3969

APR 2, 1985 9:15:44

REPORT: 161 CHANNEL: 2 # PEAKS: -14 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.30	0.00	1.00000	104	BV	.004	
2	1.44	0.00	1.00000	81	VB	.003	
3	1.60	0.00	1.00000	1537	BB	.054	
4	2.05	0.00	1.00000	191	BV	.007	
5	2.79	0.00	1.00000	2104	VV	.074	
6	3.19	0.00	1.00000	145	VB	.005	
7	3.68	0.00	1.00000	1766	BB	.063	
8	4.97	0.00	1.00000	9390	BB	.332	
9	7.41	0.00	1.00000	8426	BB	.298	
10	13.06	0.00	1.00000	8521	BB	.302	
11	17.91	0.00	1.00000	10966	BB	.388	
12	23.47	0.00	1.00000	18204	BB	.644	
13	28.09	0.00	1.00000	9356	BV	.331	
14	33.28	0.00	1.00000	2754492	VF	97.494	

TOTAL AREA = 2825284 TOTAL AREA % = 100.000

SAMPLE: S43218/AB028 INJECTED AT 2:31:46 ON APR 2, 1985

ZERO METHOD: PRIME SEQ: SM03A SUBSQ/SAMP: 1 / 18 BTL: 18

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	YES

ACTUAL RUN TIME: 40.017 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: RB5018 PARAM FILES= METHOD: SEQ:

DONE
READY

① Case Number: 3969 Sample Site Name/Code:	② SAMPLE CONCENTRATION (Check One) ✓ Low Concentration ___ Medium Concentration ③ SAMPLE MATRIX (Check One) ✓ Water ___ Soil/Sediment	④ Ship To: [illegible] Attn: [redacted] Transfer Ship To:

⑤ Regional Office: ______

Sampling Personnel: John Williams (Name)

(617) 742-5151 (Phone)

Sampling Date: 2/28/85 (Begin) 2/28/85 (End)

⑦ Shipping Information

Hand-Carried
Name of Carrier

Date Shipped:

Airbill Number:

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: A. [illegible] Date Rec'd: 3/1/85 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)	2	80 oz	No sample tags
Water (VOA)	2	40 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑧ Sample Description

___ Surface Water ___ Mixed Media

✓ Ground Water ___ Solids

___ Leachate ___ Other (specify) ______

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MAA027.

LAB FILE COPY

Laboratory Name: GCA

Lab Sample ID No. 43233

Sample Matrix water

Data Release Authorized By

Case No 3969

QC Report No 3969

Contract No 68-01-6767

Date Sample Received 3/1/85

AB-029

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 3/4/85

Date Analyzed 3/4/85

Conc/Dil Factor: 1 pH NA

Percent Moisture NA

Percent Moisture (Decanted) NA

E. 5/2/85

R=Reject

CAS Number		(ug/L) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	23 R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		(ug/L) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	7.8
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	* 5U Cn

Data Reporting Qualifiers

[illegible]

* See narrative

Value If the result is a value greater than or equal to the detection limit, report the value [illegible]

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) [illegible]

J Indicates an estimated value. [illegible]

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. [illegible]

B This flag is used when the analyte is found in the blank as well as a sample. [illegible]

Other [illegible]

III 136

P. O Box 818, Alexandria, Virginia 22313 703/557-2490

AB 029

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0 l → 1.0 ml

ETmm 5/2/85 R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		(ug/l) or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6 Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	11 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB029

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 4/1/85

Conc/Dil Factor: 1

CT mm 3/5/85

NA = Not Analyzed

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4, 4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4, 4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

JM Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

AB 029

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

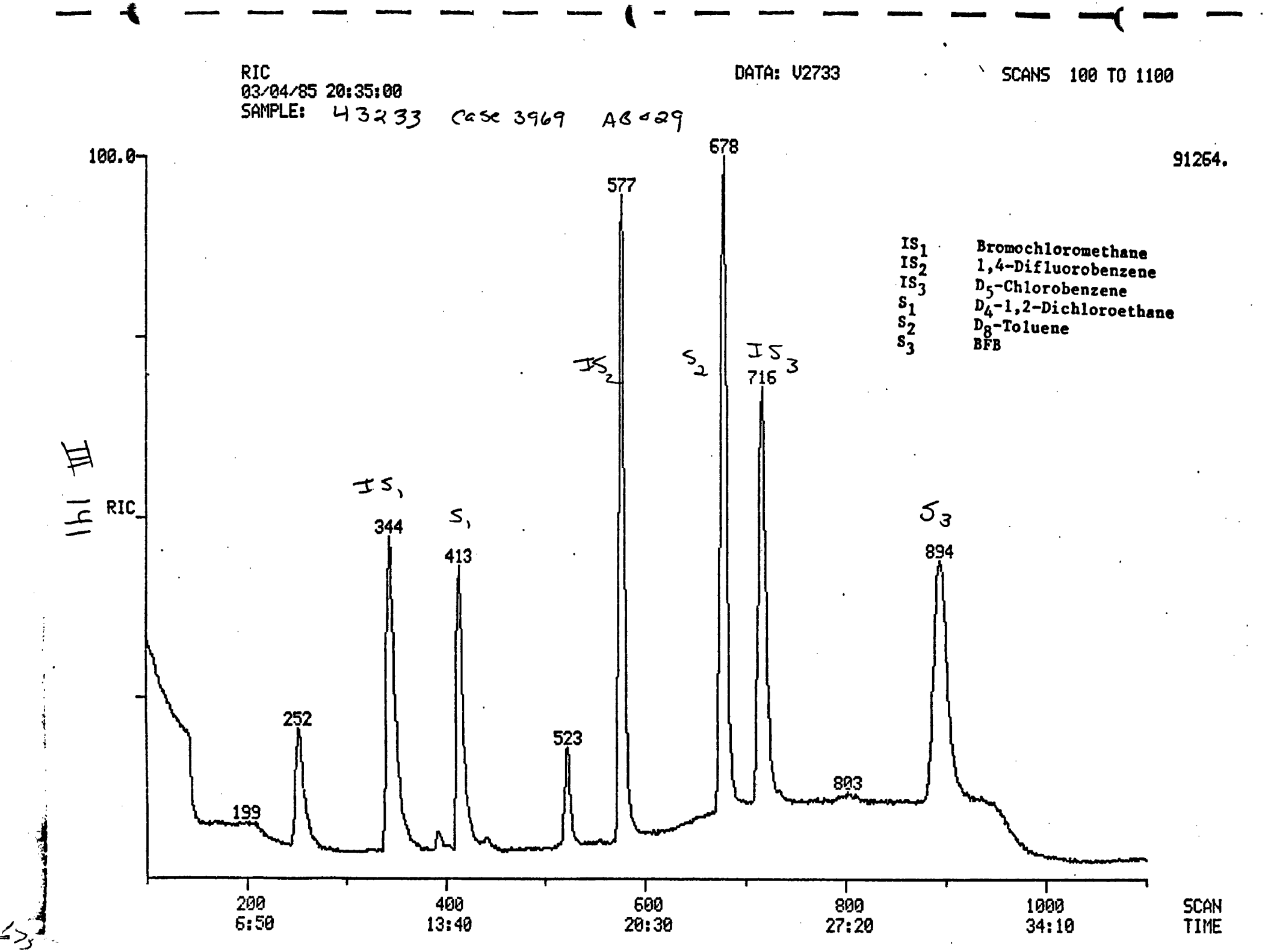
	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Organics Found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

AB 029

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	BNA	26.0	151 J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


RIC
03/04/85 20:35:00
SAMPLE: 43233 Case 3969 AB029
DATA: V2733
SCANS 100 TO 1100
100.0
91264.
RIC
IS1
IS2
IS3
S1
S2
S3
344
413
577
678
716
894
252
523
803
199
IS1 Bromochloromethane
IS2 1,4-Difluorobenzene
IS3 D5-Chlorobenzene
S1 D4-1,2-Dichloroethane
S2 D8-Toluene
S3 BFB
200
6:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	BROMOCHLOROMETHANE(I. S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1, 1-DICHLOROETHENE
10	1, 1-DICHLOROETHANE
11	TRANS 1, 2-DICHLOROETHENE
12	CHLOROFORM
13	1, 2-DICHLOROETHANE
14	D4-1, 2-DICHLOROETHANE
15	1, 1, 1-TRICHLOROETHANE
16	1, 4-DIFLUROBENZENE(I. S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1, 2-DICHLOROPROPANE
22	TRANS 1, 3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1, 1, 2-TRICHLOROETHANE
26	BENZENE
27	CIS-1, 3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I. S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1, 1, 2, 2, TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

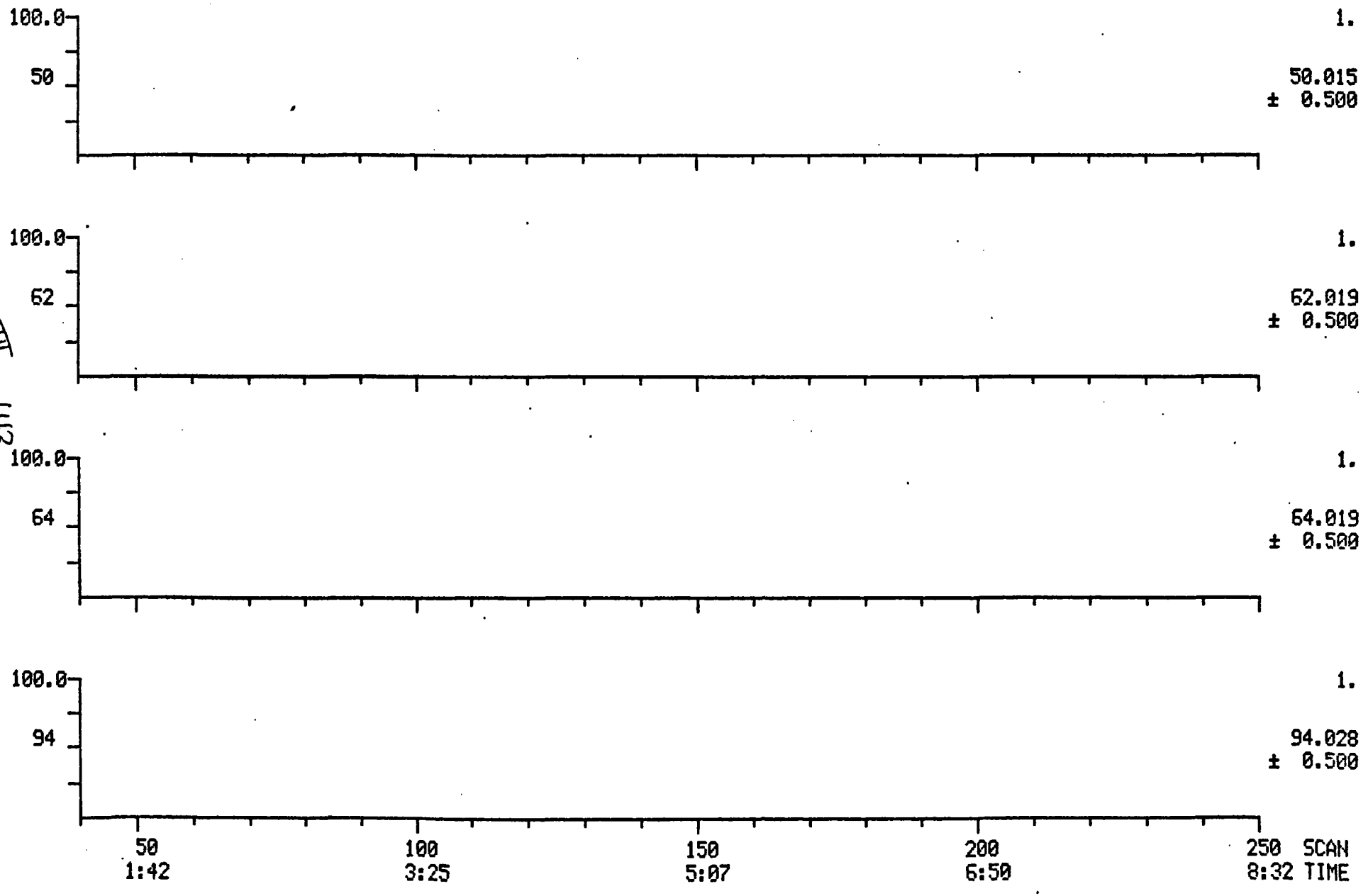
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	340	11:37	1	1.000	A BB	29880.	50.000 UG/L	2.38
2	50	64	2:11	1	0.188	A BB	32858.	50.000 UG/L	2.38
3	62	145	4:57	1	0.426	A BB	36722.	50.000 UG/L	2.38
4	94	111	3:48	1	0.326	A BB	35408.	50.000 UG/L	2.38
5	64	187	6:23	1	0.550	A BB	26953.	50.000 UG/L	2.38
6	84	249	8:30	1	0.732	A BB	66871.	50.000 UG/L	2.38
7	58	459	15:41	1	1.350	A BB	24325.	50.000 UG/L	2.38
8	76	305	10:25	1	0.897	A BB	106137.	50.000 UG/L	2.38
9	96	333	11:23	1	0.979	A BV	44879.	50.000 UG/L	2.38
10	63	367	12:32	1	1.079	A BV	119635.	50.000 UG/L	2.38

III 142

MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE: 43233 Case 3969 AB029

DATA: V2733

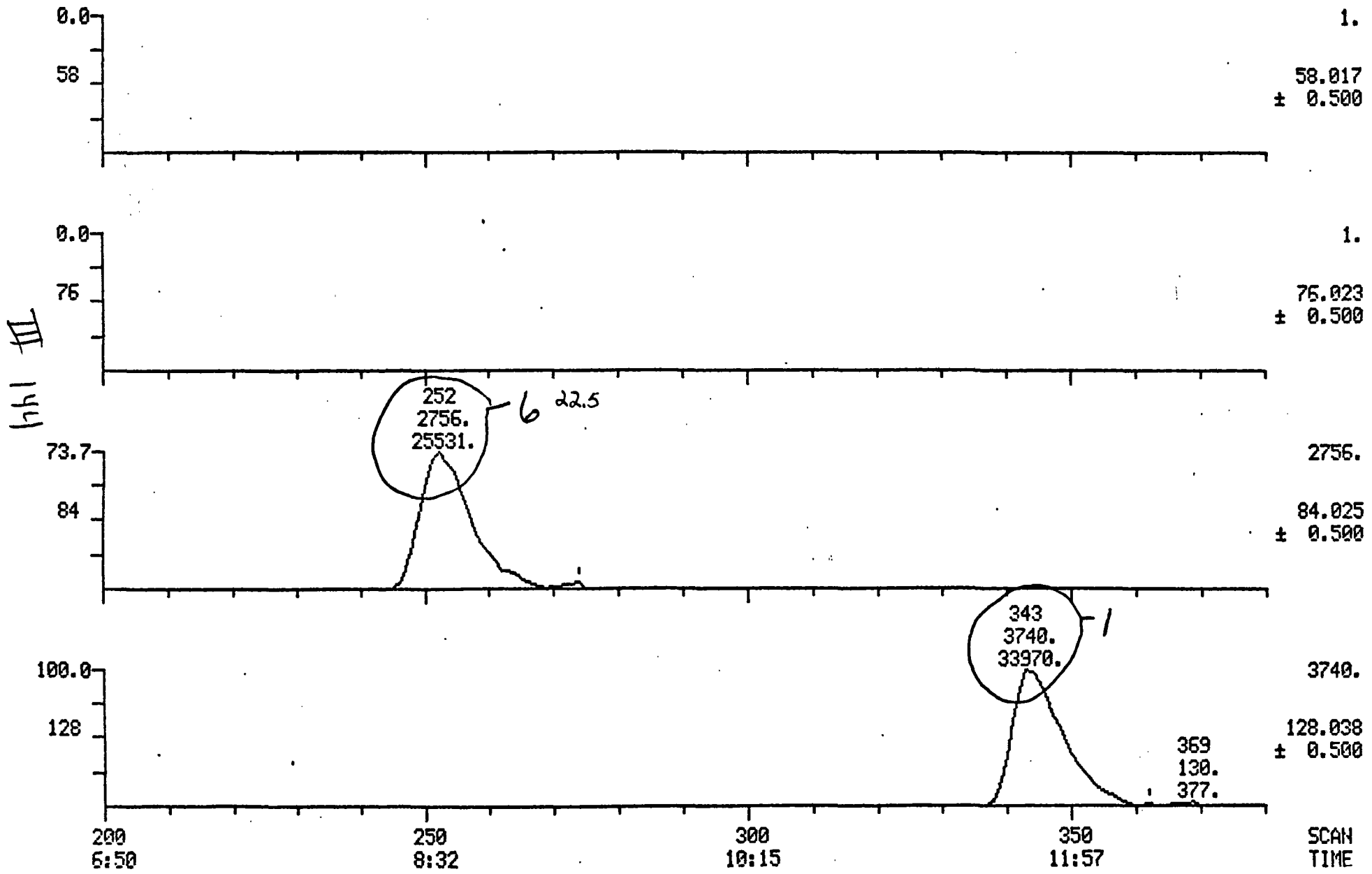
SCANS 40 TO 250

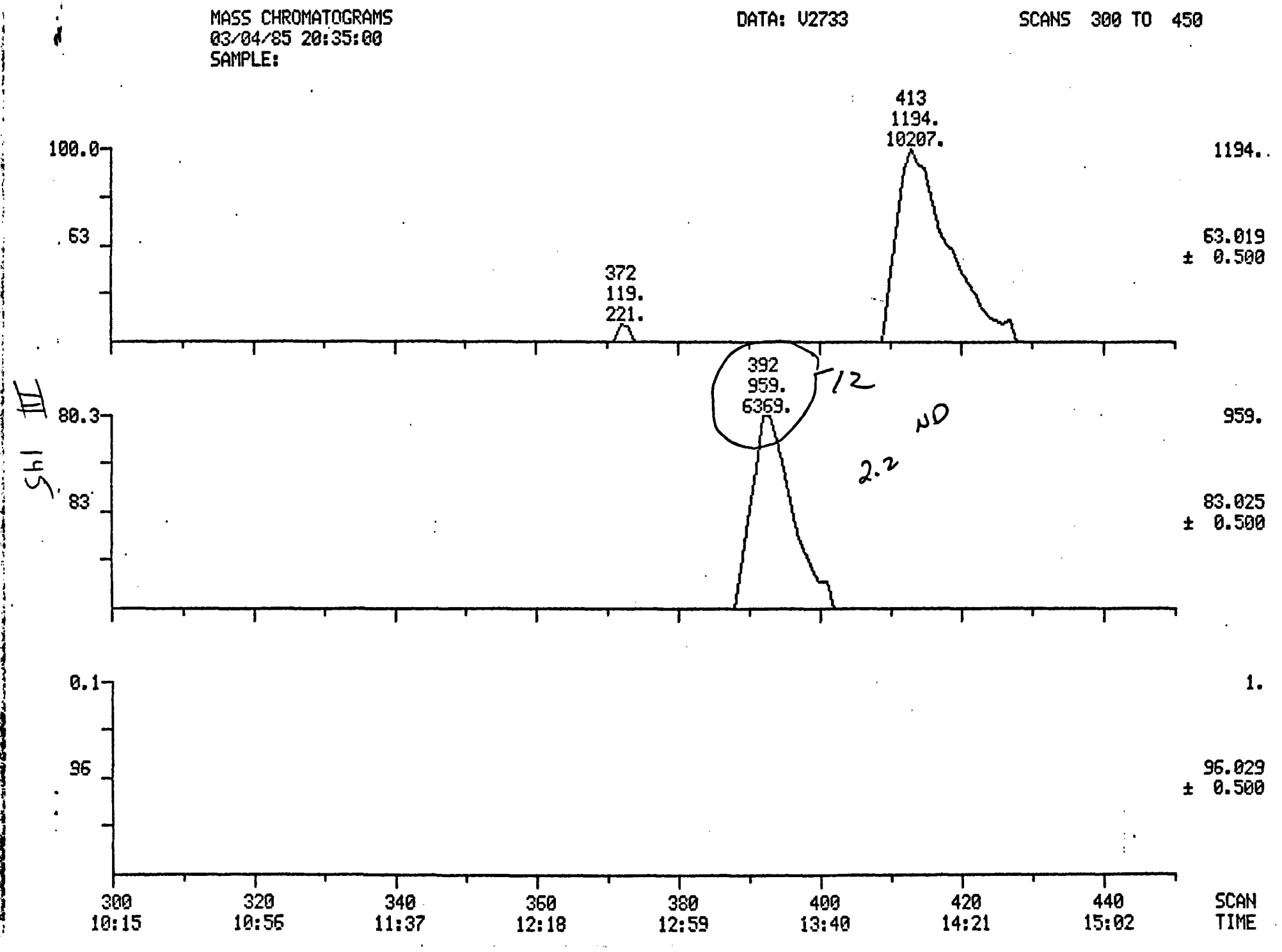


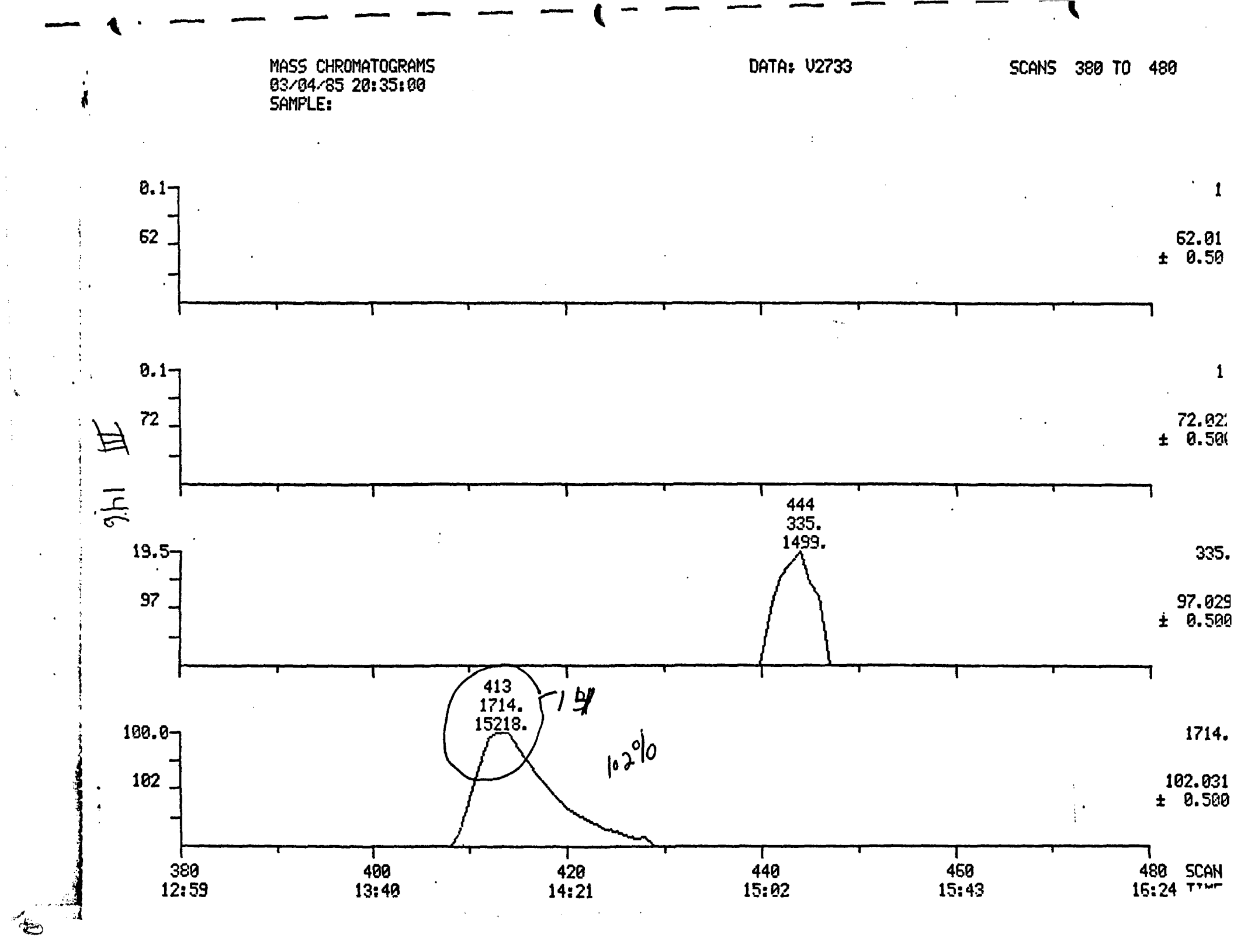
MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE: 43233 Case 3969 AB029

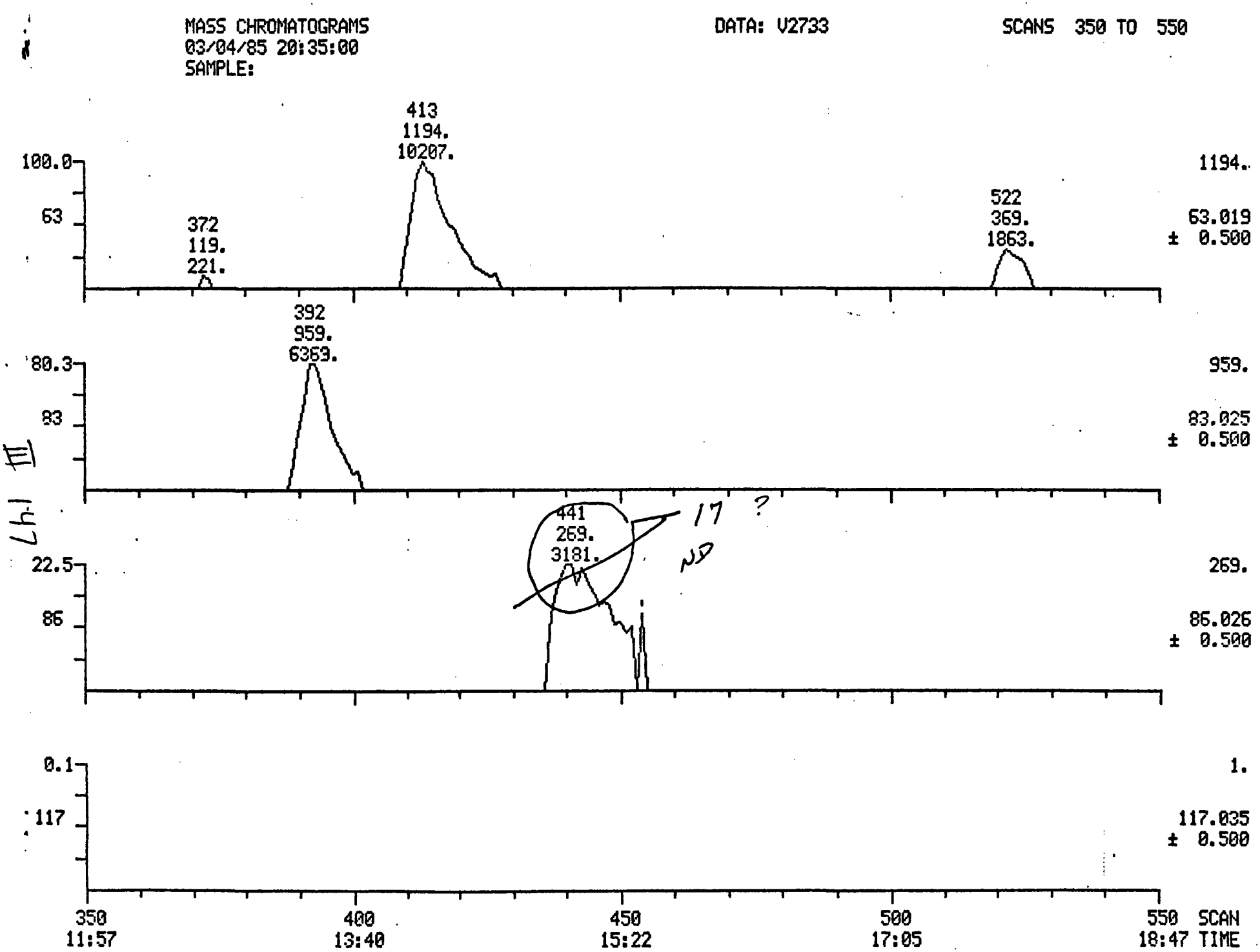
DATA: V2733

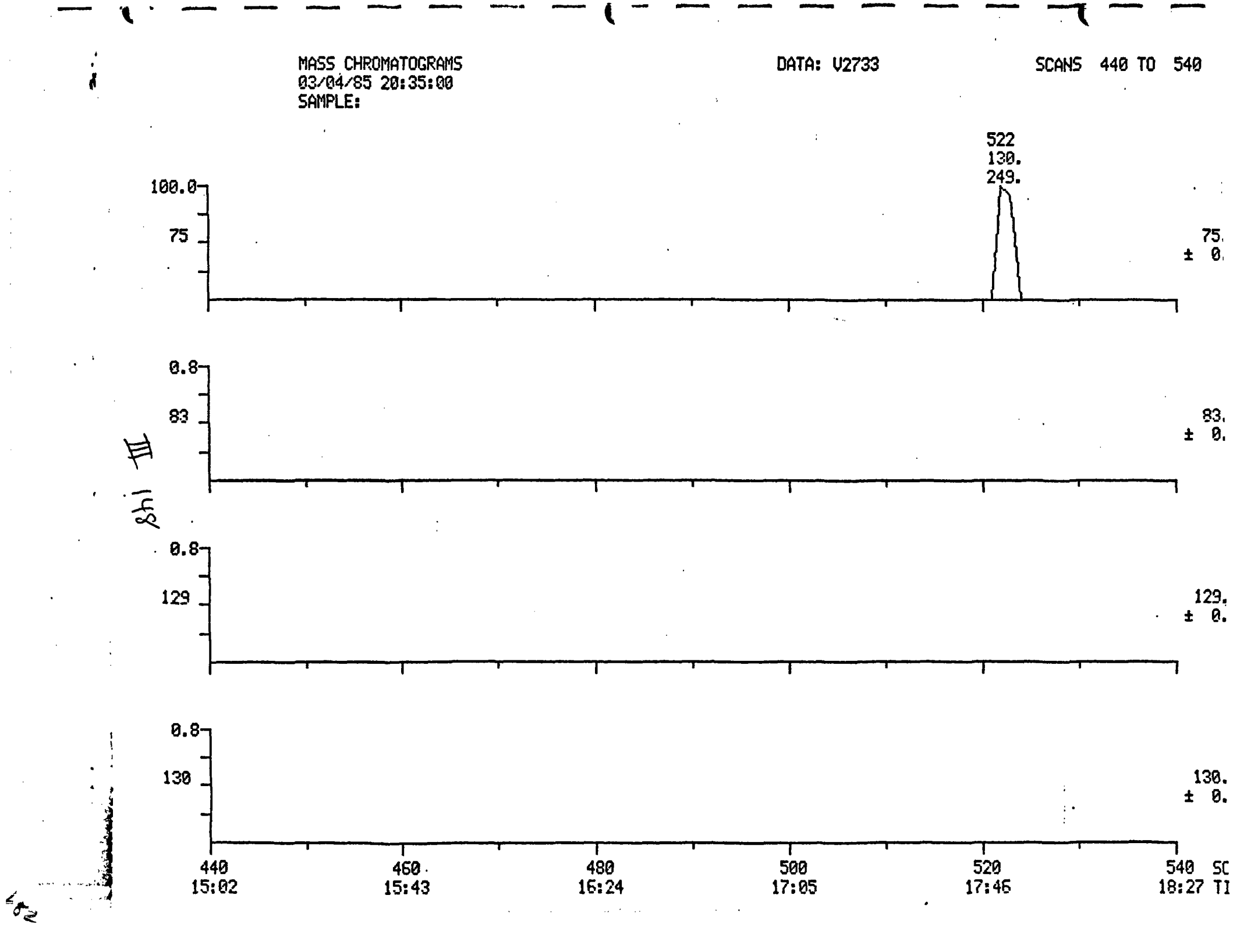
SCANS 200 TO 380

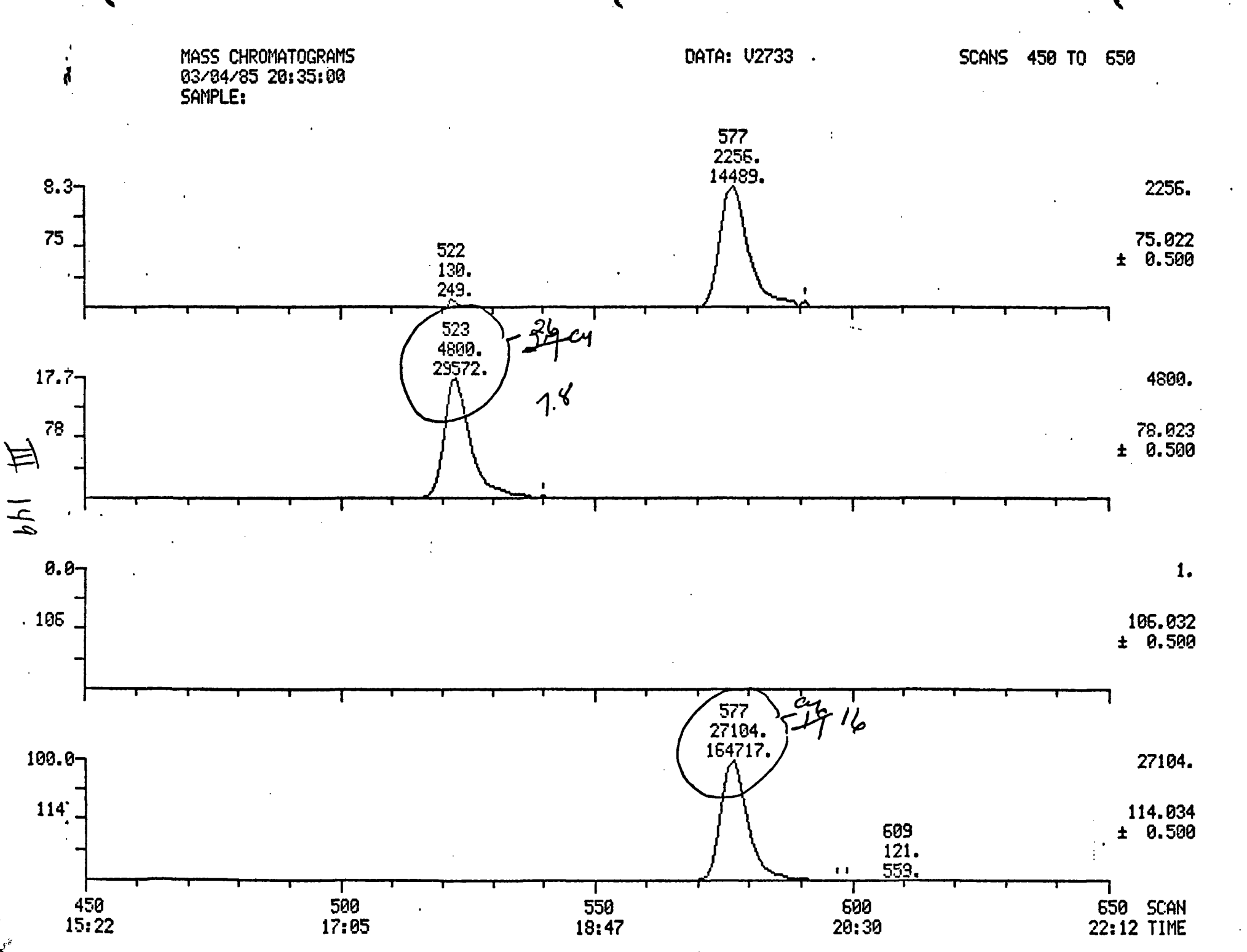


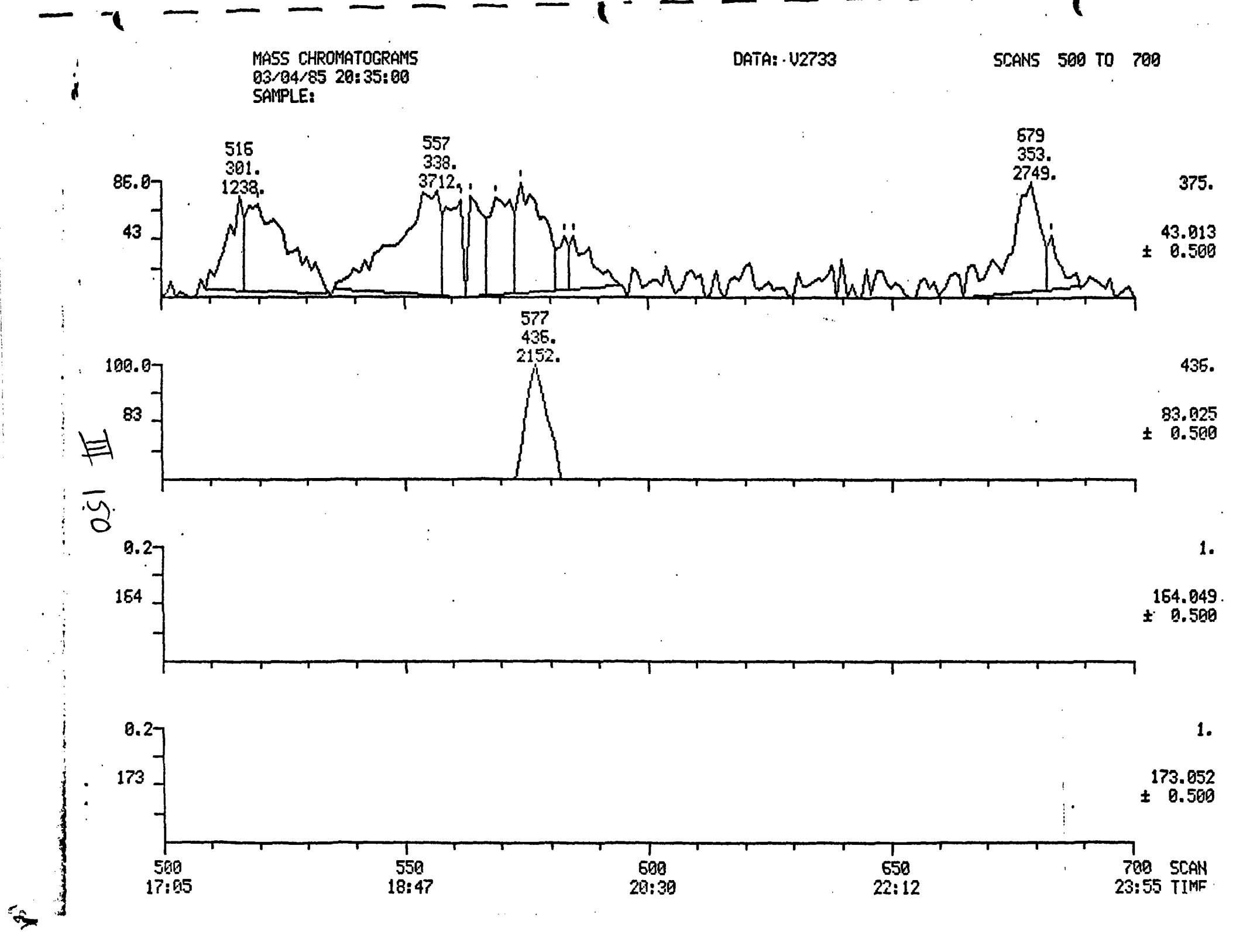

MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE:
DATA: V2733
SCANS 300 TO 450
413
1194.
10207.
372
119.
221.
392
959.
6369.
100.0
.63
80.3
83
0.1
96
1194.
63.019
± 0.500
959.
83.025
± 0.500
1.
96.029
± 0.500
300
10:15
320
10:56
340
11:37
360
12:18
380
12:59
400
13:40
420
14:21
440
15:02
SCAN
TIME
12
ND
2.2

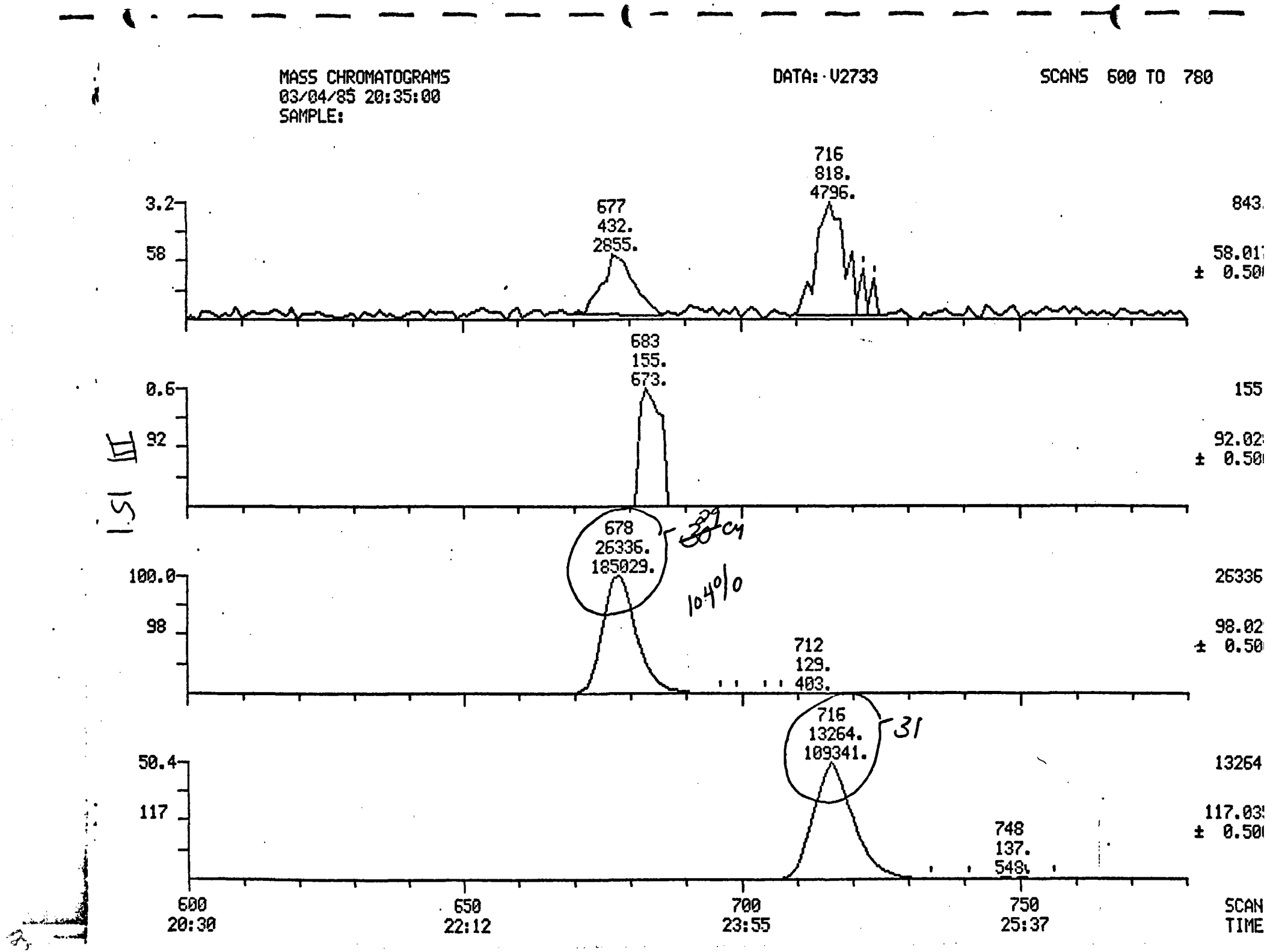

MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE:
DATA: V2733
SCANS 380 TO 480
0.1
62
1
62.01
± 0.50
0.1
72
1
72.02
± 0.50
444
335.
1499.
19.5
97
335.
97.029
± 0.500
413
1714.
15218.
100.0
102
1714.
102.031
± 0.500
380
12:59
400
13:40
420
14:21
440
15:02
460
15:43
480
16:24
SCAN
TIME

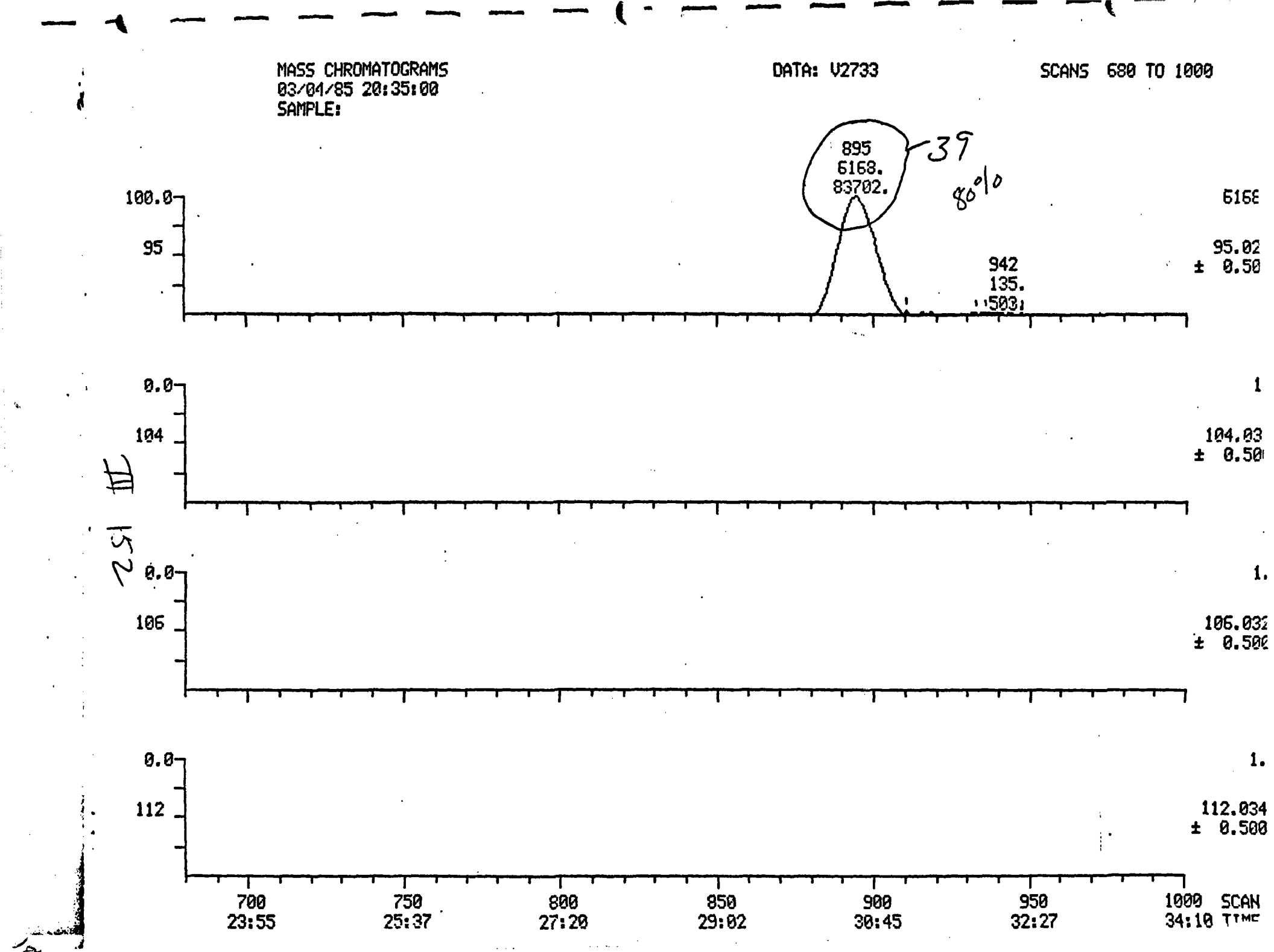

MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE:
DATA: V2733
SCANS 350 TO 550
413
1194.
10207.
372
119.
221.
522
369.
1863.
100.0
63
1194.
63.019
± 0.500
392
959.
6369.
80.3
83
959.
83.025
± 0.500
441
269.
3181.
22.5
86
269.
86.026
± 0.500
0.1
117
1.
117.035
± 0.500
350
11:57
400
13:40
450
15:22
500
17:05
550 SCAN
18:47 TIME


MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE:
DATA: V2733
SCANS 440 TO 540
522
130.
249.
100.0
75
75.
± 0.
0.8
83
83.
± 0.
0.8
129
129.
± 0.
0.8
130
130.
± 0.
440
15:02
460
15:43
480
16:24
500
17:05
520
17:46
540
18:27
SC
TI


MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE:
DATA: V2733
SCANS 450 TO 650
577
2256.
14489.
8.3
75
522
130.
249.
2256.
75.022
± 0.500
523
4800.
29572.
17.7
78
4800.
78.023
± 0.500
0.0
106
1.
106.032
± 0.500
577
27104.
164717.
100.0
114
609
121.
559.
27104.
114.034
± 0.500
450
15:22
500
17:05
550
18:47
600
20:30
650 SCAN
22:12 TIME


MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE:
DATA: V2733
SCANS 500 TO 700
516
301.
1238.
557
338.
3712.
679
353.
2749.
86.0
43
375.
43.013
± 0.500
577
436.
2152.
100.0
83
436.
83.025
± 0.500
0.2
164
1.
164.049
± 0.500
0.2
173
1.
173.052
± 0.500
500
17:05
550
18:47
600
20:30
650
22:12
700 SCAN
23:55 TIME

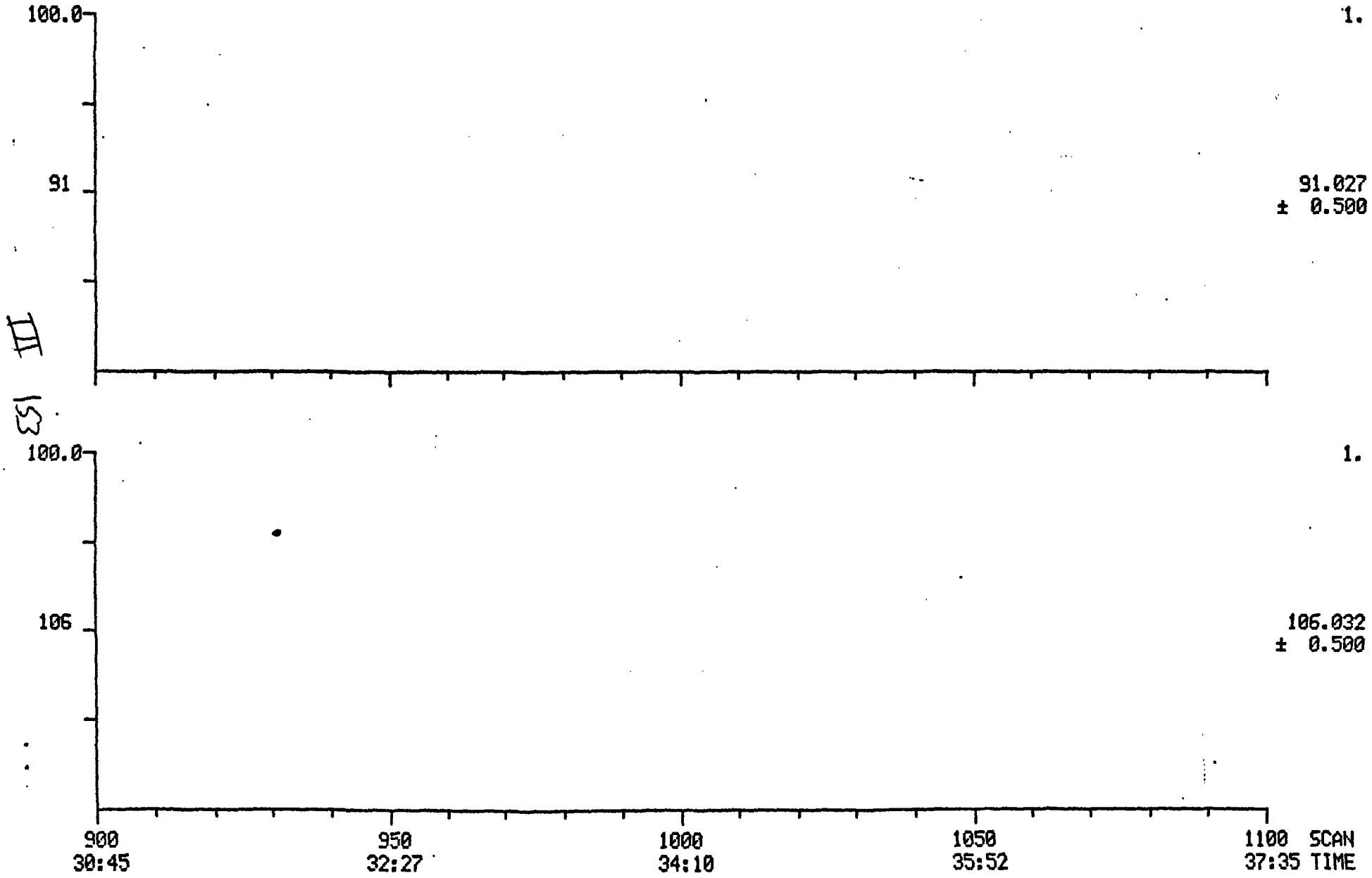

MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE:
DATA: V2733
SCANS 600 TO 780
716
818.
4796.
677
432.
2855.
3.2
58
843.
58.01
± 0.50
683
155.
673.
0.6
92
155
92.02
± 0.50
ISI III
678
26336.
185029.
30 Cy
104%
100.0
98
26336
98.02
± 0.50
712
129.
403.
716
13264.
109341.
31
50.4
117
13264
117.03
± 0.50
748
137.
548
600
20:30
650
22:12
700
23:55
750
25:37
SCAN
TIME

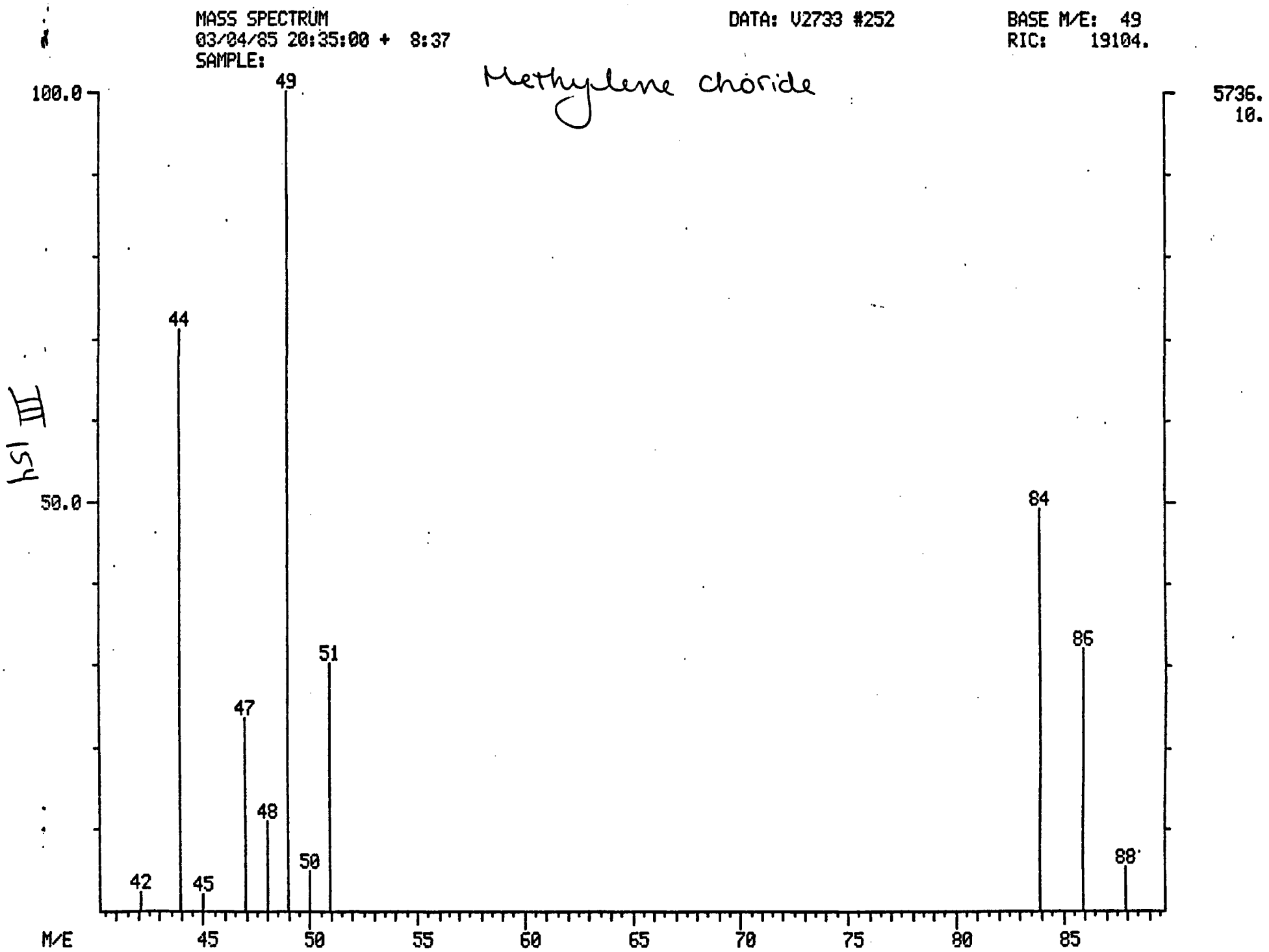

MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE:
DATA: V2733
SCANS 680 TO 1000
895
6168.
83702.
39
80%
942
135.
1503
100.0
95
95.02
± 0.50
0.0
104
104.03
± 0.50
0.0
106
106.032
± 0.500
0.0
112
112.034
± 0.500
700
23:55
750
25:37
800
27:20
850
29:02
900
30:45
950
32:27
1000
34:10
SCAN
TIME

MASS CHROMATOGRAMS
03/04/85 20:35:00
SAMPLE:

DATA: V2733

SCANS 900 TO 1100



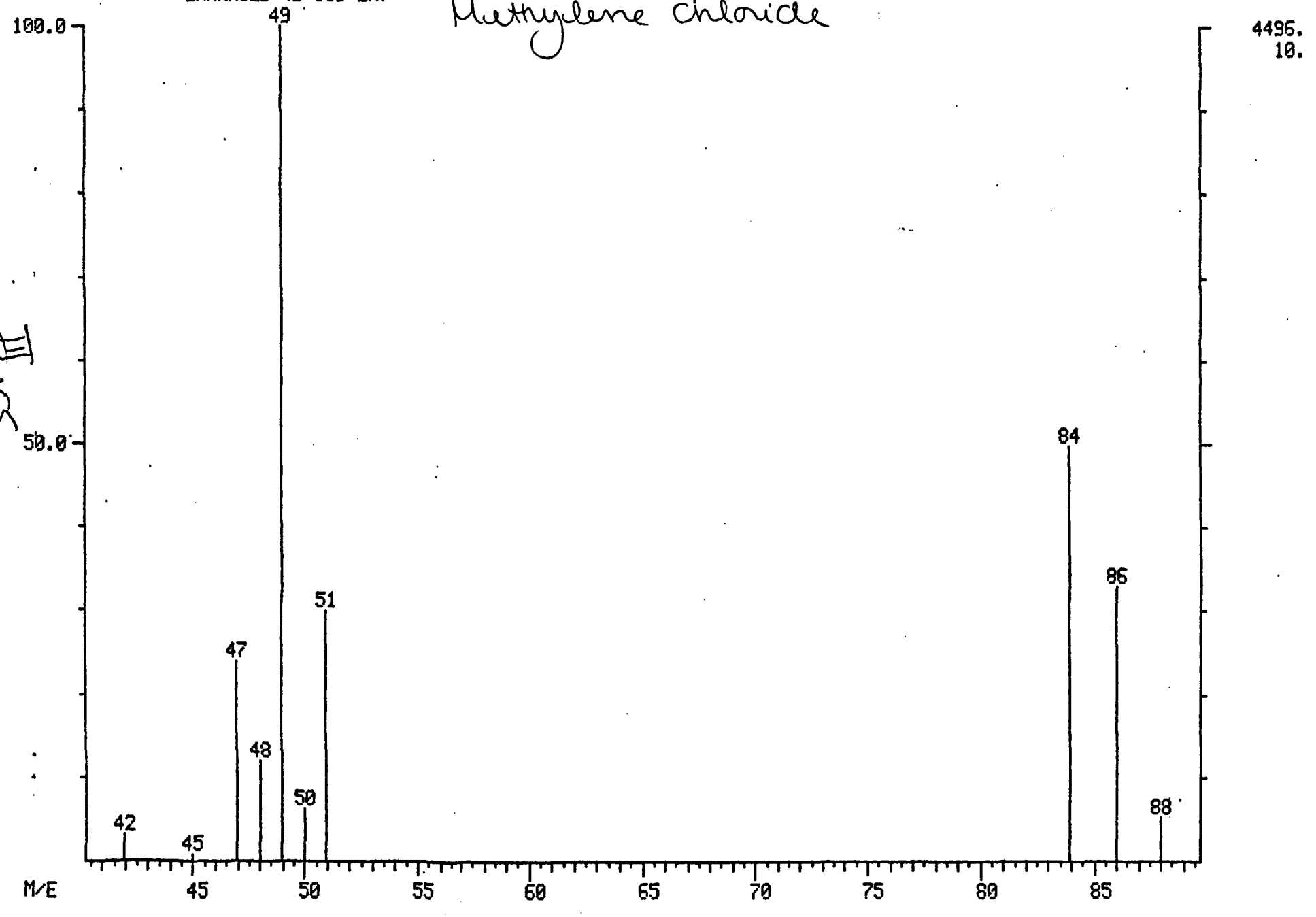

MASS SPECTRUM
03/04/85 20:35:00 + 8:37
SAMPLE:
DATA: V2733 #252
BASE M/E: 49
RIC: 19104.
Methylene choride
100.0
50.0
5736.
10.
M/E
45
50
55
60
65
70
75
80
85
49
44
84
86
51
47
48
50
42
45
88

MASS SPECTRUM
03/04/85 20:35:00 + 8:37
SAMPLE: 43233 case 3969 AB-029
ENHANCED (S 15B 2N)

DATA: V2733 #252

BASE M/E: 49
RIC: 11888.

Methylene chloride

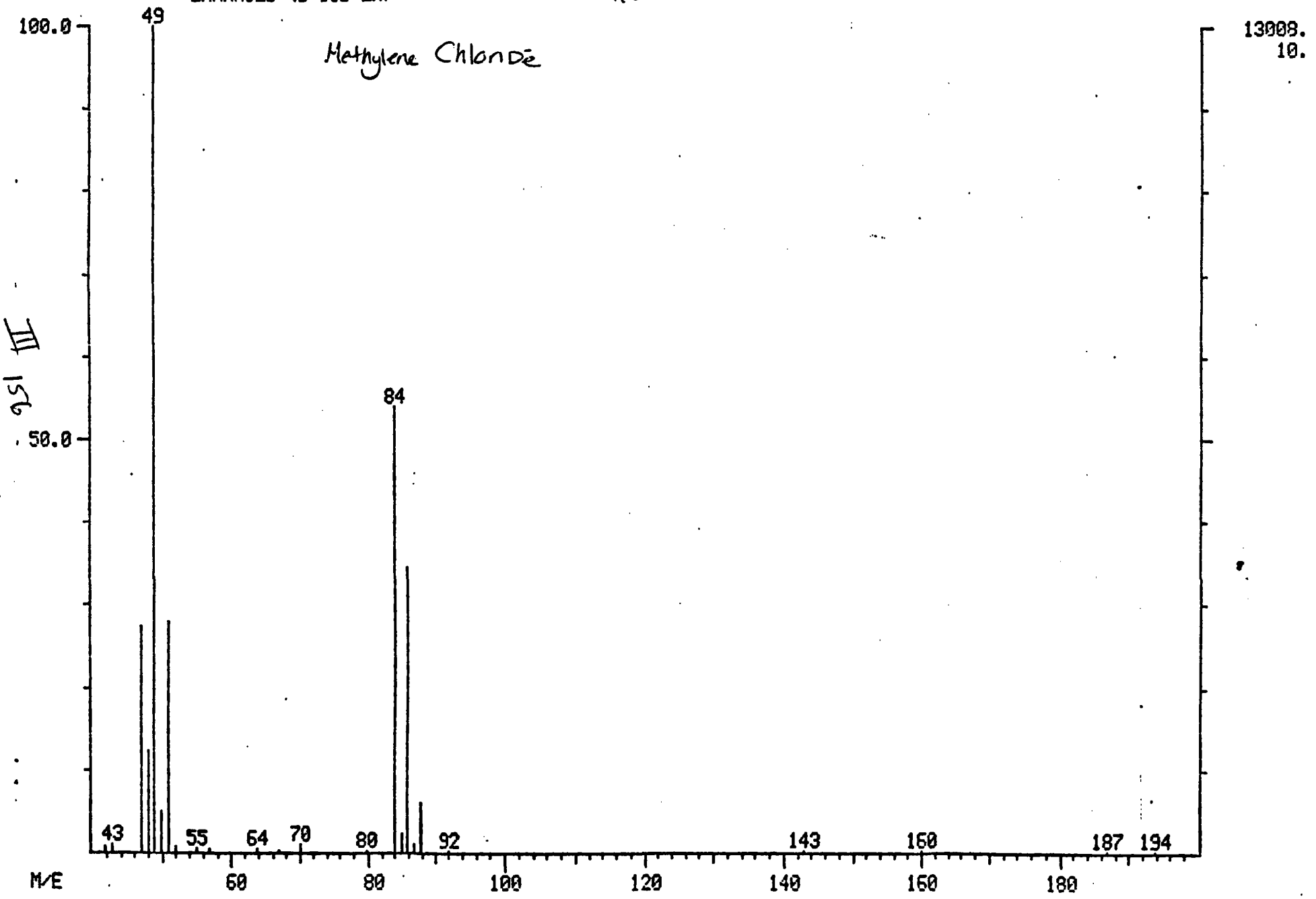


MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)

DATA: V2708 #248

BASE M/E: 49
RIC: 35224.

Case 3969 100 ppb

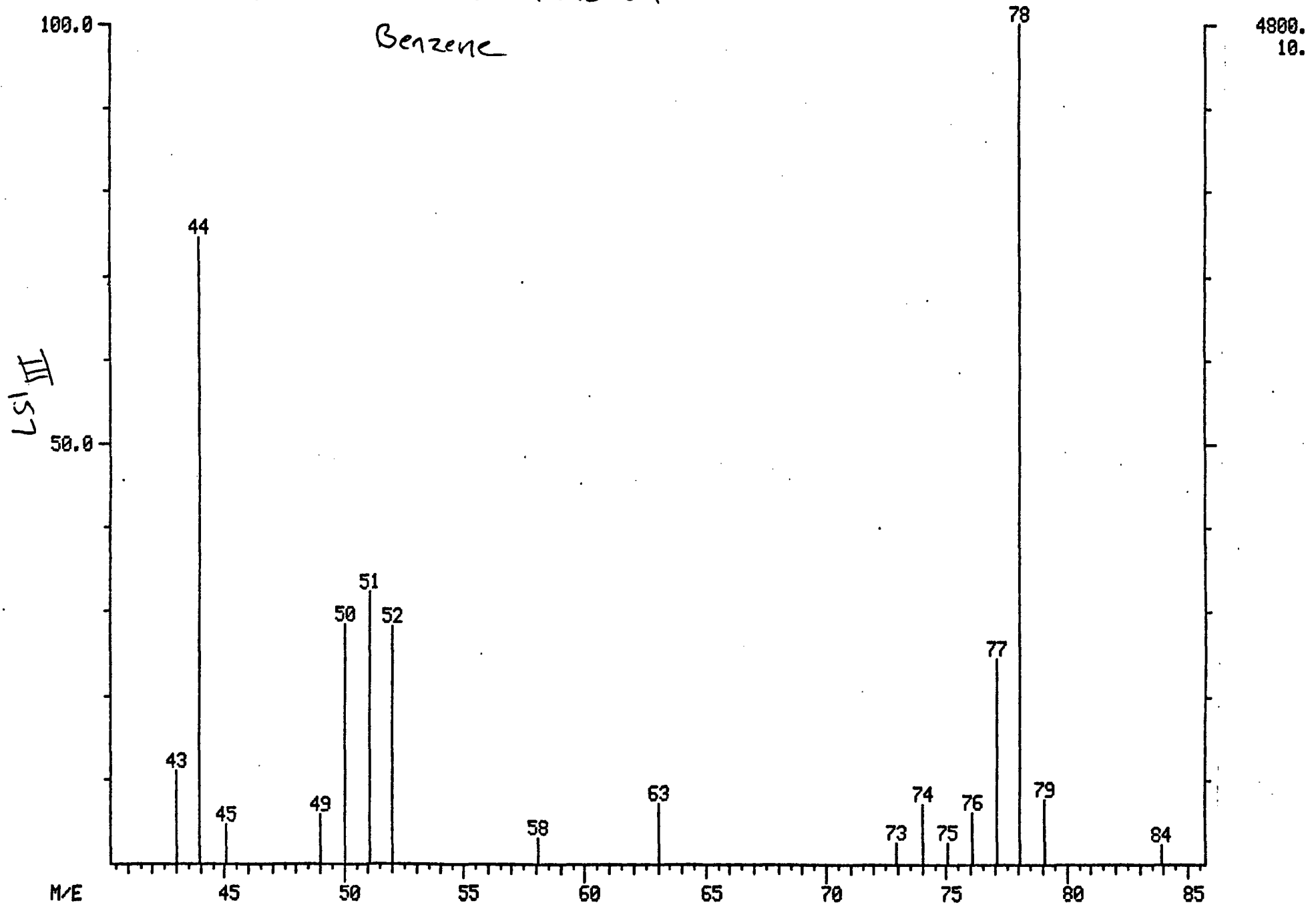


MASS SPECTRUM
03/04/85 20:35:00 + 17:52
SAMPLE: 43233 cas 3969 AB-029

DATA: V2733 #523

BASE M/E: 78
RIC: 16672.

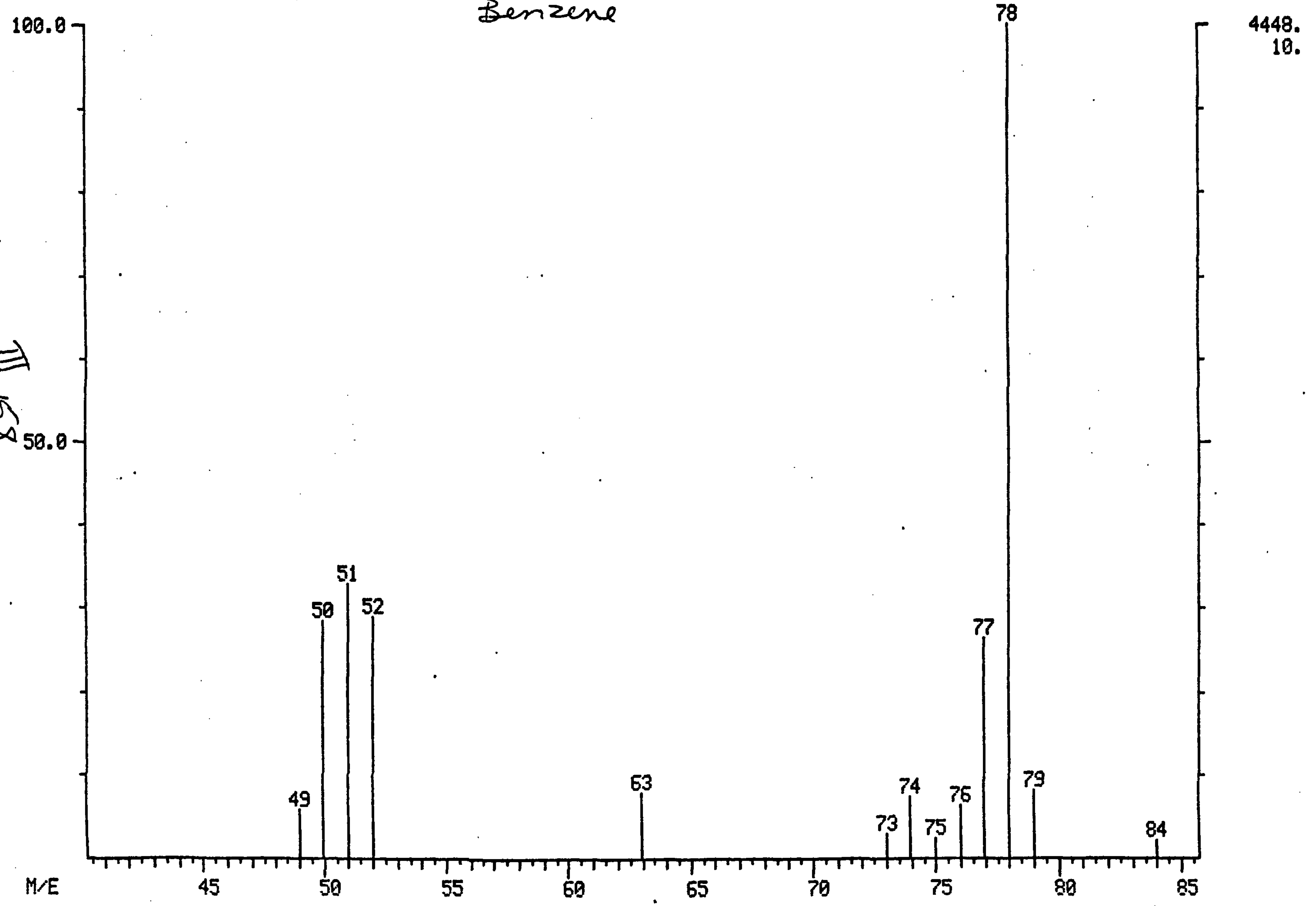
Benzene



MASS SPECTRUM
03/04/85 20:35:00 + 17:52
SAMPLE: 43233 Case 3969 AB-029
ENHANCED (S 15B 2N)
Benzene

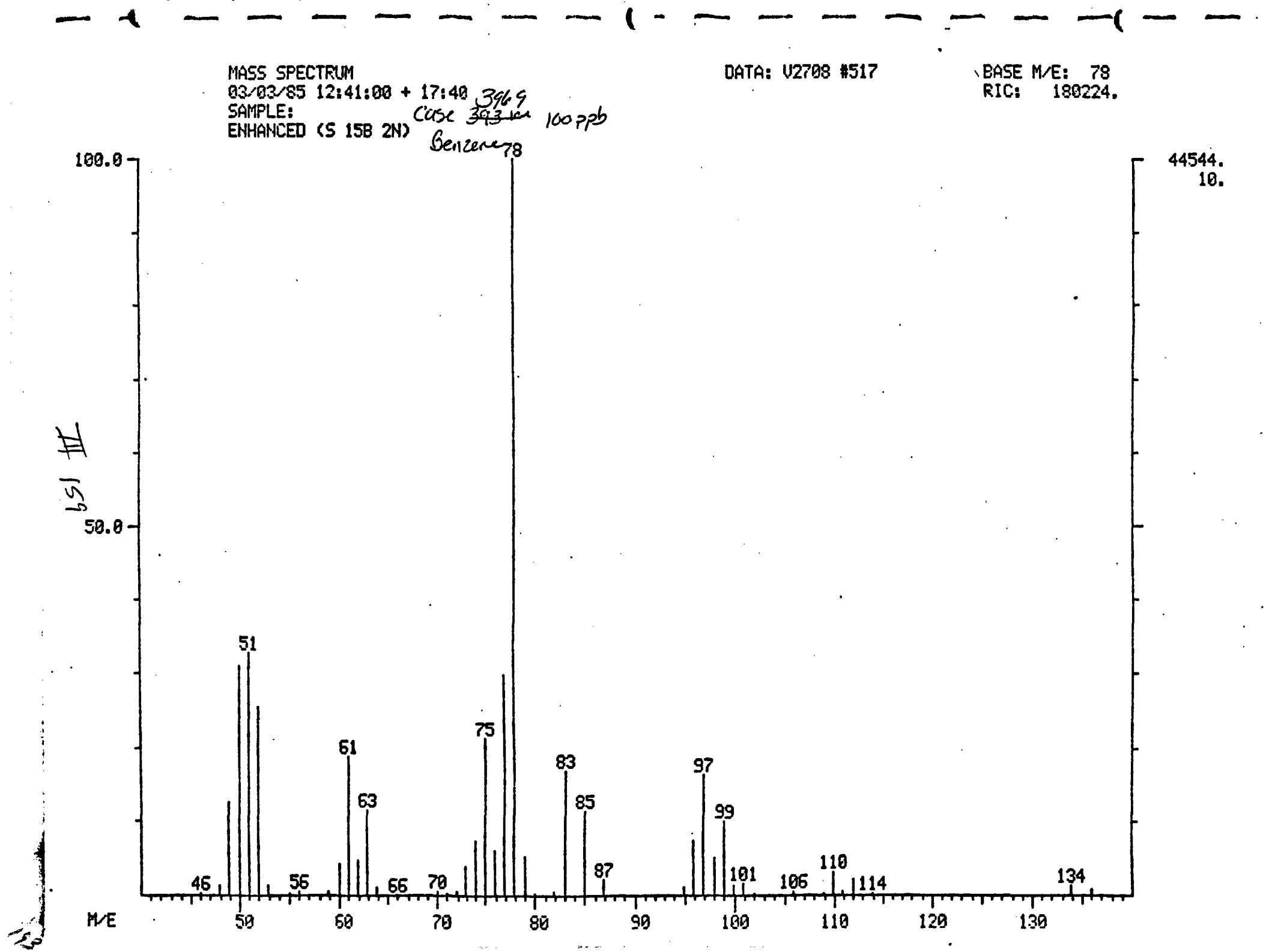
DATA: V2733 #523

BASE M/E: 78
RIC: 11568.

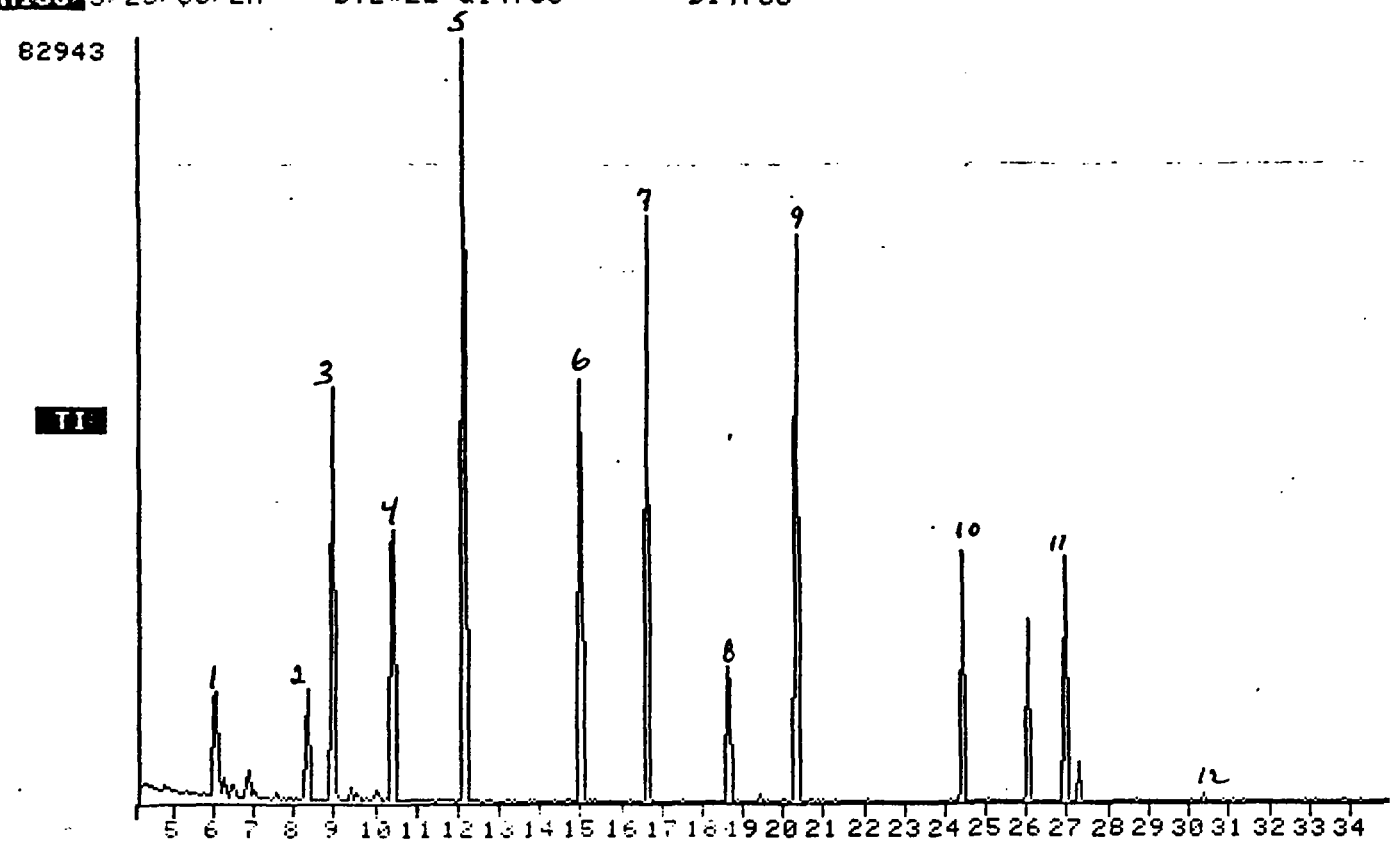


158 III

192


MASS SPECTRUM
03/03/85 12:41:00 + 17:40
SAMPLE:
ENHANCED (S 15B 2N)
DATA: V2708 #517
BASE M/E: 78
RIC: 180224.
Case 3969
100 ppb
Benzene
78
100.0
50.0
44544.
10.
M/E
46
51
56
61
63
66
70
75
83
85
87
97
99
101
106
110
114
134
50
60
70
80
90
100
110
120
130

NAME: 43219 AB029 CASE 3969 FRN 14763
MISC: 3/25/85/EM BTL#22 Q14763 D14763



1. 2-FLUOROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

FILE NUMBER 14763

43219 AB029 CASE 3969

3/25/85/EM BTL#22 Q14763 D14763

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	10.5860	BIS(2-ETHYLHEXYL)PHTHALATE			
30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	.0000	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

FILE NUMBER 14763

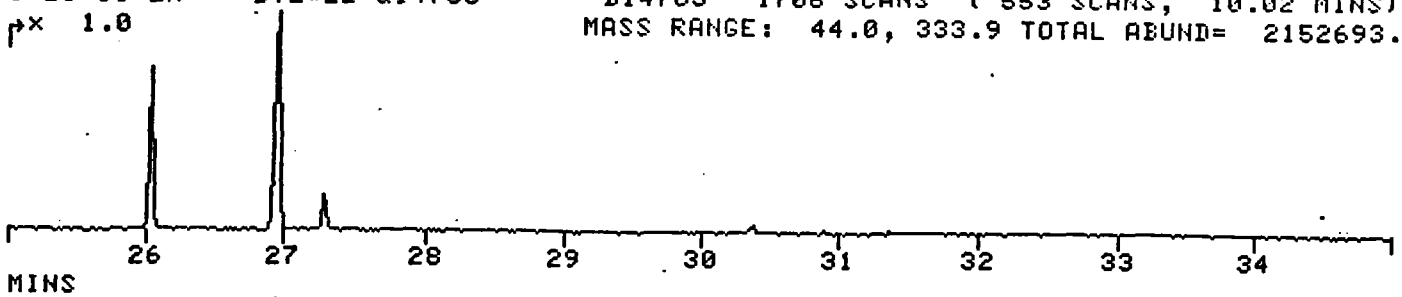
43219 AB029 CASE 3969

3/25/85/EM BTL#22 Q14763 D14763

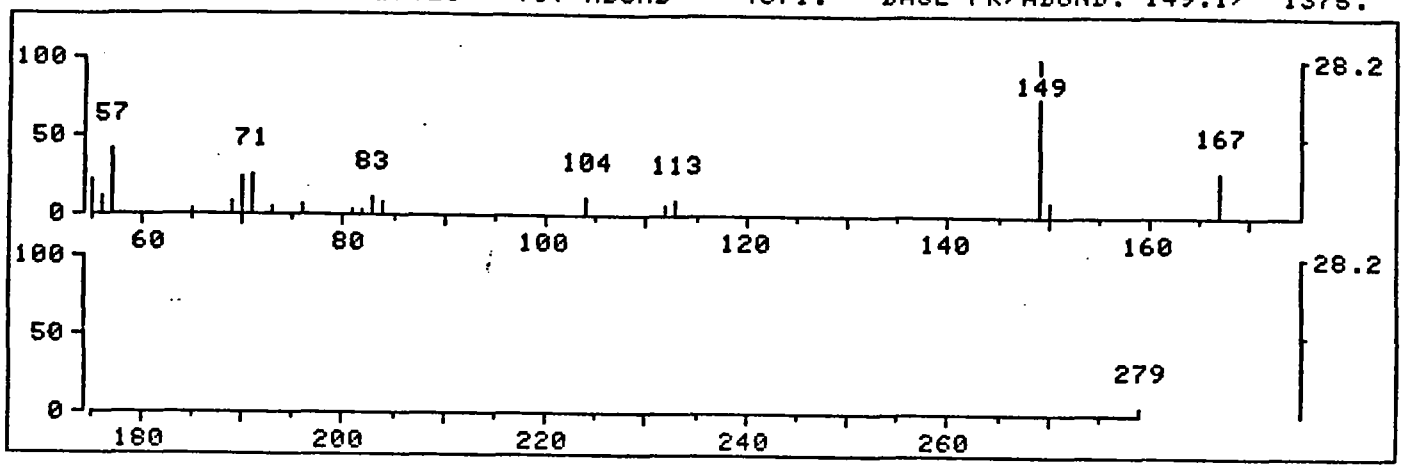
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

III 163

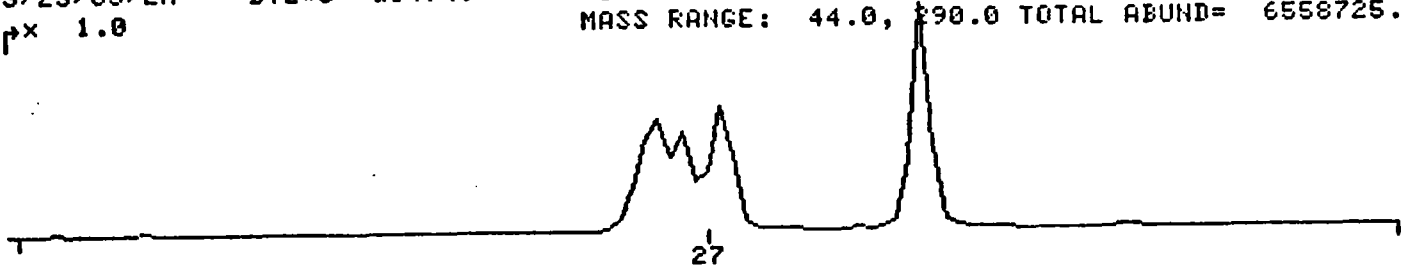
43219 AB029 CASE 3969
3/25/85/EM BTL#22 Q14763 FRN 14763, CRN 10
D14763 1706 SCANS (553 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2152693.



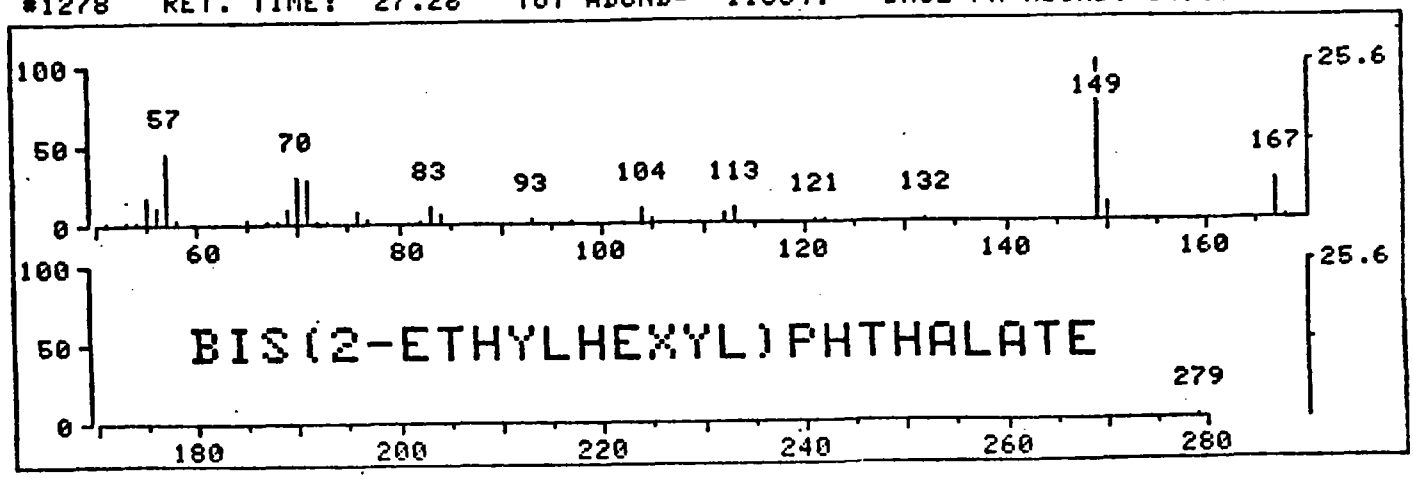
#1280 RET. TIME: 27.28 TOT ABUND= 4871. BASE PK/ABUND: 149.1/ 1375.



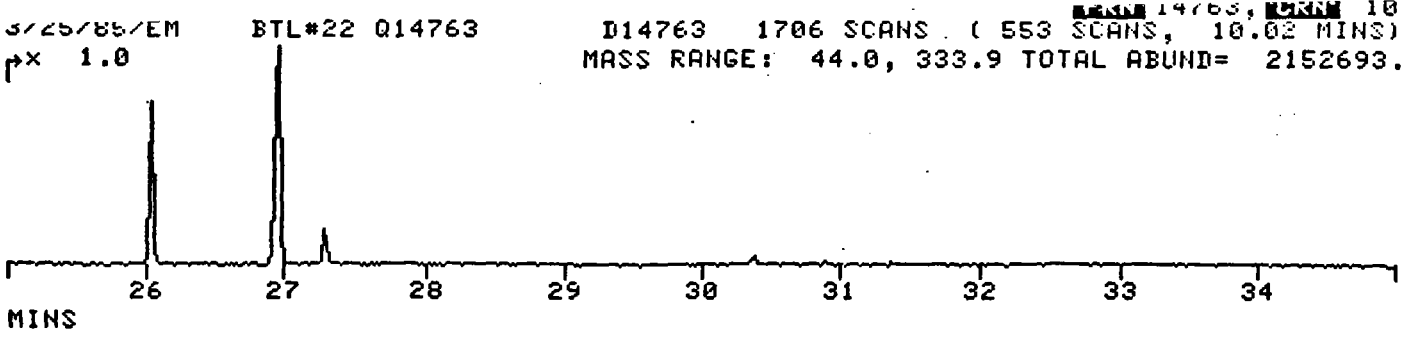
80BN
3/25/85/EM BTL#8 Q14749 FRN 14749, CRN 7
D14749 1704 SCANS (111 SCANS, 2.02 MINS)
MASS RANGE: 44.0, 390.0 TOTAL ABUND= 6558725.

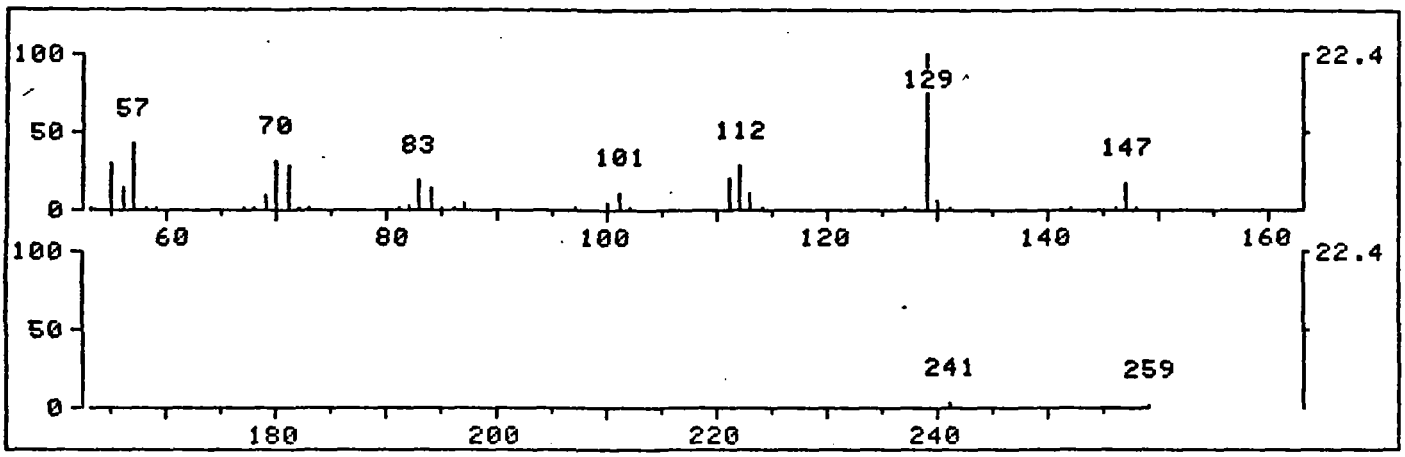


#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.

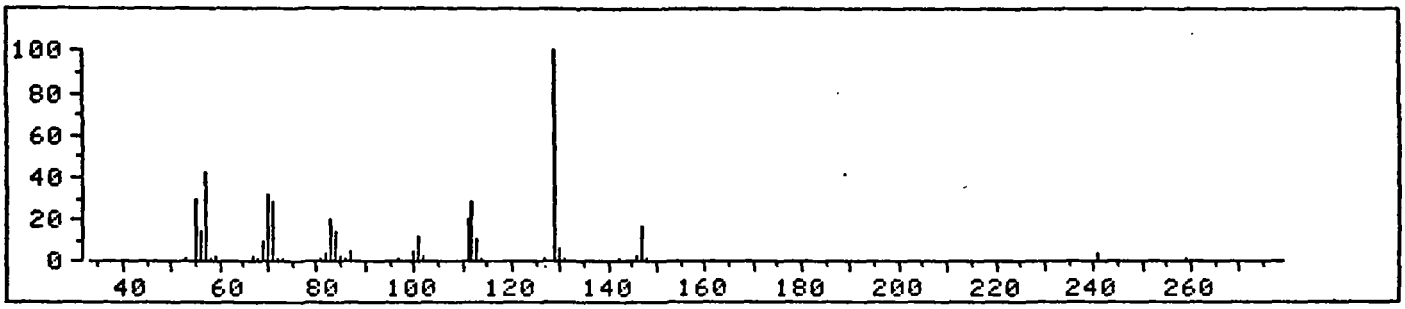


III 164

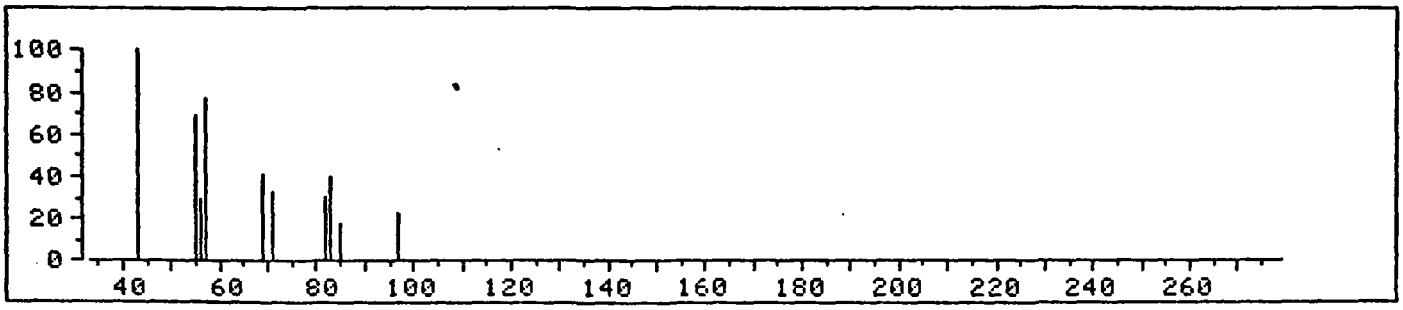




10 HITS: REFERENCE FRN 14763 SCAN 1211



* 1 LFRN 3011 SPECT 2042 MW= 298 C20H42O
.9782 1-Eicosanol (8CI9CI)



III 165

Entry	Time	Mass	Area	%
1	27.0	239.7	17337.	100.0
2	26.0	TI	32652.	188.3

CALCULATE % ON ENTRY #:

III 166

Date 4/1/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

Case # 3969

Sample I.D. 43219/AB029 HP 5880
Run # 22 Bottle # 22

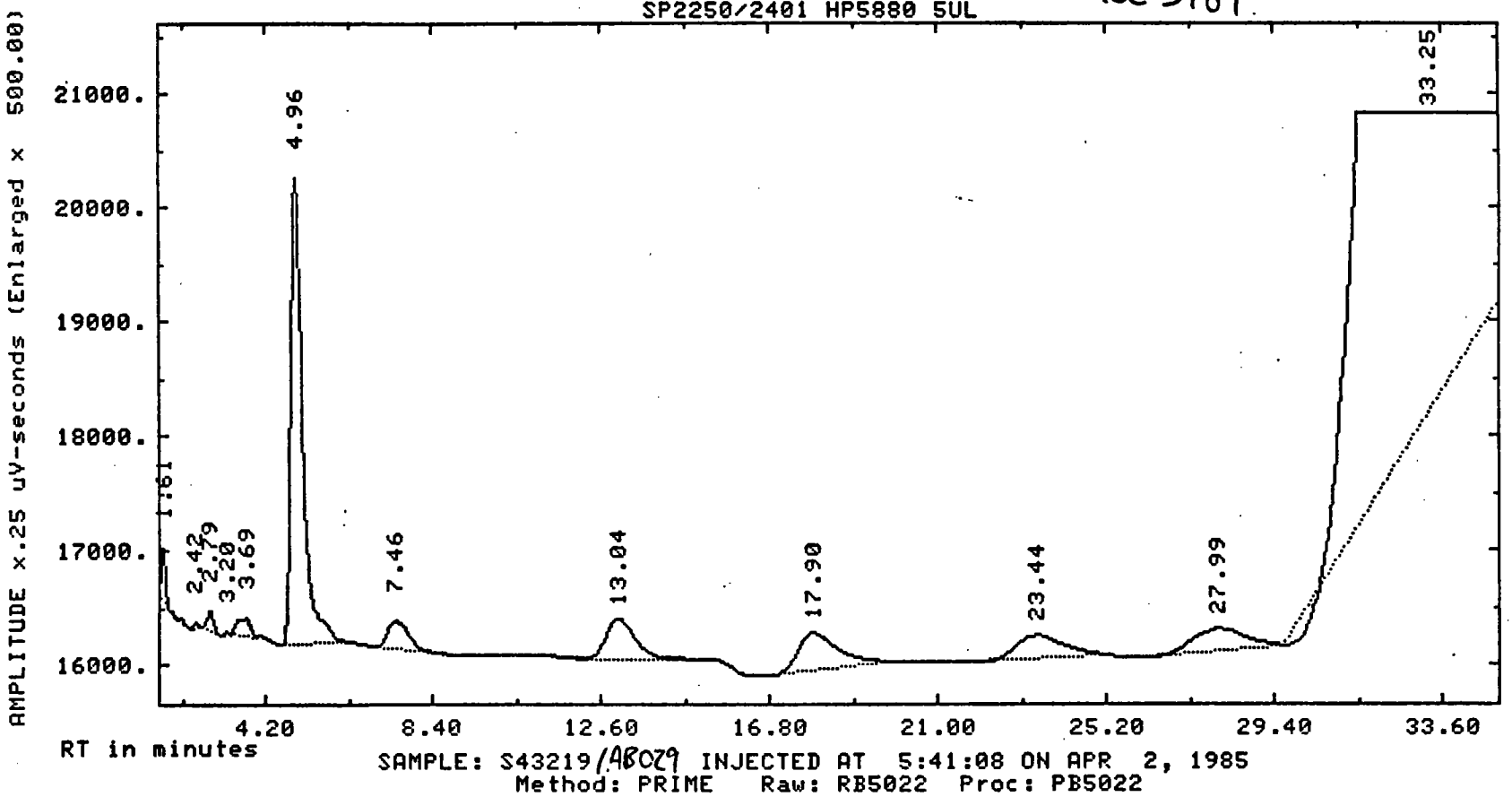
RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
3.20	~~Heptachlor~~	0.156	<5.0 x	10 ÷ 1000 =	<0.05	
	DBC observed by peak at 33 min					

RT window ?

GCA CORPORATION Technology Division

Case 3969

891 III



*LI,P,PB5022

PROCESSED DATA FILE: PB5022 ON CRN 21

Case 3969

APR 2, 1985 9:17:19

REPORT: 165 CHANNEL: 2 # PEAKS: -15 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.30	0.00	1.00000	71	BV	.003	
2	1.44	0.00	1.00000	81	VB	.003	
3	1.61	0.00	1.00000	1583	BB	.056	
4	2.42	0.00	1.00000	170	BB	.006	
5	2.79	0.00	1.00000	988	BV	.035	
6	3.20	0.00	1.00000	156	VB	.006	
7	3.69	0.00	1.00000	1661	BB	.059	
8	4.96	0.00	1.00000	42022	BB	1.491	
9	7.46	0.00	1.00000	4540	BB	.161	
10	13.04	0.00	1.00000	8158	BB	.289	
11	17.90	0.00	1.00000	11071	BB	.393	
12	23.44	0.00	1.00000	8203	BB	.291	
13	27.99	0.00	1.00000	8615	BB	.306	
14	33.25	0.00	1.00000	2711712	BV	96.187	
15	39.45	0.00	1.00000	20180	VF	.716	

TOTAL AREA = 2819211 TOTAL AREA % = 100.000

SAMPLE: S43219/AB029 INJECTED AT 5:41:08 ON APR 2, 1985

ZERO METHOD: PRIME SEQ: SM03A SUBSQ/SAMP: 1 / 22 BTL: 22

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	YES

ACTUAL RUN TIME: 40.017 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: RB5022 PARAM FILES= METHOD: SEQ:

DONE
READY

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:

GCA
213 Burlington Rd
Bedford, MA 01730
Attn: Gary Hunt

Transfer
Ship To:

⑤ Regional Office: I

Sampling Personnel:

John Williams
(Name)
(617) 742-5151
(Phone)

Sampling Date:

2/20/85 (Begin) 2/20/85 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	80 ml	No sample tags
Water (VOA)	2	40 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑦ Shipping Information

Hand-carried
Name of Carrier

Date Shipped:

Airbill Number:

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 2/25
Sample Condition on Receipt (e.g., broken, ice, Chain-of-Custody, etc.)

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # NAM 02E

LAB FILE COPY

III 170

Lab Sample ID No: 43234

Sample Matrix: water

Data Release Authorized By

QC Report No 3969

Contract No. 68-01-6767

Date Sample Received: 3/1/85

Volatile Compounds

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 3/5/85

Date Analyzed 3/5/85

Conc/Dil Factor 1 pH NA

Percent Moisture NA

Percent Moisture (Decanted) NA

ETmm 5/5/85 R-Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	8.4 R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

ETmm 5/5/85

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	6.0
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	20
100-42-5	Styrene	5U
	Total Xylenes	14 *J

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. ... flags ... explaining results are encouraged. However, the definition of each flag must be explicit.

* See narrative

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit ...

