

RAW QC DATA

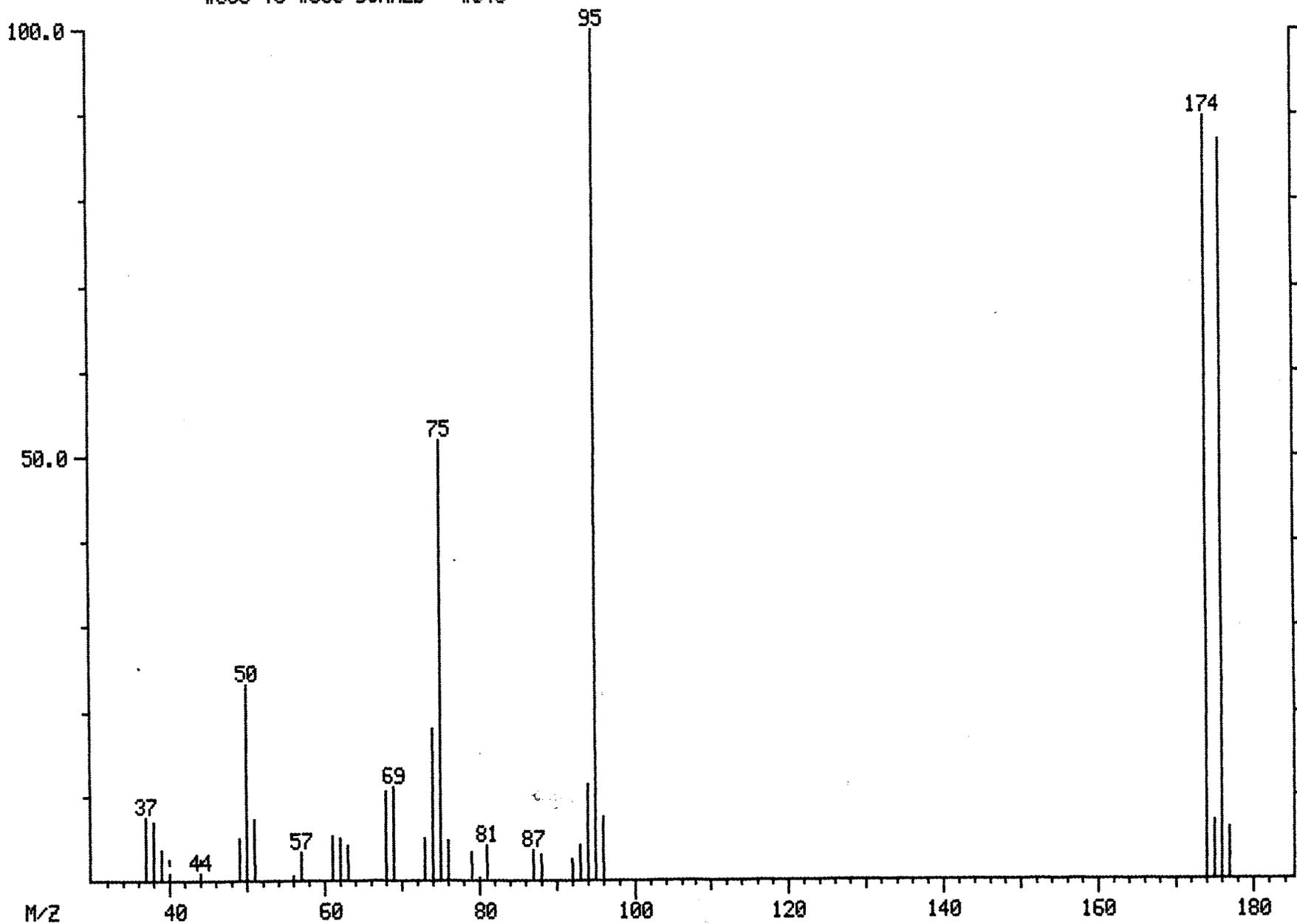


RECRA
ENVIRONMENTAL
INC.

MASS SPECTRUM
04/26/93 8:44:00 + 5:16
SAMPLE: 0426BFBH1
CONDS.: I50H
TEMP: 150 DEG. C
#363 TO #365 SUMMED - #340

DATA: H1792 #364
CALI: CALTAB #3

BASE M/Z: 95
RIC: 43008.



8544.
0.

10216

Mass List

04/26/93 8:44:00 + 5:16

Data: H1792 # 364
Cali: CALTAB # 3Base m/z: 95
RIC: 43008.

Sample: 0426BFBH1

Conds.: I50H

#363 to #365 summed - #340

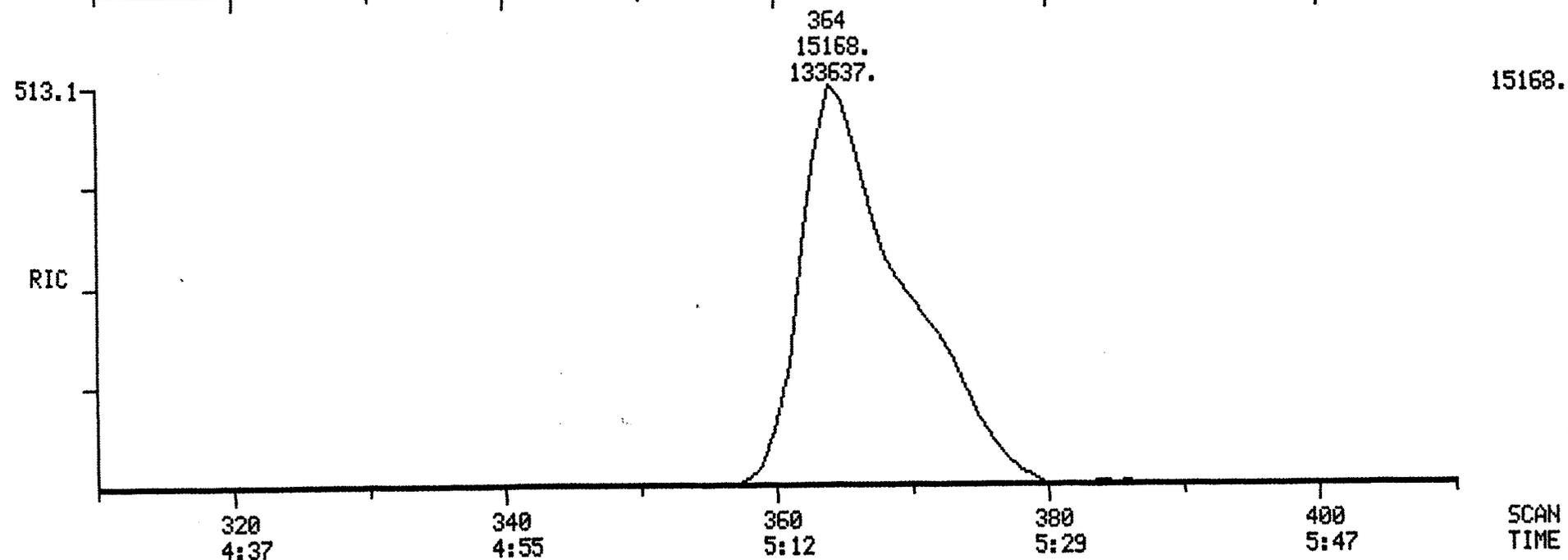
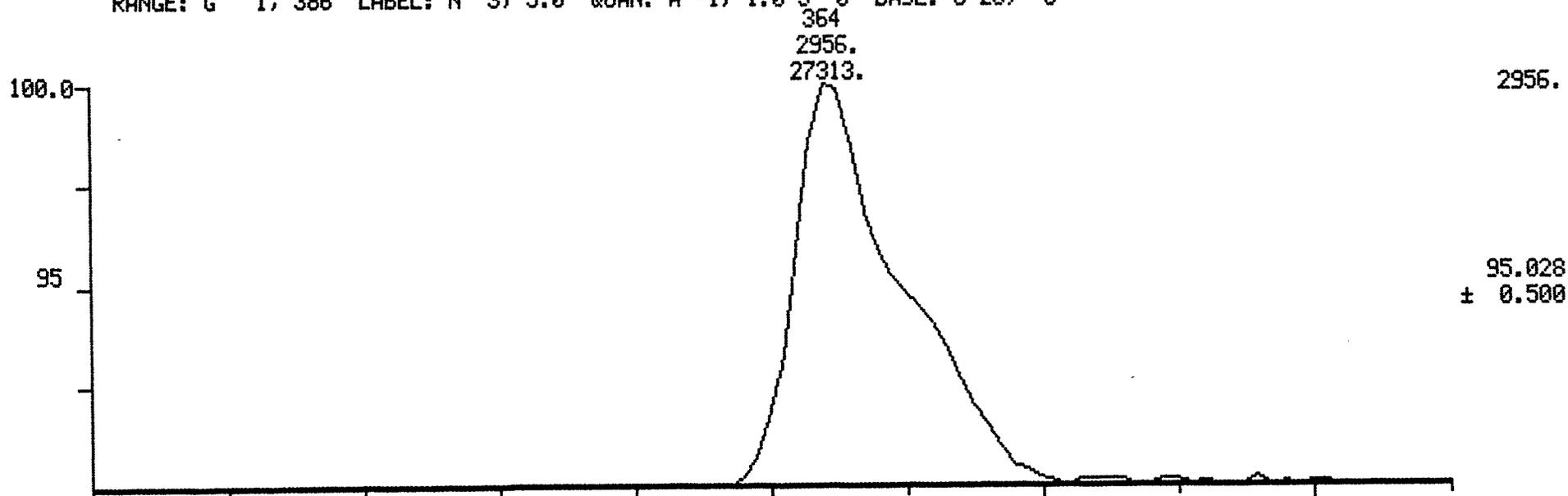
37	0.00	0.	Minima	Min Inten:	0.
177			Maxima	#	0
Mass	% RA	Inten.			
37	7.47	638.			
38	6.92	591.			
39	3.59	307.			
40	0.80	68.			
44	0.81	69.			
49	5.10	436.			
50	23.20	1982.			
51	7.06	603.			
56	0.47	40.			
57	3.34	285.			
61	5.27	450.			
62	4.90	419.			
63	4.04	345.			
68	10.40	889.			
69	11.08	947.			
73	5.02	429.			
74	17.91	1530.			
75	52.06	4448.			
76	4.73	404.			
79	3.29	281.			
80	0.37	32.			
81	4.20	359.			
87	3.46	296.			
88	3.07	262.			
92	2.50	214.			
93	4.27	365.			
94	11.21	958.			
95	100.00	8544.			
96	7.40	632.			
174	89.70	7664.			
175	7.02	600.			
176	87.08	7440.			
177	6.18	528.			