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

III 171

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AG 030

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0l → 1.0ml

ETMM SB185 R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44 4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98 95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88 75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83 2	2, 4 Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	2J 10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	5J
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88 74-4	2-Nitroaniline	50u
131 11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	7J
100-01 6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129 00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2 Ethylhexyl)Phthalate	7JB
218-01-9	Chrysene	10u
117-84 0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-09-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53 70 3	Dibenzo(a, h)Anthracene	10u
191-24 2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB030

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 3/30/85

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05U
319-85-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4, 4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4, 4'-DDD	0.10U
7421-93-4	Endrin Aldehyde	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4, 4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor-1016	0.50U
11104-28-2	Aroclor-1221	0.50U
11141-16-5	Aroclor-1232	0.50U
53469-21-9	Aroclor-1242	0.50U
12672-29-6	Aroclor-1248	0.50U
11097-69-1	Aroclor-1254	1.0U
11096-82-5	Aroclor-1260	1.0U

√ ok
ET mm 5/5/85

JH Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s ______ V_t 10,000 ul V_i 5.0 ul

III 173

AB 030

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Compounds found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

II 174

1/84

AB030

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	BN/A	5.9	42 J
2.		" "	"	6.4	68 J
3.		" "	"	8.0	88 J
4.		" "	"	8.1	46 J
5.		" "	"	8.4	130 J
6.		" "	"	8.6	120 J
7.		" "	"	9.2	150 J
8.		" "	"	11.6	960 J
9.		" "	"	11.8	660 J
10.		" "	"	12.4	340 J
11.		" "	"	13.5	670 J
12.		" "	"	14.0	1400 J
13.		" "	"	14.2	1100 J
14.		" "	"	15.6	46 J
15.		" "	"	15.9	160 J
16.		" "	"	15.9	100 J
17.		" "	"	16.1	50 J
18.		" "	"	16.3	30 J
19.		" "	"	26.0	50 J
20.		" "	"	7.8	20 J
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

III 175

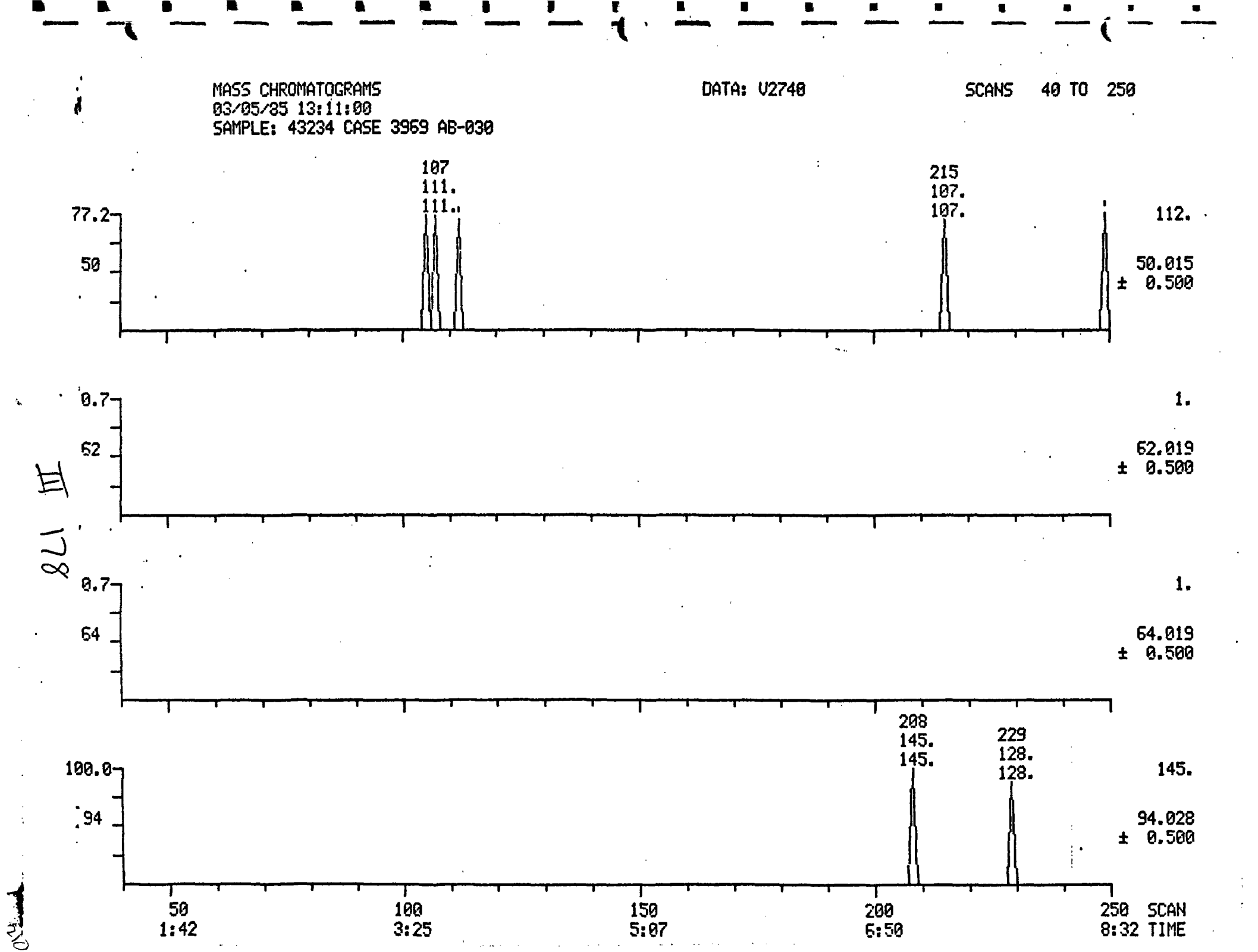
208

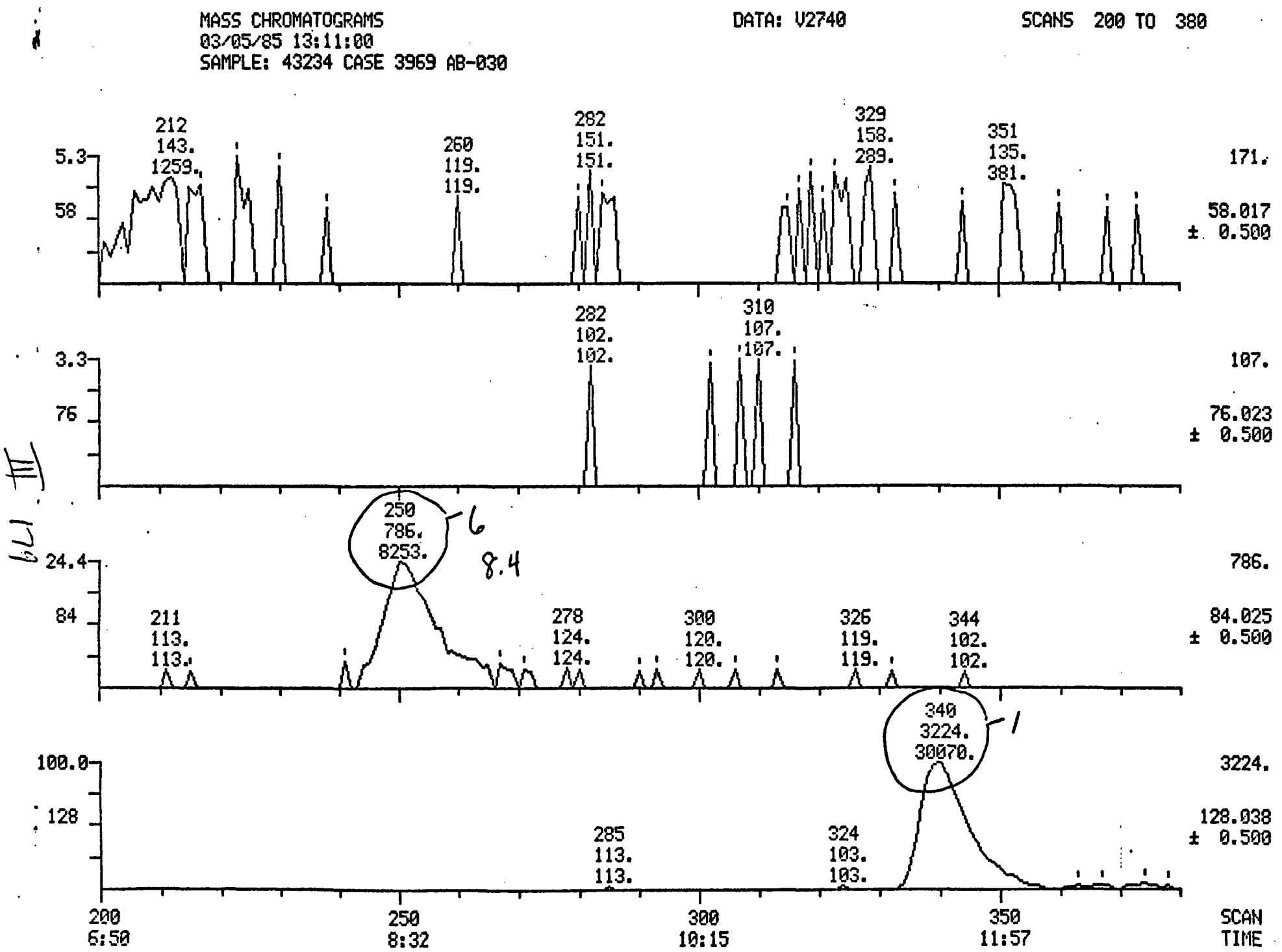
AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

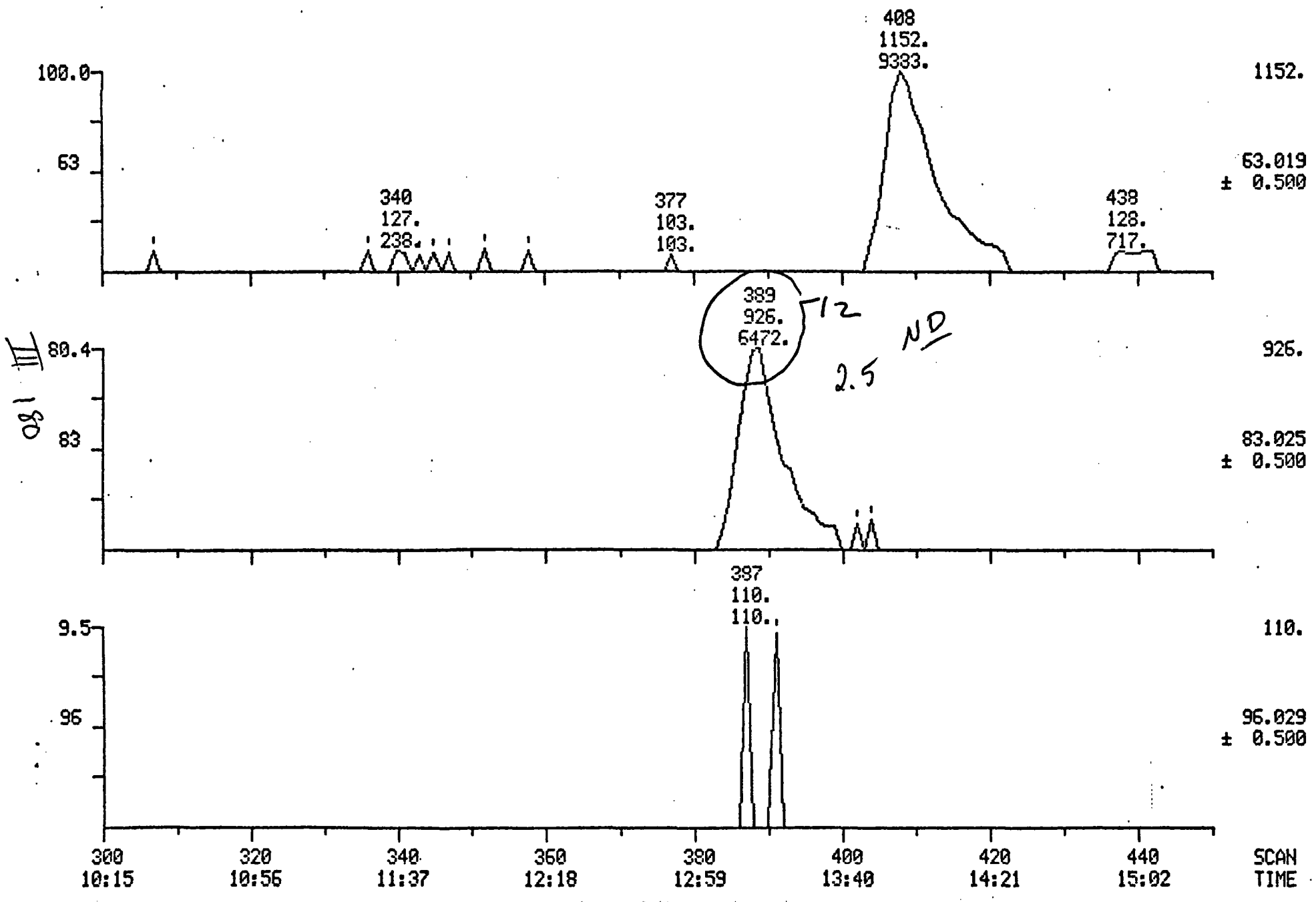
Case 3969

NO	NAME
1	BROMOCHLOROMETHANE(I. S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1, 1-DICHLOROETHENE
10	1, 1-DICHLOROETHANE
11	TRANS 1, 2-DICHLOROETHENE
12	CHLOROFORM
13	1, 2-DICHLOROETHANE
14	D4-1, 2-DICHLOROETHANE
15	1, 1, 1-TRICHLOROETHANE
16	1, 4-DIFLUROBENZENE(I. S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1, 2-DICHLOROPROPANE
22	TRANS 1, 3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1, 1, 2-TRICHLOROETHANE
26	BENZENE
27	CIS-1, 3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I. S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1, 1, 2, 2, TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	340	11:37	1	1.000	A BB	29880.	50.000 UG/L	2.38
2	50	64	2:11	1	0.188	A BB	32858.	50.000 UG/L	2.38
3	62	145	4:57	1	0.426	A BB	36722.	50.000 UG/L	2.38
4	94	111	3:48	1	0.326	A BB	35408.	50.000 UG/L	2.38
5	64	187	6:23	1	0.550	A BB	26953.	50.000 UG/L	2.38
6	84	249	8:30	1	0.732	A BB	66871.	50.000 UG/L	2.38
7	58	459	15:41	1	1.350	A BB	24325.	50.000 UG/L	2.38
8	76	305	10:25	1	0.897	A BB	106137.	50.000 UG/L	2.38
9	96	333	11:23	1	0.979	A BV	44879.	50.000 UG/L	2.38
10	63	367	12:32	1	1.079	A BV	119635.	50.000 UG/L	2.38


MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 40 TO 250
107
111.
111.
215
107.
107.
77.2
50
112.
50.015
± 0.500
0.7
62
1.
62.019
± 0.500
0.7
64
1.
64.019
± 0.500
208
145.
145.
229
128.
128.
100.0
94
145.
94.028
± 0.500
50
1:42
100
3:25
150
5:07
200
6:50
250 SCAN
8:32 TIME

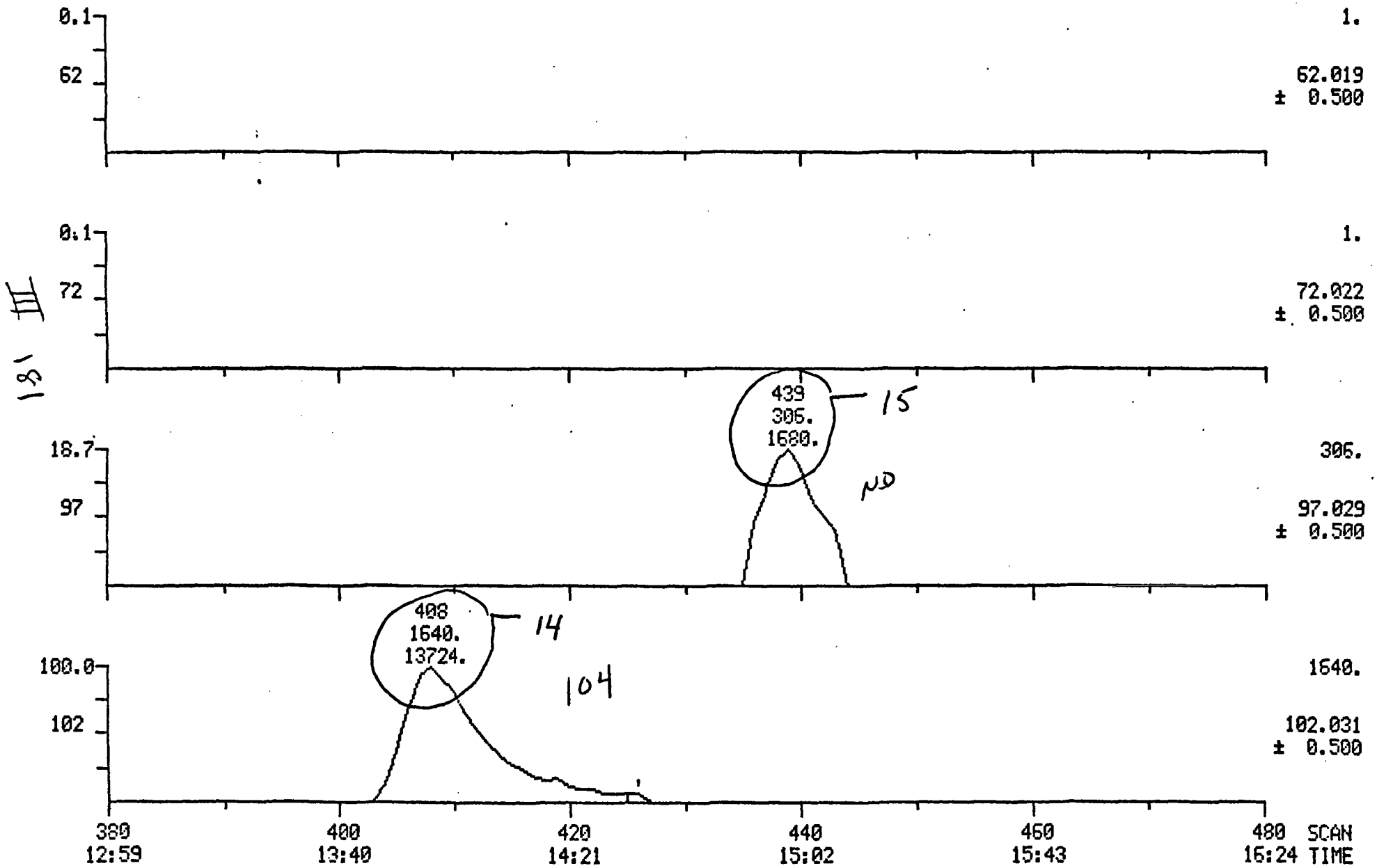

MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 200 TO 380
212
143.
1259.
260
119.
119.
282
151.
151.
329
158.
289.
351
135.
381.
5.3
58
171.
58.017
± 0.500
282
102.
102.
310
107.
107.
3.3
76
107.
76.023
± 0.500
250
786.
8253.
6
8.4
24.4
84
786.
84.025
± 0.500
211
113.
113.
278
124.
124.
300
120.
120.
326
119.
119.
344
102.
102.
340
3224.
30070.
1
100.0
128
3224.
128.038
± 0.500
285
113.
113.
324
103.
103.
200
6:50
250
8:32
300
10:15
350
11:57
SCAN
TIME

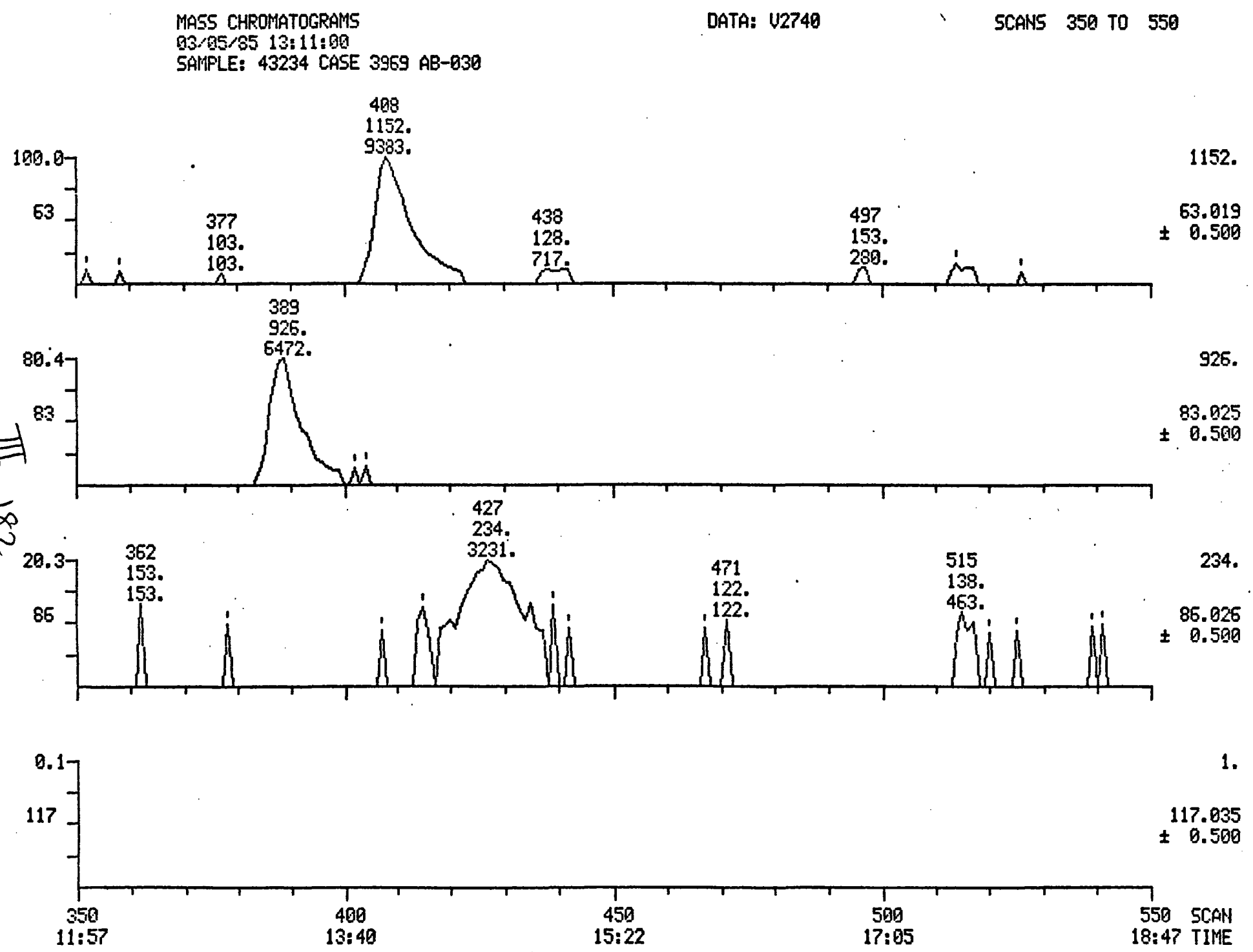

MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 300 TO 450
100.0
63
408
1152.
9333.
1152.
63.019
± 0.500
340
127.
238.
377
103.
103.
438
128.
717.
389
926.
6472.
80.4
83
926.
83.025
± 0.500
387
110.
110.
9.5
96
110.
96.029
± 0.500
300
10:15
320
10:56
340
11:37
360
12:18
380
12:59
400
13:40
420
14:21
440
15:02
SCAN
TIME

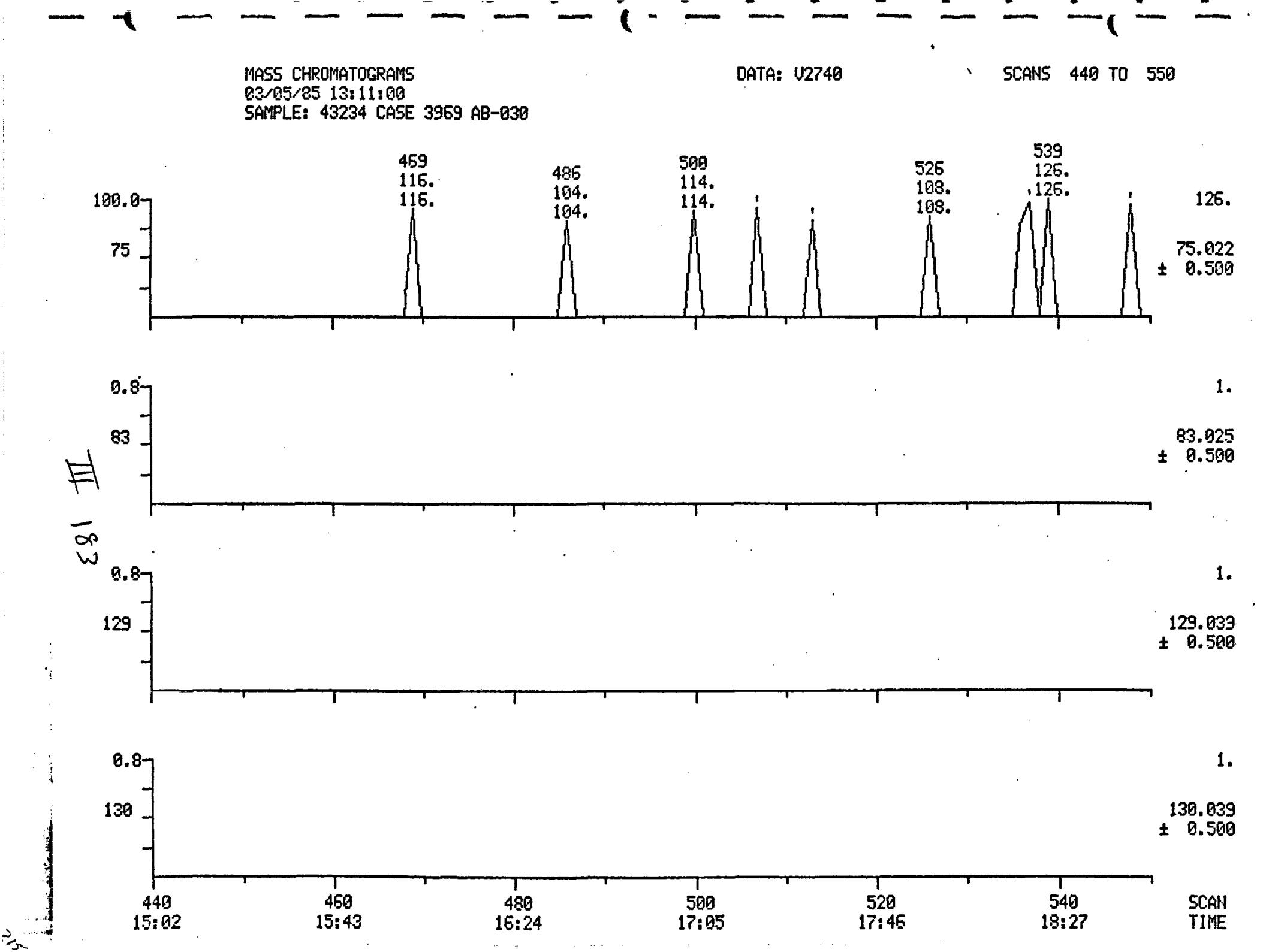
MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030

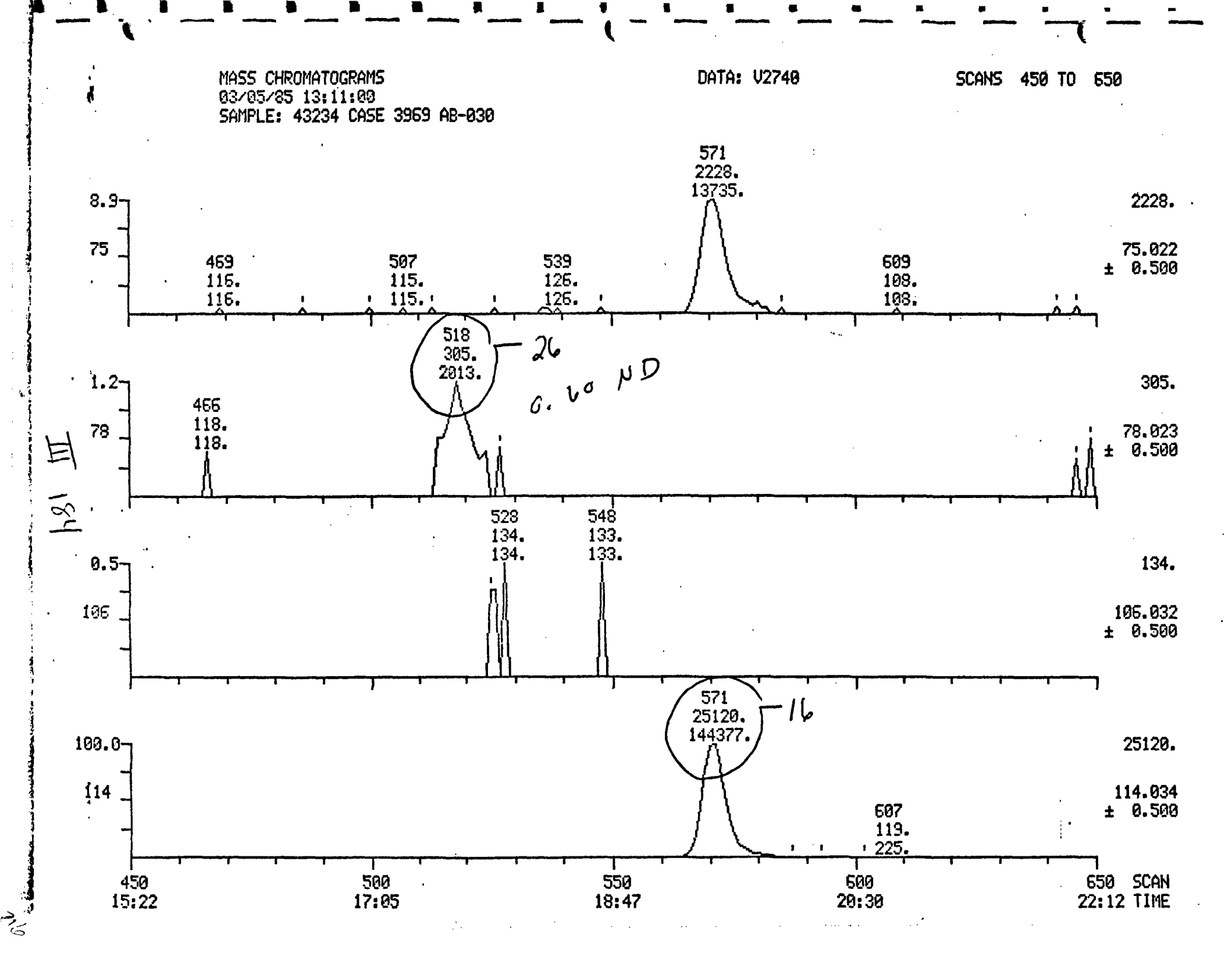
DATA: V2740

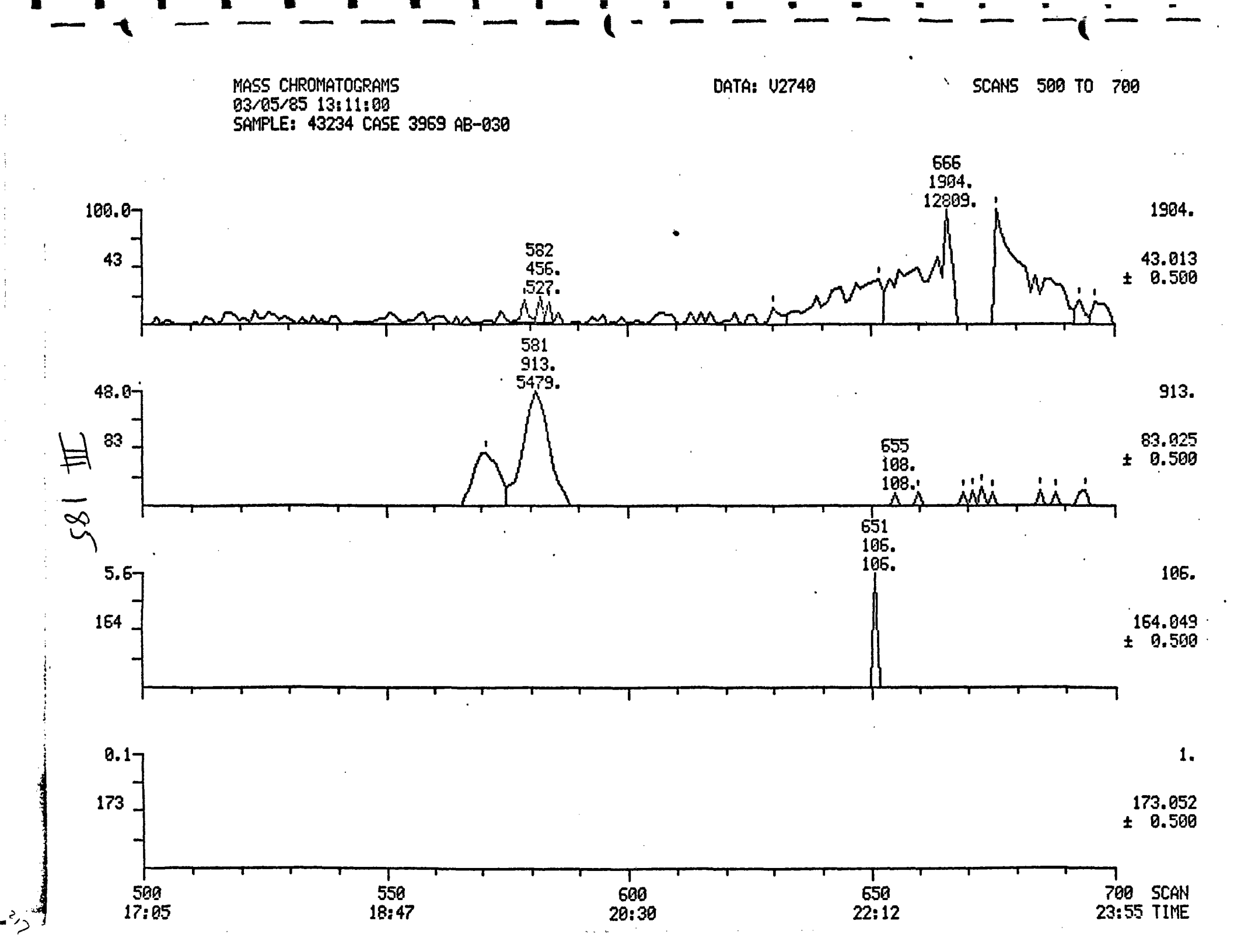
SCANS 380 TO 480

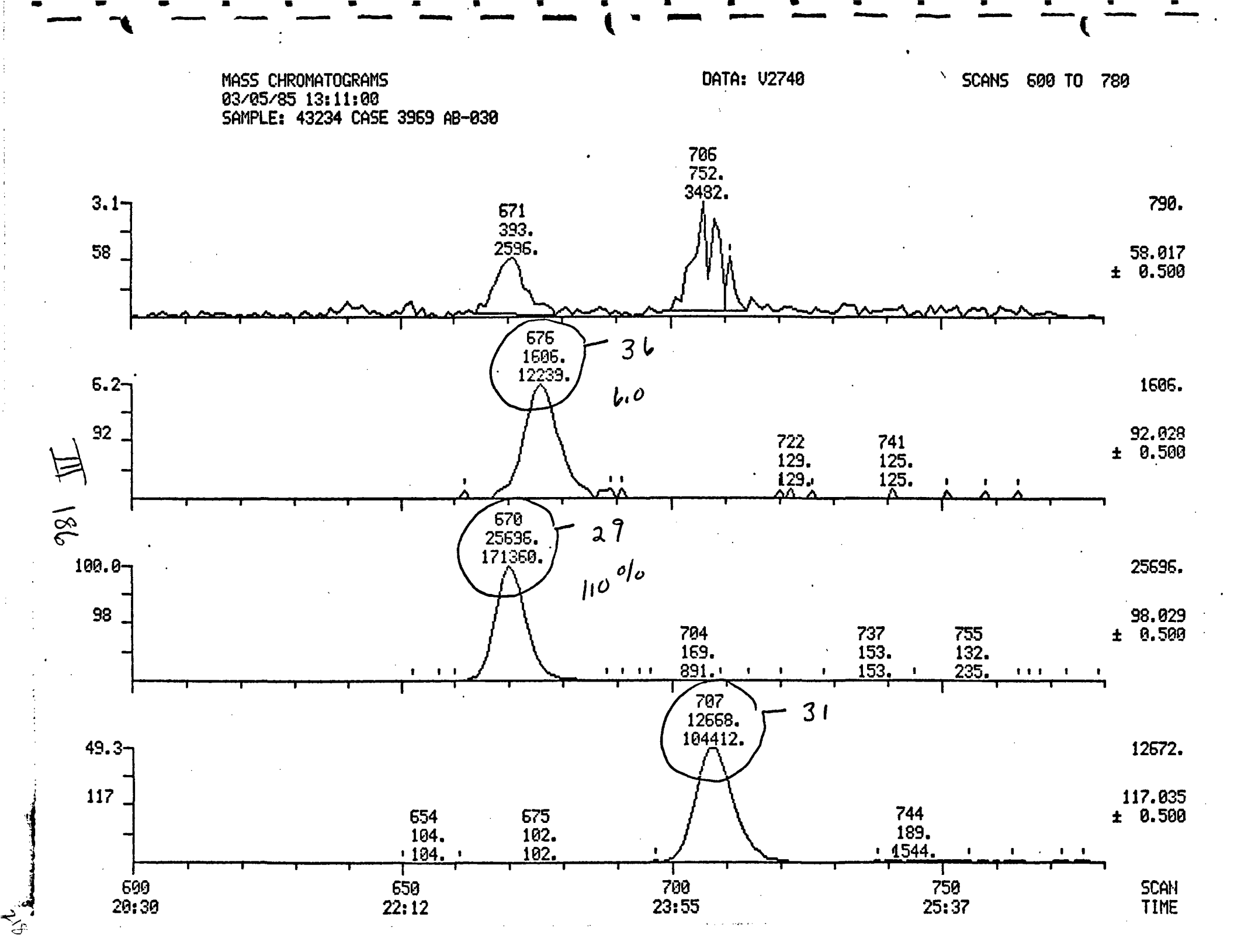


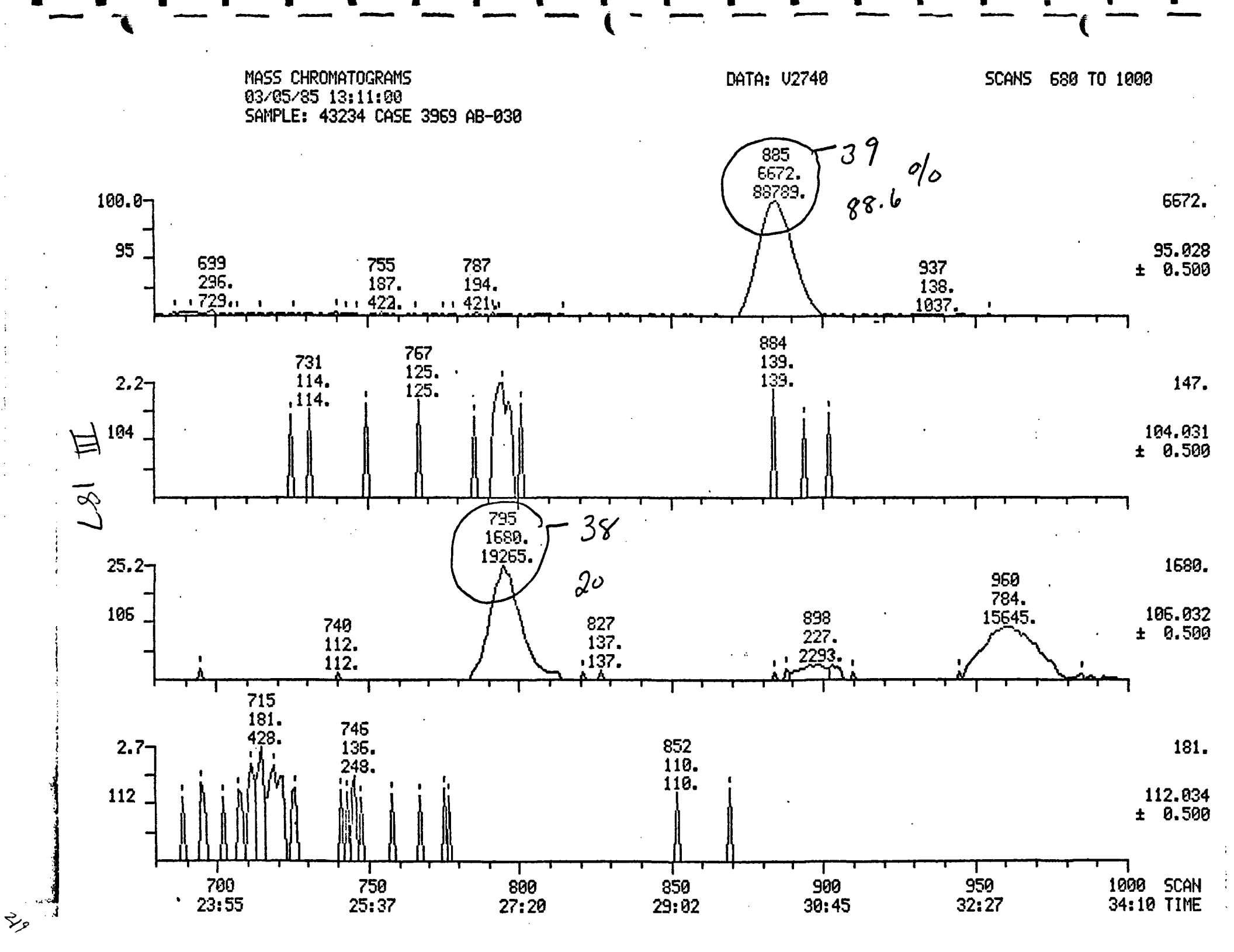

MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 350 TO 550
408
1152.
9383.
100.0
63
377
103.
103.
438
128.
717.
497
153.
280.
1152.
63.019
± 0.500
389
926.
6472.
80.4
83
926.
83.025
± 0.500
427
234.
3231.
362
153.
153.
20.3
86
471
122.
122.
515
138.
463.
234.
86.026
± 0.500
0.1
117
1.
117.035
± 0.500
350
11:57
400
13:40
450
15:22
500
17:05
550 SCAN
18:47 TIME

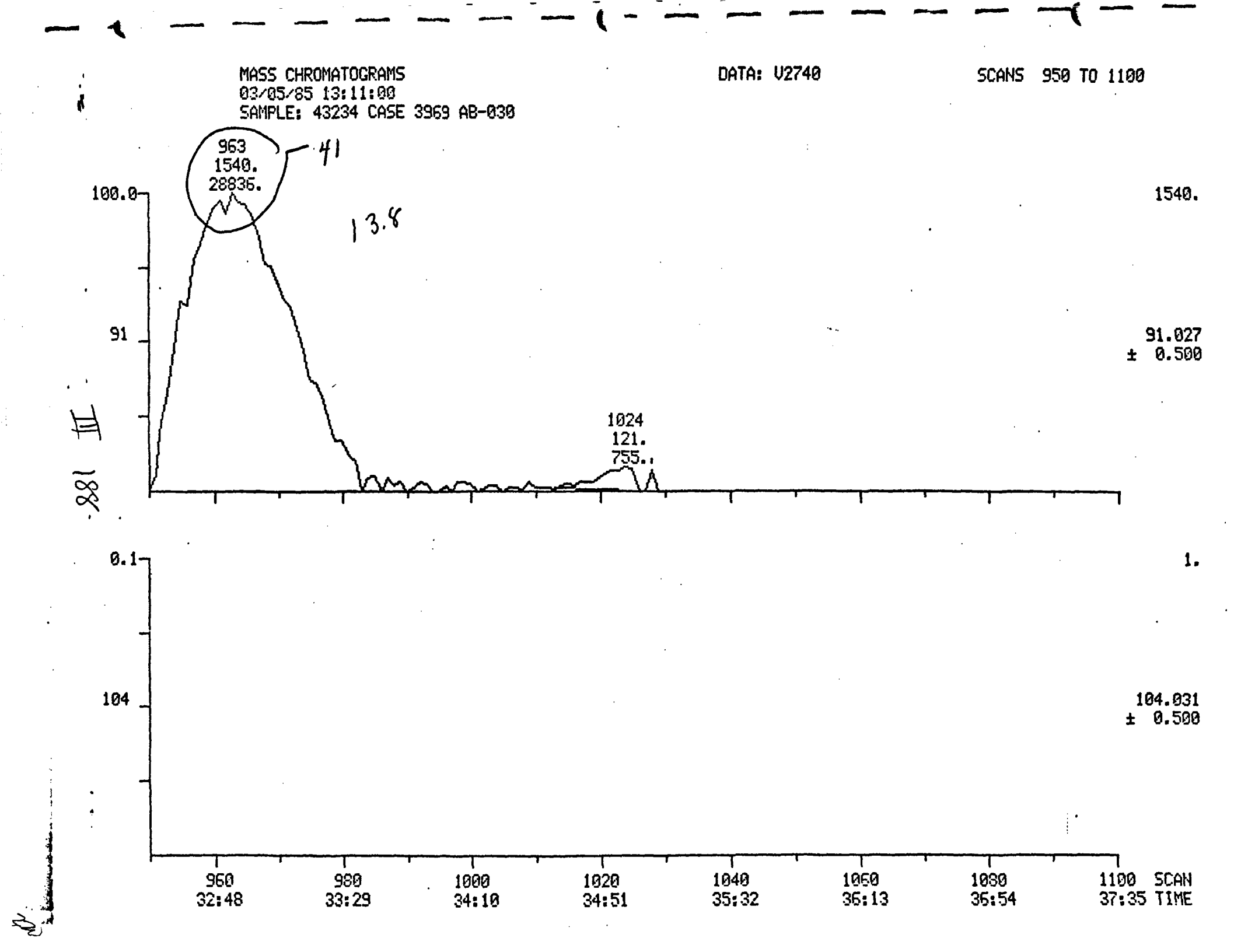

MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 440 TO 550
469
116.
116.
486
104.
104.
500
114.
114.
526
108.
108.
539
126.
126.
100.0
75
126.
75.022
± 0.500
0.8
83
1.
83.025
± 0.500
0.8
129
1.
129.039
± 0.500
0.8
130
1.
130.039
± 0.500
440
15:02
460
15:43
480
16:24
500
17:05
520
17:46
540
18:27
SCAN
TIME


MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 450 TO 650
571
2228.
13735.
8.9
75
469
116.
116.
507
115.
115.
539
126.
126.
609
108.
108.
2228.
75.022
± 0.500
518
305.
2013.
26
0.60 ND
1.2
78
466
118.
118.
305.
78.023
± 0.500
528
134.
134.
548
133.
133.
0.5
106
134.
106.032
± 0.500
571
25120.
144377.
16
100.0
114
607
119.
225.
25120.
114.034
± 0.500
450
15:22
500
17:05
550
18:47
600
20:30
650 SCAN
22:12 TIME


MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 500 TO 700
100.0
43
582
456.
527.
666
1904.
12809.
1904.
43.013
± 0.500
48.0
83
581
913.
5479.
655
108.
108.
913.
83.025
± 0.500
5.6
164
651
106.
106.
106.
164.049
± 0.500
0.1
173
1.
173.052
± 0.500
500
17:05
550
18:47
600
20:30
650
22:12
700 SCAN
23:55 TIME


MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 600 TO 780
706
752.
3482.
671
393.
2596.
3.1
58
790.
58.017
± 0.500
676
1606.
12239.
36
6.0
6.2
92
1606.
92.028
± 0.500
722
129.
129.
741
125.
125.
670
25696.
171360.
29
110 %
100.0
98
25696.
98.029
± 0.500
704
169.
891.
737
153.
153.
755
132.
235.
707
12668.
104412.
31
49.3
117
12672.
117.035
± 0.500
654
104.
104.
675
102.
102.
744
189.
1544.
600
20:30
650
22:12
700
23:55
750
25:37
SCAN
TIME

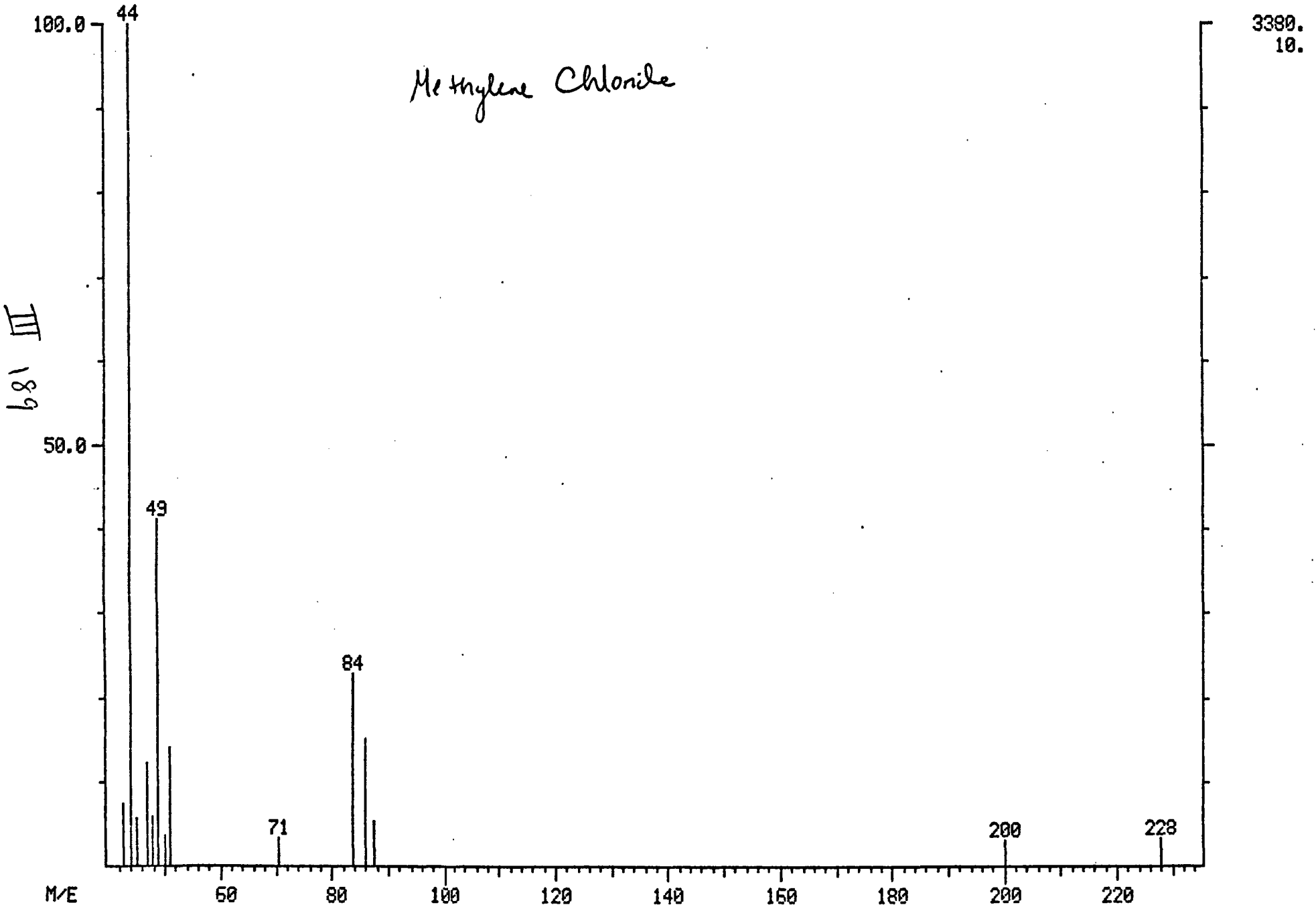

MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 680 TO 1000
885
6672.
88789.
39
88.6 o/o
100.0
95
6672.
95.028
± 0.500
699
296.
729.
755
187.
422.
787
194.
421.
937
138.
1037.
731
114.
114.
767
125.
125.
884
139.
139.
2.2
104
147.
104.031
± 0.500
L81 III
795
1680.
19265.
38
20
25.2
106
1680.
106.032
± 0.500
740
112.
112.
827
137.
137.
898
227.
2293.
960
784.
15645.
715
181.
428.
746
136.
248.
852
110.
110.
2.7
112
181.
112.034
± 0.500
700
23:55
750
25:37
800
27:20
850
29:02
900
30:45
950
32:27
1000 SCAN
34:10 TIME


MASS CHROMATOGRAMS
03/05/85 13:11:00
SAMPLE: 43234 CASE 3969 AB-030
DATA: V2740
SCANS 950 TO 1100
963
1540.
28836.
41
13.8
100.0
1540.
91
91.027
± 0.500
1024
121.
755.
881 III
0.1
1.
104
104.031
± 0.500
960
32:48
980
33:29
1000
34:10
1020
34:51
1040
35:32
1060
36:13
1080
36:54
1100
37:35
SCAN
TIME

MASS SPECTRUM
03/05/85 13:11:00 + 8:35
SAMPLE: 43234 CASE 3969 AB-030

DATA: V2740 #251

BASE M/E: 44
RIC: 8240.



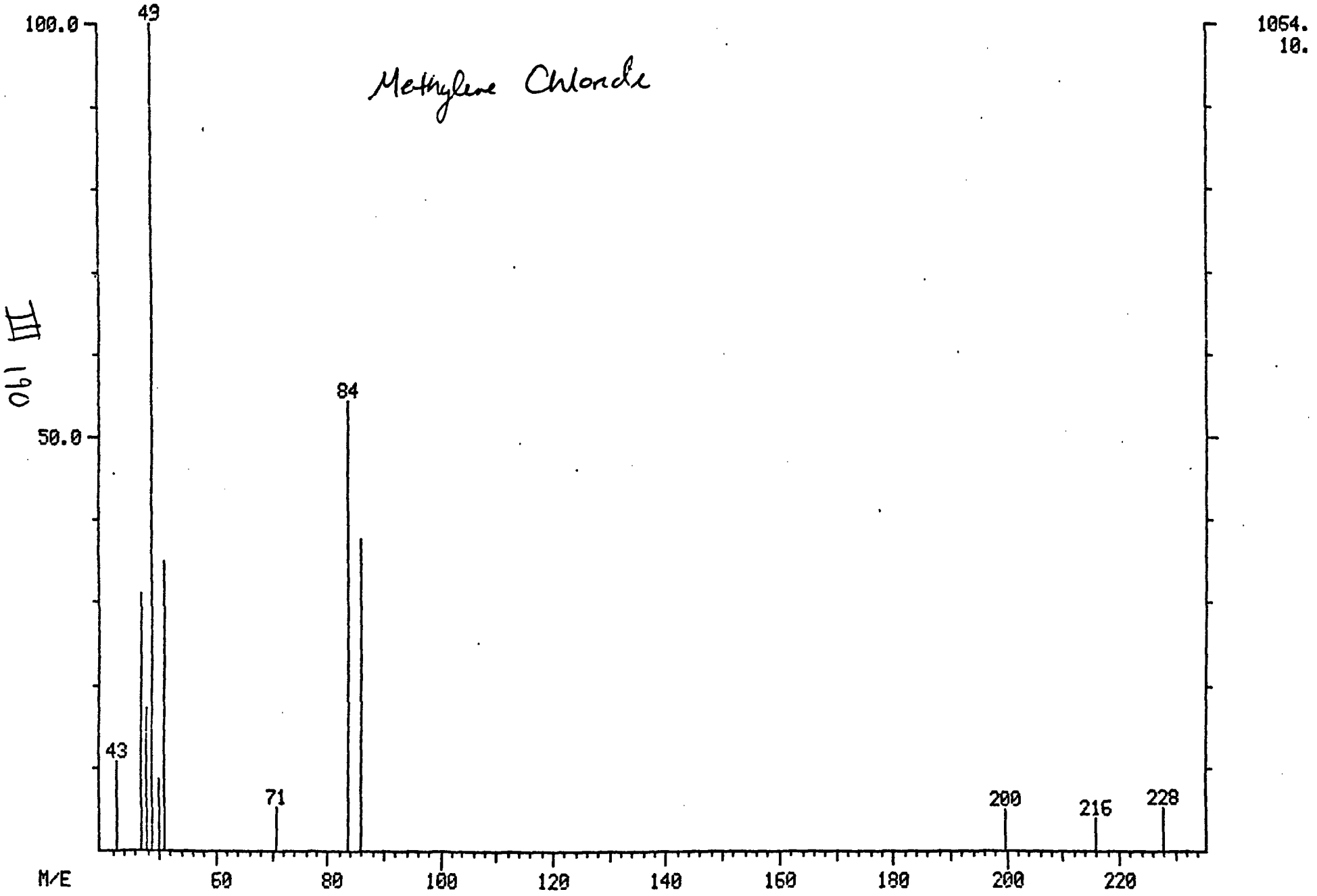
Methylene Chloride

181 III

MASS SPECTRUM
03/05/85 13:11:00 + 8:35
SAMPLE: 43234 CASE 3969 AB-030
ENHANCED (S 15B 2N)

DATA: V2740 #251

BASE M/E: 49
RIC: 3348.



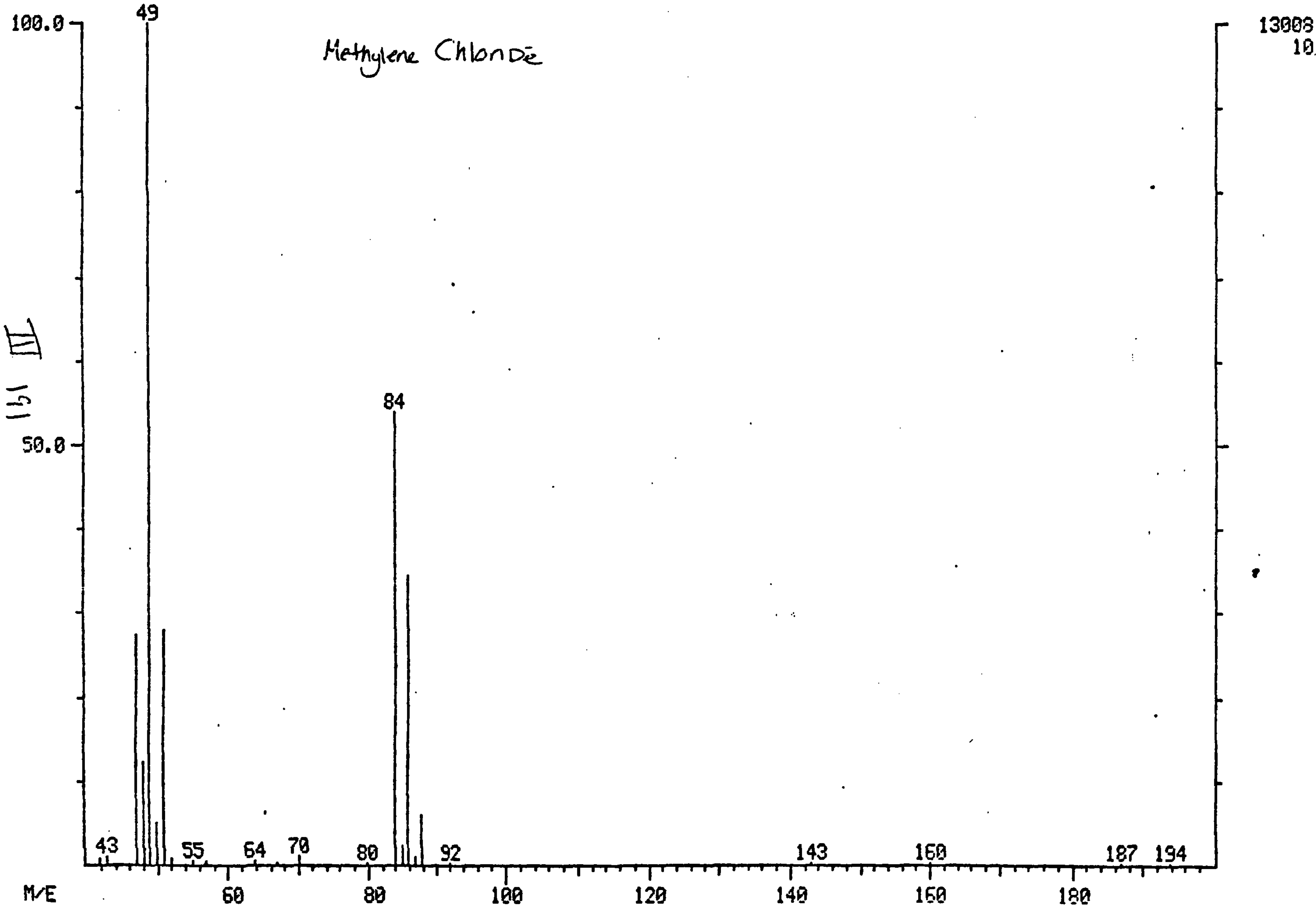
III 190

MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)

case ~~34~~ 3969 100 ppb

DATA: V2708 #248

BASE M/E: 49
RIC: 36224.



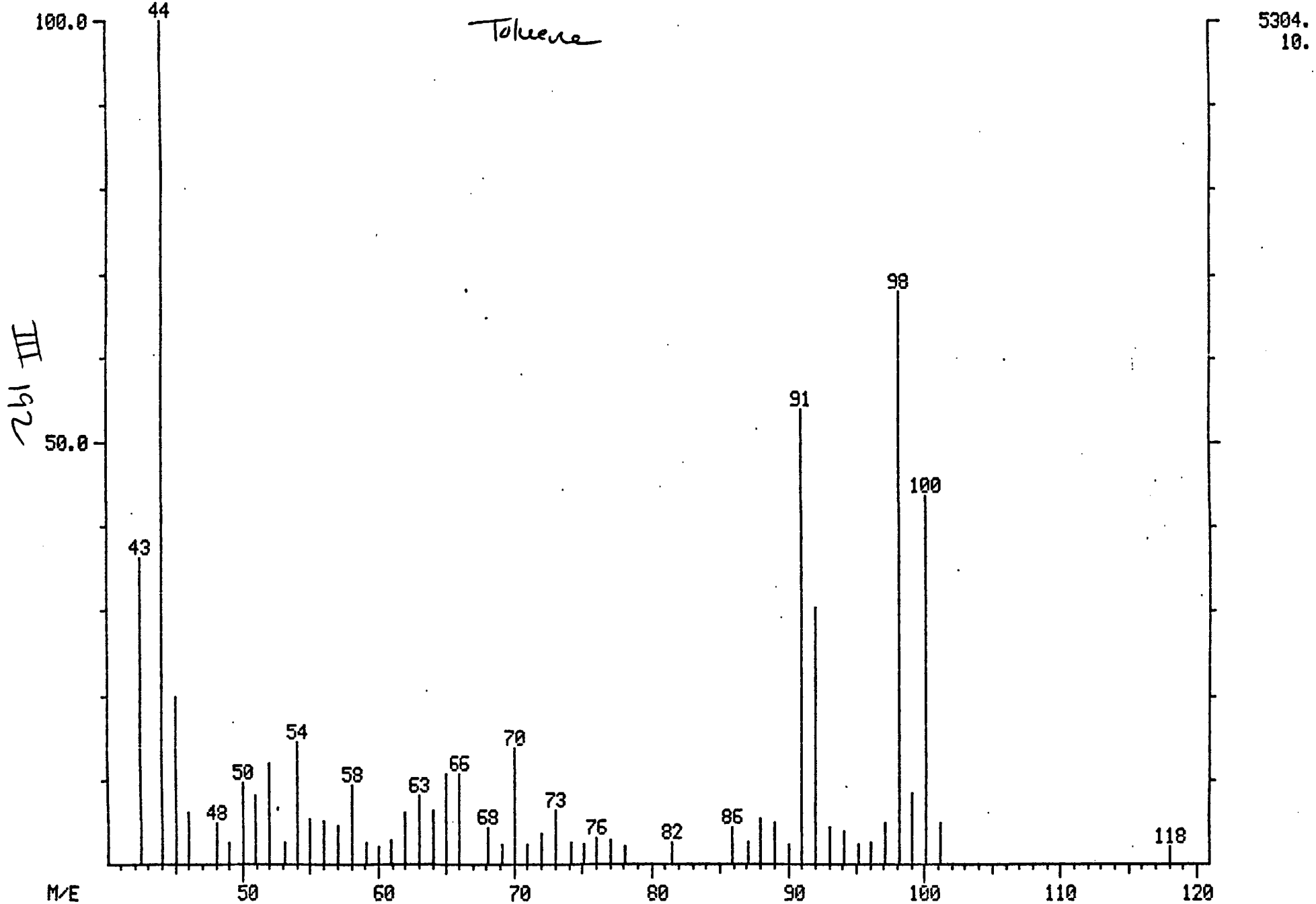
223

MASS SPECTRUM
03/05/85 13:11:00 + 23:06
SAMPLE: 43234 CASE 3969 AB-030

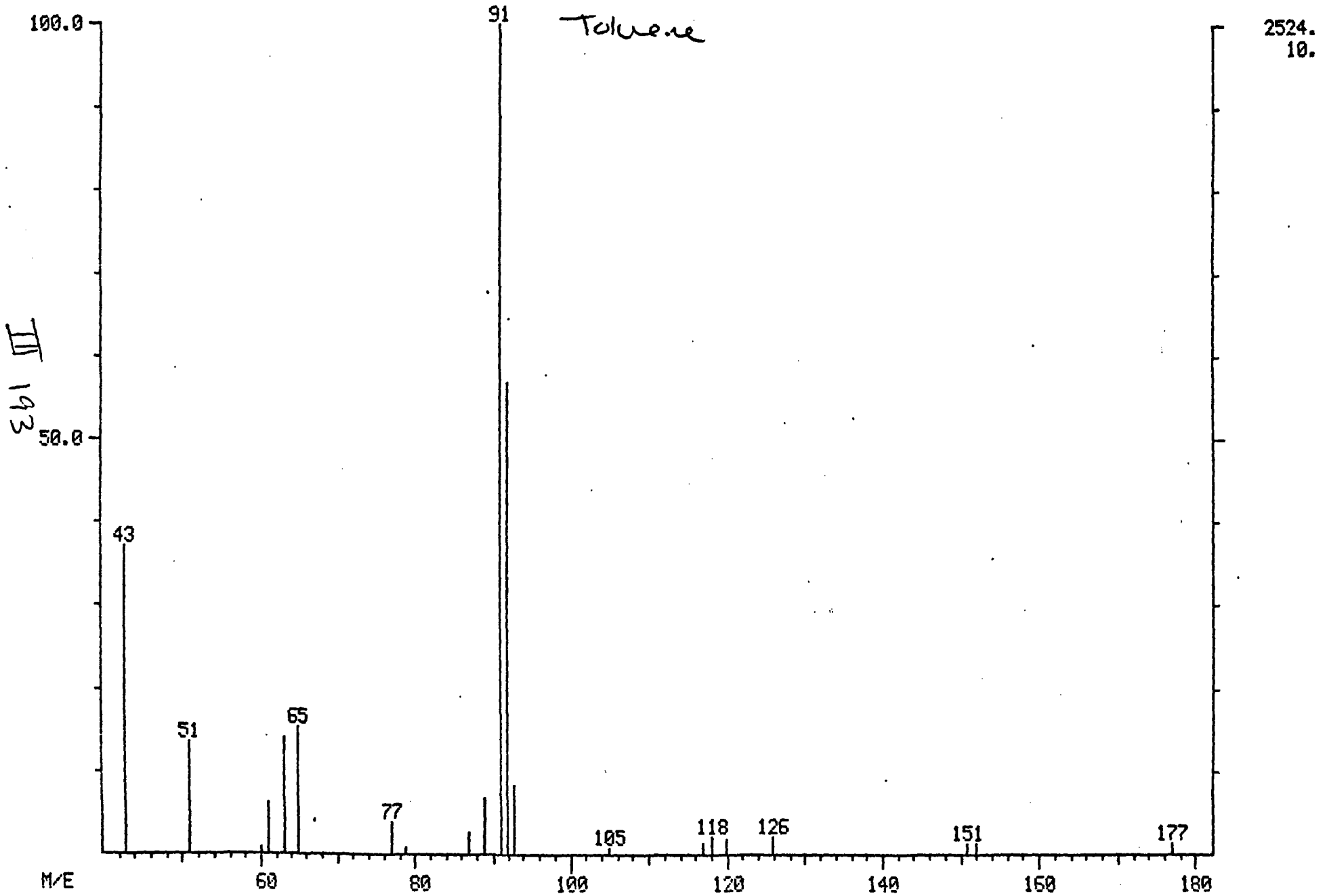
DATA: V2740 #676

BASE M/E: 44
RIC: 31104.

Toluene



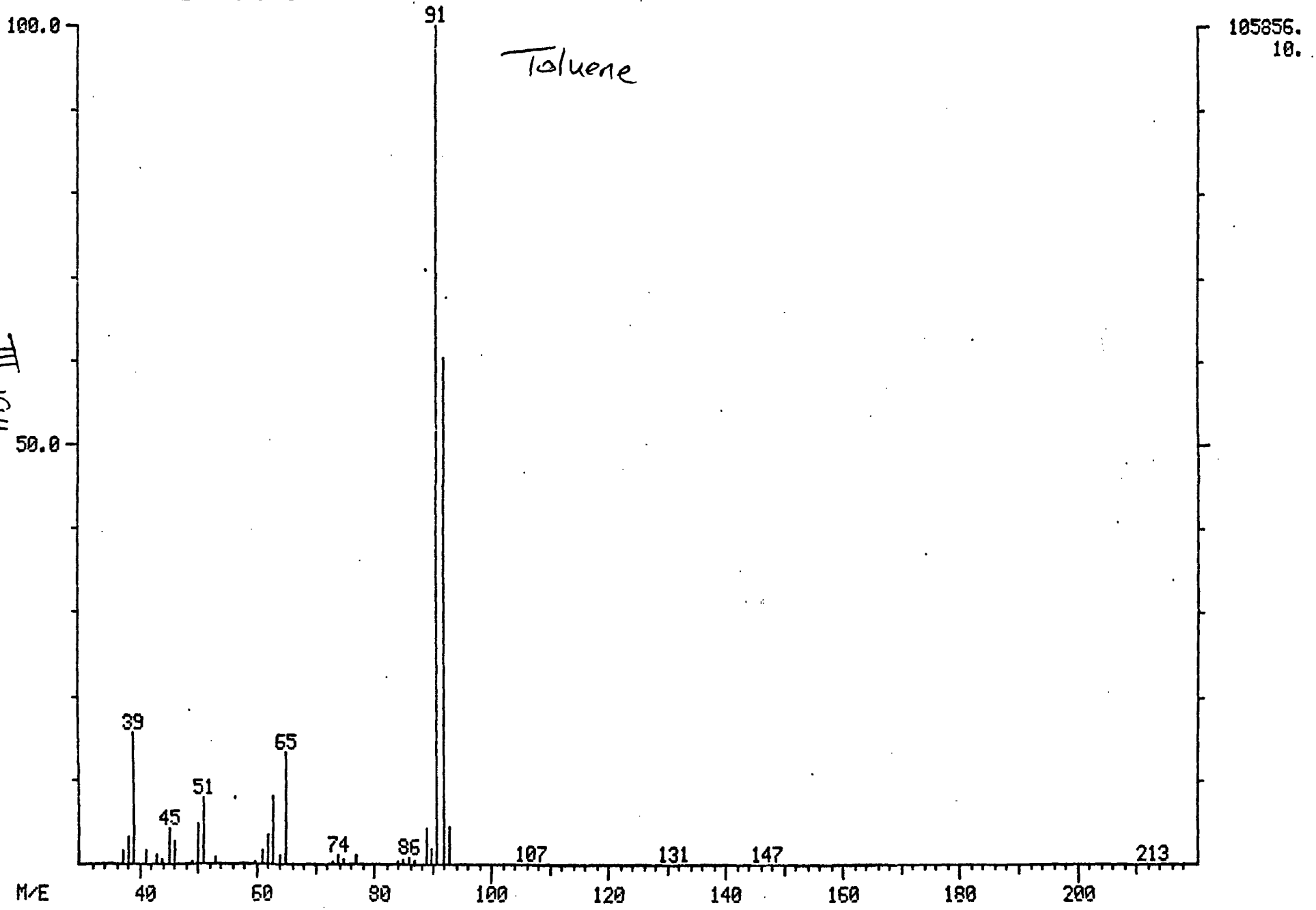
III 192


MASS SPECTRUM
03/05/85 13:11:00 + 23:06
SAMPLE: 43234 CASE 3969 AB-030
ENHANCED (S 15B 2N)
DATA: V2740 #676
BASE M/E: 91
RIC: 7072.
Toluene
100.0
50.0
2524.
10.
91
43
51
65
77
105
118
126
151
177
M/E
60
80
100
120
140
160
180

MASS SPECTRUM
03/29/85 12:27:00 + 23:49
SAMPLE: 100PPB CASE 3969
ENHANCED (S 15B 2N)

DATA: V2942 #697

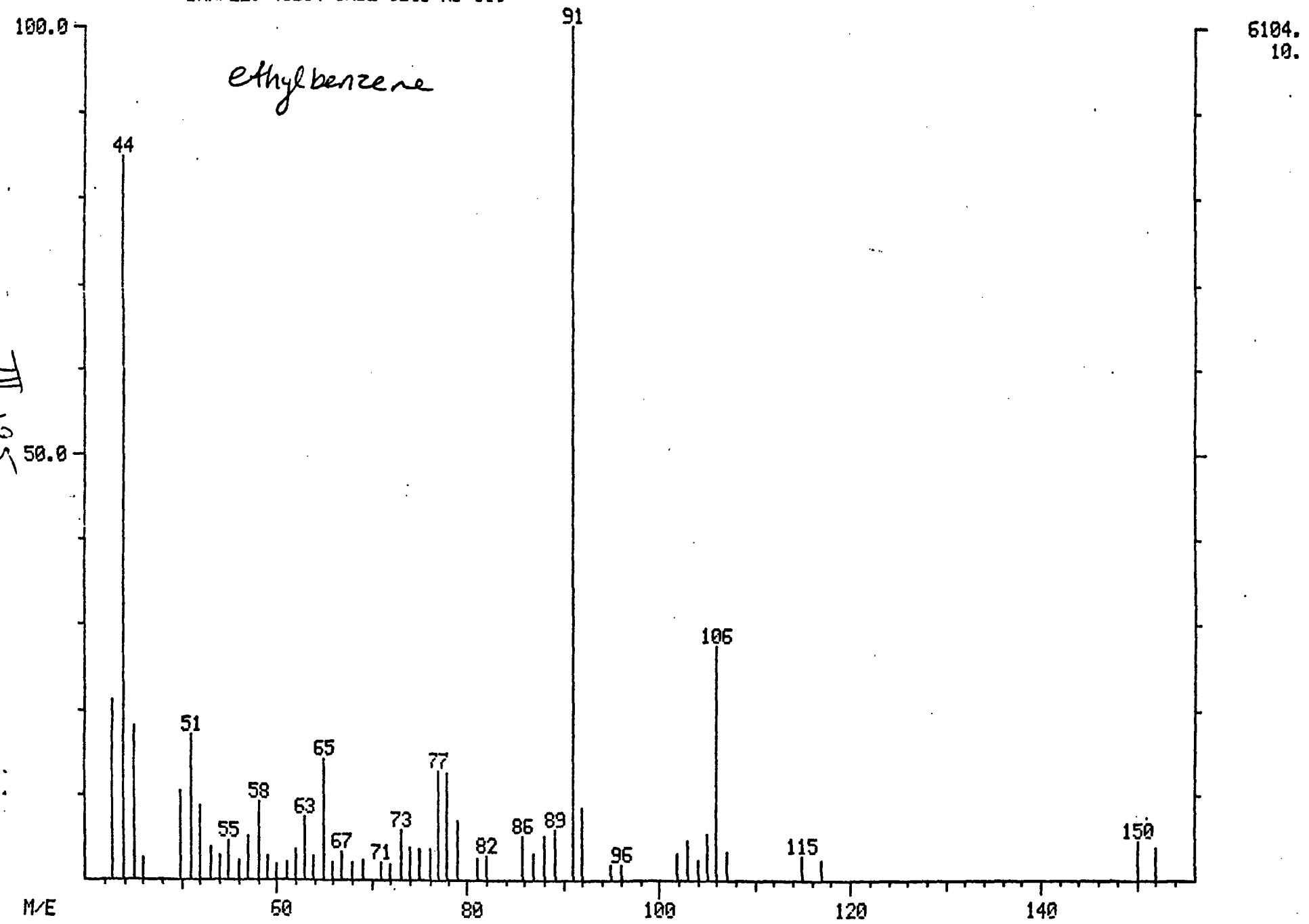
BASE M/E: 91
RIC: 261376.



MASS SPECTRUM
03/05/85 13:11:00 + 27:10
SAMPLE: 43234 CASE 3969 AB-030

DATA: V2740 #795

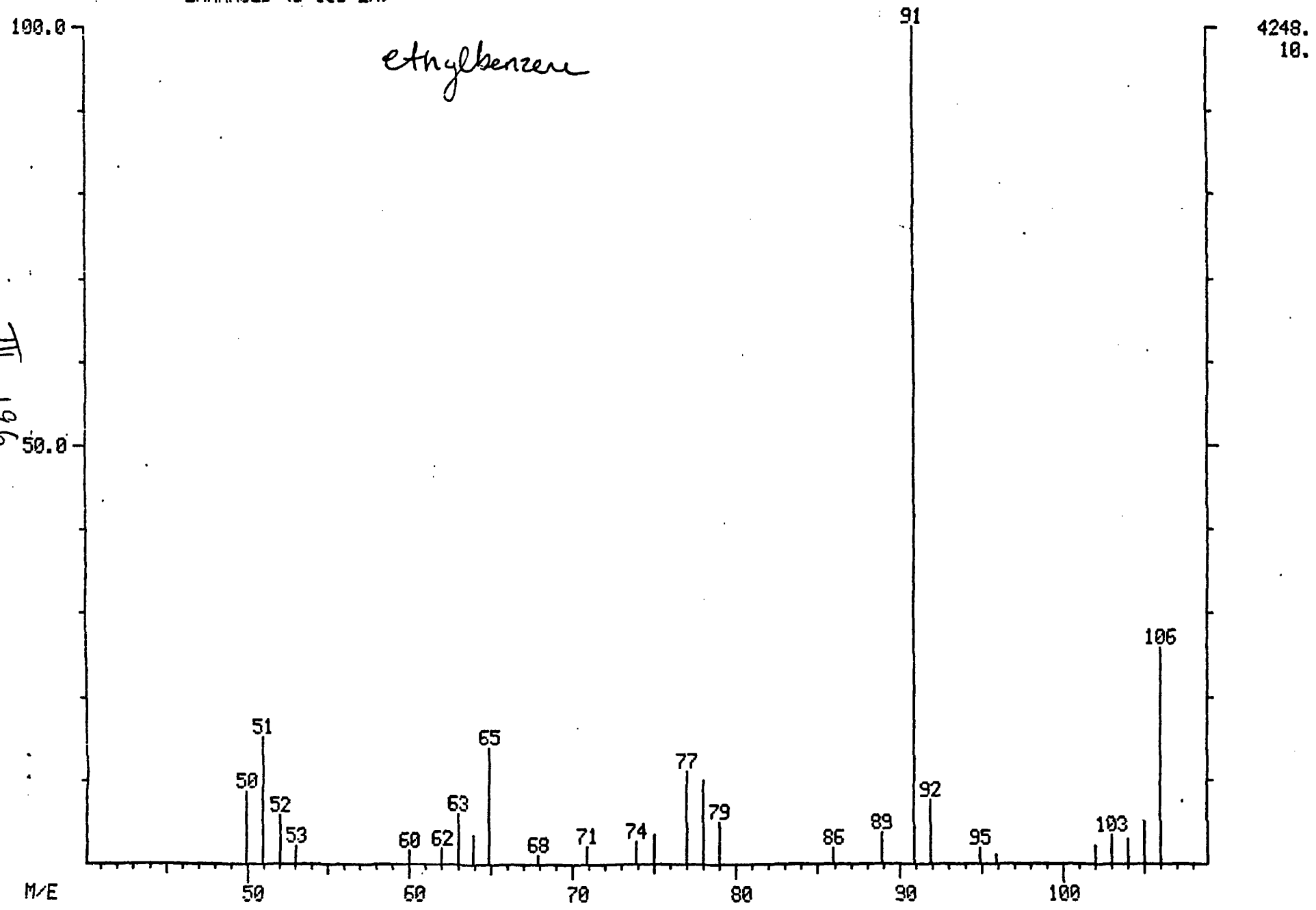
BASE M/E: 91
RIC: 29536.



MASS SPECTRUM
03/05/85 13:11:00 + 27:10
SAMPLE: 43234 CASE 3969 AB-030
ENHANCED (5 15B 2N)

DATA: V2740 #795

BASE M/E: 91
RIC: 10576.

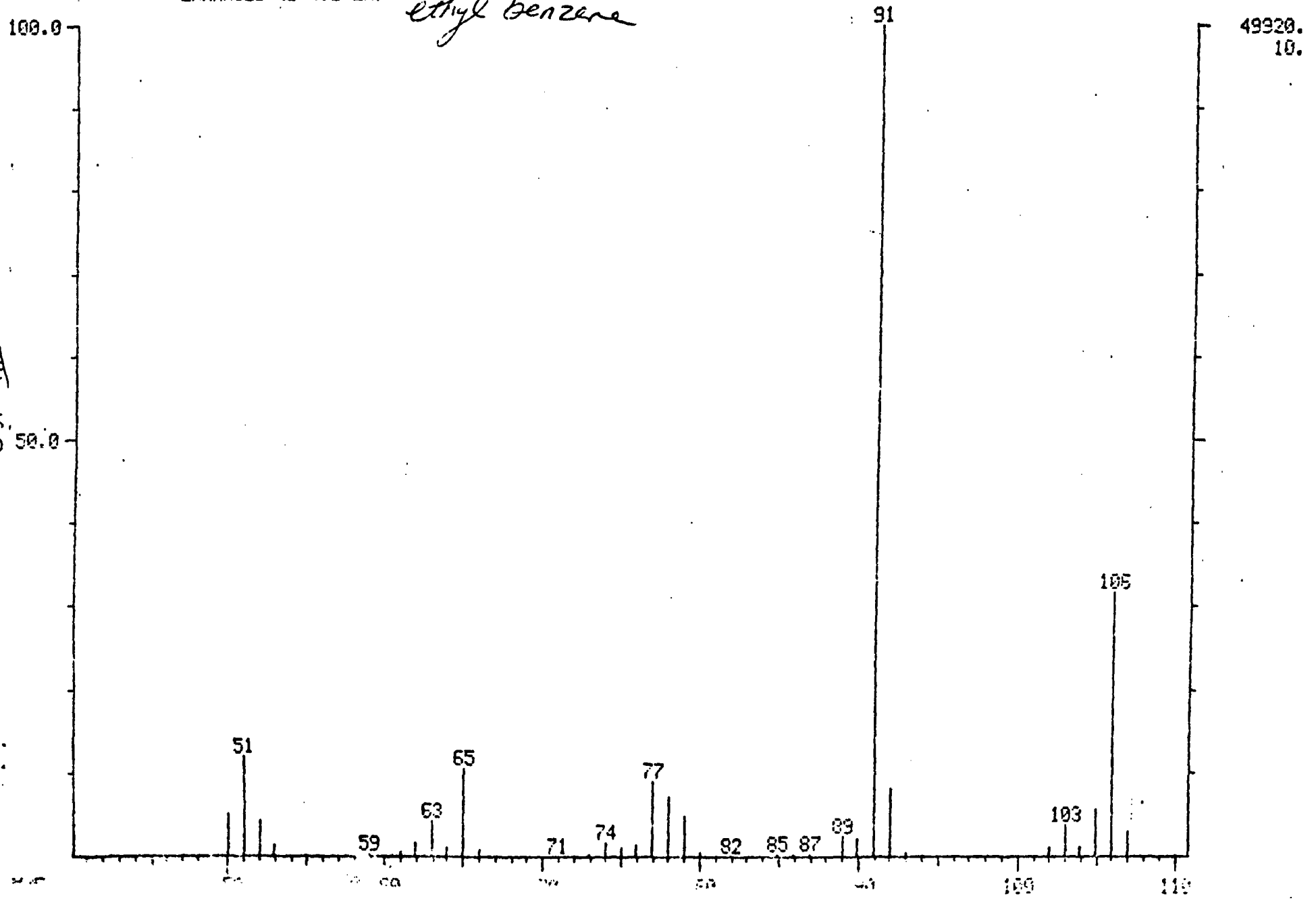


MASS SPECTRUM
02/20/85 13:19:00 + 28:13
SAMPLE: 150PPB CASE ~~3836-CM~~ 3969 CM
ENHANCED (S 15B 2N)

ethyl benzene

DATA: V2537 #826

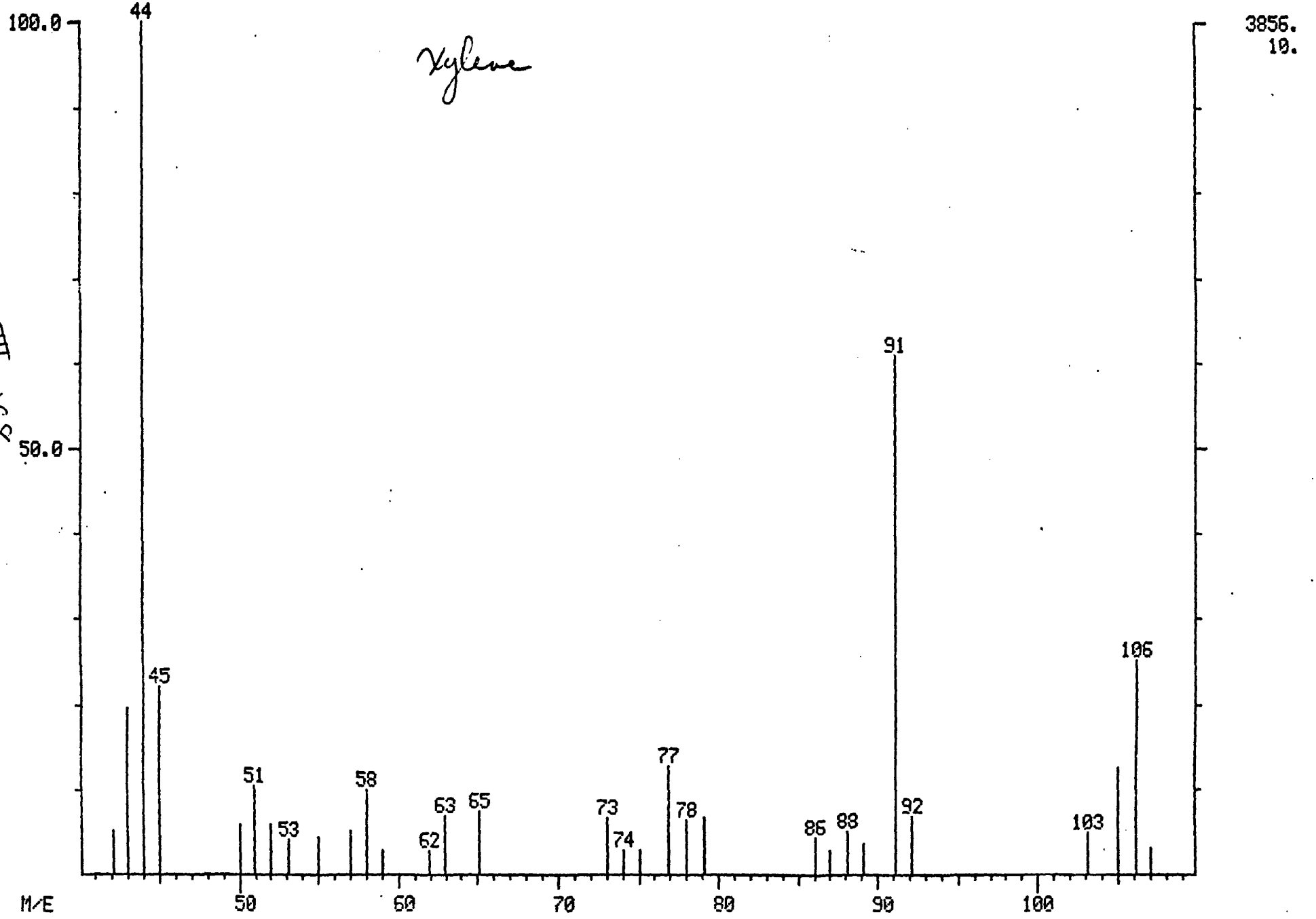
BASE M/E: 91
RIC: 112540.



MASS SPECTRUM
03/05/85 13:11:00 + 32:48
SAMPLE: 43234 CASE 3969 AB-030

DATA: V2740 #960

BASE M/E: 44
RIC: 14672.



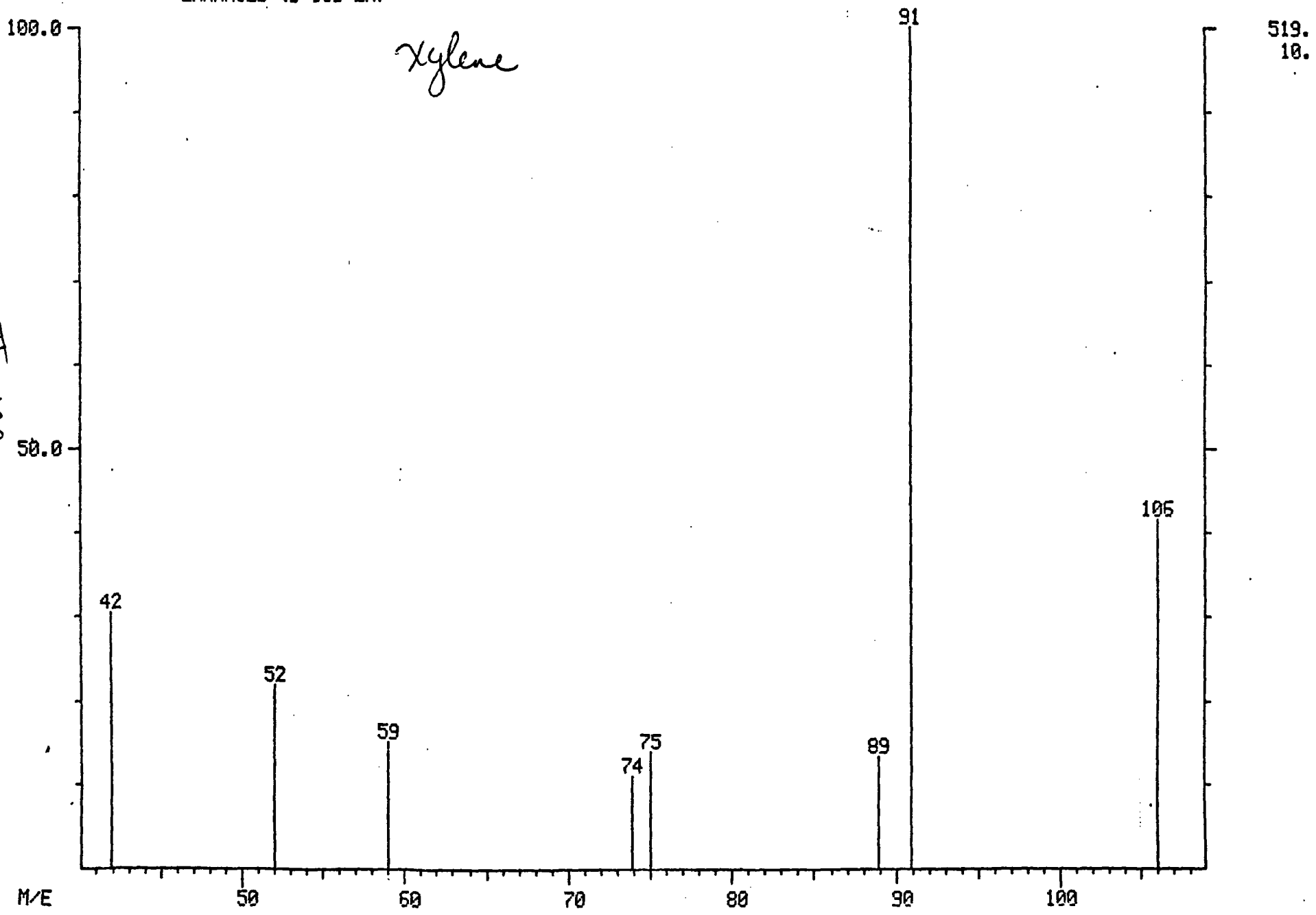
III 198

MASS SPECTRUM
03/05/85 13:11:00 + 32:48
SAMPLE: 43234 CASE 3969 AB-030
ENHANCED (S 15B 2N)

DATA: V2740 #960

BASE M/E: 91
RIC: 1286.

Xylene



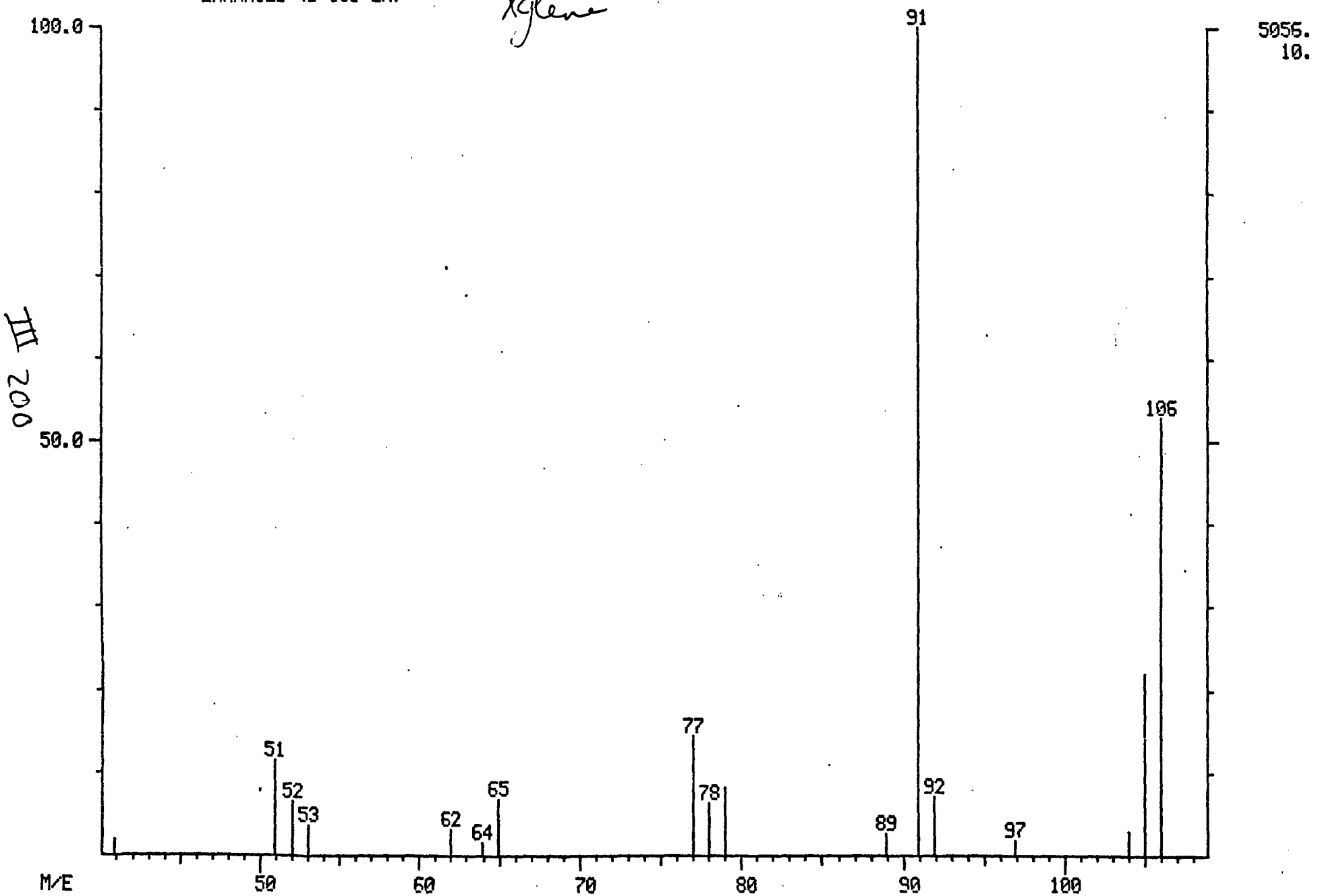
III 199

MASS SPECTRUM
03/29/85 12:27:00 + 42:16
SAMPLE: 100PPB CASE 3969
ENHANCED (S 15B 2N)

DATA: V2942 #1237

BASE M/E: 91
RIC: 12800.

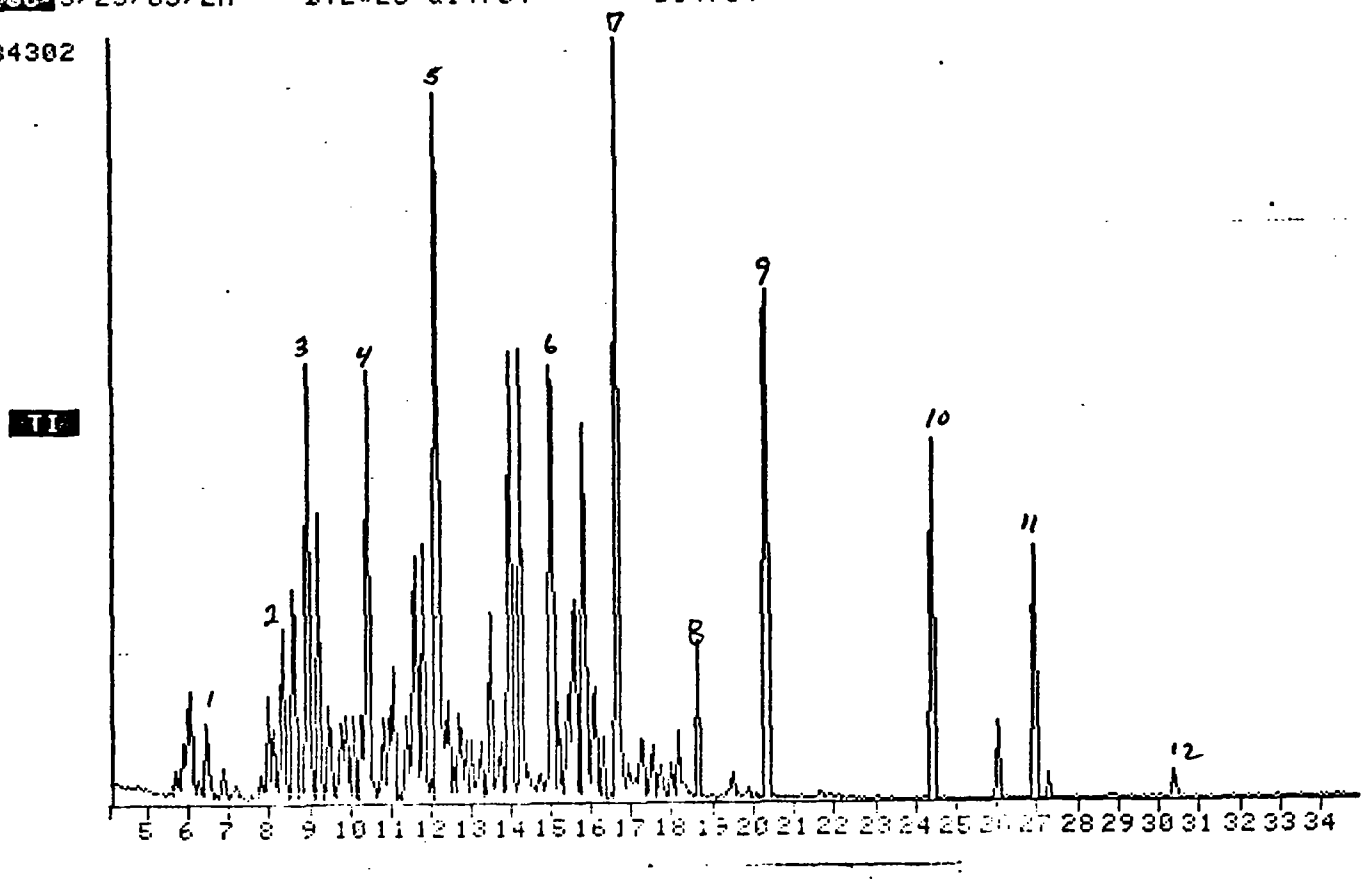
Xylene



002 III

NAME 43220 AB030 CASE 3969
MISC 3/25/85/EM BTL#23 Q14764 D14764

FRN 14764



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

III. 201

FILE NUMBER 14764

43220 AB030 CASE 3969

3/25/85/EM BTL#23 Q14764 D14764

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000				D4-1,4-DICHLOROBENZENE(20)
9.9	74.0	.046	.0000				N-NITROSODIMETHYLAMINE
8.4	93.0	.913	.0000				ANILINE
8.5	93.0	.709	.0000				BIS(2-CHLOROETHYL)ETHER
8.9	146.0	.591	.0000				1,3-DICHLOROBENZENE
9.0	146.0	.594	.0000				1,4-DICHLOROBENZENE
9.5	108.0	.395	.0000				BENZYL ALCOHOL
9.5	146.0	.594	.0000				1,2-DICHLOROBENZENE
9.9	45.0	.527	.0000				BIS(2-CHLOROISOPROPYL)ETHER
10.2	70.0	.490	.0000				N-NITROSODINPROPYLAMINE
10.2	117.0	.291	.0000				HEXACHLOROETHANE
10.4	77.0	.716	4.7207	EM			NITROBENZENE
12.1	68.0	1.000	80.0000				D8-NAPHTHALENE(20)
11.1	138.0	1.519	.0000				ISOPHORONE
11.8	95.0	1.813	.0000				BIS(2-CHLOROETHOXY)METHANE
12.1	180.0	2.642	.0000				1,2,4-TRICHLOROBENZENE
12.2	129.0	1.325	28.3686				NAPHTHALENE
12.5	127.0	4.577	.0000				4-CHLOROANILINE
12.7	225.0	1.190	.0000				HEXACHLOROBUTADIENE
14.0	115.0	2.578	.0000				2-METHYLNAPHTHALENE
16.7	164.0	1.000	80.0000				D10-ACENAPHTHENE
14.6	237.0	.205	.0000				HEXACHLOROCYCLOPENTADIENE
15.2	164.0	.281	.0000				2-CHLORONAPTHALENE
15.6	138.0	.397	.0000				2-NITROANILINE
16.2	164.0	.083	.0000				DIMETHYL PHTHALATE
16.3	151.0	.272	.0000				ACENAPHTHYLENE
16.4	165.0	.228	.0000				2,6-DINITROTOLUENE
16.7	138.0	.293	.0000				3-NITROANILINE
16.7	152.0	.437	7.3754	EM			ACENAPHTHENE
17.1	139.0	.490	2.0003	EM			DIBENZOFURAN
17.3	165.0	.320	.0000				2,4-DINITROTOLUENE
18.0	177.0	.171	.0000				DIETHYL PHTHALATE
18.0	165.0	.820	6.6211				FLUORENE
18.1	204.0	.358	.0000				4-CHLOROPHENYLPHENYL ETHER
18.2	138.0	.292	.0000				4-NITROANILINE
17.2	169.0	.144	12.4047	EM			DIPHENYLAMINE
12.1	68.0	1.000	80.0000				D8-NAPHTHALENE(20)
11.1	138.0	1.519	.0000				ISOPHORONE
11.8	95.0	1.850	.0000				BIS(2-CHLOROETHOXY)METHANE
12.1	180.0	2.642	.0000				1,2,4-TRICHLOROBENZENE
12.2	129.0	1.325	30.8412				NAPHTHALENE
12.5	127.0	4.577	.0000				4-CHLOROANILINE
12.7	225.0	1.190	.0000				HEXACHLOROBUTADIENE
14.0	142.0	6.812	59.1538				2-METHYLNAPHTHALENE

III 202

FILE NUMBER 14764

43220 AB030 CASE 3969

3/25/85/EM BTL#23 Q14764 D14764

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.3	188.0	1.000	80.0000		D10-PHENANTHRENE(20)		
19.3	248.0	.112	.0000		4-BROMOPHENYLPHENYL ETHER		
19.6	284.0	.112	.0000		HEXACHLOROBENZENE		
20.4	179.0	.060	8.4730	EM	PHENANTHRENE/ANTHRACENE		
22.1	150.0	.100	.0000		DIBUTYL PHTHALATE		
23.4	202.0	.665	.0000		FLUORANTHENE		
27.0	240.0	1.000	80.0000		D12-CHRYSENE		
23.9	202.0	2.264	.0000		PYRENE		
25.8	149.0	1.136	.0000		BUTYL BENZYL PHTHALATE		
26.9	228.0	.427	.0000		BENZO(A)ANTHRACENE/CHRYSENE		
27.3	149.0	1.128	6.7052		BIS(2-ETHYLHEXYL)PHTHALATE		
30.4	264.0	1.000	80.0000		D12-PERYLENE		
28.7	149.0	5.974	.0000		DIOCTYL PHTHALATE		
29.5	252.0	1.307	.0000		BENZO(B)/(K)FLUORANTHENE		
30.2	252.0	.744	.0000		BENZO(A)PYRENE		
33.7	276.0	.485	.0000		INDENO(123-CD)PYRENE		
33.8	278.0	.346	.0000		DIBENZO(AH)ANTHRACENE		
34.6	276.0	.360	.0000		BENZO(GHI)PERYLENE		
27.0	240.0	1.000	80.0000		D12-CHRYSENE		
23.8	184.0	.712	.0000		BENZIDINE		
27.0	252.0	.146	.0000		DICHLOROBENZIDINE		

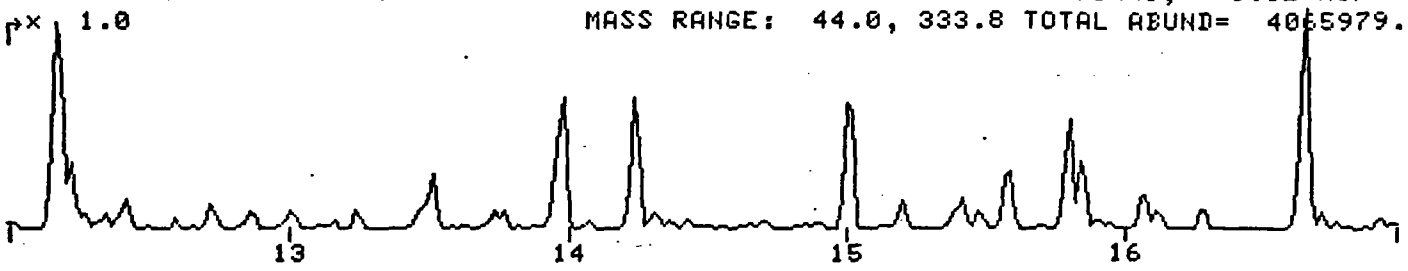
FILE NUMBER 14764

43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764

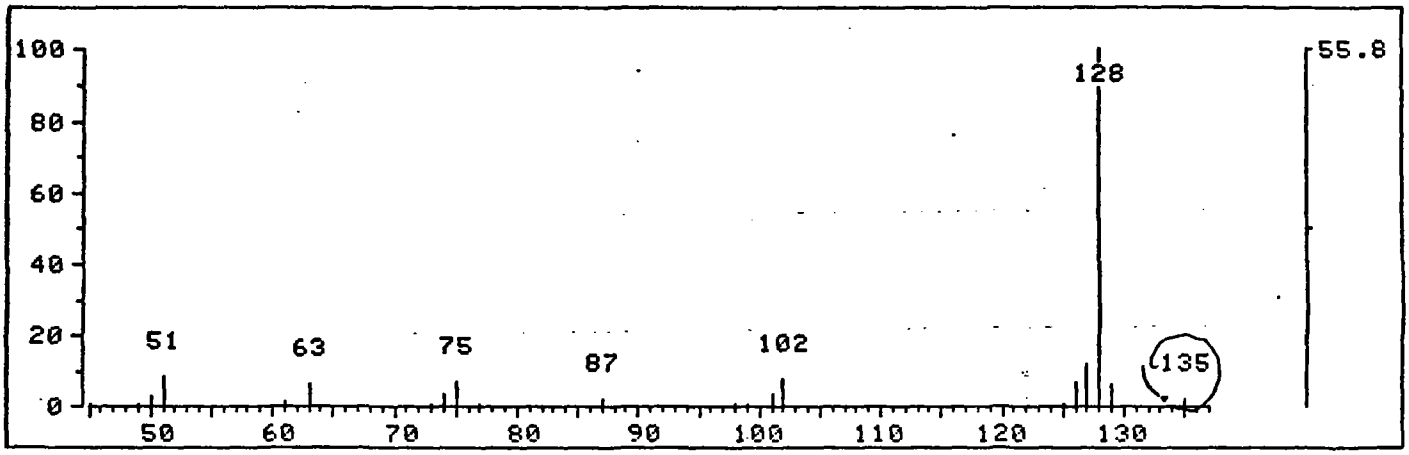
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	2.2898 EM	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
14.0	142.0	2.196	183.5078 EM	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

III 204

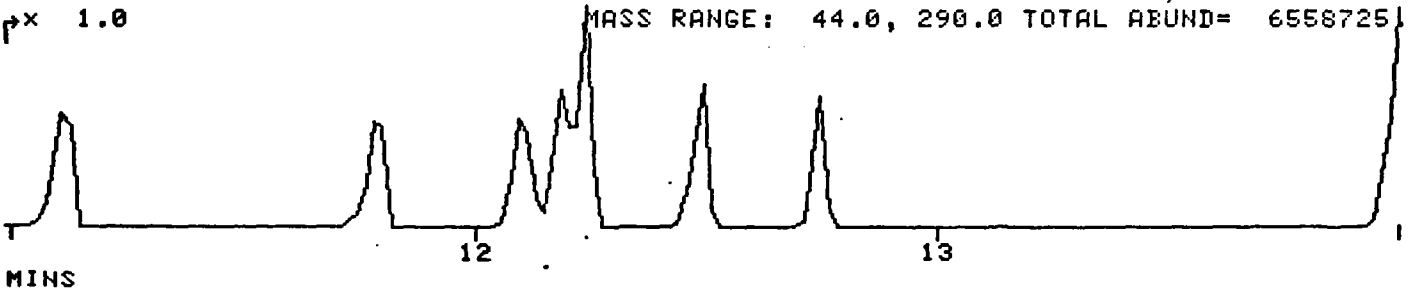
43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (275 SCANS, 5.02 MINS)
FRN 14764, CRN 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.



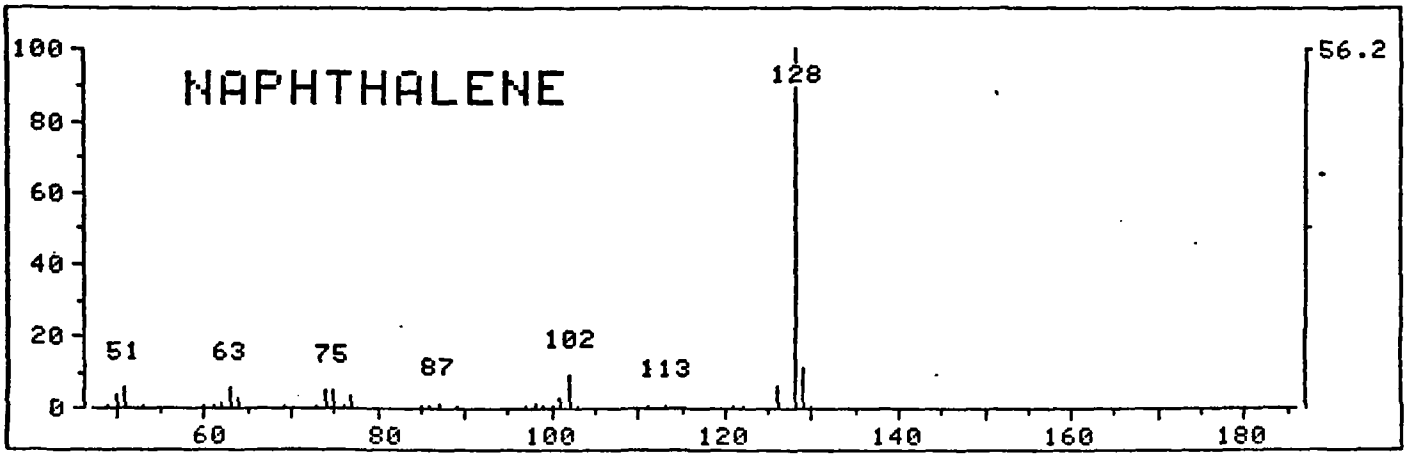
AVERAGED SPECTRUM * BASE PK/ABUND: 128.1/ 32000. + 446 -444 -454



80BN
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (166 SCANS, 3.02 MINS)
FRN 14749, CRN 7
MASS RANGE: 44.0, 290.0 TOTAL ABUND= 6558725

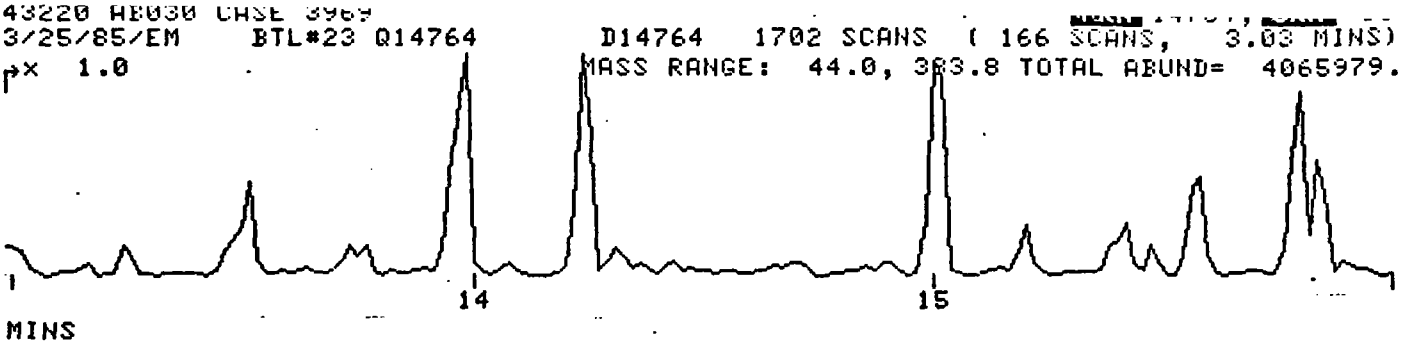


AVERAGED SPECTRUM * BASE PK/ABUND: 128.1/ 32000. + 449 -446 -456



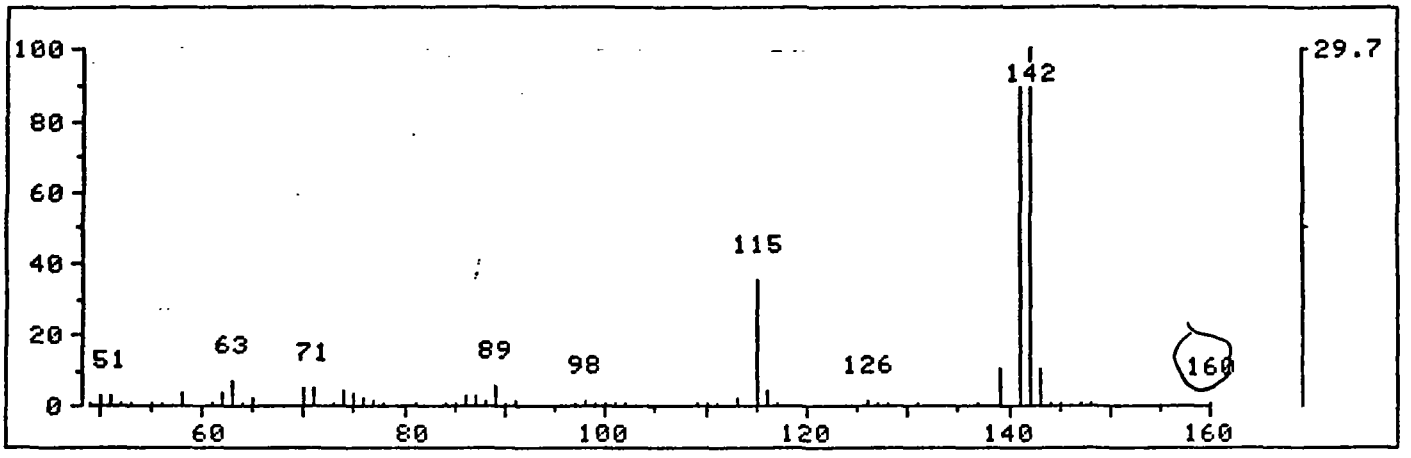
III 205

43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (166 SCANS, 3.03 MINS)
×1.0 MASS RANGE: 44.0, 383.8 TOTAL ABUND= 4065979.

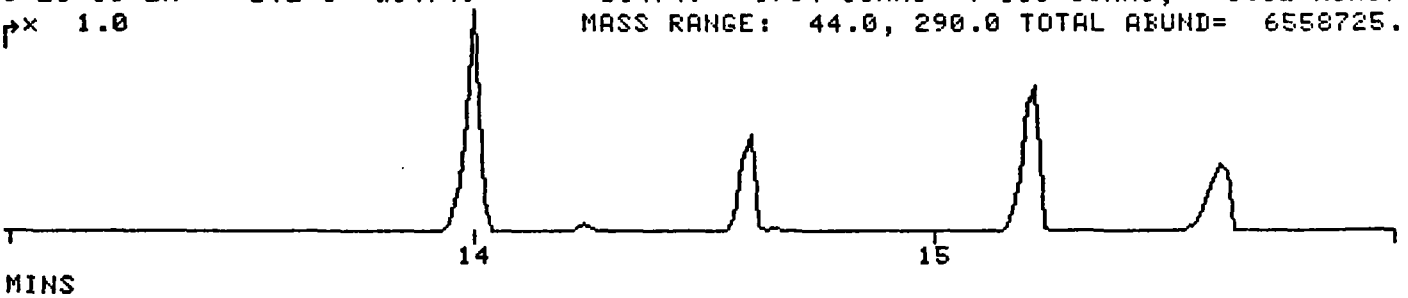


MINS

544 RET. TIME: 13.98 TOT ABUND= 50126. BASE PK/ABUND: 142.1/ 14902.

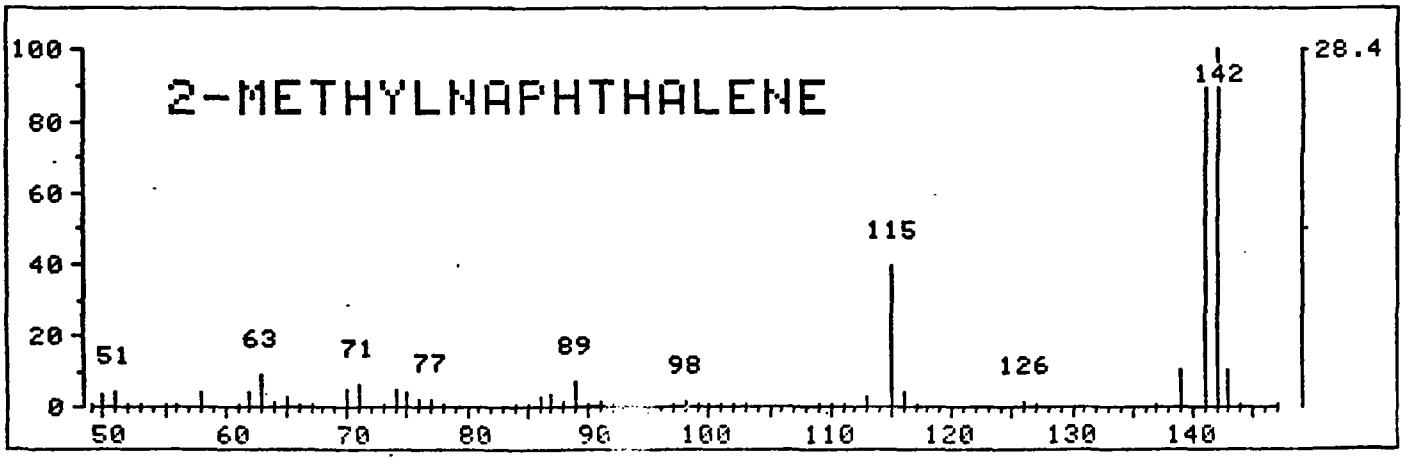


80BN FRN 14749, GRN= 7
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (166 SCANS, 3.02 MINS)
×1.0 MASS RANGE: 44.0, 290.0 TOTAL ABUND= 6558725.

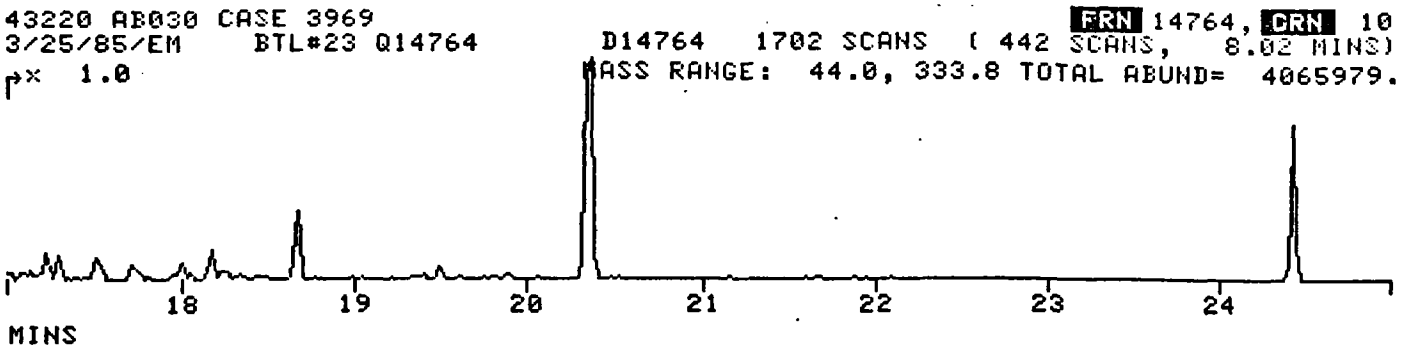


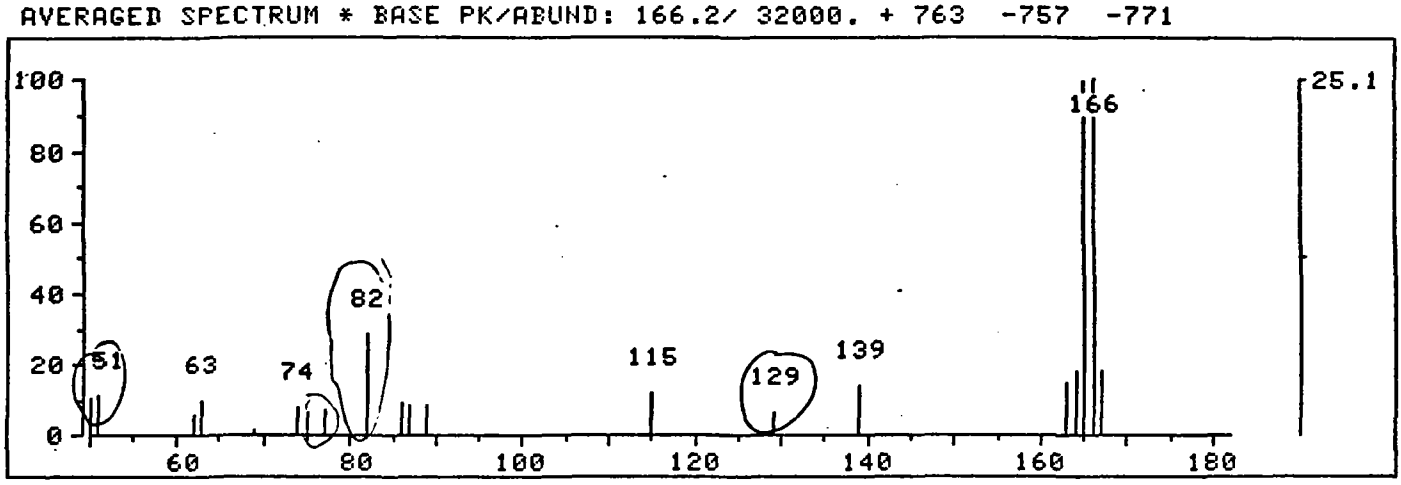
MINS

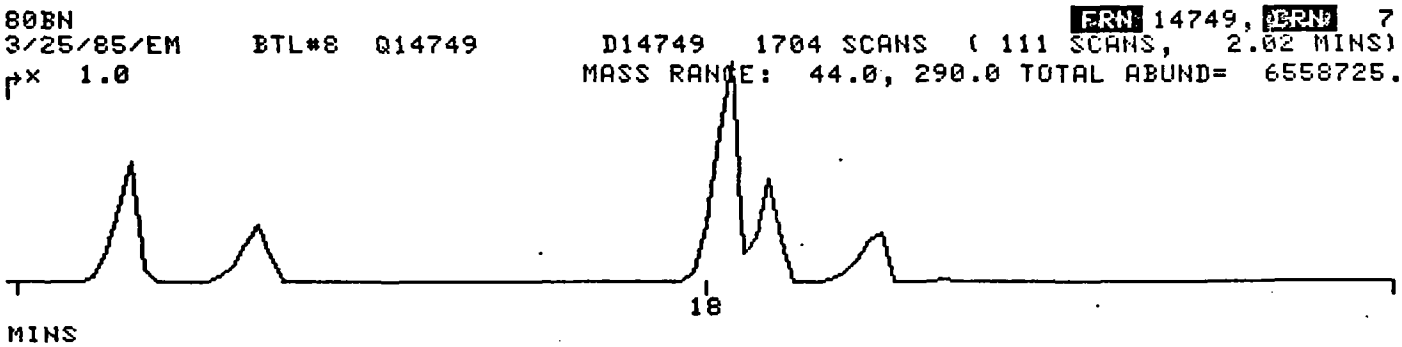
546 RET. TIME: 14.00 TOT ABUND= 101070. BASE PK/ABUND: 142.1/ 28720.

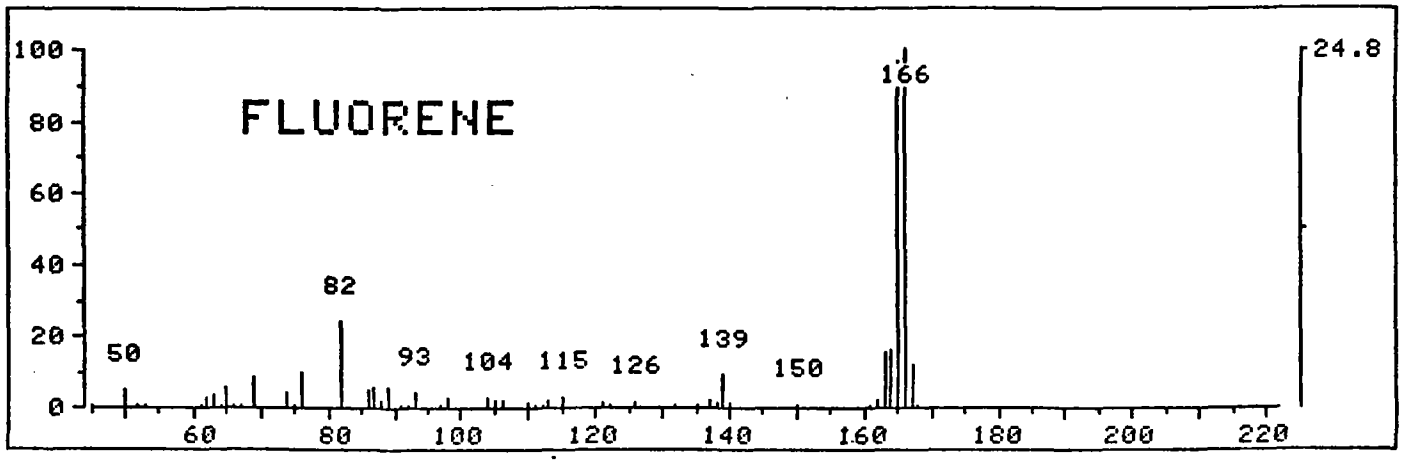


III 206


43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764
FRN 14764, CRN 10
D14764 1702 SCANS (442 SCANS, 8.02 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.
18
19
20
21
22
23
24
MINS

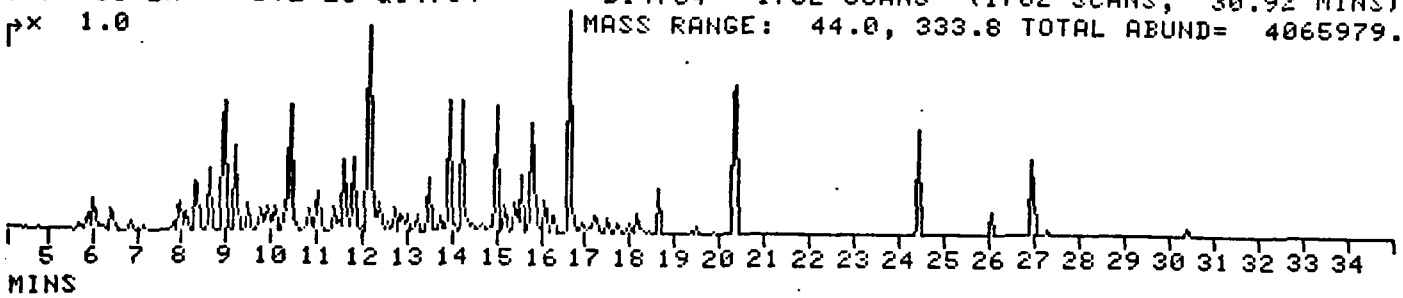

AVERAGED SPECTRUM * BASE PK/ABUND: 166.2/ 32000. + 763 -757 -771
166
25.1
82
51
63
74
115
129
139


80BN
3/25/85/EM BTL#8 Q14749
FRN 14749, CRN 7
D14749 1704 SCANS (111 SCANS, 2.02 MINS)
MASS RANGE: 44.0, 290.0 TOTAL ABUND= 6558725.
18
MINS

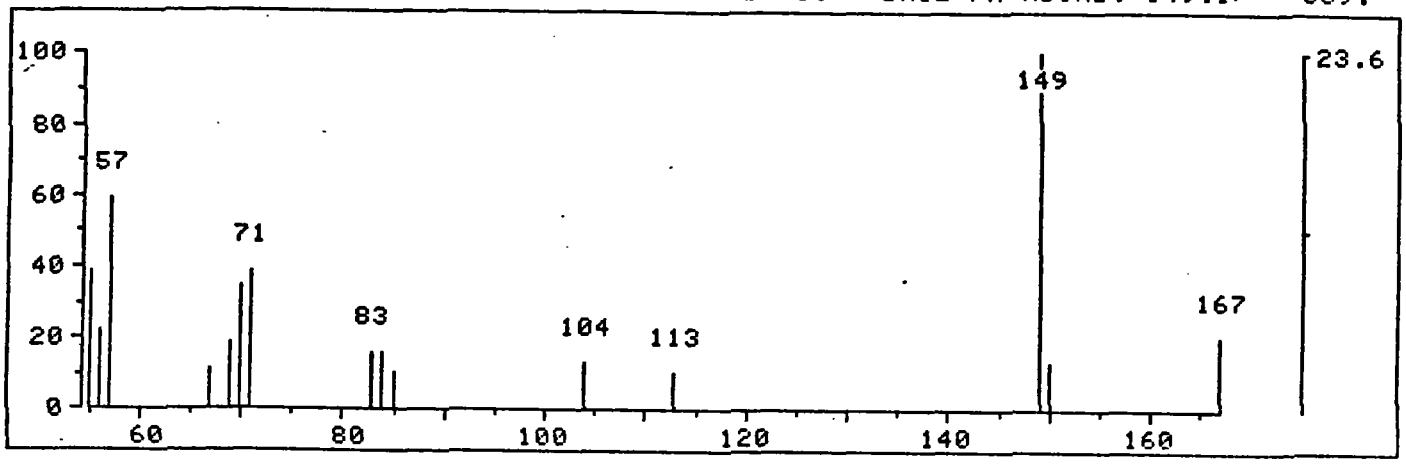

AVERAGED SPECTRUM * BASE PK/ABUND: 166.2/ 32000. + 766 -769 -761
FLUORENE
166
24.8
82
50
93
104
115
126
139
150

III 207

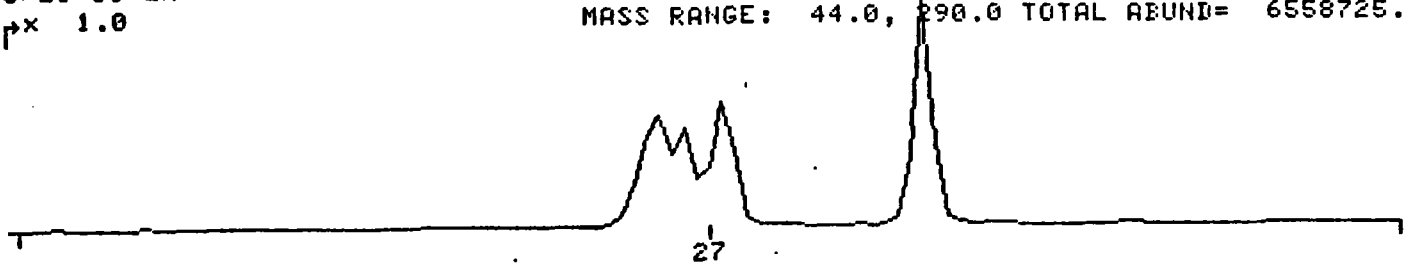
43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (1702 SCANS, 30.92 MINS)
FRN 14764, CRN 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.



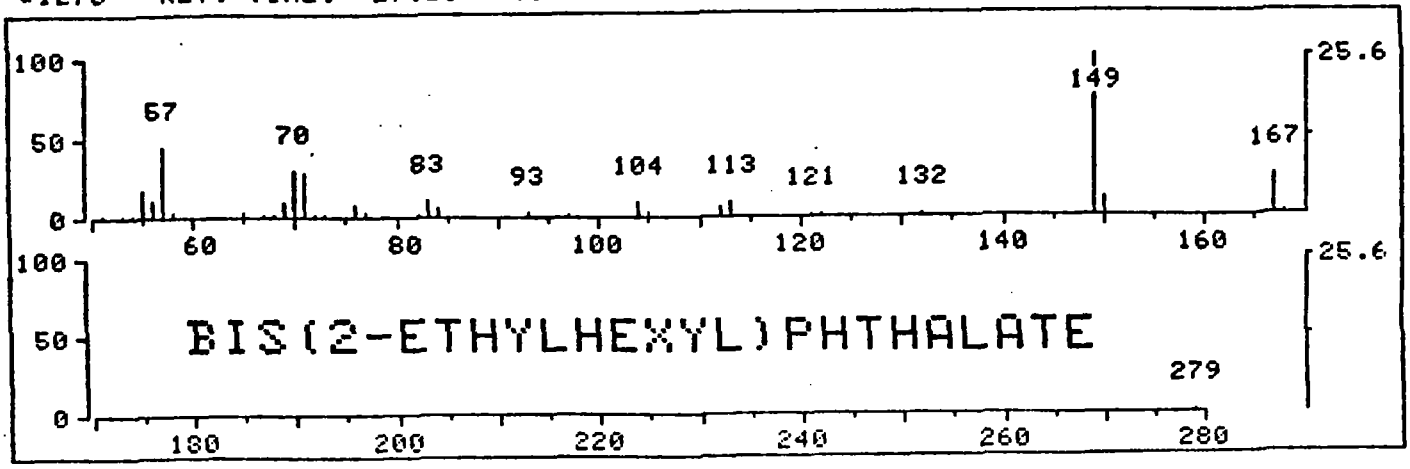
#1276 RET. TIME: 27.28 TOT ABUND= 2156. BASE PK/ABUND: 149.1/ 509.



80BN
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (111 SCANS, 2.02 MINS)
FRN 14749, CRN 7
MASS RANGE: 44.0, 290.0 TOTAL ABUND= 6558725.

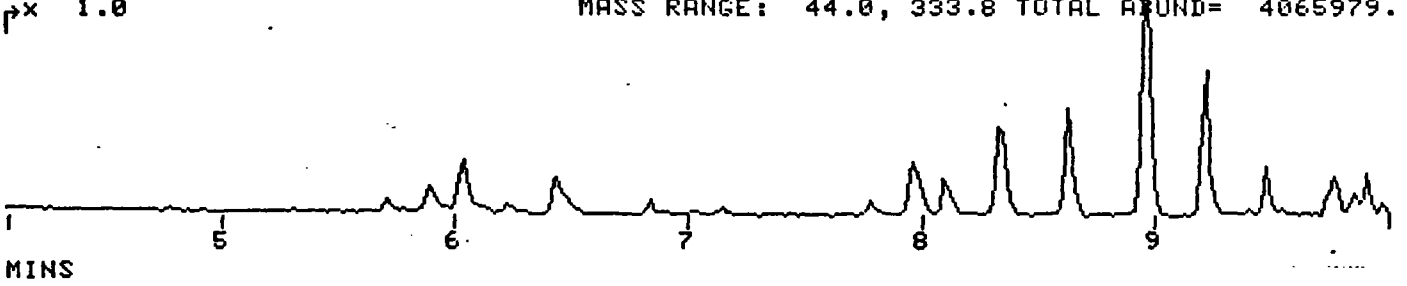


#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.

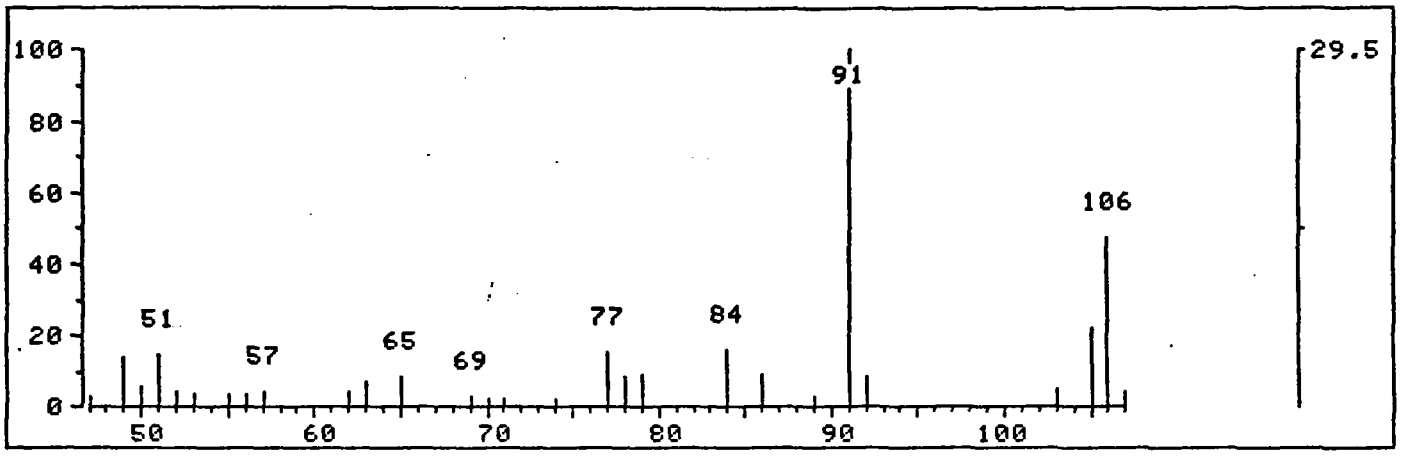


III 208

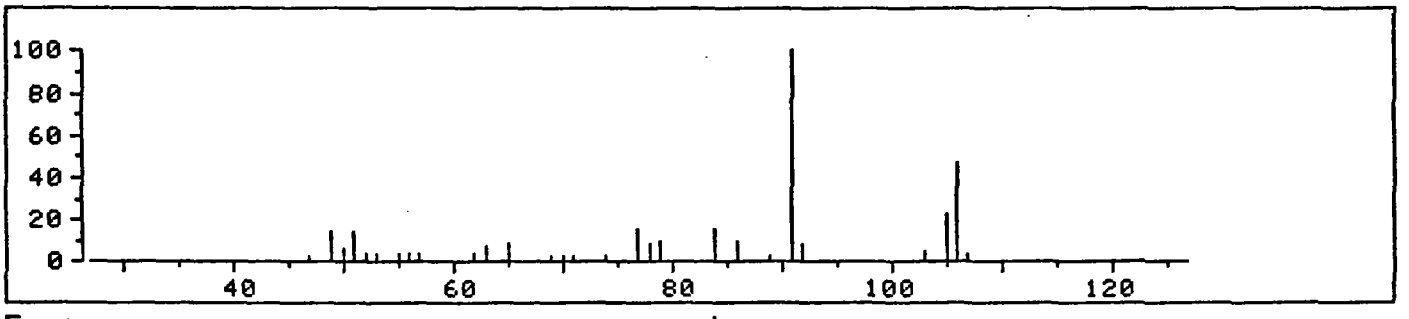
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (.326 SCANS, 5.52 MINS)
x 1.0 MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.



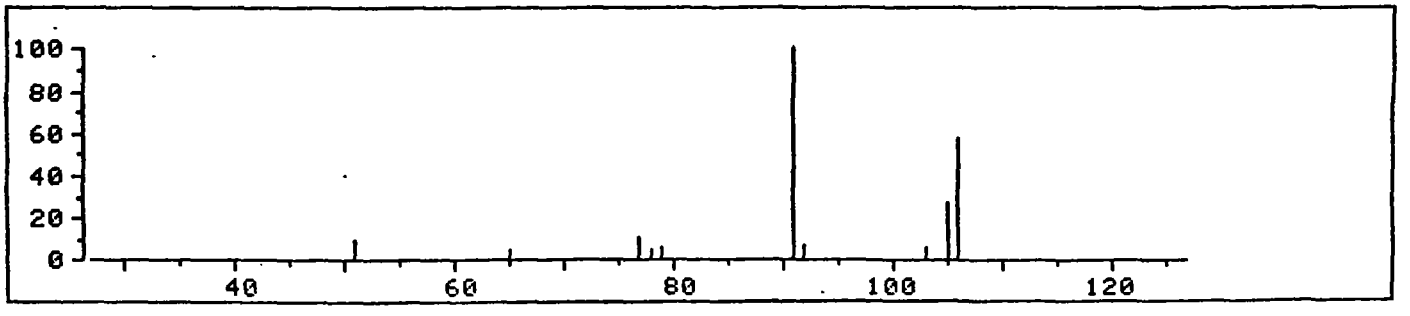
* 100 RET. TIME: 5.90 TOT ABUND= 6964. BASE PK/ABUND: 91.1/ 2053.



10 HITS: REFERENCE FRN 14764 SCAN 100

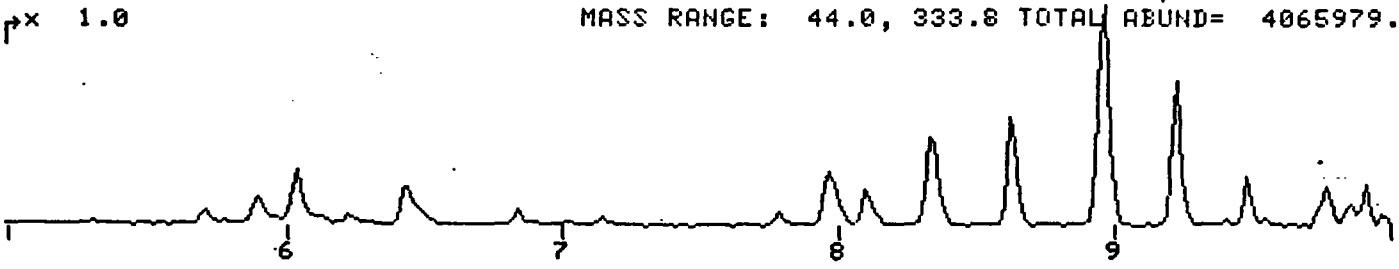


* 1 LFRN 3002 SPECT 1286 MW= 106 C8H10
.9807 Benzene, 1,2-dimethyl- (9CI)



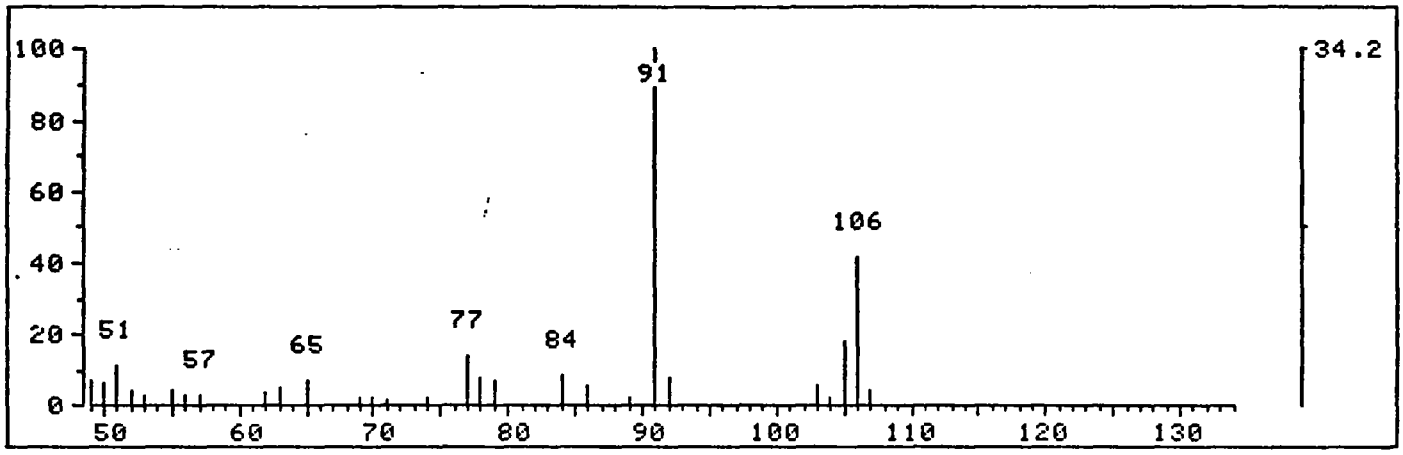
III 209

43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (276 SCANS, 5.02 MINS)
FRN 14764, CRN 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.
x 1.0

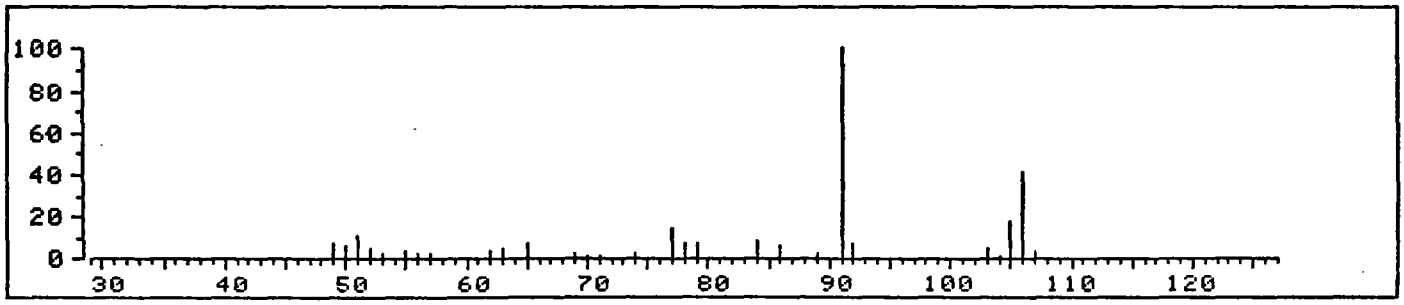


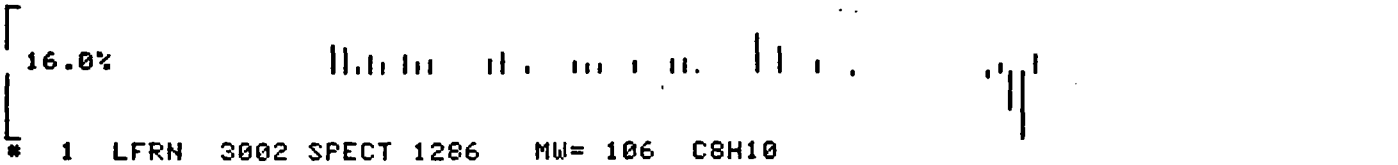
MINS

* 130 RET. TIME: 6.45 TOT ABUND= 9104. BASE PK/ABUND: 91.1/ 3115.

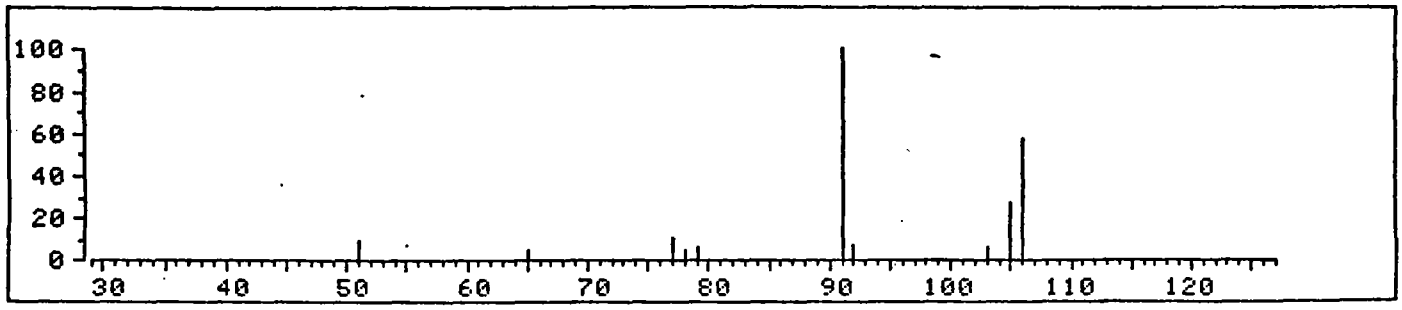


10 HITS: REFERENCE FRN 14764 SCAN 130



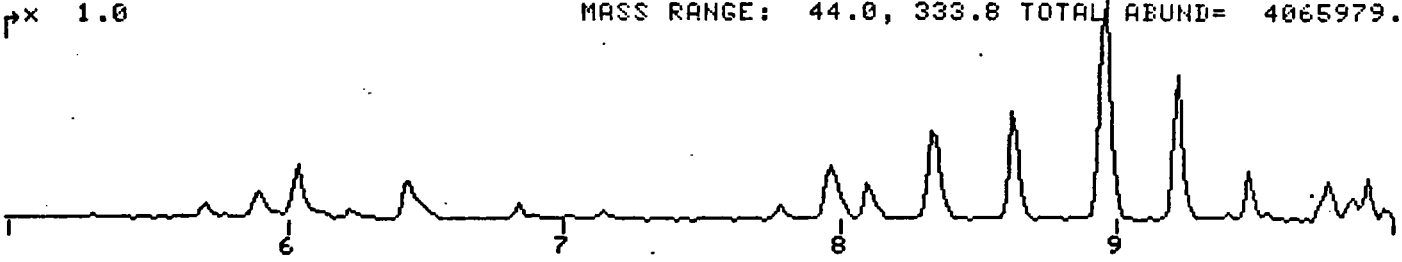


* 1 LFRN 3002 SPECT 1286 MW= 106 C8H10
.9808 Benzene, 1,2-dimethyl- (9CI)



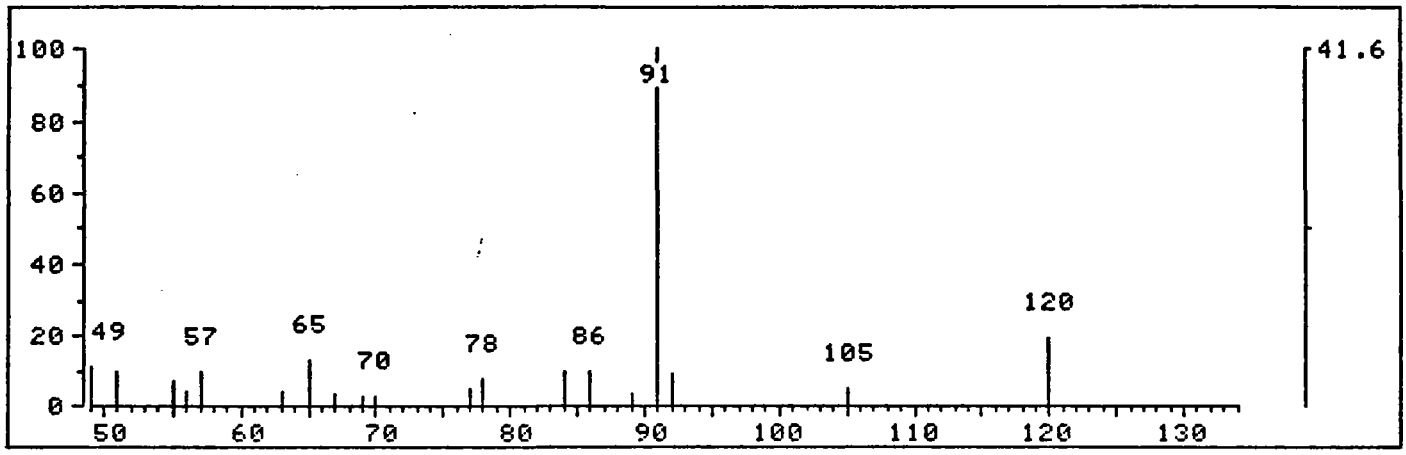
III 210

43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (276 SCANS, 5.02 MINS)
FRN 14764, CRN 10
px 1.0 MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

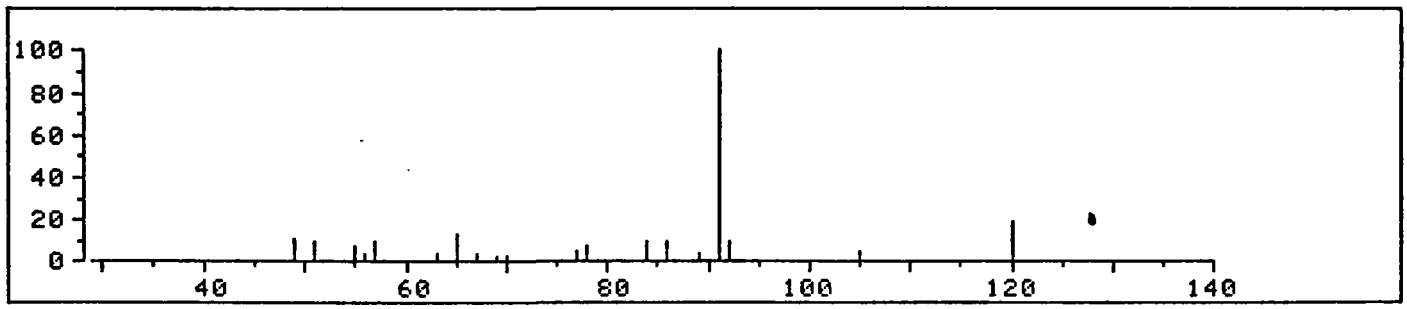


MINS

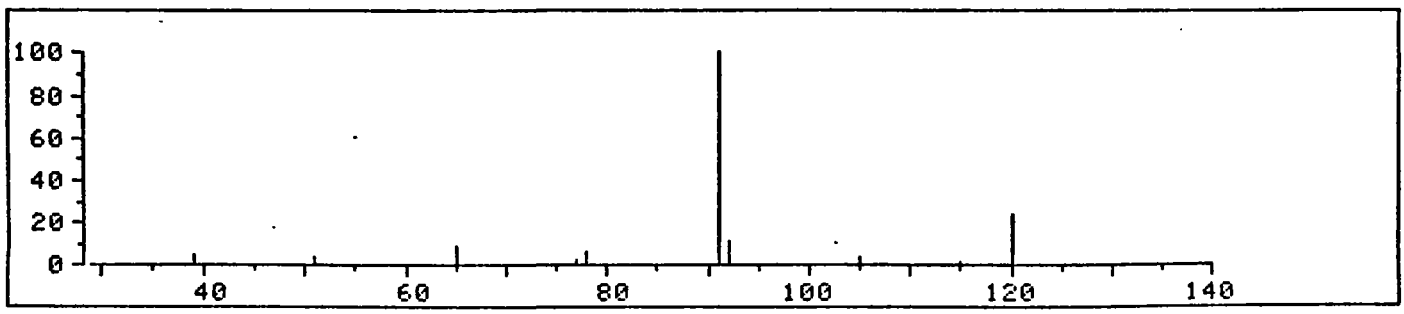
* 204 RET. TIME: 7.78 TOT ABUND= 3558. BASE PK/ABUND: 91.2/ 1479.



10 HITS: REFERENCE FRN 14764 SCAN 204

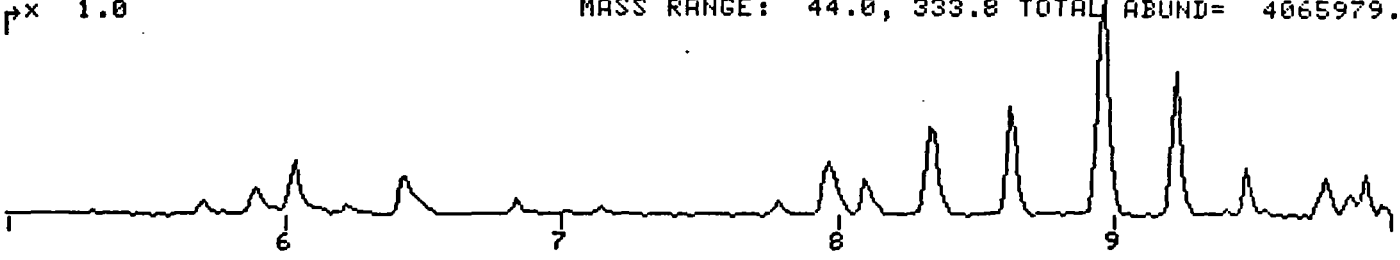


* 1 LFRN 3002 SPECT 2178 MW= 120 C9H12
.9773 Benzene, propyl- (8CI9CI)



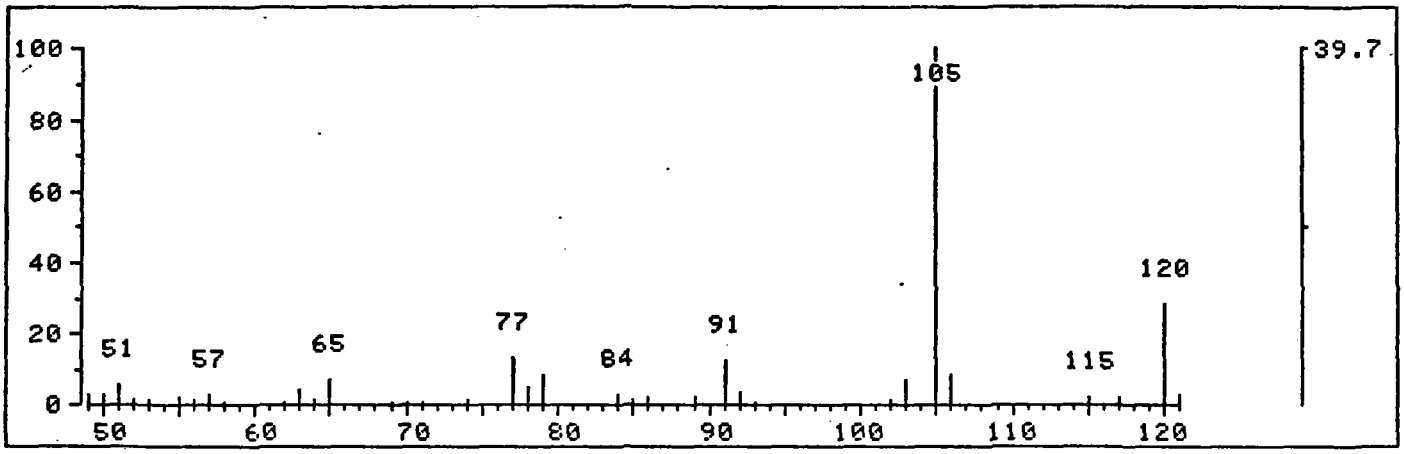
III 211

43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (276 SCANS, 5.02 MINS)
FRN 14764, CRN: 10
X 1.0 MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

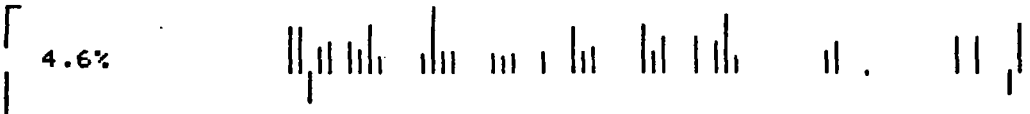


MINS

214 RET. TIME: 7.97 TOT ABUND= 12065. BASE PK/ABUND: 105.1/ 4792.



10 HITS: REFERENCE FRN 14764 SCAN 214

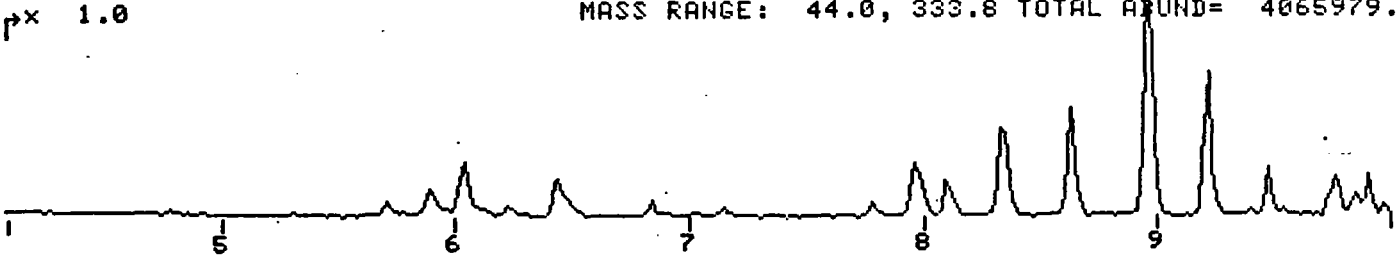


1 LFRN 3002 SPECT 2198 MW= 120 C9H12
.9809 Benzene, 1-ethyl-2-methyl- (9CI)

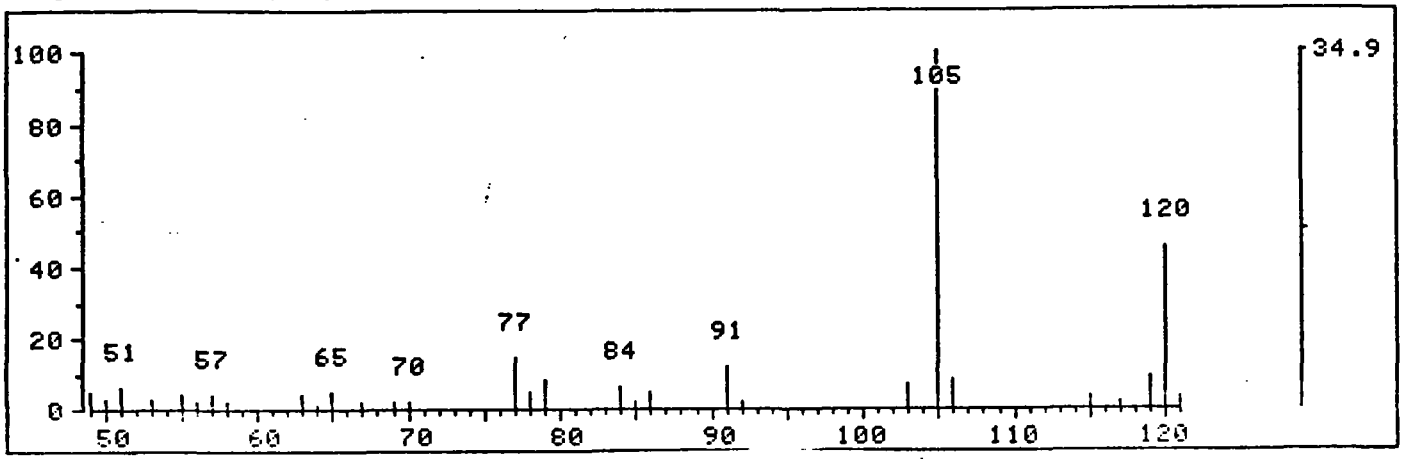
III 212

43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764

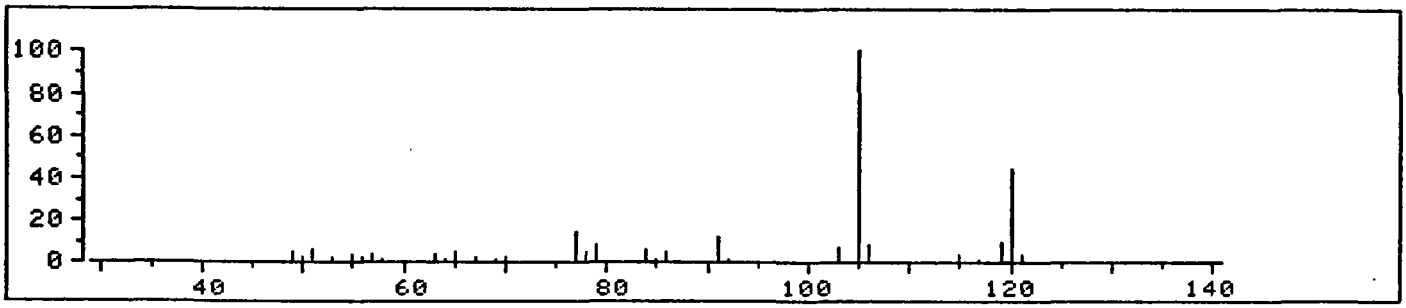
FRN 14764, DRN 10
D14764 1702 SCANS (326 SCANS, 5.92 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

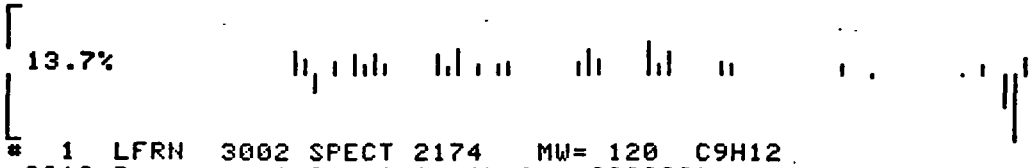


* 222 RET. TIME: 8.12 TOT ABUND= 7155. BASE PK/ABUND: 105.1/ 2495.

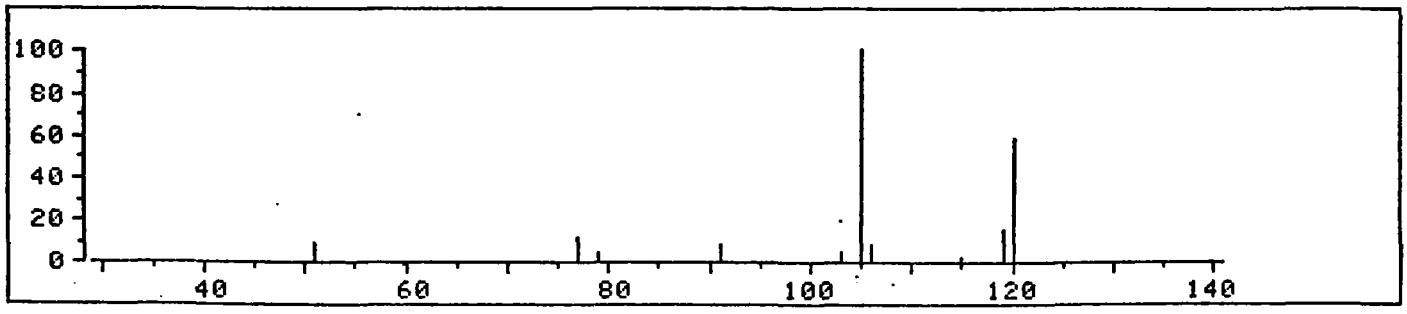


10 HITS: REFERENCE FRN 14764 SCAN 222





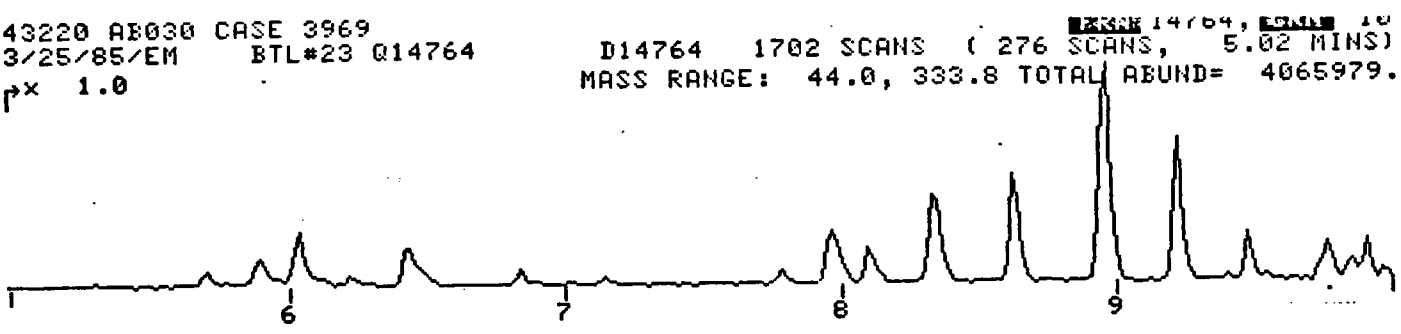
* 1 LFRN 3002 SPECT 2174 MW= 120 C9H12
.9810 Benzene, 1,2,4-trimethyl- (8CI9CI)



III 213

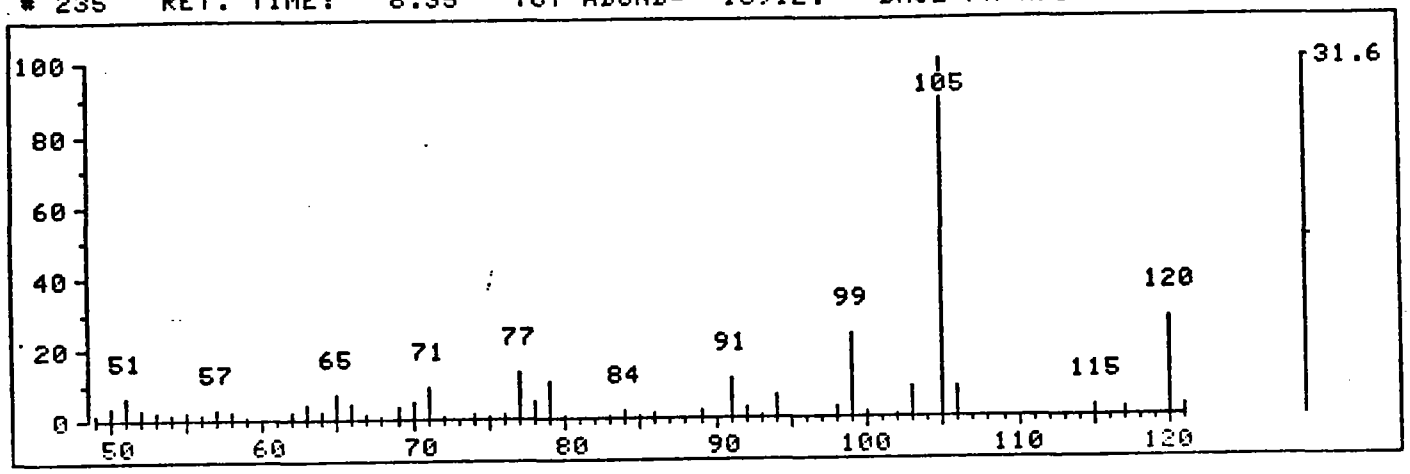
43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764

D14764 1702 SCANS (276 SCANS, 5.02 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

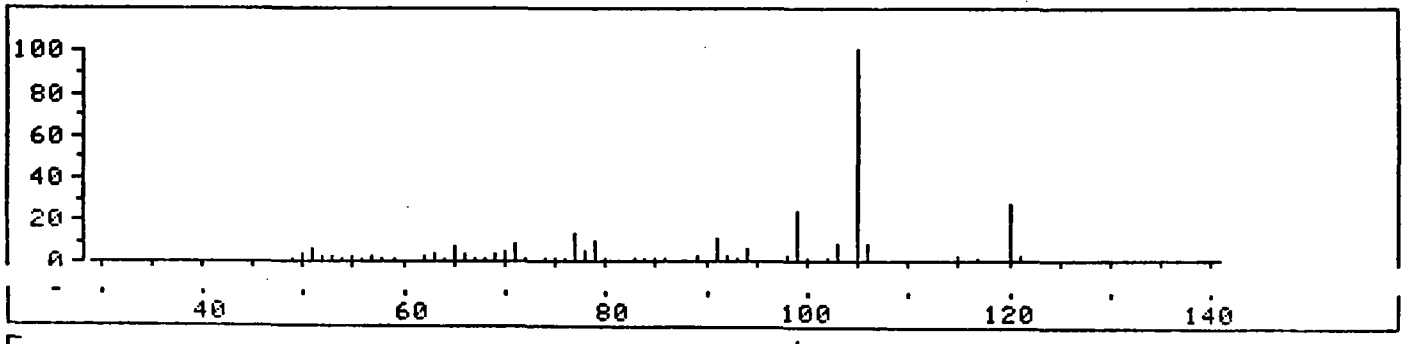


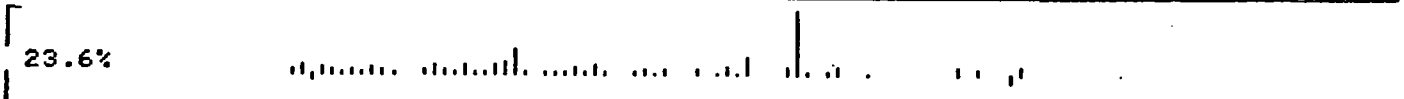
MINS

* 235 RET. TIME: 8.35 TOT ABUND= 18912. BASE PK/ABUND: 105.1/ 5967.

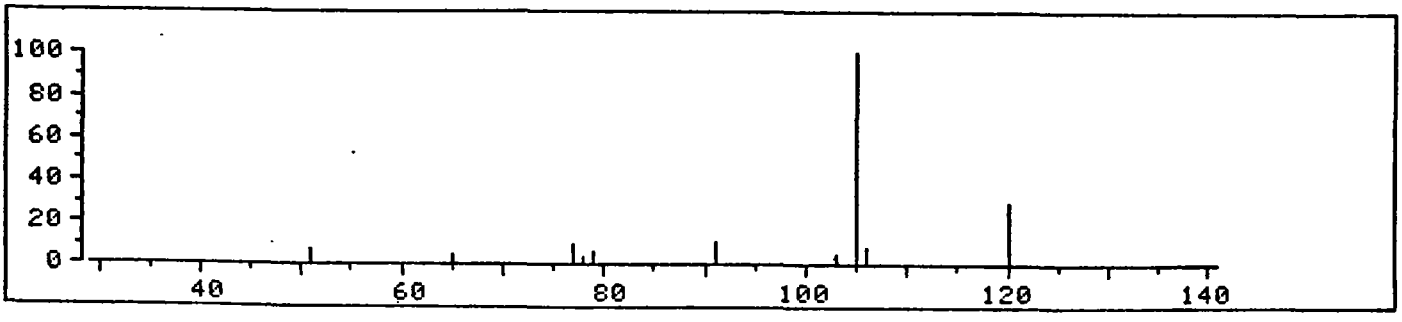


10 HITS: REFERENCE FRN 14764 SCAN 235



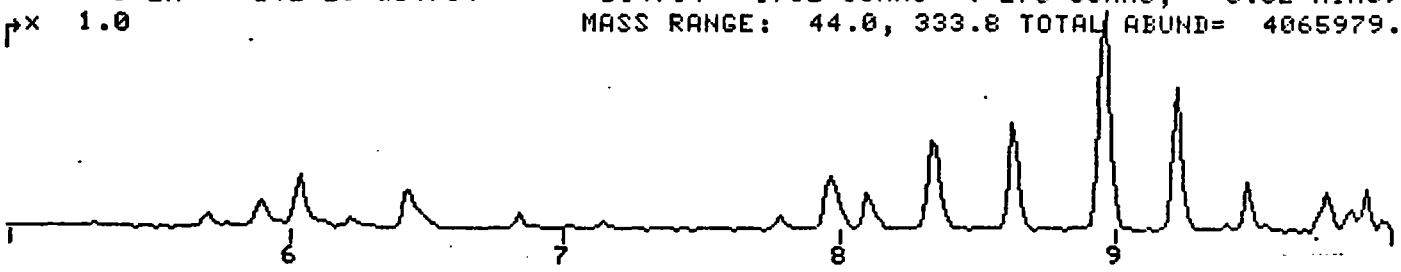


* 1 LFRN 3002 SPECT 2198 MW= 120 C9H12
.9808 Benzene, 1-ethyl-2-methyl- (9CI)



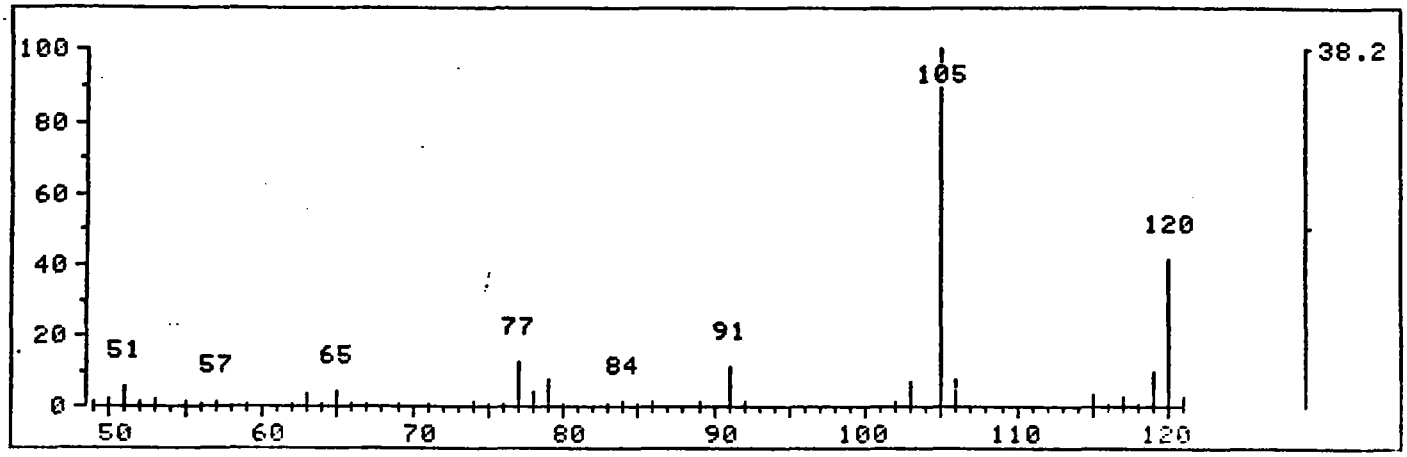
III 214

3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (276 SCANS, 5.02 MINS)
x 1.0 MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

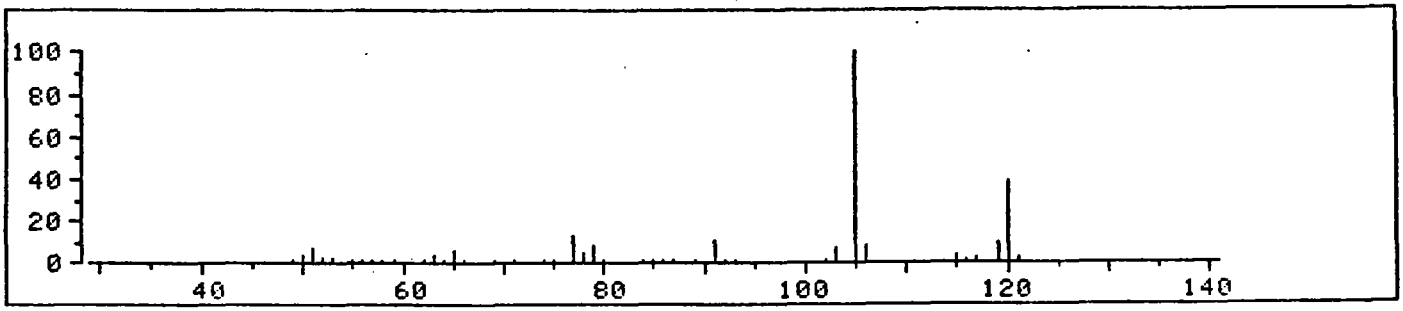


MINS

* 251 RET. TIME: 8.63 TOT ABUND= 18963. BASE PK/ABUND: 105.1/ 7252.

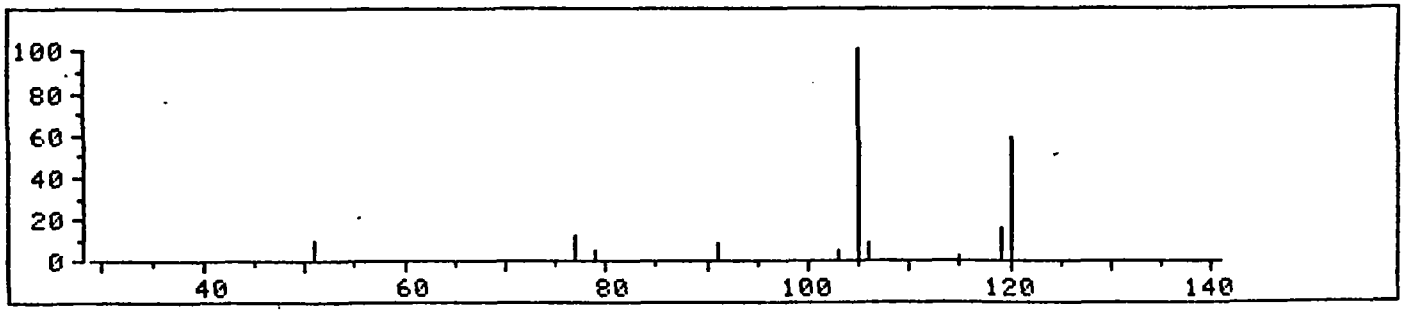


10 HITS: REFERENCE FRN 14764 SCAN 250



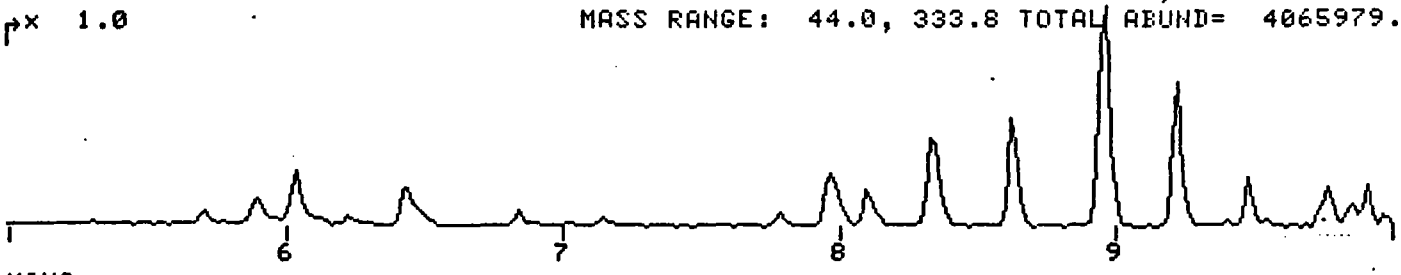
20.1%

* 1 LFRN 3002 SPECT 2174 MW= 120 C9H12
.9810 Benzene, 1,2,4-trimethyl- (8CI9CI)



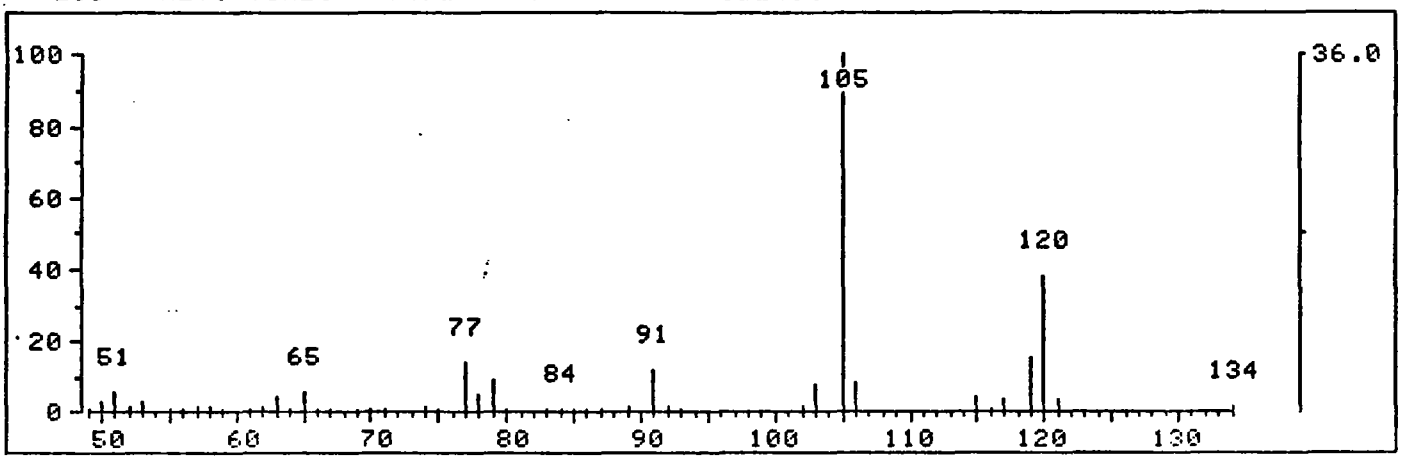
AF 215

43220 AB030 CASE 3969 FRN 14764, CRN 10
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (276 SCANS, 5.02 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

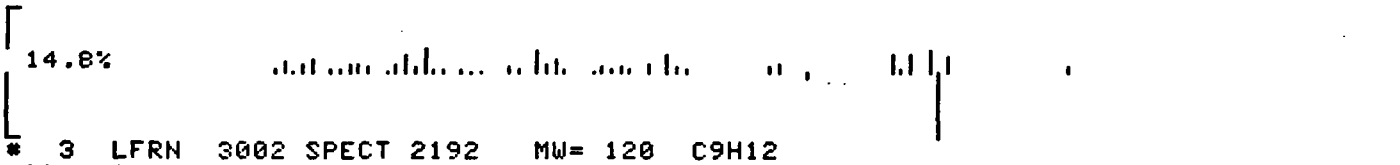


MINS

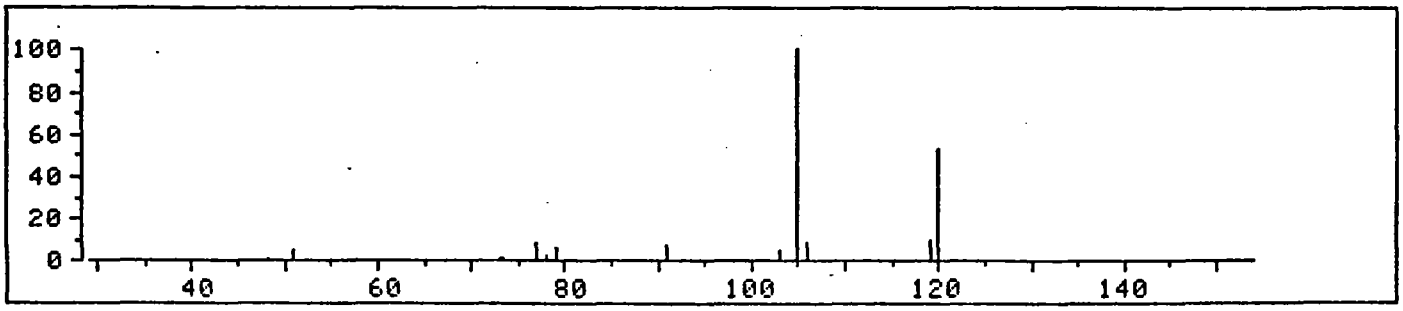
* 283 RET. TIME: 9.22 TOT ABUND= 32240. BASE PK/ABUND: 105.1/ 11616.



10 HITS: REFERENCE FRN 14764 SCAN 283

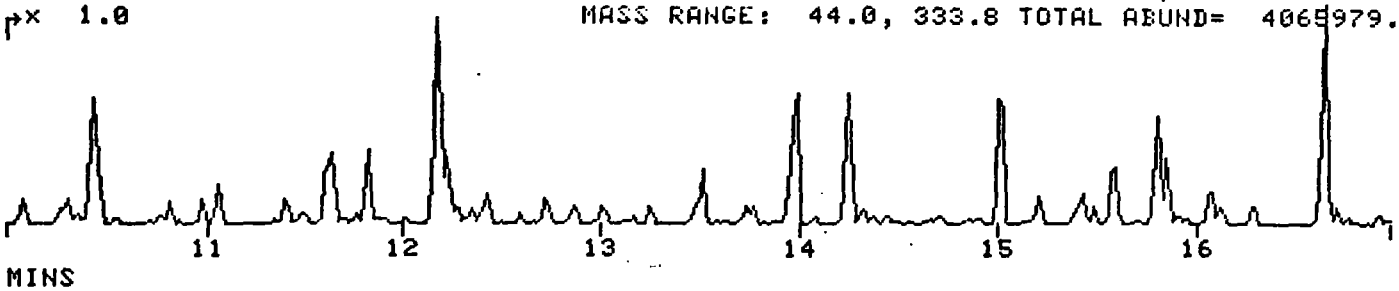


* 3 LFRN 3002 SPECT 2192 MW= 120 C9H12
.9810 Benzene, 1,2,3-trimethyl- (8CI9CI)



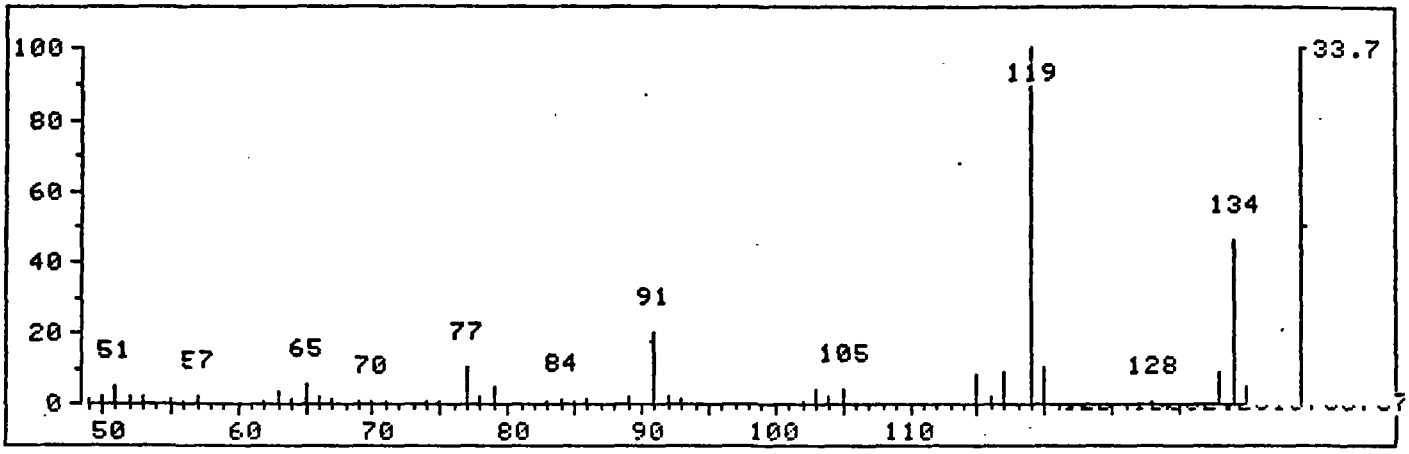
III 216

43220 AB030 CASE 3969
3/25/85/EM BTL#23 014764 D14764 1702 SCANS (384 SCANS, 7.02 MINS)
FRN 14764, GRN 10
px 1.0 MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

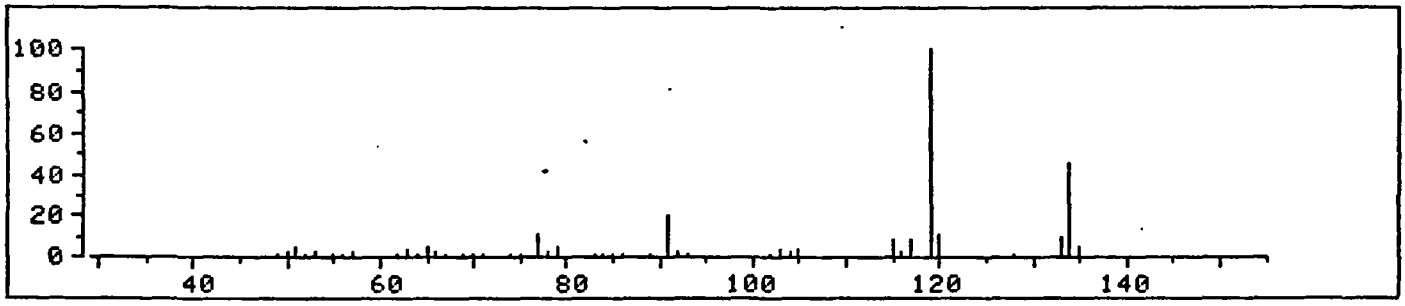


MINS

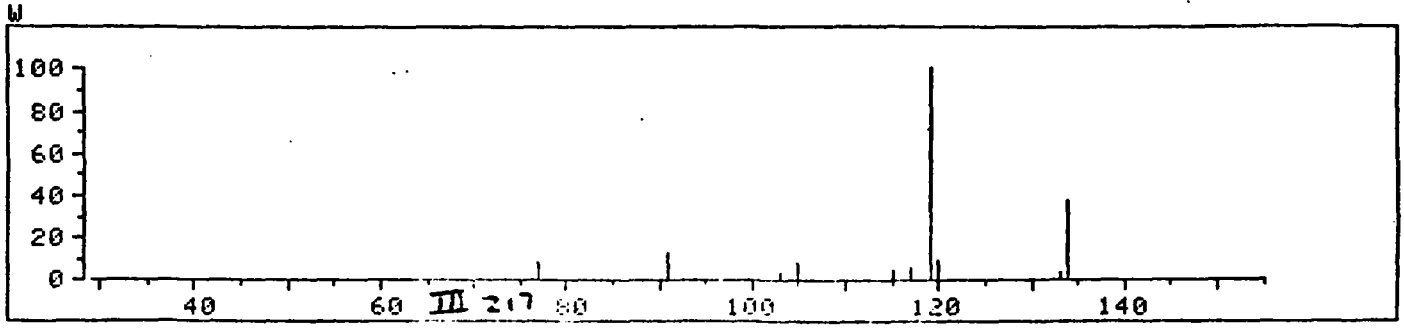
* 384 RET. TIME: 11.07 TOT ABUND= 15478. BASE PK/ABUND: 119.2/ 5212.



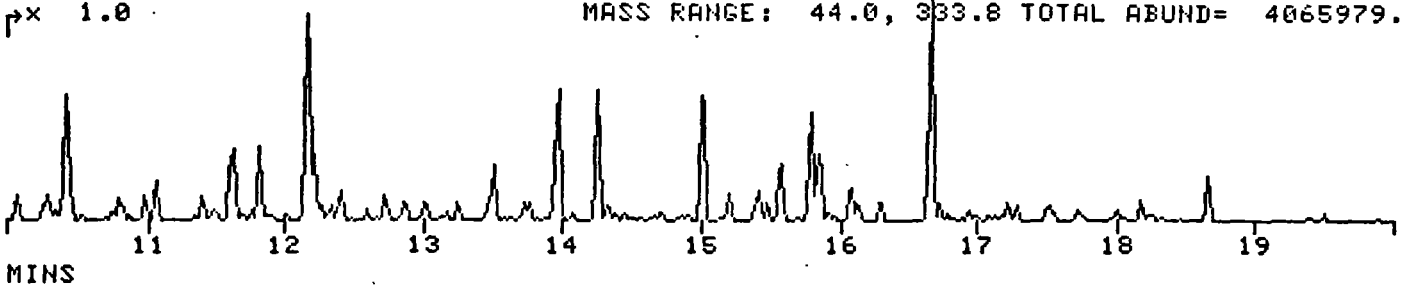
10 HITS: REFERENCE FRN 14764 SCAN 384



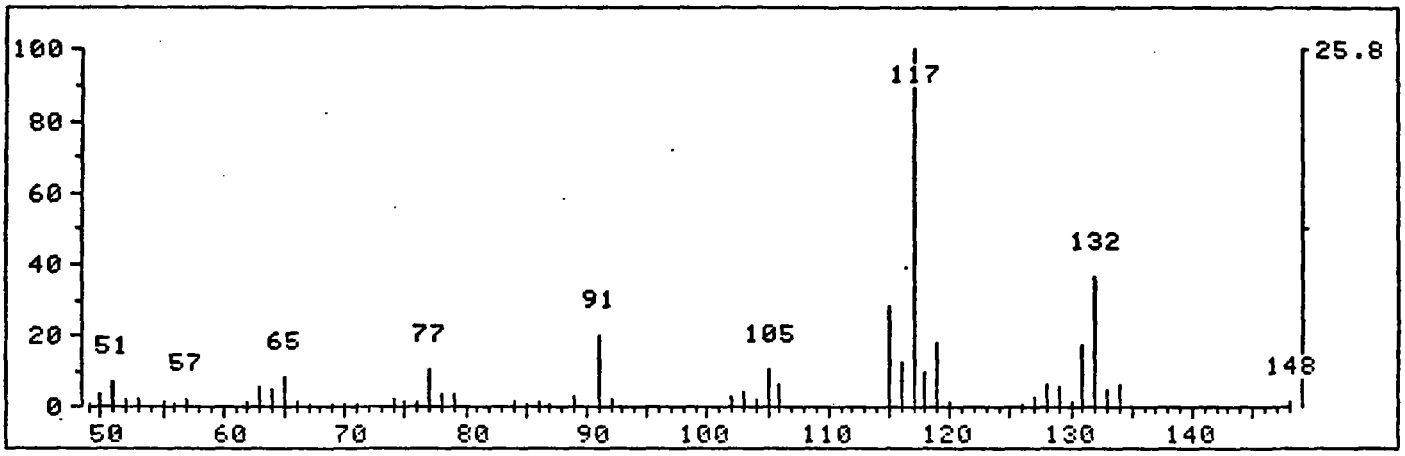
\# 1 LFRN 3002 SPECT 3375 MW= 134 C10H14
.9811 Benzene, 1-ethyl-3,5-dimethyl- (9CI)



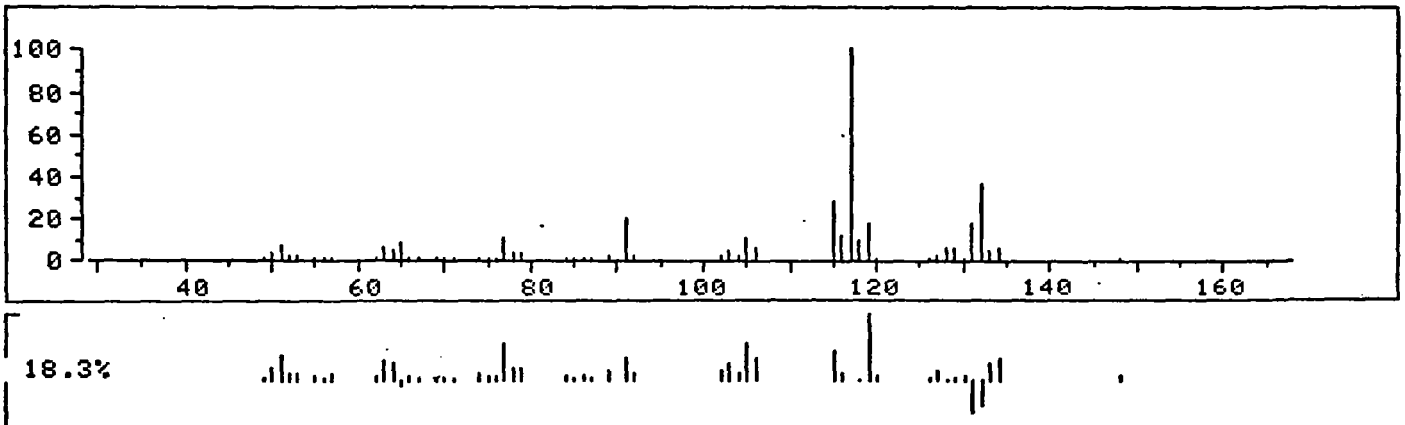
43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (549 SCANS, 10.02 MINS)
FRN 14764, GRN 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.



* 414 RET. TIME: 11.62 TOT ABUND= 24196. BASE PK/ABUND: 117.1/ 6231.



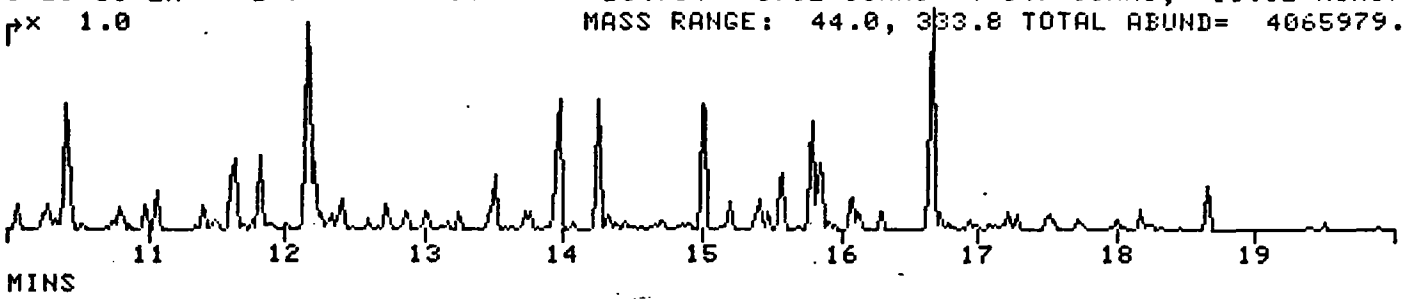
10 HITS: REFERENCE FRN 14764 SCAN 414



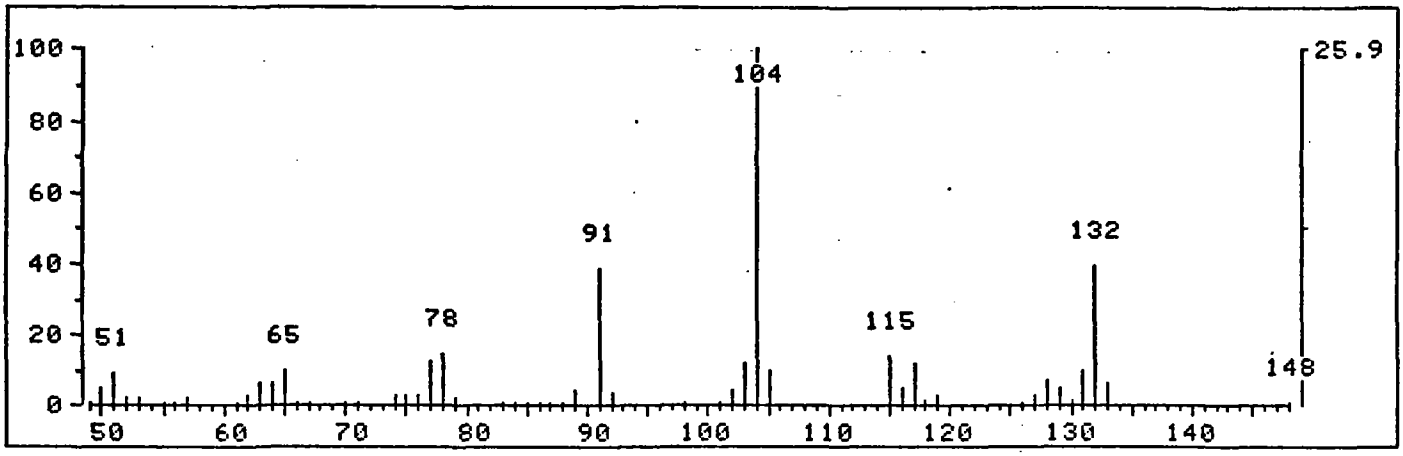
* 4 LFRN 3002 SPECT 3206 MW= 132 C10H12
.9809 1H-Indene, 2,3-dihydro-5-methyl- (9CI)

III 218

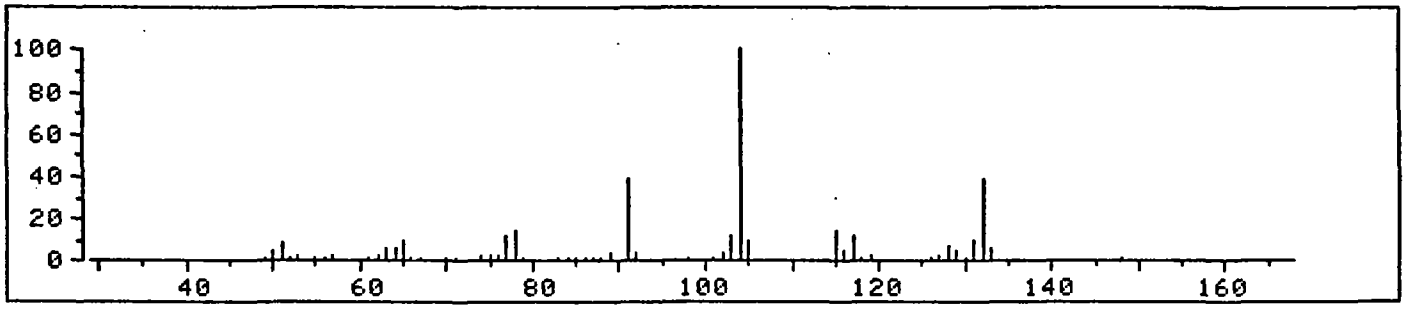
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (549 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

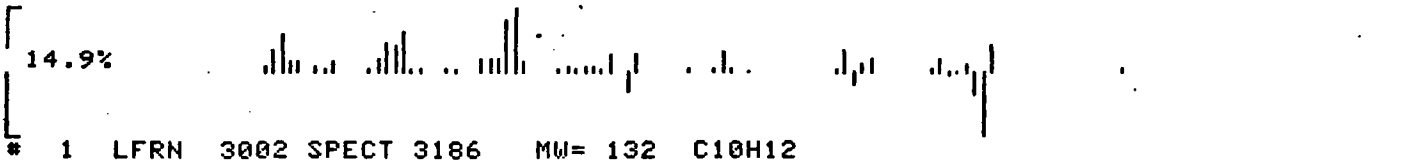


* 425 RET. TIME: 11.82 TOT ABUND= 28852. BASE PK/ABUND: 104.1/ 7471.

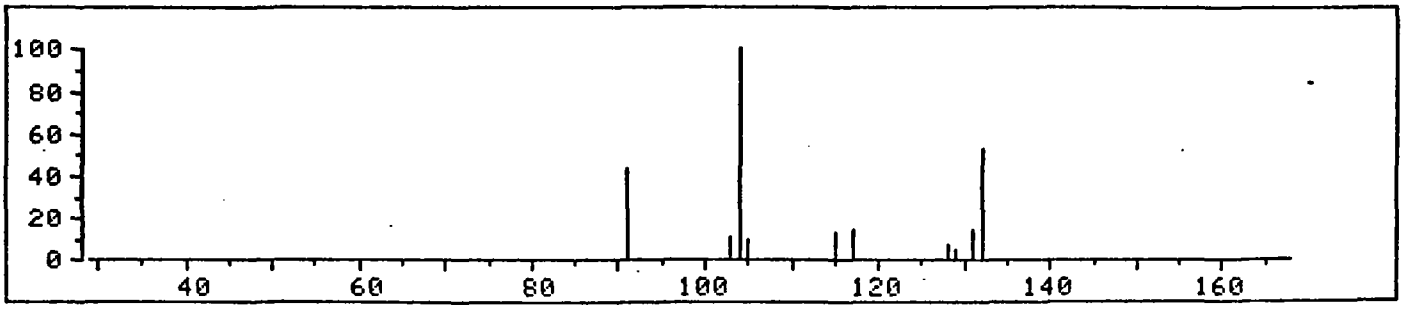


10 HITS: REFERENCE FRN 14764 SCAN 425



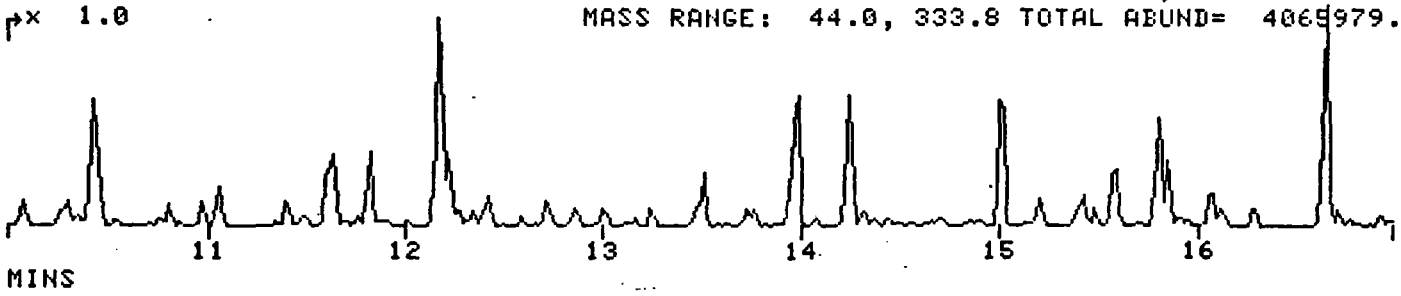


* 1 LFRN 3002 SPECT 3186 MW= 132 C10H12
.9811 Naphthalene, 1,2,3,4-tetrahydro- (8CI9CI)

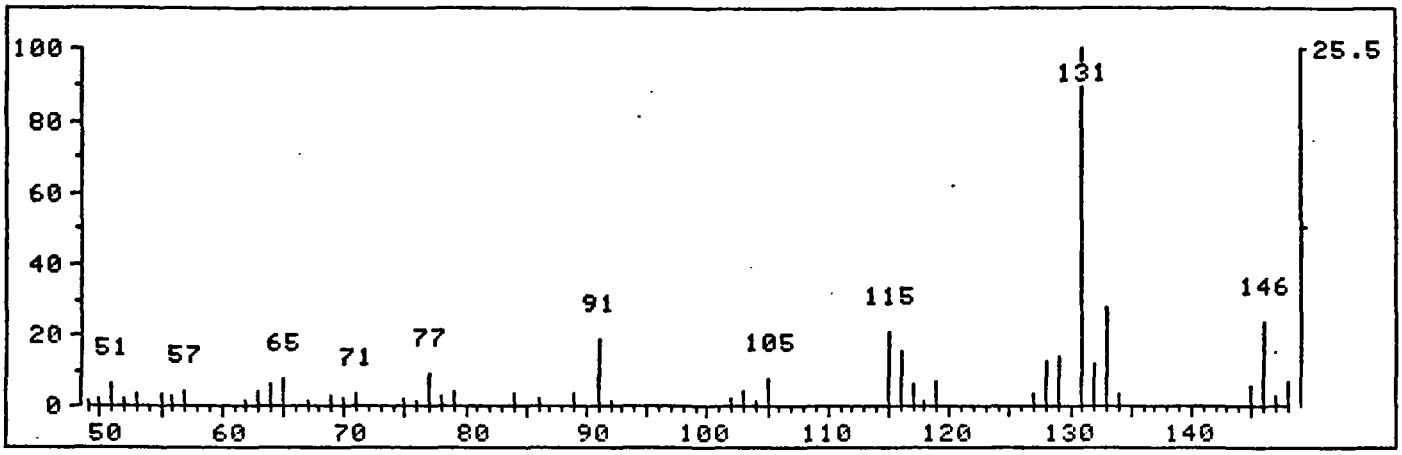


III 219

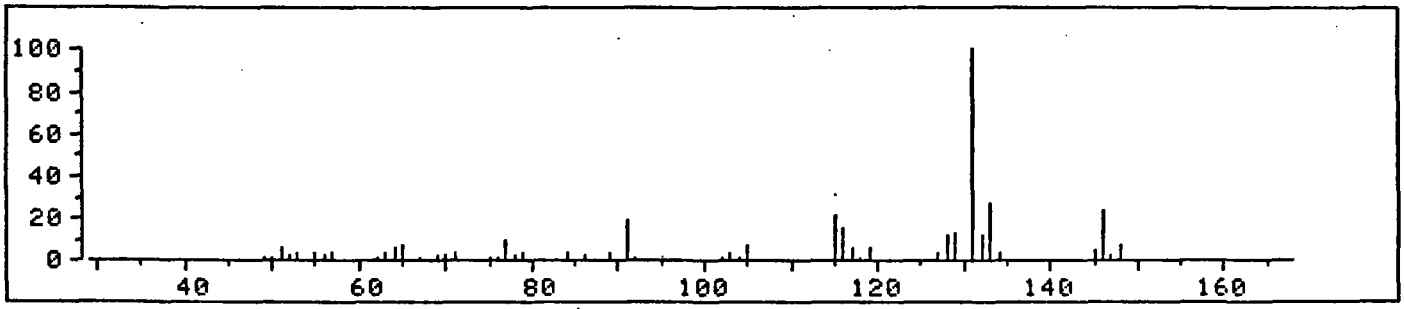
43220 HB030 CHSE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (384 SCANS, 7.02 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4069979.



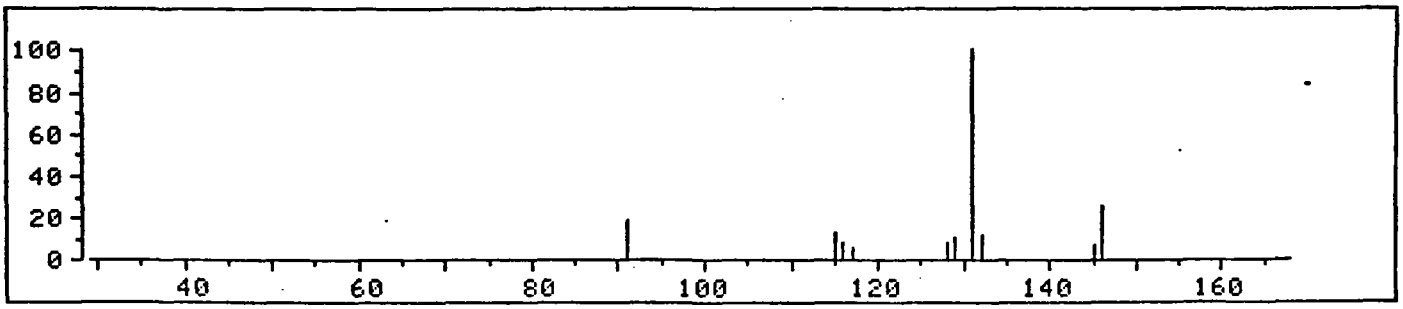
458 RET. TIME: 12.42 TOT ABUND= 11617. BASE PK/ABUND: 131.1/ 2959.