RIC+MASS CHROMATOGRAM
04/26/93 8:44:00
SAMPLE: 0426BF0H1
CONDS.: I50H
RANGE: G 1, 386 LABEL: N 3, 5.0

DATA: H1792 #363
CALI: CALTAB #3

SCANS 310 TO 410

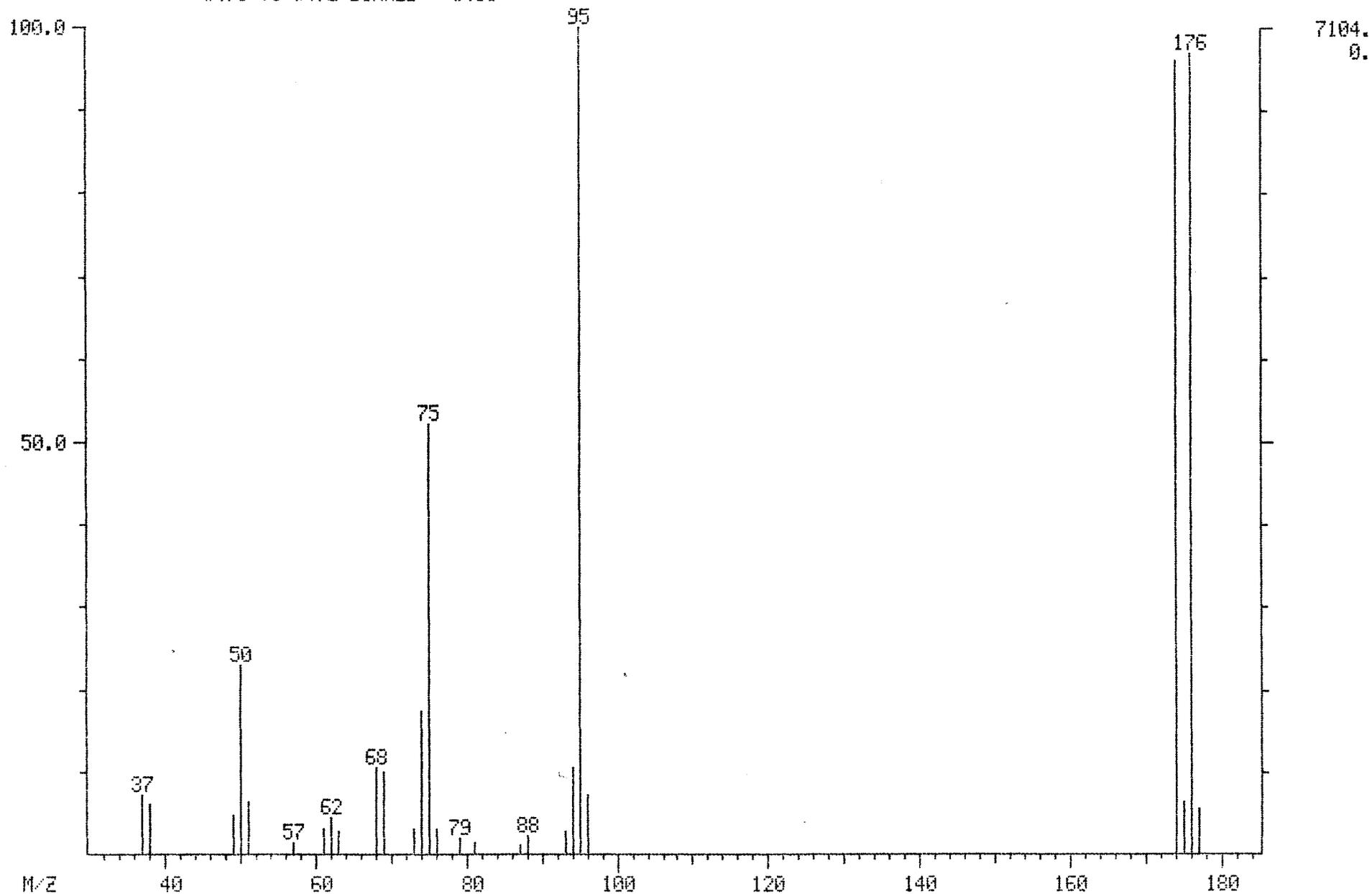
QUAN: A -1, 1.0 J 0 BASE: U 20, 3



MASS SPECTRUM
08/18/93 10:42:00 + 6:48
SAMPLE: 08188FBH1
CONDS.: 150H
TEMP: 149 DEG. C
#470 TO #472 SUMMED - #450

DATA: H2301 #471
CALI: CALTAB #3

BASE M/Z: 95
RIC: 34624.



10219

Mass List

08/18/93 10:42:00 + 6:48

Data: H2301 # 471

Cali: CALTAB # 3

Base m/z: 950220

RIC: 34624.

Sample: 0818BFBH1

Conds.: I50H

#470 to #472 summed - #450

Mass	% RA	Inten.	Minima Maxima	Min Inten: # 0	0.
37	7.26	516.			
38	5.97	424.			
49	4.57	325.			
50	22.86	1624.			
51	6.43	457.			
57	1.30	92.			
61	3.05	217.			
62	4.49	319.			
63	2.74	195.			
68	10.49	745.			
69	10.01	711.			
73	3.17	225.			
74	17.45	1240.			
75	52.20	3708.			
76	3.10	220.			
79	1.84	131.			
81	1.39	99.			
87	0.99	70.			
88	2.18	155.			
93	2.86	203.			
94	10.39	738.			
95	100.00	7104.			
96	7.14	507.			
174	96.17	6832.			
175	6.40	455.			
176	96.96	6888.			
177	5.66	402.			

0221
520 SCANS
7:31 TIME

440 6:22
460 6:39
480 6:56
500 7:14

RIC
491.5

11520.

471
11520.
127988.

95.028
± 0.500

95

2344.

471
2344.
28880.