10 HITS: REFERENCE FRN 14764 SCAN 458



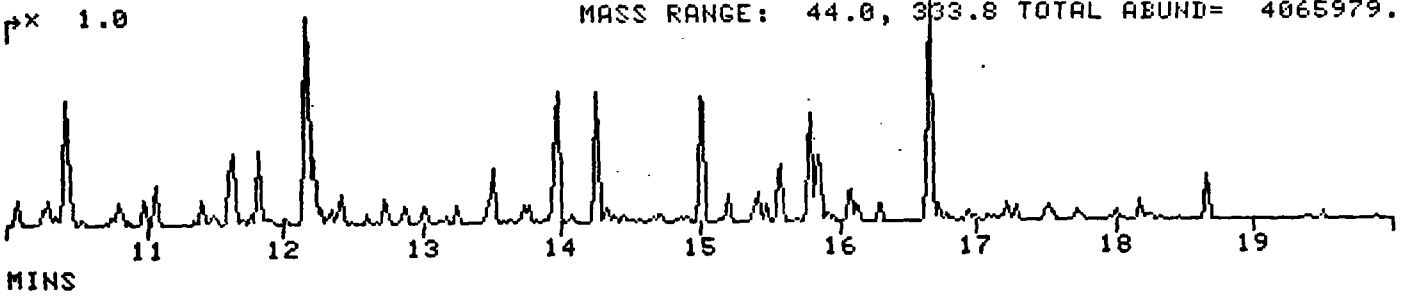
1 LFRN 3002 SPECT 4657 MW= 146 C11H14
.9809 1H-Indene, 2,3-dihydro-1,3-dimethyl- (9CI)



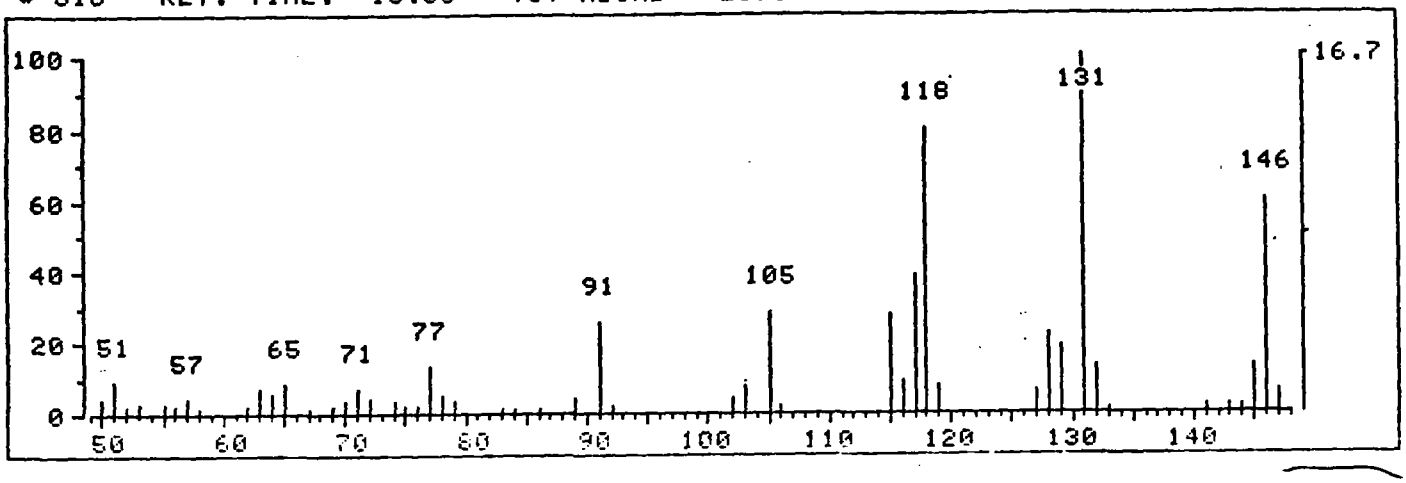
III 220

43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764

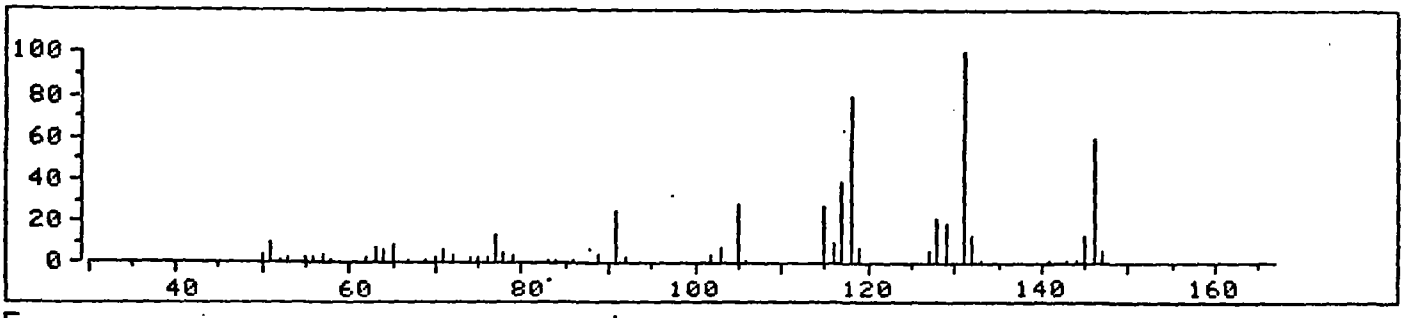
FRN 14764, CRN 10
D14764 1702 SCANS (549 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

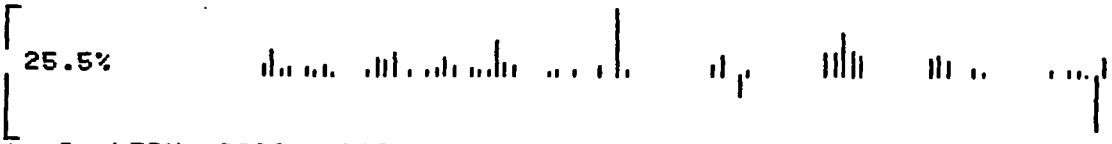


* 518 RET. TIME: 13.50 TOT ABUND= 21305. BASE PK/ABUND: 131.1/ 3558.

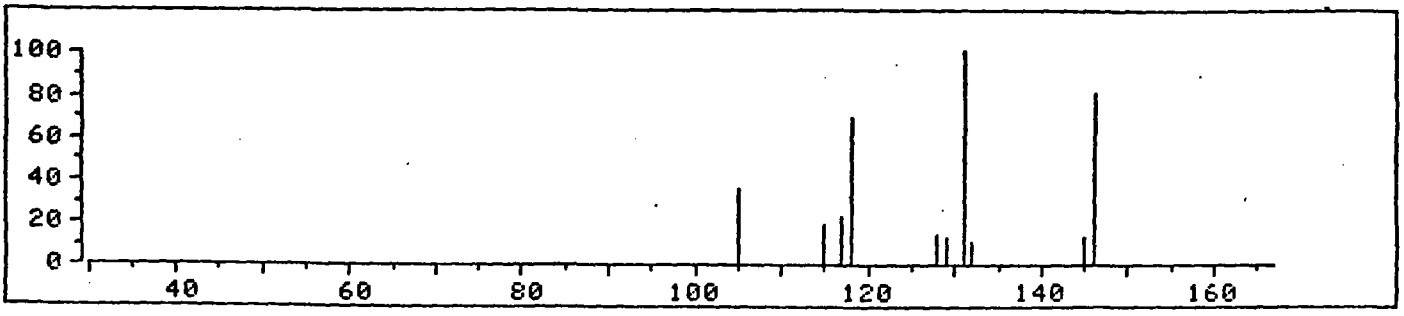


10 HITS: REFERENCE FRN 14764 SCAN 518



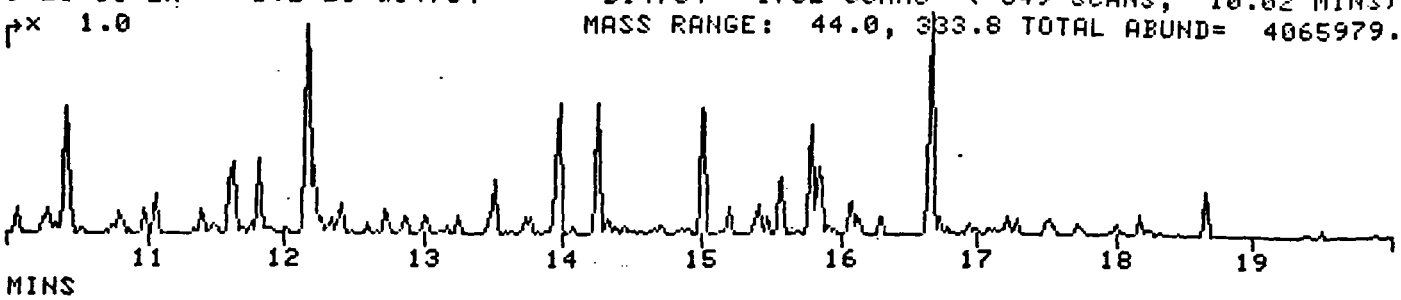


* 2 LFRN 3002 SPECT 4646 MW= 146 C11H14
.9813 Naphthalene, 1,2,3,4-tetrahydro-5-methyl- (8CI9CI)

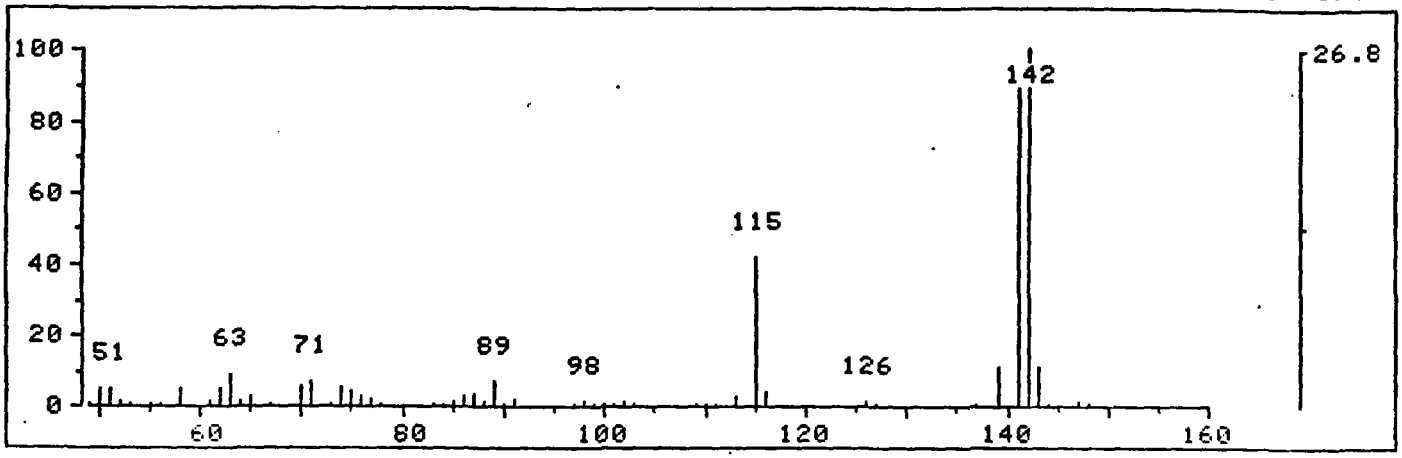


II 221

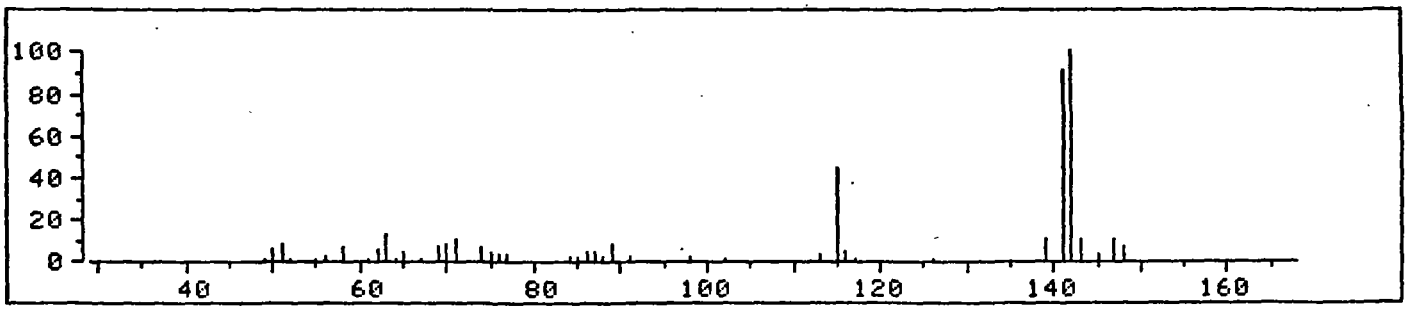
43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (549 SCANS, 10.02 MINS)
FRN 14764, CRN 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

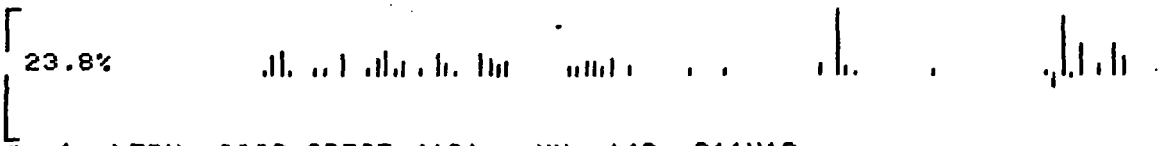


558 RET. TIME: 14.23 TOT ABUND= 50262. BASE PK/ABUND: 142.1/ 13482.

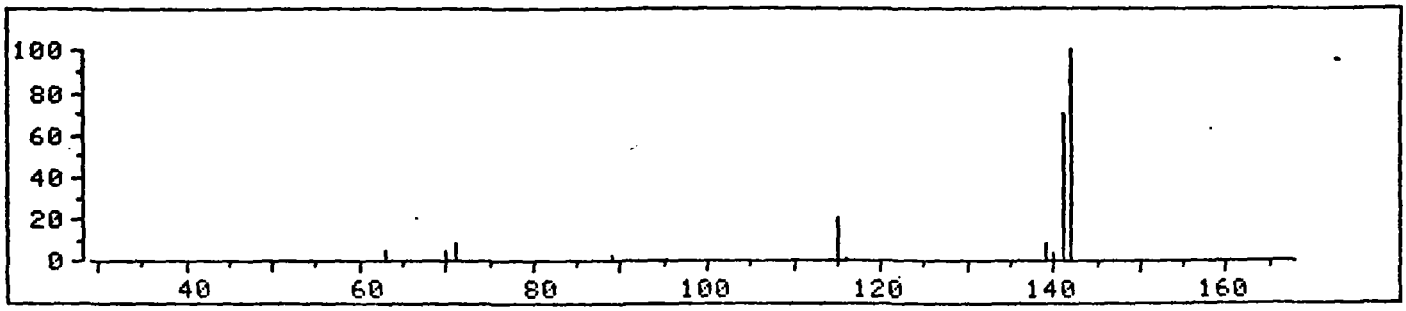


10 HITS: REFERENCE FRN 14764 SCAN 557





1 LFRN 3002 SPECT 4131 MW= 142 C11H10
.9786 Naphthalene, 2-methyl- (8CI9CI)

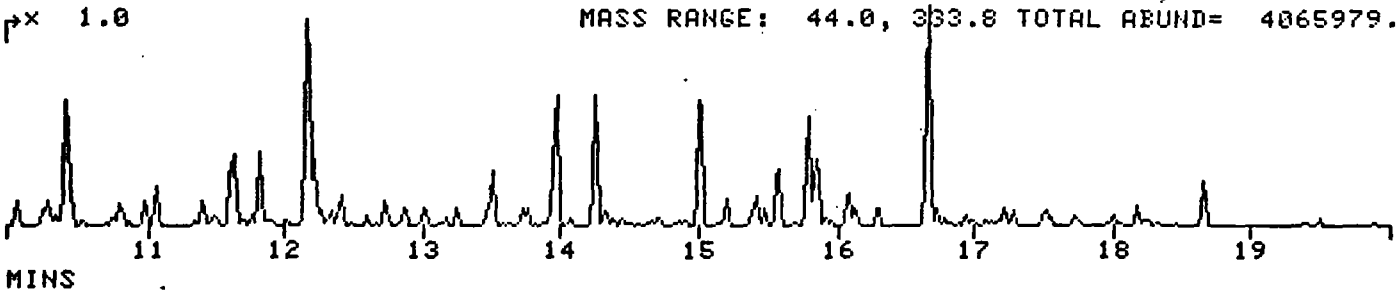


III 222

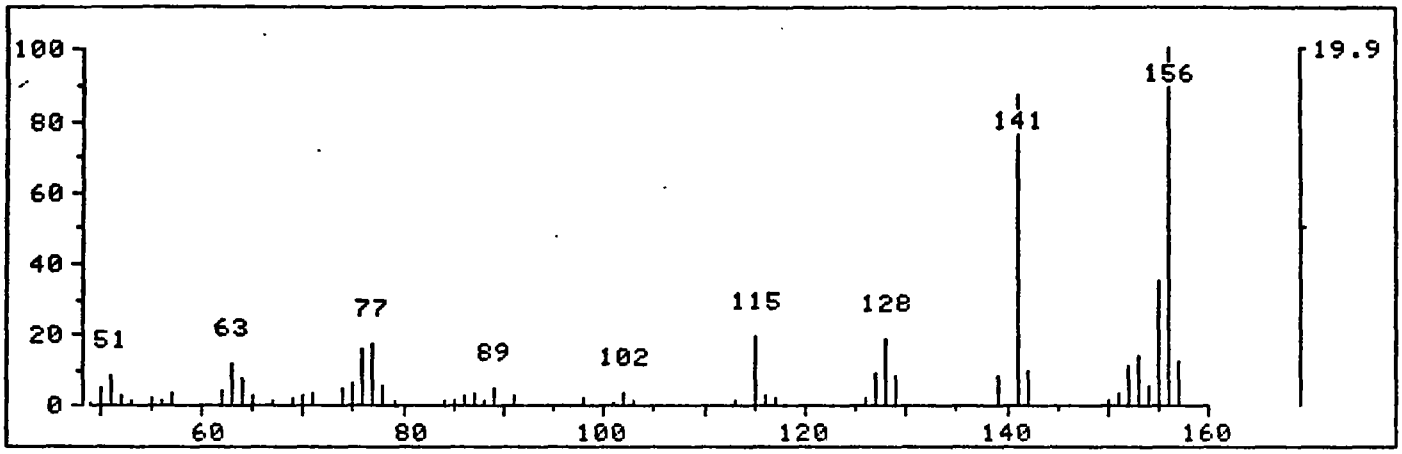
FRN 14764, CRN 10

3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (549 SCANS, 10.02 MINS)

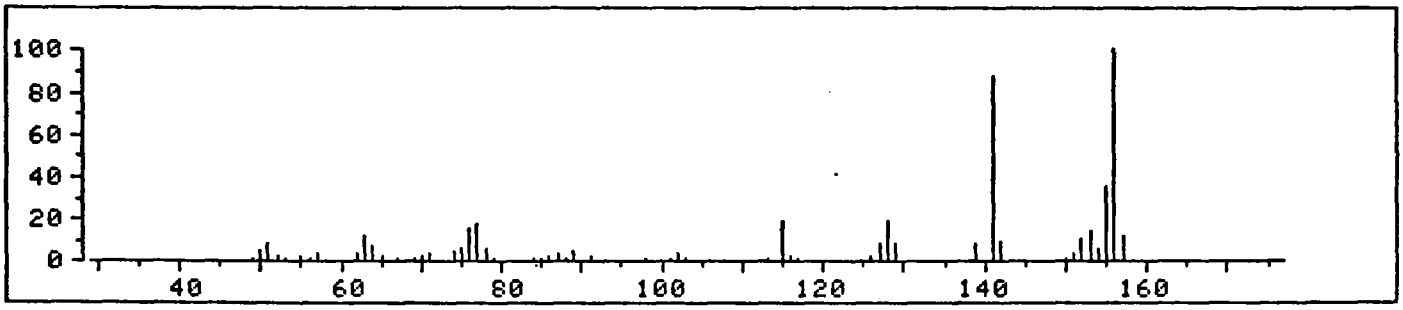
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.



* 631 RET. TIME: 15.57 TOT ABUND= 20402. BASE PK/ABUND: 156.1/ 4051.

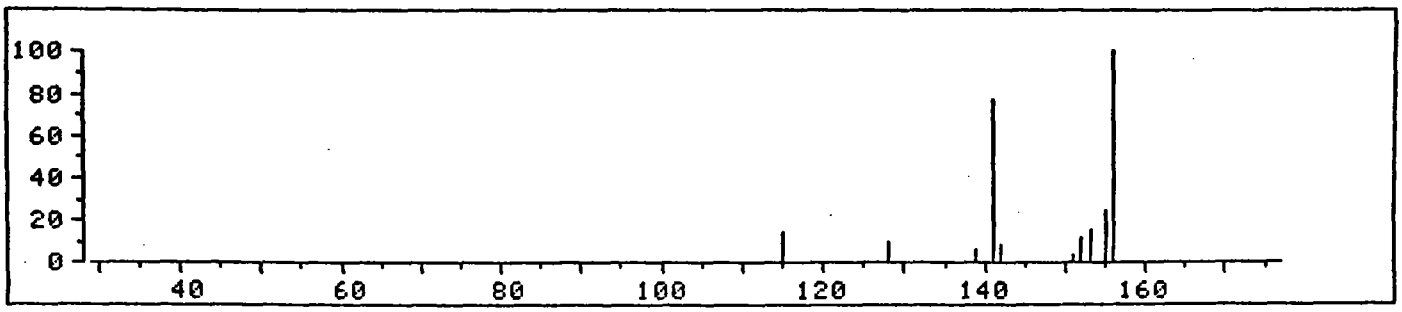


10 HITS: REFERENCE FRN 14764 SCAN 631



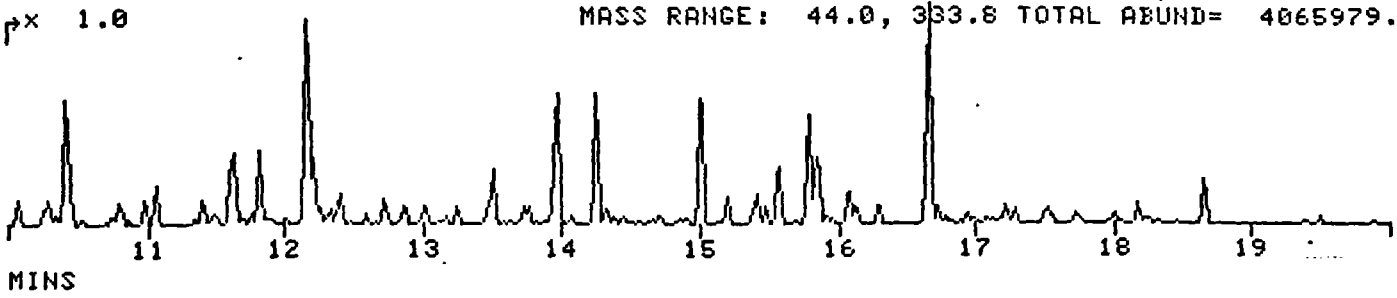
* 1 LFRN 3005 SPECT 25 MW= 156 C12H12

.9812 Naphthalene, 1,8-dimethyl- (8CI9CI)

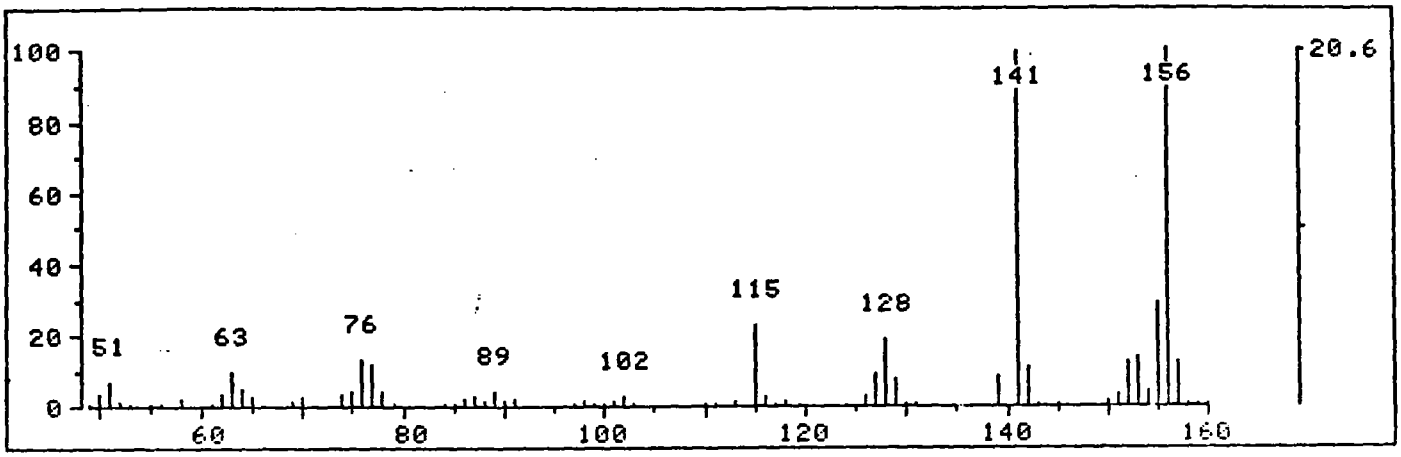


III 223

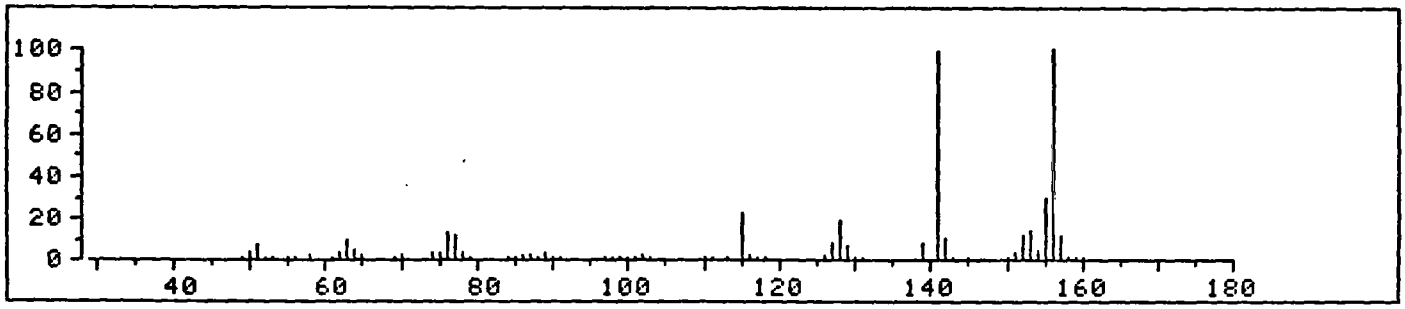
B14764 1702 SCANS (549 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.

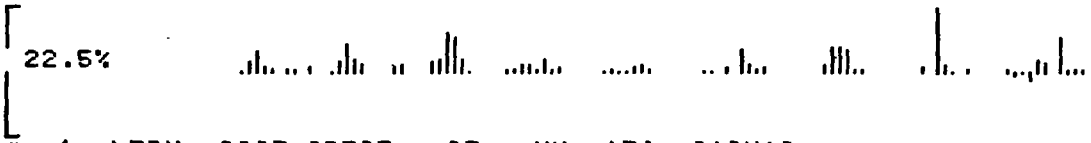


644 RET. TIME: 15.80 TOT ABUND= 42151. BASE PK/ABUND: 156.1/ 8671.

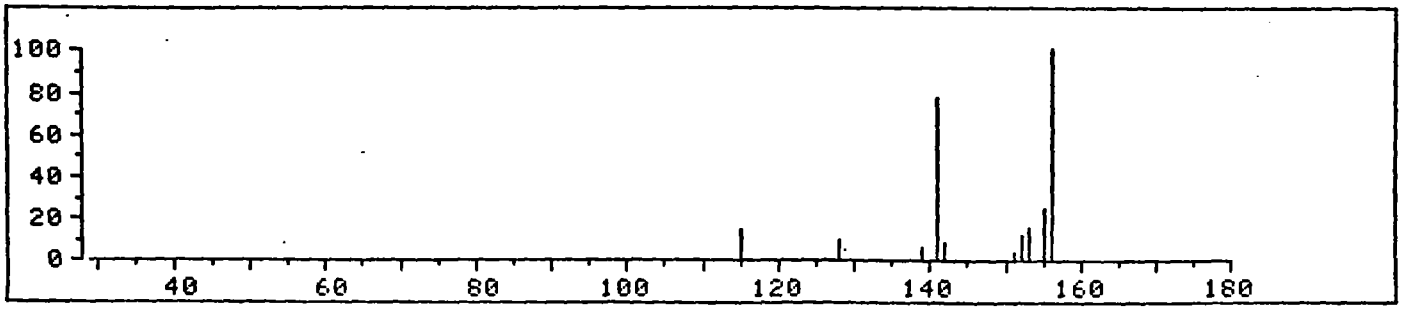


10 HITS: REFERENCE FRN 14764 SCAN 644



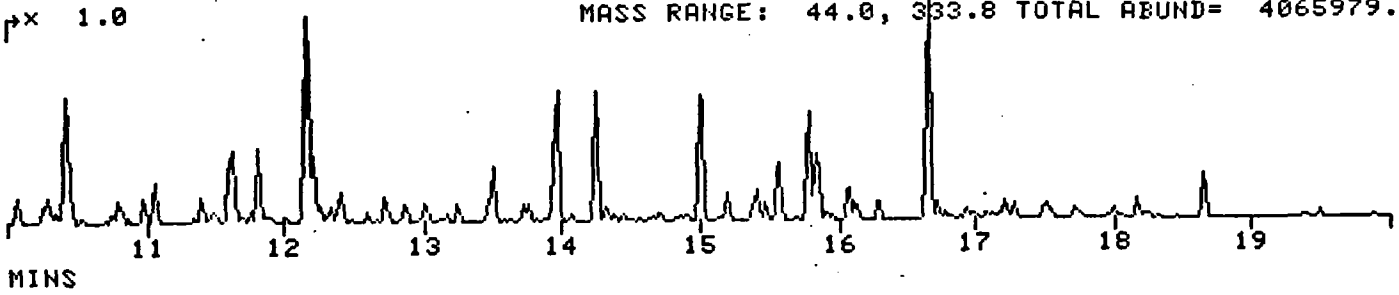


1 LFRN 3005 SPECT 25 MW= 156 C12H12
.9812 Naphthalene, 1,8-dimethyl- (8CI9CI)

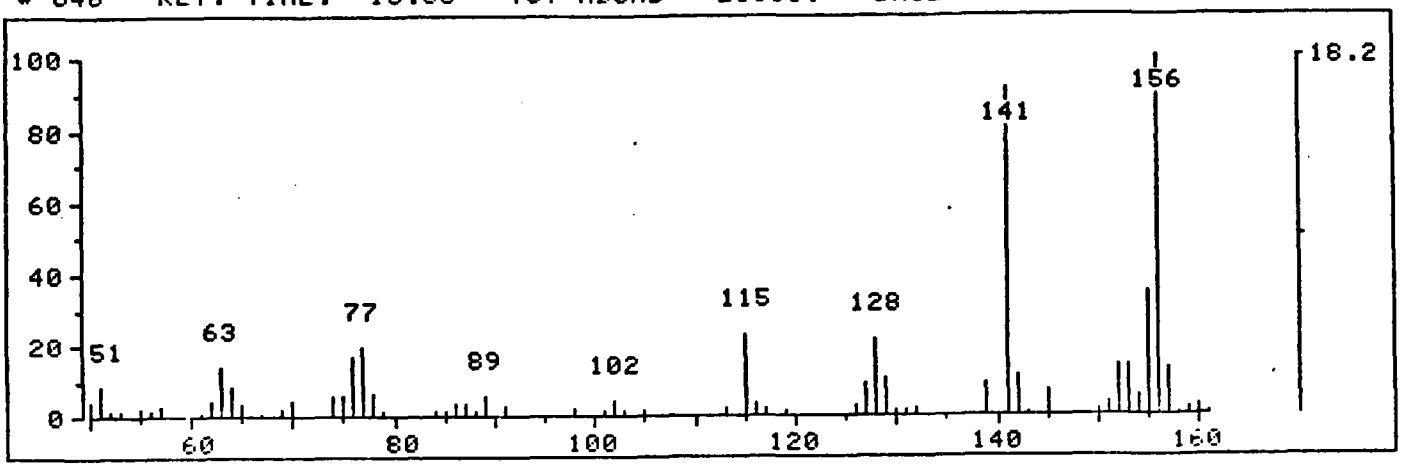


III 224

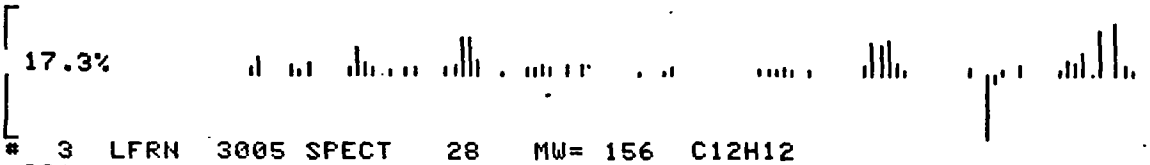
3/25/85/FN BIL#23 U14764 U14764 1702 SCANS (549 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.



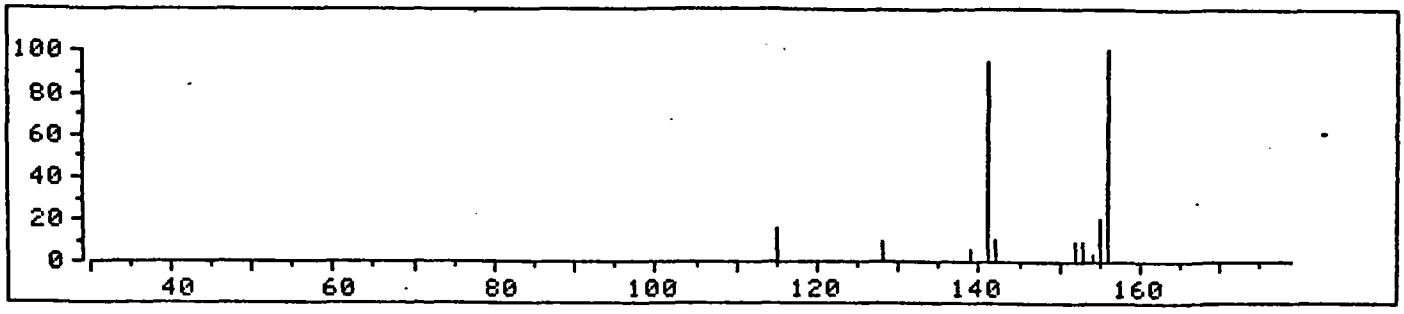
* 646 RET. TIME: 15.85 TOT ABUND= 26315. BASE PK/ABUND: 156.1/ 4779.



10 HITS: REFERENCE FRN 14764 SCAN 647

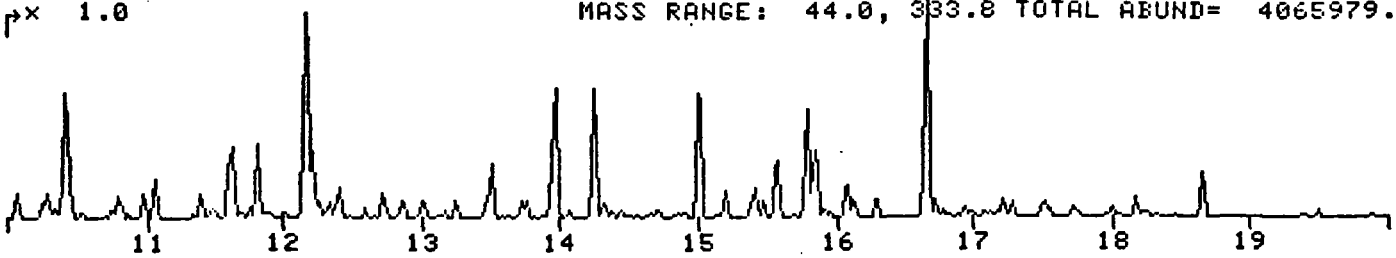


\# 3 LFRN 3005 SPECT 28 MW= 156 C12H12
.9812 Naphthalene, 1,2-dimethyl- (8CI9CI)

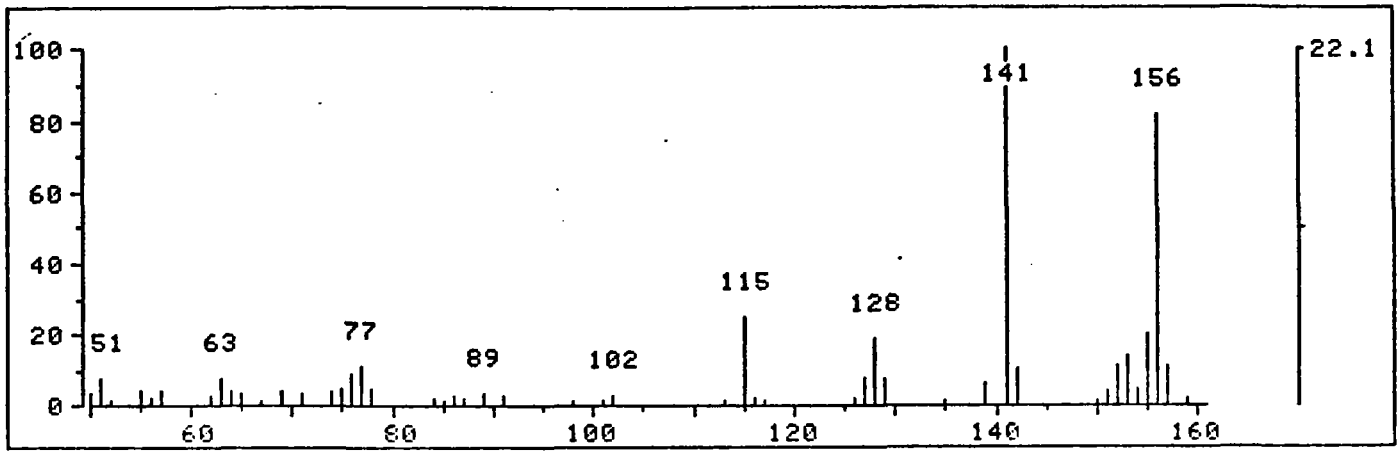


III 225

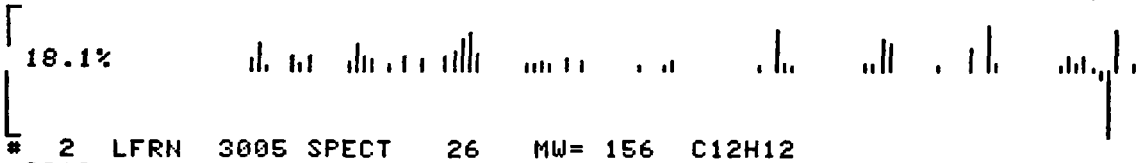
43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (549 SCANS, 10.02 MINS)
FRN 14764, CRN 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4065979.



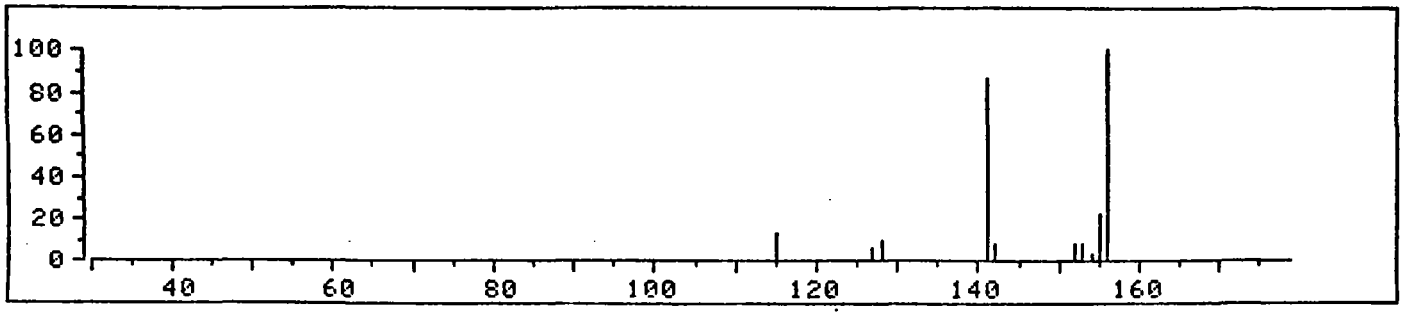
659 RET. TIME: 16.08 TOT ABUND= 12910. BASE PK/ABUND: 141.1/ 2849.



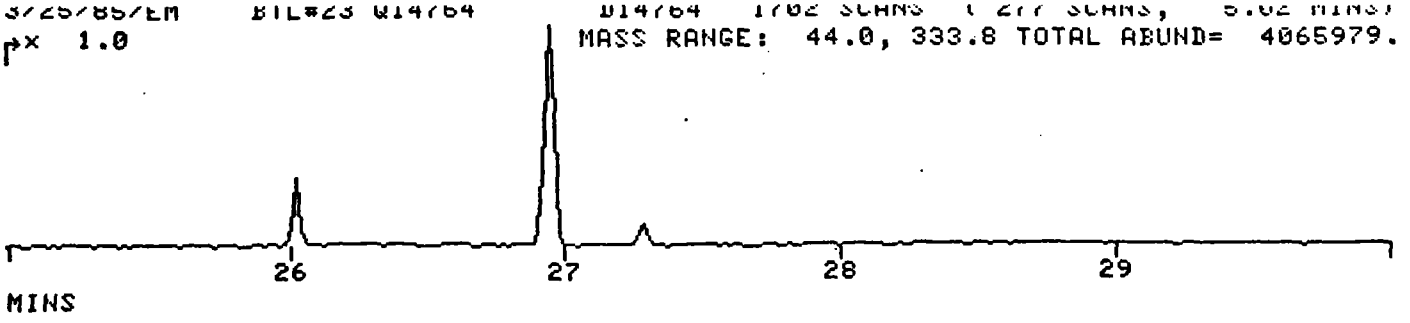
10 HITS: REFERENCE FRN 14764 SCAN 659



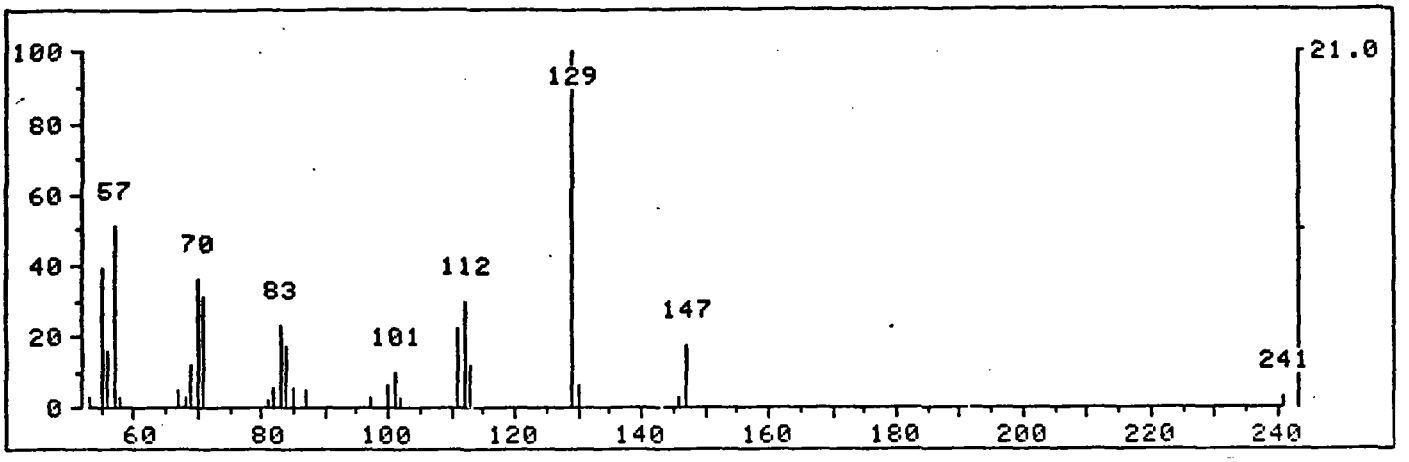
2 LFRN 3005 SPECT 26 MW= 156 C12H12
.9813 Naphthalene, 1,4-dimethyl- (8CI9CI)

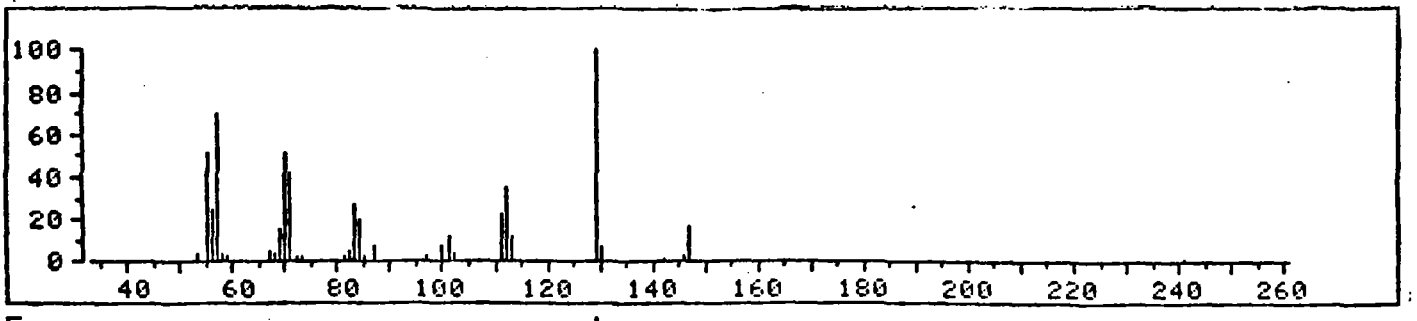


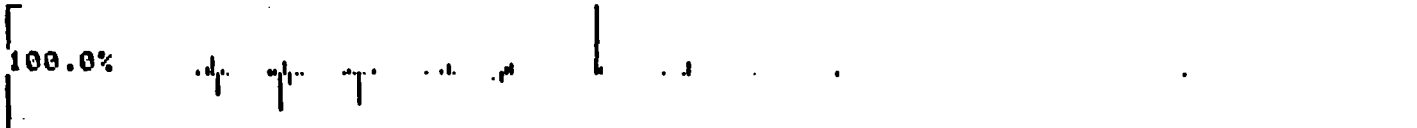
3/25/85/EM BIL#23 B14764 B14764 1702 SCANS (277 SCANS), 5.62 MINS)



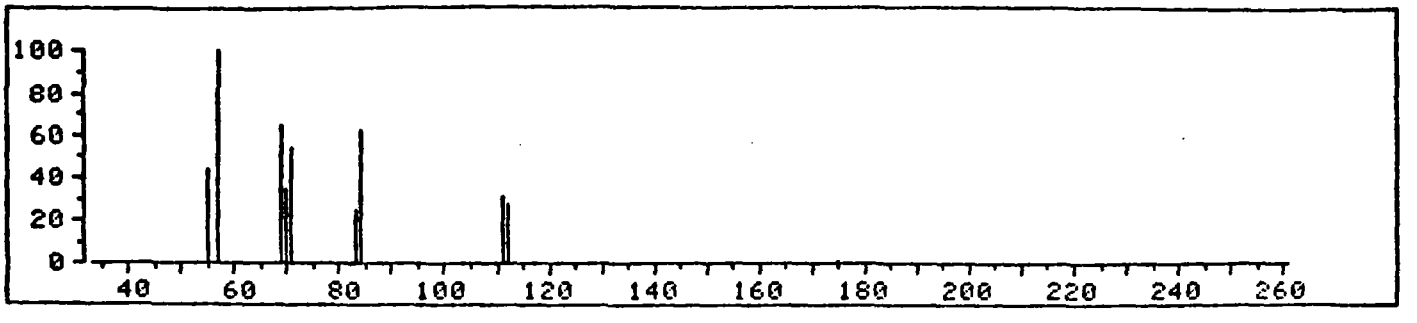
#1207 RET. TIME: 26.03 TOT ABUND= 8885. BASE PK/ABUND: 129.1/ 1862.





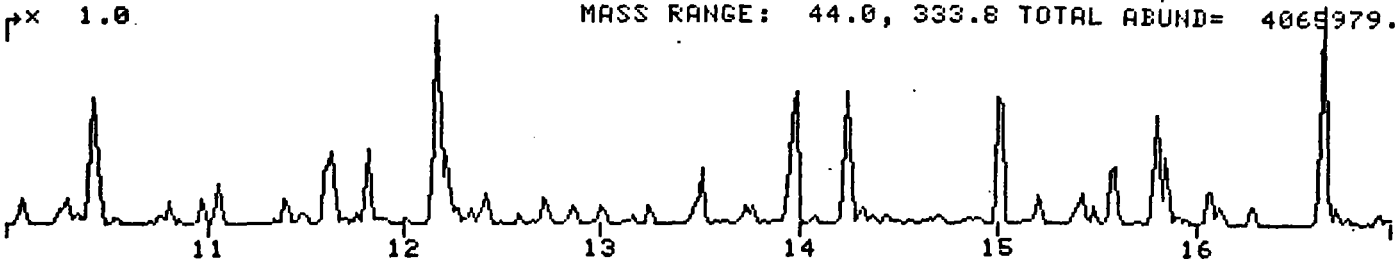


* 9 LFRN 3005 SPECT 2088 MW= 174 C10H2202
.8627 Ethanol, 2-(octyloxy)- (8CI9CI)

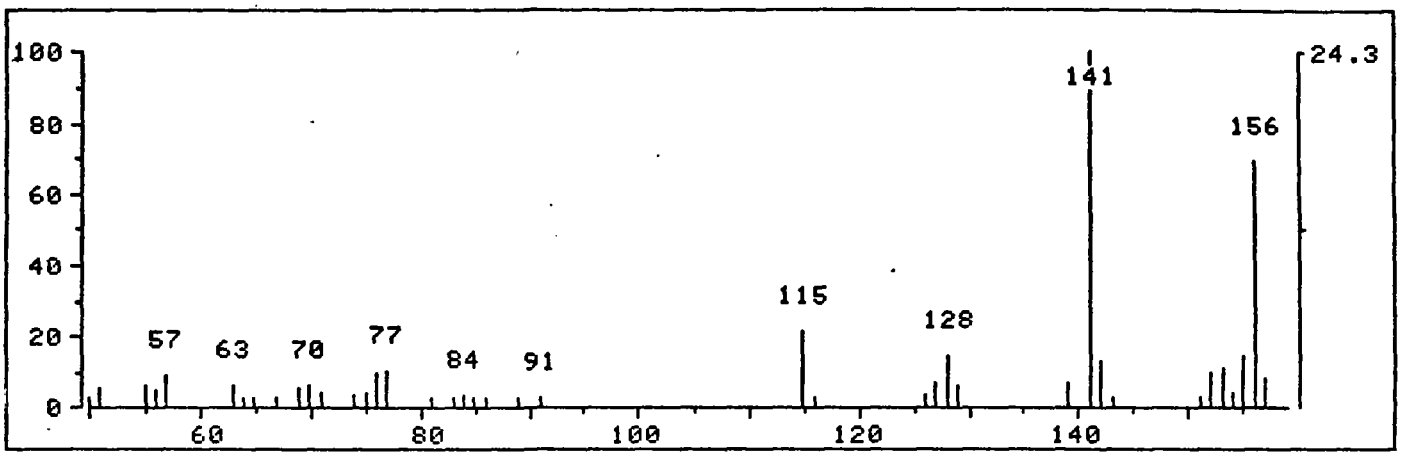


III
227

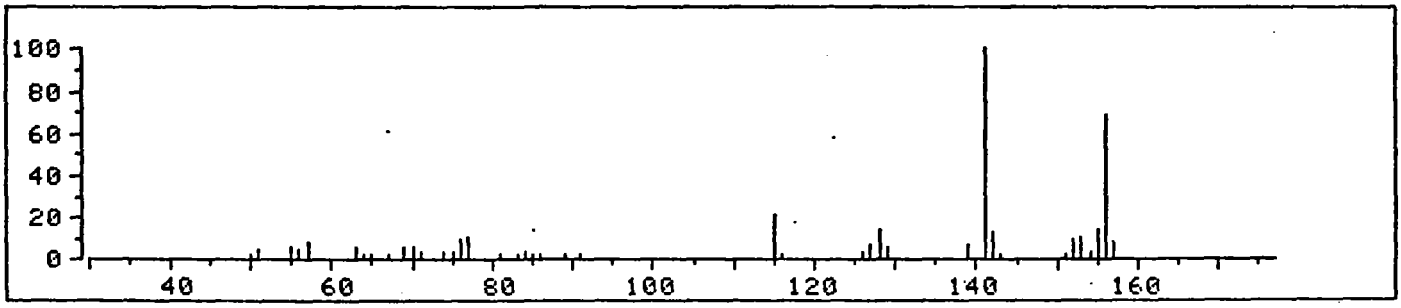
43220 AB030 CASE 3969
3/25/85/EM BTL#23 Q14764 D14764 1702 SCANS (384 SCANS, 7.02 MINS)
FRN 14764, CRN: 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 4069979.

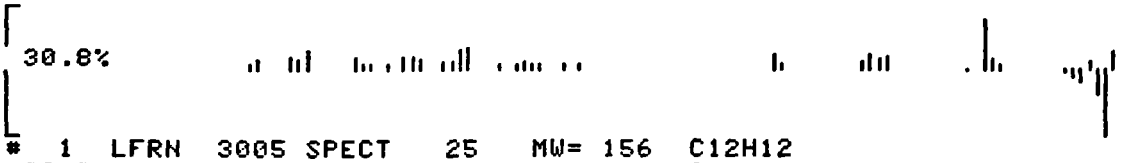


* 671 RET. TIME: 16.30 TOT ABUND= 7272. BASE PK/ABUND: 141.1/ 1764.

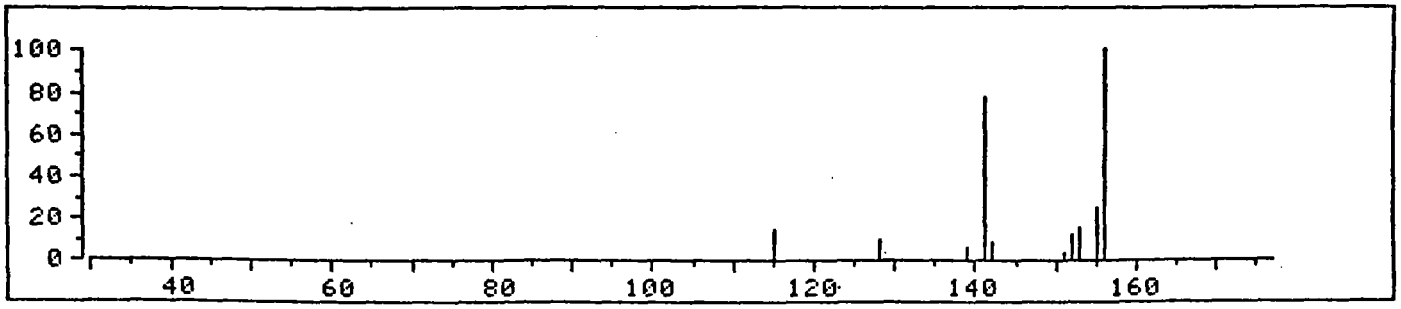


10 HITS: REFERENCE FRN 14764 SCAN 671





* 1 LFRN 3005 SPECT 25 MW= 156 C12H12
.9813 Naphthalene, 1,8-dimethyl- (8CI9CI)



II 228

AREA TABLE ENTRIES: FRN 14764

Entry	Time	Mass	Area	%
1	9.0	149.7	27229.	100.0
2	5.9	TI	17670.	64.9 — 52
3	6.4	TI	29042.	106.7 — 85
4	8.0	TI	38172.	140.2 — 112 — 110
5	8.1	TI	19778.	72.6 — 58
6	8.4	TI	54261.	199.3 — 159 — 160
7	8.6	TI	51495.	189.1 — 150
8	9.2	TI	66207.	243.1 — 50 EM 190
~~9~~	~~10.1~~	~~TI~~	~~17096.~~	~~62.8 — 50~~ EM

CALCULATE % ON ENTRY #:

AREA TABLE ENTRIES: FRN 14764

Entry	Time	Mass	Area	%
1	9.0	149.7	27229.	100.0
2	11.1	TI	28077.	103.1 — 82

CALCULATE % ON ENTRY #:

AREA TABLE ENTRIES: FRN 14764

Entry	Time	Mass	Area	%
1	12.1	67.7	5161.	100.0
2	11.6	TI	79086.	1532.5 — 1200
3	11.8	TI	52909.	1025.3 — 820
4	12.4	TI	27568.	534.2 — 430
5	13.5	TI	45877.	889.0 — 710
6	14.0	TI	115898.	2245.8 — 1800
7	14.2	TI	93106.	1804.2 — 1400

CALCULATE % ON ENTRY #:

AREA TABLE ENTRIES: FRN 14764

Entry	Time	Mass	Area	%
~~1~~	~~16.7~~	~~163.7~~	~~32941.~~	~~102.1~~ EM
2	16.7	163.7	32260.	100.0 —
3	15.6	TI	47959.	148.7 — 120
4	15.8	TI	81941.	254.0 — 200
5	15.9	TI	52598.	163.0 — 130
6	16.1	TI	25724.	79.7 — 64
~~7~~	~~16.1~~	~~TI~~	~~14323.~~	~~44.4 — 36 — ?~~ EM

CALCULATE % ON ENTRY #:

AREA TABLE ENTRIES: FRN 14764

Entry	Time	Mass	Area	%
1	9.0	149.7	27229.	100.0
2	7.8	TI	6765.	24.8

CALCULATE % ON ENTRY #:

AREA TABLE ENTRIES: FRN 14764

Entry	Time	Mass	Area	%
1	16.7	163.7	32260.	100.0
2	16.3	TI	13097.	40.6

CALCULATE % ON ENTRY #:

AREA TABLE ENTRIES: FRN 14764

Entry	Time	Mass	Area	%
1	27.0	239.7	17872.	100.0
2	26.0	TI	12886.	72.1

CALCULATE % ON ENTRY #:

-58

Date 3/30/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

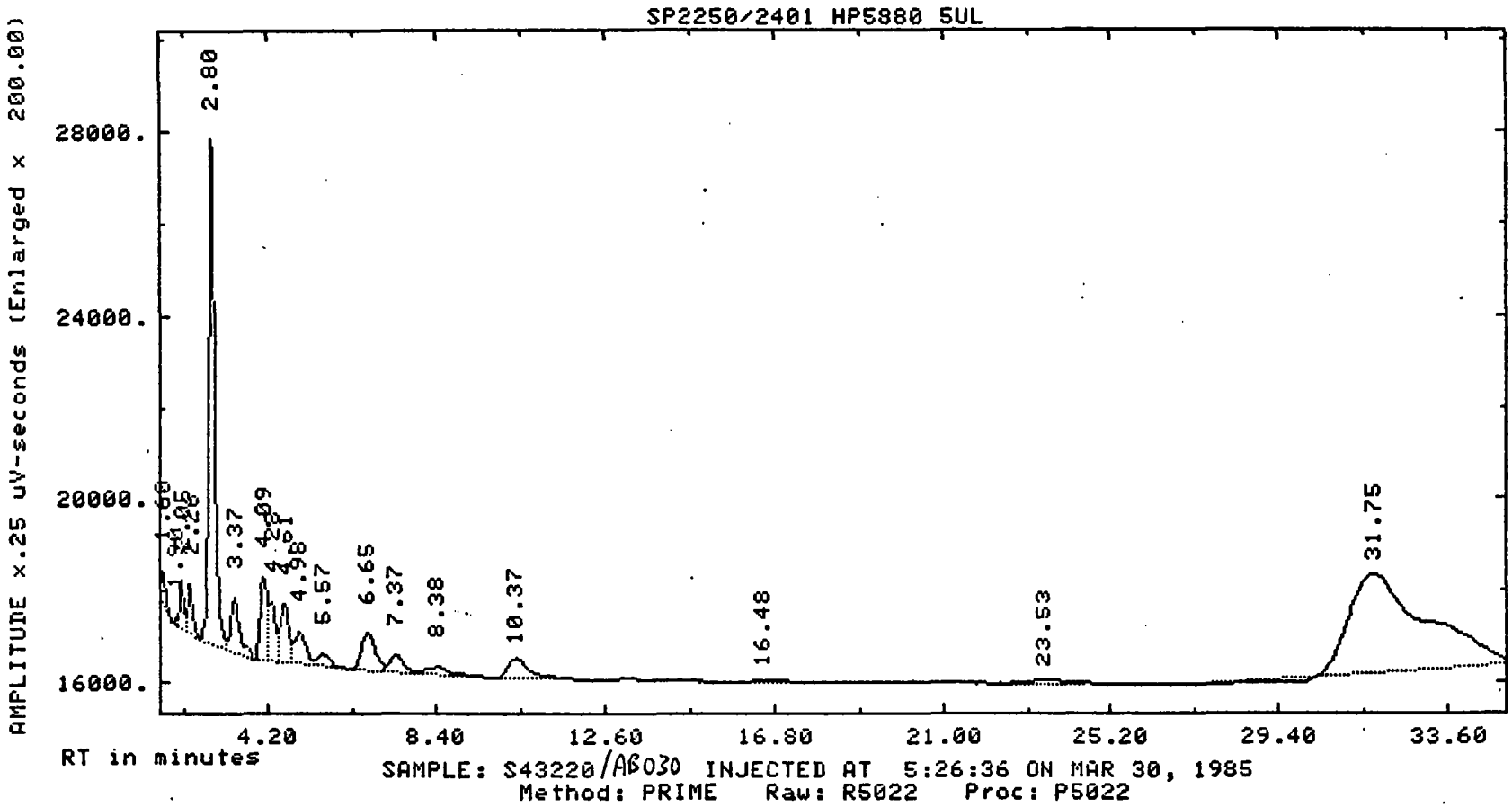
Case # 3969

Sample I.D. 43220/ AB030 HP 5880
Run # 22 Bottle # 22

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted) Spiked at	g (ug/l) ppb Recovery	total ug
31.75	Dibutylchlorendate	137	103 x	10 = 1030 1000ng	103	

GCA CORPORATION Technology Division

Case 3969



III 232.

PROCESSED DATA FILE: P5022 ON CRN 21 Case 5767

APR 2, 1985 11:37:10

REPORT: 118 CHANNEL: 2 # PEAKS: -20 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.10	0.00	1.00000	5770	BV	2.002	
2	1.41	0.00	1.00000	2239	VV	.777	
3	1.60	0.00	1.00000	2990	VV	1.038	
4	1.90	0.00	1.00000	371	VV	.129	
5	2.05	0.00	1.00000	4339	VV	1.506	
6	2.26	0.00	1.00000	4392	VV	1.524	
7	2.80	0.00	1.00000	56233	VV	19.515	
8	3.37	0.00	1.00000	9171	VV	3.183	
9	4.09	0.00	1.00000	11008	VV	3.820	
10	4.28	0.00	1.00000	7355	VV	2.552	
11	4.61	0.00	1.00000	9648	VV	3.348	
12	4.98	0.00	1.00000	6485	VV	2.250	
13	5.57	0.00	1.00000	2592	VB	.900	
14	6.65	0.00	1.00000	10134	BV	3.517	
15	7.37	0.00	1.00000	4233	VV	1.469	
16	8.38	0.00	1.00000	2629	VB	.912	
17	10.37	0.00	1.00000	7804	BB	2.708	
18	16.48	0.00	1.00000	1139	BB	.395	
19	23.53	0.00	1.00000	2287	BB	.794	
20	31.75	0.00	1.00000	137339	BF	47.661	

TOTAL AREA = 288159 TOTAL AREA % = 100.000

SAMPLE: S43220/AB030 INJECTED AT 5:26:36 ON MAR 30, 1985

ZERO METHOD: PRIME SEQ: SM03 SUBSQ/SAMP: 1 / 22 BTL: 22

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	NO

ACTUAL RUN TIME: 40.008 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: R5022 PARAM FILES= METHOD: SEQ:

DONE

ORGANICS ANALYSIS DATA SHEET

LAB 051

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:

GCA
213 Burlington Rd
Bedford, MA

Attn: Gary Hurt

Transfer Ship To:

⑤ Regional Office: I

Sampling Personnel:

John Williams
(Name)

(617) 742 5151
(Phone)

Sampling Date:

2/28/85 (Begin) 2/28/85 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	80 oz
Water (VOA)	2	90 ml
Soil/Sediment (Extractable)		
Soil/Sediment (VOA)		
Other		

⑪ Analysis Lab:
Rec'd by: V. Lam
Date Rec'd: 3/1/85
Sample Condition on Receipt (e.g., broken, r. ice, Chain-of-Custody, etc.)

No sample tags

⑦ Shipping Information

Hand-carry
Name of Carrier

Date Shipped:

Airbill Number:

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) ___

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MA1029

LAB FILE COPY

III 234

Laboratory Name: GCA
Lab Sample ID No. 43235
Sample Matrix: Water
Data Release Authorized By

Case No 3969
QC Report No 3969
Contract No 68-01-6767
Date Sample Received 3/1/85

AB-03

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/5/85

Conc/Dil Factor: 1 pH NA

Percent Moisture: NA

Percent Moisture (Decanted): NA

ETmm 5/2/85 R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	7.7R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	*

* see narrative

[illegible]

Value [illegible] detection limit [illegible]

U Indicates compound was [illegible] Report the minimum detection [illegible] 10U [illegible] Compound was analyzed [illegible] detected. The number is the minimum [illegible] for the sample.

J Indicates an estimated value. [illegible] identified compounds [illegible]

C This flag [illegible] parameters where the [illegible] been confirmed by GC/MS. Single [illegible] 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag [illegible] the analyte is found in the blank [illegible] indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described [illegible] in the data summary report.

III 235

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number AB031

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0 l → 1.0 ml

E T... 5/15/85 R=Reject

CAS Number		ug/l or ug/Kg (Circle One) — ug/l circled
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	3 J R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB031

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 3/30/85

Conc/Dil Factor: 1

ETMM 5/15/85

NA = Not Analyzed

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4, 4'-DDD	0.10U
7421-93-4	Endrin Aldehyde	0.10U
1031-07-8	Endosulfan Sulfate	~~0.10U~~ 0.25U gff 4/3
50-29-3	4, 4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50U
11141-16-5	Aroclor-1232	0.50U
53469-21-9	Aroclor-1242	0.50U
12672-29-6	Aroclor-1248	0.50U
11097-69-1	Aroclor-1254	1.0U
11096-82-5	Aroclor-1260	1.0U

JM Nadl 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample number
AB-031

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		P- xylene	VOA	546	10
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

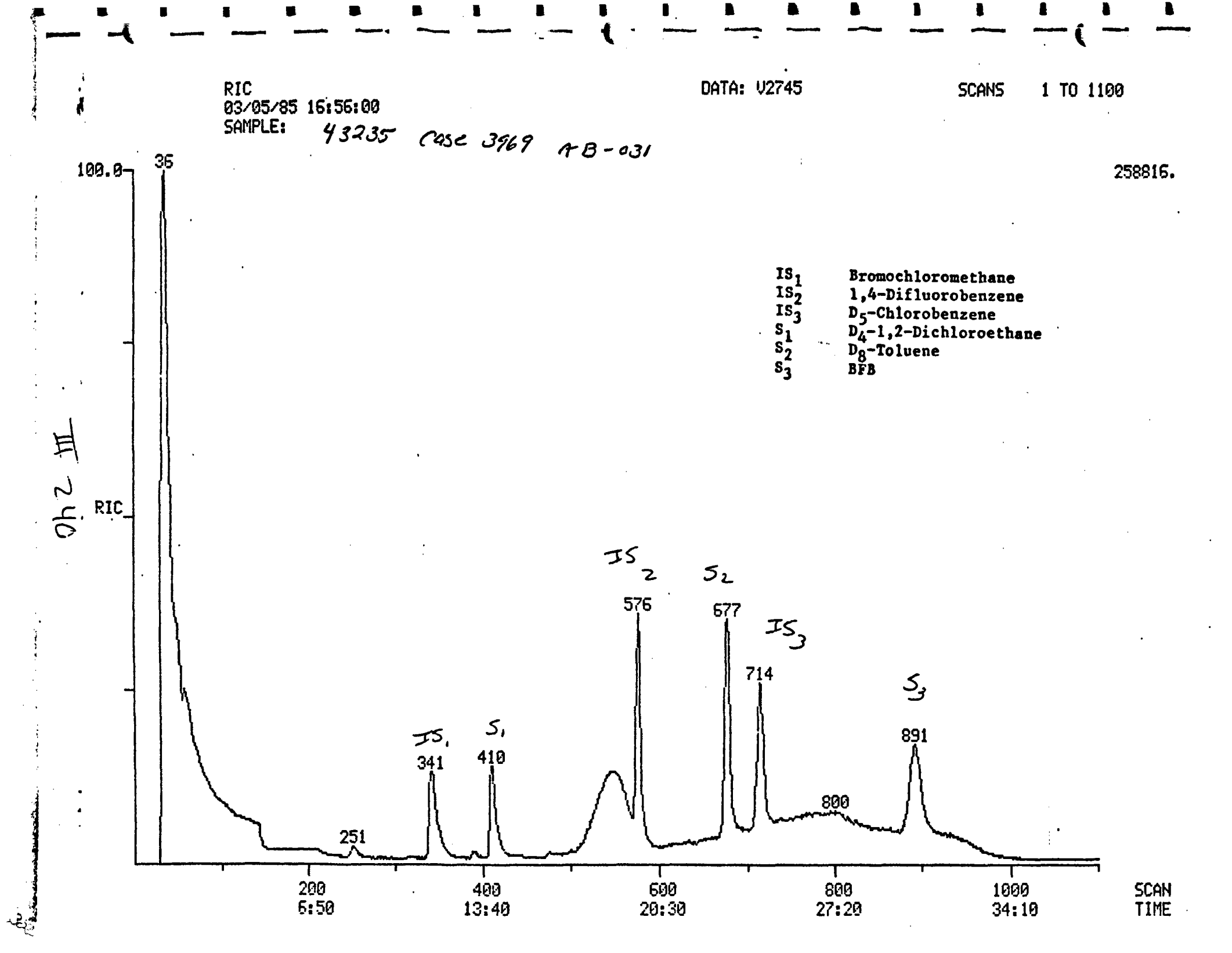
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 031

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No compounds found	BN/A		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


RIC
03/05/85 16:56:00
SAMPLE: 43235 Case 3969 AB-031
DATA: V2745
SCANS 1 TO 1100
100.0
RIC
258816.
36
251
341
410
576
677
714
800
891
IS1
S1
IS2
S2
IS3
S3
IS1 Bromochloromethane
IS2 1,4-Difluorobenzene
IS3 D5-Chlorobenzene
S1 D4-1,2-Dichloroethane
S2 D8-Toluene
S3 BFB
200
5:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

QUANTITATION REPORT FILE: V2745

ATA: V2745.TI
3/05/85 16:56:00 AB-031 Case 3969
SAMPLE:
UBMITTED BY: ANALYST:

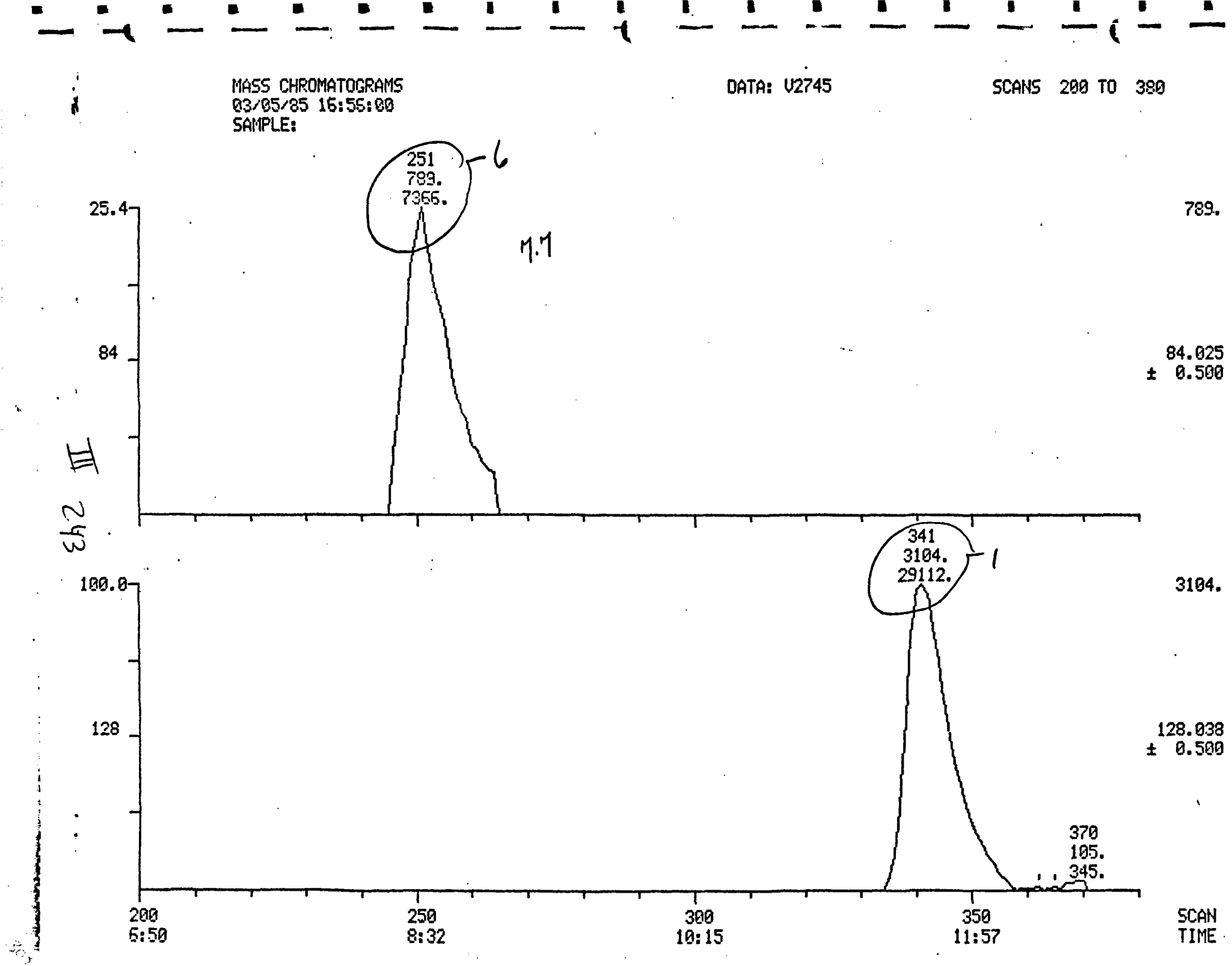
MOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
ESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	BROMOCHLOROMETHANE(I. S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS 1,2-DICHLOROETHENE
12	CHLOROFORM
13	1,2-DICHLOROETHANE
14	D4-1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	1,4-DIFLUROBENZENE(I. S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS 1,3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	BENZENE
27	CIS-1,3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I. S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1,1,2,2,TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	341	11:39	1	1.000	A BB	28974.	50.000 UG/L	11.18
2	NOT FOUND								
3	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	65	410	14:00	1	1.202	A BB	102384.	97.463	%REC	21.80
15	NOT FOUND									
16	114	576	19:41	16	1.000	A BB	149817.	50.000	UG/L	11.18
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	98	677	23:08	16	1.175	A BB	172912.	94.924	%REC	21.23
30	NOT FOUND									
31	117	714	24:24	31	1.000	A BB	100229.	50.000	UG/L	11.18
32	NOT FOUND									
33	NOT FOUND									
34	164	631	21:34	31	0.884	A BB	614.	0.681	UG/L	0.15
35	83	635	21:42	31	0.889	A BB	114.	0.118	UG/L	0.03
36	92	683	23:20	31	0.957	A BB	2938.	1.286	UG/L	0.29
37	112	719	24:34	31	1.007	A BB	2256.	0.992	UG/L	0.22
38	106	806	27:32	31	1.129	A BB	1241.	1.070	UG/L	0.24
39	95	891	30:27	31	1.248	A BB	90079.	100.620	%REC	22.50
40	NOT FOUND									
41	NOT FOUND									

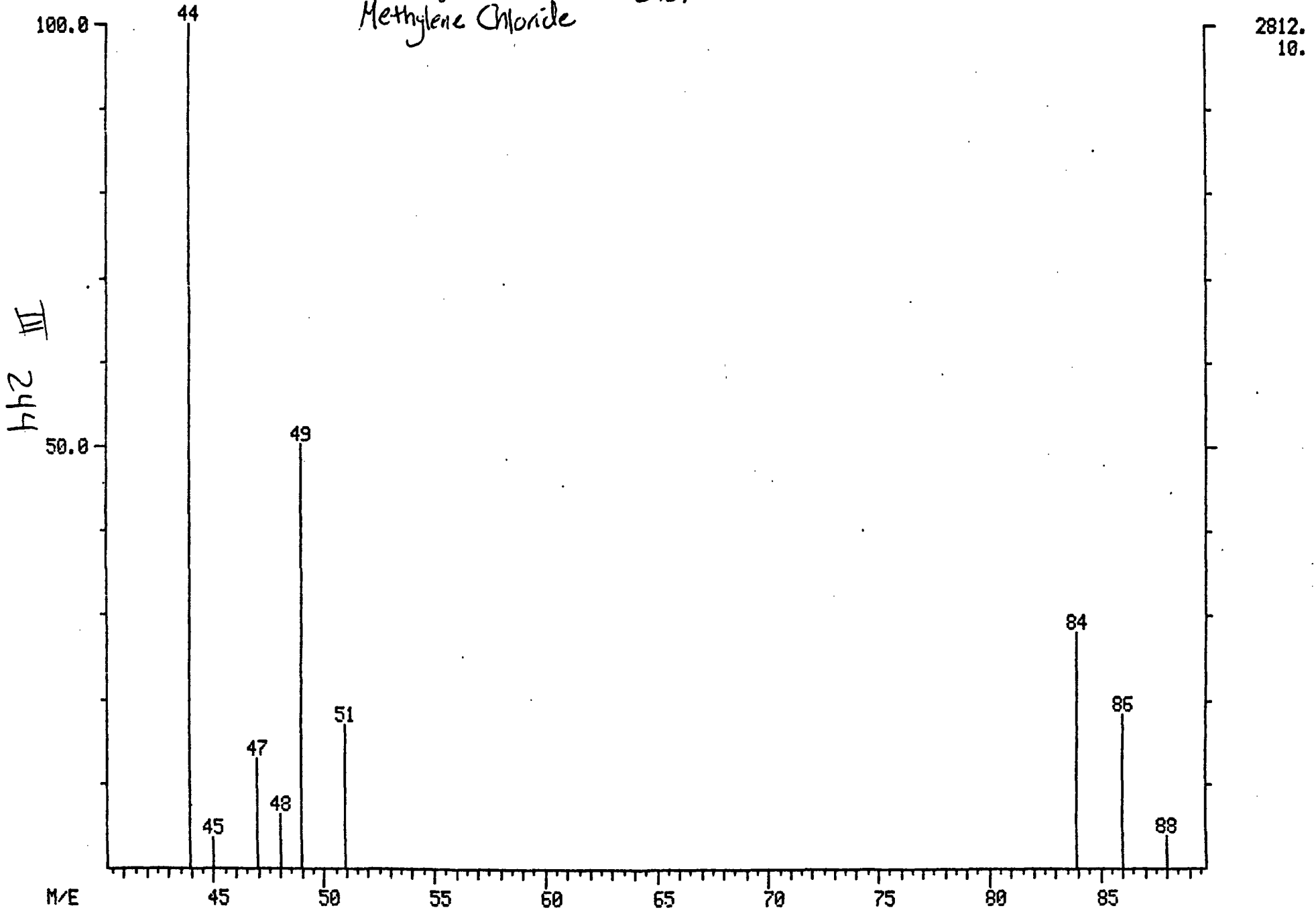
AB 031 Case 3969 3/5/85


MASS CHROMATOGRAMS
03/05/85 15:55:00
SAMPLE:
DATA: V2745
SCANS 200 TO 380
251
789.
7366.
6
11.1
25.4
84
789.
84.025
± 0.500
341
3104.
29112.
1
100.0
128
3104.
128.038
± 0.500
370
105.
345.
200
6:50
250
8:32
300
10:15
350
11:57
SCAN
TIME

MASS SPECTRUM
03/05/85 16:56:00 + 8:35
SAMPLE: 43235 ABO21 Case 3967
Methylene Chloride

DATA: V2745 #251

BASE M/E: 44
RIC: 6775.

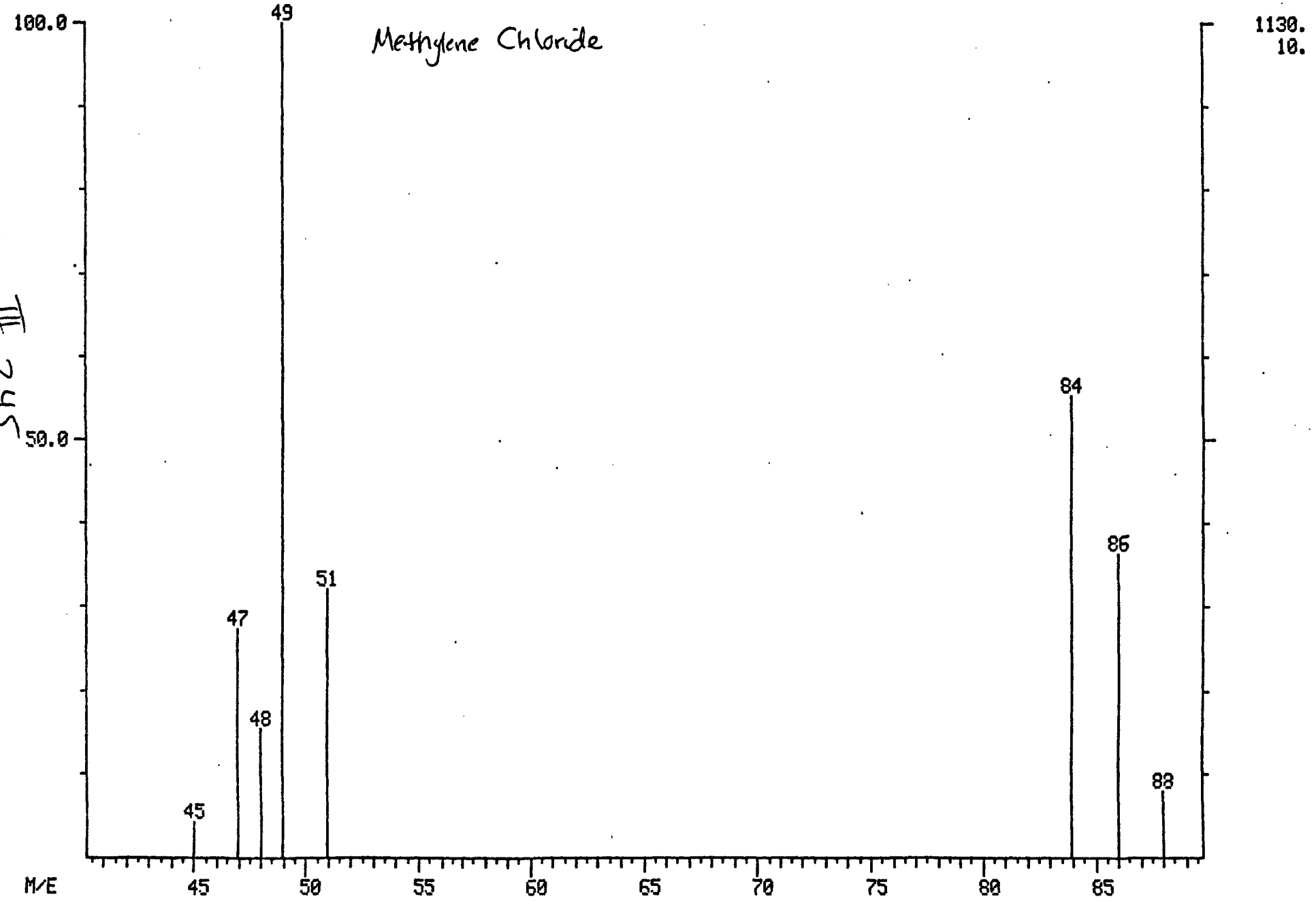


III 244

MASS SPECTRUM
03/05/85 16:55:00 + 8:35
SAMPLE:
ENHANCED (S 15B 2N) 43235 AB 031 Case 3769

DATA: V2745 #251

BASE M/E: 49
RIC: 3152.



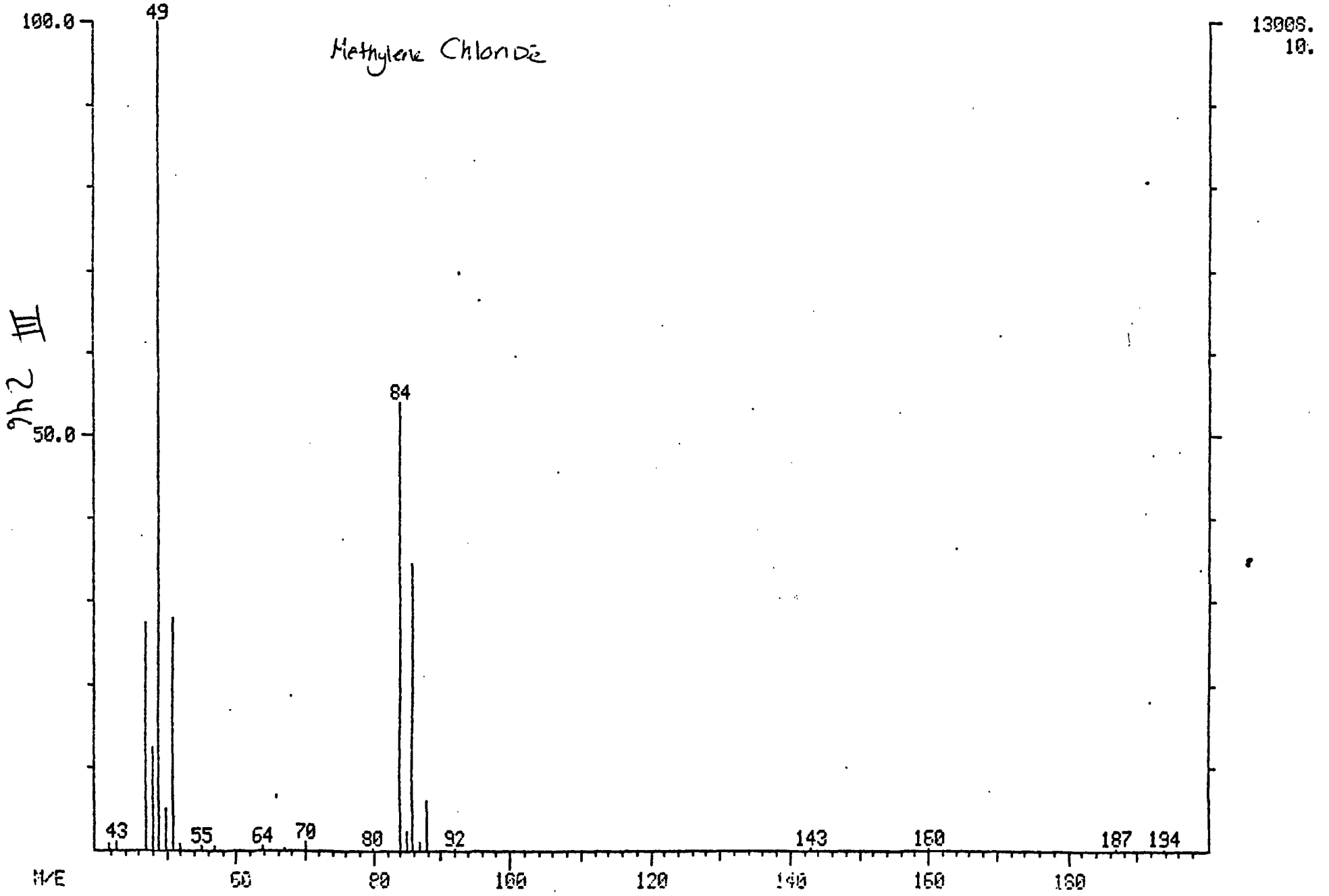
Sh2 III

MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)

DATA: V2708 #248

BASE M/E: 49
RIC: 36224.

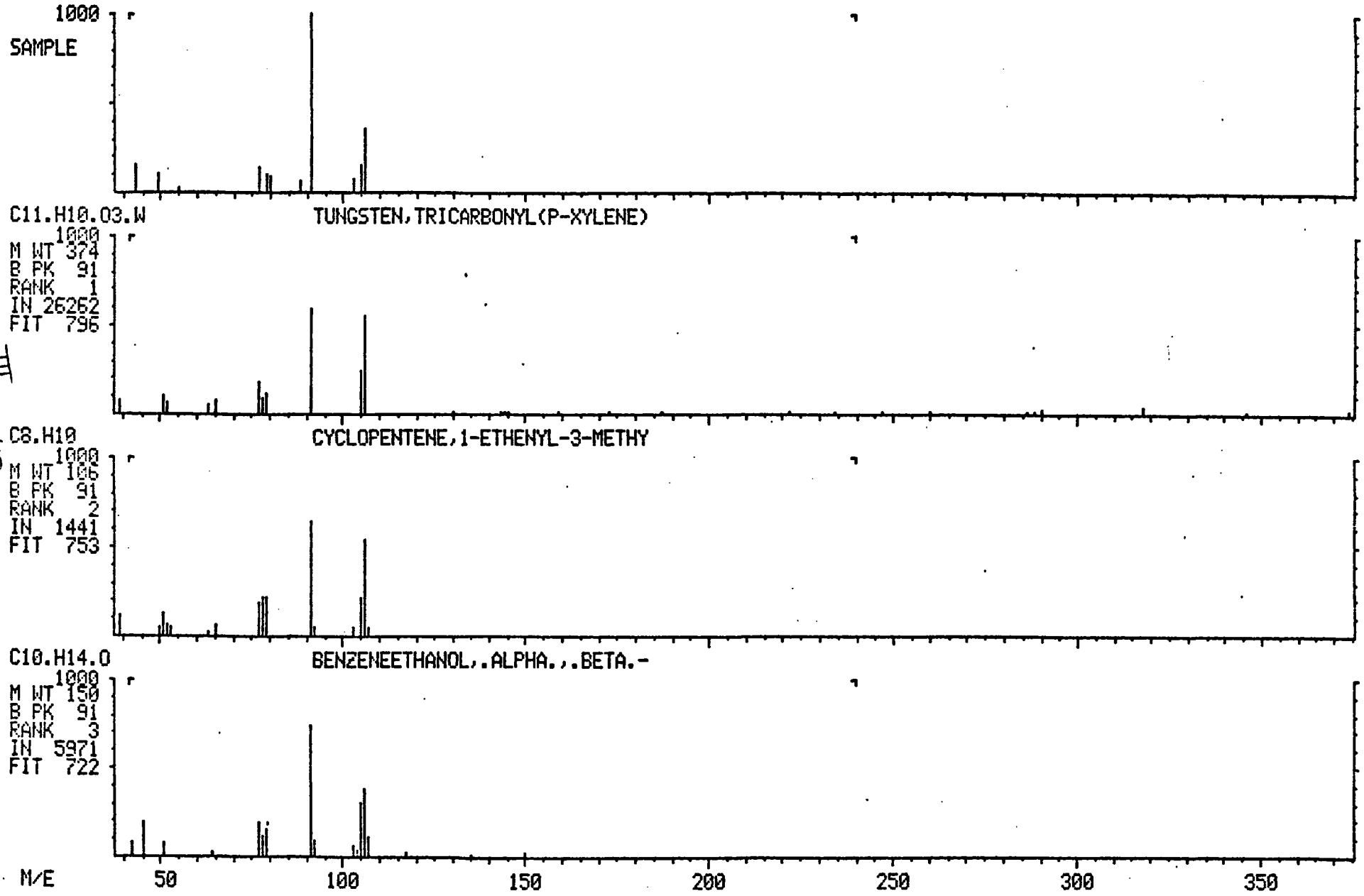
3969
case ~~3951~~ 100 ppb



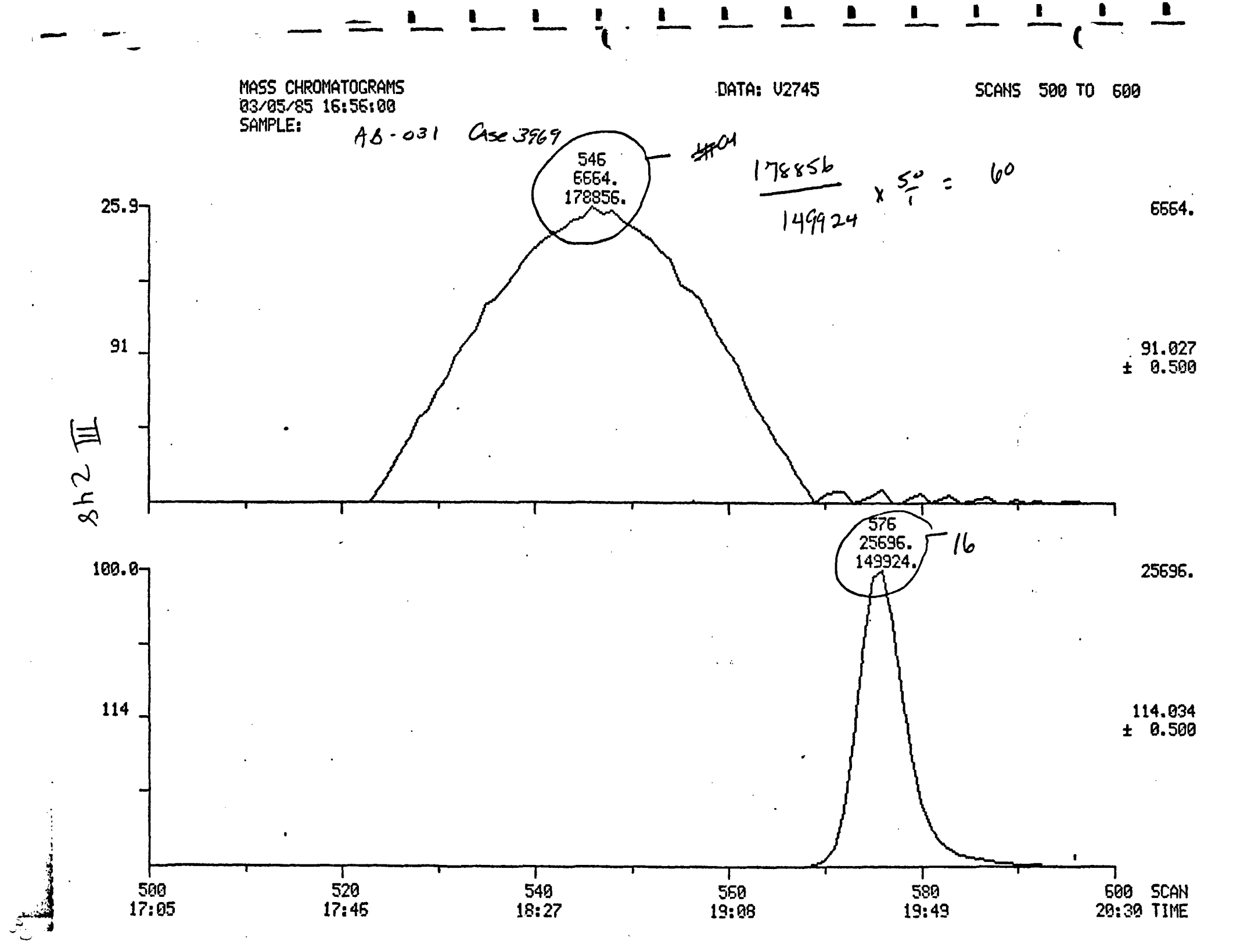
LIBRARY SEARCH
03/05/85 16:56:00 + 18:39
SAMPLE:
ENHANCED (S 15B 2N 0T) AB-031 Case 3769

DATA: V2745 # 546

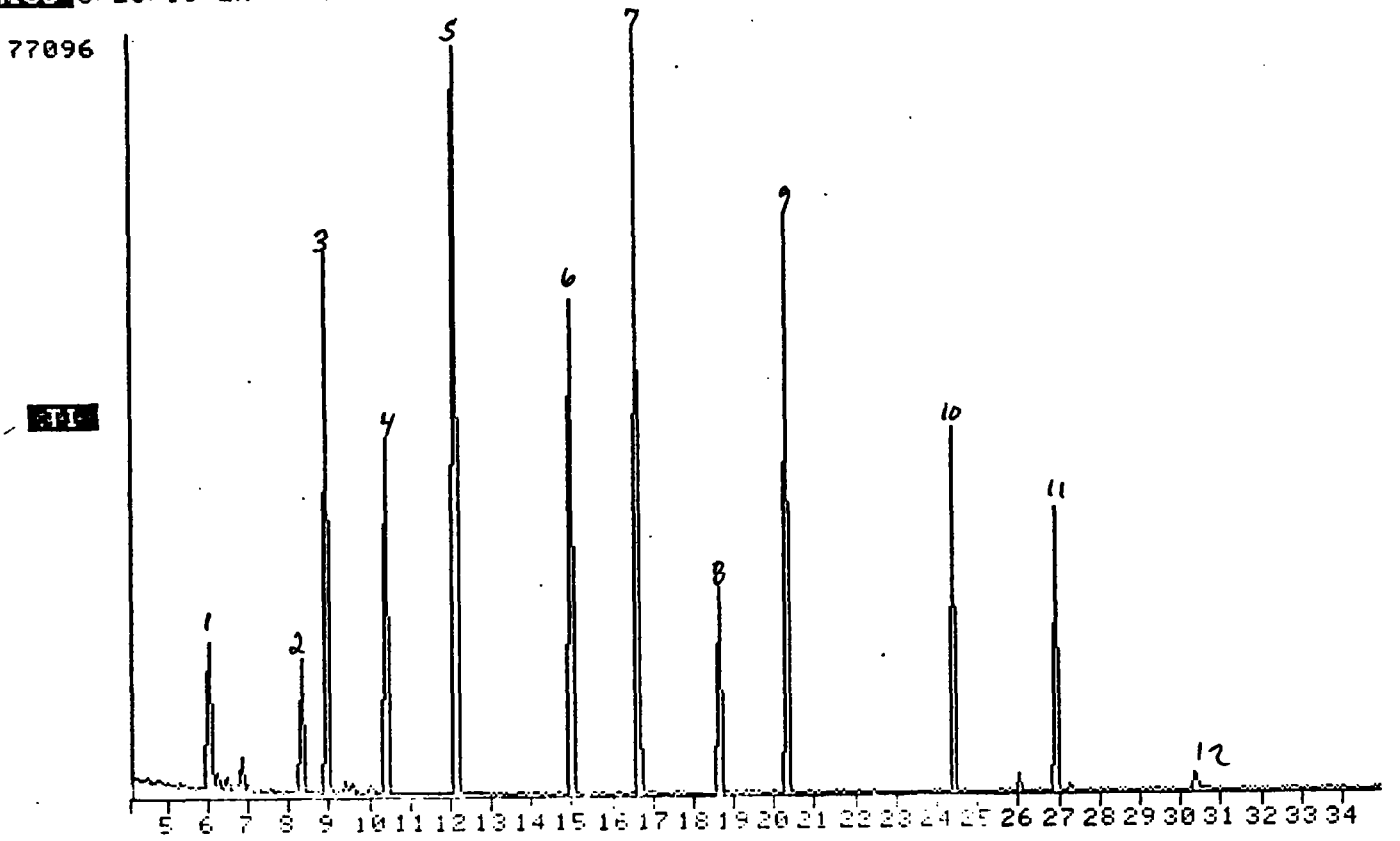
BASE M/E: 91
RIC: 2119.



Lh2 III


MASS CHROMATOGRAMS
03/05/85 16:56:00
SAMPLE:
AB-031 Case 3969
DATA: V2745
SCANS 500 TO 600
546
6664.
178856.
#401
178856 / 149924 x 50/1 = 60
25.9
91
6664.
91.027
± 0.500
8h2 III
576
25696.
149924.
16
100.0
114
25696.
114.034
± 0.500
500
17:05
520
17:45
540
18:27
560
19:08
580
19:49
600 SCAN
20:30 TIME

NAME 43221 AB031 CASE 3969
MISC 3/25/85/EM BTL#24 Q14765 D14765
SCRN 14/65



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

FILE NUMBER 14765

43221 AB031 CASE 3969

3/25/85/EM BTL#24 Q14765 D14765

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
9.9	74.0	.046	.0000	N-NITROSODIMETHYLAMINE			
8.4	93.0	.913	.0000	ANILINE			
8.5	93.0	.709	.0000	BIS(2-CHLOROETHYL)ETHER			
8.9	146.0	.591	.0000	1,3-DICHLOROBENZENE			
9.0	146.0	.594	.0000	1,4-DICHLOROBENZENE			
9.5	108.0	.395	.0000	BENZYL ALCOHOL			
9.5	146.0	.594	.0000	1,2-DICHLOROBENZENE			
9.9	45.0	.527	.0000	BIS(2-CHLOROISOPROPYL)ETHER			
10.2	70.0	.490	.0000	N-NITROSODINPROPYLAMINE			
10.2	117.0	.291	.0000	HEXACHLOROETHANE			
10.4	77.0	.716	~~.5346~~ .EM	NITROBENZENE			
12.2	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.1	138.0	1.519	.0000	ISOPHORONE			
11.8	95.0	1.813	.0000	BIS(2-CHLOROETHOXY)METHANE			
12.1	180.0	2.642	.0000	1,2,4-TRICHLOROBENZENE			
12.2	129.0	1.325	.0000	NAPHTHALENE			
12.5	127.0	4.577	.0000	4-CHLOROANILINE			
12.7	225.0	1.190	.0000	HEXACHLOROBUTADIENE			
14.0	115.0	2.578	.0000	2-METHYLNAPHTHALENE			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE			
14.6	237.0	.205	.0000	HEXACHLOROCYCLOPENTADIENE			
15.2	164.0	.281	.0000	2-CHLORONAPTHALENE			
15.6	138.0	.397	.0000	2-NITROANILINE			
16.2	164.0	.083	.0000	DIMETHYL PHTHALATE			
16.3	151.0	.272	.0000	ACENAPHTHYLENE			
16.4	165.0	.228	.0000	2,6-DINITROTOLUENE			
16.7	138.0	.293	.0000	3-NITROANILINE			
16.8	152.0	.437	.0000	ACENAPHTHENE			
17.2	139.0	.490	.0000	DIBENZOFURAN			
17.3	165.0	.320	.0000	2,4-DINITROTOLUENE			
18.0	177.0	.171	.0000	DIETHYL PHTHALATE			
18.0	165.0	.820	.0000	FLUORENE			
18.1	204.0	.358	.0000	4-CHLOROPHENYLPHENYL ETHER			
18.2	138.0	.292	.0000	4-NITROANILINE			
17.2	169.0	.144	.0000	DIPHENYLAMINE			

III 250

FILE NUMBER 14765

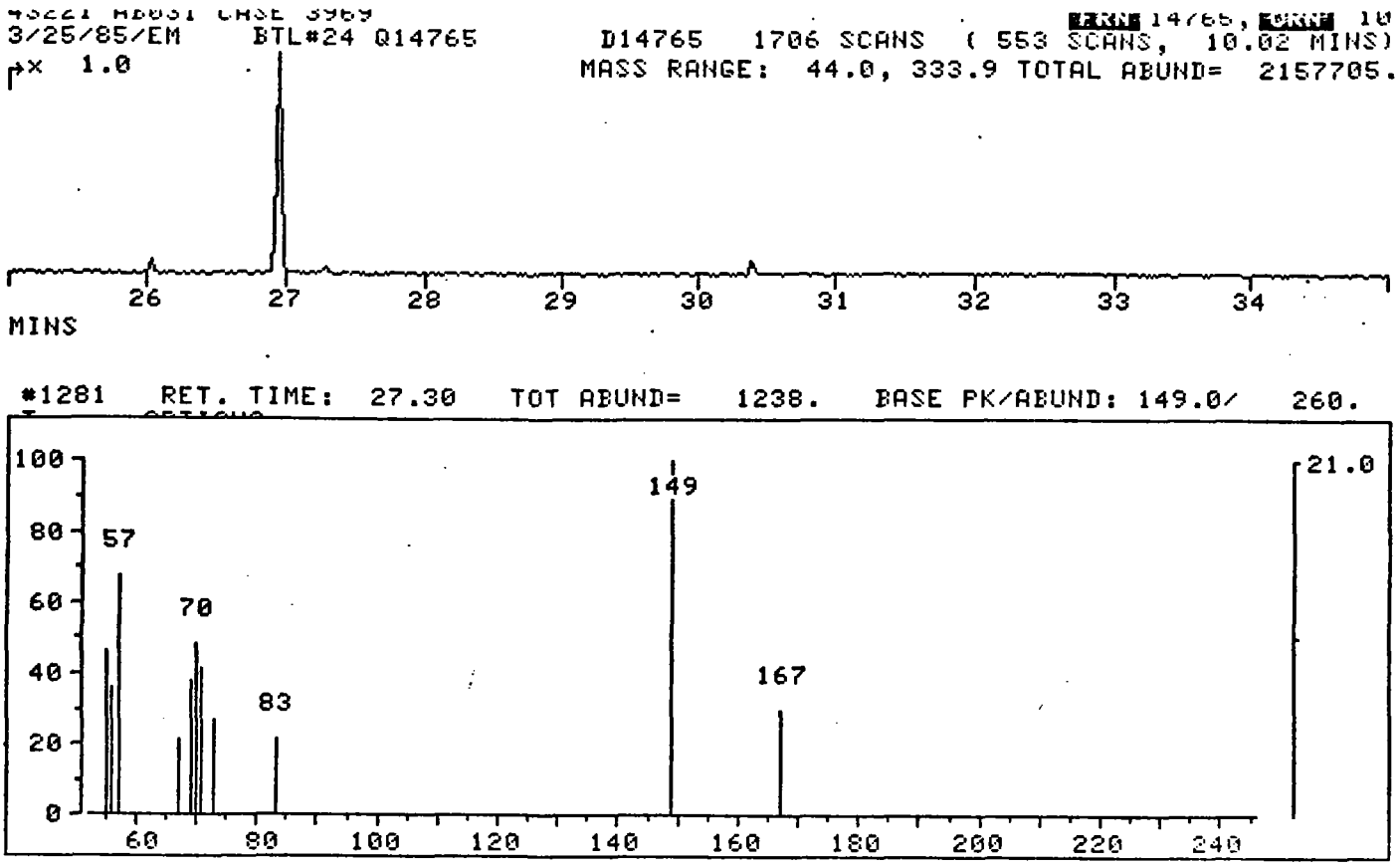
43221 AB031 CASE 3969
3/25/85/EM BTL#24 Q14765 D14765

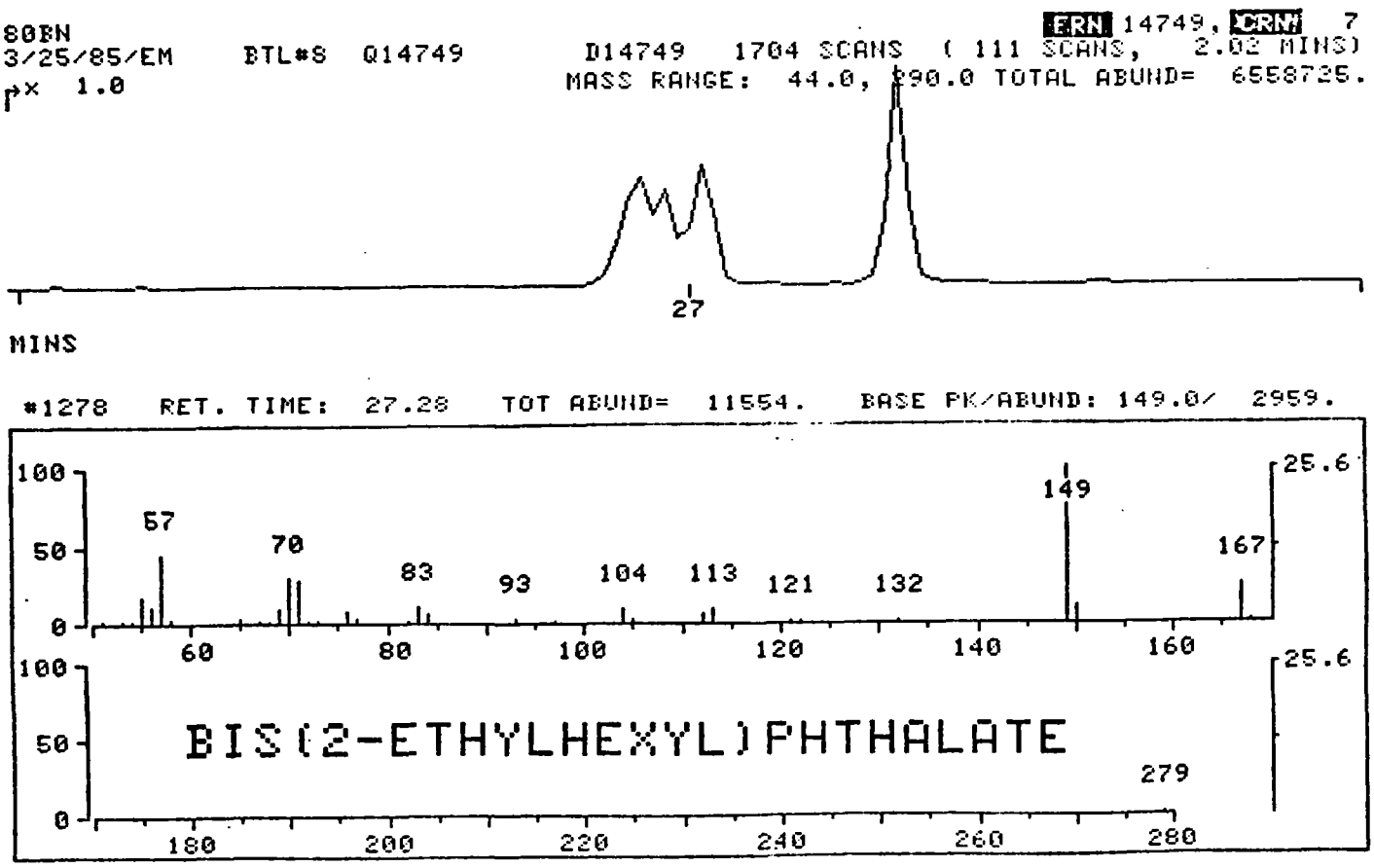
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.3	188.0	1.000	80.0000				D10-PHENANTHRENE(20)
19.3	248.0	.112	.0000				4-BROMOPHENYLPHENYL ETHER
19.6	284.0	.112	.0000				HEXACHLOROBENZENE
20.4	179.0	.060	.0000				PHENANTHRENE/ANTHRACENE
22.1	150.0	.100	.0000				DIBUTYL PHTHALATE
23.4	202.0	.665	.0000				FLUORANTHENE
27.0	240.0	1.000	80.0000				D12-CHRYSENE
23.9	202.0	2.264	.0000				PYRENE
25.8	149.0	1.136	.0000				BUTYL BENZYL PHTHALATE
26.9	228.0	.427	.0000				BENZO(A)ANTHRACENE/CHRYSENE
27.3	149.0	1.128	1.9177	✓K			BIS(2-ETHYLHEXYL)PHTHALATE
30.4	264.0	1.000	80.0000				D12-PERYLENE
28.7	149.0	5.974	.0000				DIOCTYL PHTHALATE
29.5	252.0	1.307	.0000				BENZO(B)/(K)FLUORANTHENE
30.2	252.0	.744	.0000				BENZO(A)PYRENE
33.7	276.0	.485	.0000				INDENO(123-CD)PYRENE
33.8	278.0	.346	.0000				DIBENZO(AH)ANTHRACENE
34.6	276.0	.360	.0000				BENZO(GHI)PERYLENE
27.0	240.0	1.000	80.0000				D12-CHRYSENE
23.8	184.0	.712	.0000				BENZIDINE
27.0	252.0	.146	.0000				DICHLOROBENZIDINE

III 251

43221 AB031 CASE 3969
3/25/85/EM BTL#24 Q14765 D14765

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.2	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			


3/25/85/EM BTL#24 Q14765
D14765 1706 SCANS (553 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2157705.
1.0
26 27 28 29 30 31 32 33 34
MINS
#1281 RET. TIME: 27.30 TOT ABUND= 1238. BASE PK/ABUND: 149.0/ 260.
100 80 60 40 20 0
57 70 83 149 167 21.0
60 80 100 120 140 160 180 200 220 240


80BN
3/25/85/EM BTL#8 Q14749
D14749 1704 SCANS (111 SCANS, 2.02 MINS)
MASS RANGE: 44.0, 390.0 TOTAL ABUND= 6558725.
1.0
27
MINS
#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.
100 50 0
57 70 83 93 104 113 121 132 149 167 25.6
60 80 100 120 140 160
BIS(2-ETHYLHEXYL)PHTHALATE
279 25.6
180 200 220 240 260 280

Date 3/30/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

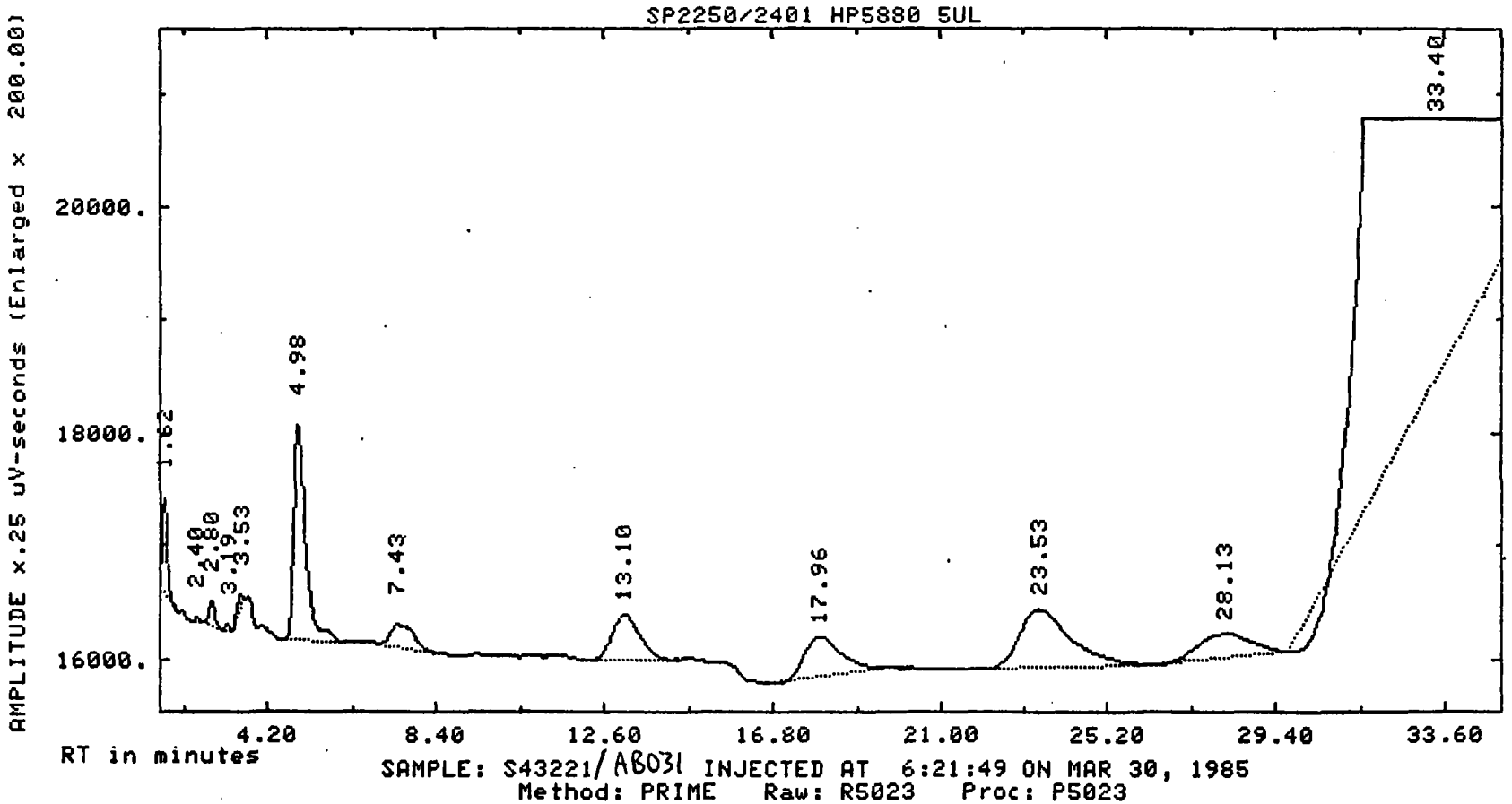
Case # 3969

Sample I.D. 43221 / AB031 HP 5880
Run # 23 Bottle # 23

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
3.19	Heptachlor	0.22	< 5.0 x	10 ÷ 1000 =	< 0.05	
3.53	δ-BHC	0.49	< 5.0 x	10 ÷ 1000 =	< 0.05	
23.53	Interferance					
	DBC obscured by peak at 33 min					
	Detection limit for Endosulfan Sulfate increased to 0.25 U because of interferance from peak at 23.53					

GCA CORPORATION
Technology Division

Case 3969



III 255

READY
*LI,P,P5023

PROCESSED DATA FILE: P5023 ON CRN 21 .

Case 3969

APR 2, 1985 11:38:50

REPORT: 119 CHANNEL: 2 # PEAKS: -15 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.45	0.00	1.00000	66	BB	.002	
2	1.62	0.00	1.00000	3393	BB	.097	
3	2.40	0.00	1.00000	152	BB	.004	
4	2.80	0.00	1.00000	1179	BV	.034	
5	3.19	0.00	1.00000	216	VV	.006	
6	3.53	0.00	1.00000	480	VB	.014	
7	4.98	0.00	1.00000	19353	BB	.555	
8	7.43	0.00	1.00000	4233	BB	.121	
9	13.10	0.00	1.00000	9433	BB	.270	
10	17.95	0.00	1.00000	11904	BB	.341	
11	23.53	0.00	1.00000	23045	BB	.661	
12	28.13	0.00	1.00000	9493	BV	.272	
13	33.40	0.00	1.00000	3077798	VV	88.233	
14	37.23	0.00	1.00000	274396	VV	7.866	
15	38.96	0.00	1.00000	53120	VF	1.523	

TOTAL AREA = 3488271 TOTAL AREA % = 100.000

SAMPLE: S43221/AB031 INJECTED AT 6:21:49 ON MAR 30, 1985

ZERO METHOD: PRIME SEQ: SM03 SUBSQ/SAMP: 1 / 23 BTL: 23

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	NO

ACTUAL RUN TIME: 40.008 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: R5023 PARAM FILES= METHOD: SEQ:

DONE

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:
GCA
213 Burlington Rd
Bedford, MA 01730

Attn: Gary Hunt

Transfer
Ship To:

⑤ Regional Office: I

Sampling Personnel:

John Williams
(Name)

(617) 742-5151
(Phone)

Sampling Date:

(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	80 ml
Water (VOA)	2	40 ml
Soil/Sediment (Extractable)		
Soil/Sediment (VOA)		
Other		

⑪ Analysis Lab:
Rec'd by: A. Lemus
Date Rec'd: 3/1/85
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

No sample tags

⑦ Shipping Information

Name of Carrier

Date Shipped:

Airbill Number:

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

INORGANIC MAA 022

LAB FILE COPY

III 257

Laboratory Name: GCA
Lab Sample ID No: 43236
Sample Matrix: Water
Data Release Authorized By: ________

Case No: 3969
QC Report No: 3969
Contract No: 68-01-6767
Date Sample Received: 3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3/5/85
Date Analyzed: 3/5/85
Conc/Dil Factor: 1 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

ET mm 5/2/85

R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	9.1 R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans 1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	*

* See Narrative

Data Reporting Qualifiers

[illegible]

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. [illegible] The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. [illegible]

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

III 258

Environmental Protection Agency. CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 032

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0 l → 10 ml

E/mm 5/2/85
R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		(ug/l) or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	5K R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB032

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 4/1/85

Conc/Dil Factor: 1

E Imm 5/5/85

NA = Not Analyzed

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

Jill Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

III 260

P O Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 032

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Compounds found	Vol		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

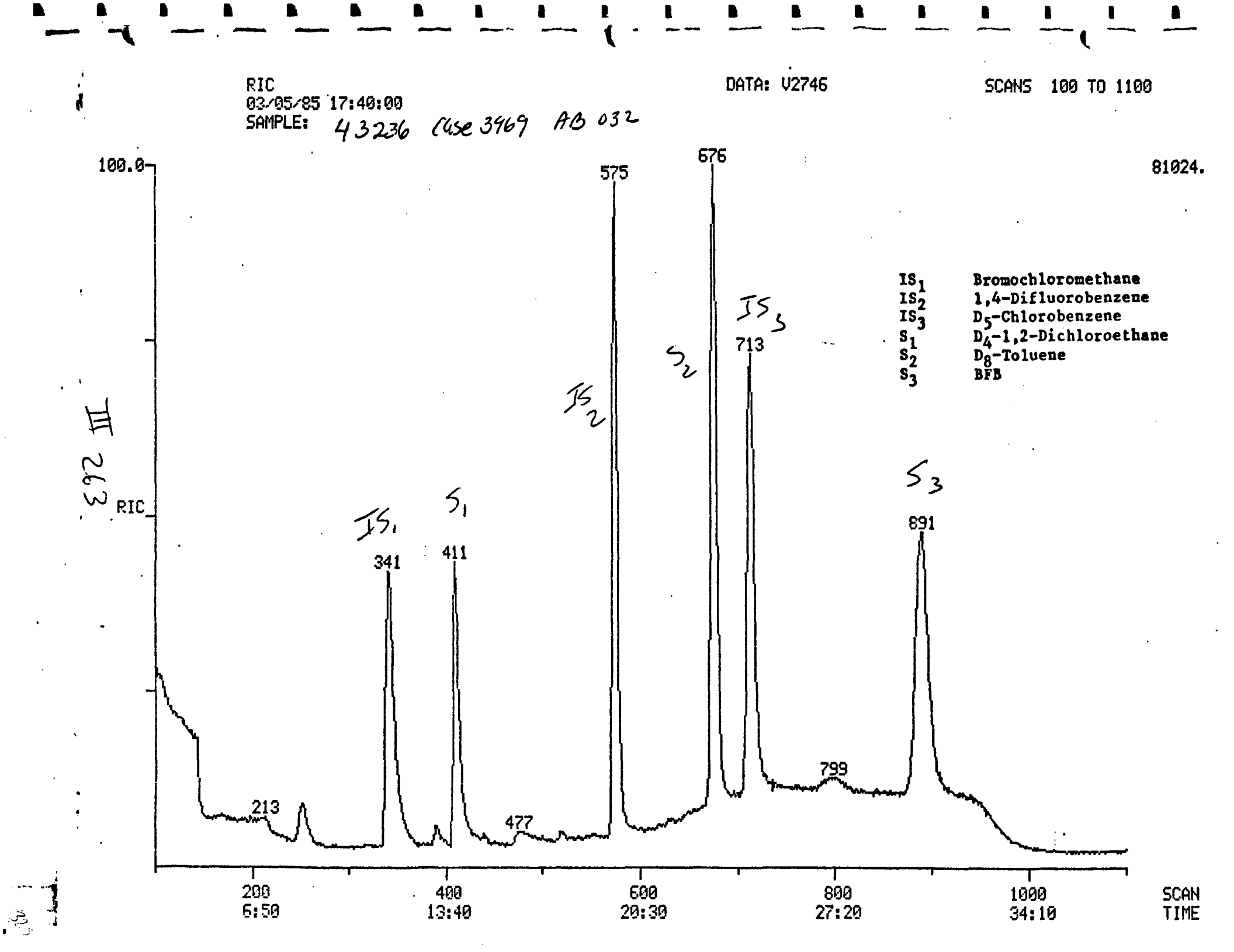
Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 032

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	B/N/A	26.0	77 J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


RIC
03/05/85 17:40:00
SAMPLE: 43236 Case 3469 AB 032
DATA: V2746
SCANS 100 TO 1100
100.0
81024.
RIC
575
676
713
341
411
213
477
799
891
IS1
S1
IS2
S2
IS3
S3
IS1 Bromochloromethane
IS2 1,4-Difluorobenzene
IS3 D5-Chlorobenzene
S1 D4-1,2-Dichloroethane
S2 D8-Toluene
S3 BFB
200
6:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

QUANTITATION REPORT FILE: M2

AB 032 Case 3969

DATA: V2746.TI
03/05/85 17:40:00
SAMPLE:
SUBMITTED BY: ANALYST:

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

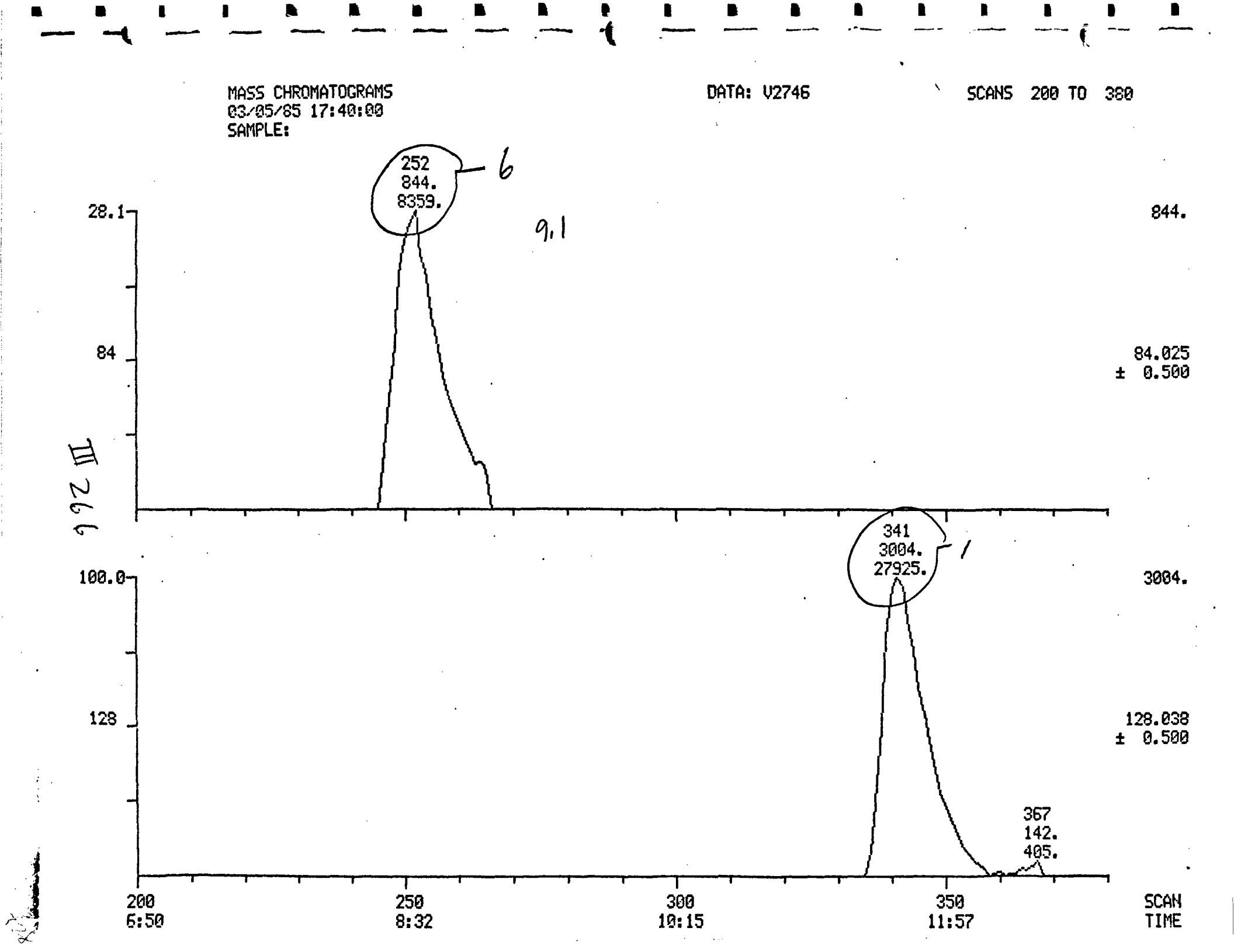
NO	NAME
1	BROMOCHLOROMETHANE(I. S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS 1,2-DICHLOROETHENE
12	CHLOROFORM
13	1,2-DICHLOROETHANE
14	D4-1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	1,4-DIFLUROBENZENE(I. S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS 1,3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	BENZENE
27	CIS-1,3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I. S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1,1,2,2,TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	341	11:39	1	1.000	A BB	27787.	50.000 UG/L	11.40
2	NOT FOUND								
3	NOT FOUND								

III 264

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	65	411	14:03	1	1.205	A BB	98178.	97.451	%REC	22.22
15	NOT FOUND									
16	114	575	19:39	16	1.000	A BB	136020.	50.000	UG/L	11.40
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	98	676	23:06	16	1.176	A BB	156815.	94.820	%REC	21.62
30	NOT FOUND									
31	117	713	24:22	31	1.000	A BB	94023.	50.000	UG/L	11.40
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	92	681	23:16	31	0.955	A BB	1505.	0.702	UG/L	0.16
37	112	719	24:34	31	1.008	A BB	1351.	0.633	UG/L	0.14
38	NOT FOUND									
39	95	891	30:27	31	1.250	A BB	79780.	94.998	%REC	21.66
40	NOT FOUND									
41	NOT FOUND									

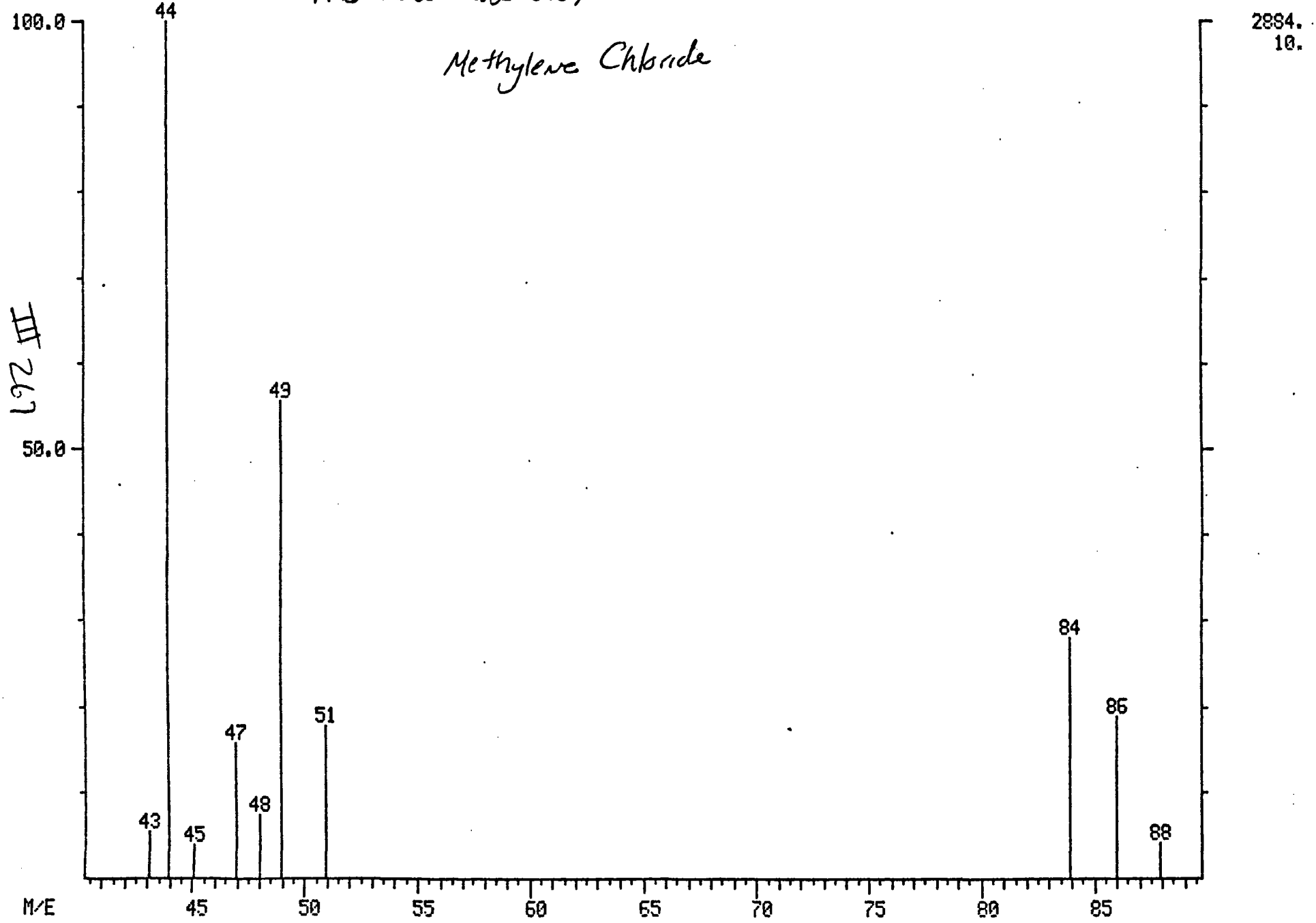
Case 3969 AB-032 3/5/85

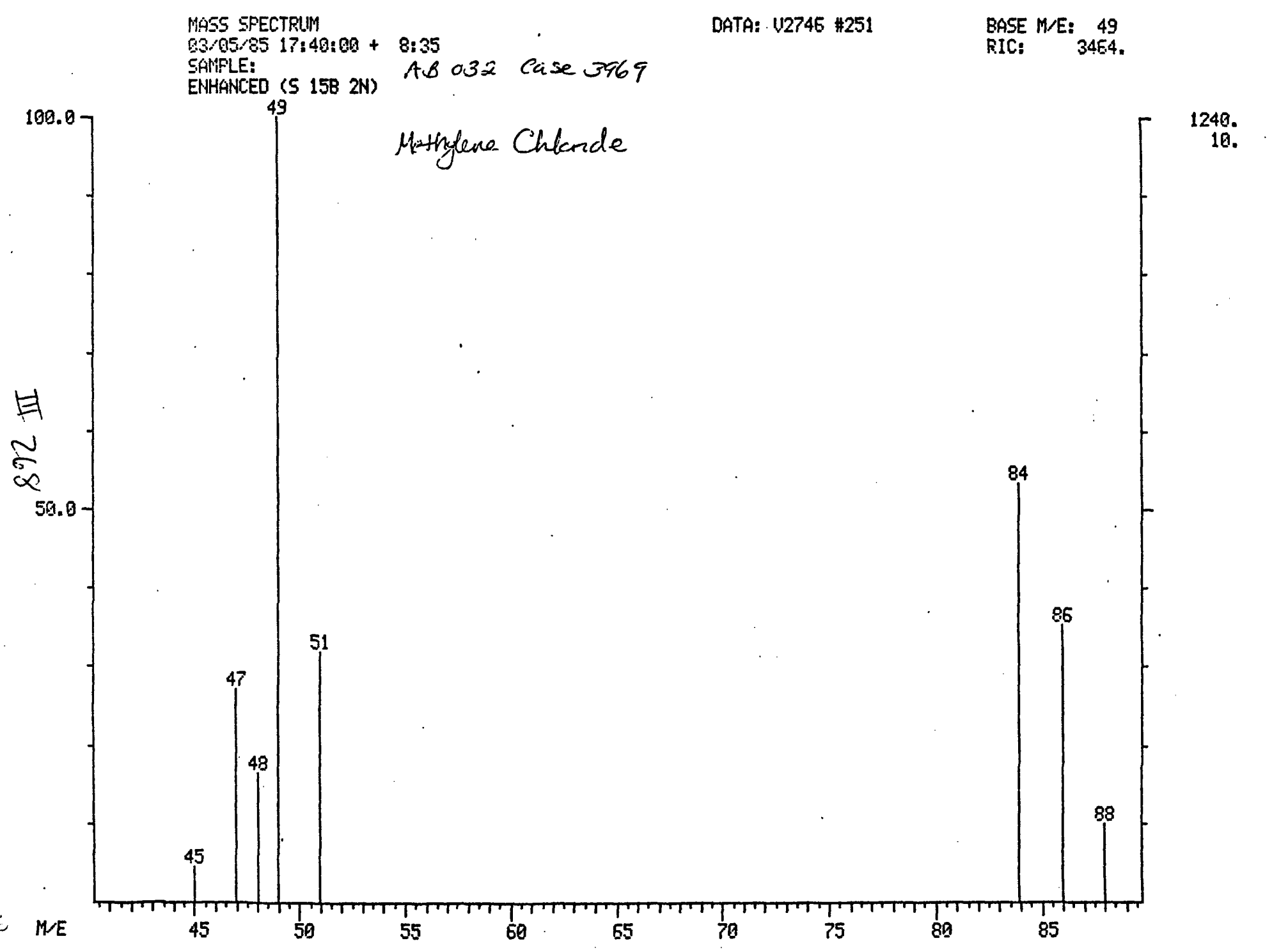

MASS CHROMATOGRAMS
03/05/85 17:40:00
SAMPLE:
DATA: V2746
SCANS 200 TO 380
252
844.
8359.
6
9.1
28.1
844.
84
84.025
± 0.500
192 III
341
3004.
27925.
1
100.0
3004.
128
128.038
± 0.500
367
142.
405.
200
6:50
250
8:32
300
10:15
350
11:57
SCAN
TIME

MASS SPECTRUM
03/05/85 17:40:00 + 8:35
SAMPLE: AB 032 Case 3969

DATA: V2746 #251

BASE M/E: 44
RIC: 7408.



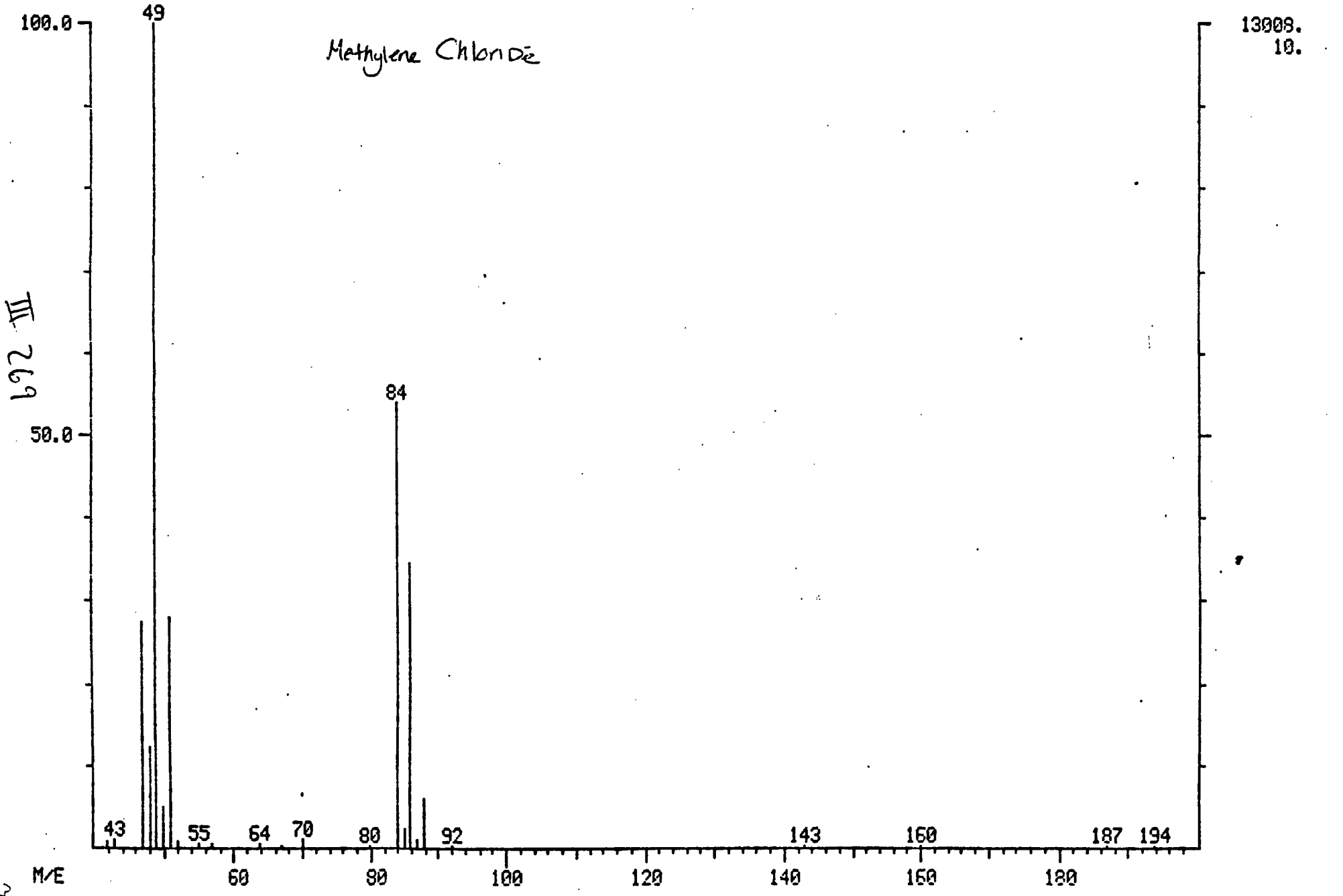

MASS SPECTRUM
03/05/85 17:40:00 + 8:35
SAMPLE:
ENHANCED (S 15B 2N)
AB 032 Case 3969
DATA: V2746 #251
BASE M/E: 49
RIC: 3464.
Methylene Chloride
100.0
50.0
1240.
10.
49
84
86
51
47
48
88
45
M/E
45
50
55
60
65
70
75
80
85

MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)

3969
case ~~3951~~ 100 ppb

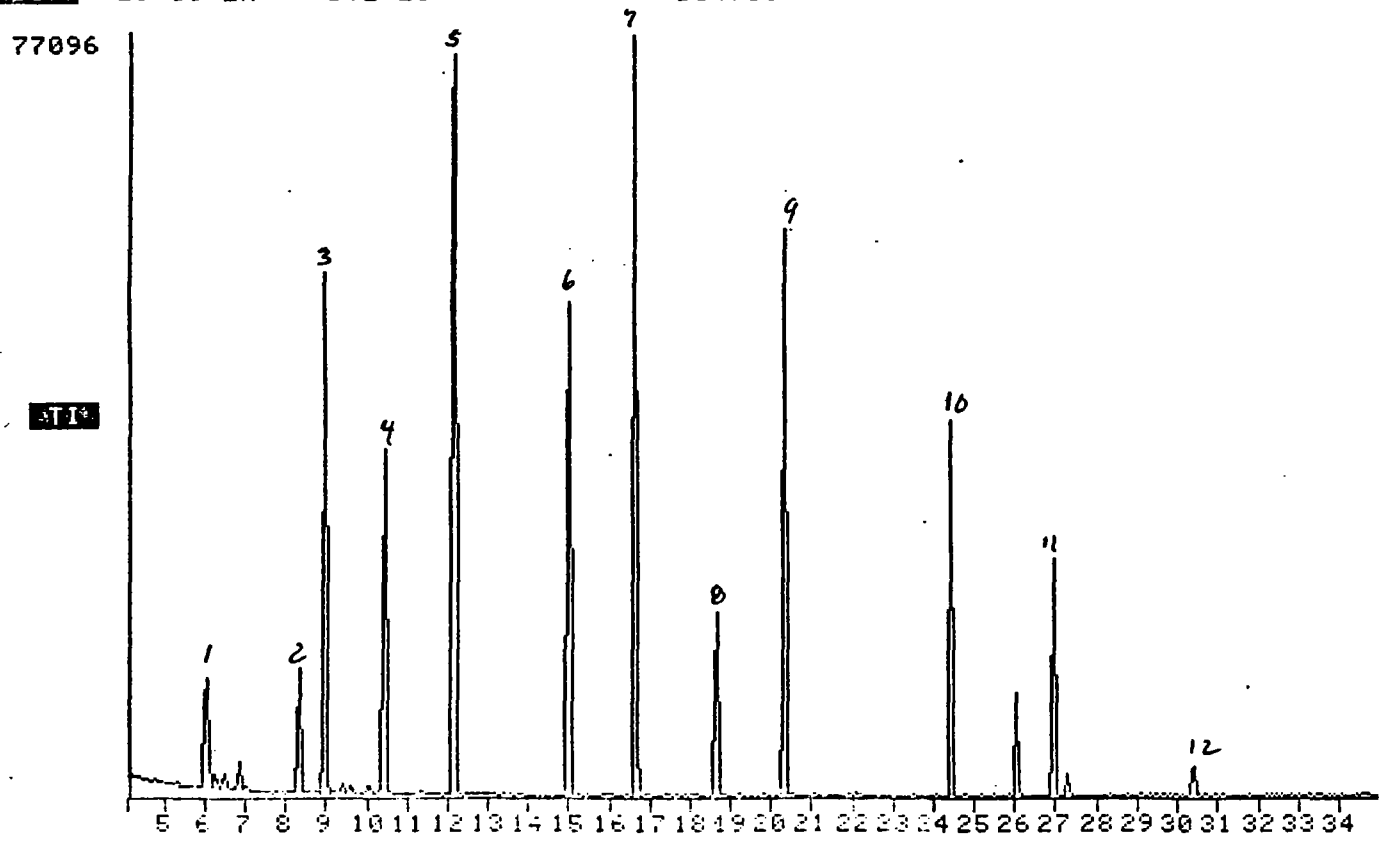
DATA: V2708 #248

BASE M/E: 49
RIC: 36224.



692 III

ANAMES 43222 AB032 CASE 3969 FRN 14766
SMISC 3/25/85/EM BTL#25 Q14766 D14766



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

FILE NUMBER 14766

43222 AB032 CASE 3969

3/25/85/EM BTL#25 Q14766 D14766

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
9.9	74.0	.046	.0000	N-NITROSODIMETHYLAMINE			
8.4	93.0	.913	.0000	ANILINE			
8.5	93.0	.709	.0000	BIS(2-CHLOROETHYL)ETHER			
8.9	146.0	.591	.0000	1,3-DICHLOROBENZENE			
9.0	146.0	.594	.0000	1,4-DICHLOROBENZENE			
9.5	108.0	.395	.0000	BENZYL ALCOHOL			
9.5	146.0	.594	.0000	1,2-DICHLOROBENZENE			
9.9	45.0	.527	.0000	BIS(2-CHLOROISOPROPYL)ETHER			
10.2	70.0	.490	.0000	N-NITROSODINPROPYLAMINE			
10.2	117.0	.291	.0000	HEXACHLOROETHANE			
10.5	77.0	.716	.0000	NITROBENZENE			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.1	138.0	1.519	.0000	ISOPHORONE			
11.8	95.0	1.813	.0000	BIS(2-CHLOROETHOXY)METHANE			
12.1	180.0	2.642	.0000	1,2,4-TRICHLOROBENZENE			
12.2	129.0	1.325	.0000	NAPHTHALENE			
12.5	127.0	4.577	.0000	4-CHLOROANILINE			
12.7	225.0	1.190	.0000	HEXACHLOROBUTADIENE			
14.0	115.0	2.578	.0000	2-METHYLNAPHTHALENE			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE			
14.6	237.0	.205	.0000	HEXACHLOROCYCLOPENTADIENE			
15.2	164.0	.281	.0000	2-CHLORONAPTHALENE			
15.6	138.0	.397	.0000	2-NITROANILINE			
16.2	164.0	.083	.0000	DIMETHYL PHTHALATE			
16.3	151.0	.272	.0000	ACENAPHTHYLENE			
16.4	165.0	.228	.0000	2,6-DINITROTOLUENE			
16.7	138.0	.293	.0000	3-NITROANILINE			
16.8	152.0	.437	.0000	ACENAPHTHENE			
17.2	139.0	.490	.0000	DIBENZOFURAN			
17.3	165.0	.320	.0000	2,4-DINITROTOLUENE			
18.0	177.0	.171	.0000	DIETHYL PHTHALATE			
18.0	165.0	.820	.0000	FLUORENE			
18.1	204.0	.358	.0000	4-CHLOROPHENYLPHENYL ETHER			
18.2	138.0	.292	.0000	4-NITROANILINE			
17.2	169.0	.144	.0000	DIPHENYLAMINE			

III 271

43222 AB032 CASE 3969
3/25/85/EM BTL#25 Q14766 D14766

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.4	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	4.8015✓	BIS(2-ETHYLHEXYL)PHTHALATE			
30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	.0000	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

II 272

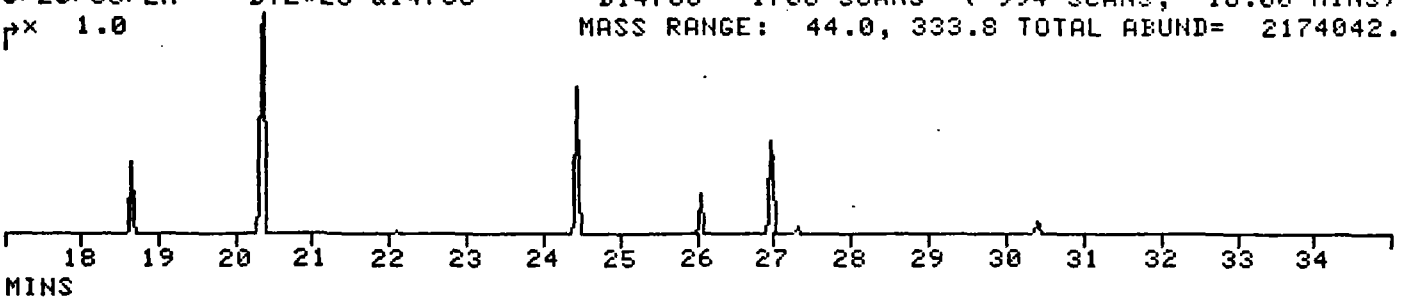
FILE NUMBER 14766

43222 AB032 CASE 3969

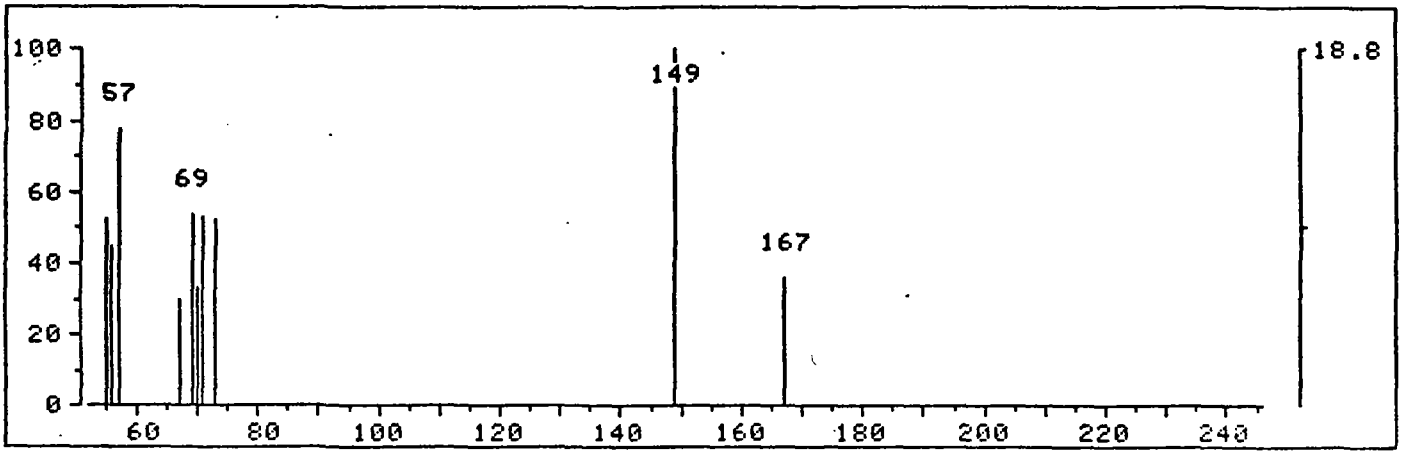
3/25/85/EM BTL#25 Q14766 D14766

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.4	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

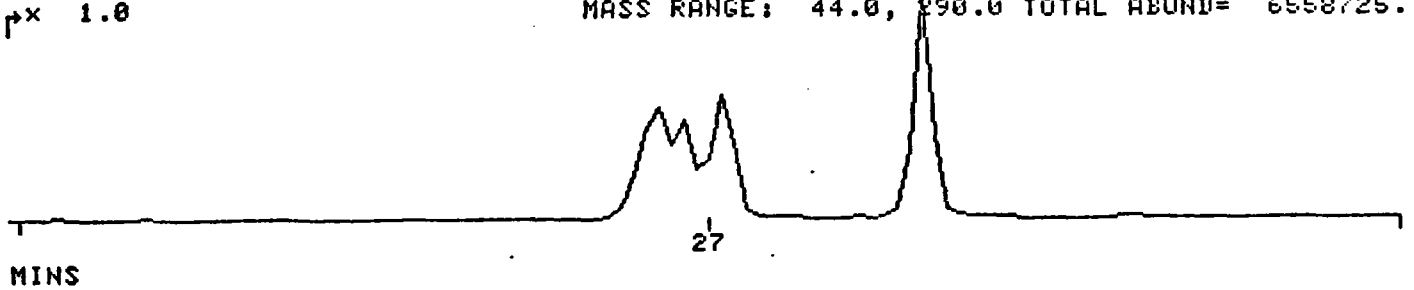
43222 AB032 CASE 3969
3/25/85/EM BTL#25 Q14766 D14766 1706 SCANS (994 SCANS, 18.00 MINS)
FRN 14766, BRN 10
↱× 1.0 MASS RANGE: 44.0, 333.8 TOTAL ABUND= 2174042.



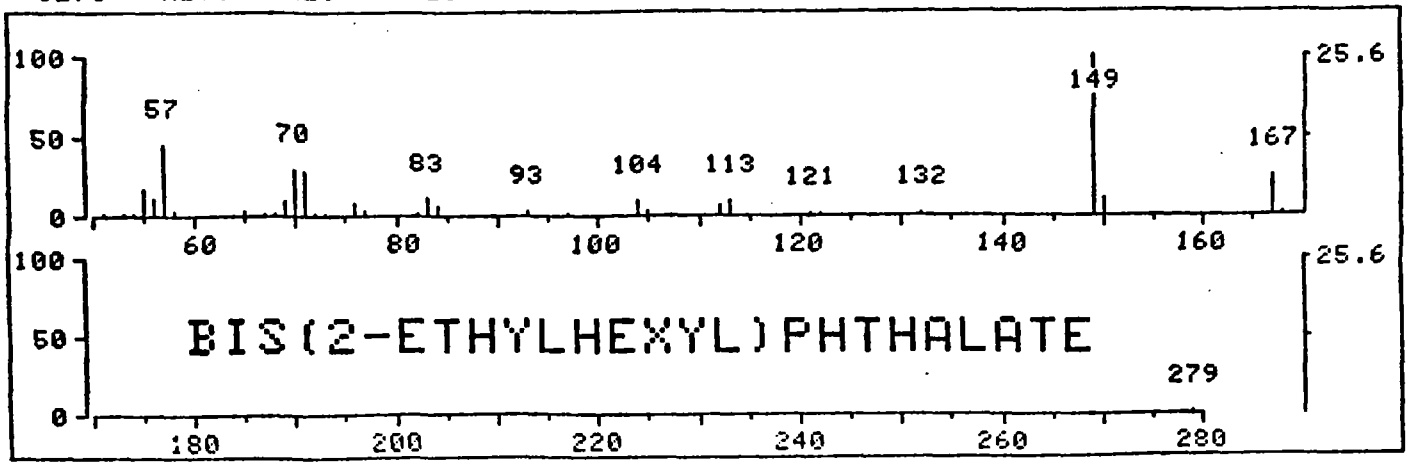
#1282 RET. TIME: 27.32 TOT ABUND= 924. BASE PK/ABUND: 149.1/ 174.



80BN
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (111 SCANS, 2.02 MINS)
FRN 14749, BRN 7
↱× 1.0 MASS RANGE: 44.0, 390.0 TOTAL ABUND= 6558725.

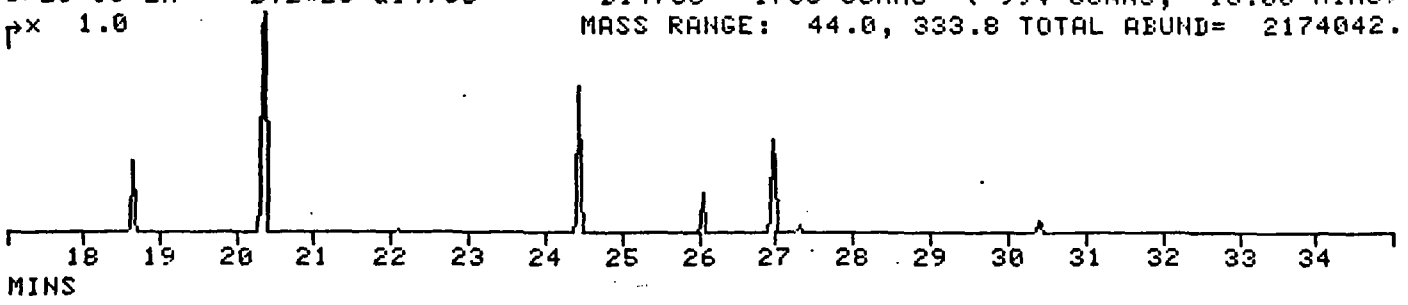


#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.

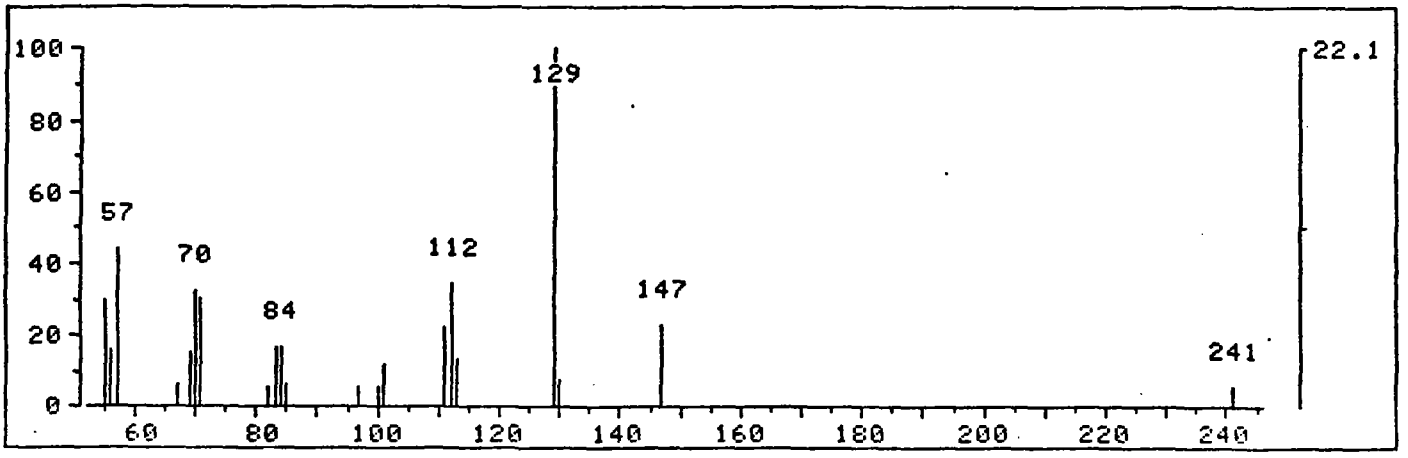


II 274

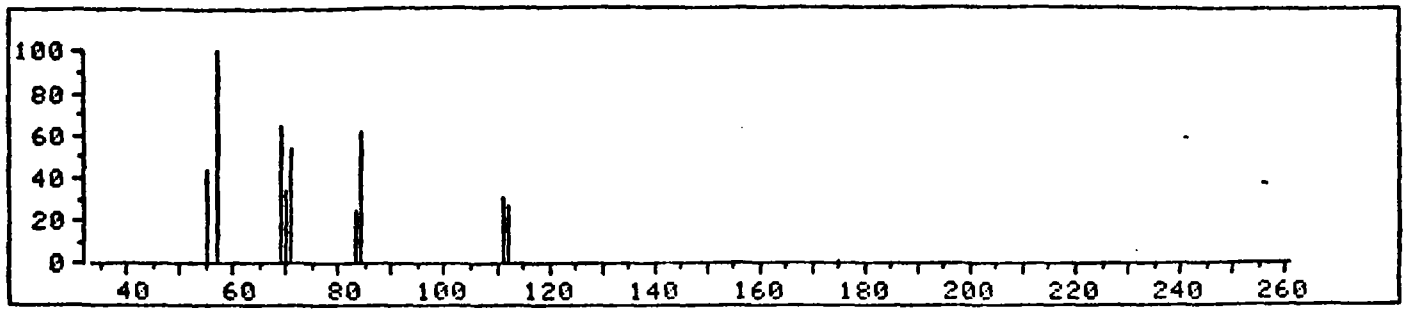
43222 AB032 CASE 3969
3/25/85/EM BTL#25 Q14766 D14766 1706 SCANS (994 SCANS, 18.00 MINS)
FRN 14766, CRN 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 2174042.



#1212 RET. TIME: 26.05 TOT ABUND= 4528. BASE PK/ABUND: 129.1/ 1002.



9 LFRN 3005 SPECT 2088 MW= 174 C10H2202
.8627 Ethanol, 2-(octyloxy)- (8CI9CI)



III 275

AREA TABLE ENTRIES: FRN 14766

Entry	Time	Mass	Area	%
1	27.0	239.7	17017.	100.0
2	26.0	TI	16460.	96.7

CALCULATE % ON ENTRY #:

Date 4/1/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

Case # 3969

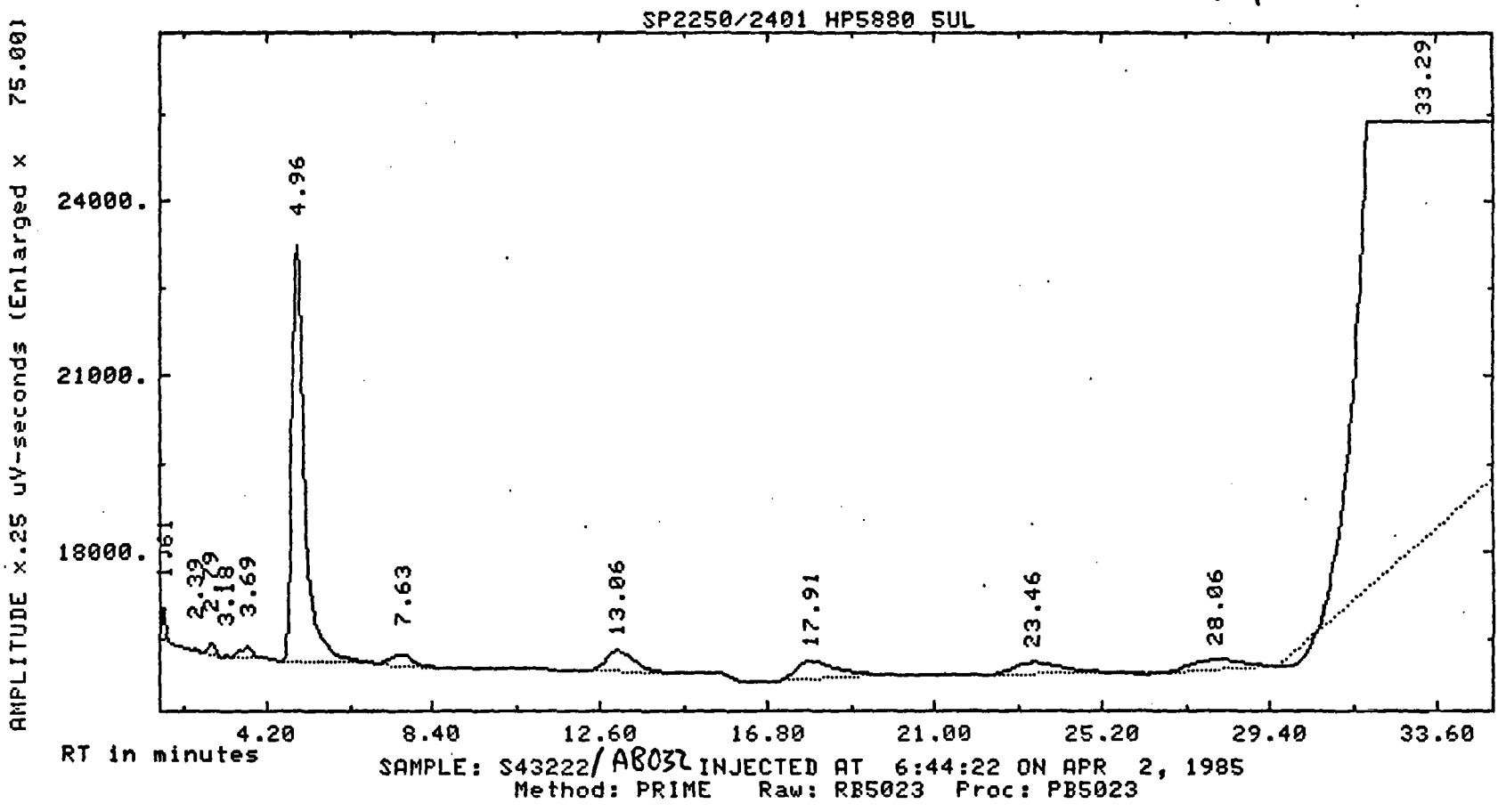
Sample I.D. 43222/AB032 HP 5880
Run # 23 Bottle # 23

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
3.18	Heptachlor	0.124	< 5.0 x	10 ÷ 1000 =	<0.05	
7.63	Endo I	3.48	<5.0 x	10 ÷ 1000 =	<0.05	
	DBC obscured by peak at 33 min					

GCA CORPORATION
Technology Division

Case 3969

8L2 III



*LI,P,PB5023

Case 3969

PROCESSED DATA FILE: PB5023 ON CRN 21

APR 2, 1985 9:17:47

REPORT: 166 CHANNEL: 2 # PEAKS: -13 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.45	0.00	1.00000	230	BV	.008	
2	1.61	0.00	1.00000	2007	VB	.072	
3	2.39	0.00	1.00000	116	BB	.004	
4	2.79	0.00	1.00000	1080	BV	.039	
5	3.18	0.00	1.00000	124	VB	.004	
6	3.69	0.00	1.00000	1733	BB	.062	
7	4.96	0.00	1.00000	78066	BB	2.785	
8	7.63	0.00	1.00000	3475	BB	.124	
9	13.06	0.00	1.00000	8389	BB	.299	
10	17.91	0.00	1.00000	10381	BB	.370	
11	23.46	0.00	1.00000	8108	BB	.289	
12	28.06	0.00	1.00000	7447	BB	.266	
13	33.29	0.00	1.00000	2681686	BF	95.677	

TOTAL AREA = 2802844 TOTAL AREA % = 100.000

SAMPLE: S43222/AB032 INJECTED AT 6:44:22 ON APR 2, 1985

ZERO METHOD: PRIME SEQ: SM03A SUBSQ/SAMP: 1 / 23 BTL: 23

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	YES

ACTUAL RUN TIME: 40.017 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: RB5023 PARAM FILES= METHOD: SEQ:

DONE
READY

ORGANICS TRAFFIC REPORT

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:
GCA
213 Burlington Rd
Bedford, MA 01730
Attn: Gary Hunt

Transfer Ship To:

⑤ Regional Office: I

Sampling Personnel:
John Williams (Name)
(617) 742-5151 (Phone)

Sampling Date:
(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	80 oz
Water (VOA)	2	40 ml
Soil/Sediment (Extractable)		
Soil/Sediment (VOA)		
Other		

⑦ Shipping Information
Hand Carried
Name of Carrier

Date Shipped:

Airbill Number:

⑪ Analysis Lab:
Rec'd by: K. Thomas
Date Rec'd: 3/1/95
Sample Condition on Receipt (e.g., broken, ice, Chain-of-Custody, etc.)

The extractables were not present as was indicated on summary chain-of-custody. only the vials were received. No sample tags.

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

LABFILECOPY

Laboratory Name:	GCA	Case No	3969
Lab Sample ID No.	43237	QC Report No	3969
Sample Matrix:	Water	Contract No	68-01-6767
Release Authorized By		Date Sample Received	3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/5/85

Conc/Dil Factor: 1 pH NA

Percent Moisture: NA

Percent Moisture (Decanted): NA

[illegible] 5/3/85 R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	10 R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	*

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. [illegible] definition of each flag must be explicit.

* See narrative

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero [illegible]

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

III 281

AB-033

Environmental Protection Agency, CLP Sample Management Office
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

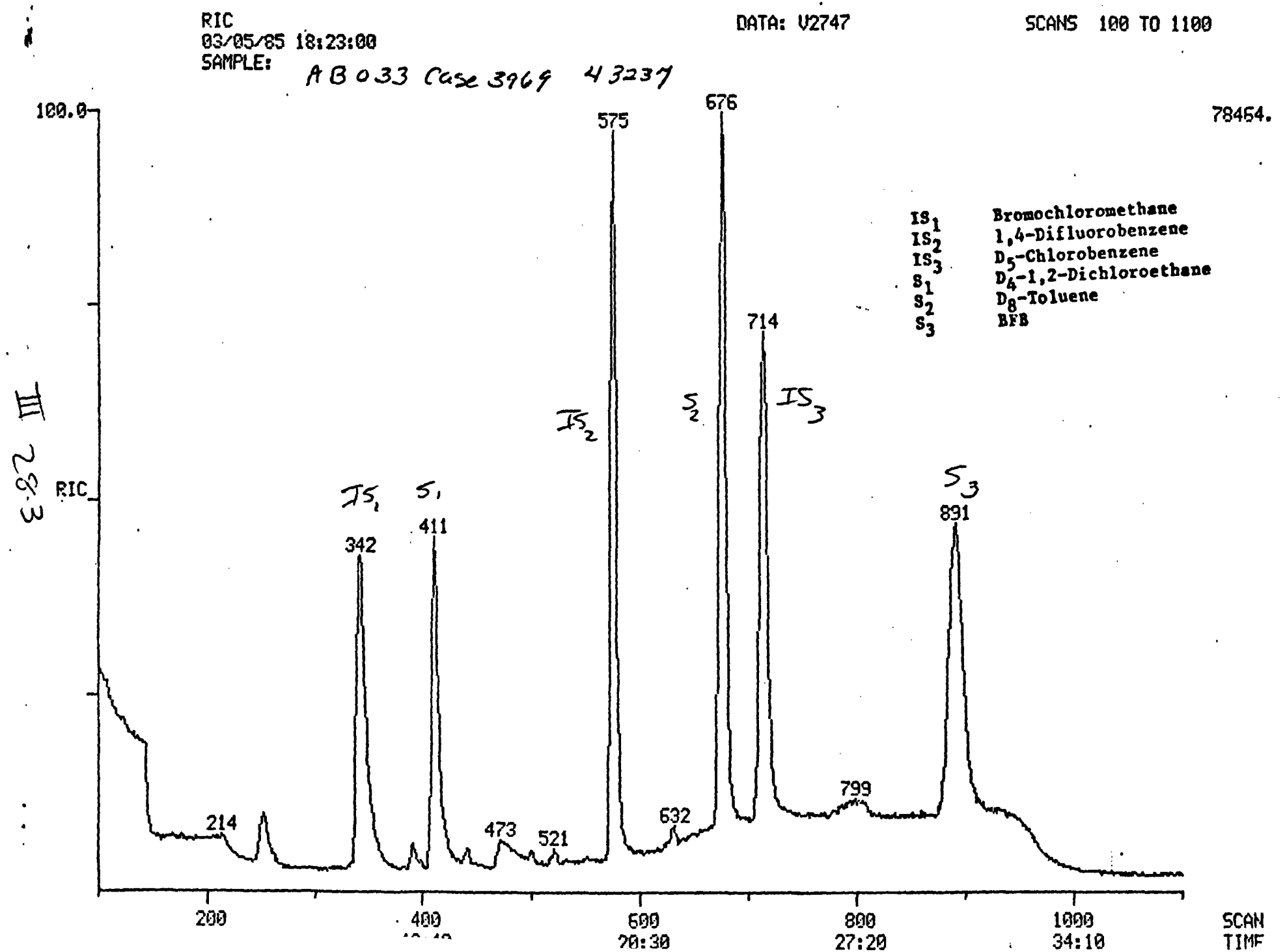
Sample Number
AB033

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Compounds found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

III 282


RIC
03/05/85 18:23:00
SAMPLE: AB033 Case 3969 43237
DATA: V2747
SCANS 100 TO 1100
100.0
78464.
RIC
575
676
714
891
342
411
214
473
521
632
799
IS1
S1
IS2
S2
IS3
S3
IS1 Bromochloromethane
IS2 1,4-Difluorobenzene
IS3 D5-Chlorobenzene
S1 D4-1,2-Dichloroethane
S2 D8-Toluene
S3 BFB
200
400
600
800
1000
20:30
27:20
34:10
SCAN
TIME

QUANTITATION REPORT FILE: M2

DATA: V2747.TI
03/05/85 18:23:00 AB-033 CGX 3969
SAMPLE:
SUBMITTED BY: ANALYST:

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

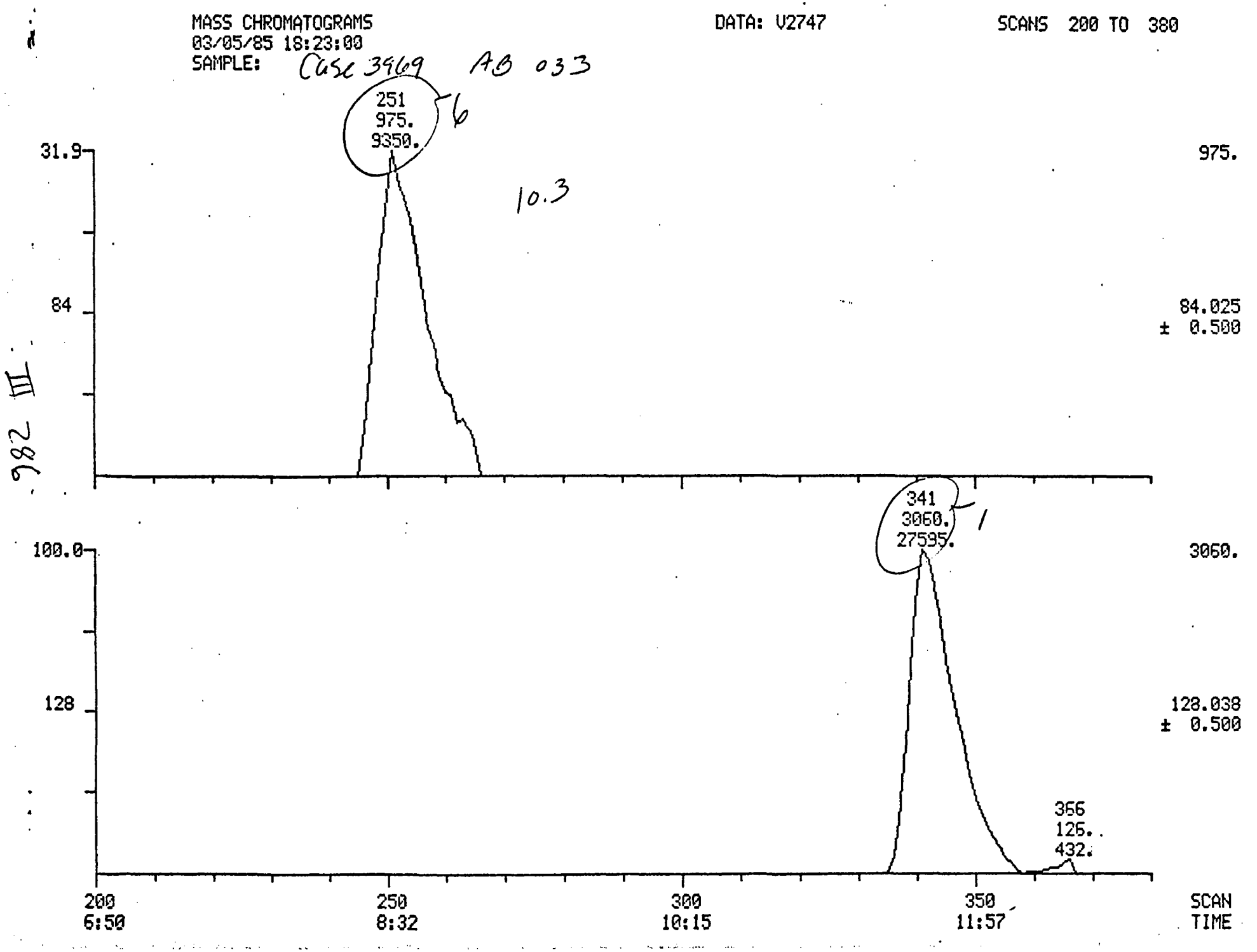
NO	NAME
1	BROMOCHLOROMETHANE(I.S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS 1,2-DICHLOROETHENE
12	CHLOROFORM
13	1,2-DICHLOROETHANE
14	D4-1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	1,4-DIFLUROBENZENE(I.S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS 1,3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	BENZENE
27	CIS-1,3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I.S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1,1,2,2,TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

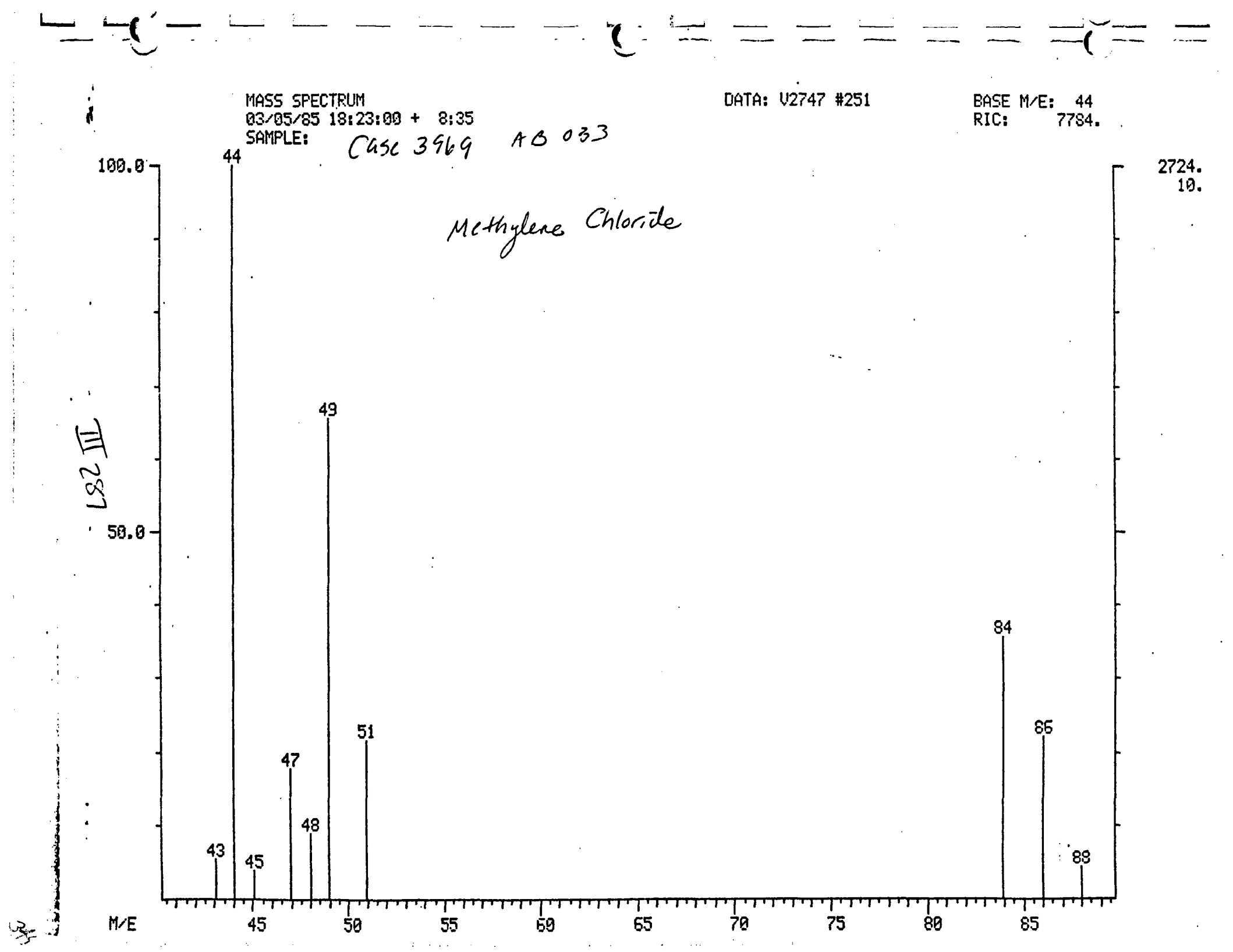
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	341	11:39	1	1.000	A BB	27534.	50.000 UG/L	11.37
2	NOT FOUND								
3	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	65	411	14:03	1	1.205	A BB	96644.	96.810 %REC	22.02
15	NOT FOUND								
16	114	575	19:39	16	1.000	A BB	133362.	50.000 UG/L	11.37
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	98	676	23:06	16	1.176	A BB	151394.	93.366 %REC	21.24
30	NOT FOUND								
31	117	713	24:22	31	1.000	A BB	92414.	50.000 UG/L	11.37
32	43	629	21:29	31	0.882	A BB	1614.	1.284 UG/L	0.29
33	NOT FOUND								
34	164	631	21:34	31	0.885	A BB	708.	0.851 UG/L	0.19
35	83	632	21:36	31	0.886	A BB	106.	0.119 UG/L	0.03
36	92	682	23:18	31	0.957	A BB	1683.	0.799 UG/L	0.18
37	112	717	24:30	31	1.006	A BB	1376.	0.656 UG/L	0.15
38	NOT FOUND								
39	95	891	30:27	31	1.250	A BB	79069.	95.790 %REC	21.79
40	NOT FOUND								
41	NOT FOUND								

10-033 Cat 3969 3/5/85

III 285

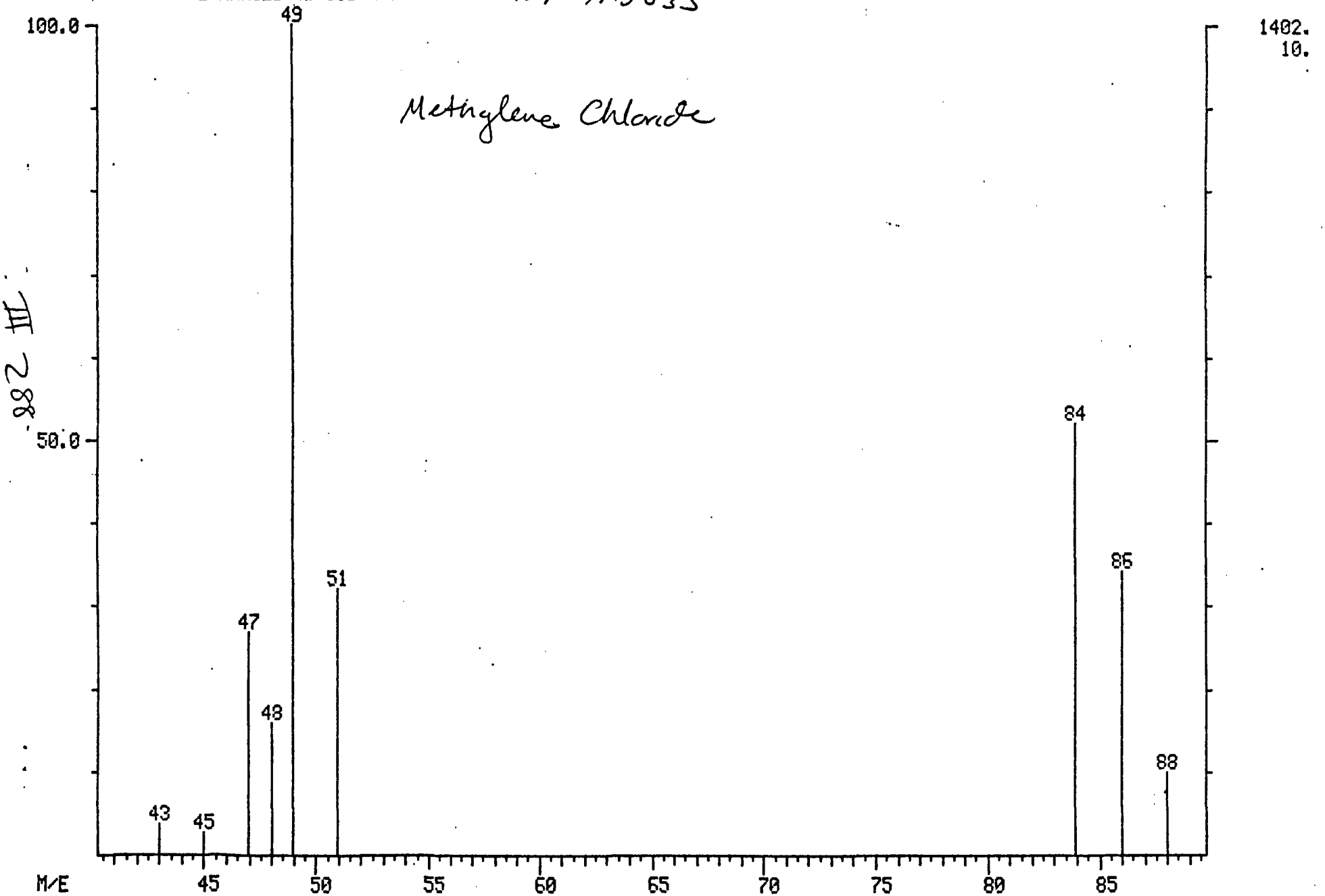

MASS CHROMATOGRAMS
03/05/85 18:23:00
SAMPLE: Case 3969 AB 033
DATA: V2747
SCANS 200 TO 380
251
975.
9350.
6
10.3
31.9
975.
84
84.025
± 0.500
982 III
341
3060.
27595.
1
100.0
3060.
128
128.038
± 0.500
366
126.
432.
200
6:50
250
8:32
300
10:15
350
11:57
SCAN
TIME


MASS SPECTRUM
03/05/85 18:23:00 + 8:35
SAMPLE: Case 3969 AB 033
DATA: V2747 #251
BASE M/E: 44
RIC: 7784.
Methylene Chloride
LS2 III
100.0
50.0
2724.
10.
44
49
51
47
48
43
45
84
86
88
M/E
45
50
55
60
65
70
75
80
85

MASS SPECTRUM
03/05/85 18:23:00 + 8:35
SAMPLE:
ENHANCED (S 15B 2N) Case 3969 AB033

DATA: V2747 #251

BASE M/E: 49
RIC: 3300.



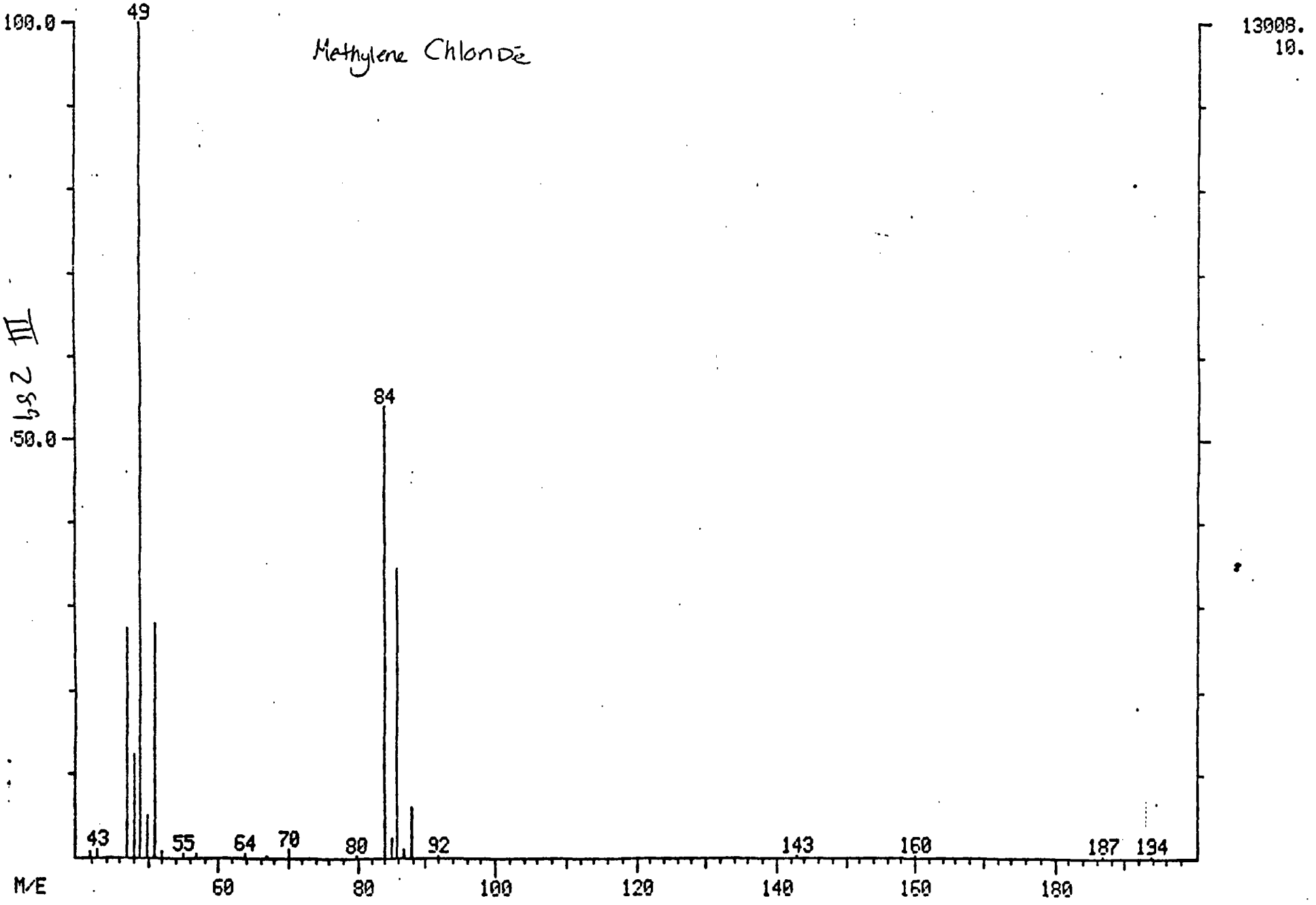
Methylene Chloride

288 III

MASS SPECTRUM
03/03/85 12:41:00 + S:28
SAMPLE:
ENHANCED (S 15B 2N)

DATA: V2708 #248

BASE M/E: 49
RIC: 36224.



ORGANICS ANALYSIS REPORT

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

④ Ship To:
GCA
213 Burlington Rd
Bedford, MA 01730
Attn: Gary Hunt
Transfer
Ship To:

⑤ Regional Office: F
Sampling Personnel:
John Williams
(Name)
(617) 743-5151
(Phone)
Sampling Date:
(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	80.0ℓ	No sample tags
Water (VOA)	2	40 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑦ Shipping Information
Hand-Carried
Name of Carrier
Date Shipped:
Airbill Number:

⑪ Analysis Lab:
Rec'd by: N. Lenna
Date Rec'd: 3/1/85
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

⑧ Sample Description
___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) ___

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MAA020

LAB FILE COPY

III 290

AB 634

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: GCA
Lab Sample ID No: 43238
Sample Matrix: water
Data Release Authorized By:

Case No: 3969
QC Report No: 3969
Contract No: 68-01-6767
Date Sample Received: 3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3/5/85
Date Analyzed: 3/5/85
Conc/Dil Factor: 1 pH: NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

Elmm 5/2/85 R-Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	10 R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	*

Data Reporting Qualifiers

[illegible]

* See narrative

Value — If the result is a value greater than or equal to the detection limit, report the value [illegible]

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. [illegible] Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound [illegible]

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

4/84

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB034

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0 l → 1.0 ml

ETMM SAS R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1 2-Dichlorobenzene	10u
95-48-7	2 Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67 9	2 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4 Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88 74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthone	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100 01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	8 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70 3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 034

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 4/1/85

Conc/Dil Factor: 1

ETmm 5/15/85

NA = Not Analyzed

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4, 4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4, 4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

J.H. Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ml V_i 5.0 ml

III 293

AA 034

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO Compounds found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

III 294

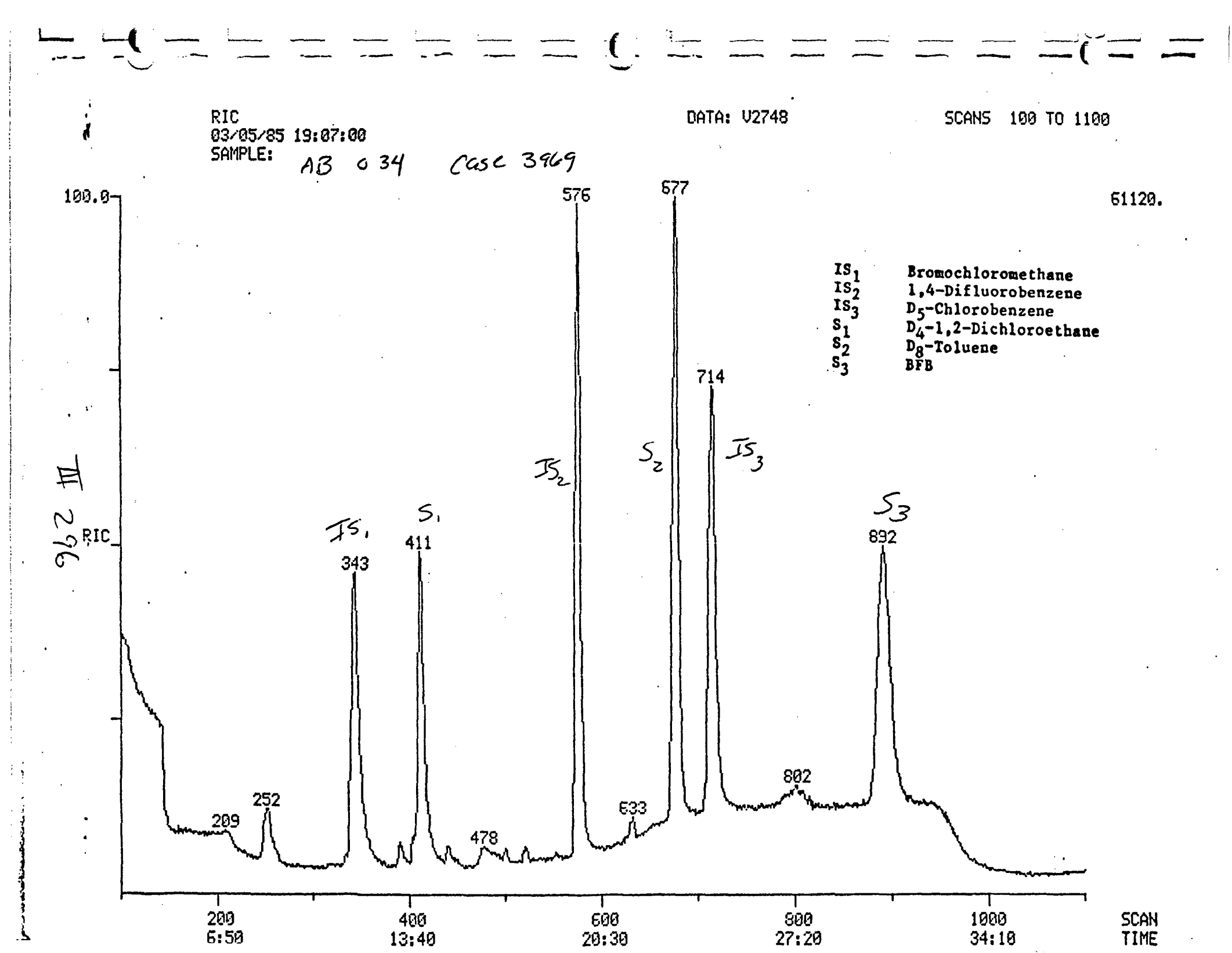
Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703-557-2490

Sample Number
AB 034

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	BN/A	26.0	102 J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


RIC
03/05/85 19:07:00
SAMPLE: AB 034 Case 3969
DATA: V2748
SCANS 100 TO 1100
100.0
61120.
RIC
962 III
IS1
S1
IS2
S2
IS3
S3
343
411
576
677
714
892
209
252
478
633
802
IS1 Bromochloromethane
IS2 1,4-Difluorobenzene
IS3 D5-Chlorobenzene
S1 D4-1,2-Dichloroethane
S2 D8-Toluene
S3 BFB
200
6:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

AB 034 (45) 3964

DATA: V2748.TI
3/05/85 19:07:00
AMPLE:
SUBMITTED BY: ANALYST:

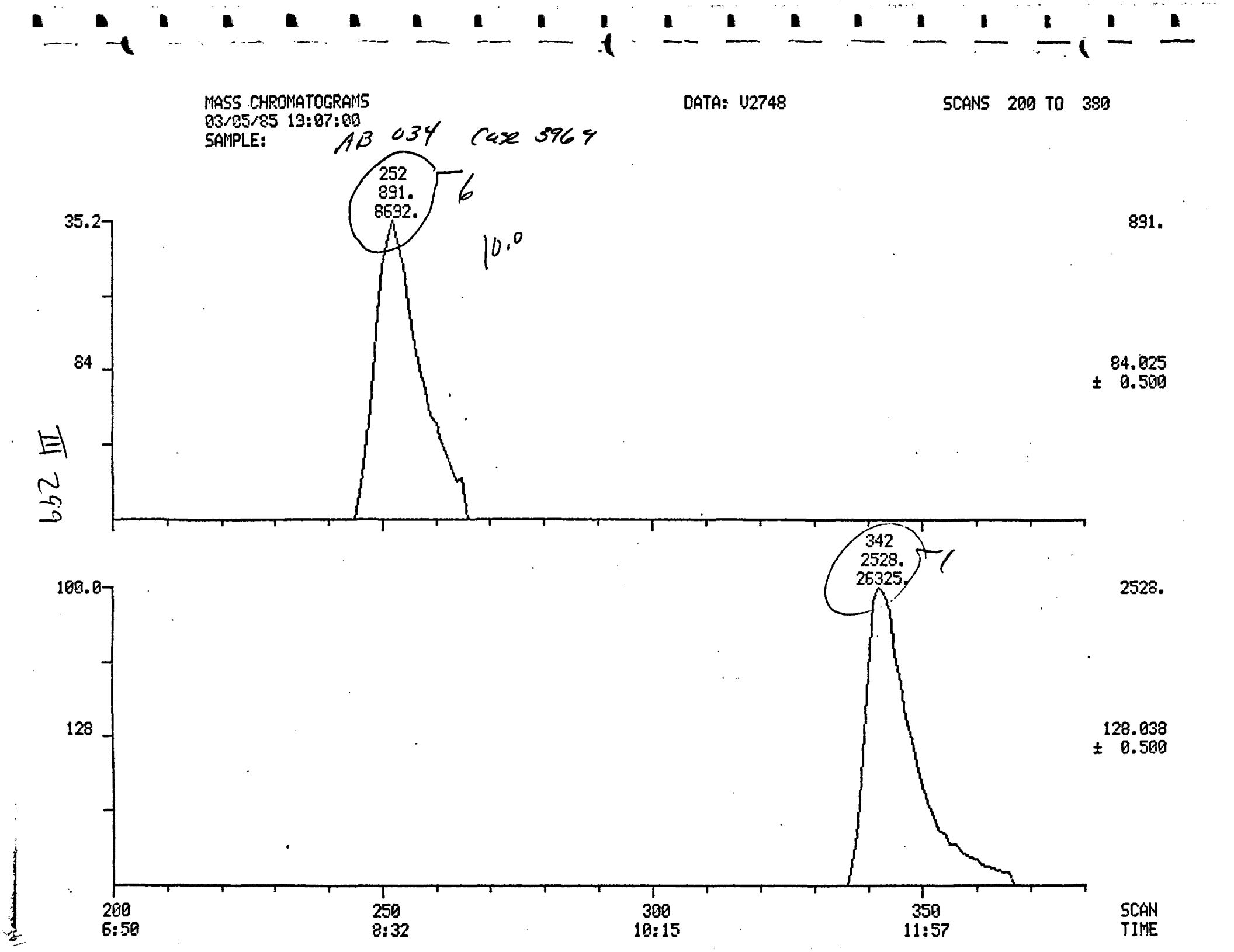
MOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
ESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	BROMOCHLOROMETHANE(I. S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1, 1-DICHLOROETHENE
10	1, 1-DICHLOROETHANE
11	TRANS 1, 2-DICHLOROETHENE
12	CHLOROFORM
13	1, 2-DICHLOROETHANE
14	D4-1, 2-DICHLOROETHANE
15	1, 1, 1-TRICHLOROETHANE
16	1, 4-DIFLUROBENZENE(I. S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1, 2-DICHLOROPROPANE
22	TRANS 1, 3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1, 1, 2-TRICHLOROETHANE
26	BENZENE
27	CIS-1, 3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I. S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1, 1, 2, 2, TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	342	11:41	1	1.000	A BB	26325.	50.000 UG/L	11.69
2	NOT FOUND								
3	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	65	411	14:03	1	1.202	A BB	82381.	86.314	%REC	20.17
15	NOT FOUND									
16	114	576	19:41	16	1.000	A BB	104202.	50.000	UG/L	11.69
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	98	676	23:06	16	1.174	A BB	116835.	92.217	%REC	21.55
30	NOT FOUND									
31	117	714	24:24	31	1.000	A BB	70865.	50.000	UG/L	11.69
32	43	629	21:29	31	0.881	A BB	1287.	1.334	UG/L	0.31
33	NOT FOUND									
34	164	631	21:34	31	0.884	A BB	576.	0.903	UG/L	0.21
35	83	633	21:38	31	0.887	A BB	112.	0.164	UG/L	0.04
36	92	683	23:20	31	0.957	A BB	1790.	1.108	UG/L	0.26
37	112	719	24:34	31	1.007	A BB	1268.	0.788	UG/L	0.18
38	NOT FOUND									
39	95	891	30:27	31	1.248	A BB	60140.	95.013	%REC	22.21
40	NOT FOUND									
41	NOT FOUND									

AB -034 Case 3969 3/5/85

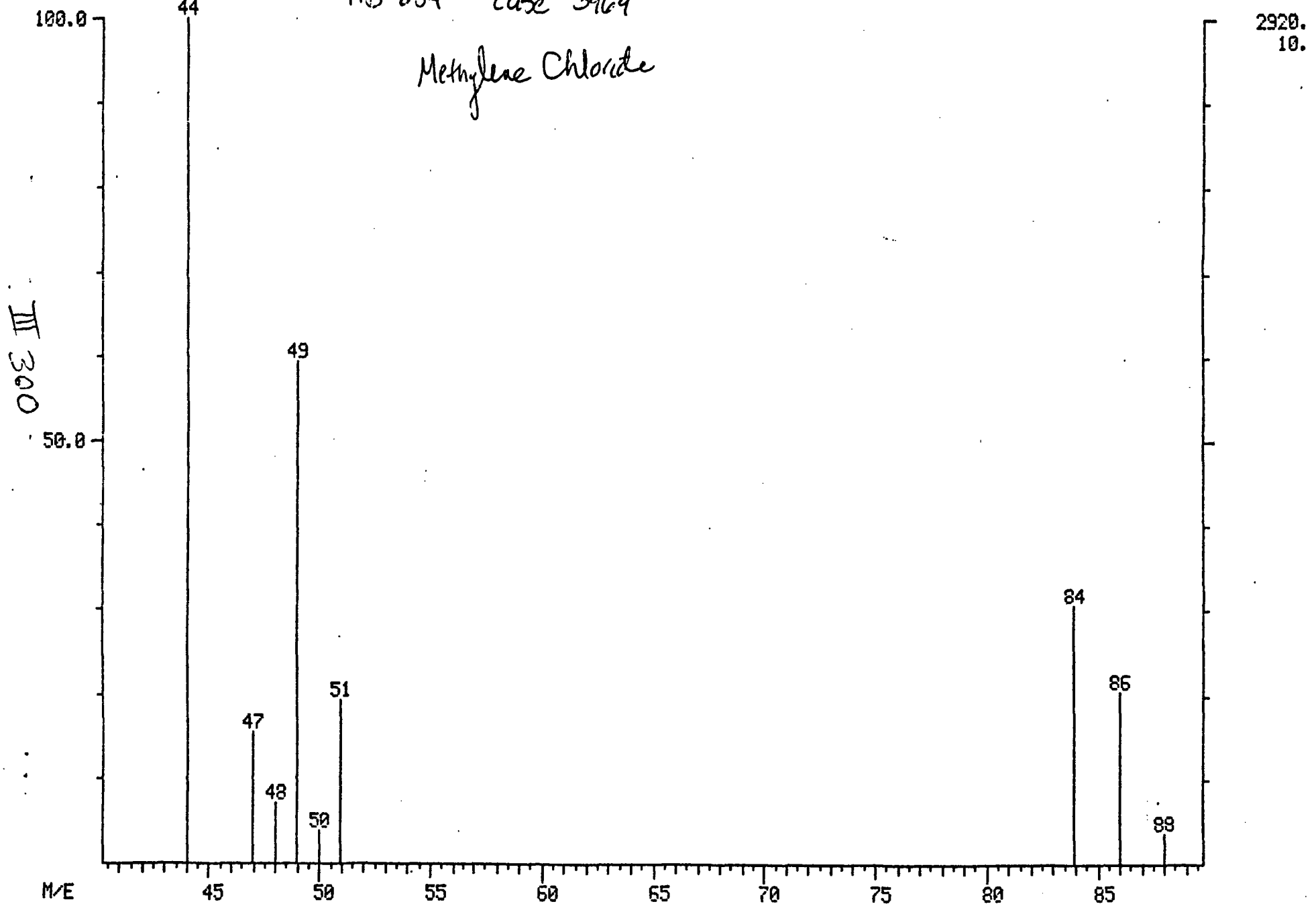

MASS CHROMATOGRAMS
03/05/85 19:07:00
SAMPLE: AB 034 Case 3964
DATA: V2748
SCANS 200 TO 380
252
891.
8632.
6
10.0
35.2
84
891.
84.025
± 0.500
662 III
342
2528.
26325.
1
100.0
128
2528.
128.038
± 0.500
200
6:50
250
8:32
300
10:15
350
11:57
SCAN
TIME

MASS SPECTRUM
03/05/85 19:07:00 + 8:37
SAMPLE: AB 034 Case 3969

DATA: U2748 #252

BASE M/E: 44
RIC: 7592.

Methylene Chloride

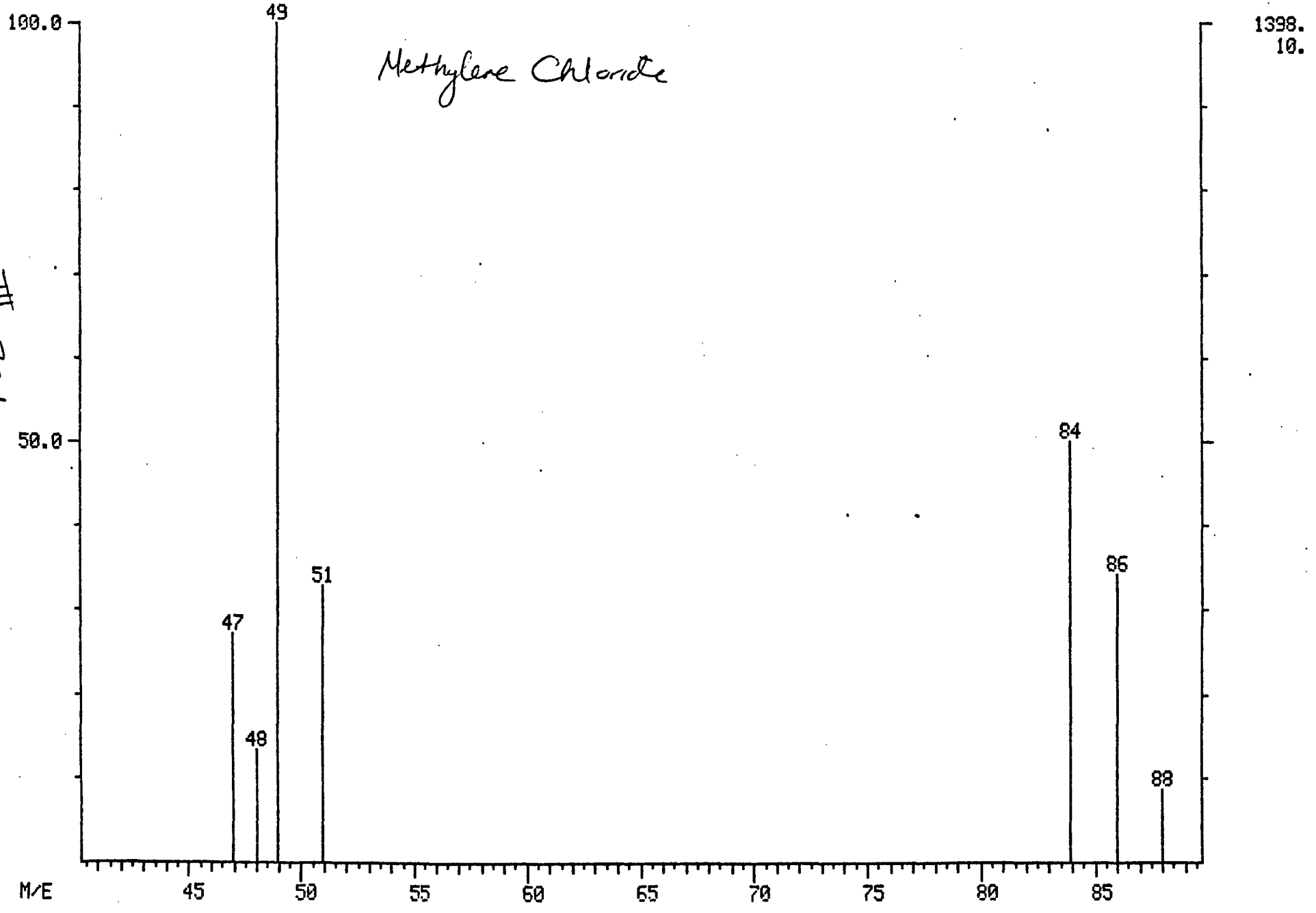


III 300

MASS SPECTRUM
03/05/85 19:07:00 + 8:37
SAMPLE:
ENHANCED (S 15B 2N) AB 034 Case 3969

DATA: V2748 #252

BASE M/E: 49
RIC: 3728.



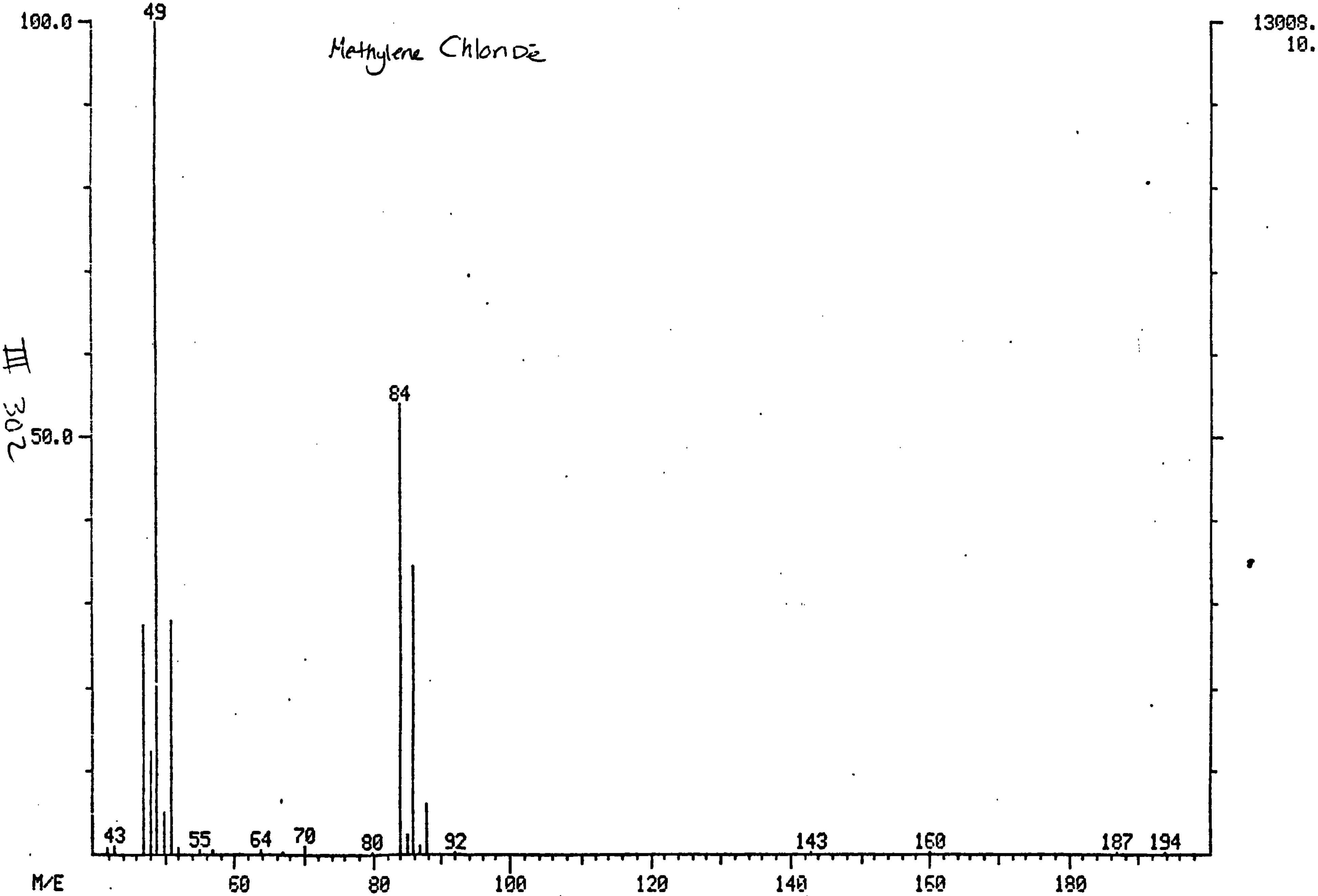
Methylene Chloride

III 301

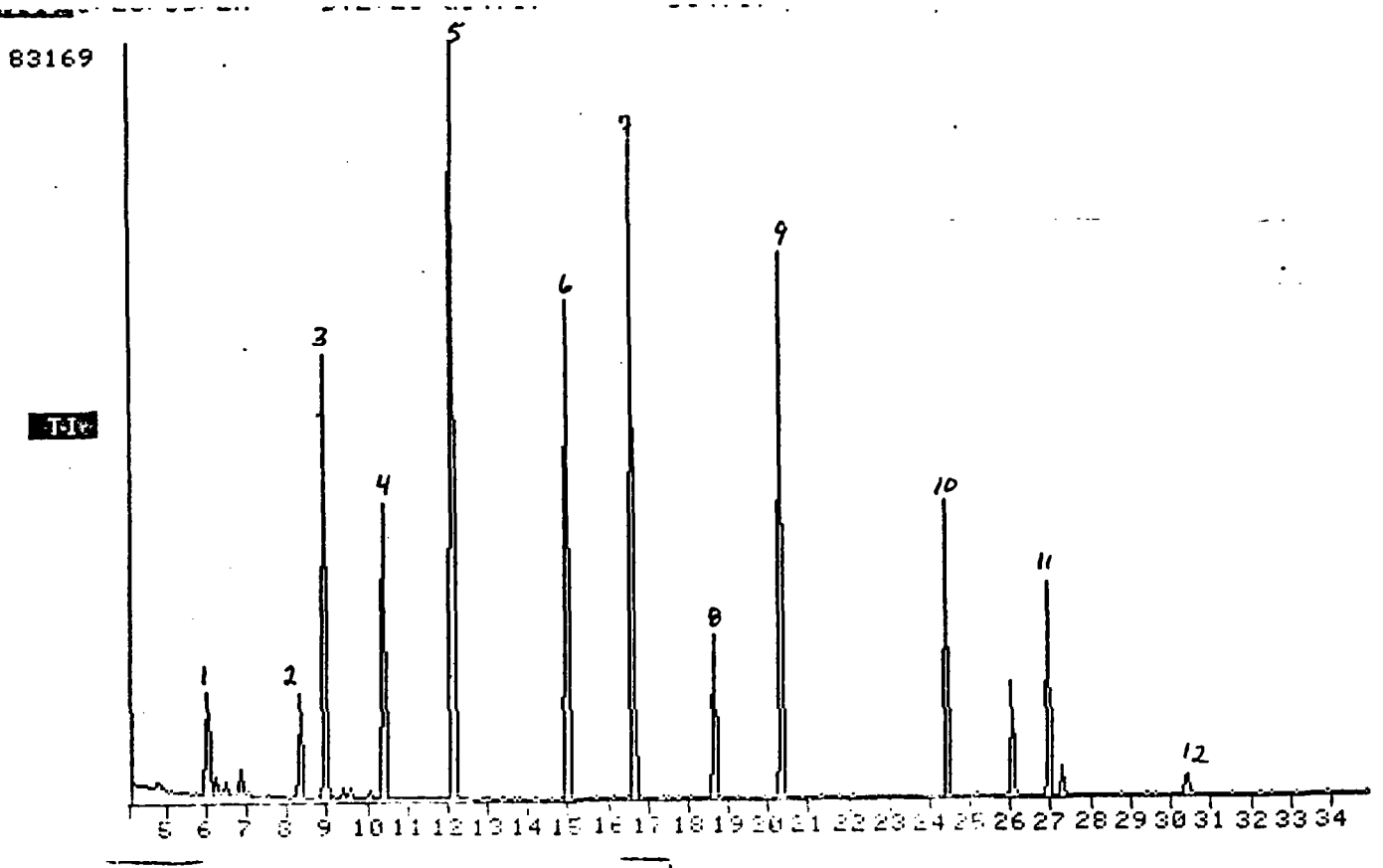
MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE: case 3969 100 ppb
ENHANCED (S 15B 2N)

DATA: V2708 #248

BASE M/E: 49
RIC: 36224.