100.0

RIC+MASS CHROMATOGRAM
DATA: H2301 #470 SCANS 430 TO 520
CALI: CALTAB #3
RANGE: G 1, 495 LABEL: N 3, 5.0 QUAN: A -1, 1.0 U 0 BASE: U 20, 3
COND5.: 150H
SAMPLE: 08188FBH1
08/18/93 10:42:00

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK61

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393
 Matrix: (soil/water) SOIL Lab Sample ID: AM002962
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: H2305
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 08/18/93
 GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	0.8	J
108-90-7	-----Chlorobenzene	1	J
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Total Xylenes	0.5	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK61

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393

Matrix: (soil/water) SOIL Lab Sample ID: AM002962

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H2305

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

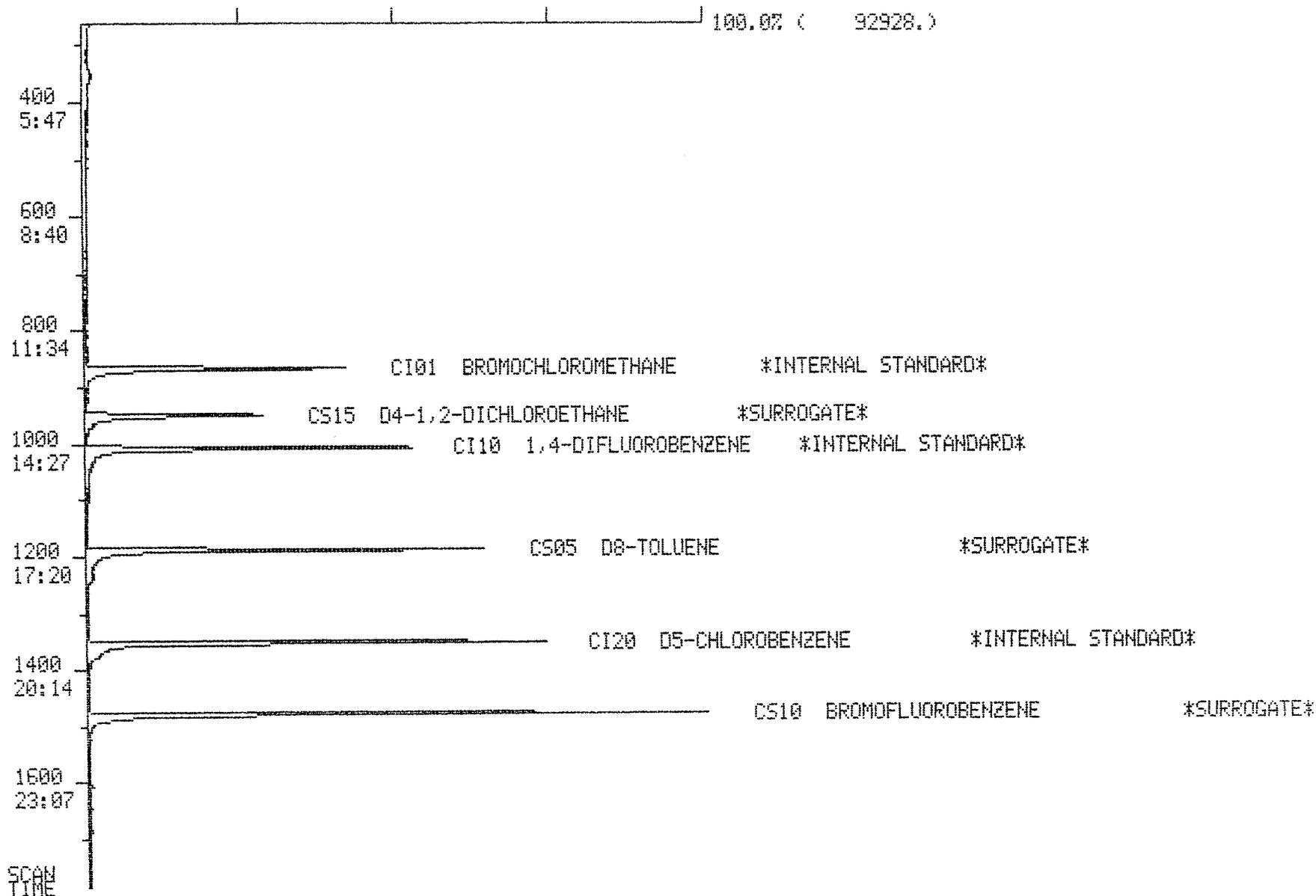
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

DATA FROM FILE: H2305

SCANS 250 TO 1785 ACQUIRED: 08/18/93 13:30:00
CALI: H2305 #3

SAMPLE: UBLK51
CONDS.: I50H



Quantitation Report File: H2305

Data: H2305.TI
 08/18/93 13:30:00
 Sample: VBLK61
 Conds.: I50H
 Formula:
 Submitted by:

Instrument: I50H
 Analyst: JUL

Weight: 0.000
 Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
 Resp. fac. from Library Entry

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	CO10	CHLOROMETHANE
8	CO15	BROMOMETHANE
9	CO20	VINYL CHLORIDE
10	CO25	CHLOROETHANE
11	CO30	METHYLENE CHLORIDE
12	CO35	ACETONE
13	CO40	CARBON DISULFIDE
14	CO45	1,1-DICHLOROETHENE
15	CO50	1,1-DICHLOROETHANE
16	CO57	TRANS-1,2-DICHLOROETHENE
17	CO60	CHLOROFORM
18	CO65	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICHLOROMETHANE
24	CO56	CIS-1,2-DICHLOROETHENE
25	CO36	ACROLEIN
26	CO38	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
41	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

SED
 8/18/93
 No Ads
 TIC
 R+E

~~2696~~
 2665

No Name
 48 C246 M, P--XYLENE
 49 C247 O--XYLENE
 50 C260 1, 3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	864	12:29	1	1.000	A BB	33161.	250.000 NG	16.82
2	114	1005	14:31	2	1.000	A BB	115856.	250.000 NG	16.82
3	117	1349	19:30	3	1.000	A BB	109254.	250.000 NG	16.82
4	65	947	13:41	1	1.096	A BB	58377.	236.425 NG	15.91
5	98	1186	17:08	3	0.879	A BB	106192.	250.819 NG	16.87
6	95	1477	21:21	3	1.095	A BB	86781.	239.393 NG	16.11
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
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28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
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								
42	NOT FOUND								
43	NOT FOUND								
44	91	1194	17:15	3	0.885	A BB	1934.	4.059 NG	0.27
45	112	1352	19:32	3	1.002	A BV	2356.	4.790 NG	0.32
46	NOT FOUND								
47	NOT FOUND								
48	106	1376	19:53	3	1.020	A BB	626.	2.288 NG	0.15
49	NOT FOUND								
50	NOT FOUND								

area RF ng
 Total Xylenes 626 0.599 2.391

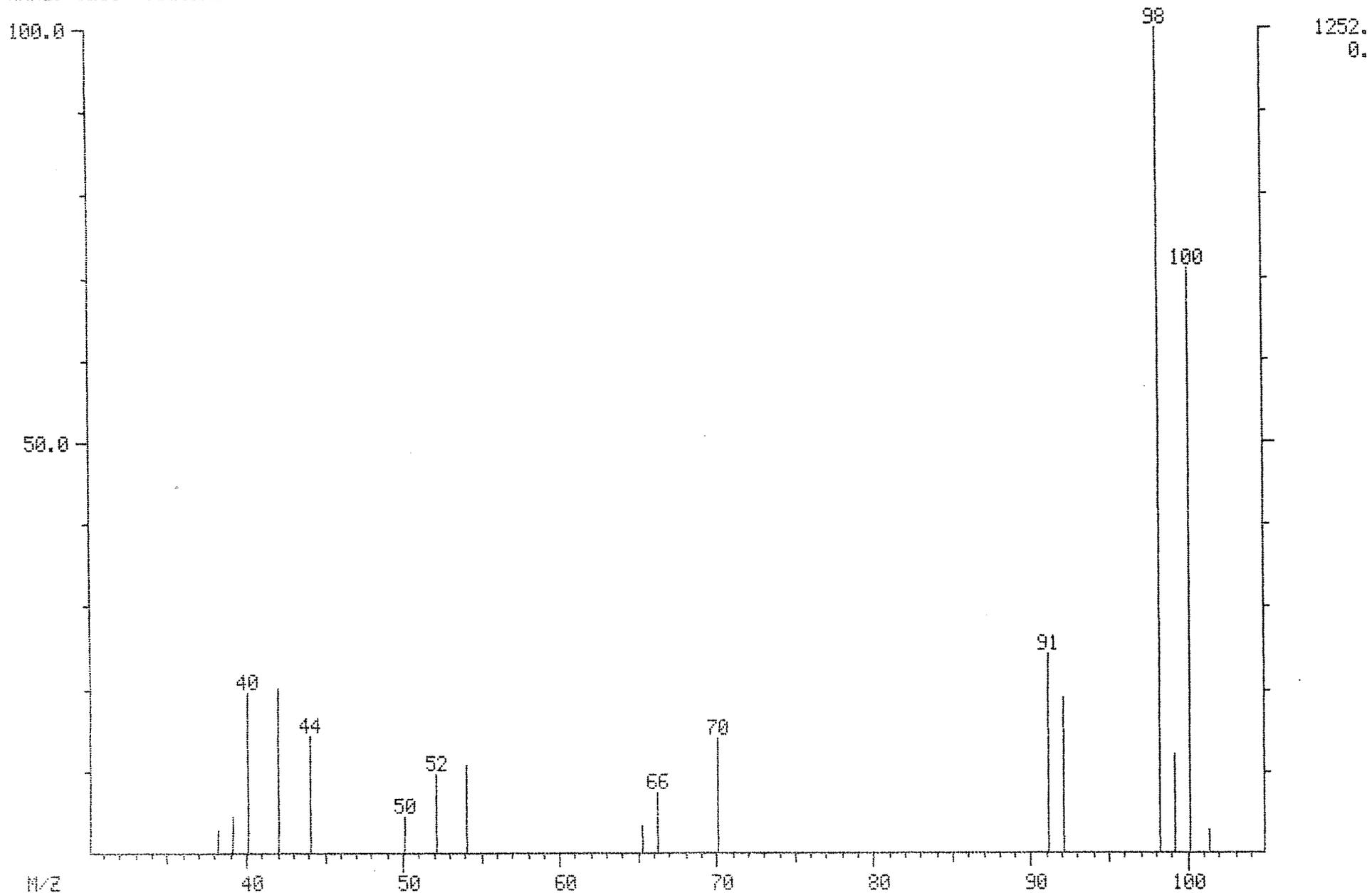
MM
 9/14/93

MASS SPECTRUM
08/18/93 13:30:00 + 17:16
SAMPLE: UBLK61
CONDS.: I50H
TEMP: 131 DEG. C

DATA: H2305 #1195
CALI: H2305 #3

BASE M/Z: 98
RIC: 4254.