III 302



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

III 303

FILE NUMBER 14767

43223 AB034 CASE 3969

3/25/85/EM BTL#26 Q14767 D14767

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
9.9	74.0	.046	.0000	N-NITROSODIMETHYLAMINE			
8.4	93.0	.913	.0000	ANILINE			
8.5	93.0	.709	.0000	BIS(2-CHLOROETHYL)ETHER			
8.9	146.0	.591	.0000	1,3-DICHLOROBENZENE			
9.0	146.0	.594	.0000	1,4-DICHLOROBENZENE			
9.5	108.0	.395	.0000	BENZYL ALCOHOL			
9.5	146.0	.594	.0000	1,2-DICHLOROBENZENE			
9.9	45.0	.527	.0000	BIS(2-CHLOROISOPROPYL)ETHER			
10.2	70.0	.490	.0000	N-NITROSODINPROPYLAMINE			
10.2	117.0	.291	.0000	HEXACHLOROETHANE			
10.5	77.0	.716	.0000	NITROBENZENE			
12.2	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.1	138.0	1.519	.0000	ISOPHORONE			
11.8	95.0	1.813	.0000	BIS(2-CHLOROETHOXY)METHANE			
12.1	180.0	2.642	.0000	1,2,4-TRICHLOROBENZENE			
12.2	129.0	1.325	.0000	NAPHTHALENE			
12.5	127.0	4.577	.0000	4-CHLOROANILINE			
12.7	225.0	1.190	.0000	HEXACHLOROBUTADIENE			
14.0	115.0	2.578	.0000	2-METHYLNAPHTHALENE			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE			
14.6	237.0	.205	.0000	HEXACHLOROCYCLOPENTADIENE			
15.2	164.0	.281	.0000	2-CHLORONAPTHALENE			
15.6	138.0	.397	.0000	2-NITROANILINE			
16.2	164.0	.083	.0000	DIMETHYL PHTHALATE			
16.3	151.0	.272	.0000	ACENAPHTHYLENE			
16.4	165.0	.228	.0000	2,6-DINITROTOLUENE			
16.7	138.0	.293	.0000	3-NITROANILINE			
16.8	152.0	.437	.0000	ACENAPHTHENE			
17.2	139.0	.490	.0000	DIBENZOFURAN			
17.3	165.0	.320	.0000	2,4-DINITROTOLUENE			
18.0	177.0	.171	.0000	DIETHYL PHTHALATE			
18.0	165.0	.820	.0000	FLUORENE			
18.1	204.0	.358	.0000	4-CHLOROPHENYLPHENYL ETHER			
18.2	138.0	.292	.0000	4-NITROANILINE			
17.2	169.0	.144	.0000	DIPHENYLAMINE			

III 304

FILE NUMBER 14767

43223 AB034 CASE 3969

3/25/85/EM BTL#26 Q14767 D14767

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.4	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	7.5703	BIS(2-ETHYLHEXYL)PHTHALATE			
30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	.0000	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

III 305

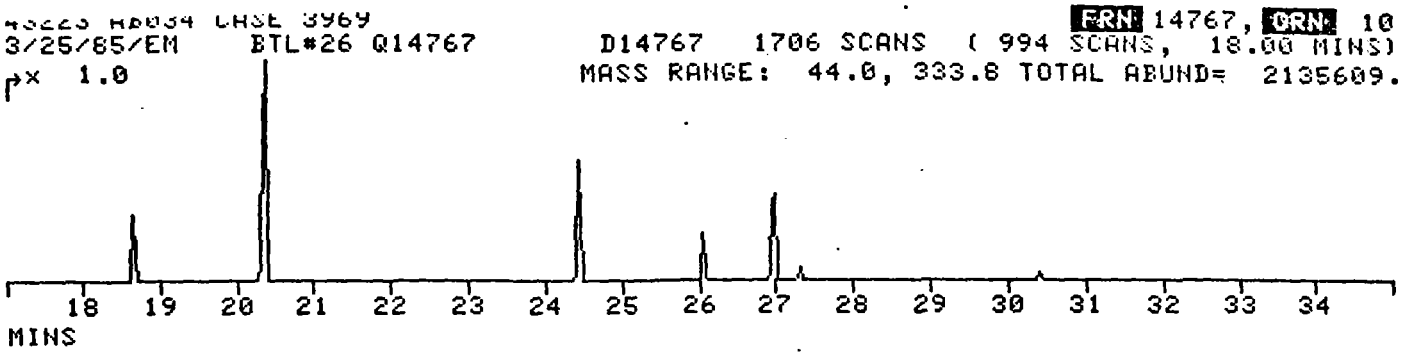
FILE NUMBER 14767

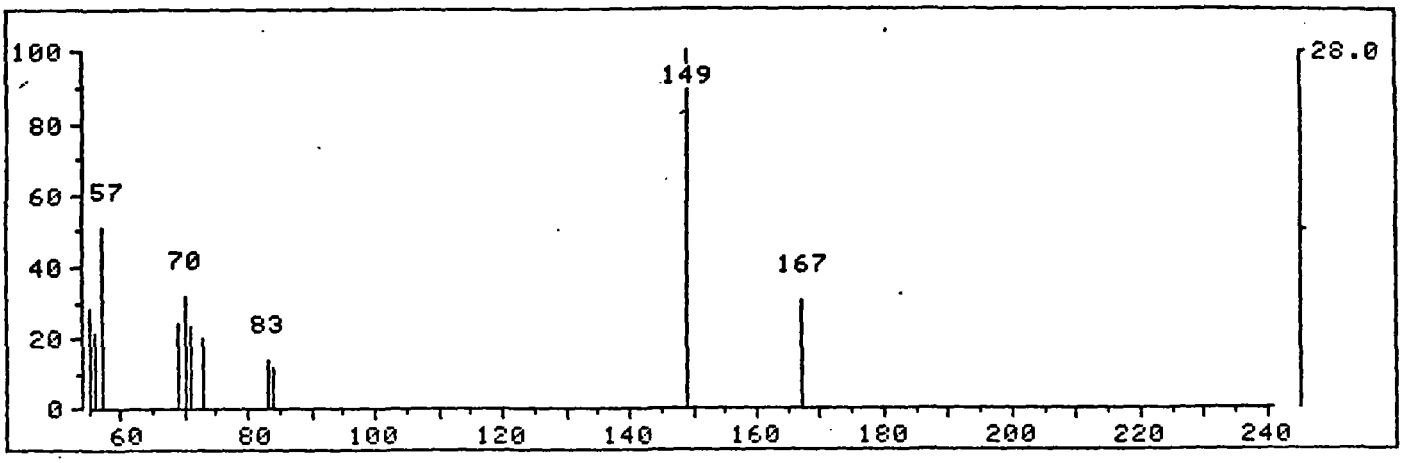
43223 AB034 CASE 3969

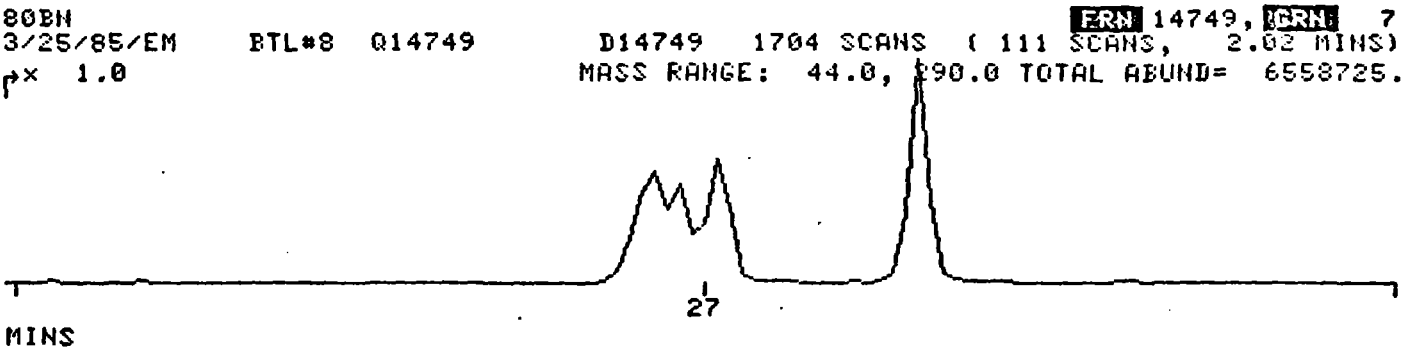
3/25/85/EM BTL#26 Q14767 D14767

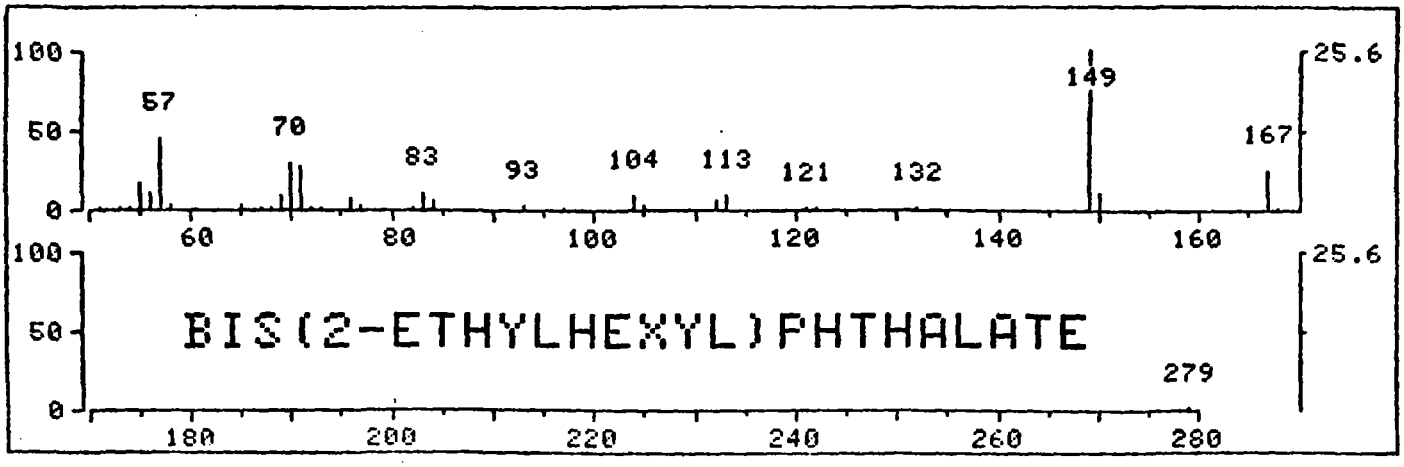
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.2	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.4	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

III 306


3/25/85/EM BTL#26 Q14767
FRN 14767, GRN 10
D14767 1706 SCANS (994 SCANS, 18.00 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 2135609.
1.0
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
MINS

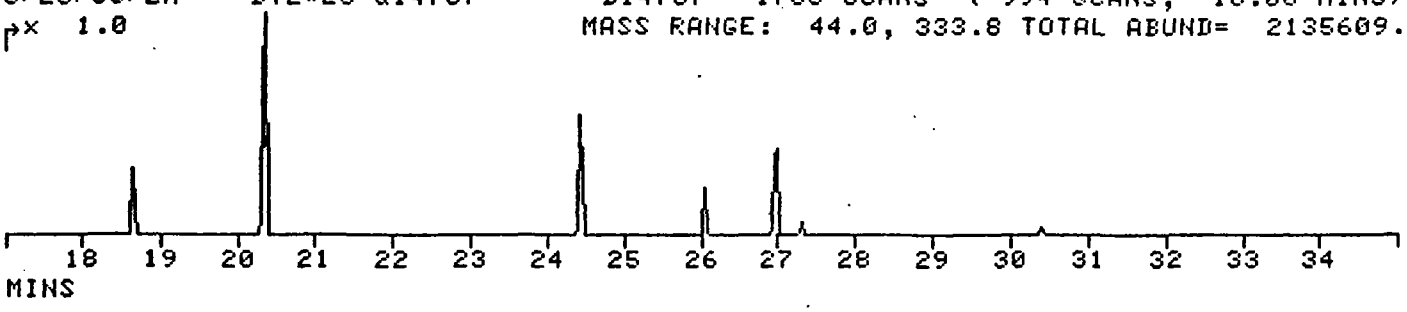

#1282 RET. TIME: 27.32 TOT ABUND= 1452. BASE PK/ABUND: 149.0/ 407.
100
80
60
40
20
0
57
70
83
149
167
28.0
60 80 100 120 140 160 180 200 220 240


80BN
3/25/85/EM BTL#8 Q14749
FRN 14749, GRN 7
D14749 1704 SCANS (111 SCANS, 2.02 MINS)
MASS RANGE: 44.0, 290.0 TOTAL ABUND= 6558725.
1.0
27
MINS

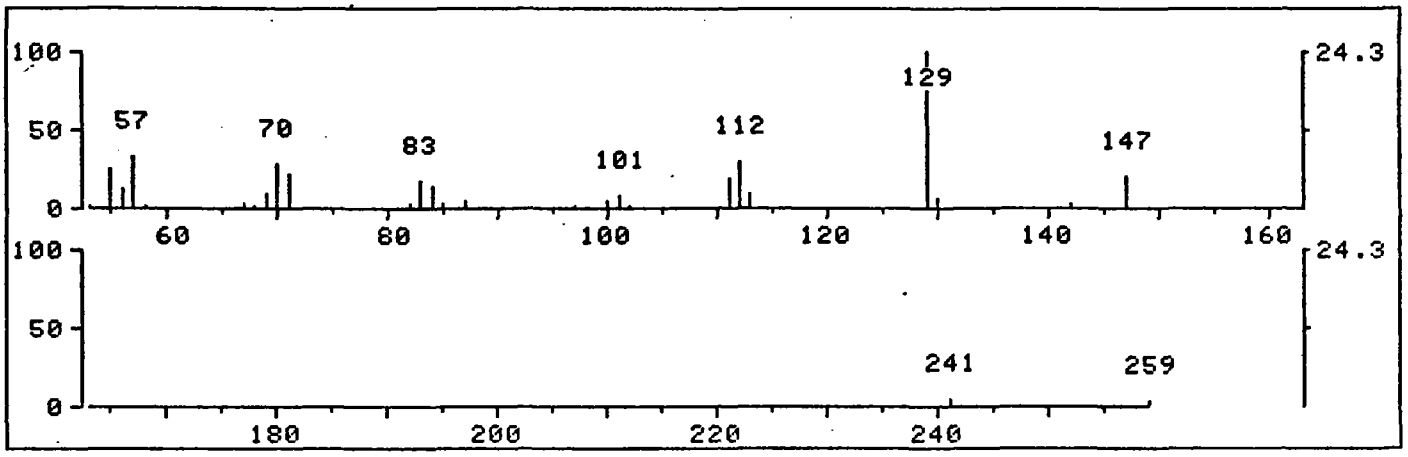

#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.
100
50
0
57
70
83
93
104
113
121
132
149
167
25.6
60 80 100 120 140 160
BIS(2-ETHYLHEXYL)PHTHALATE
279
180 200 220 240 260 280

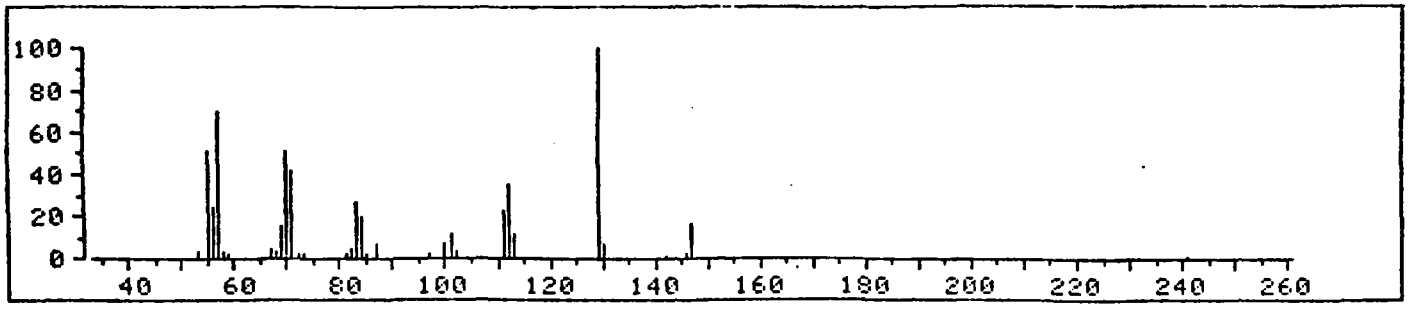
III
307

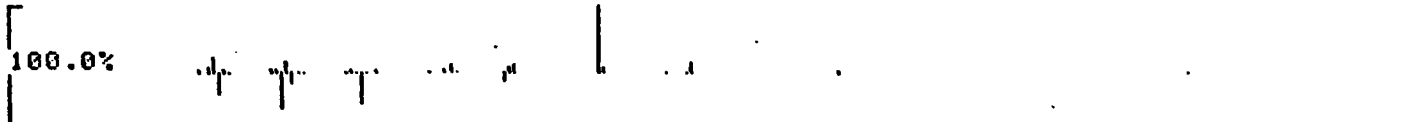
43223 AB034 CASE 3969
3/25/85/EM BTL#26 Q14767 D14767 1706 SCANS (994 SCANS, 18.00 MINS)
FRN 14767, CRN 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 2135609.



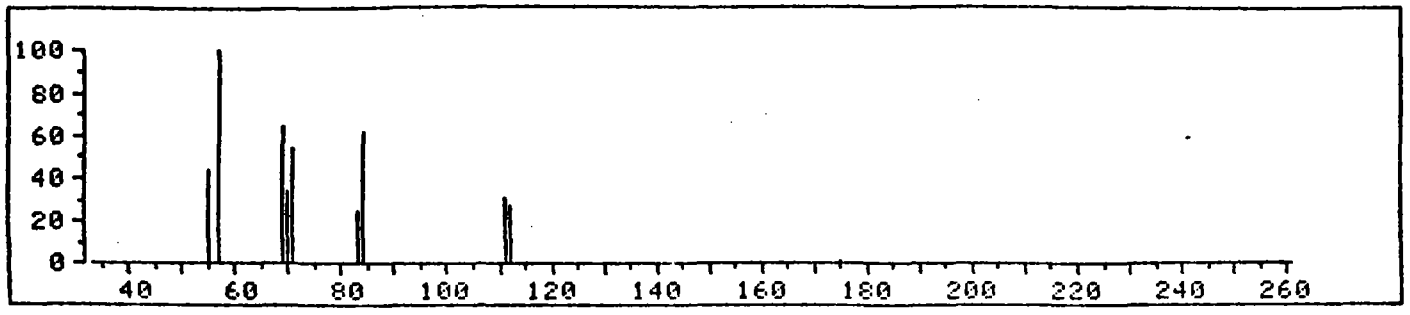
#1212 RET. TIME: 26.05 TOT ABUND= 7739. BASE PK/ABUND: 129.1/ 1883.







* 9 LFRN 3005 SPECT 2088 MW= 174 C10H2202
.8627 Ethanol, 2-(octyloxy)- (8CI9CI)



Entry	Time	Mass	Area	%
1	27.0	239.7	16430.	100.0
2	26.0	TI	20964.	127.6

CALCULATE % ON ENTRY #:

III 309

Date 4/1/85 Analyst BC Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

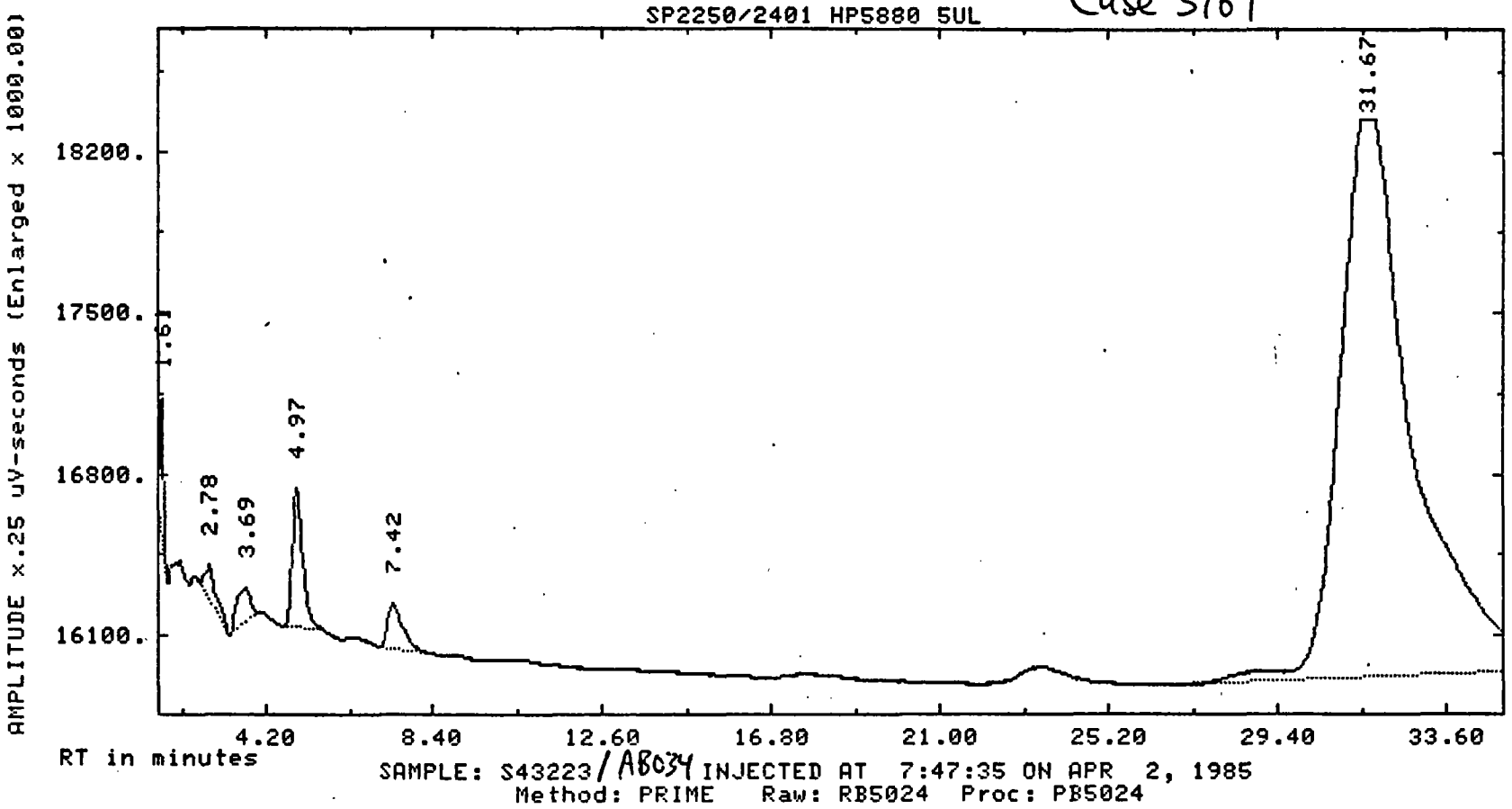
Case # 3969

Sample I.D. 43223/AB034 HP 5880
Run # 24 Bottle # 24

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted) Spiked at	% (ug/l) ppb Recovery	total ug
31.67	DBC	156.0	118 x	10 = 1180 1000	118	

GCA CORPORATION Technology Division

Case 3969



III 311

*LI,P,PB5024

Case 3969

PROCESSED DATA FILE: PB5024 ON CRN 21

APR 2, 1985 9:18:14

REPORT: 167 CHANNEL: 2 # PEAKS: -7 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.29	0.00	1.00000	145	BV	.086	
2	1.61	0.00	1.00000	1961	BB	1.158	
3	2.78	0.00	1.00000	1386	BV	.818	
4	3.69	0.00	1.00000	1727	VB	1.020	
5	4.97	0.00	1.00000	5474	BB	3.233	
6	7.42	0.00	1.00000	2628	BB	1.552	
7	31.67	0.00	1.00000	156032	BF	92.134	

TOTAL AREA = 169353 TOTAL AREA % = 100.000

SAMPLE: S43223/AB034 INJECTED AT 7:47:35 ON APR 2, 1985

ZERO METHOD: PRIME SEQ: SM03A SUBSQ/SAMP: 1 / 24 BTL: 24

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	YES

ACTUAL RUN TIME: 40.008 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: RB5024 PARAM FILES= METHOD: SEQ:

DONE
READY

ORGANICS

) Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:

GCA
213 Burlington Rd.
Bedford, Mt. 01730

Attn: Gary Hunt

Transfer Ship To:

⑤ Regional Office: I

Sampling Personnel:

John Williams
(Name)
(617) 742-5151
(Phone)

Sampling Date:

(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: M. Lynch Date Rec'd: 3/1/85 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)	2	80 oz	No sample tags
Water (VOA)	2	40 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑦ Shipping Information

Name of Carrier

Date Shipped:

Airbill Number:

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MAA019

LAB TRACK - III.313

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: GCA
Lab Sample ID No: 43239
Sample Matrix: water
Data Release Authorized By: ______

Case No: 3969
QC Report No: 3969
Contract No: 68-01-6767
Date Sample Received: 3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3/5/85
Date Analyzed: 3/5/85
Conc/Dil Factor: 1 pH: NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	7.5 R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	*

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

* See narrative

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. [illegible]

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

III 314

4/84

Environmental Protection Agency. CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB035

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low (circled) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0l → 1.0ml

ETmm 5/2/85 R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	48 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Form I

III 315

4/84

347

Environmental Protection Agency, CLP Sample Management Office
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB035

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 3/30/85

Conc/Dil Factor: 1

ETmm 5/15/85

NA = Not Analyzed

CAS Number		(ug/L or ug/Kg (Circle One))
319-84-6	Alpha-BHC	0.05U
319-85-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4,4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4,4'-DDD	0.10U
7421-93-4	Endrin Aldehyde	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4,4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor-1016	0.50U
11104-28-2	Aroclor-1221	0.50U
11141-16-5	Aroclor-1232	0.50U
53469-21-9	Aroclor-1242	0.50U
12672-29-6	Aroclor-1248	0.50U
11097-69-1	Aroclor-1254	1.0U
11096-82-5	Aroclor-1260	1.0U

JM Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ml V_i 5.0 ml

III 316

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
AB035

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

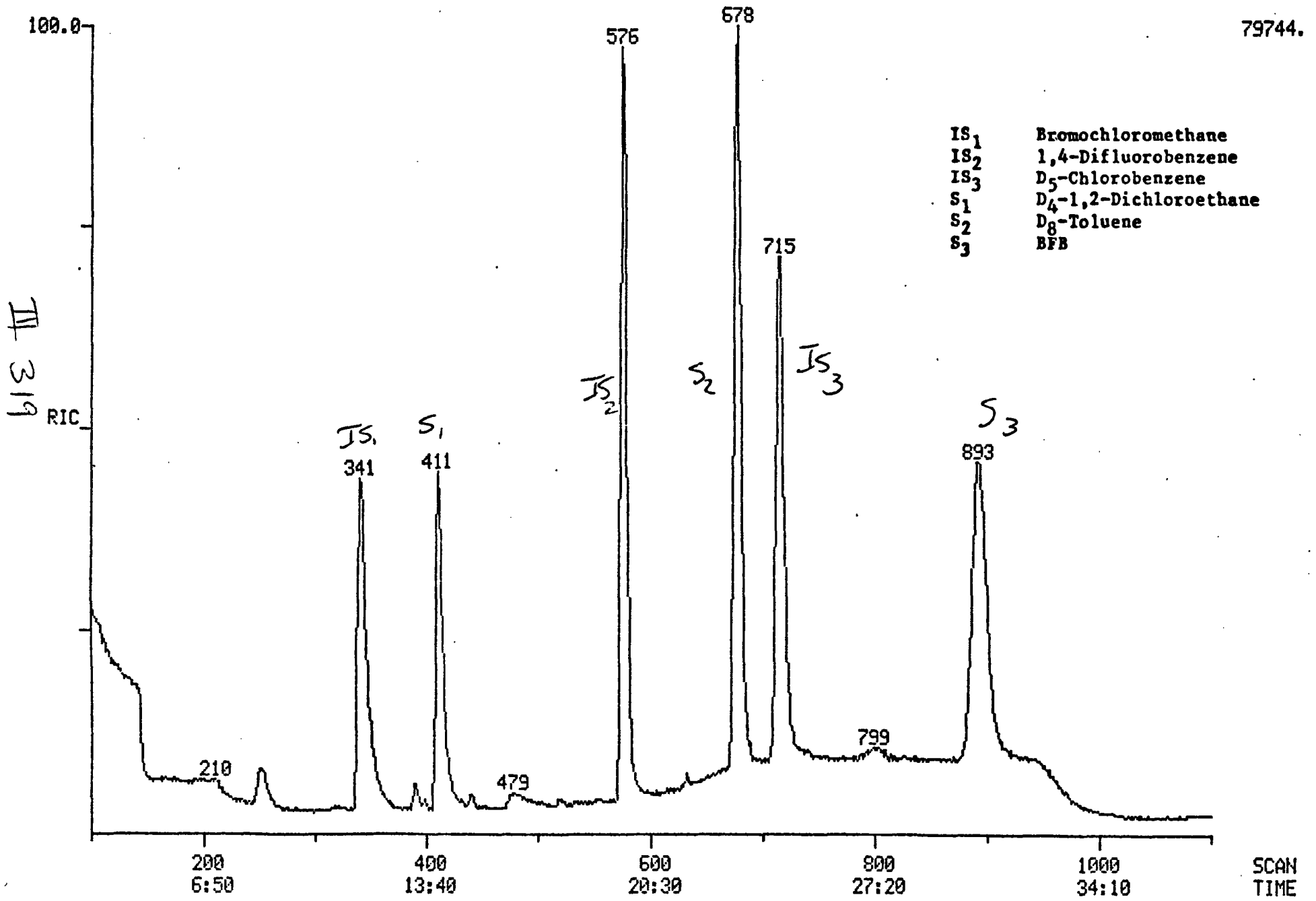
	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Compounds Found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

AB 025

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	BN/A	26.0	591 J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


RIC
03/05/85 19:50:00
SAMPLE: AB035 Case 3969
DATA: V2749
SCANS 100 TO 1100
100.0
79744.
RIC
576
678
715
341
411
479
210
799
893
IS1
S1
IS2
S2
IS3
S3
IS1 Bromochloromethane
IS2 1,4-Difluorobenzene
IS3 D5-Chlorobenzene
S1 D4-1,2-Dichloroethane
S2 D8-Toluene
S3 BFB
III 319
200
6:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

QUANTITATION REPORT FILE: M2

DATA: V2749.TI
03/05/85 19:50:00 AB 035 Case 3969
SAMPLE:
SUBMITTED BY: ANALYST:

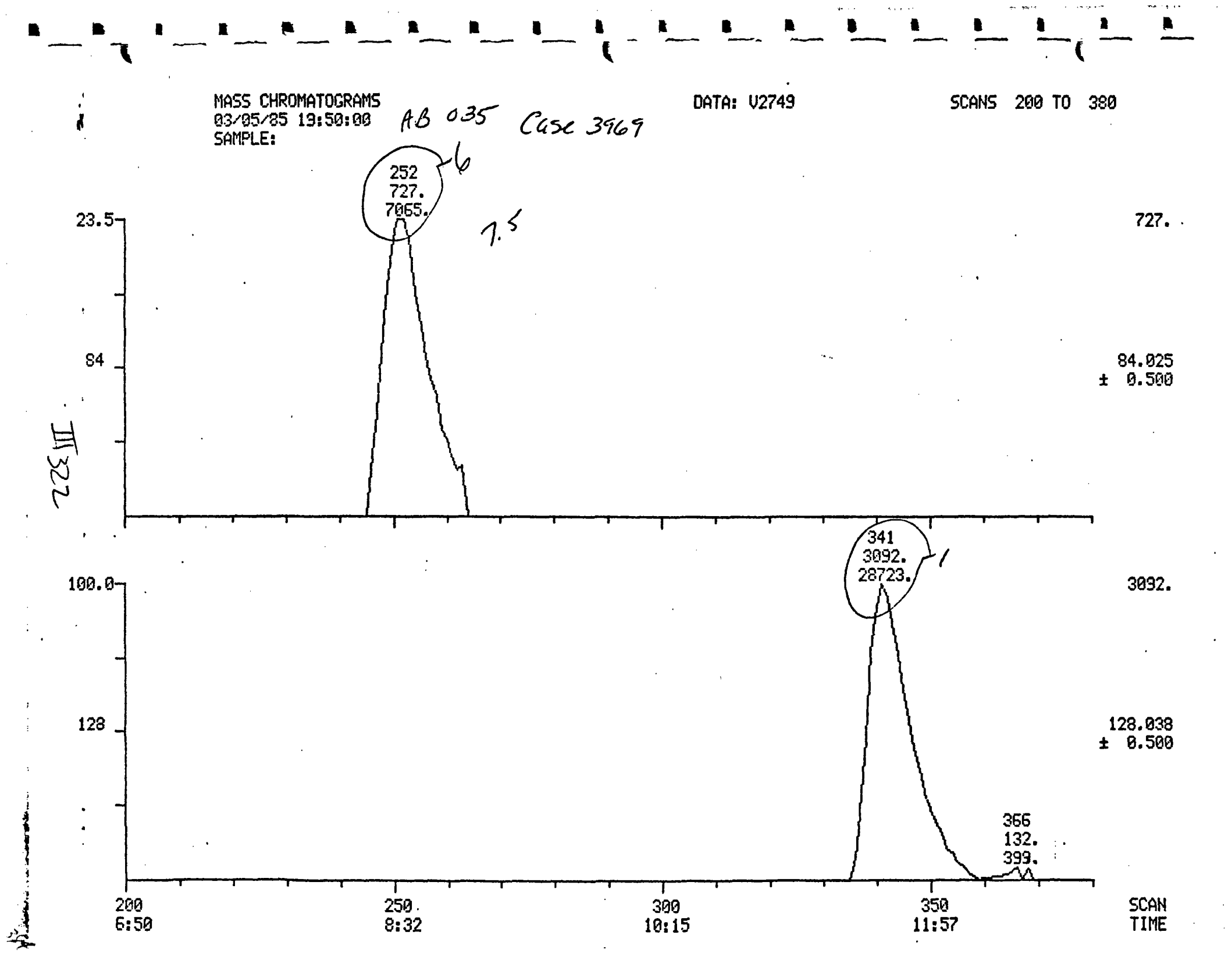
AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	BROMOCHLOROMETHANE(I.S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS 1,2-DICHLOROETHENE
12	CHLOROFORM
13	1,2-DICHLOROETHANE
14	D4-1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	1,4-DIFLUROBENZENE(I.S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS 1,3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	BENZENE
27	CIS-1,3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I.S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1,1,2,2,TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	341	11:39	1	1.000	A BB	28482.	50.000 UG/L	11.50
2	NOT FOUND								
3	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	65	411	14:03	1	1.205	A BB	100749.	97.563	%REC	22.44
15	NOT FOUND									
16	114	576	19:41	16	1.000	A BB	138145.	50.000	UG/L	11.50
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	98	678	23:10	16	1.177	A BB	156365.	93.093	%REC	21.41
30	NOT FOUND									
31	117	715	24:26	31	1.000	A BB	95156.	50.000	UG/L	11.50
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	92	684	23:22	31	0.957	A BB	896.	0.413	UG/L	0.10
37	112	720	24:36	31	1.007	A BB	111.	0.051	UG/L	0.01
38	NOT FOUND									
39	95	894	30:33	31	1.250	A BB	79664.	93.730	%REC	21.55
40	NOT FOUND									
41	NOT FOUND									

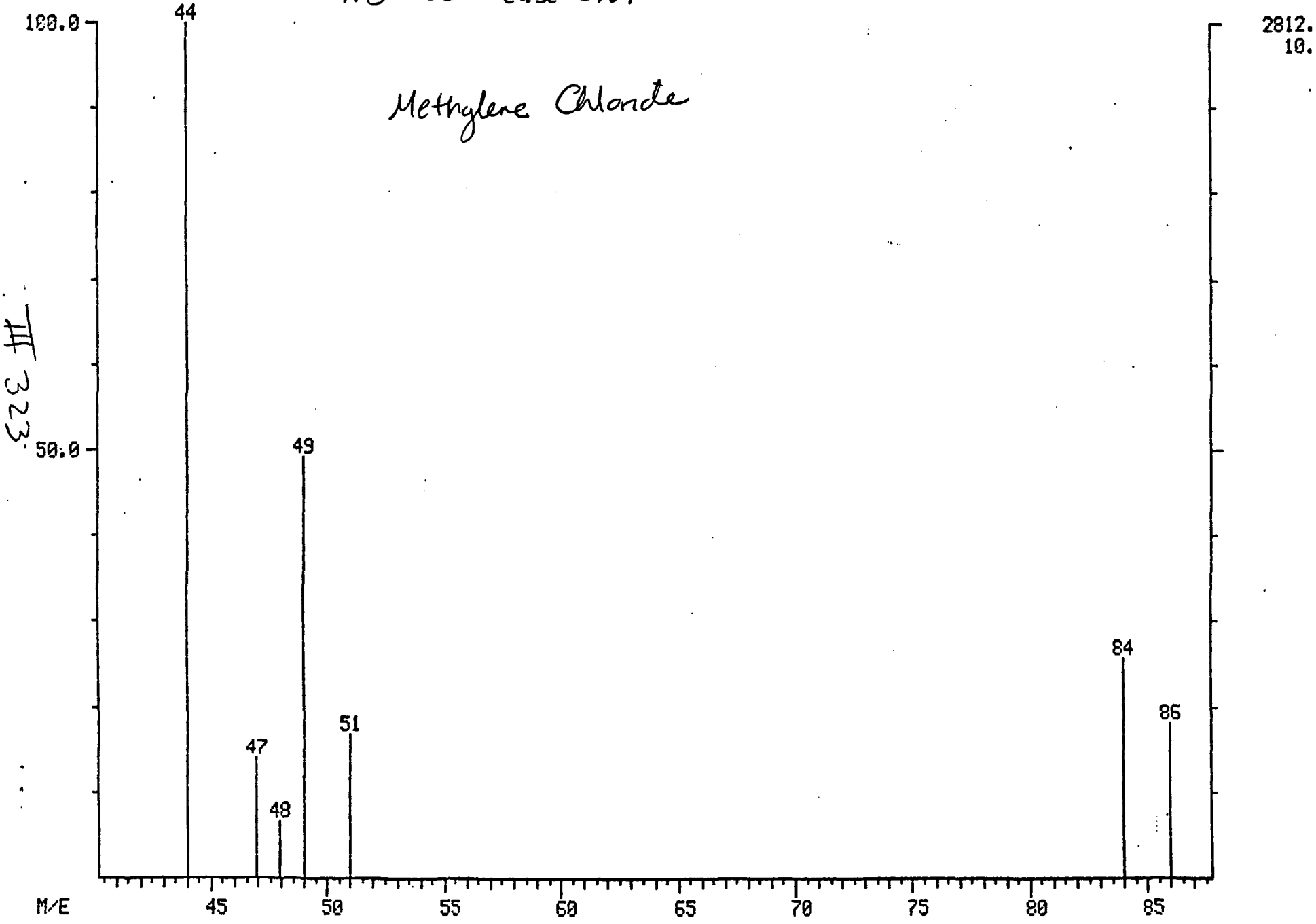
AB 035 Case 3769 3/5/85


MASS CHROMATOGRAMS
03/05/85 19:50:00
SAMPLE:
AB 035 Case 3969
DATA: V2749
SCANS 200 TO 380
252
727.
7065.
6
7.5
23.5
84
727.
84.025
± 0.500
III 322
341
3092.
28723.
1
100.0
128
3092.
128.038
± 0.500
366
132.
399.
200
6:50
250
8:32
300
10:15
350
11:57
SCAN
TIME

MASS SPECTRUM
03/05/85 13:50:00 + 8:35
SAMPLE: AB 035 Case 3969

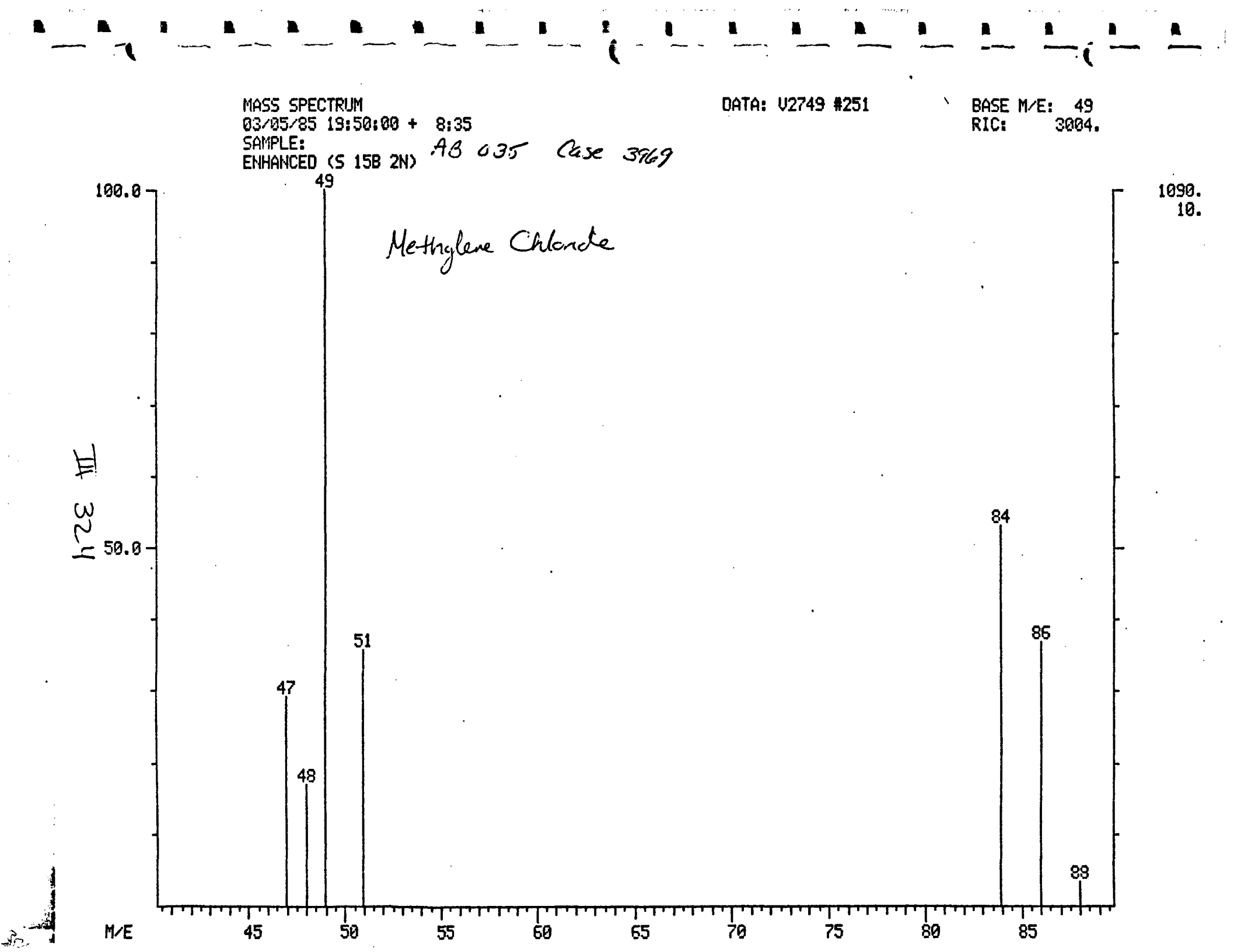
DATA: V2749 #251

BASE M/E: 44
RIC: 6496.



Methylene Chloride

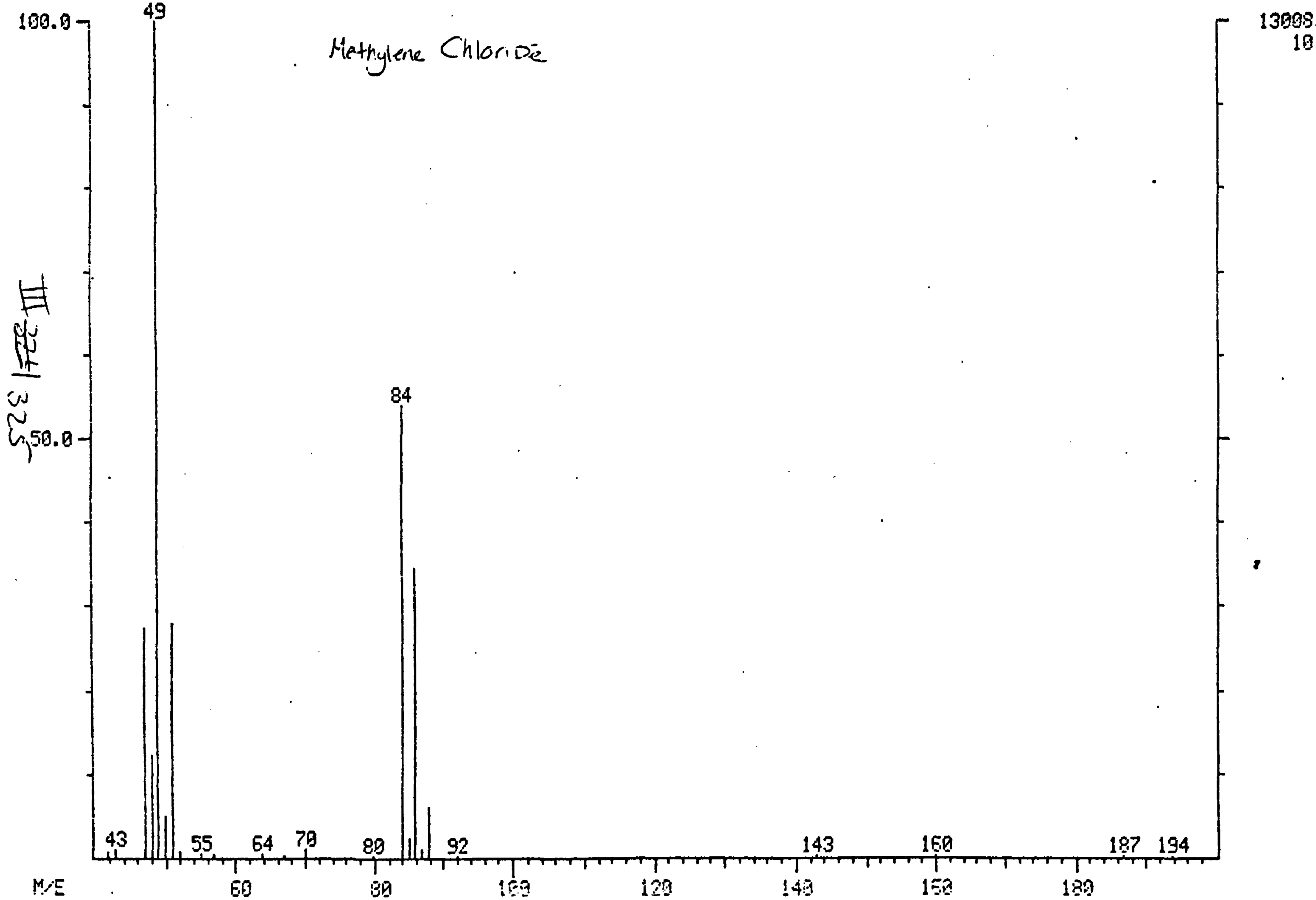
III 323


MASS SPECTRUM
03/05/85 19:50:00 + 8:35
SAMPLE:
ENHANCED (S 15B 2N)
AB 035 Case 3969
DATA: V2749 #251
BASE M/E: 49
RIC: 3004.
Methylene Chloride
III A 324
100.0
50.0
1090.
10.
49
47
48
51
84
86
88
M/E
45
50
55
60
65
70
75
80
85

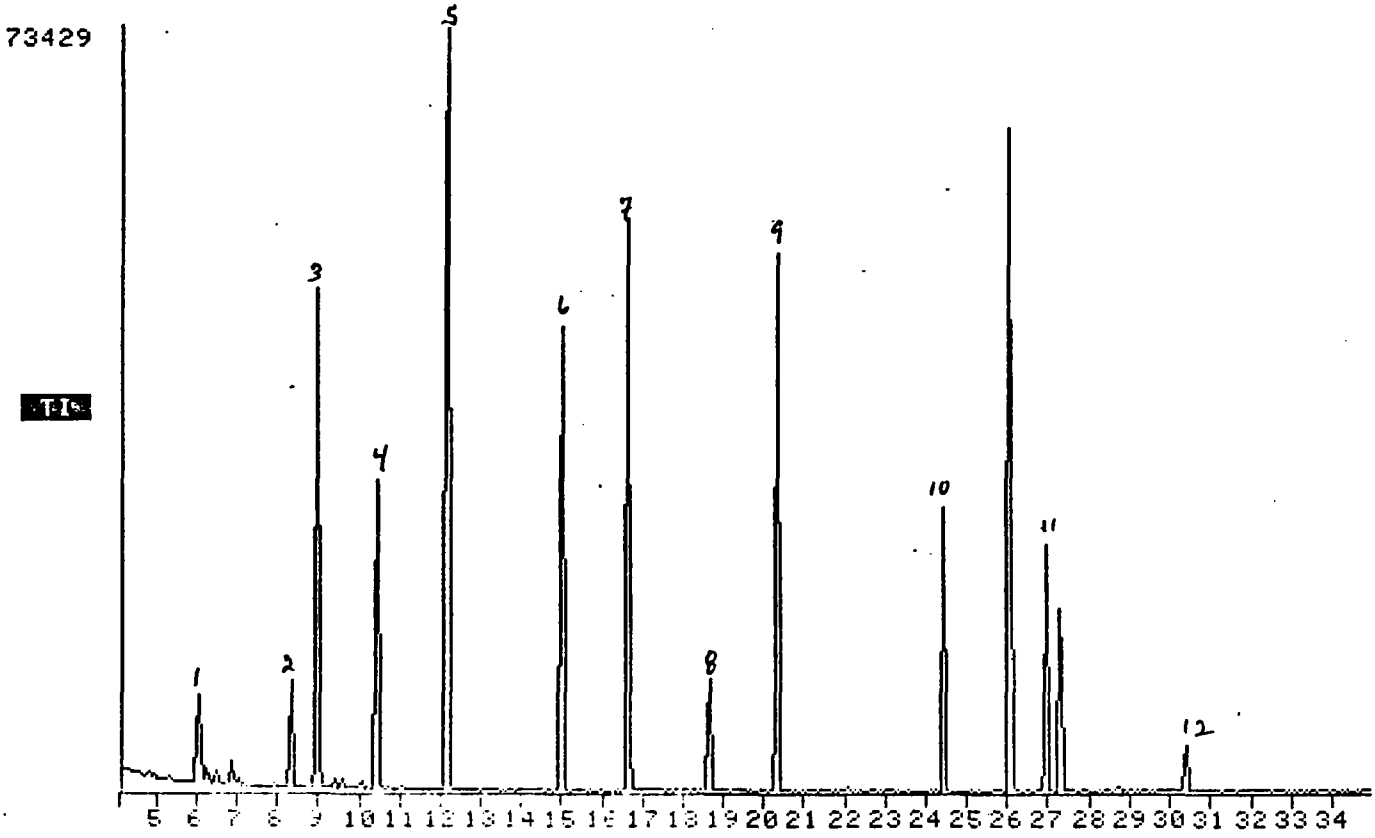
MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE: case ~~[illegible]~~ 3969 100 ppb
ENHANCED (S 15B 2N)

DATA: V2708 #248

BASE M/E: 49
RIC: 36224.



[redacted] 3/25/85/EM BTL#27 Q14768 D14768



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

III 326

FILE NUMBER 14768

43224 AB035 CASE 3969

3/25/85/EM BTL#27 Q14768 D14768

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
9.9	74.0	.046	.0000	N-NITROSODIMETHYLAMINE			
8.4	93.0	.913	.0000	ANILINE			
8.5	93.0	.709	.0000	BIS(2-CHLOROETHYL)ETHER			
8.9	146.0	.591	.0000	1,3-DICHLOROBENZENE			
9.0	146.0	.594	.0000	1,4-DICHLOROBENZENE			
9.5	108.0	.395	.0000	BENZYL ALCOHOL			
9.5	146.0	.594	.0000	1,2-DICHLOROBENZENE			
9.9	45.0	.527	.0000	BIS(2-CHLOROISOPROPYL)ETHER			
10.2	70.0	.490	.0000	N-NITROSODINPROPYLAMINE			
10.2	117.0	.291	.0000	HEXACHLOROETHANE			
10.5	77.0	.716	.0000	NITROBENZENE			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.1	138.0	1.519	.0000	ISOPHORONE			
11.8	95.0	1.813	.0000	BIS(2-CHLOROETHOXY)METHANE			
12.1	180.0	2.642	.0000	1,2,4-TRICHLOROBENZENE			
12.2	129.0	1.325	.0000	NAPHTHALENE			
12.5	127.0	4.577	.0000	4-CHLOROANILINE			
12.7	225.0	1.190	.0000	HEXACHLOROBUTADIENE			
14.0	115.0	2.578	.0000	2-METHYLNAPHTHALENE			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE			
14.6	237.0	.205	.0000	HEXACHLOROCYCLOPENTADIENE			
15.2	164.0	.281	.0000	2-CHLORONAPTHALENE			
15.6	138.0	.397	.0000	2-NITROANILINE			
16.2	164.0	.083	.0000	DIMETHYL PHTHALATE			
16.3	151.0	.272	.0000	ACENAPHTHYLENE			
16.4	165.0	.228	.0000	2,6-DINITROTOLUENE			
16.7	138.0	.293	.0000	3-NITROANILINE			
16.8	152.0	.437	.0000	ACENAPHTHENE			
17.2	139.0	.490	.0000	DIBENZOFURAN			
17.3	165.0	.320	.0000	2,4-DINITROTOLUENE			
18.0	177.0	.171	.0000	DIETHYL PHTHALATE			
18.0	165.0	.820	.0000	FLUORENE			
18.1	204.0	.358	.0000	4-CHLOROPHENYLPHENYL ETHER			
18.2	138.0	.292	.0000	4-NITROANILINE			
17.2	169.0	.144	.0000	DIPHENYLAMINE			

FILE NUMBER 14768

43224 AB035 CASE 3969

3/25/85/EM BTL#27 Q14768 D14768

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			

27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	47.5884 ✓	BIS(2-ETHYLHEXYL)PHTHALATE			

30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	~~1.9186~~ EM	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			

27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

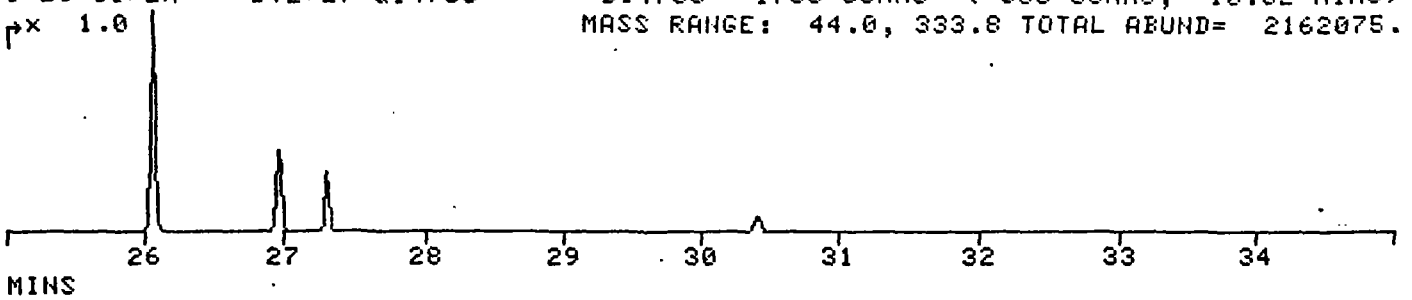
FILE NUMBER 14768

43224 AB035 CASE 3969

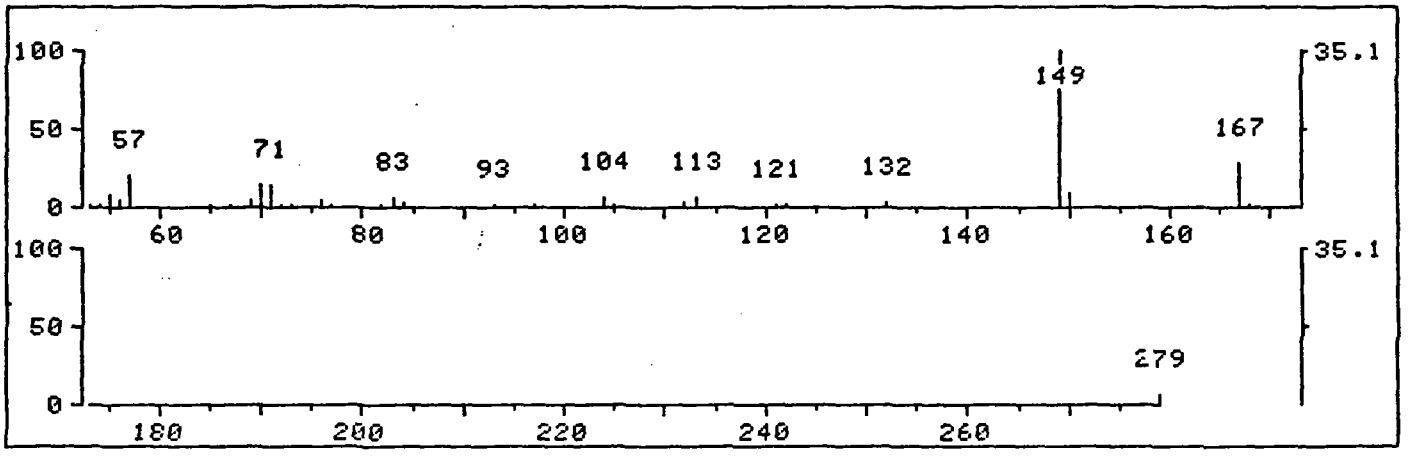
3/25/85/EM BTL#27 Q14768 D14768

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

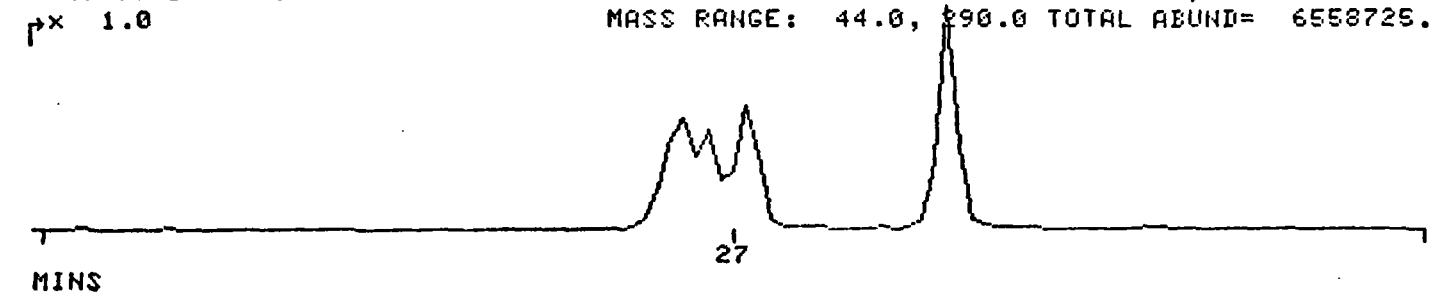
43224 AB035 CASE 3969
3/25/85/EM BTL#27 Q14768 D14768 1706 SCANS (553 SCANS, 10.02 MINS)
FRN 14768, CRN 10
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 2162075.



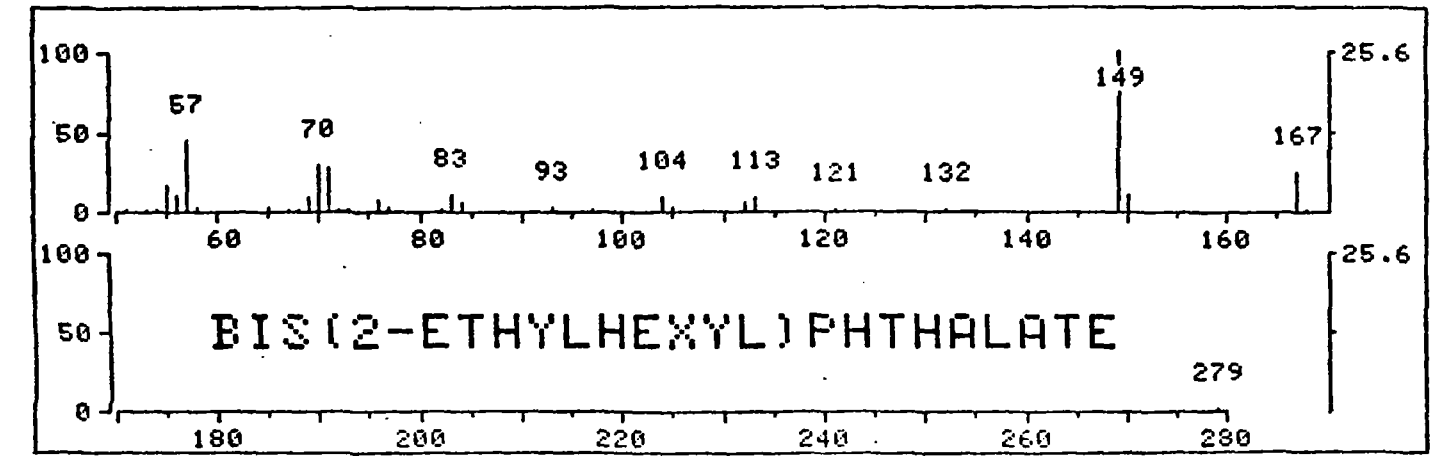
*1282 RET. TIME: 27.32 TOT ABUND= 12532. BASE PK/ABUND: 149.1/ 4394.



80BN
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (111 SCANS, 2.02 MINS)
FRN 14749, CRN 7
MASS RANGE: 44.0, 390.0 TOTAL ABUND= 6558725.



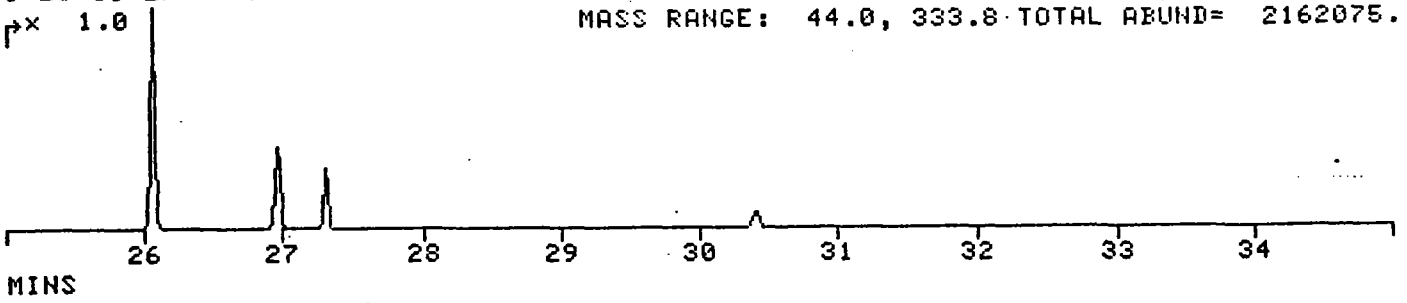
*1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.



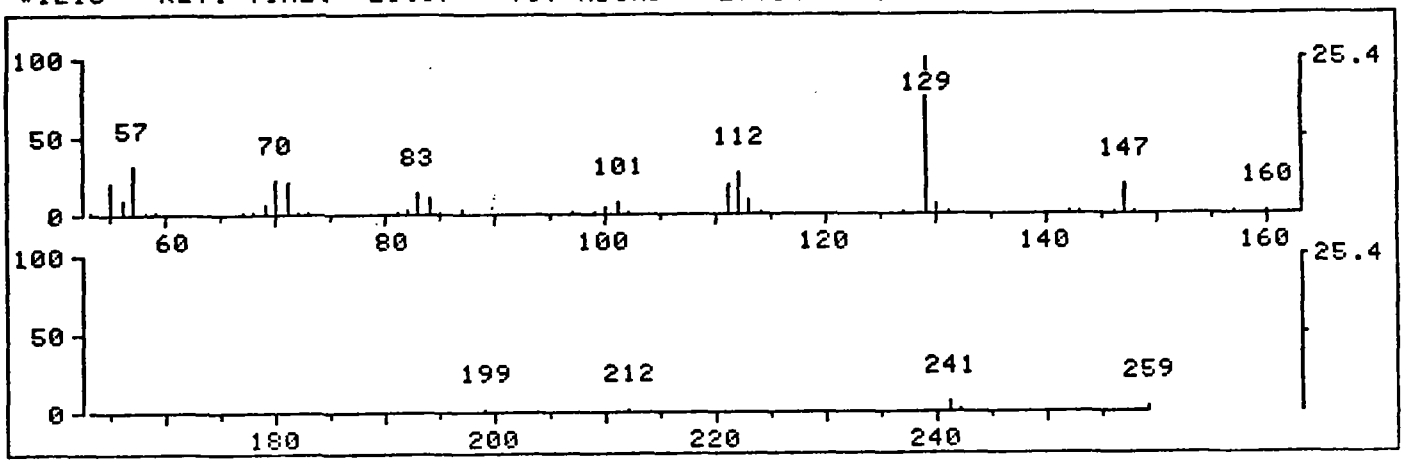
III 330

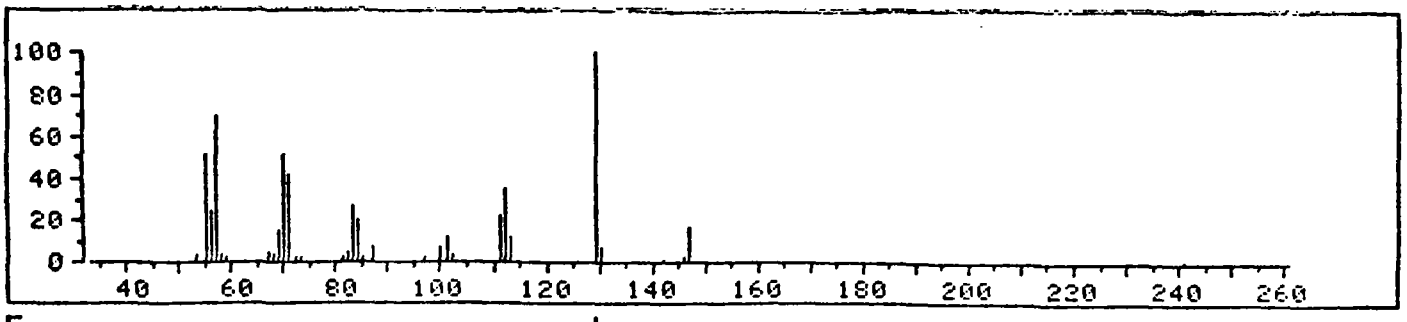
43224 AB035 CASE 3969
3/25/85/EM BTL#27 Q14768

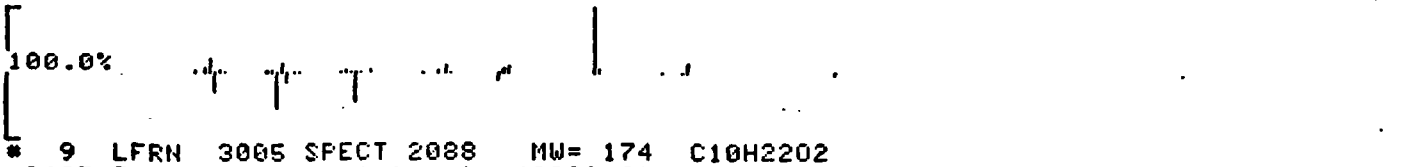
FRN 14768, CRN 10
D14768 1706 SCANS (553 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.8 TOTAL ABUND= 2162075.



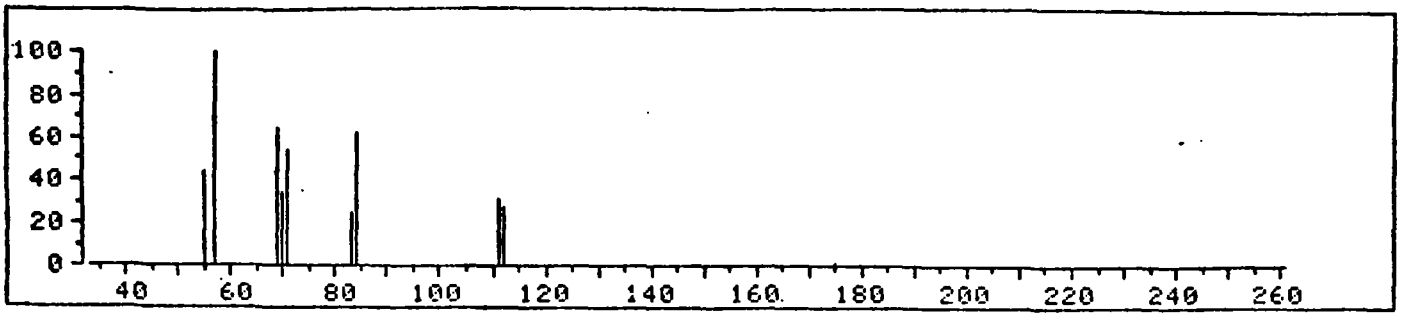
*1213 RET. TIME: 26.07 TOT ABUND= 27554. BASE PK/ABUND: 129.1/ 7001.







* 9 LFRN 3005 SPECT 2088 MW= 174 C10H2202
.8627 Ethanol, 2-(octyloxy)- (8CI9CI)



III 331

MASS TABLE ENTRIES: PKN 14/68

Entry	Time	Mass	Area	%
1	27.0	239.7	16292.	100.0
2	26.0	TI	120338.	738.7

CALCULATE % ON ENTRY #:

III 332

Date 3/30/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

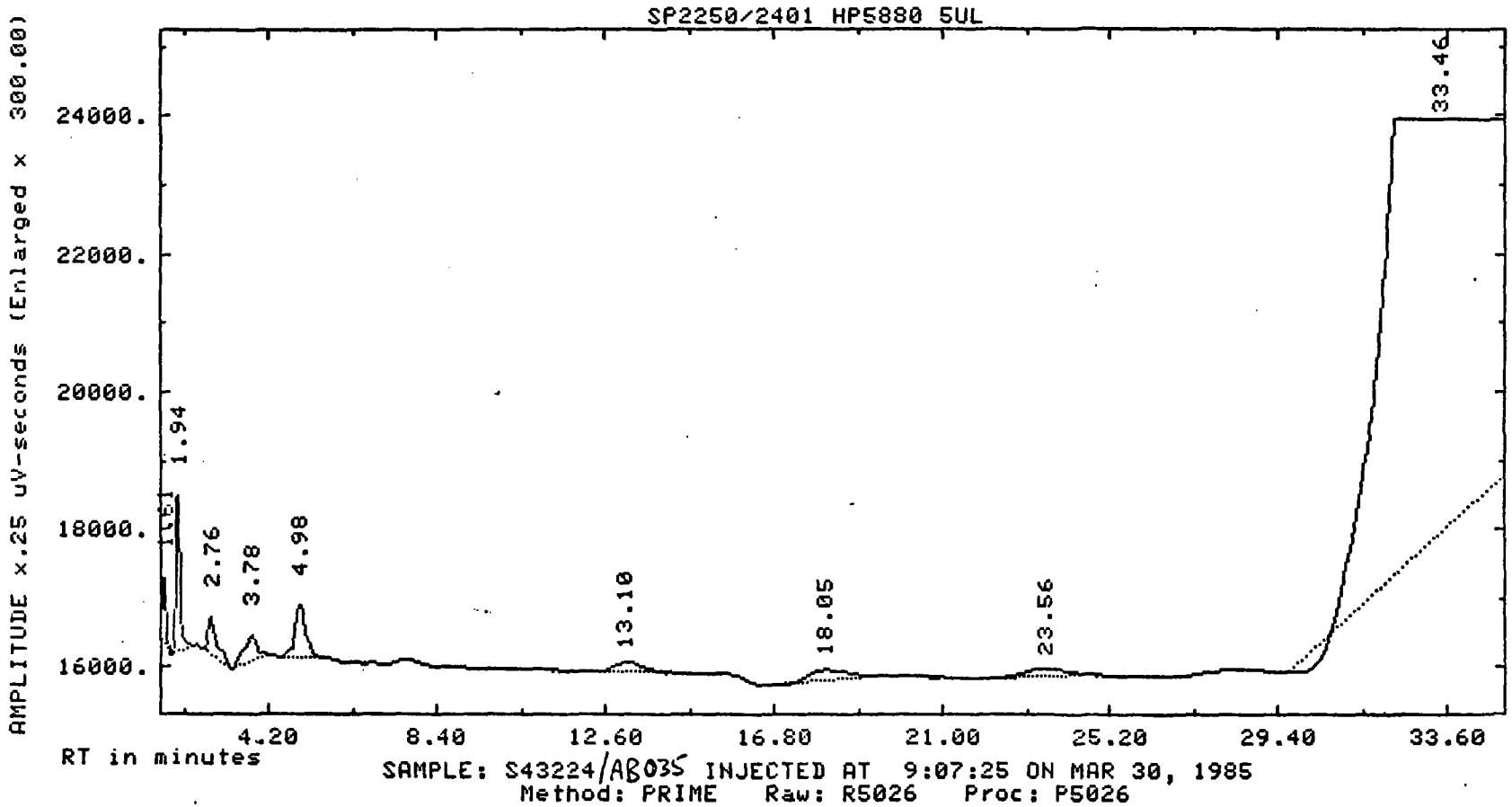
Case # 3969

Sample I.D. 43224 / AB035 HP 5880
Run # 26 Bottle # 26

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
No Peaks						
	PBC observed	by peak at 33 min				

GCA GCA CORPORATION Technology Division

Case 3969



III 334

READY
*LI,P,P5026

PROCESSED DATA FILE: P5026 ON CRN 21

Case 3969

APR 2, 1985 11:41:12

REPORT: 122 CHANNEL: 2 # PEAKS: -12 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.45	0.00	1.00000	436	BV	.027	
2	1.61	0.00	1.00000	3432	VV	.214	
3	1.94	0.00	1.00000	8318	VB	.518	
4	2.76	0.00	1.00000	4003	BV	.249	
5	3.78	0.00	1.00000	4013	VB	.250	
6	4.98	0.00	1.00000	7490	BB	.467	
7	13.10	0.00	1.00000	3345	BB	.208	
8	18.05	0.00	1.00000	4883	BB	.304	
9	23.56	0.00	1.00000	3956	BB	.247	
10	33.46	0.00	1.00000	1365670	BV	85.101	
11	37.44	0.00	1.00000	170641	VV	10.633	
12	39.97	0.00	1.00000	28581	VF	1.781	

TOTAL AREA = 1604770 TOTAL AREA % = 100.000

SAMPLE: S43224/AB035 INJECTED AT 9:07:25 ON MAR 30, 1985

ZERO METHOD: PRIME SEQ: SM03 SUBSQ/SAMP: 1 / 26 BTL: 26

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	NO

ACTUAL RUN TIME: 40.008 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: R5026 PARAM FILES= METHOD: SEQ:

DONE
READY

III 335

ORGANICS TRAFFIC REPORT AB036

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To: GCA 213 Burlington Rd Bedford, MA 01730

Attn: Gary Hunt

Transfer Ship To:

⑤ Regional Office: I

Sampling Personnel: John Williams (Name)

(617) 792-5151 (Phone)

Sampling Date: 2/28/85 (Begin) 2/28/85 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	80 oz
Water (VOA)	2	40 ml
Soil/Sediment (Extractable)		
Soil/Sediment (VOA)		
Other		

⑪ Analysis Lab:

Rec'd by: [illegible]

Date Rec'd: 3/1/85

Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.): No sample tags

⑦ Shipping Information

Hand-carried

Name of Carrier

Date Shipped:

Airbill Number:

⑧ Sample Description

___ Surface Water
✓ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) ______

⑨ Sample Location

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MAA 018

LAB FILE COPY III 336

Laboratory Name: GCA
Lab Sample ID No. 43240
Sample Matrix: water
[Data] Release Authorized By

Case No 3969
QC Report No 3969
Contract No 68-01-6767
Date Sample Received 3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared 3/5/85
Date Analyzed: 3/5/85
Conc/Dil Factor: 1 pH NA
Percent Moisture NA
Percent Moisture (Decanted) NA

ETmm 5/3/85 R-Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	31R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
[6]7-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	*

Data Reporting Qualifiers

[illegible]

* See narrative

Value: If the result is a value greater than or equal to the detection limit, report the value.

U: Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J: Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that [illegible] the sample [illegible]

C: This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B: This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other: Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

III. 338

Environmental Protection Agency. CLP Sample Management Office.
P. O Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 036

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0L → 1.0mL

EJ mm 5/9/85 R = Reject

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopr[illegible]Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	39 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB036

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 3/30/85

Conc/Dil Factor: 1

E Fmm 5/15/85

NA = Not Analyzed

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05U
319-85-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4, 4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4, 4'-DDD	0.10U
7421-93-4	Endrin Aldehyde	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4, 4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor-1016	0.50U
11104-28-2	Aroclor-1221	0.50U
11141-16-5	Aroclor-1232	0.50U
53469-21-9	Aroclor-1242	0.50U
12672-29-6	Aroclor-1248	0.50U
11097-69-1	Aroclor-1254	1.0U
11096-82-5	Aroclor-1260	1.0U

[signature] 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s ______ V_t 10,000 ul V_i 5.0 ul

III 340

P.O. Box 818 Alexandria, Virginia 22313 703/557-2490

Sample Number
AB036

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		2-Methyl 1 Pentene	VOA	469	12.2
2.		3 methyl pentane		516	5.4
3.		UnKnown		554	100
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

III 341

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 036

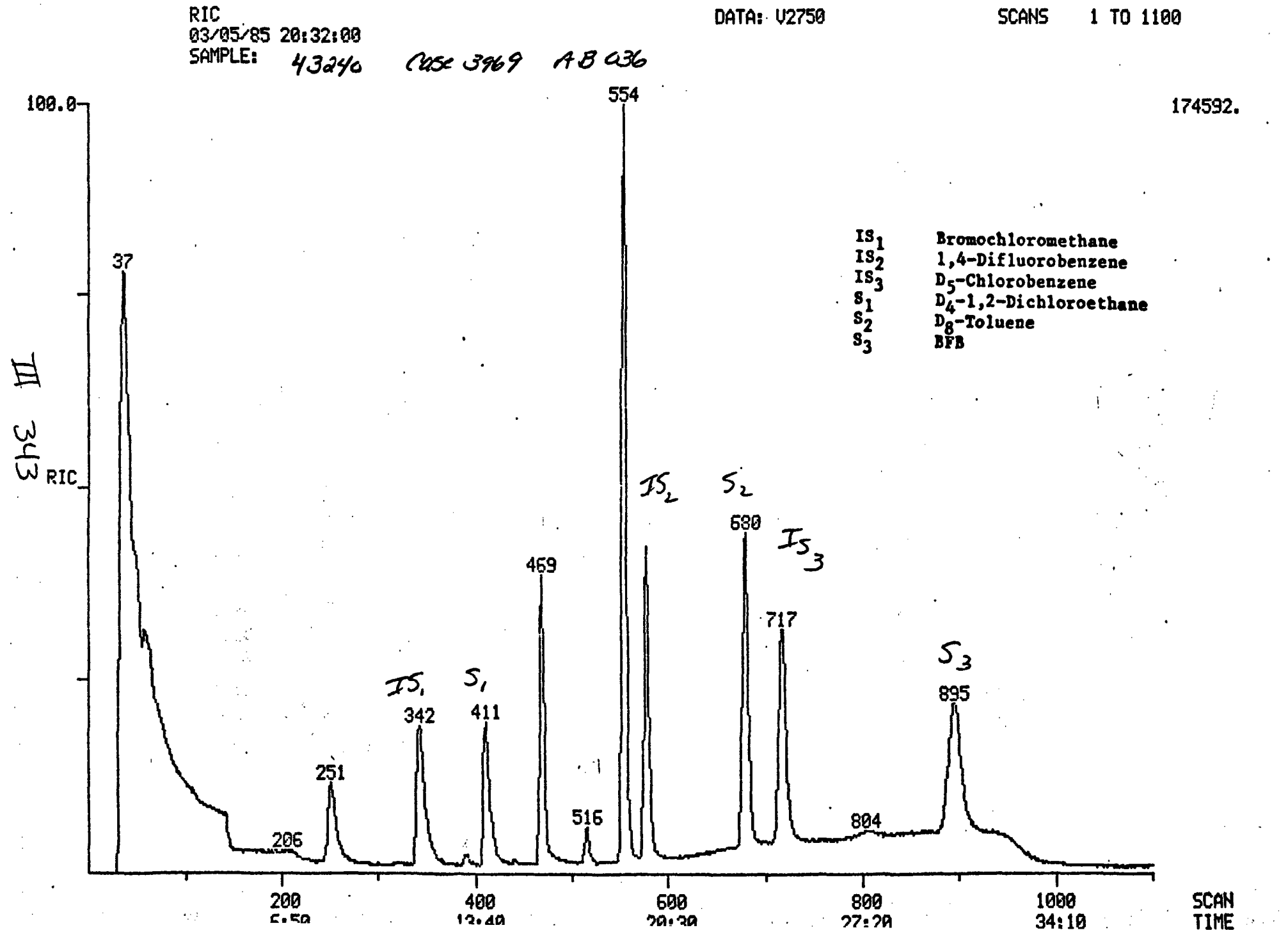
Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	BN/A	26.0	359 J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

III 342

1/84


RIC
03/05/85 20:32:00
SAMPLE: 43240 Case 3969 AB 036
DATA: V2750
SCANS 1 TO 1100
100.0
174592.
554
37
469
680
717
895
342
411
251
516
206
804
IS1
S1
IS2
S2
IS3
S3
IS1 Bromochloromethane
IS2 1,4-Difluorobenzene
IS3 D5-Chlorobenzene
S1 D4-1,2-Dichloroethane
S2 D8-Toluene
S3 BFB
RIC
200
5:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

INNIGAN ORGANICS IN WATER ANALYZER
UANTITATION REPORT FILE: V2750

AB 036 Case 3969

ATA: V2750.TI
3/05/85 20:32:00
MPLE:
BMITTED BY: ANALYST:

MOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
ESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	BROMOCHLOROMETHANE(I. S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS 1,2-DICHLOROETHENE
12	CHLOROFORM
13	1,2-DICHLOROETHANE
14	D4-1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	1,4-DIFLUROBENZENE(I. S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS 1,3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	BENZENE
27	CIS-1,3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I. S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1,1,2,2,TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

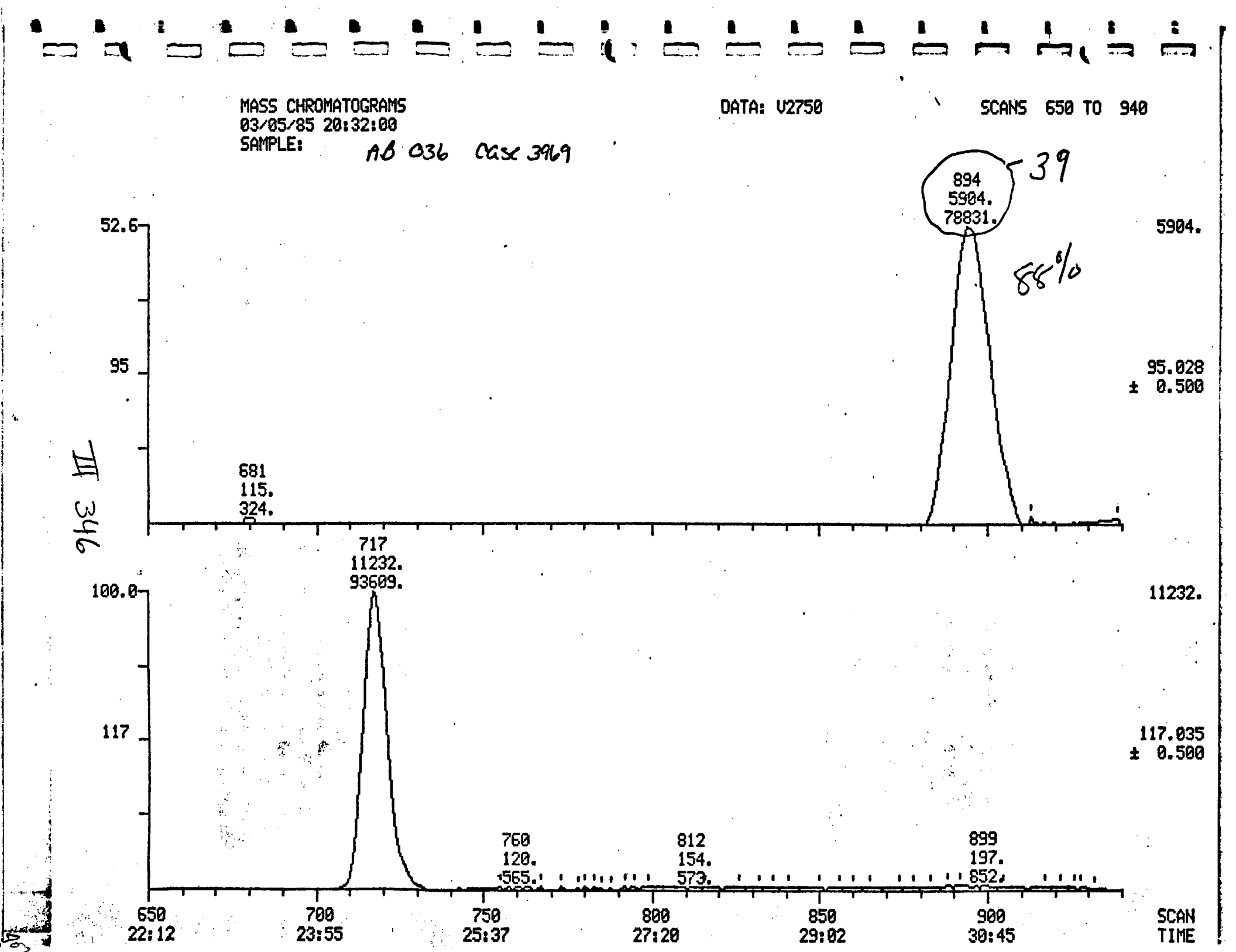
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	341	11:39	1	1.000	A BB	28934.	50.000 UG/L	14.79
2	NOT FOUND								
3	NOT FOUND								

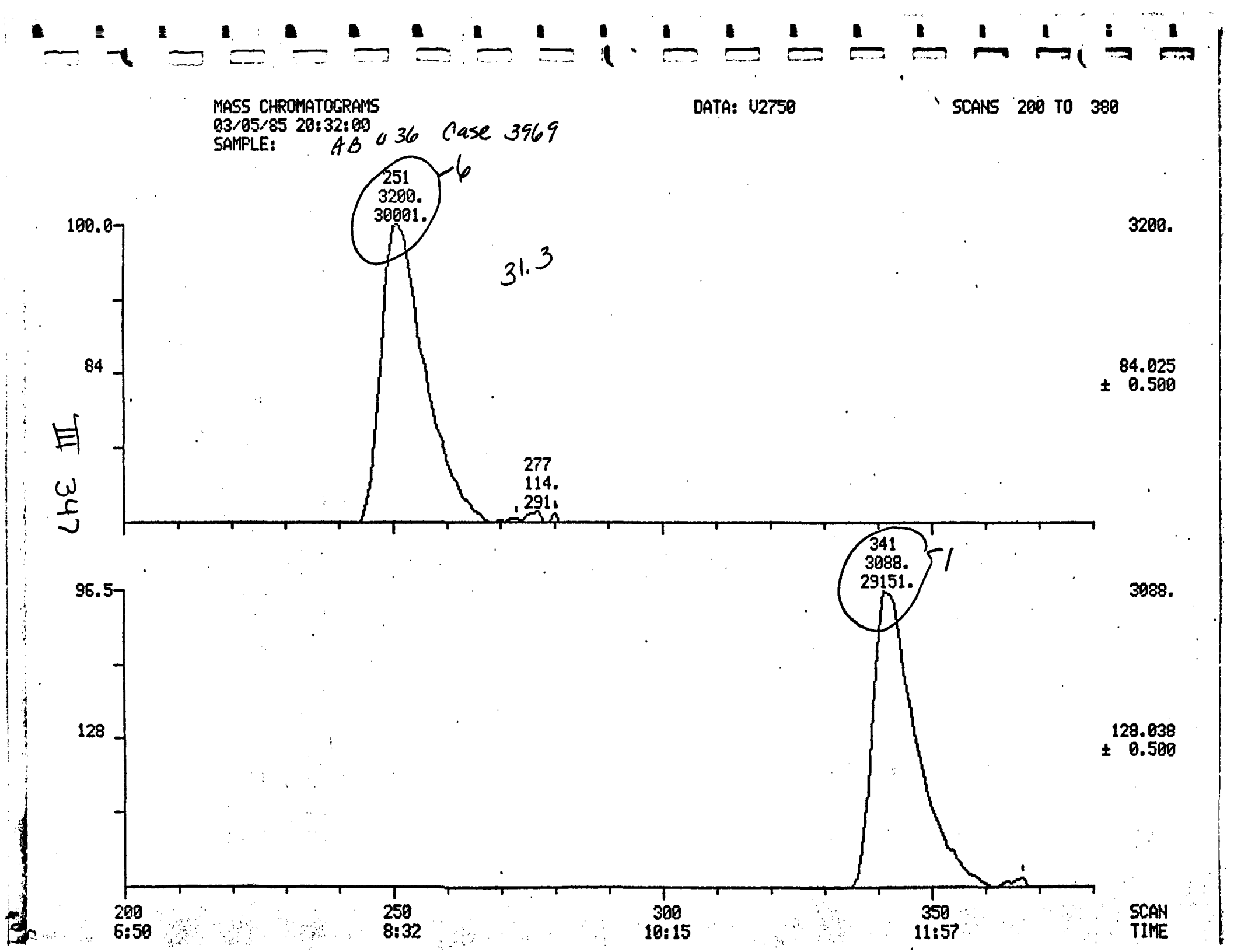
III 344

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	65	411	14:03	1	1.205	A BB	99468.	94.819	%REC	28.04
15	NOT FOUND									
16	114	577	19:43	16	1.000	A BB	133121.	50.000	UG/L	14.79
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	98	680	23:14	16	1.179	A BB	150985.	93.283	%REC	27.59
30	NOT FOUND									
31	117	717	24:30	31	1.000	A BB	93154.	50.000	UG/L	14.79
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									

AB 036 Rec 3969 3/5/85

III 345

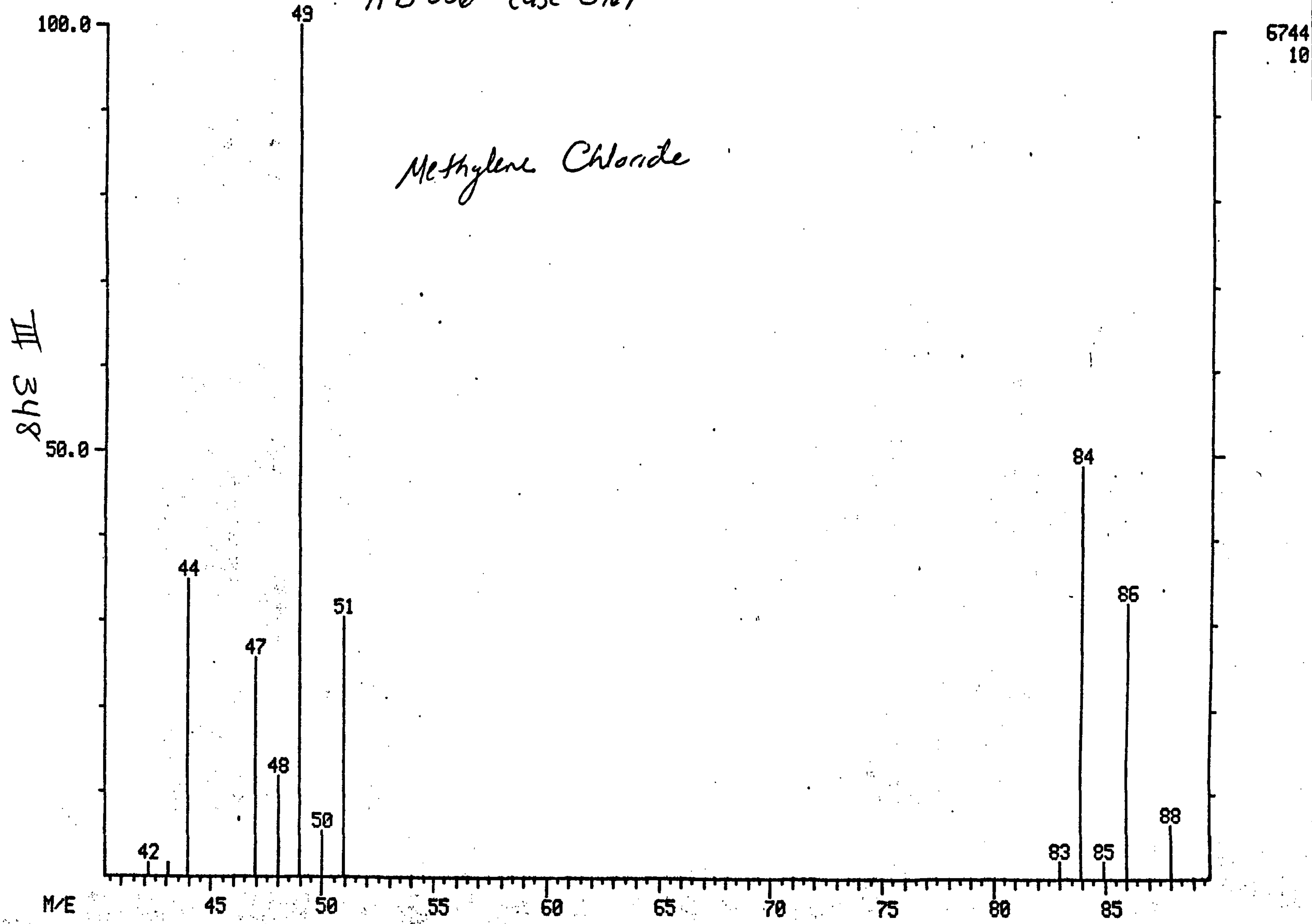

MASS CHROMATOGRAMS
03/05/85 20:32:00
SAMPLE: AB 036 Case 3969
DATA: V2750
SCANS 650 TO 940
894
5904.
78831.
39
88%
52.6
95
5904.
95.028
± 0.500
681
115.
324.
346 III
717
11232.
93609.
100.0
117
11232.
117.035
± 0.500
760
120.
565.
812
154.
573.
899
197.
652.
650
22:12
700
23:55
750
25:37
800
27:20
850
29:02
900
30:45
SCAN
TIME

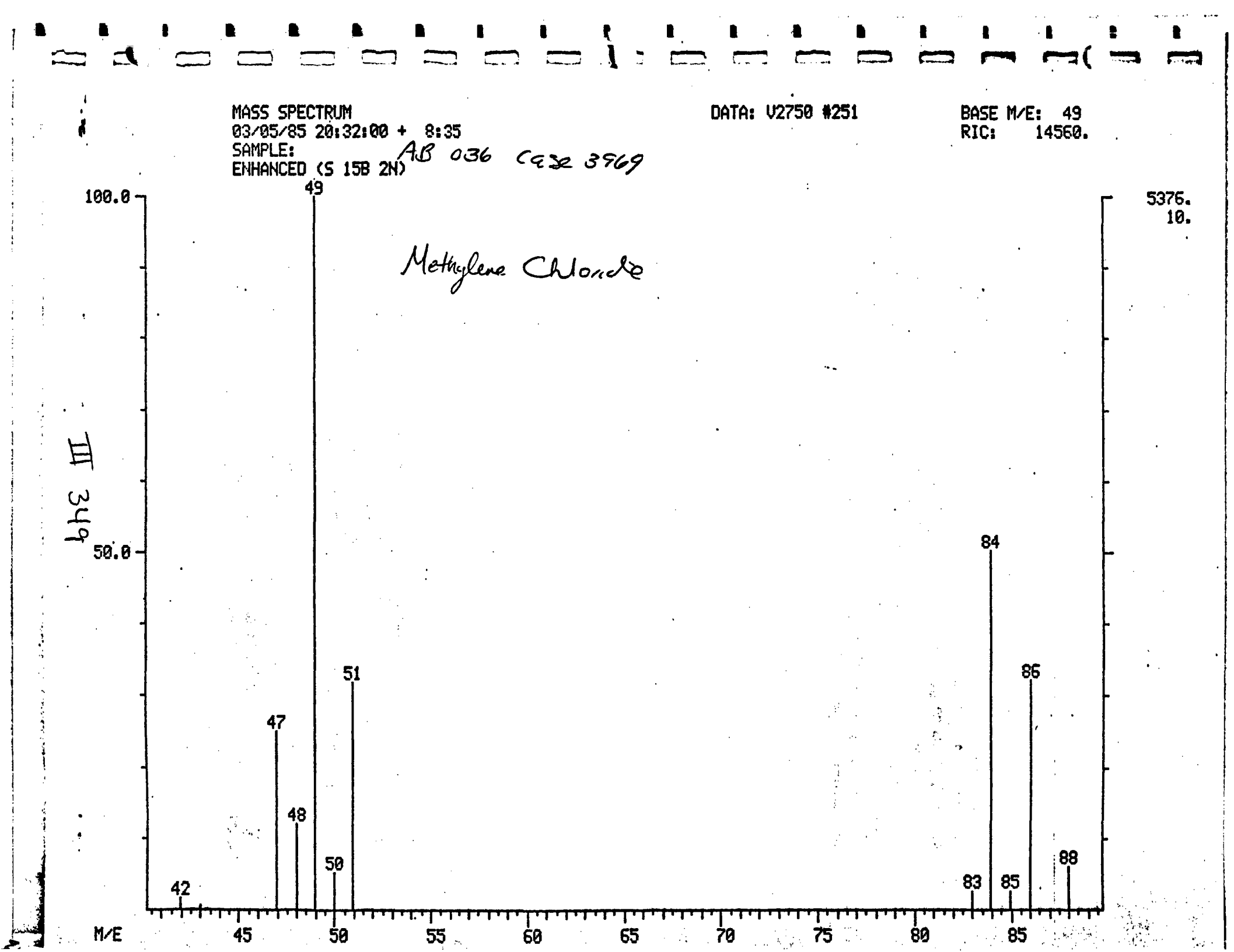

MASS CHROMATOGRAMS
03/05/85 20:32:00
SAMPLE: AB 036 Case 3969
DATA: V2750
SCANS 200 TO 380
251
3200.
30001.
6
31.3
277
114.
291.
100.0
84
3200.
84.025
± 0.500
341
3088.
29151.
1
96.5
128
3088.
128.038
± 0.500
200
6:50
250
8:32
300
10:15
350
11:57
SCAN
TIME

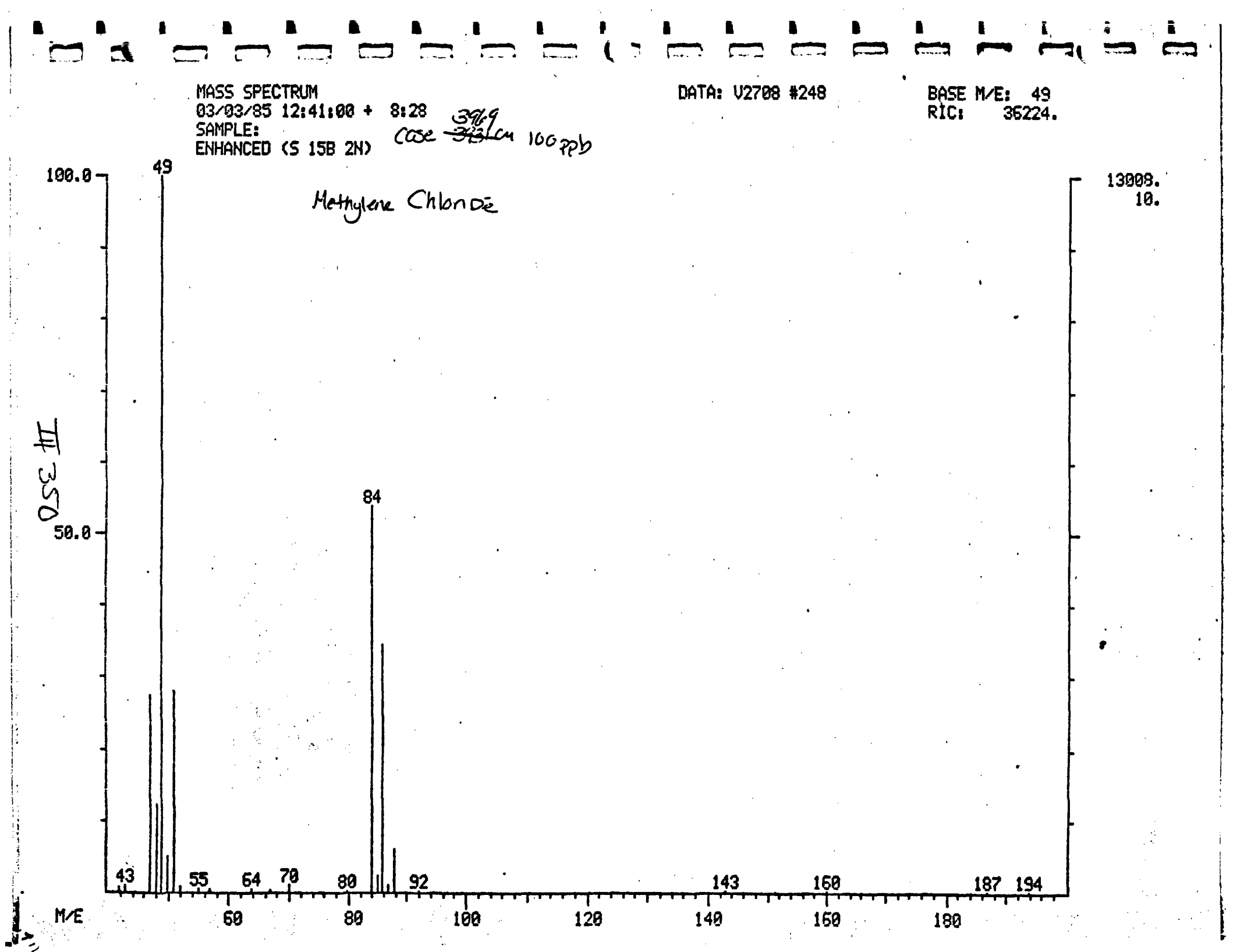
MASS SPECTRUM
03/05/85 20:32:00 + 8:35
SAMPLE: A B 036 Case 3969

DATA: V2750 #251

BASE M/E: 49
RIC: 20512.



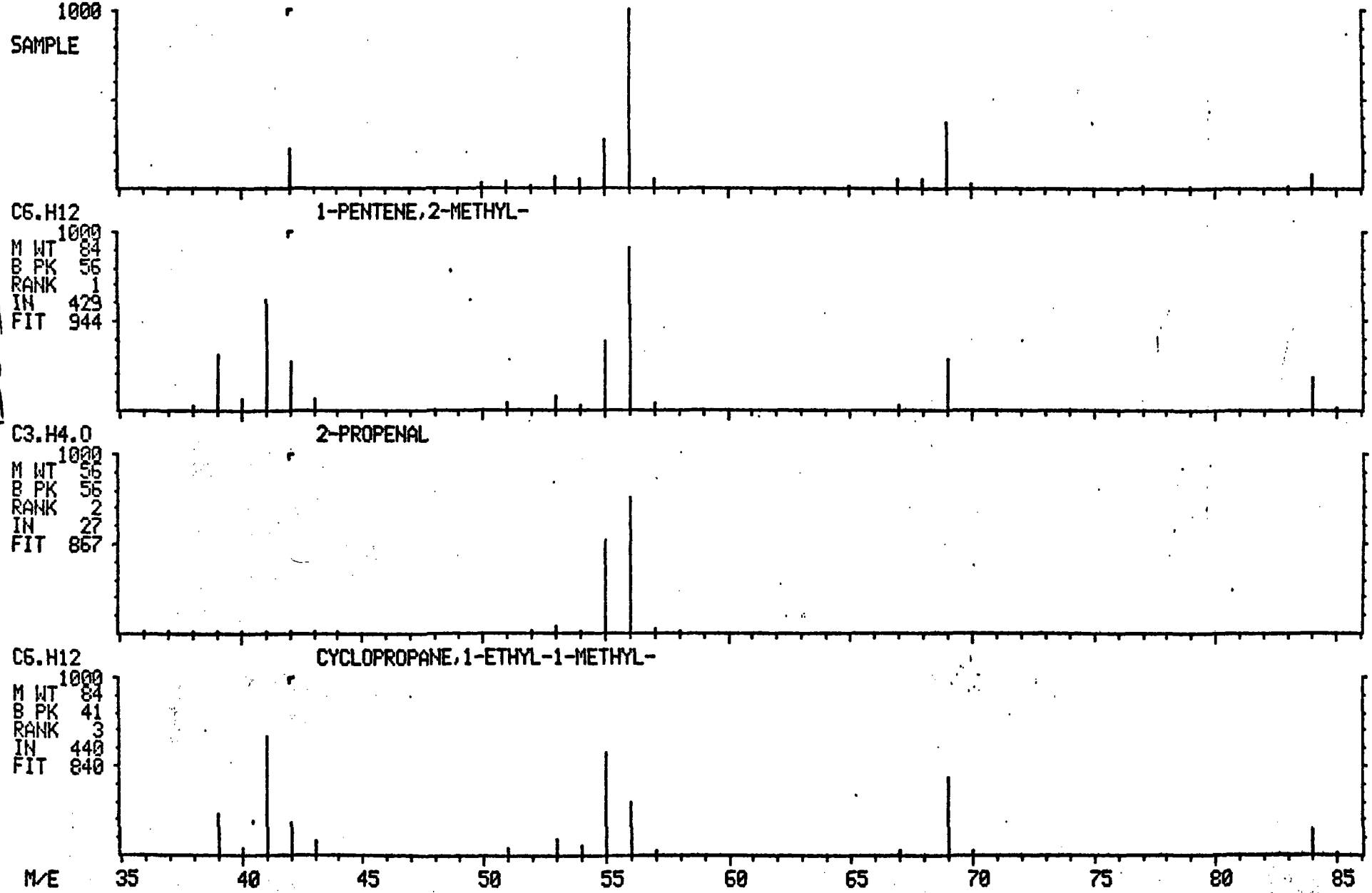

MASS SPECTRUM
03/05/85 20:32:00 + 8:35
SAMPLE:
AB 036 Case 3969
ENHANCED (S 15B 2N)
DATA: V2750 #251
BASE M/E: 49
RIC: 14560.
100.0
50.0
5376.
10.
Methylene Chloride
III 349
49
84
51
86
47
48
50
88
42
83
85
M/E
45
50
55
60
65
70
75
80
85


MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)
DATA: V2708 #248
BASE M/E: 49
RIC: 36224.
Methylene Chloride
100.0
50.0
13008.
10.
49
84
43
55
64
70
80
92
143
160
187
194
M/E
60
80
100
120
140
160
180

LIBRARY SEARCH
03/05/85 20:32:00 + 16:01
SAMPLE: AB 036 Case 3969
ENHANCED (S 15B 2N 0T)

DATA: V2750 # 469

BASE M/E: 56
RIC: 60159.