NAME: C230 TOLUENE

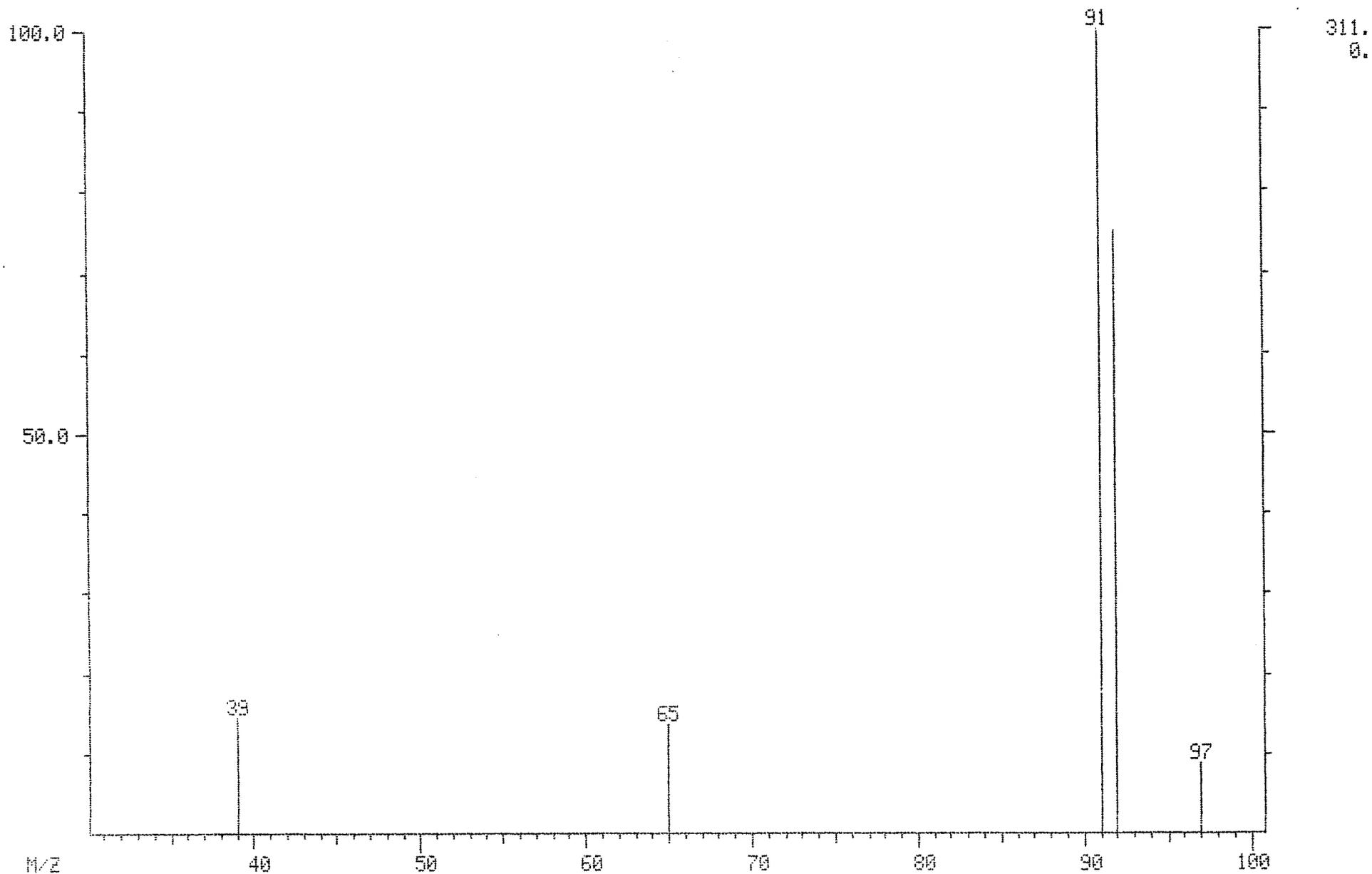


0228

MASS SPECTRUM
08/18/93 13:30:00 + 17:16
SAMPLE: UBLK61
CONDS.: I50H
TEMP: 131 DEG. C
ENHANCED (S 15B 2H 0T)NAME: C230 TOLUENE

DATA: H2305 #1195
CALI: H2305 #3

BASE M/2: 91
RIC: 658.



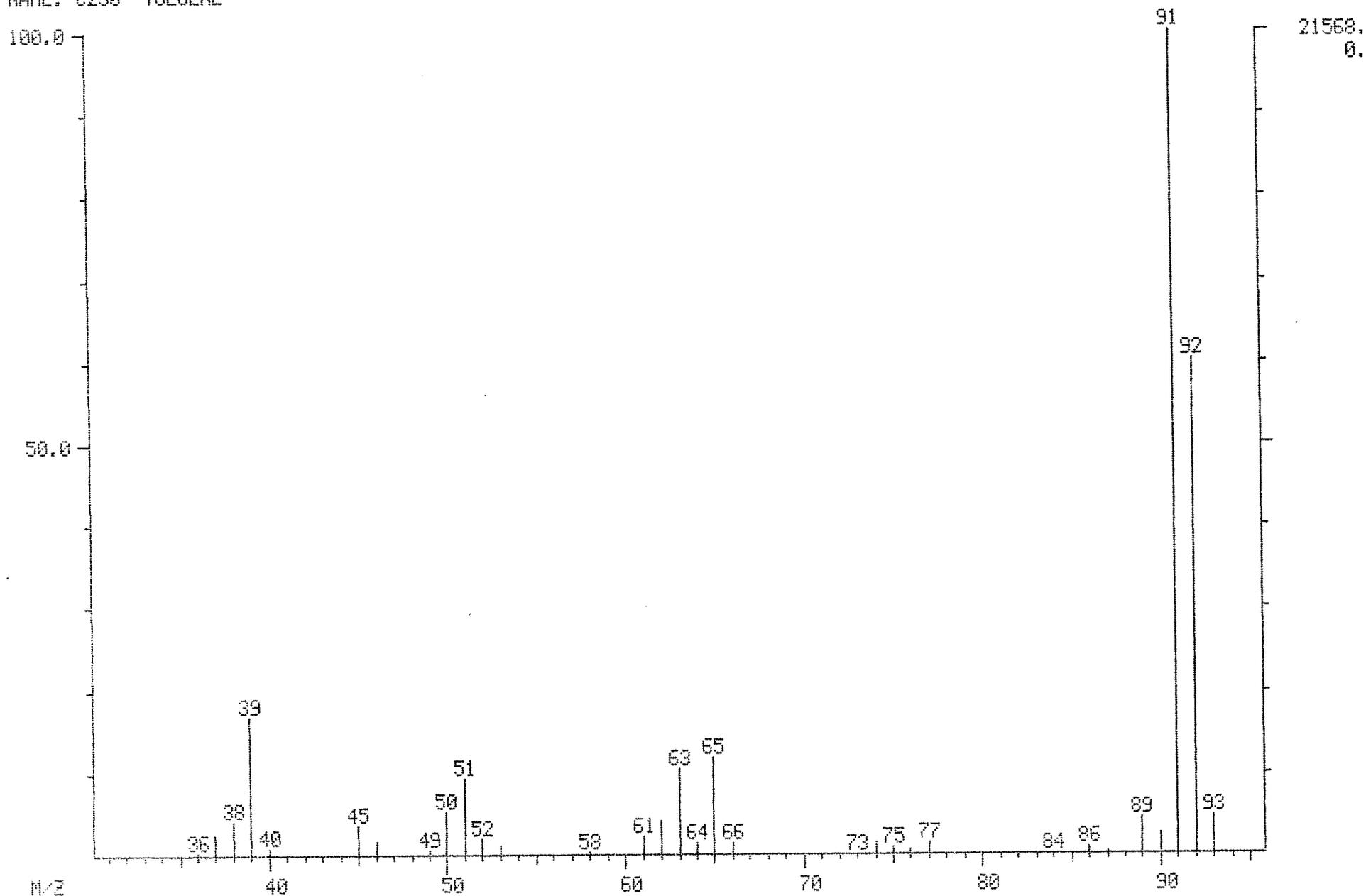
10229

MASS SPECTRUM
08/18/93 10:52:00 + 17:20
SAMPLE: USTD050
CONDS.: I50H
TEMP: -379 DEG. C

DATA: H2302 #1200
ENHANCED (S 15B 2N 0T)

BASE M/Z: 91
RIC: 55488.