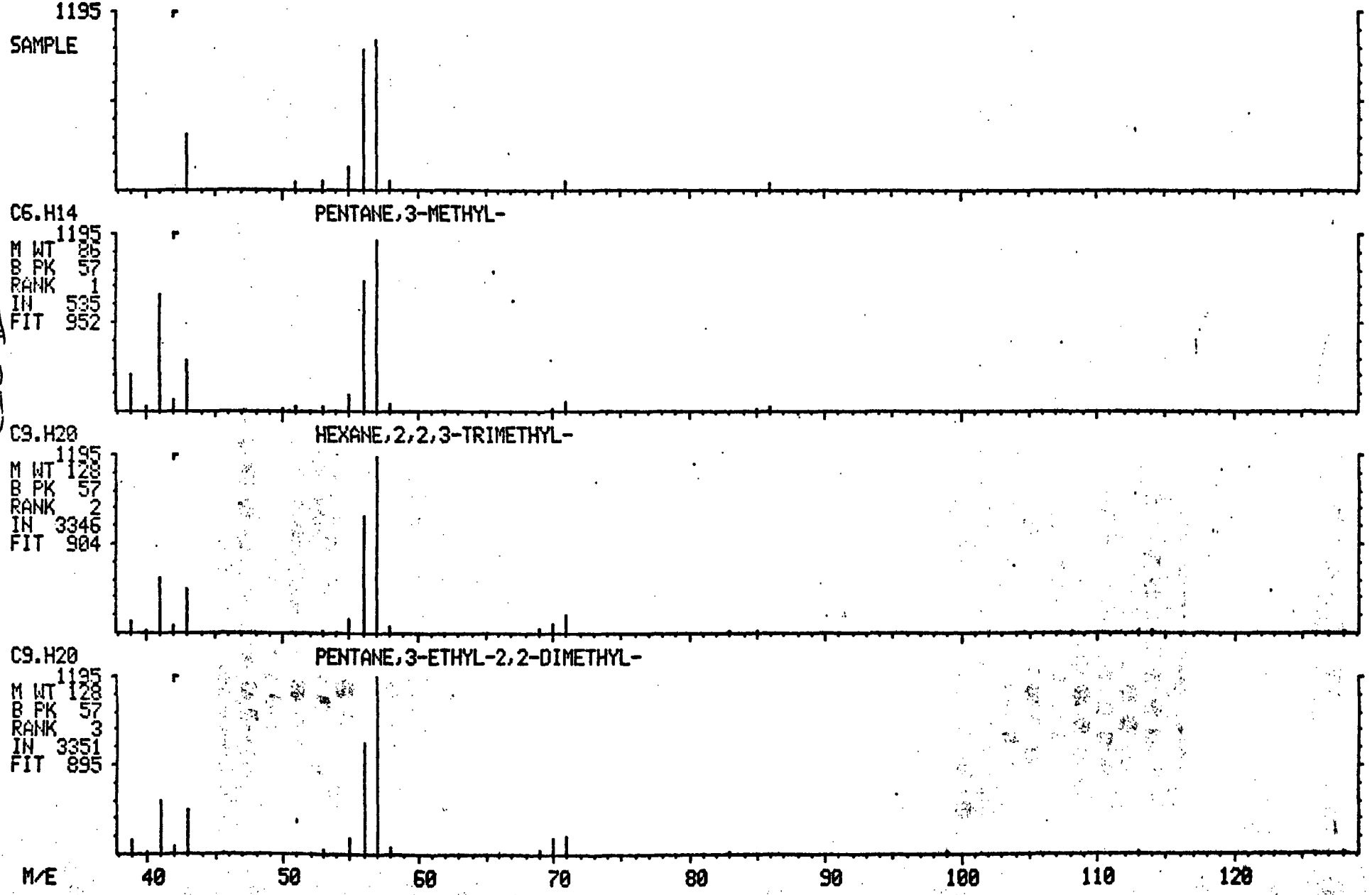


III 351

LIBRARY SEARCH
03/05/85 20:32:00 + 17:38
SAMPLE: AO 0.36 Case 3965
ENHANCED (S 15B 2N 0T)

DATA: V2750 # 516

BASE M/E: 57
RIC: 7543.

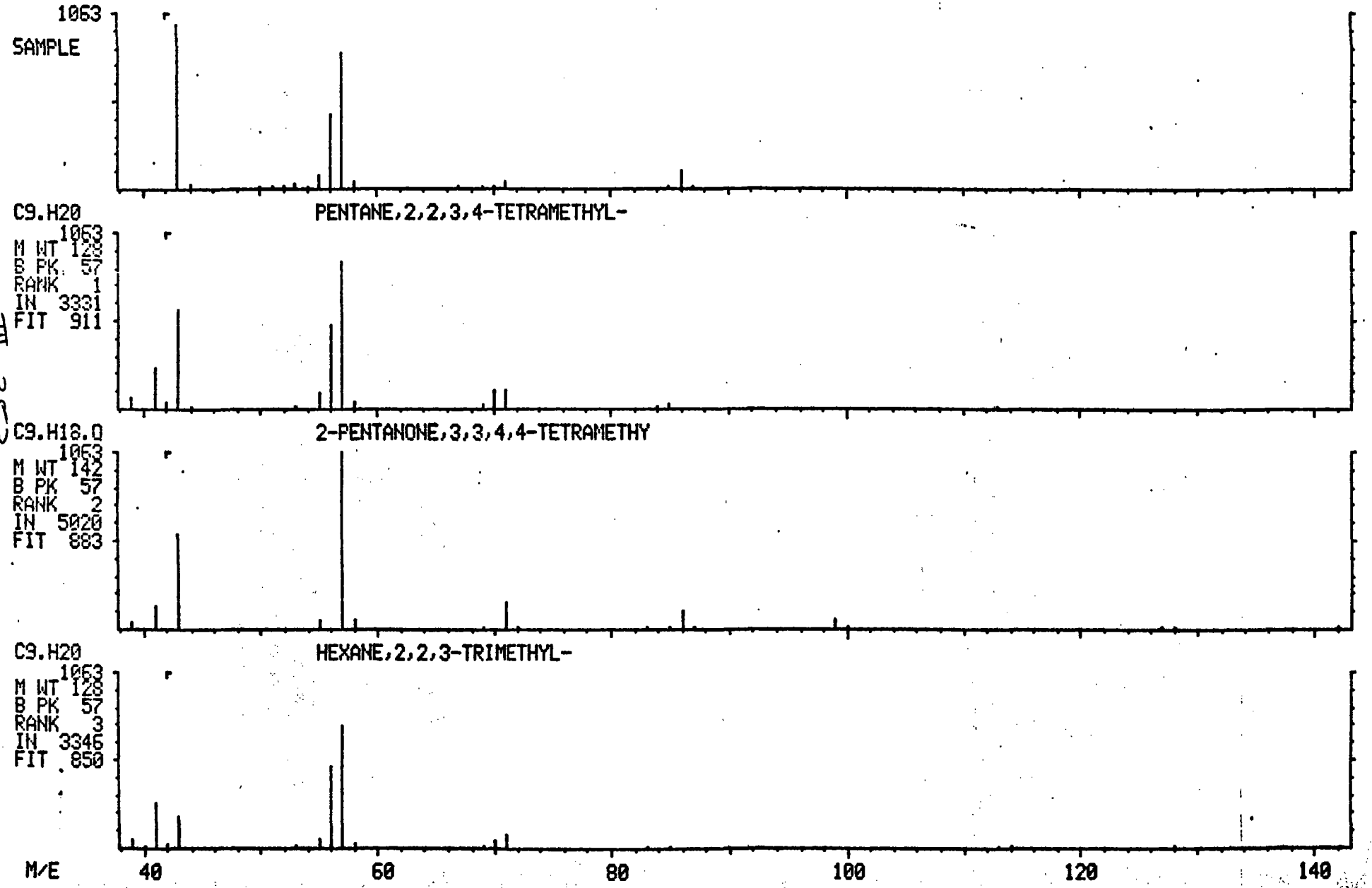


II 352

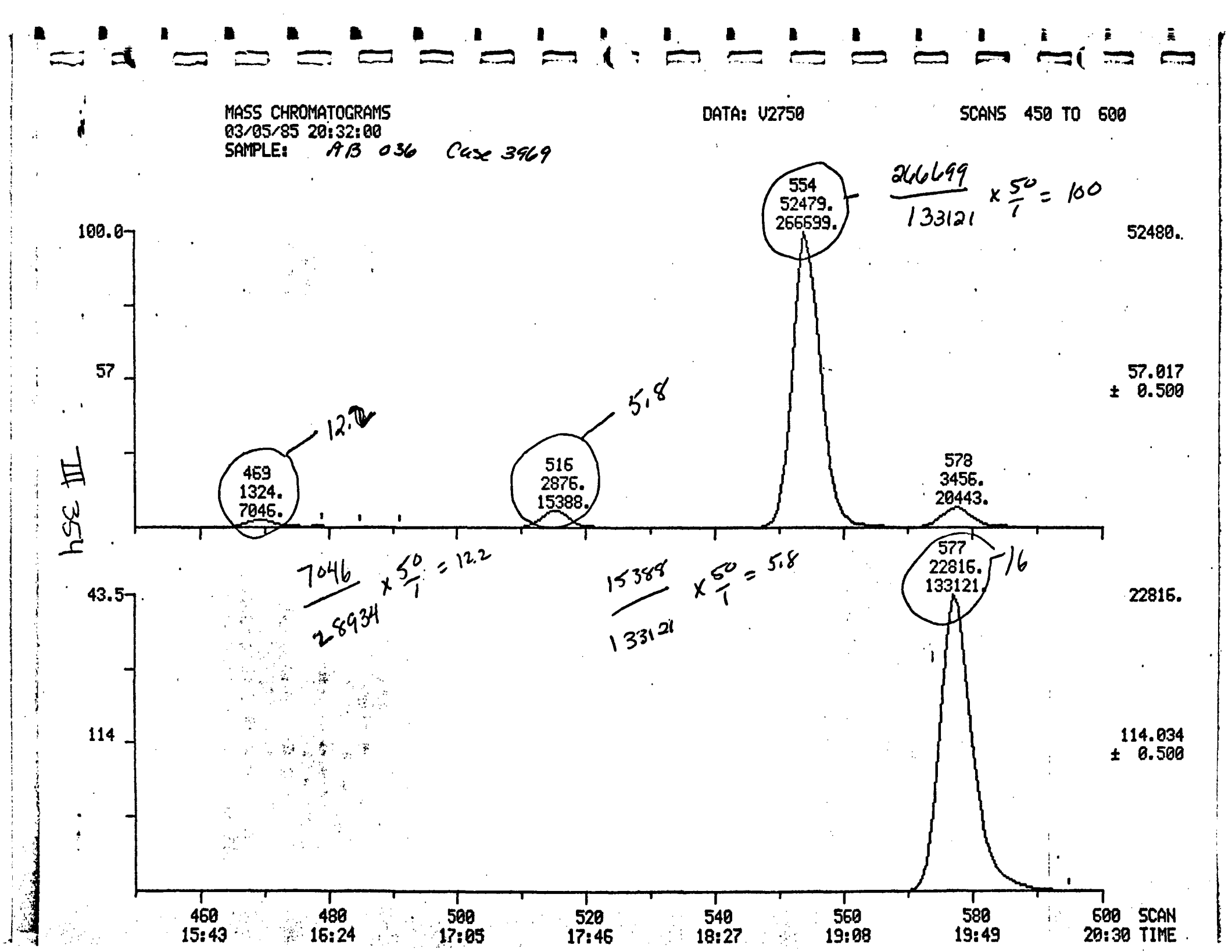
LIBRARY SEARCH
03/05/85 20:32:00 + 18:56
SAMPLE: AB 036 Case 3469
ENHANCED (S 15B 2N 0T)

DATA: V2750 # 554

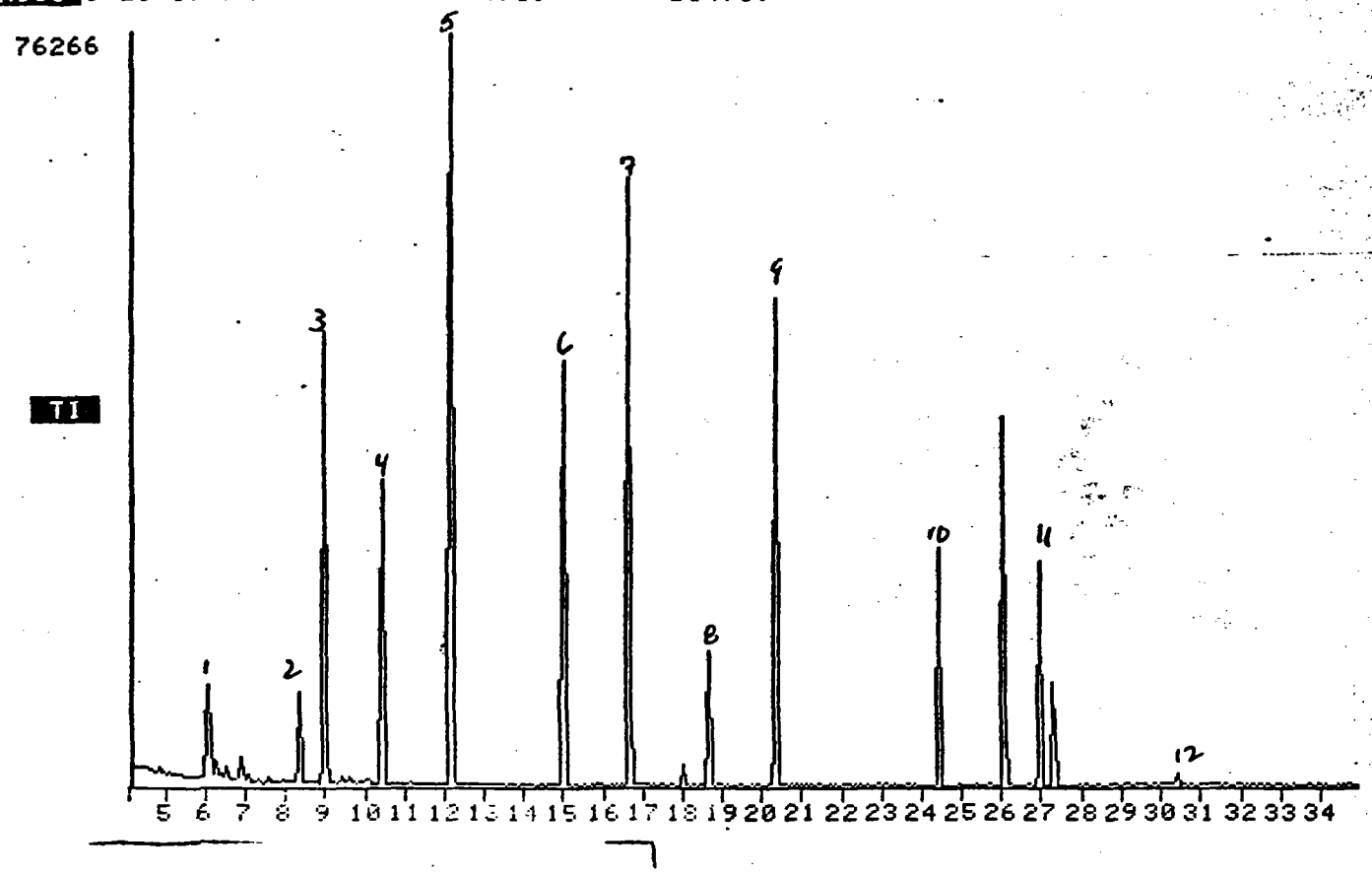
BASE M/E: 43
RIC: 165631.



III 353


MASS CHROMATOGRAMS
03/05/85 20:32:00
SAMPLE: AB 036 Cax 3969
DATA: V2750
SCANS 450 TO 600
100.0
57
469
1324.
7046.
516
2876.
15388.
554
52479.
266699.
578
3456.
20443.
52480.
57.017
± 0.500
12.2
5.8
266699 / 133121 x 50/1 = 100
7046 / 28934 x 50/1 = 12.2
15388 / 133121 x 50/1 = 5.8
43.5
114
577
22816.
133121.
1/6
22816.
114.034
± 0.500
460 15:43
480 16:24
500 17:05
520 17:46
540 18:27
560 19:08
580 19:49
600 SCAN
20:30 TIME

MISC 3/25/85/EM BTL#28 Q14769 D14769



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

III 355

FILE NUMBER 14769

43225 AB036 CASE 3969

3/25/85/EM BTL#28 Q14769 D14769

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
9.9	74.0	.046	.0000	N-NITROSODIMETHYLAMINE			
8.4	93.0	.913	.0000	ANILINE			
8.5	93.0	.709	.0000	BIS(2-CHLOROETHYL)ETHER			
8.9	146.0	.591	.0000	1,3-DICHLOROBENZENE			
9.0	146.0	.594	.0000	1,4-DICHLOROBENZENE			
9.5	108.0	.395	.0000	BENZYL ALCOHOL			
9.5	146.0	.594	.0000	1,2-DICHLOROBENZENE			
9.9	45.0	.527	.0000	BIS(2-CHLOROISOPROPYL)ETHER			
10.2	70.0	.490	.0000	N-NITROSODINPROPYLAMINE			
10.2	117.0	.291	.0000	HEXACHLOROETHANE			
10.5	77.0	.716	.0000	NITROBENZENE			
12.2	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.1	138.0	1.519	.0000	ISOPHORONE			
11.8	95.0	1.813	.0000	BIS(2-CHLOROETHOXY)METHANE			
12.1	180.0	2.642	.0000	1,2,4-TRICHLOROBENZENE			
12.2	129.0	1.325	.0000	NAPHTHALENE			
12.5	127.0	4.577	.0000	4-CHLOROANILINE			
12.7	225.0	1.190	.0000	HEXACHLOROBUTADIENE			
14.0	115.0	2.578	.0000	2-METHYLNAPHTHALENE			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE			
14.6	237.0	.205	.0000	HEXACHLOROCYCLOPENTADIENE			
15.2	164.0	.281	.0000	2-CHLORONAPTHALENE			
15.6	138.0	.397	.0000	2-NITROANILINE			
16.2	164.0	.083	.0000	DIMETHYL PHTHALATE			
16.3	151.0	.272	.0000	ACENAPHTHYLENE			
16.4	165.0	.228	.0000	2,6-DINITROTOLUENE			
16.7	138.0	.293	.0000	3-NITROANILINE			
16.8	152.0	.437	.0000	ACENAPHTHENE			
17.2	139.0	.490	.0000	DIBENZOFURAN			
17.3	165.0	.320	.0000	2,4-DINITROTOLUENE			
18.0	177.0	.171	.0000	DIETHYL PHTHALATE			
18.0	165.0	.820	.0000	FLUORENE			
18.1	204.0	.358	.0000	4-CHLOROPHENYLPHENYL ETHER			
18.2	138.0	.292	.0000	4-NITROANILINE			
17.2	169.0	.144	.0000	DIPHENYLAMINE			

III 356

20.3	188.0	1.000	80.0000	D10-PHENANTHRENE(20)
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER
19.6	284.0	.112	.0000	HEXACHLOROBENZENE
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE
23.4	202.0	.665	.0000	FLUORANTHENE

FILE NUMBER 14769

43225 AB036 CASE 3969

3/25/85/EM BTL#28 Q14769 D14769

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
27.0	240.0	1.000	80.0000				D12-CHRYSENE
23.9	202.0	2.264	.0000				PYRENE
25.8	149.0	1.136	.0000				BUTYL BENZYL PHTHALATE
26.9	228.0	.427	.0000	✓			BENZO(A)ANTHRACENE/CHRYSENE
27.3	149.0	1.128	29.3046	✓			BIS(2-ETHYLHEXYL)PHTHALATE

30.4	264.0	1.000	80.0000				D12-PERYLENE
28.7	149.0	5.974	~~3.6510~~	EM			DIOCTYL PHTHALATE
29.5	252.0	1.307	.0000				BENZO(B)/(K)FLUORANTHENE
30.2	252.0	.744	.0000				BENZO(A)PYRENE
33.7	276.0	.485	.0000				INDENO(123-CD)PYRENE
33.8	278.0	.346	.0000				DIBENZO(AH)ANTHRACENE
34.6	276.0	.360	.0000				BENZO(GHI)PERYLENE

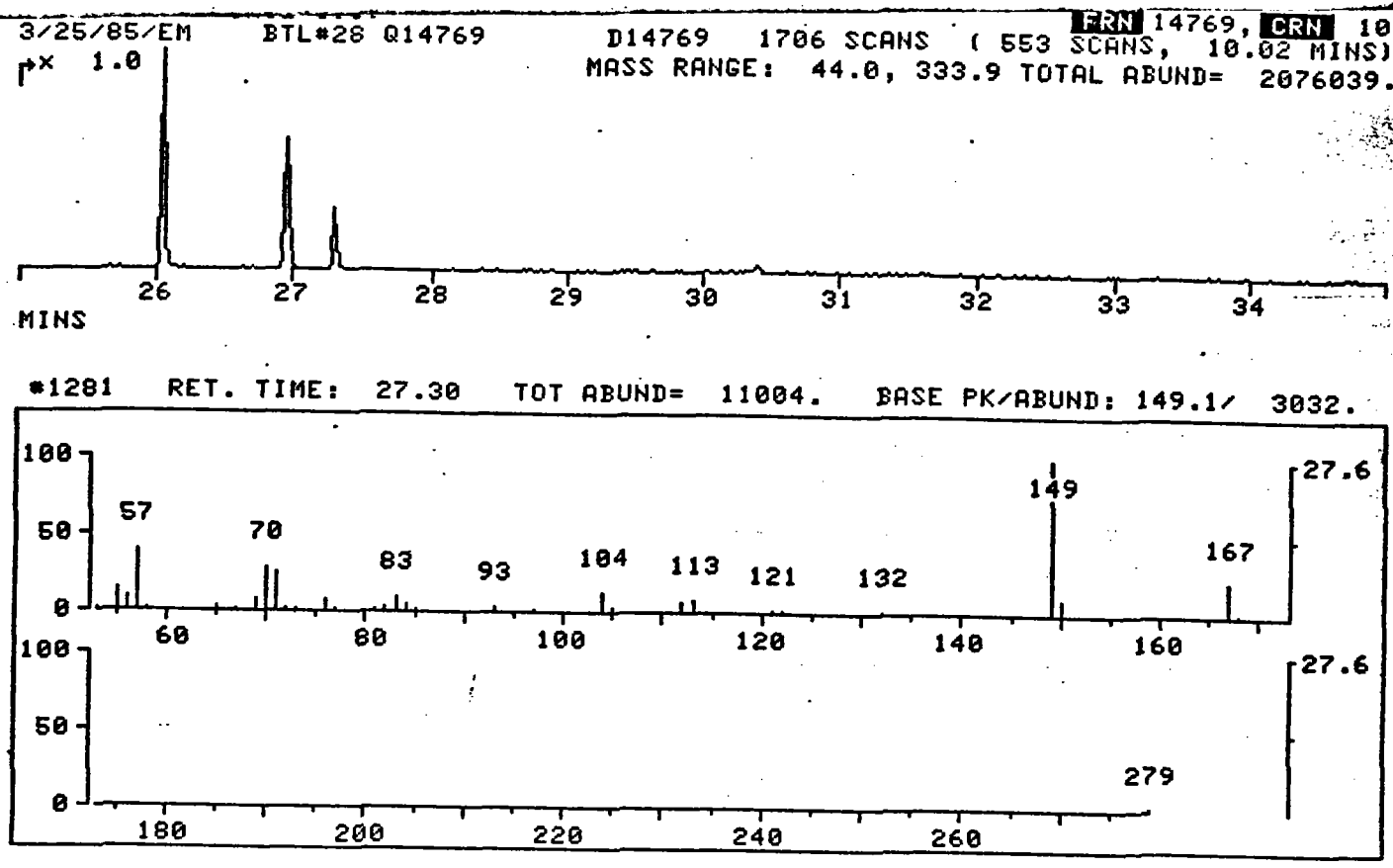
27.0	240.0	1.000	80.0000	D12-CHRYSENE
23.8	184.0	.712	.0000	BENZIDINE
27.0	252.0	.146	.0000	DICHLOROBENZIDINE

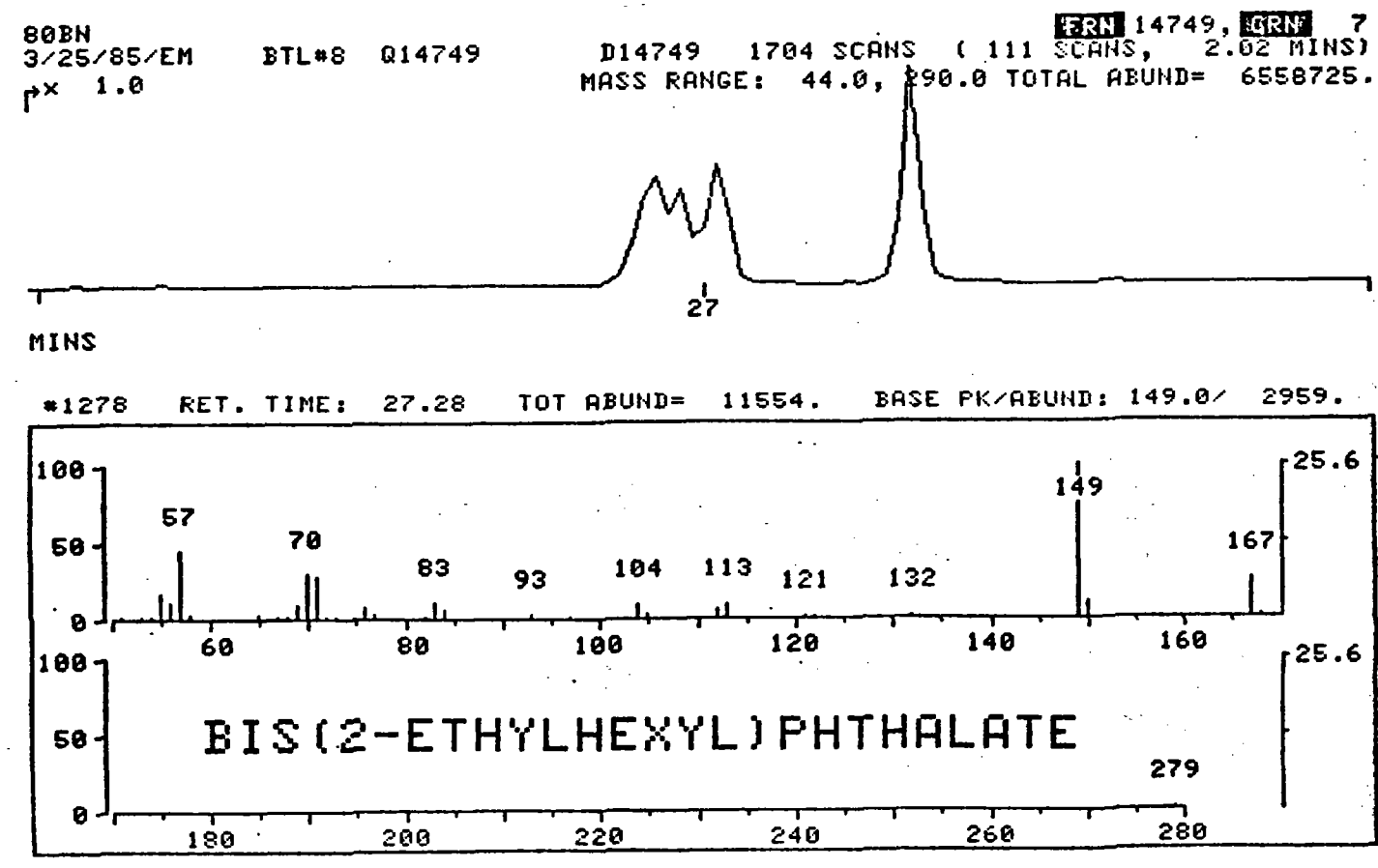
FILE NUMBER 14769

43225 AB036 CASE 3969

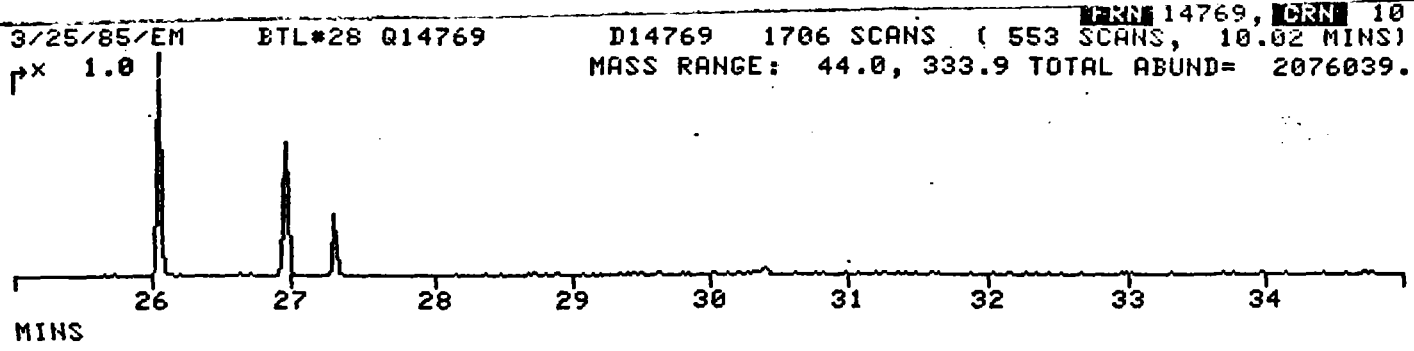
3/25/85/EM BTL#28 Q14769 D14769

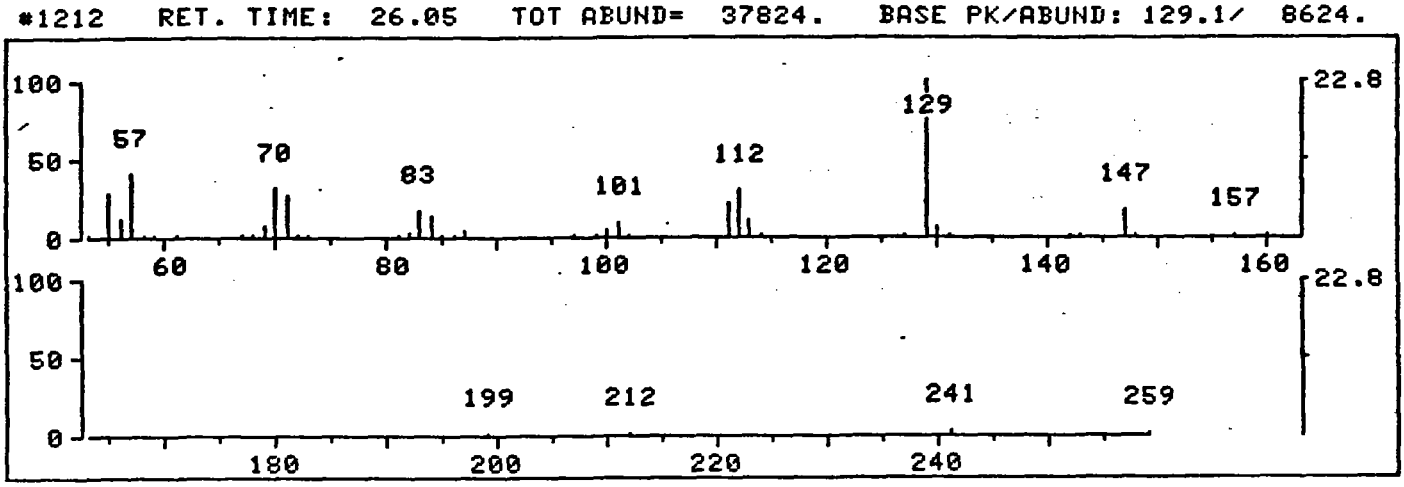
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.2	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

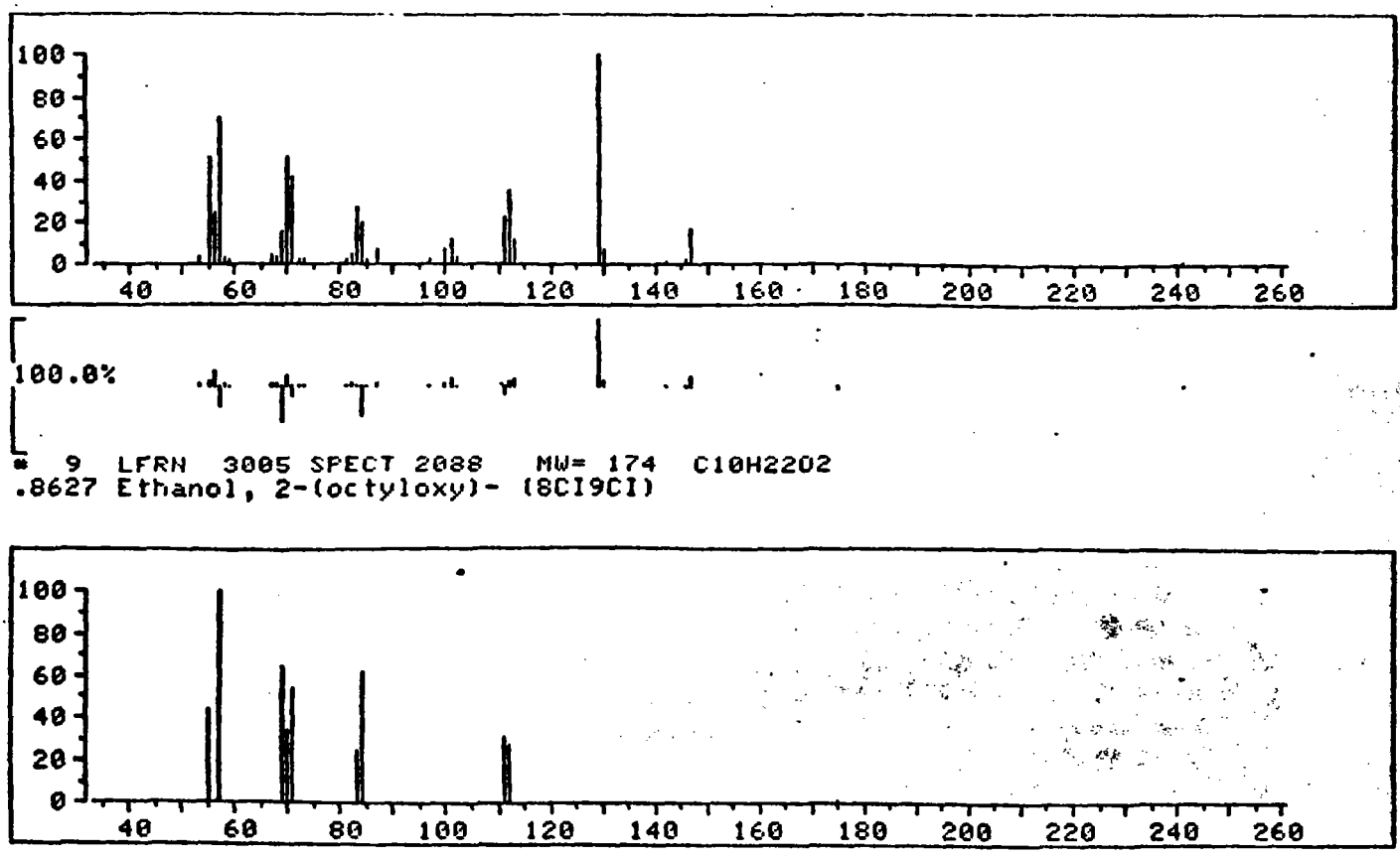

3/25/85/EM BTL#28 Q14769 D14769 1706 SCANS (553 SCANS, 10.02 MINS)
FRN 14769, CRN 10
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2076039.
1.0
MINS
*1281 RET. TIME: 27.30 TOT ABUND= 11004. BASE PK/ABUND: 149.1/ 3032.
27.6
27.6


80BN
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (111 SCANS, 2.02 MINS)
FRN 14749, GRN 7
MASS RANGE: 44.0, 290.0 TOTAL ABUND= 6558725.
1.0
MINS
*1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.
25.6
25.6
BIS(2-ETHYLHEXYL)PHTHALATE

III
359


LFRN 14769, CRN 10
3/25/85/EM BTL#28 Q14769 D14769 1706 SCANS (553 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2076039.
1.0
26
27
28
29
30
31
32
33
34
MINS


#1212 RET. TIME: 26.05 TOT ABUND= 37824. BASE PK/ABUND: 129.1/ 8624.
100
50
0
57
70
83
101
112
129
147
157
22.8
60
80
100
120
140
160
199
212
241
259
180
200
220
240


100
80
60
40
20
0
40
60
80
100
120
140
160
180
200
220
240
260
100.0%
9 LFRN 3005 SPECT 2088 MW= 174 C10H22O2
.8627 Ethanol, 2-(octyloxy)- (8CI9CI)

III 360

AREA TABLE ENTRIES: FRN 14769

Entry	Time	Mass	Area	%
1	27.0	239.7	13436.	100.0
2	26.0	TI	60370.	449.3

CALCULATE % ON ENTRY #:

Date 3/30/85 Analyst BC Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

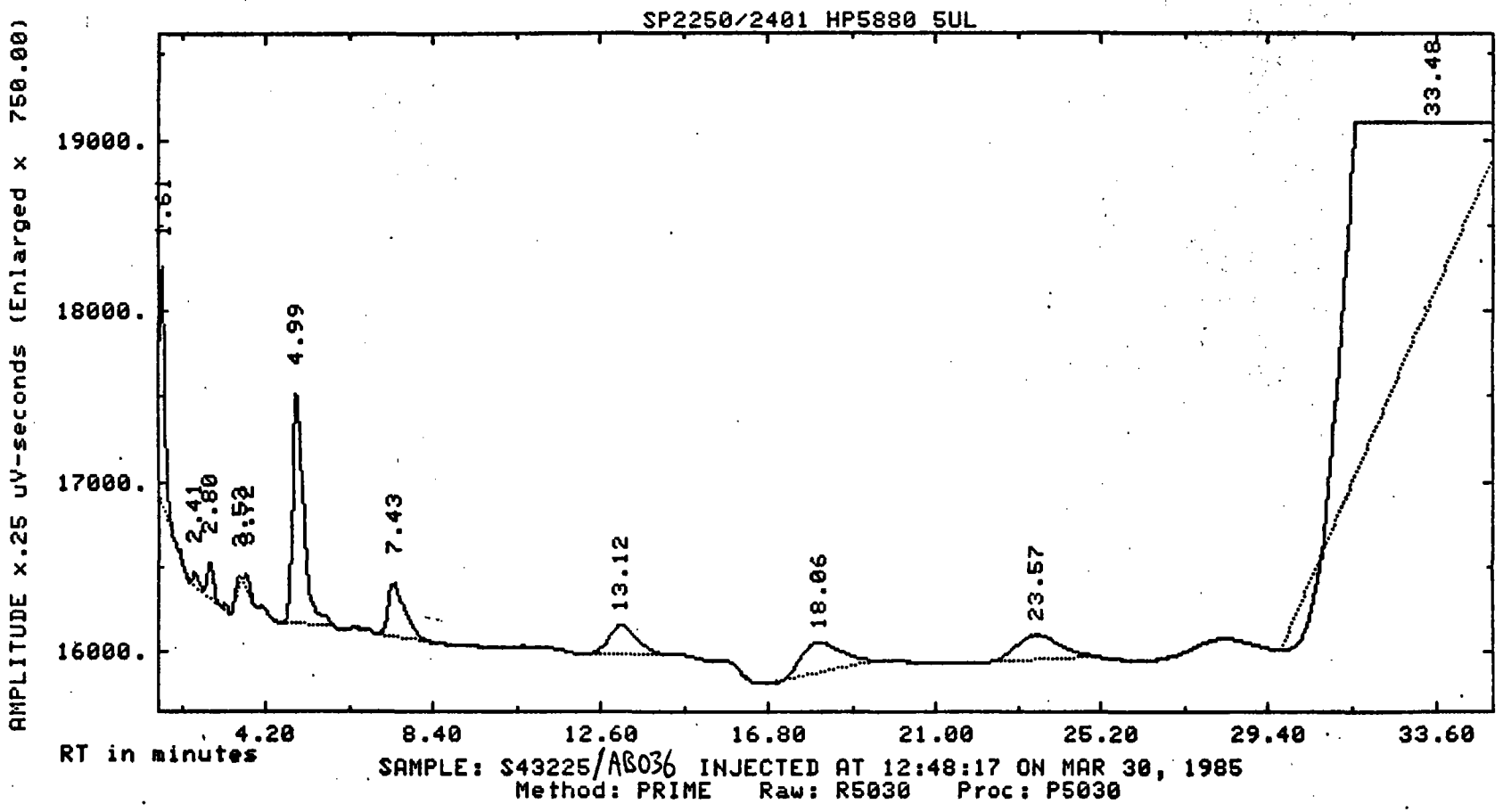
Case # 3969

Sample I.D. 43225/AB036 HP 5880
Run # 30 Bottle # 30

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
3.53	δ-BHC	0.28	<5.0	x10 ÷ 1000 =	<0.05	
	DBC obscured by peak at 33 min					

GCA CORPORATION
Technology Division

Case 3969



II 303

*LI,P,P5030

PROCESSED DATA FILE: P5030 ON CRN 21 Case 3969

APR 2, 1985 11:42:53

REPORT: 126 CHANNEL: 2 % PEAKS: -14 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.24	0.00	1.00000	247366	BV	12.210	
2	1.61	0.00	1.00000	5824	VB	.287	
3	2.41	0.00	1.00000	380	BV	.019	
4	2.80	0.00	1.00000	1214	VB	.060	
5	3.53	0.00	1.00000	278	BB	.014	
6	3.72	0.00	1.00000	330	BB	.016	
7	4.99	0.00	1.00000	13412	BB	.662	
8	7.43	0.00	1.00000	4478	BB	.221	
9	13.12	0.00	1.00000	4057	BB	.200	
10	18.05	0.00	1.00000	6207	BB	.306	
11	23.57	0.00	1.00000	5584	BB	.276	
12	33.48	0.00	1.00000	1547276	BV	76.372	
13	37.39	0.00	1.00000	161391	VV	7.966	
14	39.00	0.00	1.00000	28177	VF	1.391	

TOTAL AREA = 2025977 TOTAL AREA % = 100.000

SAMPLE: S43225/AB036 INJECTED AT 12:48:17 ON MAR 30, 1985

ZERO METHOD: PRIME SEQ: SM03 SUBSQ/SAMP: 1 / 30 BTL: 30

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	NO

ACTUAL RUN TIME: 40.008 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: R5030 PARAM FILES= METHOD: SEQ:

DONE
READY

ORGANICS TRAFFIC REPORT

AB 037

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:
GCA
213 Burlington Rd.
Bedford, MA 01730
Attn: Gary Hunt

Transfer Ship To:

⑤ Regional Office: I

Sampling Personnel:
John Williams (Name)
(617) 742-5151 (Phone)

Sampling Date:
2/28/85 (Begin) 2/28/85 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	80 oz
Water (VOA)	2	40 ml
Soil/Sediment (Extractable)		
Soil/Sediment (VOA)		
Other		

⑪ Analysis Lab:
Rec'd by: M. Lenna
Date Rec'd: 3/1/85
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
No sample tags

⑦ Shipping Information

Hand-carried
Name of Carrier

Date Shipped:

Airbill Number:

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MAA017

TABLE COPY III 365

AB 037

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: GCA
Sample ID No: 43241
Sample Matrix: water
Data Release Authorized By:

Case No: 3969
QC Report No: 3969
Contract No: 68-01-6767
Date Sample Received: 3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3/5/85
Date Analyzed: 3/5/85
Conc/Dil Factor: 1 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

ET mr 5/2/85 R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	[illegible]
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	[illegible] R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	[illegible]
78-87-5	1, 2-Dichloropropane	[illegible]
10061-02-6	Trans-1, 3-Dichloropropene	[illegible]
79-01-6	Trichloroethene	[illegible]
124-48-1	Dibromochloromethane	[illegible]
79-00-5	1, 1, 2-Trichloroethane	[illegible]
71-43-2	Benzene	[illegible]
10061-01-5	cis-1, 3-Dichloropropene	[illegible]
110-75-8	2-Chloroethylvinylether	[illegible]
75-25-2	Bromoform	[illegible]
591-78-6	2-Hexanone	[illegible]
108-10-1	4-Methyl-2-Pentanone	[illegible]
127-18-4	Tetrachloroethene	[illegible]
108-88-3	Toluene	[illegible]
108-90-7	Chlorobenzene	[illegible]
100-41-4	Ethylbenzene	[illegible]
100-42-5	Styrene	[illegible]
	Total Xylenes	[illegible]

Data Reporting Qualifiers

[illegible]

* See narrative

Value [illegible]

U Indicates compound was [illegible] ... Compound was analyzed [illegible] but not detected ... the sample.

J Indicates an estimated value [illegible]

C This flag [illegible] parameters where the [illegible] GC/MS [illegible]

B This flag [illegible] the analyte is found in the blank [illegible] warns the data user to take appropriate action.

Other [illegible]

III 366

4/84

Environmental Protection Agency. CLP Sample Management Office.
P O Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
A6037

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 10 & 1 one

E Imm 5/3/85 R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1,3-Dichlorobenzene	10u
106-46-7	1,4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1,2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis 2-chloroisopropyl Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2,4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxyl)Methane	10u
120-83-2	2,4 Dichlorophenol	10u
120-82-1	1,2,4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Metoylnaphtalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2,4,6-Trichlorophenol	10u
95-95-4	2,4,5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2,4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2,4-Dinitrotoluene	10u
606-20-2	2,6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4,6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3,3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	20 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1,2,3-cd)Pyrene	10u
53-70-3	Dibenzo(a,h)Anthracene	10u
191-24-2	Benzo(g,h,i)Perylene	10u

(1) Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB037

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 3/30/85

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

CT-mm 5/15/85 VOA

Disregard CT-mm 5/15/85

JM Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB037

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Compounds Found	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

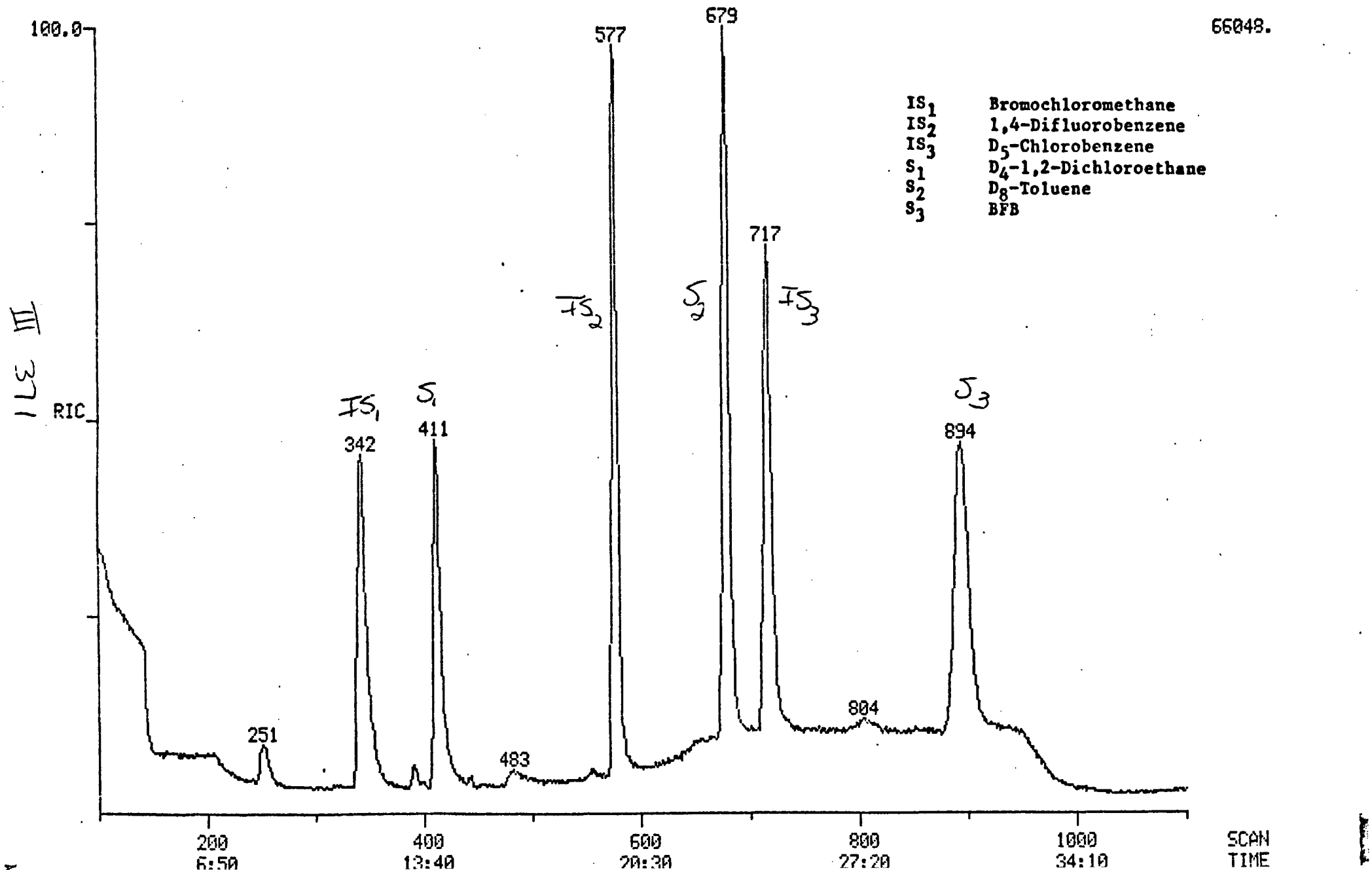
Sample Number
AB 037

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	B/A	26.0	172 J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

III 370


RIC
03/05/85 21:15:00
SAMPLE: AB 034 Case 3969
DATA: V2751
SCANS 100 TO 1100
100.0
66048.
RIC
IS1 Bromochloromethane
IS2 1,4-Difluorobenzene
IS3 D5-Chlorobenzene
S1 D4-1,2-Dichloroethane
S2 D8-Toluene
S3 BFB
342
411
577
679
717
894
251
483
804
200
6:50
400
13:40
600
20:30
800
27:20
1000
34:10
SCAN
TIME

FINNIGAN ORGANICS IN WATER ANALYZER
QUANTITATION REPORT FILE: V2751

DATA: V2751.TI
03/05/85 21:15:00
SAMPLE:
SUBMITTED BY: ANALYST:

AB-037 Case 3969

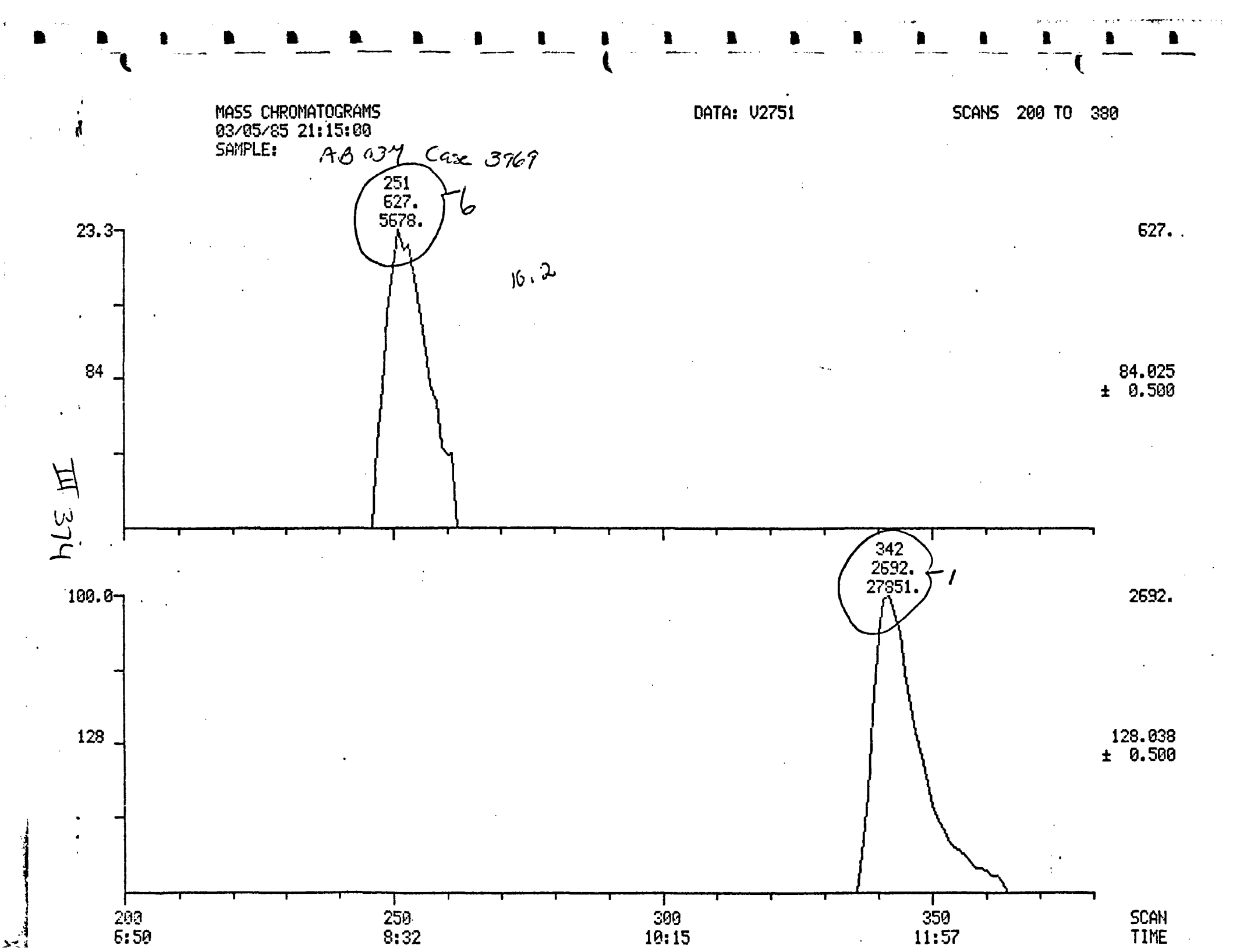
AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

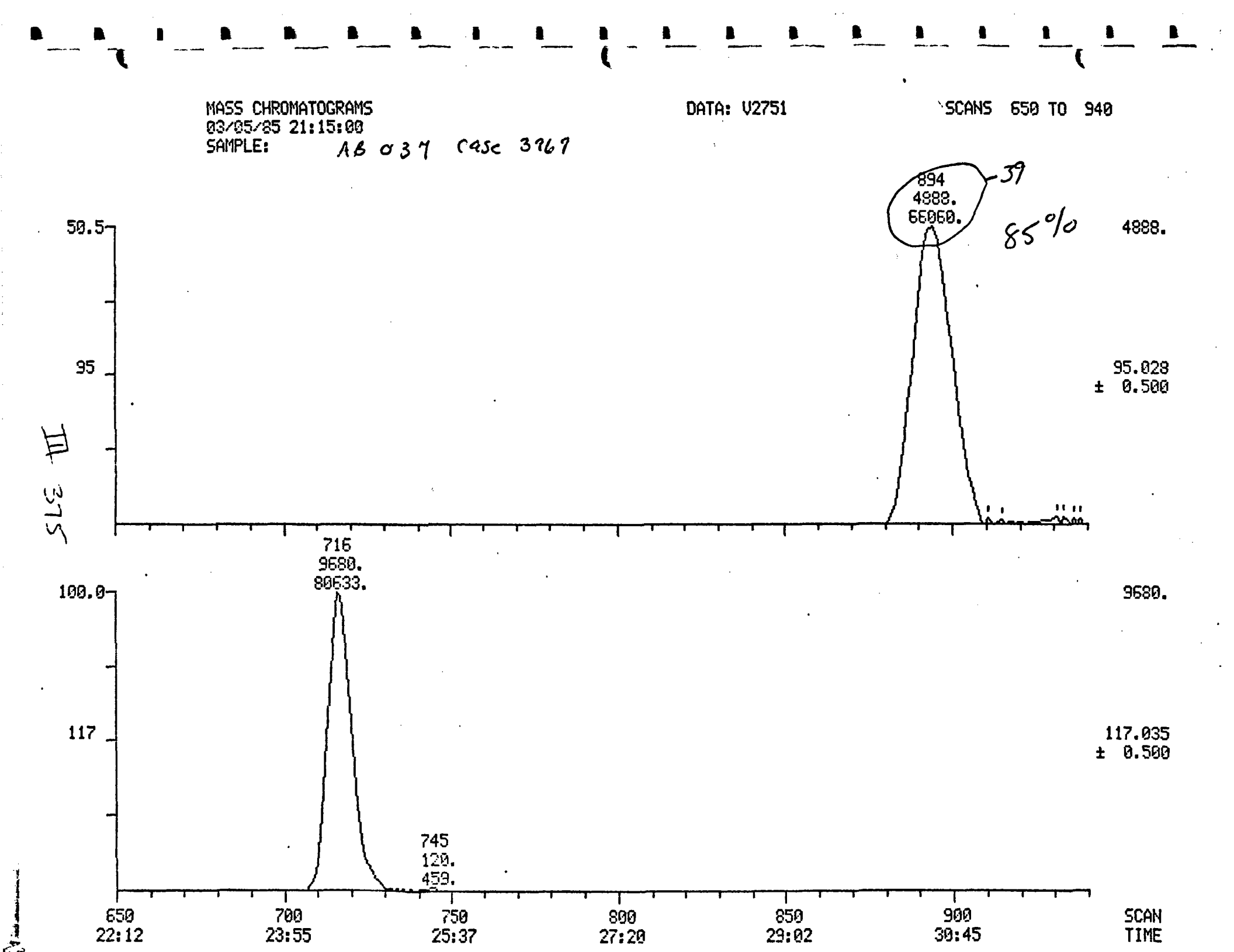
NO	NAME
1	BROMOCHLOROMETHANE(I.S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS 1,2-DICHLOROETHENE
12	CHLOROFORM
13	1,2-DICHLOROETHANE
14	D4-1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	1,4-DIFLUROBENZENE(I.S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS 1,3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	BENZENE
27	CIS-1,3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I.S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1,1,2,2,TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

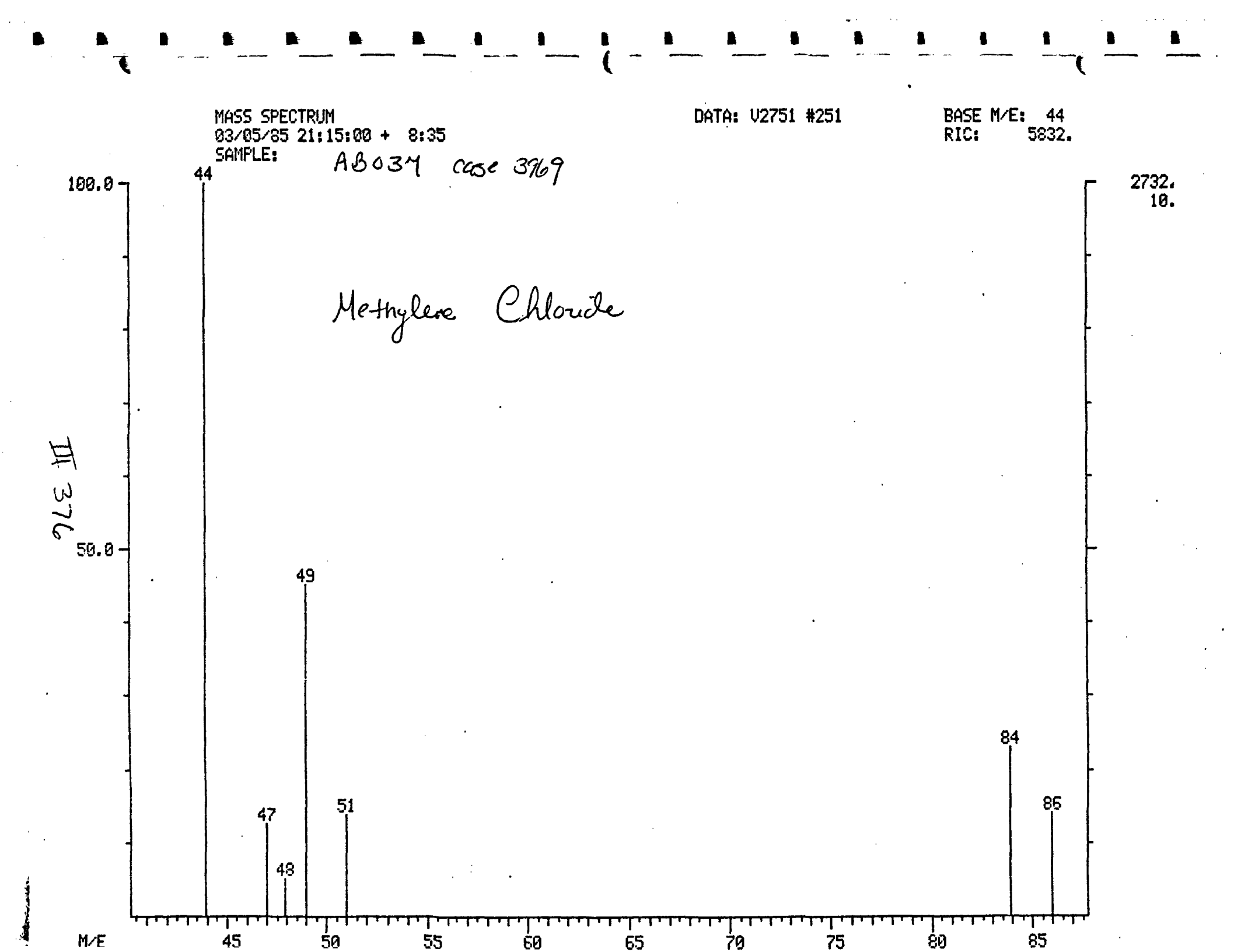
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	342	11:41	1	1.000	A BB	27851.	50.000 UG/L	15.17
2	NOT FOUND								
3	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	65	411	14:03	1	1.202	A BB	88495.	87.639 %REC	26.59
15	NOT FOUND								
16	114	577	19:43	16	1.000	A BB	114086.	50.000 UG/L	15.17
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	98	679	23:12	16	1.177	A BB	127564.	91.963 %REC	27.90
30	NOT FOUND								
31	117	716	24:28	31	1.000	A BB	79259.	50.000 UG/L	15.17
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								

AB-034 Pax 3569


MASS CHROMATOGRAMS
03/05/85 21:15:00
SAMPLE: AB 034 Case 3969
DATA: V2751
SCANS 200 TO 380
251
627.
5678.
6
10.2
23.3
84
627..
84.025
± 0.500
342
2692.
27851.
1
100.0
128
2692.
128.038
± 0.500
200
6:50
250
8:32
300
10:15
350
11:57
SCAN
TIME

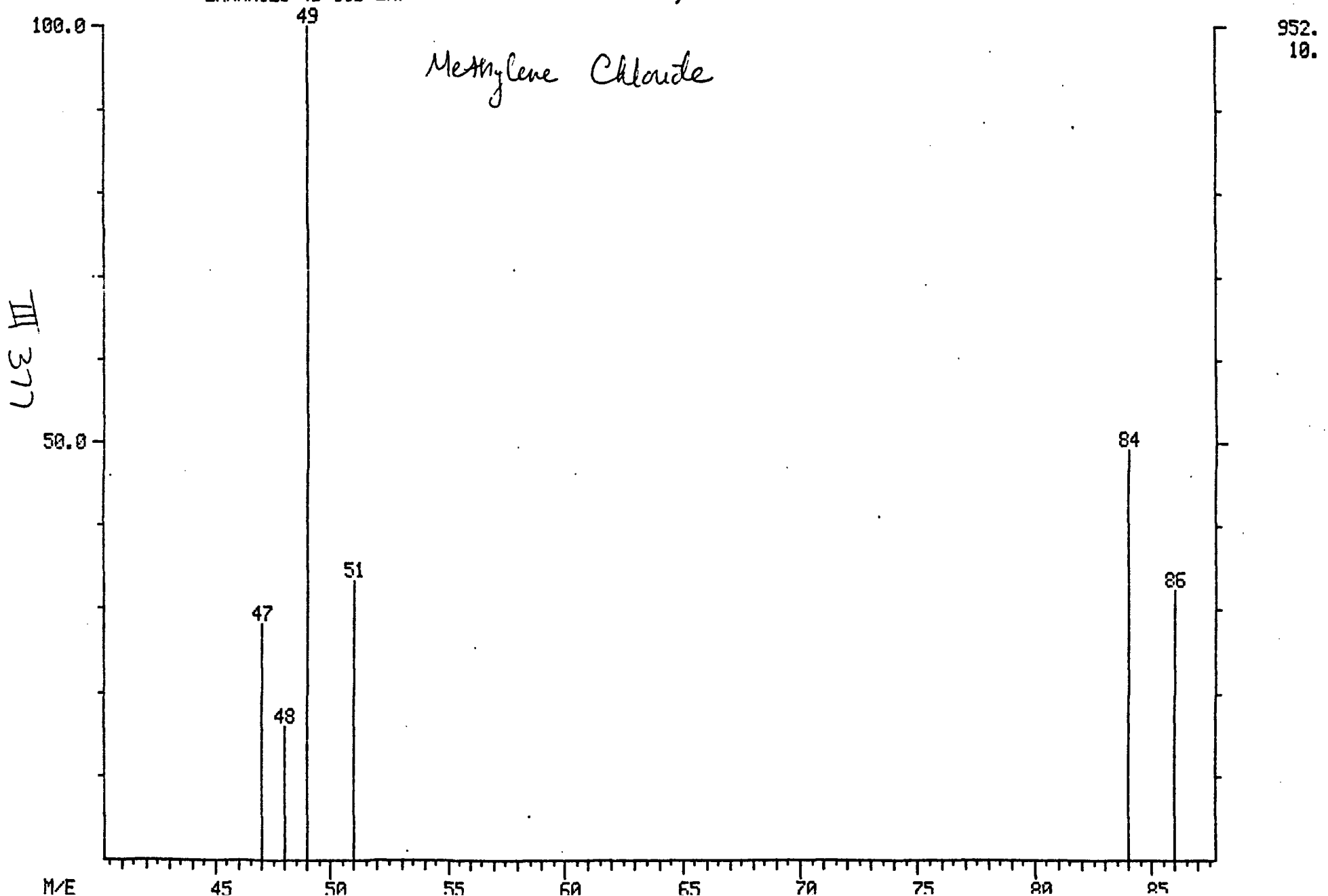

MASS CHROMATOGRAMS
03/05/85 21:15:00
SAMPLE: AB 037 Case 3969
DATA: V2751
SCANS 650 TO 940
894
4988.
66060.
39
85%
50.5
95
4888.
95.028
± 0.500
716
9680.
80633.
100.0
117
9680.
117.035
± 0.500
745
120.
459.
650
22:12
700
23:55
750
25:37
800
27:20
850
29:02
900
30:45
SCAN
TIME


MASS SPECTRUM
03/05/85 21:15:00 + 8:35
SAMPLE: AB034 case 3969
DATA: V2751 #251
BASE M/E: 44
RIC: 5832.
100.0
50.0
2732.
10.
44
49
47
48
51
84
86
M/E
45
50
55
60
65
70
75
80
85
Methylene Chloride
IR 376

MASS SPECTRUM
03/05/85 21:15:00 + 8:35
SAMPLE:
ENHANCED (S 15B 2N) A8034 Case 3969

DATA: V2751 #251

BASE M/E: 49
RIC: 2476.



Methylene Chloride

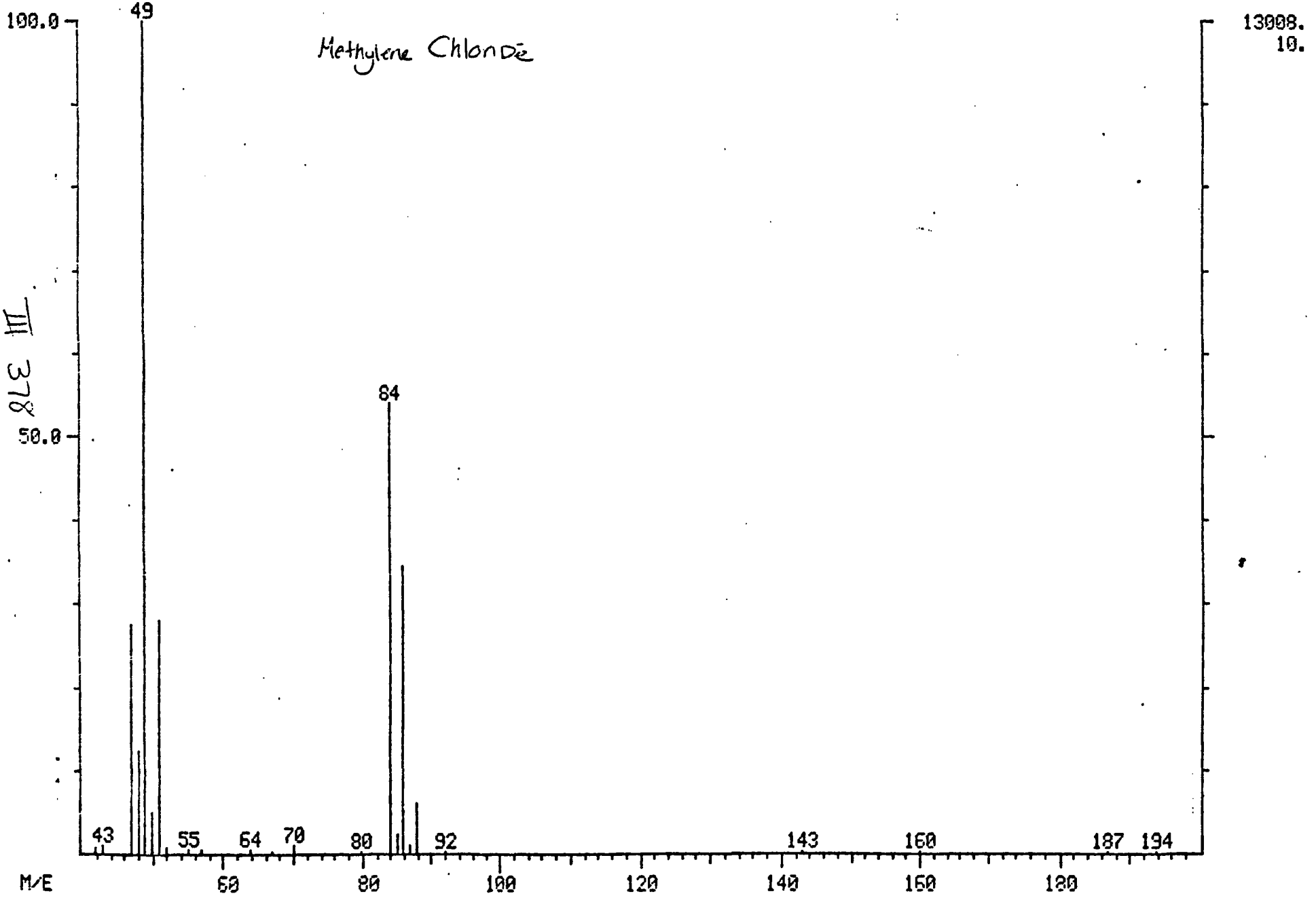
III 371

MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)

Case 3969 100 ppb

DATA: V2708 #248

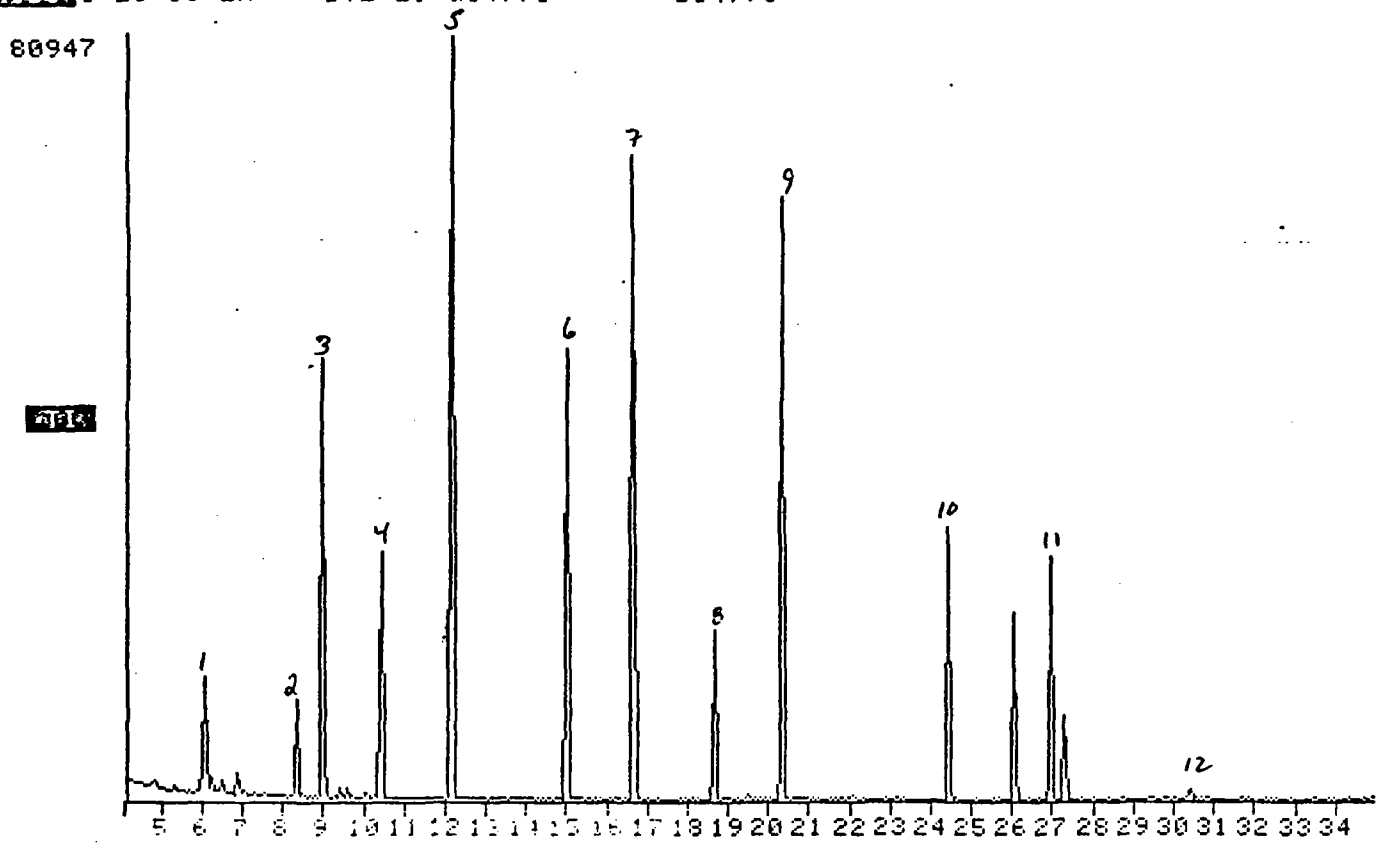
BASE M/E: 49
RIC: 36224.



Methylene Chloride

III 378

NAME 43226 AB037 CASE 3969 FRN 14770
DATE 3/25/85/EM BTL#29 Q14770 D14770



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

FILE NUMBER 14770

43226 AB037 CASE 3969

3/25/85/EM BTL#29 Q14770 D14770

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
9.9	74.0	.046	.0000	N-NITROSODIMETHYLAMINE			
8.4	93.0	.913	.0000	ANILINE			
8.5	93.0	.709	.0000	BIS(2-CHLOROETHYL)ETHER			
8.9	146.0	.591	.0000	1,3-DICHLOROBENZENE			
9.0	146.0	.594	.0000	1,4-DICHLOROBENZENE			
9.5	108.0	.395	.0000	BENZYL ALCOHOL			
9.5	146.0	.594	.0000	1,2-DICHLOROBENZENE			
9.9	45.0	.527	.0000	BIS(2-CHLOROISOPROPYL)ETHER			
10.2	70.0	.490	.0000	N-NITROSODINPROPYLAMINE			
10.2	117.0	.291	.0000	HEXACHLOROETHANE			
10.5	77.0	.716	.0000	NITROBENZENE			
12.2	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.1	138.0	1.519	.0000	ISOPHORONE			
11.8	95.0	1.813	.0000	BIS(2-CHLOROETHOXY)METHANE			
12.1	180.0	2.642	.0000	1,2,4-TRICHLOROBENZENE			
12.2	129.0	1.325	.0000	NAPHTHALENE			
12.5	127.0	4.577	.0000	4-CHLOROANILINE			
12.7	225.0	1.190	.0000	HEXACHLOROBUTADIENE			
14.0	115.0	2.578	.0000	2-METHYLNAPHTHALENE			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE			
14.6	237.0	.205	.0000	HEXACHLOROCYCLOPENTADIENE			
15.2	164.0	.281	.0000	2-CHLORONAPTHALENE			
15.6	138.0	.397	.0000	2-NITROANILINE			
16.2	164.0	.083	.0000	DIMETHYL PHTHALATE			
16.3	151.0	.272	.0000	ACENAPHTHYLENE			
16.4	165.0	.228	.0000	2,6-DINITROTOLUENE			
16.7	138.0	.293	.0000	3-NITROANILINE			
16.8	152.0	.437	.0000	ACENAPHTHENE			
17.2	139.0	.490	.0000	DIBENZOFURAN			
17.3	165.0	.320	.0000	2,4-DINITROTOLUENE			
18.0	177.0	.171	.0000	DIETHYL PHTHALATE			
18.0	165.0	.820	.0000	FLUORENE			
18.1	204.0	.358	.0000	4-CHLOROPHENYLPHENYL ETHER			
18.2	138.0	.292	.0000	4-NITROANILINE			
17.2	169.0	.144	.0000	DIPHENYLAMINE			

III 380

43226 AB037 CASE 3969
3/25/85/EM BTL#29 Q14770 D14770

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.4	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	19.5138	BIS(2-ETHYLHEXYL)PHTHALATE			
30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	.0000	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

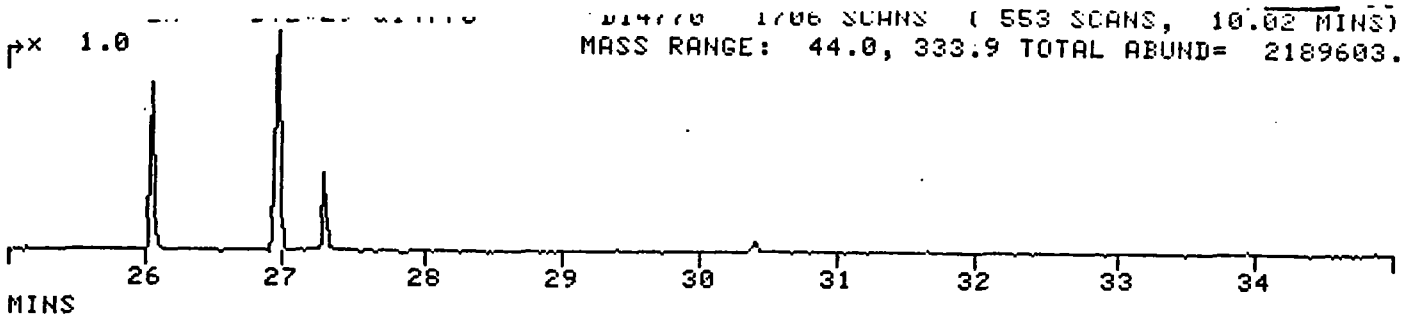
FILE NUMBER 14770

43226 AB037 CASE 3969

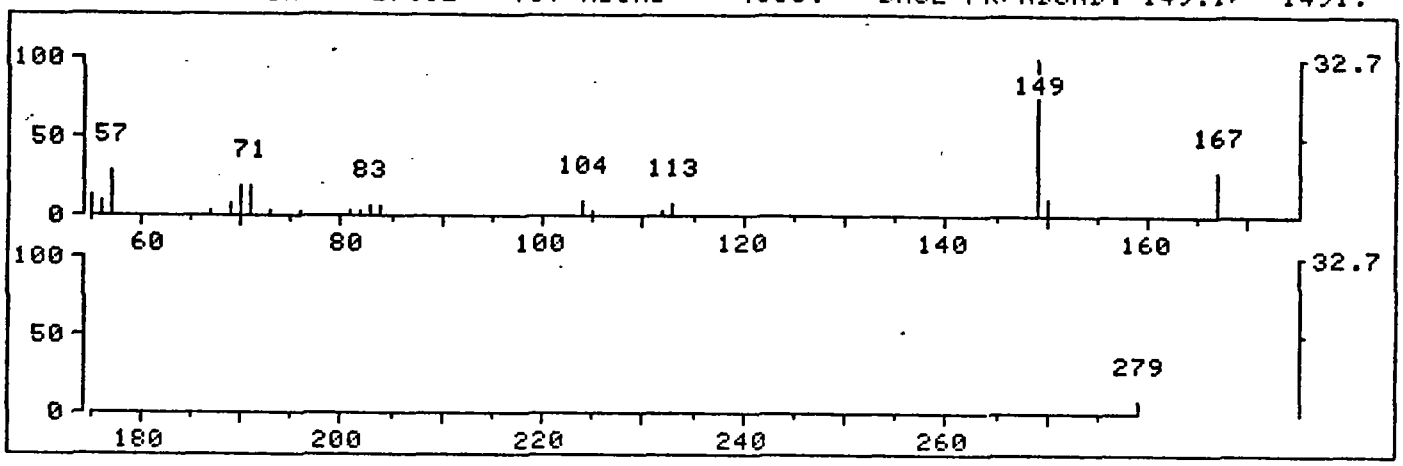
3/25/85/EM BTL#29 Q14770 D14770

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.2	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.4	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

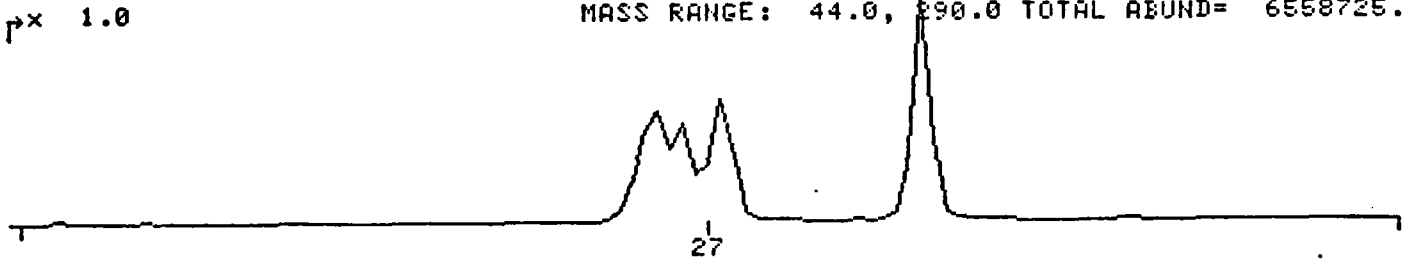
D14770 1706 SCANS (553 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2189603.



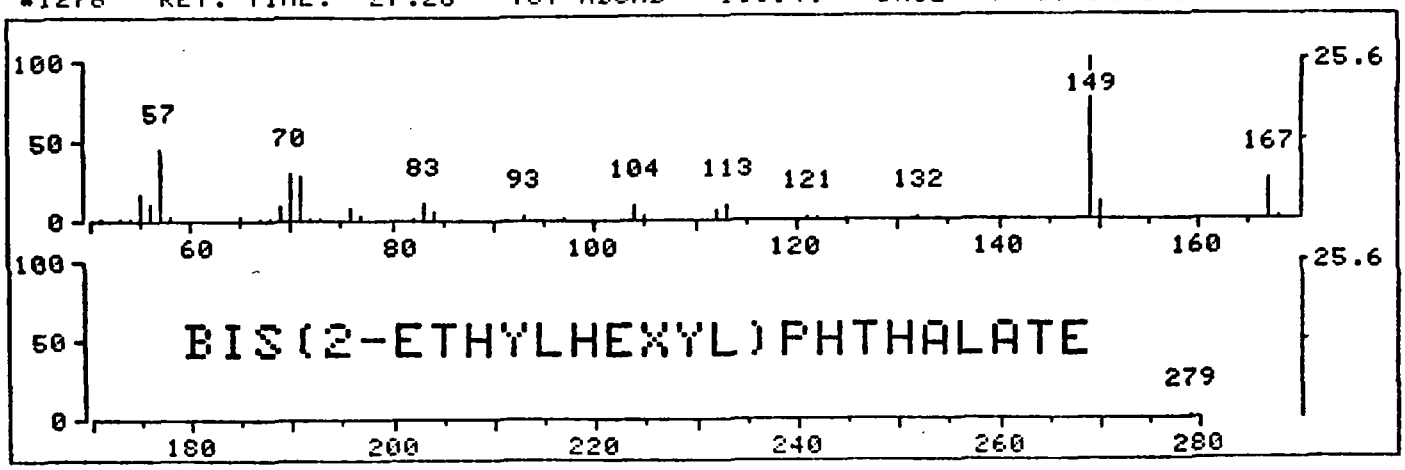
#1282 RET. TIME: 27.32 TOT ABUND= 4565. BASE PK/ABUND: 149.1/ 1491.



80BN
3/25/85/EM BTL#8 Q14749 D14749 1704 SCANS (111 SCANS, 2.02 MINS)
SRN 14749, BRN 7
MASS RANGE: 44.0, 290.0 TOTAL ABUND= 6558725.

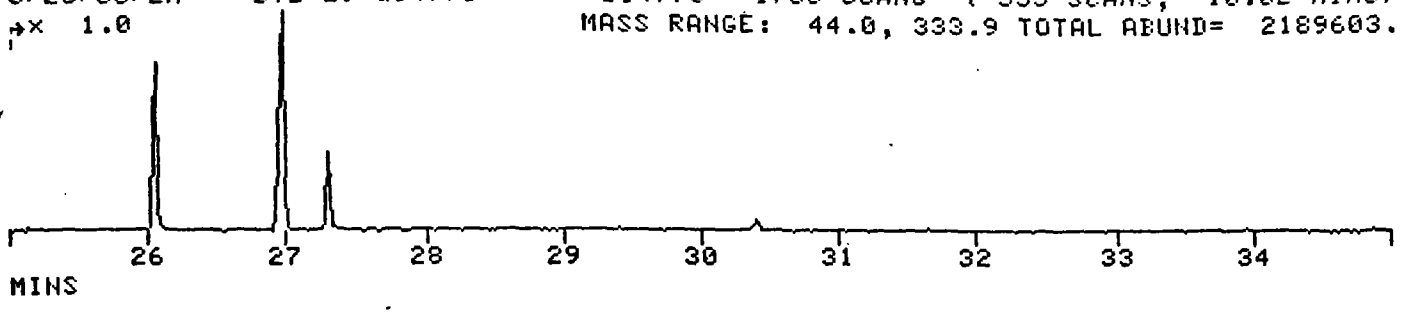


#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.

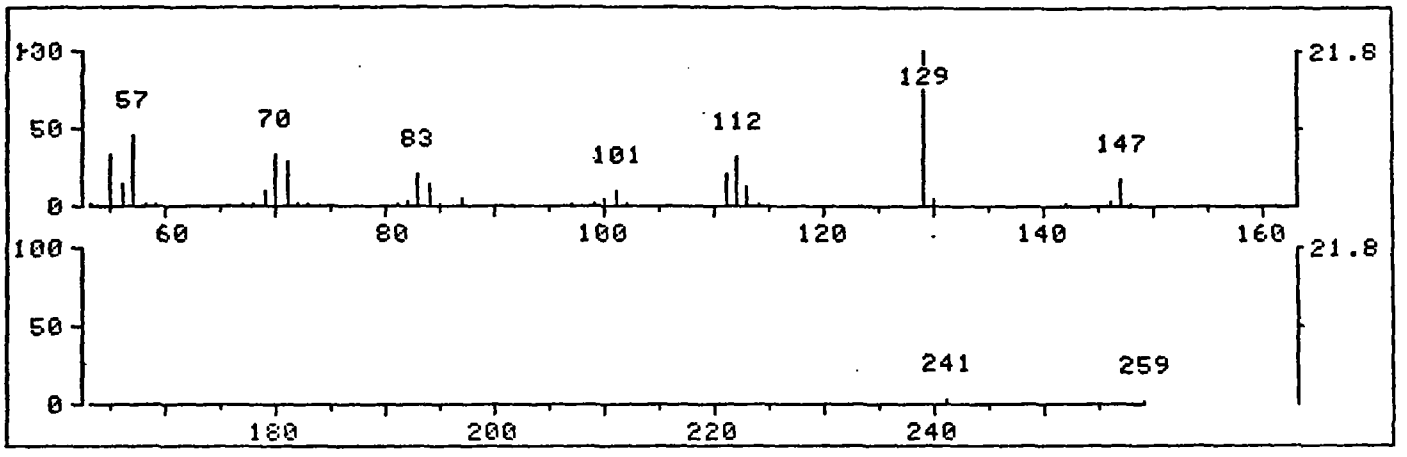


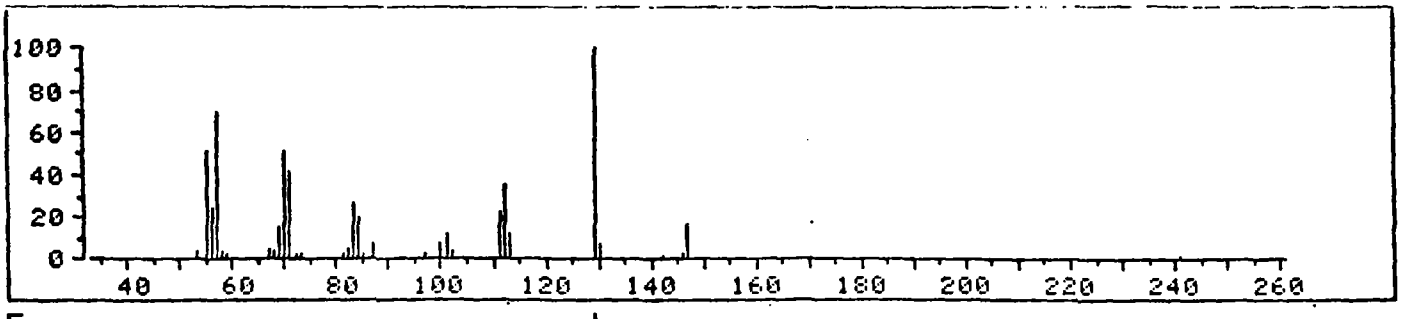
III 383

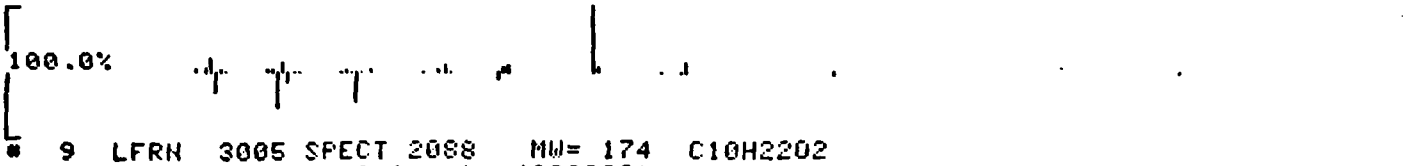
13226 AB037 CASE 3969
3/25/85/EM BTL#29 Q14770 D14770 1706 SCANS (553 SCANS, 10.02 MINS)
FRN: 14770, CRN: 10
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2189603.



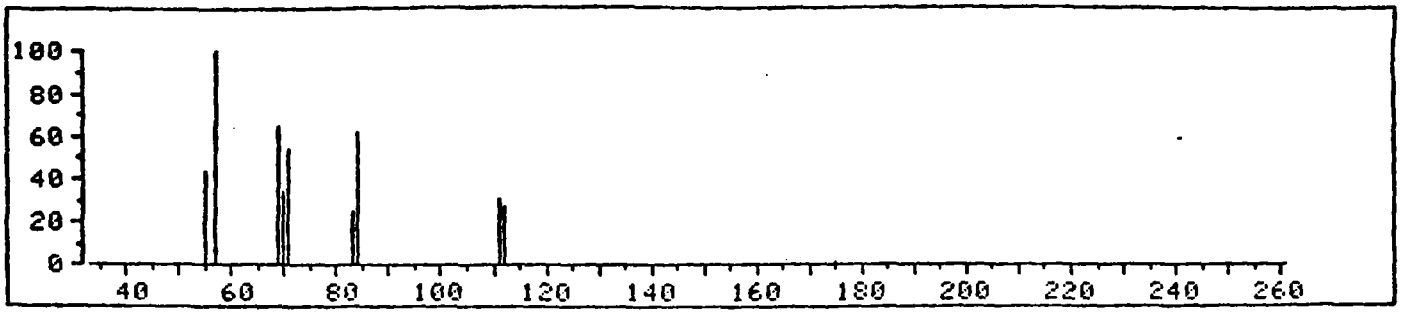
*1212 RET. TIME: 26.05 TOT ABUND= 20127. BASE PK/ABUND: 129.1/ 4382.







9 LFRN 3005 SPECT 2088 MW= 174 C10H2202
.8627 Ethanol, 2-(octyloxy)- (8CI9CI)



AREA TABLE ENTRIES: FRN 14770

Entry	Time	Mass	Area	%
1	27.0	239.7	16895.	100.0
2	26.0	TI	36285.	214.8

CALCULATE % ON ENTRY #:

Date 3/30/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

Case # 3969

Sample I.D. 43226/AB037 HP 5880
Run # 31 Bottle # 31

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted / Spiked at)	% (ug/l) ppb Recovery	total ug
No	Peaks					
31.90	Dibutylchlorendate	76.15	58.3 x	10 = 583 / 1000	58.3	
	~~DBC observed by peak at 33 min~~					

GCA GCA CORPORATION Technology Division

Case 3969

III 387

*LI,P,P5031

PROCESSED DATA FILE: P5031 ON CRN 21

Case 3969

APR 2, 1985 11:43:18

REPORT: 127 CHANNEL: 2 # PEAKS: -9 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.45	0.00	1.00000	66	BB	.022	
2	1.62	0.00	1.00000	1841	BB	.603	
3	2.80	0.00	1.00000	2247	BV	.737	
4	3.72	0.00	1.00000	2006	VB	.658	
5	4.99	0.00	1.00000	10738	BB	3.520	
6	7.44	0.00	1.00000	1147	BB	.376	
7	31.90	0.00	1.00000	76147	BV	24.963	
8	33.51	0.00	1.00000	142000	VV	46.552	
9	39.07	0.00	1.00000	68846	VF	22.570	

TOTAL AREA = 305039 TOTAL AREA % = 100.000

SAMPLE: S43226/AB03] INJECTED AT 13:43:29 ON MAR 30, 1985

ZERO METHOD: PRIME SEQ: SM03 SUBSQ/SAMP: 1 / 31 BTL: 31

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	NO

ACTUAL RUN TIME: 40.008 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: R5031 PARAM FILES= METHOD: SEQ:

DONE
READY

ORGANICS ANALYSIS REPORT

AB038

① Case Number: 3969

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:

GCA
213 Burlington Rd.
Bedford, MA 01730
Attn: Gary Hunt

Transfer Ship To:

⑤ Regional Office: I

Sampling Personnel:

John Williams
(Name)
(617) 742-5151
(Phone)

Sampling Date:
2/28/85 (Begin) 2/28/85 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	80.0Z	No sample tags
Water (VOA)	2	40ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 3/1/85
Sample Condition on Receipt (e.g., broken, r ice, Chain-of-Custody, etc.)

⑦ Shipping Information

Hand-Carried
Name of Carrier

Date Shipped:

Airbill Number:

⑧ Sample Description

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches Inorganic Report # MAA 015

LAB COPY III 389

Laboratory Name: GCA | Case No 3969

Lab Sample ID No. 43242 | QC Report No 3969

Sample Matrix: Water | Contract No 68-01-6767.

Data Release Authorized By: | Date Sample Received 3/1/85

Volatile Compounds

Concentration: ~~(Low)~~ Low (circled) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/5/85

Conc/Dil Factor: 1 pH NA

Percent Moisture: NA

Percent Moisture (Decanted): NA

EJ mm 5/7/85 R=Reject

CAS Number		ug/l or ug/Kg (Circle One) — ug/l circled
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	[illegible] R
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	5 U
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One) — ug/l circled
79-34-5	1, 1, 2, 2-Tetrachloroethane	[illegible]
78-87-5	1, 2-Dichloropropane	[illegible]
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	*

[illegible]

* See narrative

Value — [illegible]

U — Indicates compound was [illegible] Compound was analyzed [illegible] but not detected. The number is the minimum [illegible] the sample.

J — Indicates an estimated value. [illegible]

C — This flag [illegible] pesticide parameters where the [illegible] confirmed by GC/MS [illegible]

B — This flag [illegible] found in the blank [illegible] and warns the data user to take [illegible]

Other — [illegible]

III-390

Environmental Protection Agency, CLP Sample Management Office,
P. O Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 038

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0 l → 1.0 ml

EJ mm 5/2/86 R=Reject

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis-2-Chloroethyl Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl) ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4 Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4 Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3 Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6 Trichlorophenol	10u
95-95-4	2, 4, 5 Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3 Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	19 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB038

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 3/30/85

Conc/Dil Factor: 1

ET mm 5/15/85

NA = Not Analyzed

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05U
319-85-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4, 4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4, 4'-DDD	0.10U
7421-93-4	Endrin Aldehyde	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4, 4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor-1016	0.50U
11104-28-2	Aroclor-1221	0.50U
11141-16-5	Aroclor-1232	0.50U
53469-21-9	Aroclor-1242	0.50U
12672-29-6	Aroclor-1248	0.50U
11097-69-1	Aroclor-1254	1.0U
11096-82-5	Aroclor-1260	1.0

J M Hall 4/3/85

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

III 392

Environmental Protection Agency. CLP Sample Management Office.
P O Box 818. Alexandria, Virginia 22313 703/557-2400

Sample Number
A5038

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	No Compounds Found	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 038

Organics Analysis Data Sheet
(Page 4)

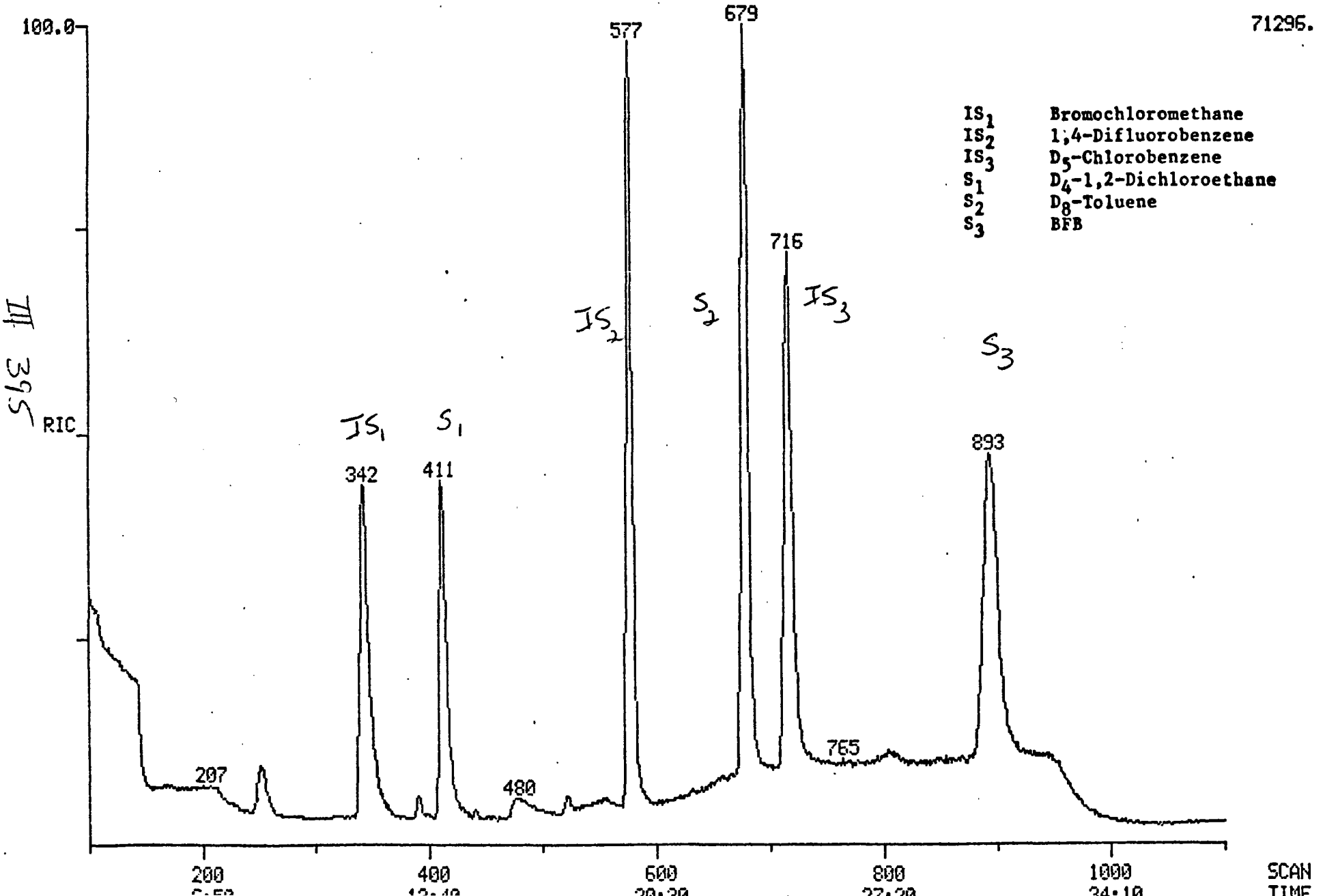
Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Tentative	BNA	26.0	162 5
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

RIC
03/05/25 21:58:00
SAMPLE: AB 038 Case 3989

DATA: V2752

SCANS 100 TO 1100



QUANTITATION REPORT FILE: M2

AB-038 Cax 3989

DATA: V2752.TI
03/05/85 21:58:00
SAMPLE:
SUBMITTED BY: ANALYST:

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	BROMOCHLOROMETHANE(I.S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS 1,2-DICHLOROETHENE
12	CHLOROFORM
13	1,2-DICHLOROETHANE
14	D4-1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	1,4-DIFLUROBENZENE(I.S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS 1,3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	BENZENE
27	CIS-1,3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I.S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1,1,2,2,TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	342	11:41	1	1.000	A BB	28322.	50.000 UG/L	11.72
2	NOT FOUND								
3	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	65	411	14:03	1	1.202	A BB	88117.	85.813 %REC	20.11
15	NOT FOUND								
16	114	577	19:43	16	1.000	A BB	127872.	50.000 UG/L	11.72
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	98	679	23:12	16	1.177	A BB	140084.	90.101 %REC	21.12
30	NOT FOUND								
31	117	716	24:28	31	1.000	A BB	85948.	50.000 UG/L	11.72
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	83	716	24:28	31	1.000	A BB	5132.	~~-6.206 UG/L~~ CM	~~1.45~~ ND
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	95	893	30:31	31	1.247	A BB	72542.	94.495 %REC	22.15
40	NOT FOUND								
41	NOT FOUND								

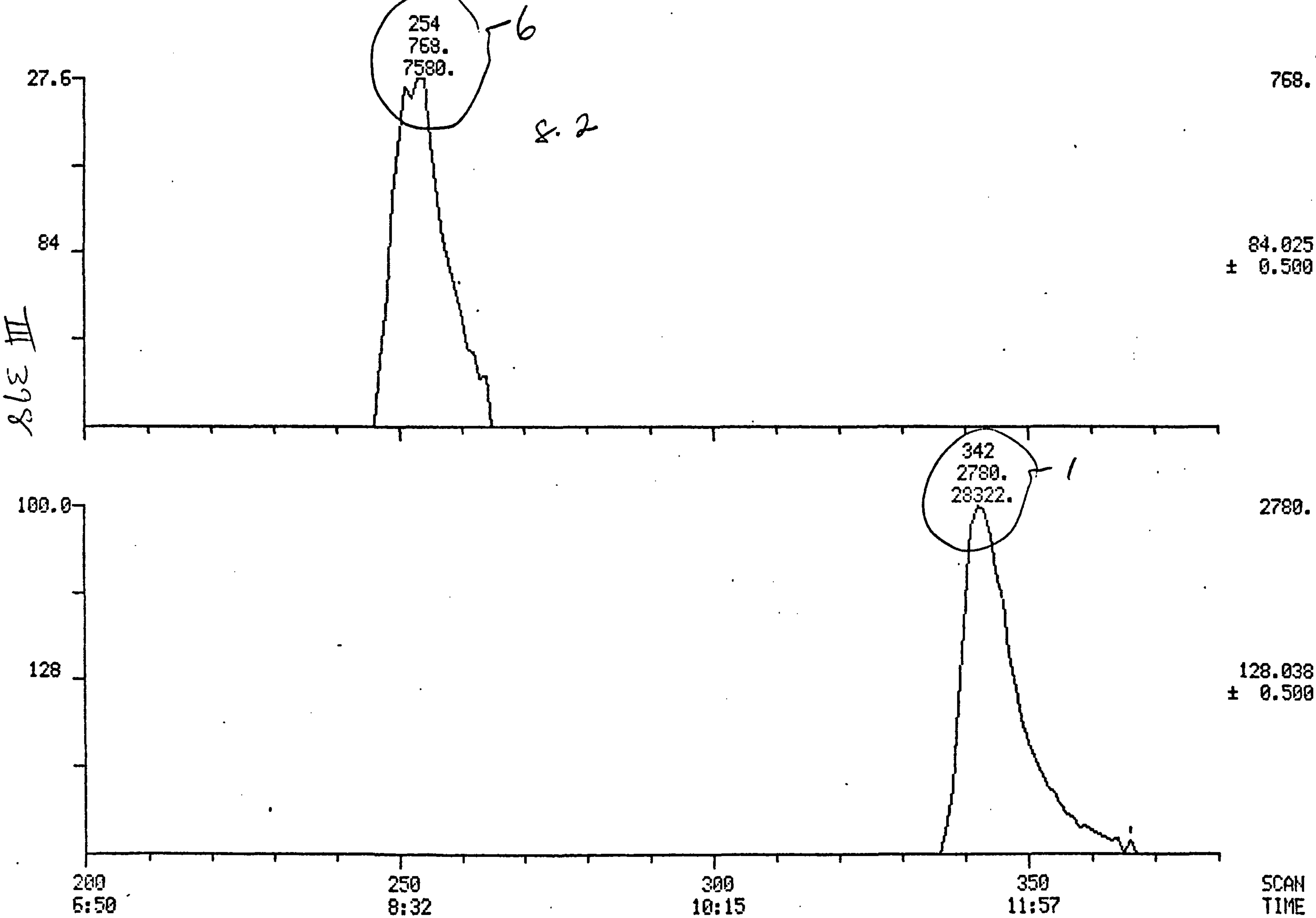
AB-038 Case 3969 3/5/85

III 397

MASS CHROMATOGRAMS
03/05/85 21:58:00
SAMPLE: AB 038 Case 3969

DATA: V2752

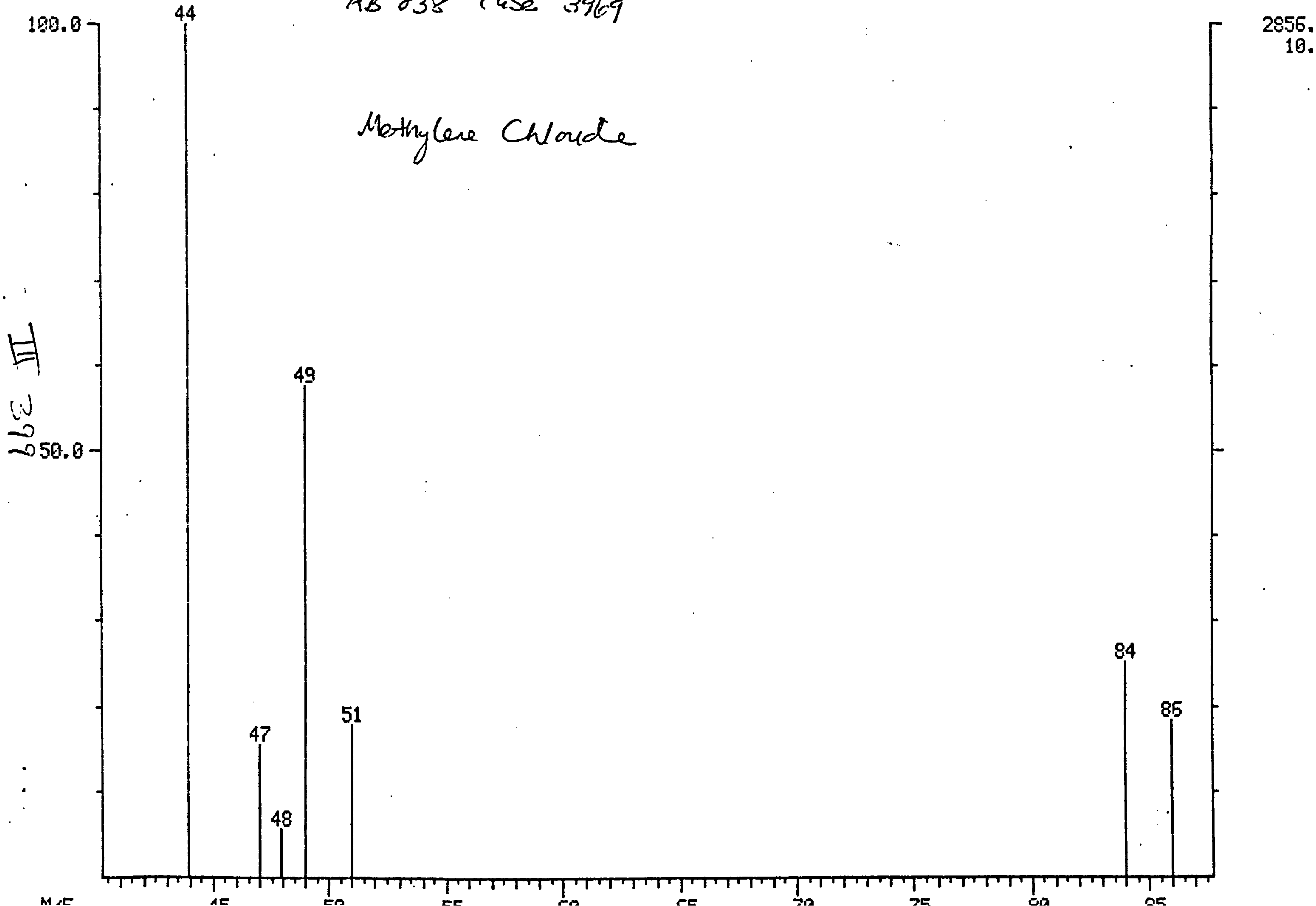
SCANS 200 TO 380



MASS SPECTRUM
03/05/85 21:58:00 + 8:37
SAMPLE: AB 038 case 3969

DATA: V2752 #252

BASE M/E: 44
RIC: 6880.

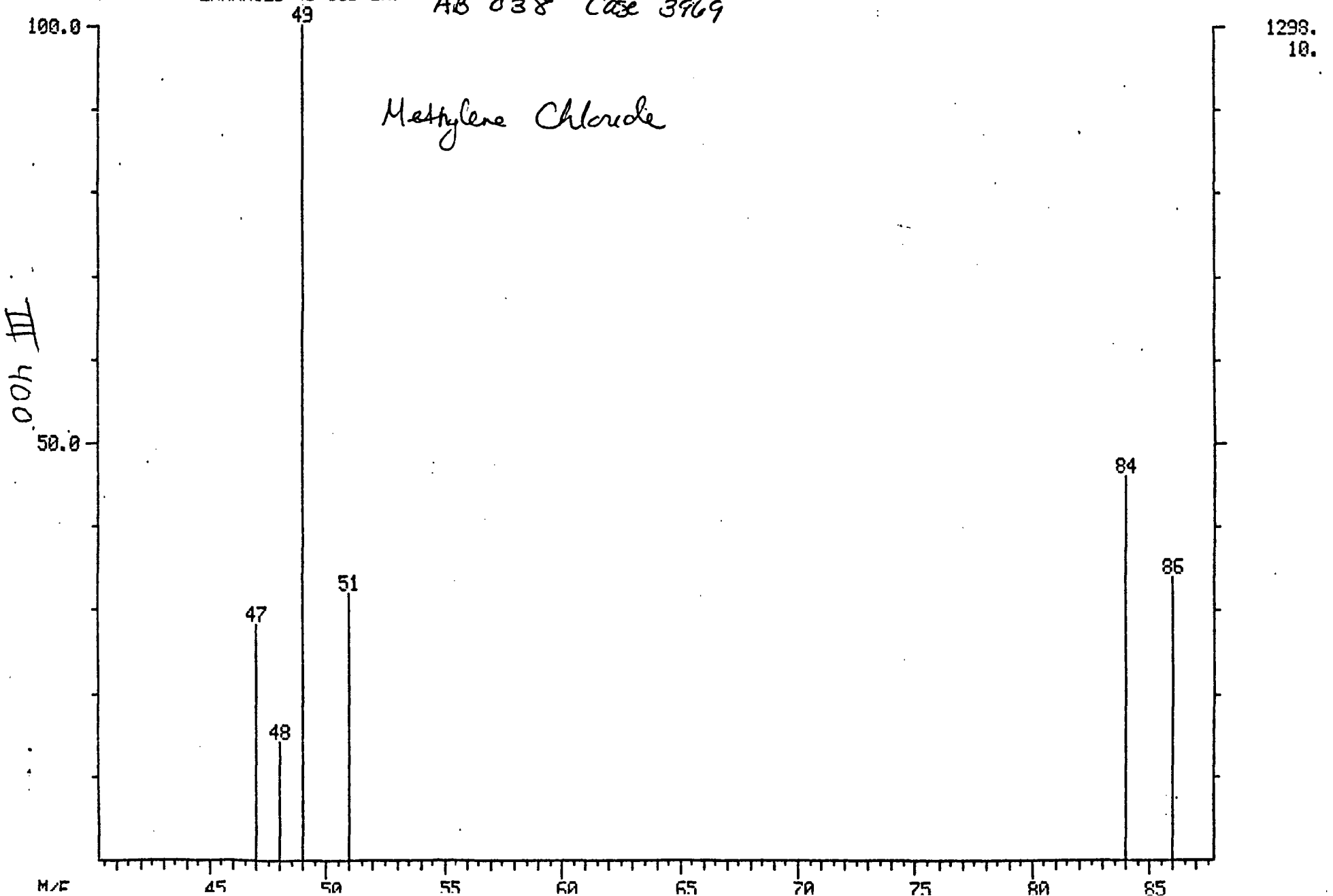


MASS SPECTRUM
03/05/85 21:58:00 + 8:37
SAMPLE:
ENHANCED (S 15B 2N)

DATA: V2752 #252

BASE M/E: 49
RIC: 3300.

AB 038 Case 3969



Methylene Chloride

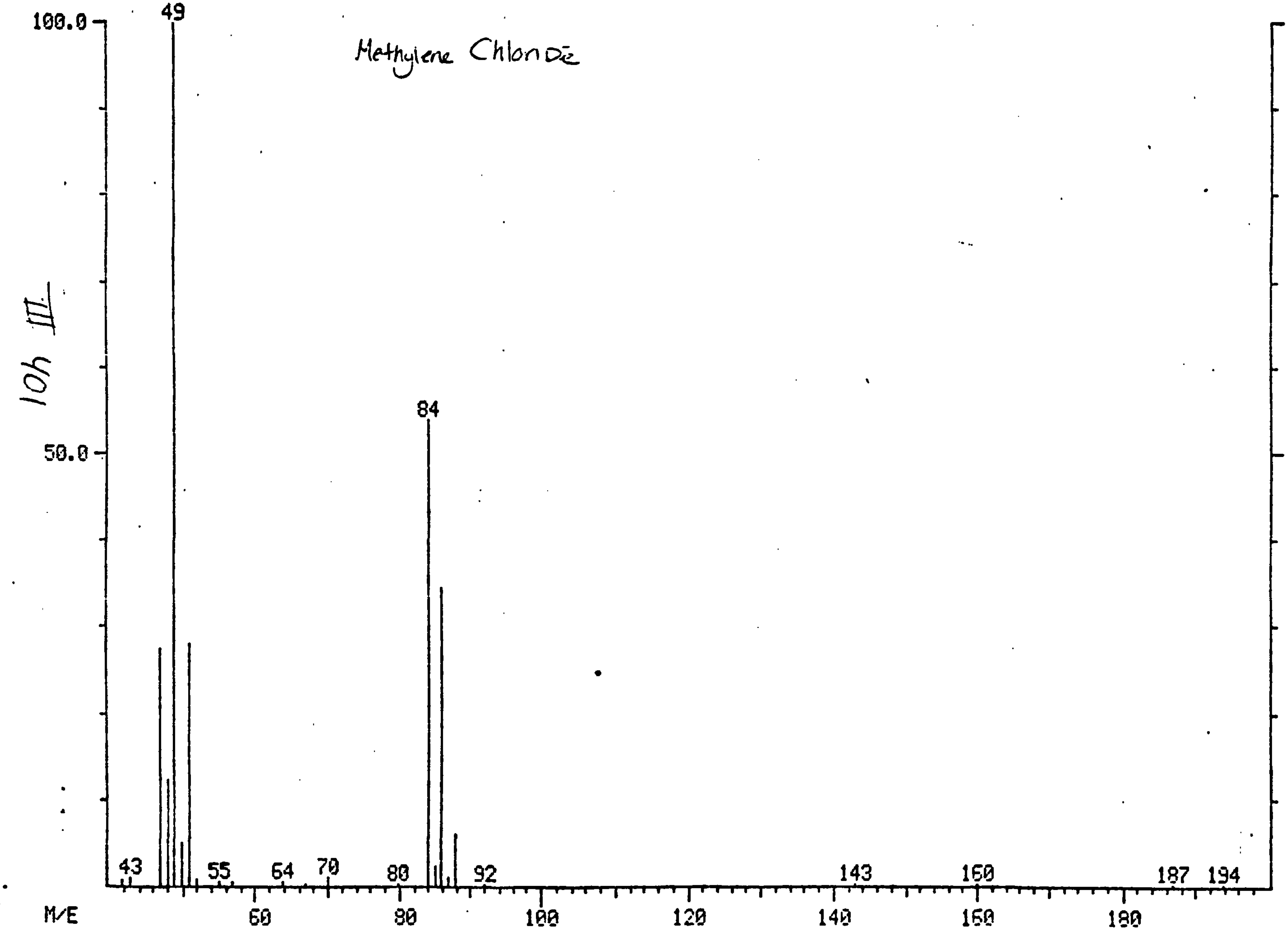
00h III

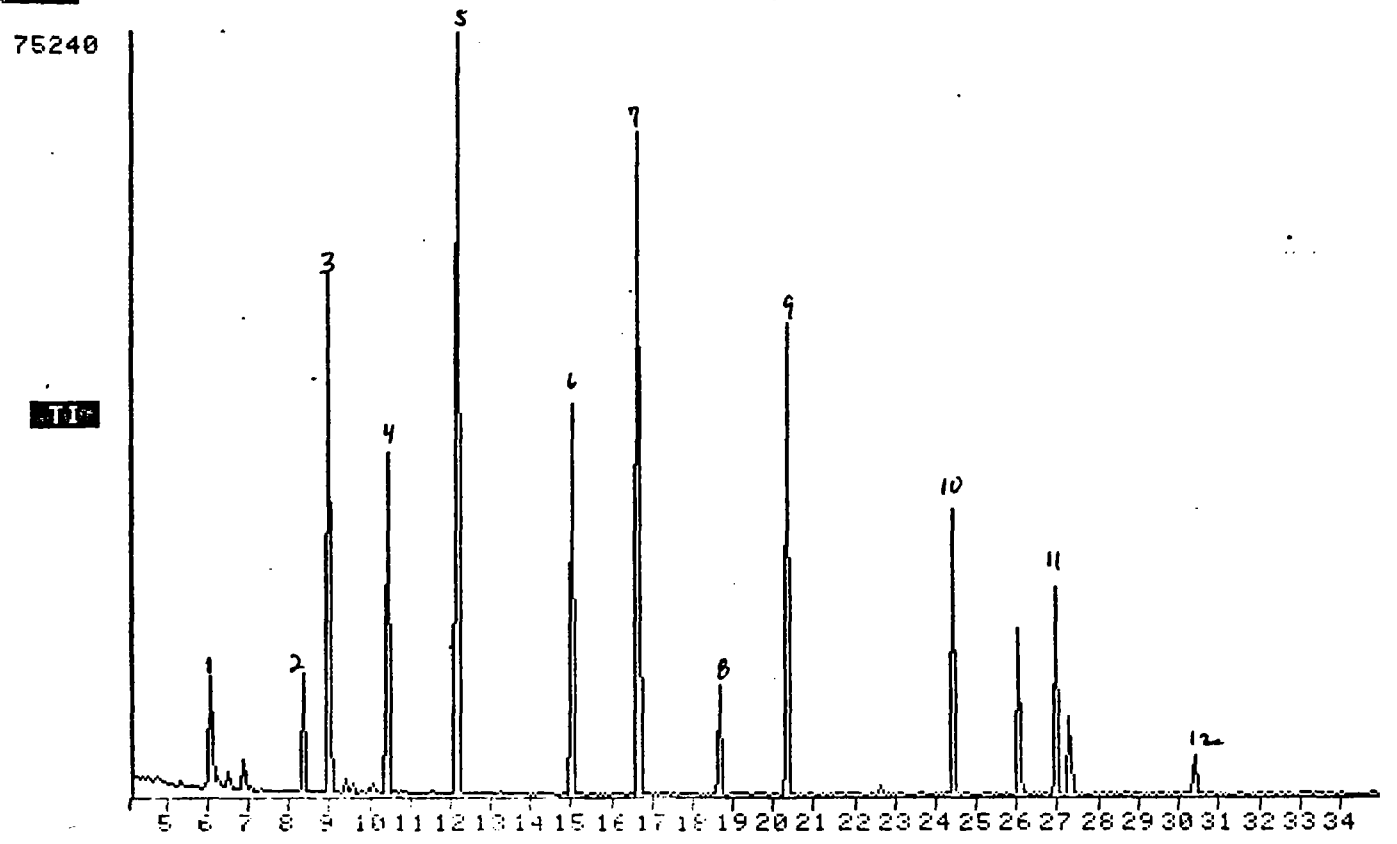
MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE: Case ~~3~~ 3969 100 ppb
ENHANCED (S 15B 2N)

DATA: V2708 #248

BASE M/E: 49
RIC: 36224.

Methylene Chloride





1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

FILE NUMBER 14771

43227 AB038 CASE 3969

3/25/85/EM BTL#30 Q14771 D14771

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000				D4-1,4-DICHLOROBENZENE(20)
9.9	74.0	.046	.0000				N-NITROSODIMETHYLAMINE
8.4	93.0	.913	.0000				ANILINE
8.5	93.0	.709	.0000				BIS(2-CHLOROETHYL)ETHER
8.9	146.0	.591	.0000				1,3-DICHLOROBENZENE
9.0	146.0	.594	.0000				1,4-DICHLOROBENZENE
9.5	108.0	.395	.0000				BENZYL ALCOHOL
9.5	146.0	.594	.0000				1,2-DICHLOROBENZENE
9.9	45.0	.527	.0000				BIS(2-CHLOROISOPROPYL)ETHER
10.2	70.0	.490	.0000				N-NITROSODINPROPYLAMINE
10.2	117.0	.291	.0000				HEXACHLOROETHANE
10.5	77.0	.716	.0000				NITROBENZENE
12.2	68.0	1.000	80.0000				D8-NAPHTHALENE(20)
11.1	138.0	1.519	.0000				ISOPHORONE
11.8	95.0	1.813	.0000				BIS(2-CHLOROETHOXY)METHANE
12.1	180.0	2.642	.0000				1,2,4-TRICHLOROBENZENE
12.2	129.0	1.325	.0000				NAPHTHALENE
12.5	127.0	4.577	.0000				4-CHLOROANILINE
12.7	225.0	1.190	.0000				HEXACHLOROBUTADIENE
14.0	115.0	2.578	.0000				2-METHYLNAPHTHALENE
16.7	164.0	1.000	80.0000				D10-ACENAPHTHENE
14.6	237.0	.205	.0000				HEXACHLOROCYCLOPENTADIENE
15.2	164.0	.281	.0000				2-CHLORONAPTHALENE
15.6	138.0	.397	.0000				2-NITROANILINE
16.2	164.0	.083	.0000				DIMETHYL PHTHALATE
16.3	151.0	.272	.0000				ACENAPHTHYLENE
16.4	165.0	.228	.0000				2,6-DINITROTOLUENE
16.7	138.0	.293	.0000				3-NITROANILINE
16.8	152.0	.437	.0000				ACENAPHTHENE
17.2	139.0	.490	.0000				DIBENZOFURAN
17.3	165.0	.320	.0000				2,4-DINITROTOLUENE
18.0	177.0	.171	.0000				DIETHYL PHTHALATE
18.0	165.0	.820	.0000				FLUORENE
18.1	204.0	.358	.0000				4-CHLOROPHENYLPHENYL ETHER
18.2	138.0	.292	.0000				4-NITROANILINE
17.2	169.0	.144	.0000				DIPHENYLAMINE

43227 AB038 CASE 3969
3/25/85/EM BTL#30 Q14771 D14771

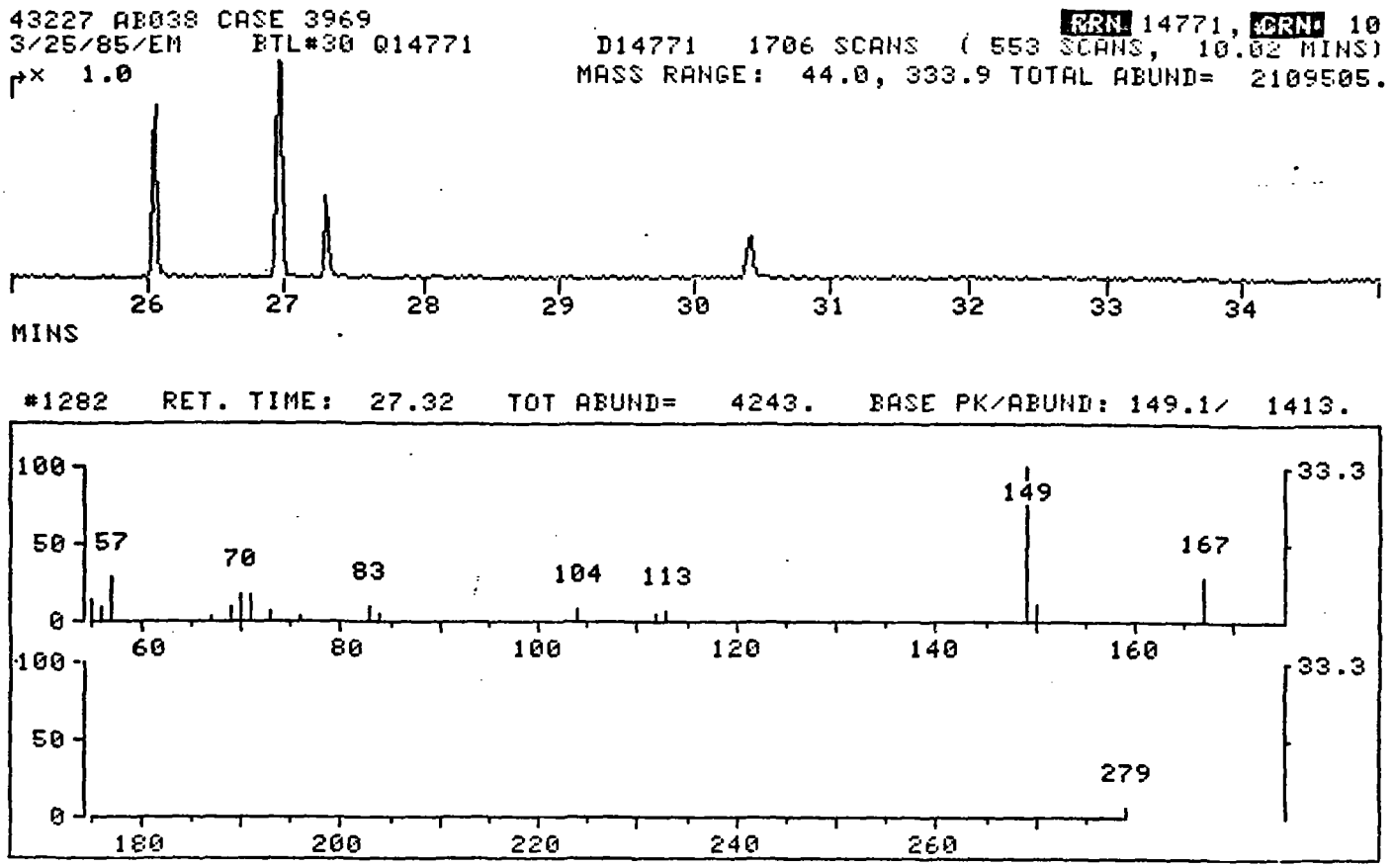
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.4	188.0	1.000	80.0000				D10-PHENANTHRENE(20)
19.3	248.0	.112	.0000				4-BROMOPHENYLPHENYL ETHER
19.6	284.0	.112	.0000				HEXACHLOROBENZENE
20.4	179.0	.060	.0000				PHENANTHRENE/ANTHRACENE
22.1	150.0	.100	.0000				DIBUTYL PHTHALATE
23.4	202.0	.665	.0000				FLUORANTHENE
27.0	240.0	1.000	80.0000				D12-CHRYSENE
23.9	202.0	2.264	.0000				PYRENE
25.8	149.0	1.136	.0000				BUTYL BENZYL PHTHALATE
26.9	228.0	.427	.0000				BENZO(A)ANTHRACENE/CHRYSENE
27.3	149.0	1.128	19.2809	✓			BIS(2-ETHYLHEXYL)PHTHALATE
30.4	264.0	1.000	80.0000				D12-PERYLENE
28.7	149.0	5.974	.0000				DIOCTYL PHTHALATE
29.5	252.0	1.307	.0000				BENZO(B)/(K)FLUORANTHENE
30.2	252.0	.744	.0000				BENZO(A)PYRENE
33.7	276.0	.485	.0000				INDENO(123-CD)PYRENE
33.8	278.0	.346	.0000				DIBENZO(AH)ANTHRACENE
34.6	276.0	.360	.0000				BENZO(GHI)PERYLENE
27.0	240.0	1.000	80.0000				D12-CHRYSENE
23.8	184.0	.712	.0000				BENZIDINE
27.0	252.0	.146	.0000				DICHLOROBENZIDINE

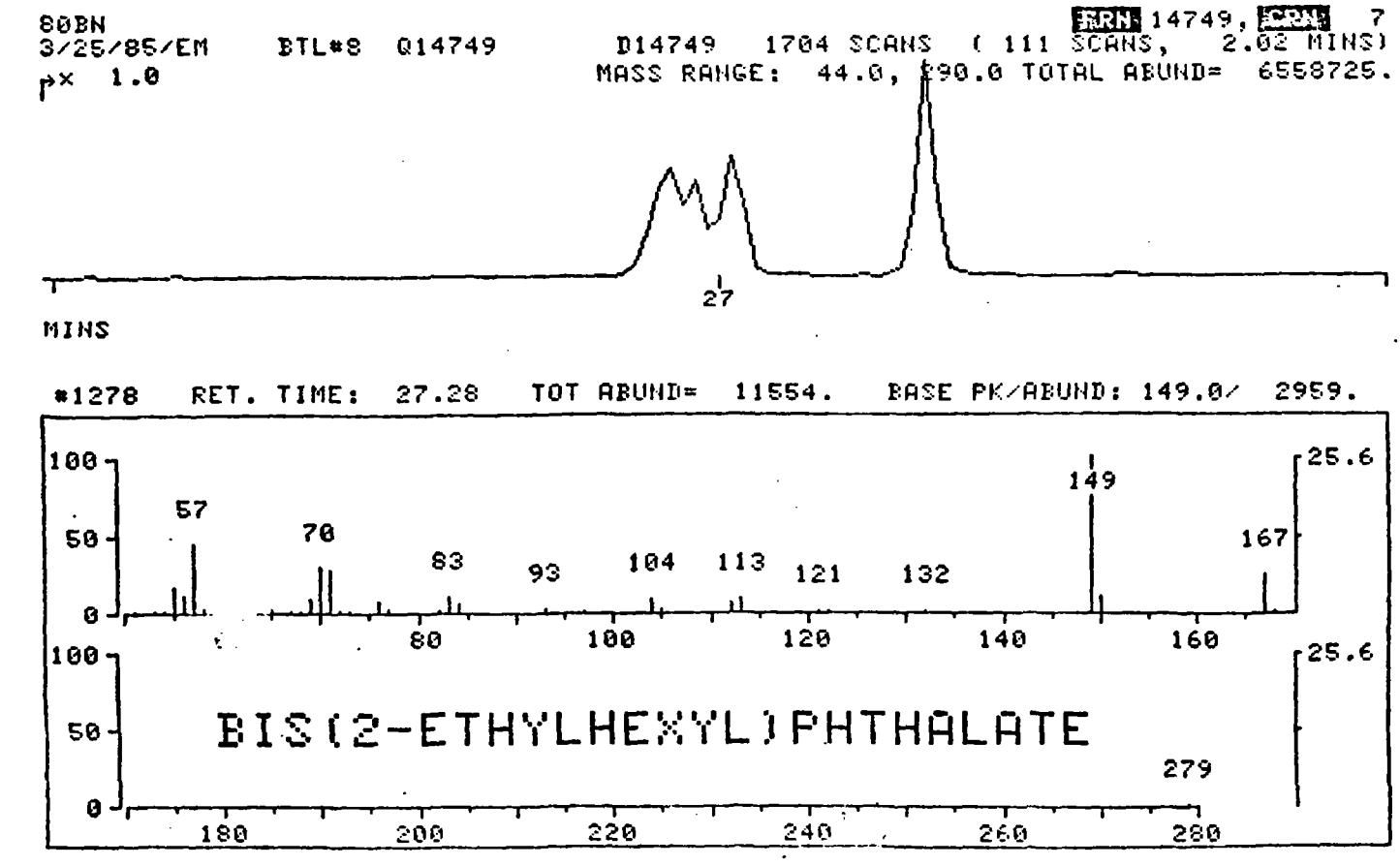
FILE NUMBER 14771

43227 AB038 CASE 3969

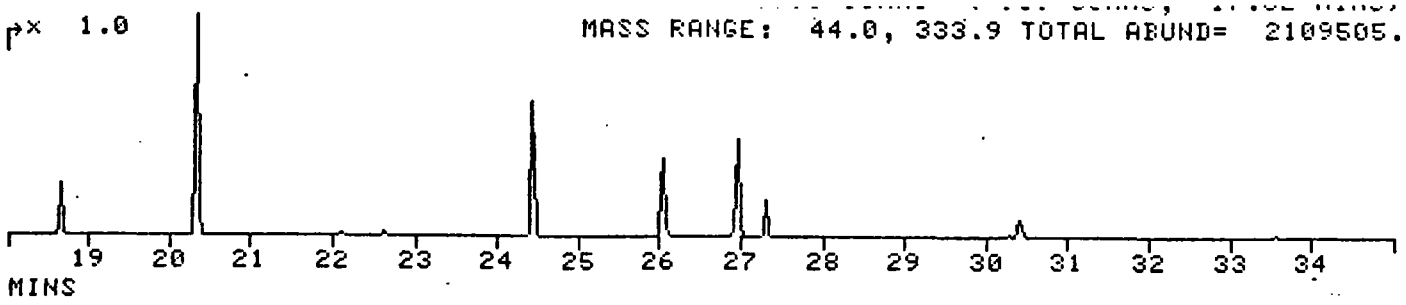
3/25/85/EM BTL#30 Q14771 D14771

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	~~.7586~~ EM	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.2	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.4	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			

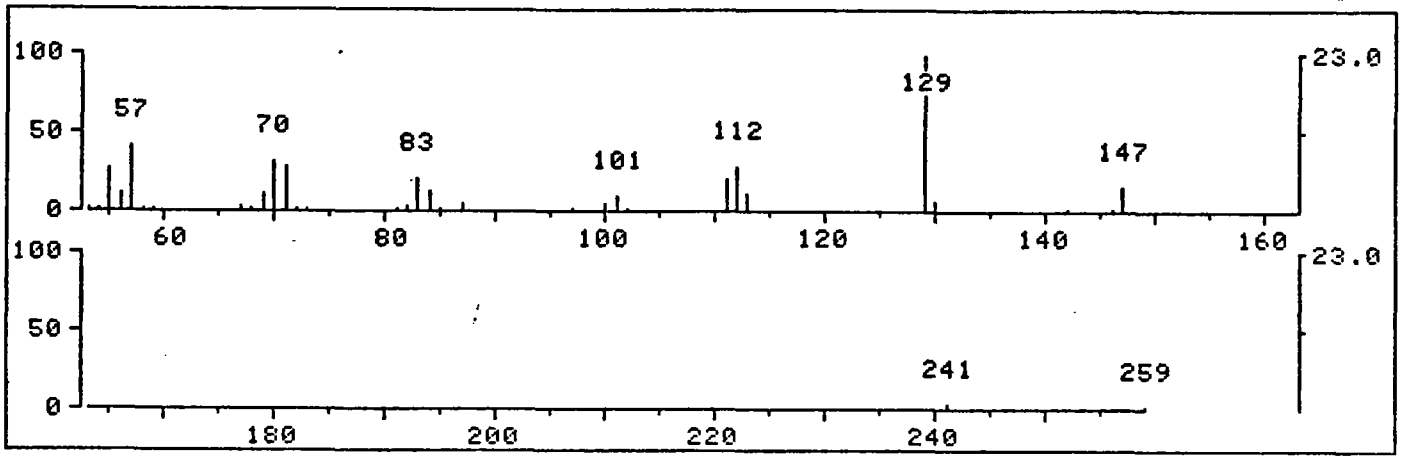

43227 AB038 CASE 3969
3/25/85/EM BTL#30 Q14771
RRN 14771, SCRN 10
D14771 1706 SCANS (553 SCANS, 10.02 MINS)
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2109505.
x 1.0
26 27 28 29 30 31 32 33 34
MINS
#1282 RET. TIME: 27.32 TOT ABUND= 4243. BASE PK/ABUND: 149.1/ 1413.
57 70 83 104 113 149 167 33.3
279 33.3

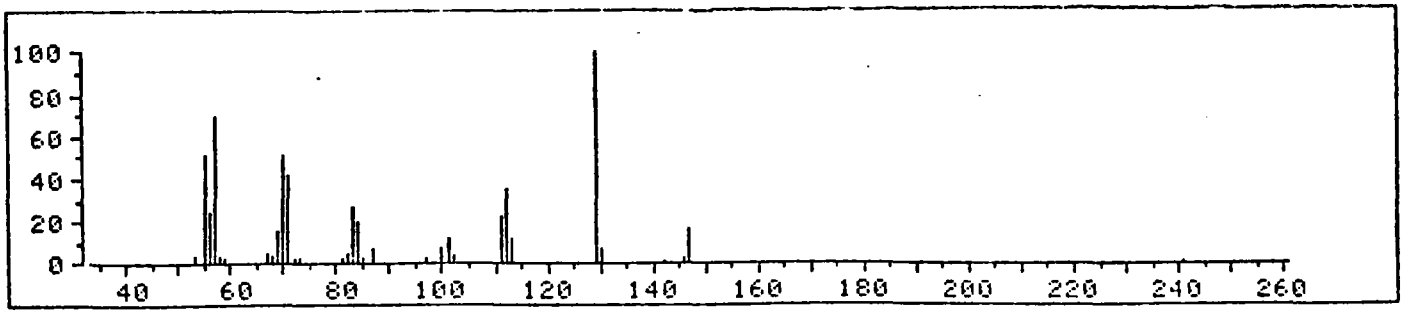

80BN
3/25/85/EM BTL#8 Q14749
RRN 14749, SCRN 7
D14749 1704 SCANS (111 SCANS, 2.02 MINS)
MASS RANGE: 44.0, 390.0 TOTAL ABUND= 6558725.
x 1.0
27
MINS
#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.
57 70 83 93 104 113 121 132 149 167 25.6
BIS(2-ETHYLHEXYL)PHTHALATE
279 25.6

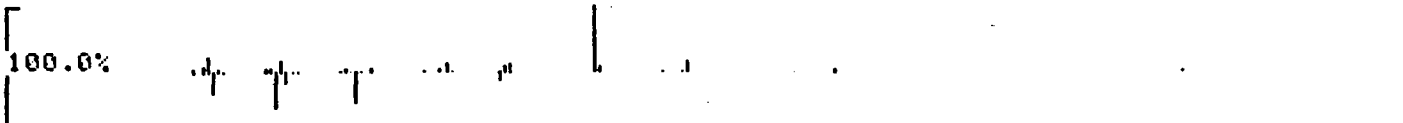
III 406



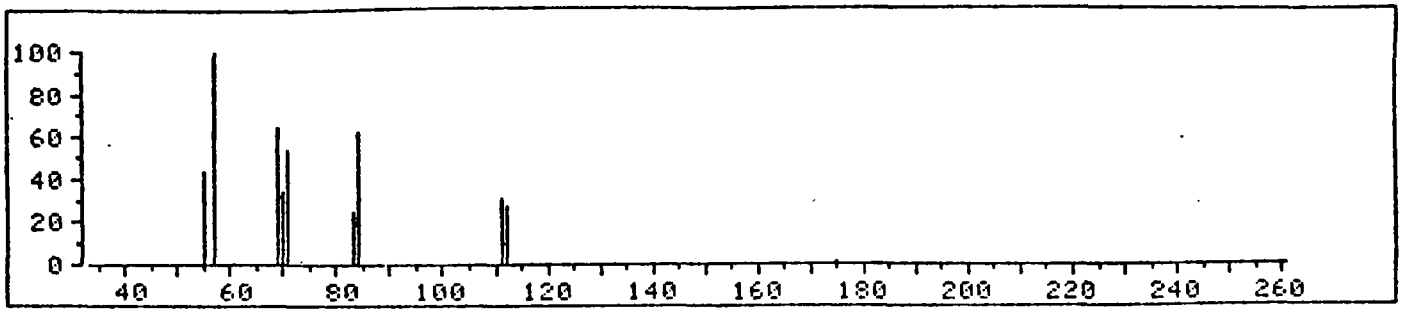
#1212 RET. TIME: 26.05 TOT ABUND= 16879. BASE PK/ABUND: 129.1/ 3880.







9 LFRN 3005 SPECT 2088 MW= 174 C10H2202
.8627 Ethanol, 2-(octyloxy)- (8CI9CI)



III 407

Entry	Time	Mass	Area	%
1	27.0	239.7	15195.	100.0
2	26.0	TI	30701.	202.0

III 408

Date 3/30/85 Analyst BL Contract 3-705-050

Pesticide Analysis - Qualitative/Quantitative

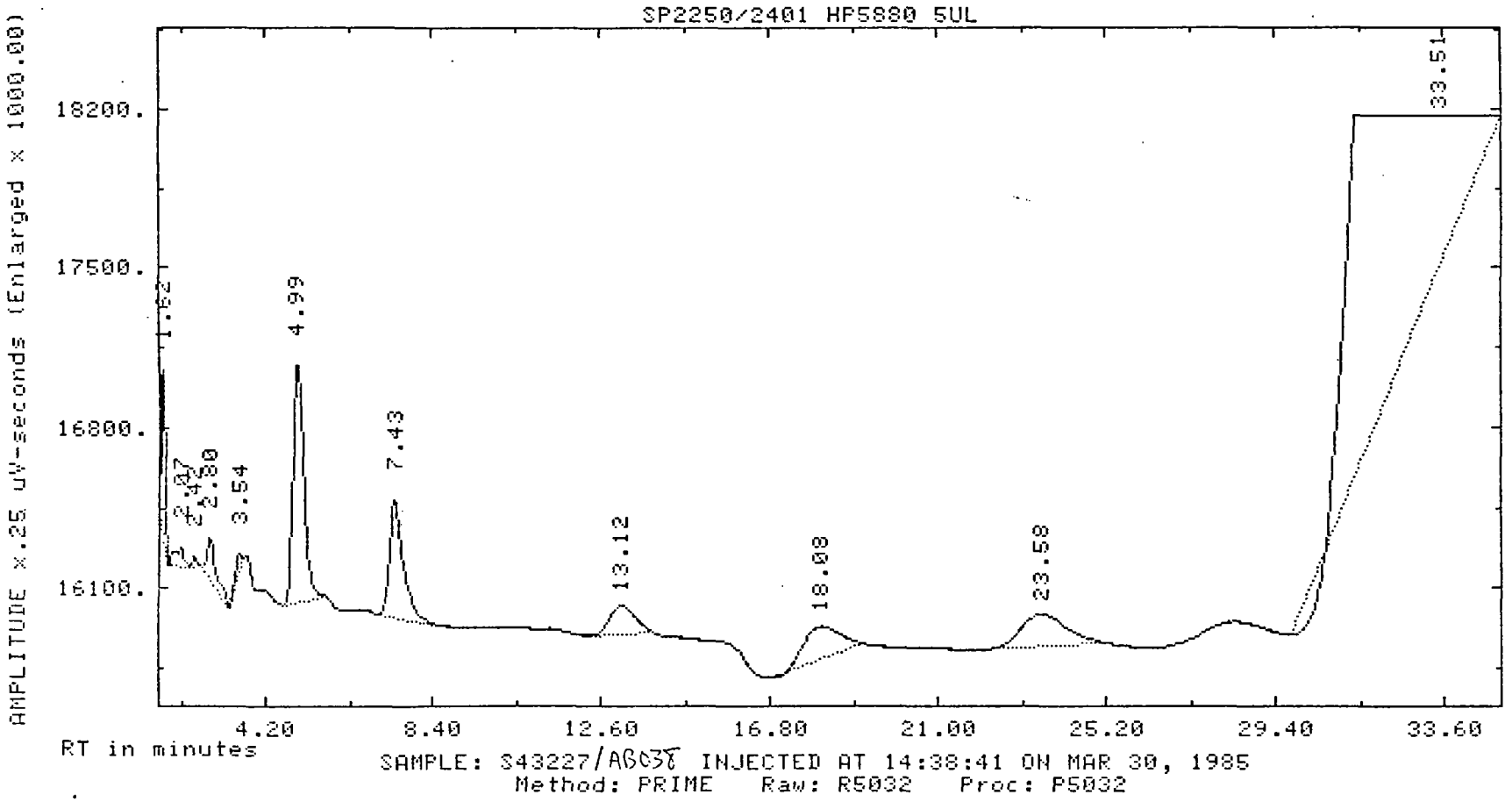
Case # 3969

Sample I.D. 43227/AB038 HP 5880
Run # 32 Bottle # 32

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
3.54	δ-BHC	0.35	< 5.0	x 10 ÷ 1000 =	< 0.05	
	DBC	obscured by peak at 33 min.				

GCA CORPORATION
Technology Division

Case 3969


SP2250/2401 HP5880 5UL
AMPLITUDE x.25 uV-seconds (Enlarged x 1000.00)
18200.
17500.
16800.
16100.
1.62
2.47
2.80
3.54
4.99
7.43
13.12
18.08
23.58
33.51
4.20
8.40
12.60
16.80
21.00
25.20
29.40
33.60
RT in minutes
SAMPLE: S43227/A6038 INJECTED AT 14:38:41 ON MAR 30, 1985
Method: PRIME Raw: R5032 Proc: P5032

Case 3969

```
*LI,P,P5032

PROCESSED DATA FILE: P5032  ON CRN 21

APR  2, 1985   11:43:49

REPORT:   128     CHANNEL:  2 # PEAKS:   -14  SP2250/2401 HP5880 5UL

PEAK    RT     ITM     FACTOR      AREA       AREA %       NAME

   1   1.24    0.00   1.00000       609 BV     .041
   2   1.62    0.00   1.00000      2467 VB     .166
   3   2.07    0.00   1.00000       666 BB     .045
   4   2.42    0.00   1.00000       154 BB     .010
   5   2.80    0.00   1.00000      1377 BV     .093
   6   3.54    0.00   1.00000       354 VB     .024
   7   4.99    0.00   1.00000      9522 BB     .642
   8   7.43    0.00   1.00000      6218 BB     .419
   9  13.12    0.00   1.00000      2759 BB     .186
  10  18.08    0.00   1.00000      4587 BB     .309
  11  23.58    0.00   1.00000      5439 BB     .367
  12  33.51    0.00   1.00000   1267126 BV   85.477
  13  37.43    0.00   1.00000    160070 VV   10.798
  14  38.97    0.00   1.00000     21065 VF    1.421

TOTAL AREA =      1482417    TOTAL AREA % =     100.000

SAMPLE: S43227/ABO3T INJECTED AT  14:38:41 ON MAR 30, 1985

ZERO METHOD: PRIME    SEQ: SM03    SUBSQ/SAMP:  1 / 32   BTL: 32

SL-WDTH    MV/MIN    DELAY    MIN-AR    BUNCH     REPORT
   .500      .300     1.00        50    AUTO      MEDIUM

SUP-UNK     DVT     ID-LVL   REF-RTW    %RTW   %DIL-F   ISO
  NO        0.00         0       .30     5.0   100.00   NO

ACTUAL RUN TIME:  40.008 MINUTES

RF-UNK:   1.00000   STD-AMT:     1.0000    SAMP-AMT:     1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: R5032   PARAM FILES= METHOD:            SEQ:

DONE
READY
```

INORGANICS TRAFFIC REPORT

AO 059

① Case Number: 3969 Sample Site Name/Code:	② SAMPLE CONCENTRATION (Check One) ✓ Low Concentration ___ Medium Concentration ③ SAMPLE MATRIX (Check One) ✓ Water ___ Soil/Sediment	④ Ship To: GCA 213 Burlington Rd Bedford: Ma 01730 Attn: Gary Hunt Transfer Ship To:

⑤ Regional Office: I

Sampling Personnel: John Williams (Name)

(617) 742-5151 (Phone)

Sampling Date: 2/28/85 (Begin) 2/28/85 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: ... Rec'd by: [illegible] Date Rec'd: 3/1/85 Sample Condition on Receipt (e.g., broken, ice, Chain-of-Custody, etc.)
Water (Extractable)	2	80. oz	No sample tag
Water (VOA)	2	40 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑦ Shipping Information

Name of Carrier

Date Shipped:

Airbill Number:

⑧ Sample Description

___ Surface Water ___ Mixed Media

✓ Ground Water ___ Solids

___ Leachate ___ Other (specify) ______

⑨ Sample Location

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Inorganic MAA 016

LAB FILE COPY III 412

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: GCA
Lab Sample ID No: 43243
Sample Matrix: water
Data Release Authorized By:

Case No: 3969
QC Report No: 3969
Contract No: 68-01-6767
Date Sample Received: 3/1/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3/6/85
Date Analyzed: 3/6/85
Conc/Dil Factor: 1 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

ETmm 5/2/8_ R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	7.5 R
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	*

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. [illegible]

*See narrative

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) [illegible]

J — Indicates an estimated value. [illegible]

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. [illegible]

B — This flag is used when the analyte is found in the blank as well as a sample. [illegible]

Other — [illegible]

II 413

Environmental Protection Agency, CLP Sample Management Office,
P O Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 039

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3/5/85

Date Analyzed: 3/25/85

Conc/Dil Factor: 1.0l → 1.0ml

ETmm 5/2/85 R=Reject

CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-[illegible]ylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		(ug/l) or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	510 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Form I III 414 4/84

Environmental Protection Agency, CLP Sample Management Office,
P.O. Box 818, Alexandria, Virginia 22313 703 557-2490

Sample Number
AB039

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared: 3/1/85

Date Analyzed: 3/30/85

Conc/Dil Factor: 1

EInit 5/15/85

CAS Number		ug/L or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05U
319-85-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4,4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4,4'-DDD	0.10U
7421-93-4	Endrin Aldehyde	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4,4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor-1016	0.50U
11104-28-2	Aroclor-1221	0.50U
11141-16-5	Aroclor-1232	0.50U
53469-21-9	Aroclor-1242	0.50U
12672-29-6	Aroclor-1248	0.50U
11097-69-1	Aroclor-1254	1.0U
11096-82-5	Aroclor-1260	1.0U

NA = Not Analyzed

JH Hall 4/3/85

V_t = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 10,000 ul V_i 5.0 ul

III 415

AB039

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		p- xylene	VOA	536	30
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

III 416.

...Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB 039

Organics Analysis Data Sheet
(Page 4)

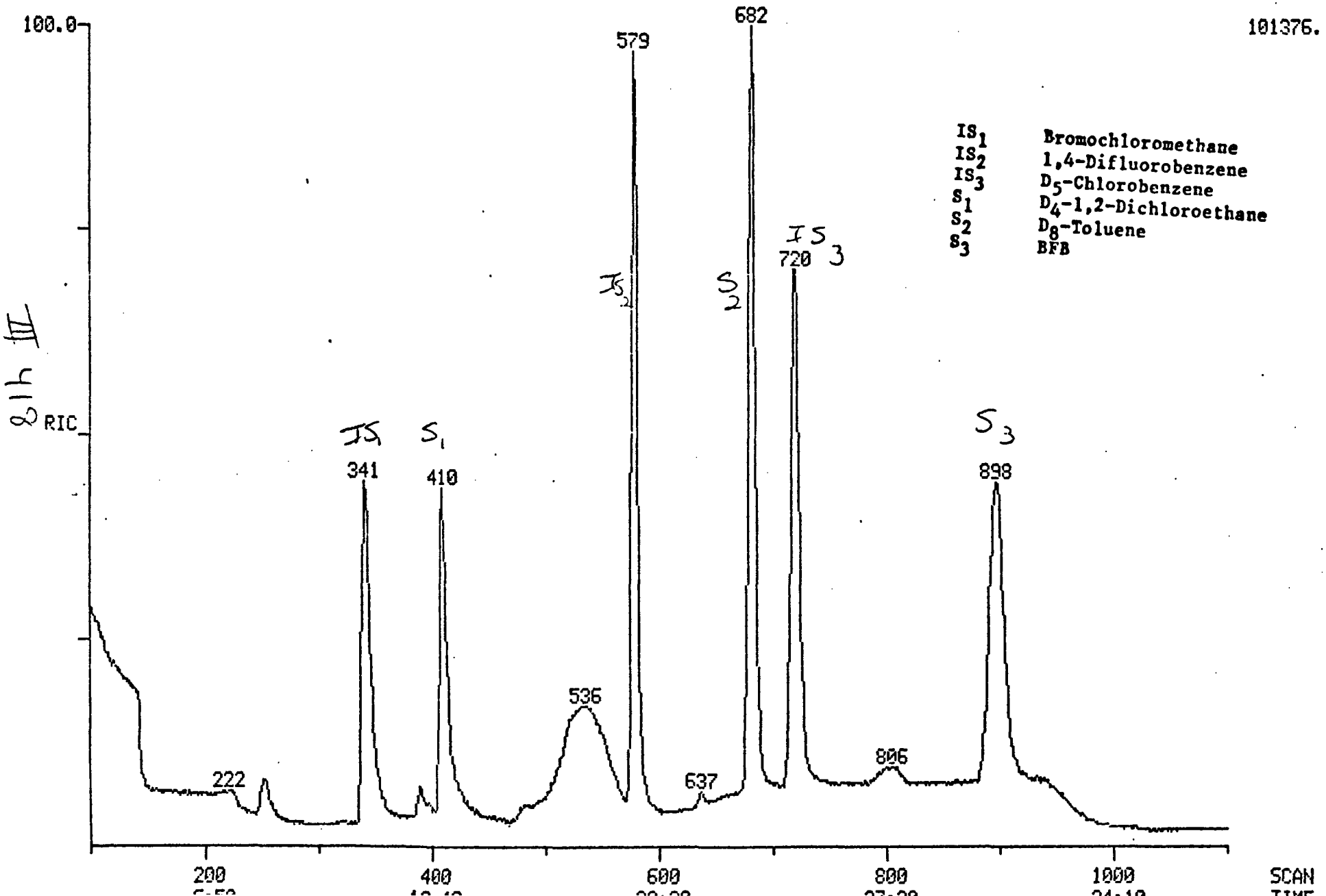
Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	No Compounds Found	BN/A		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

RIC
03/06/85 12:28:00
SAMPLE: 43243 CASE 3969 AB-039

DATA: V2756

SCANS 100 TO 1100



IS_1 Bromochloromethane
IS_2 1,4-Difluorobenzene
IS_3 D_5-Chlorobenzene
S_1 D_4-1,2-Dichloroethane
S_2 D_8-Toluene
S_3 BFB

FINNIGAN ORGANICS IN WATER ANALYZER
QUANTITATION REPORT FILE: V2756

DATA: V2756.TI
03/06/85 12:28:00
SAMPLE: 43243 CASE 3969 AB-039
SUBMITTED BY: ANALYST:

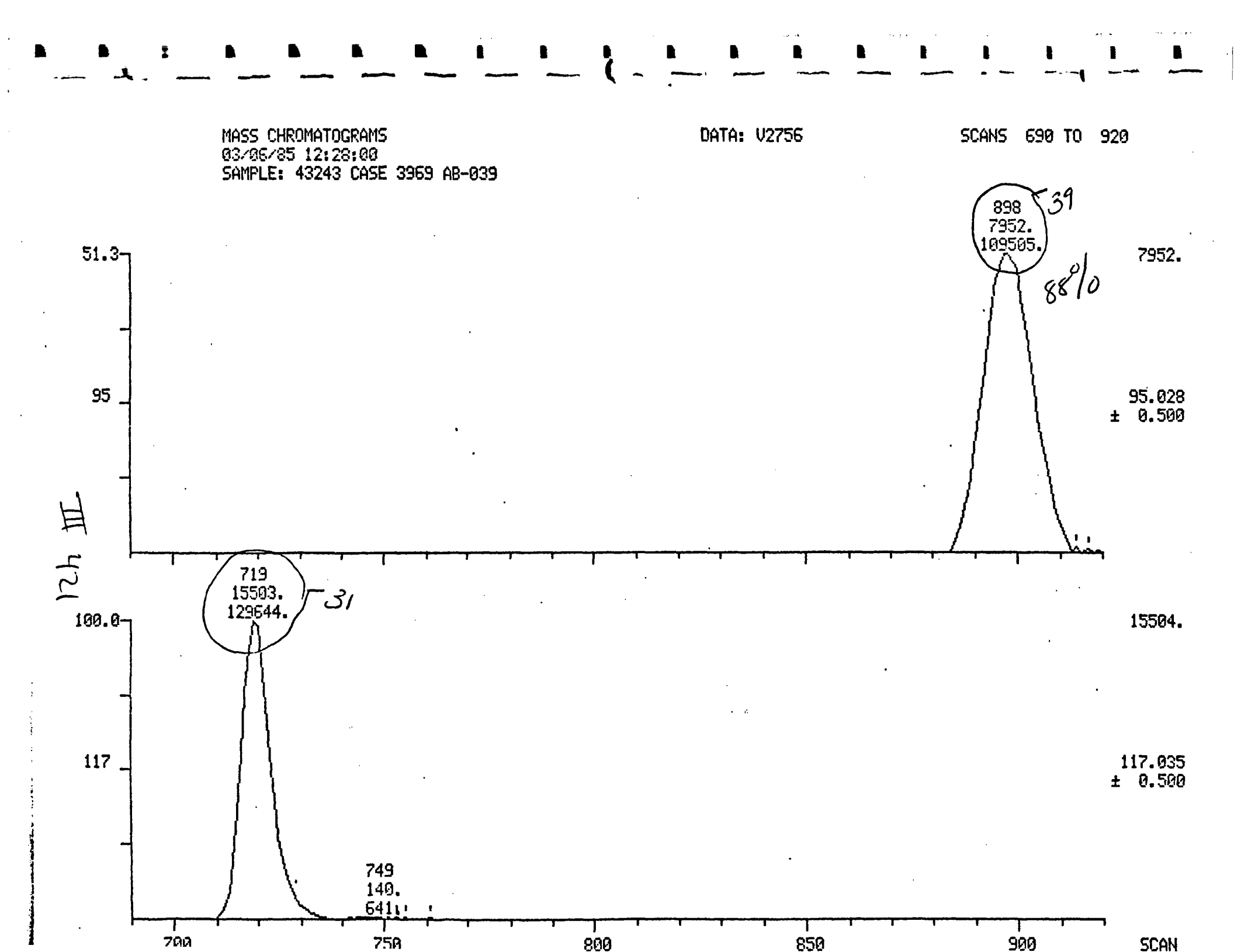
AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

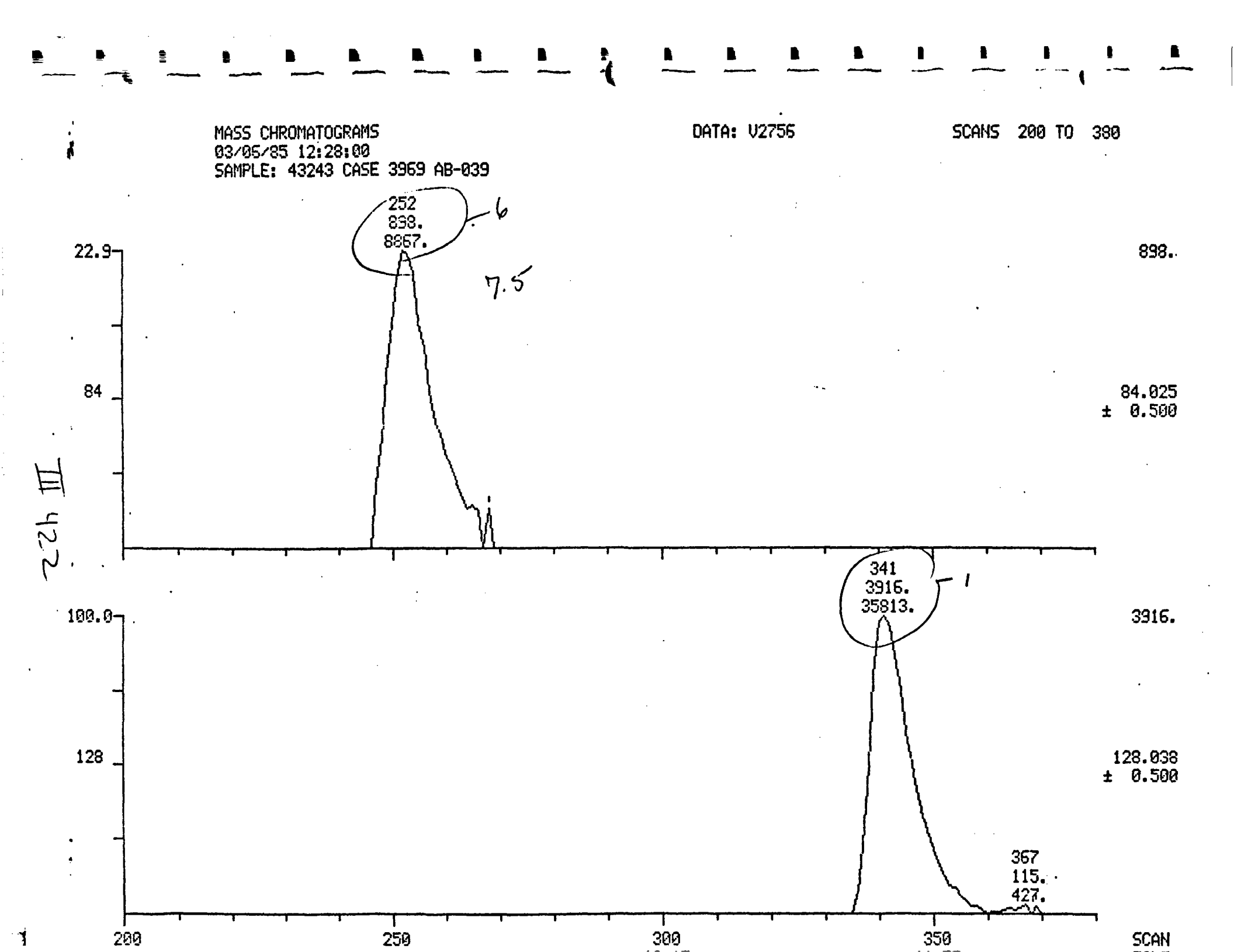
NO	NAME
1	BROMOCHLOROMETHANE(I.S. #1)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE
7	ACETONE
8	CARBON DISULFIDE
9	1,1-DICHLOROETHENE
10	1,1-DICHLOROETHANE
11	TRANS 1,2-DICHLOROETHENE
12	CHLOROFORM
13	1,2-DICHLOROETHANE
14	D4-1,2-DICHLOROETHANE
15	1,1,1-TRICHLOROETHANE
16	1,4-DIFLUROBENZENE(I.S. #2)
17	CARBON TETRACHLORIDE
18	VINYL ACETATE
19	2-BUTANONE
20	BROMODICHLOROMETHANE
21	1,2-DICHLOROPROPANE
22	TRANS 1,3-DICHLOROPROPANE
23	TRICHLOROETHENE
24	DIBROMOCHLOROMETHANE
25	1,1,2-TRICHLOROETHANE
26	BENZENE
27	CIS-1,3-DICHLOROPROPENE
28	BROMOFORM
29	D8-TOLUENE(SURR#2)
30	2-CHLOROETHYLVINYLETHER
31	D5-CHLOROBENZENE(I.S. #3)
32	4 METHYL 2 PENTANONE
33	2-HEXANONE
34	TETRACHLOROETHENE
35	1,1,2,2,TETRACHLOROETHANE
36	TOLUENE
37	CHLOROBENZENE
38	ETHYLBENZENE
39	BFB(SURR#3)
40	STYRENE
41	TOTAL XYLENES

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	341	11:39	1	1.000	A BB	35435.	50.000 UG/L	14.75
2	NOT FOUND								
3	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	65	410	14:00	1	1.202	A BB	111356.	90.496	%REC	26.70
15	NOT FOUND									
16	114	579	19:47	16	1.000	A BB	180510.	50.000	UG/L	14.75
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	98	681	23:16	16	1.176	A BB	210838.	98.461	%REC	29.05
30	NOT FOUND									
31	117	719	24:34	31	1.000	A BB	129190.	50.000	UG/L	14.75
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									

AB-039 Case 3969 3/6/85

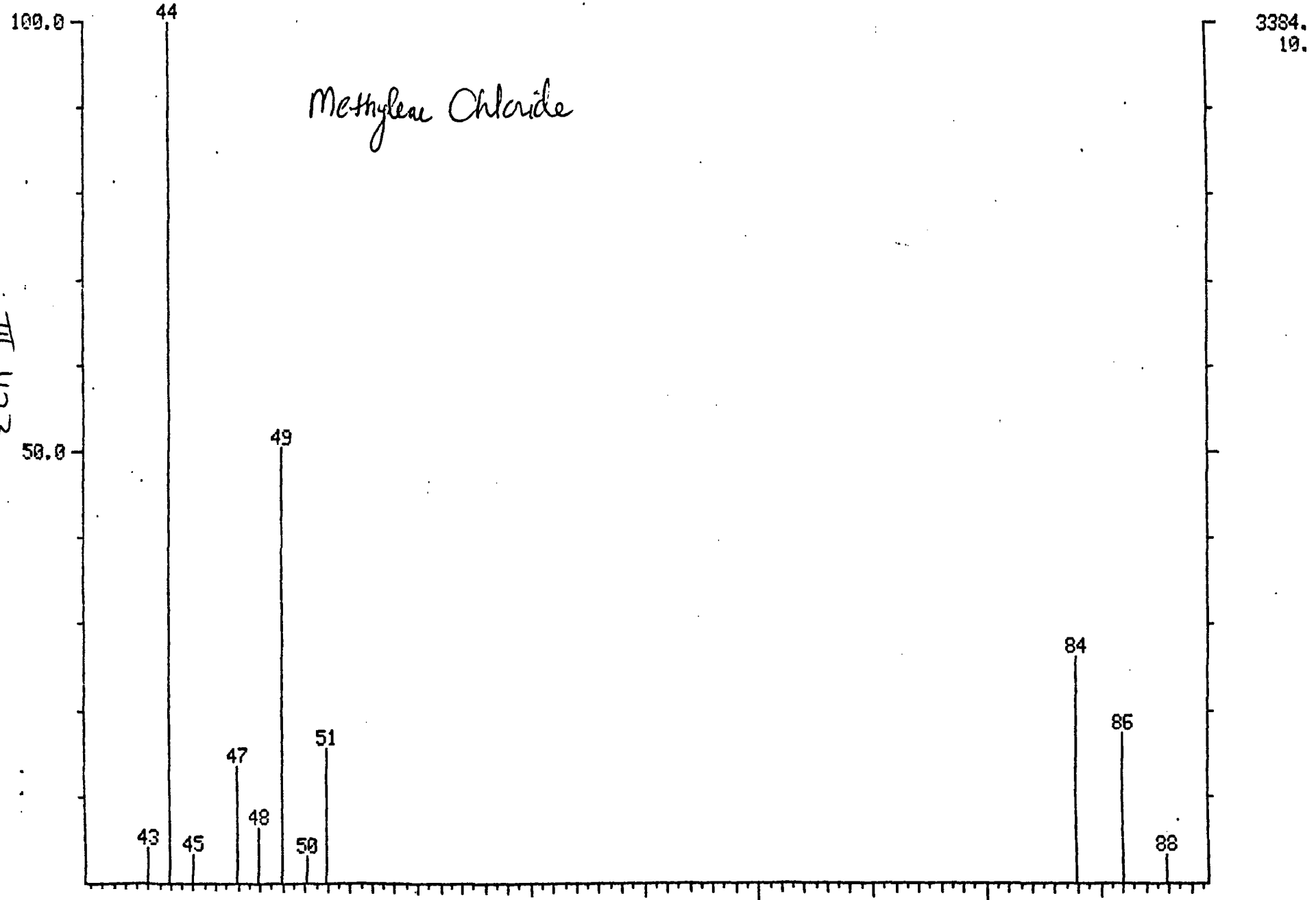

MASS CHROMATOGRAMS
03/06/85 12:28:00
SAMPLE: 43243 CASE 3969 AB-039
DATA: V2756
SCANS 690 TO 920
898
7952.
109505.
39
88%
51.3
7952.
95
95.028
± 0.500
12h III
719
15503.
129644.
31
100.0
15504.
117
117.035
± 0.500
749
140.
641
700
750
800
850
900
SCAN


MASS CHROMATOGRAMS
03/05/85 12:28:00
SAMPLE: 43243 CASE 3969 AB-039
DATA: V2756
SCANS 200 TO 380
252
838.
8867.
6
7.5
22.9
898.
84
84.025
± 0.500
341
3916.
35813.
1
100.0
3916.
128
128.038
± 0.500
367
115.
427.
200
250
300
350
SCAN

MASS SPECTRUM
03/06/85 12:28:00 + 8:39
SAMPLE: 43243 CASE 3969 AB-039

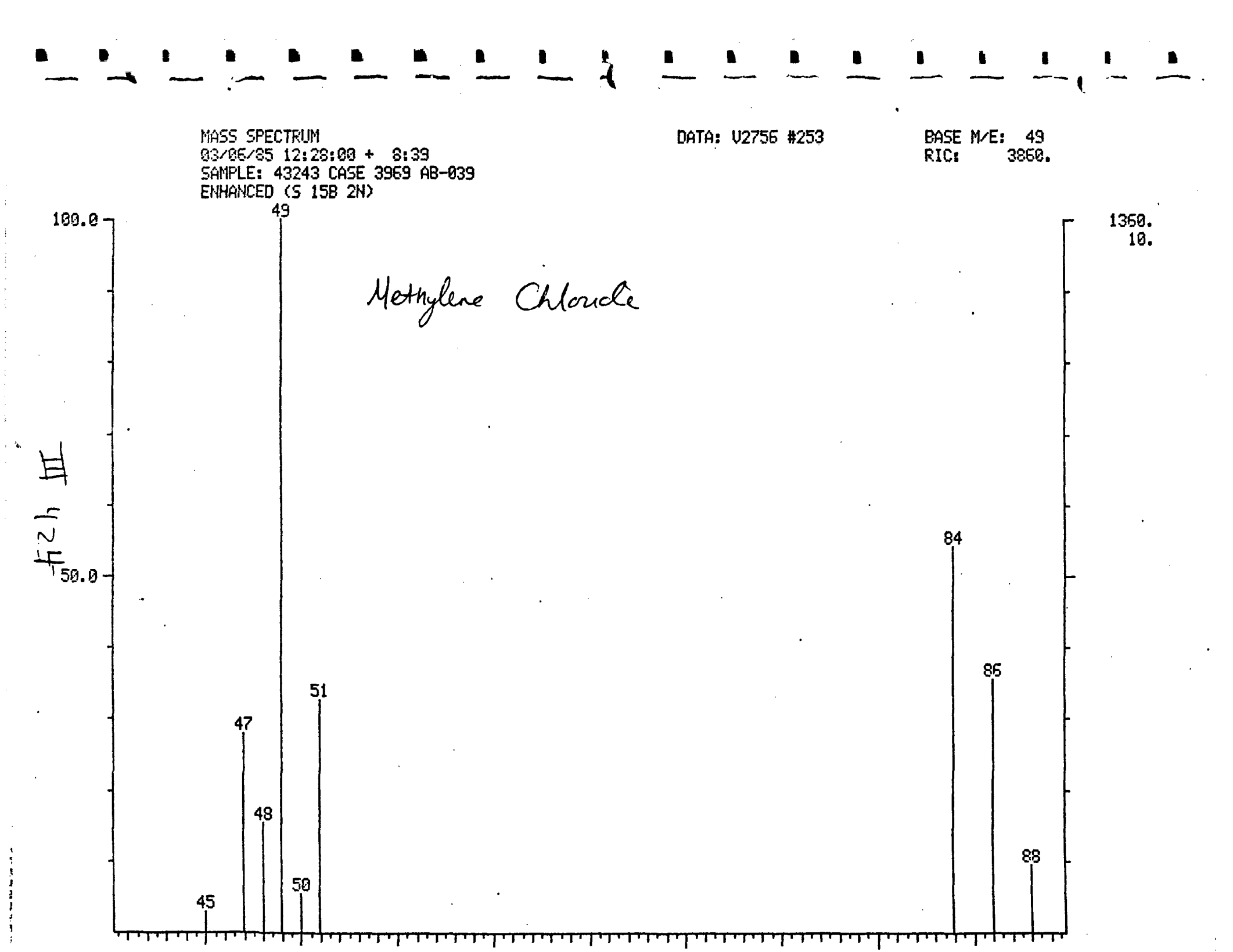
DATA: V2756 #253

BASE M/E: 44
RIC: 8240.



Methylene Chloride

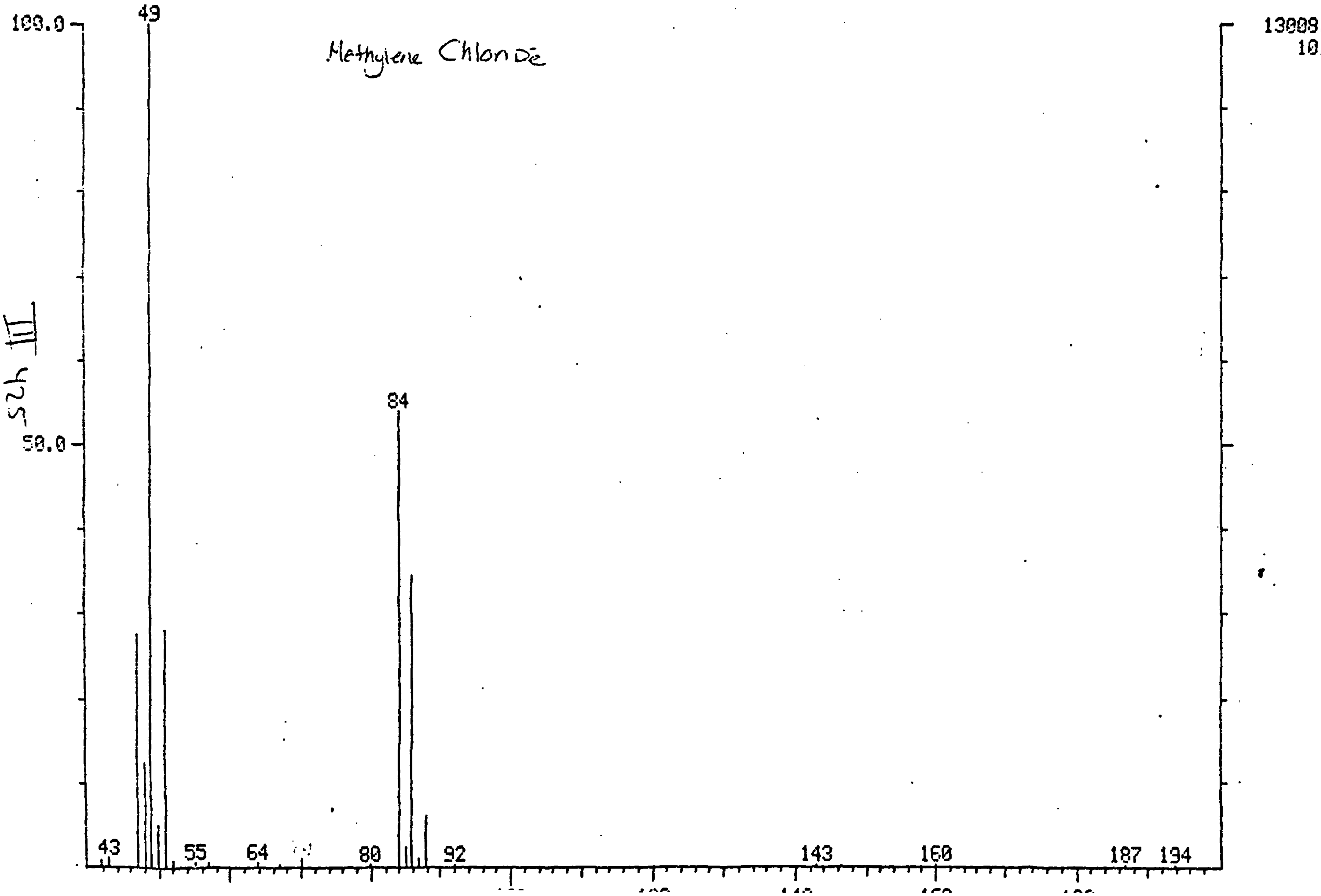
324 III


MASS SPECTRUM
03/06/85 12:28:00 + 8:39
SAMPLE: 43243 CASE 3969 AB-039
ENHANCED (S 15B 2N)
DATA: V2756 #253
BASE M/E: 49
RIC: 3860.
100.0
50.0
1360.
10.
Methylene Chloride
49
84
86
51
47
48
50
45
88

MASS SPECTRUM
03/03/85 12:41:00 + 8:28
SAMPLE:
ENHANCED (S 15B 2N)

DATA: V2708 #248

BASE M/E: 49
RIC: 35224.

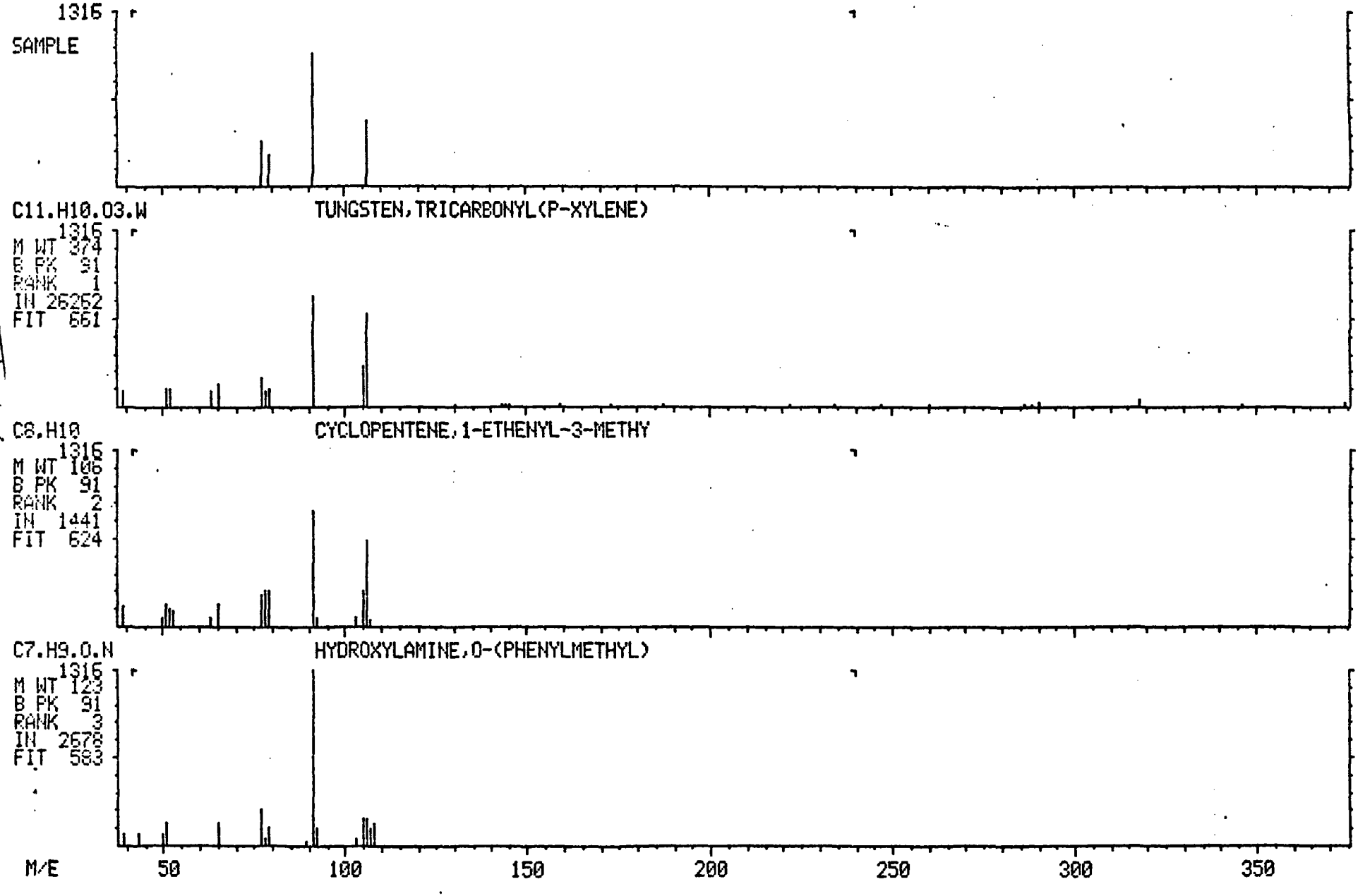


425 III

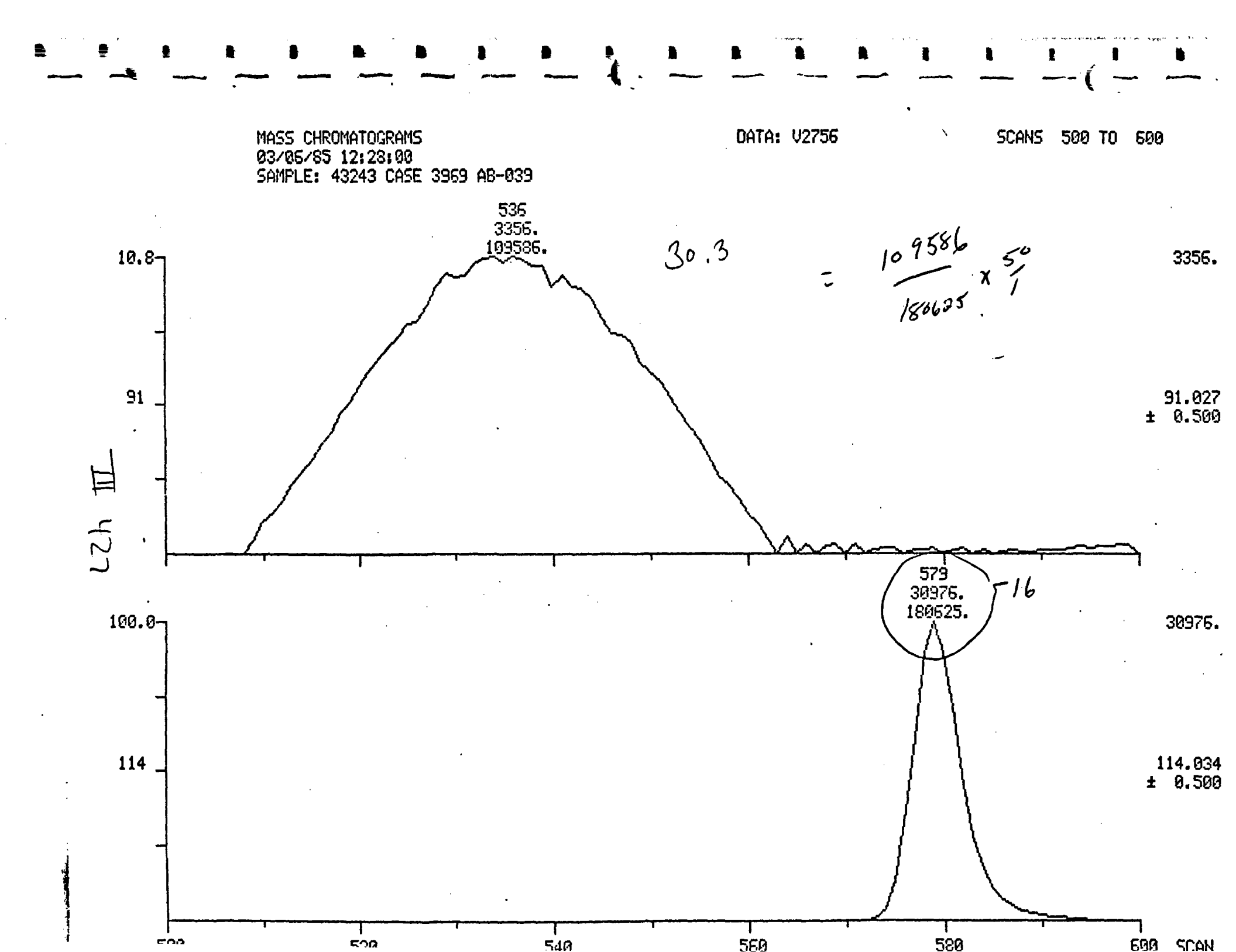
LIBRARY SEARCH
03/06/85 12:28:00 + 18:19
SAMPLE: 43243 CASE 3969 AB-039
ENHANCED (S 15B 2N 0T)

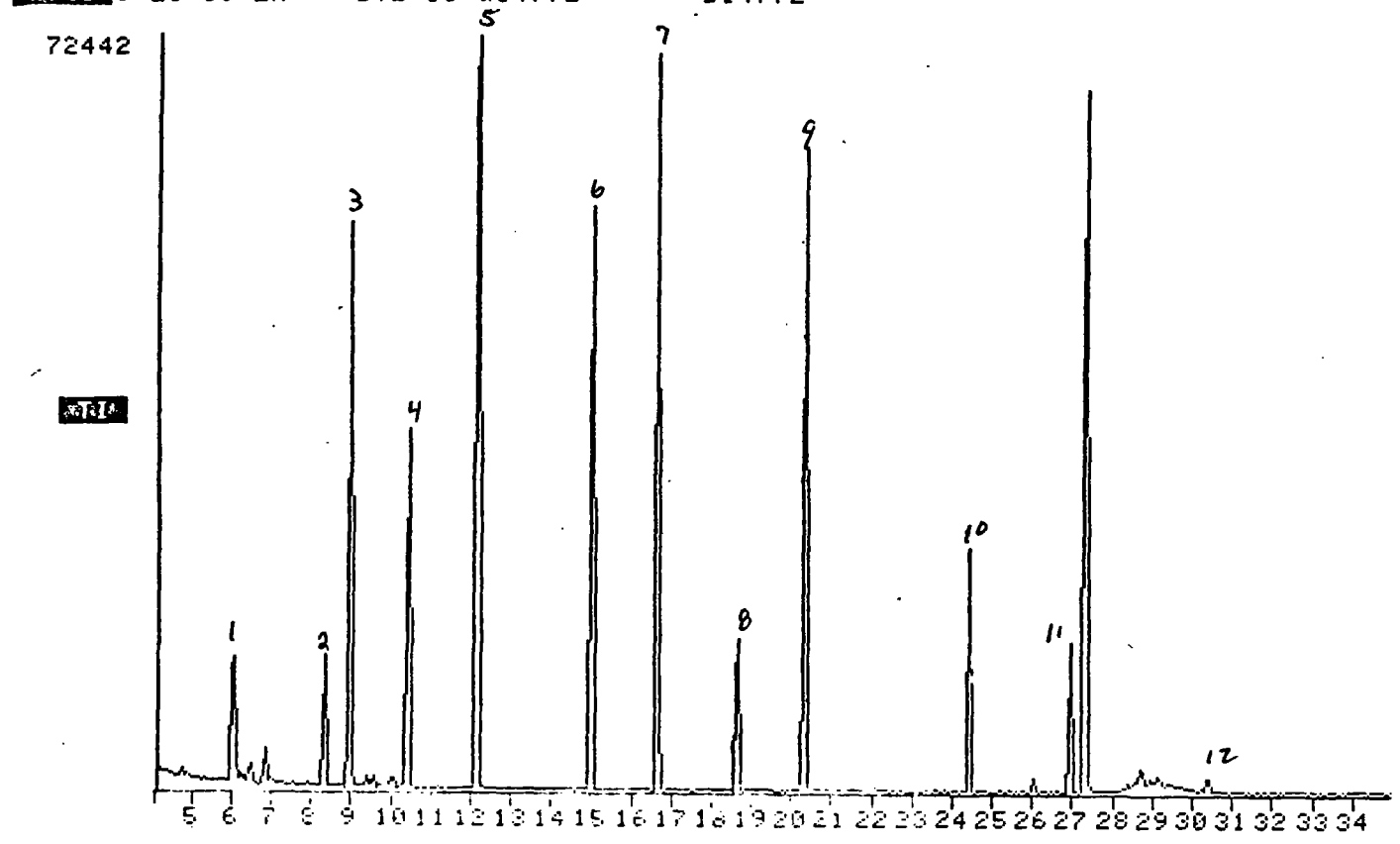
DATA: V2756 # 536

BASE M/E: 91
RIC: 561.



924 III


MASS CHROMATOGRAMS
03/06/85 12:28:00
SAMPLE: 43243 CASE 3969 AB-039
DATA: V2756
SCANS 500 TO 600
536
3356.
109586.
10.8
91
3356.
91.027
± 0.500
579
30976.
180625.
100.0
114
30976.
114.034
± 0.500
500
520
540
560
580
600 SCAN
30.3
= 109586 / 180625 x 50/1
16



1. 2-FLUROPHENOL(SURR)
2. PHENOL-D6(SURR)
3. 1,4-DICHLOROBENZENE-D4(IS)
4. NITROBENZENE-D5(SURR)
5. NAPHTHALENE-D8(IS)
6. 2-FLUOROBIPHENYL (SURR)
7. ACENAPHTHENE-D10(IS)
8. 2,4,6-TRIBROMOPHENOL(SURR)
9. PHENANTHRENE-D10(IS)
10. TERPHENYL-D14(SURR)
11. CHRYSENE-D12(IS)
12. PERYLENE-D12(IS)

FILE NUMBER 14772

43228 AB039 CASE 3969

3/25/85/EM BTL#31 Q14772 D14772

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000				D4-1,4-DICHLOROBENZENE(20)
9.9	74.0	.046	.0000				N-NITROSODIMETHYLAMINE
8.4	93.0	.913	.0000				ANILINE
8.5	93.0	.709	.0000				BIS(2-CHLOROETHYL)ETHER
8.9	146.0	.591	.0000				1,3-DICHLOROBENZENE
9.0	146.0	.594	.0000				1,4-DICHLOROBENZENE
9.5	108.0	.395	.0000				BENZYL ALCOHOL
9.5	146.0	.594	.0000				1,2-DICHLOROBENZENE
9.9	45.0	.527	.0000				BIS(2-CHLOROISOPROPYL)ETHER
10.2	70.0	.490	.0000				N-NITROSODINPROPYLAMINE
10.2	117.0	.291	.0000				HEXACHLOROETHANE
10.5	77.0	.716	.0000				NITROBENZENE
12.1	68.0	1.000	80.0000				D8-NAPHTHALENE(20)
11.1	138.0	1.519	.0000				ISOPHORONE
11.8	95.0	1.813	.0000				BIS(2-CHLOROETHOXY)METHANE
12.1	180.0	2.642	.0000				1,2,4-TRICHLOROBENZENE
12.2	129.0	1.325	.0000				NAPHTHALENE
12.5	127.0	4.577	.0000				4-CHLOROANILINE
12.7	225.0	1.190	.0000				HEXACHLOROBUTADIENE
14.0	115.0	2.578	.0000				2-METHYLNAPHTHALENE
16.7	164.0	1.000	80.0000				D10-ACENAPHTHENE
14.6	237.0	.205	.0000				HEXACHLOROCYCLOPENTADIENE
15.2	164.0	.281	.0000				2-CHLORONAPTHALENE
15.6	138.0	.397	.0000				2-NITROANILINE
16.2	164.0	.083	.0000				DIMETHYL PHTHALATE
16.3	151.0	.272	.0000				ACENAPHTHYLENE
16.4	165.0	.228	.0000				2,6-DINITROTOLUENE
16.7	138.0	.293	.0000				3-NITROANILINE
16.8	152.0	.437	.0000				ACENAPHTHENE
17.2	139.0	.490	.0000				DIBENZOFURAN
17.3	165.0	.320	.0000				2,4-DINITROTOLUENE
18.0	177.0	.171	.0000				DIETHYL PHTHALATE
18.0	165.0	.820	.0000				FLUORENE
18.1	204.0	.358	.0000				4-CHLOROPHENYLPHENYL ETHER
18.2	138.0	.292	.0000				4-NITROANILINE
17.2	169.0	.144	.0000				DIPHENYLAMINE

FILE NUMBER 14772

43228 AB039 CASE 3969

3/25/85/EM BTL#31 Q14772 D14772

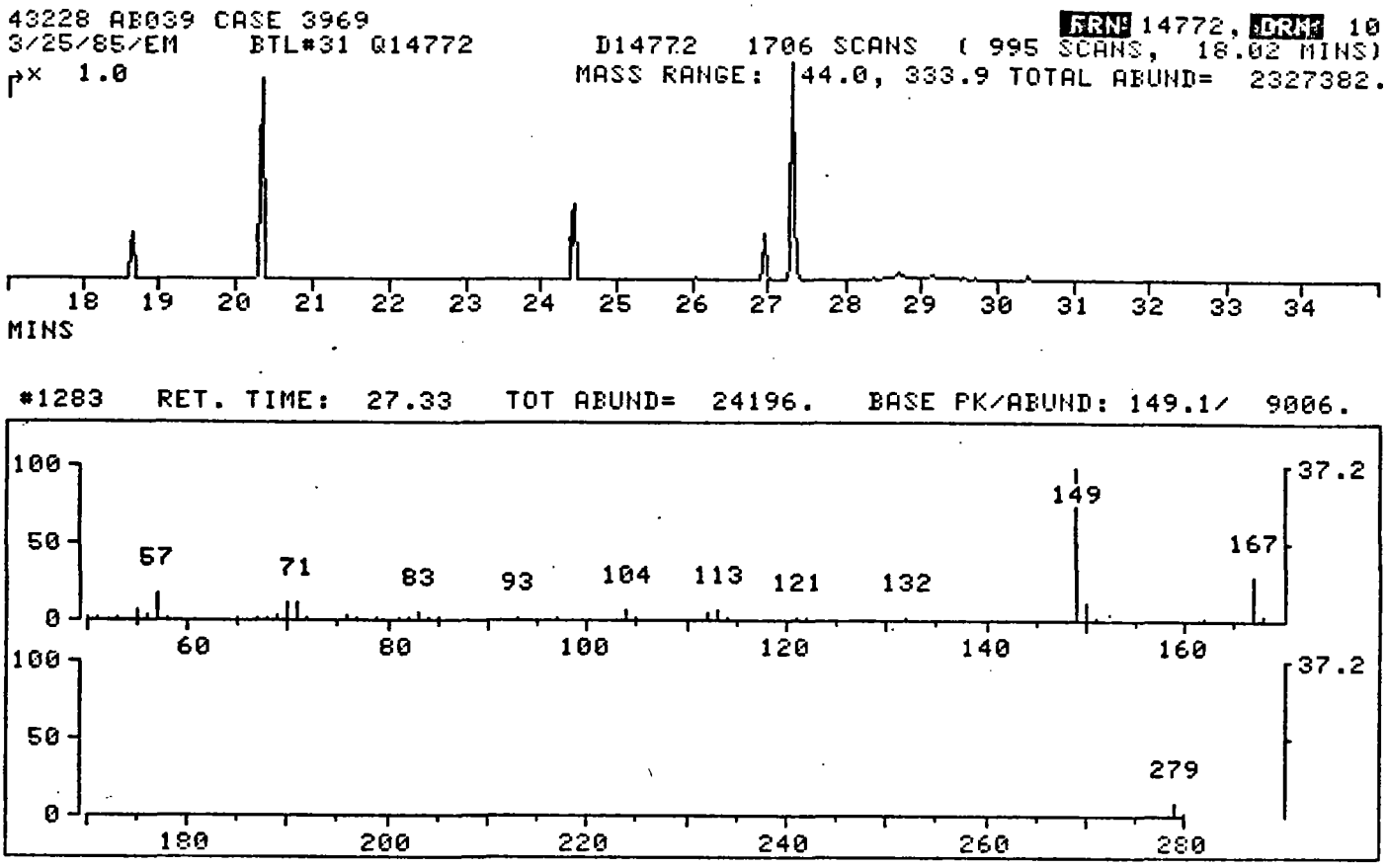
AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE(20)			
19.3	248.0	.112	.0000	4-BROMOPHENYLPHENYL ETHER			
19.6	284.0	.112	.0000	HEXACHLOROBENZENE			
20.4	179.0	.060	.0000	PHENANTHRENE/ANTHRACENE			
22.1	150.0	.100	.0000	DIBUTYL PHTHALATE			
23.4	202.0	.665	.0000	FLUORANTHENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.9	202.0	2.264	.0000	PYRENE			
25.8	149.0	1.136	.0000	BUTYL BENZYL PHTHALATE			
26.9	228.0	.427	.0000	BENZO(A)ANTHRACENE/CHRYSENE			
27.3	149.0	1.128	312.9294 ✓	BIS(2-ETHYLHEXYL)PHTHALATE			
30.4	264.0	1.000	80.0000	D12-PERYLENE			
28.7	149.0	5.974	~~29.8087~~ EM	DIOCTYL PHTHALATE			
29.5	252.0	1.307	.0000	BENZO(B)/(K)FLUORANTHENE			
30.2	252.0	.744	.0000	BENZO(A)PYRENE			
33.7	276.0	.485	.0000	INDENO(123-CD)PYRENE			
33.8	278.0	.346	.0000	DIBENZO(AH)ANTHRACENE			
34.6	276.0	.360	.0000	BENZO(GHI)PERYLENE			
27.0	240.0	1.000	80.0000	D12-CHRYSENE			
23.8	184.0	.712	.0000	BENZIDINE			
27.0	252.0	.146	.0000	DICHLOROBENZIDINE			

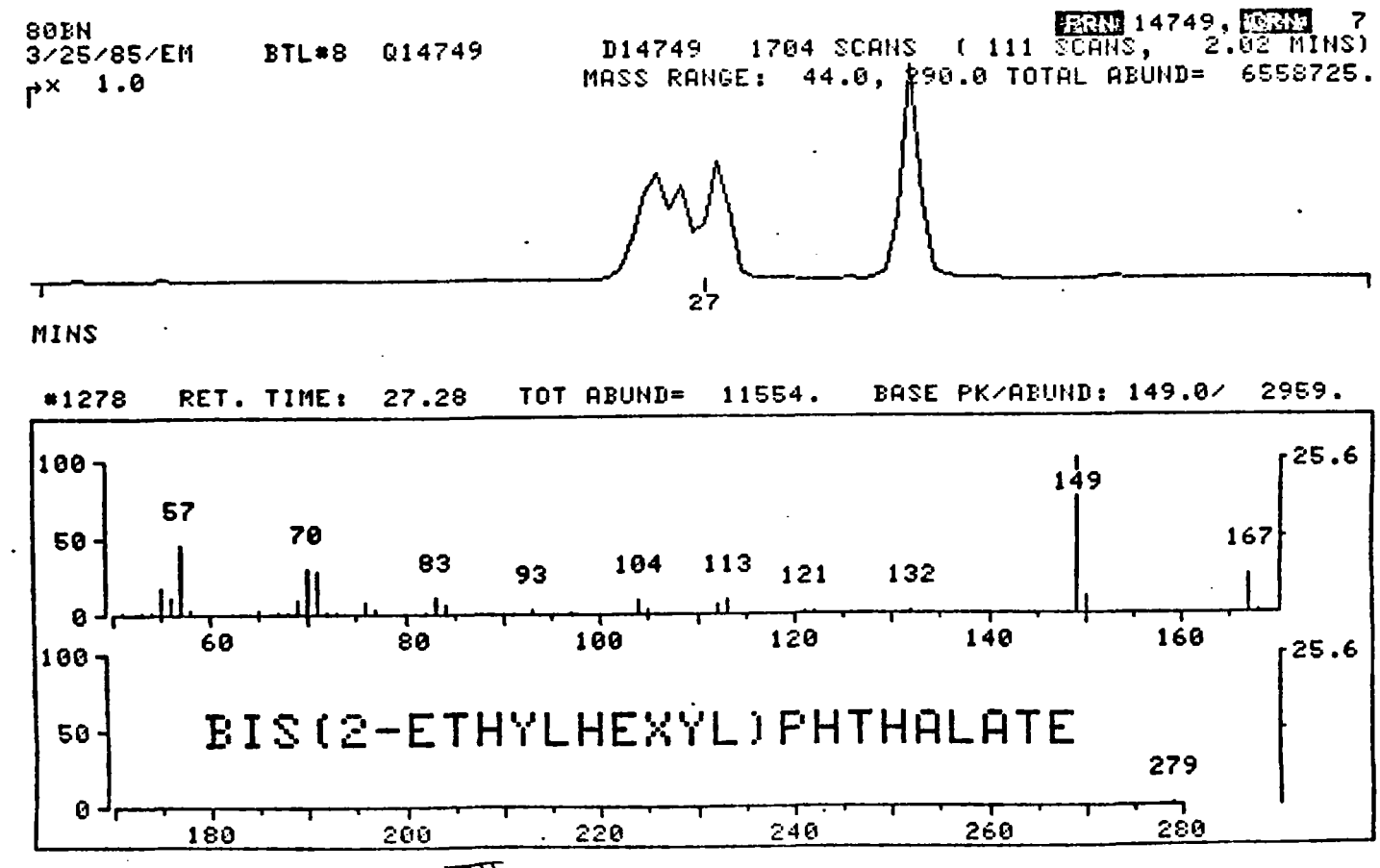
FILE NUMBER 14772

43228 AB039 CASE 3969

3/25/85/EM BTL#31 Q14772 D14772

AREA	R. TIME	START	STOP	MAXIMA	# SUMS	MASS	BASE
9.0	150.0	1.000	80.0000	D4-1,4-DICHLOROBENZENE(20)			
8.4	94.0	.841	.0000	PHENOL			
8.6	128.0	.611	.0000	2-CHLOROPHENOL			
9.9	108.0	.671	.0000	2-METHYLPHENOL			
10.2	108.0	.699	.0000	4-METHYLPHENOL			
12.1	68.0	1.000	80.0000	D8-NAPHTHALENE(20)			
11.3	139.0	1.759	.0000	2-NITROPHENOL			
11.5	122.0	2.581	.0000	2,4-DIMETHYLPHENOL			
12.1	122.0	1.200	.0000	BENZOIC ACID			
11.9	162.0	2.051	.0000	2,4-DICHLOROPHENOL			
13.8	142.0	2.196	.0000	4-CHLORO-M-CRESOL			
16.7	164.0	1.000	80.0000	D10-ACENAPHTHENE(20)			
14.8	196.0	.237	.0000	2,4,5-TRICHLOROPHENOL			
14.8	196.0	.237	.0000	2,4,6-TRICHLOROPHENOL			
17.0	184.0	.111	.0000	2,4-DINITROPHENOL			
18.3	198.0	.126	.0000	4,6-DINITRO-O-CRESOL			
17.2	65.0	.231	.0000	4-NITROPHENOL			
20.3	188.0	1.000	80.0000	D10-PHENANTHRENE			
20.1	266.0	.072	.0000	PENTACHLOROPHENOL			


43228 AB039 CASE 3969
3/25/85/EM BTL#31 Q14772
FRN: 14772, DRN: 10
D14772 1706 SCANS (995 SCANS, 18.02 MINS)
MASS RANGE: 44.0, 333.9 TOTAL ABUND= 2327382.
1.0
MINS
#1283 RET. TIME: 27.33 TOT ABUND= 24196. BASE PK/ABUND: 149.1/ 9006.
37.2
37.2


80BN
3/25/85/EM BTL#8 Q14749
FRN: 14749, DRN: 7
D14749 1704 SCANS (111 SCANS, 2.02 MINS)
MASS RANGE: 44.0, 290.0 TOTAL ABUND= 6558725.
1.0
MINS
#1278 RET. TIME: 27.28 TOT ABUND= 11554. BASE PK/ABUND: 149.0/ 2959.
25.6
25.6
BIS(2-ETHYLHEXYL)PHTHALATE

III

432

Date 3/30/85 Analyst BL Contract 3-705-050

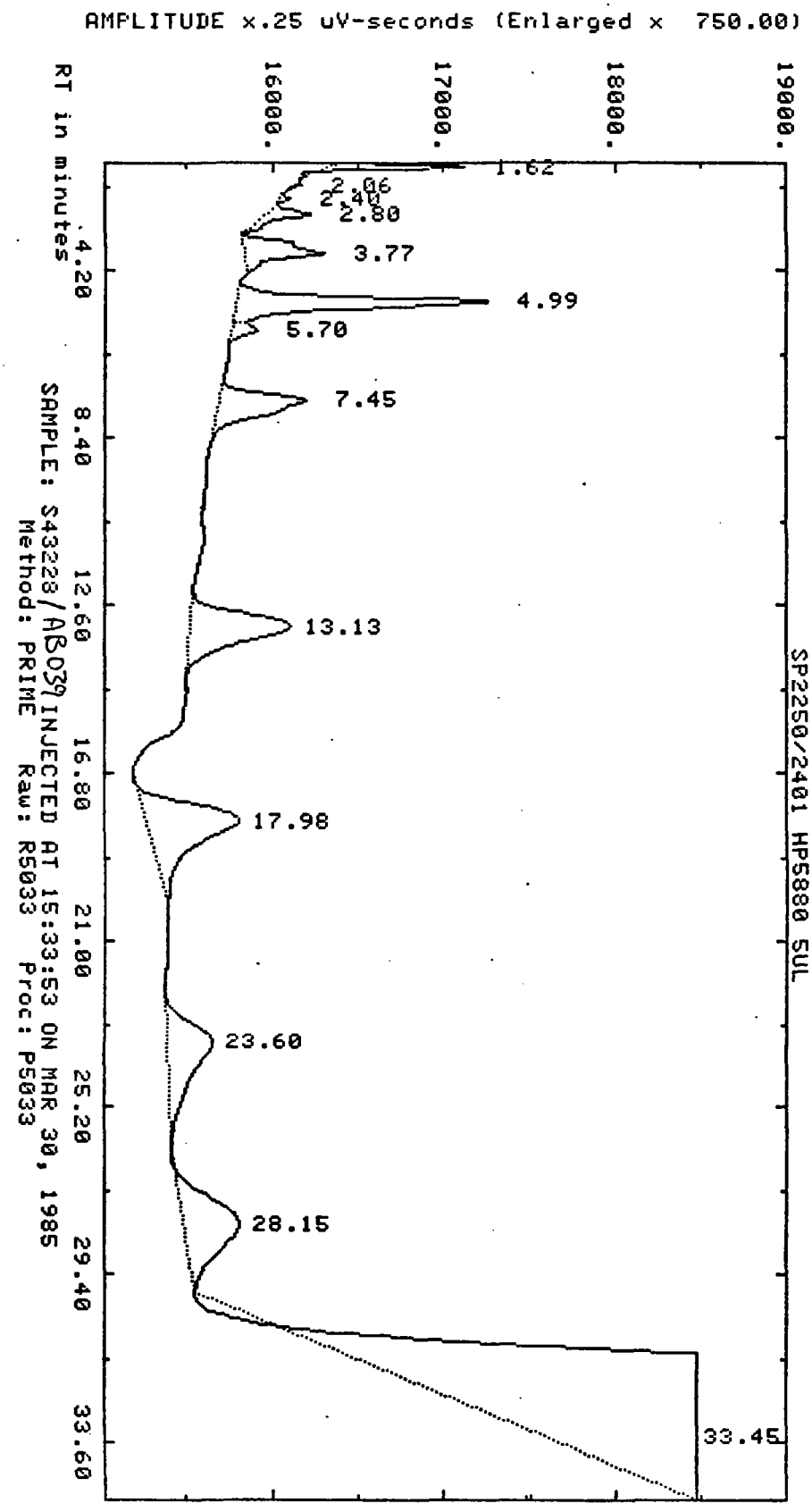
Pesticide Analysis - Qualitative/Quantitative

Case # 3969

Sample I.D. 43228/AB039 HP 5880
Run # 33 Bottle # 33

RT (min.)	Peak ID	Area x 10^3	ng/ml	Dilution Factor (mls extracted)	(ug/l) ppb	total ug
No	Peaks					
	DBC obscured by peak at 33 min					

GCA CORPORATION
Technology Division



Case 3969

II 434

*LI,P,P5033

PROCESSED DATA FILE: P5033 ON CRN 21

Case 3969

APR 2, 1985 11:44:16

REPORT: 129 CHANNEL: 2 # PEAKS: -16 SP2250/2401 HP5880 SUL

PEAK	RT	ITM	FACTOR	AREA		AREA %	NAME
1	1.30	0.00	1.00000	86	BB	.002	
2	1.62	0.00	1.00000	2729	BB	.062	
3	2.06	0.00	1.00000	129	BV	.003	
4	2.40	0.00	1.00000	177	VB	.004	
5	2.80	0.00	1.00000	2178	BV	.050	
6	3.77	0.00	1.00000	5672	VB	.130	
7	4.99	0.00	1.00000	14669	BV	.336	
8	5.70	0.00	1.00000	1311	VB	.030	
9	7.45	0.00	1.00000	9182	BB	.210	
10	13.13	0.00	1.00000	14010	BB	.321	
11	17.98	0.00	1.00000	18581	BB	.425	
12	23.60	0.00	1.00000	12479	BB	.286	
13	28.15	0.00	1.00000	14618	BV	.334	
14	33.45	0.00	1.00000	3864802	VV	88.435	
15	37.16	0.00	1.00000	337359	VV	7.720	
16	38.99	0.00	1.00000	72217	VF	1.652	

TOTAL AREA = 4370202 TOTAL AREA % = 100.000

SAMPLE: S43228/AB039 INJECTED AT 15:33:53 ON MAR 30, 1985

ZERO METHOD: PRIME SEQ: SM03 SUBSQ/SAMP: 1 / 33 BTL: 33

SL-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH	REPORT
.500	.300	1.00	50	AUTO	MEDIUM

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	ISO
NO	0.00	0	.30	5.0	100.00	NO

ACTUAL RUN TIME: 40.008 MINUTES

RF-UNK: 1.00000 STD-AMT: 1.0000 SAMP-AMT: 1.0000

ENDED NOT ON BASELINE

RAW DATA FILE: R5033 PARAM FILES= METHOD: SEQ:

DONE
READY

CAMP DRESSER & McKEE INC.
7630 LITTLE RIVER TURNPIKE
SUITE 500
ANNANDALE, VIRGINIA 22003
703 642-5500