NAME: C230 TOLUENE



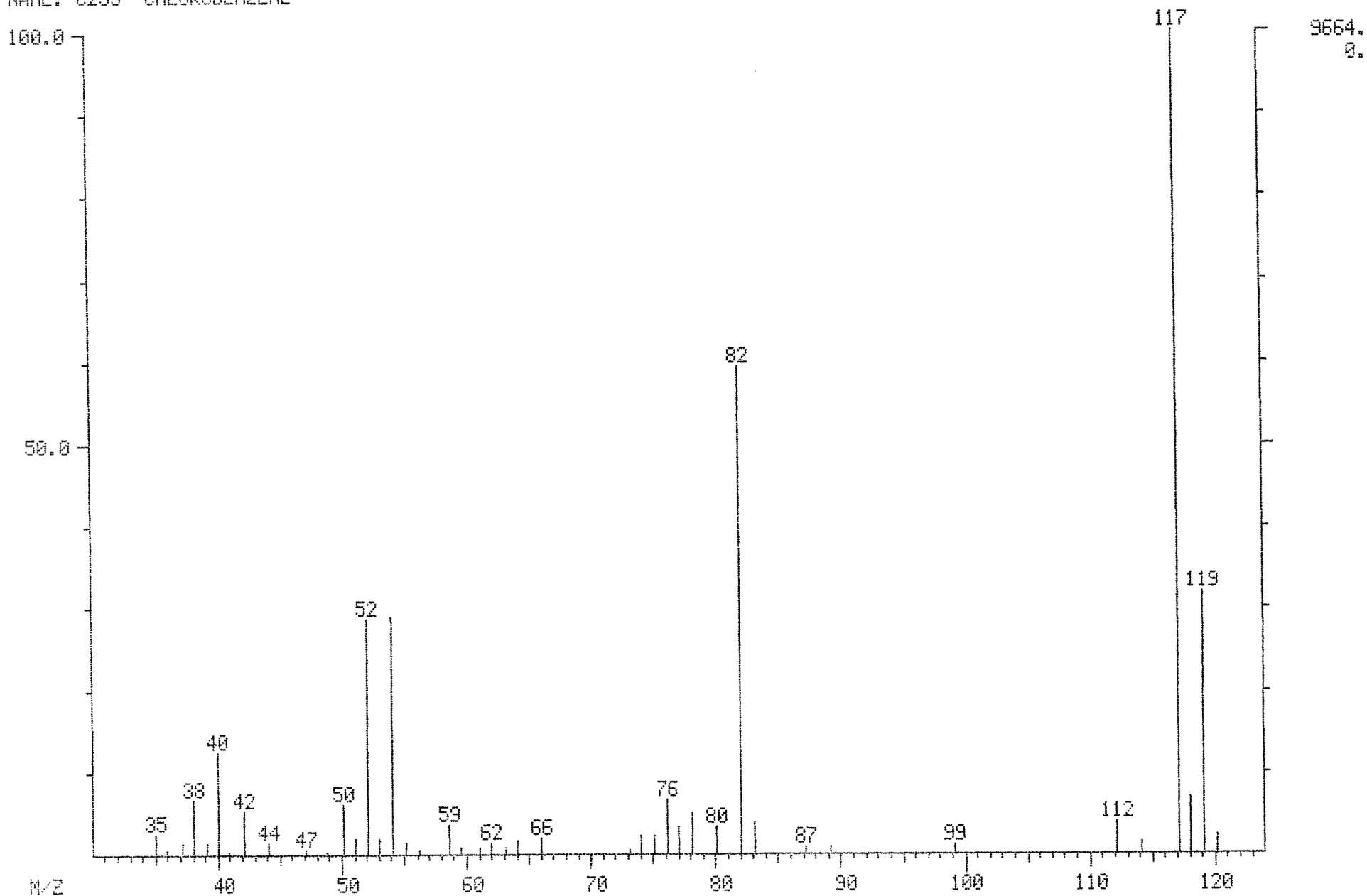
10230

MASS SPECTRUM
08/18/93 13:30:00 + 19:32
SAMPLE: UBLK61
CONDS.: 150H
TEMP: 154 DEG. C

DATA: H2305 #1352
CALI: H2305 #3

BASE M/Z: 117
RIC: 33728.

NAME: C235 CHLOROBENZENE

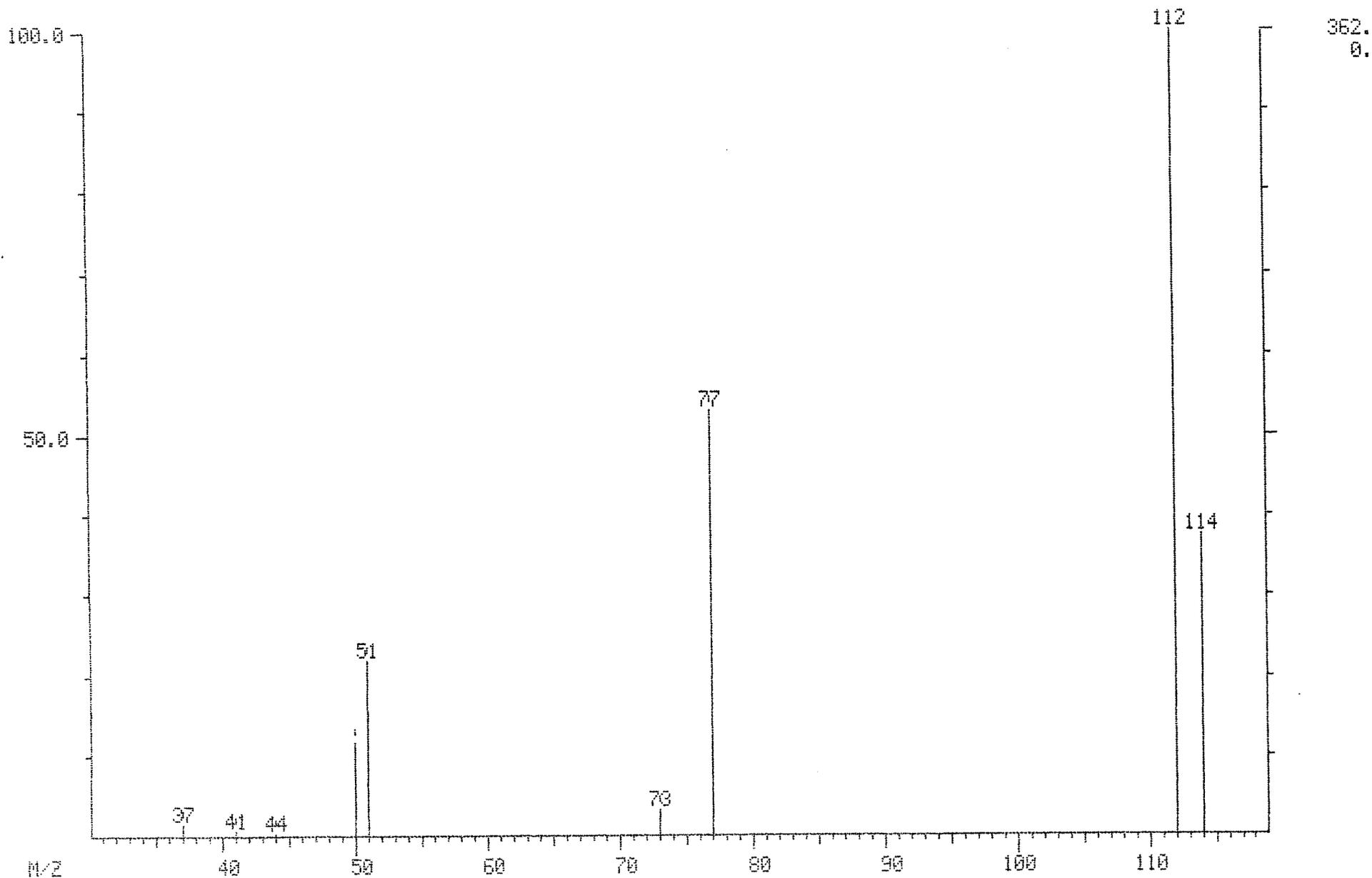


0231

MASS SPECTRUM
08/18/93 13:30:00 + 19:32
SAMPLE: UBLK61
CONDS.: 150H
TEMP: 154 DEG. C
#1352 - #1348NAME: C235 CHLOROBENZENE

DATA: H2305 #1352
CALI: H2305 #3

BASE M/Z: 112
RIC: 830.



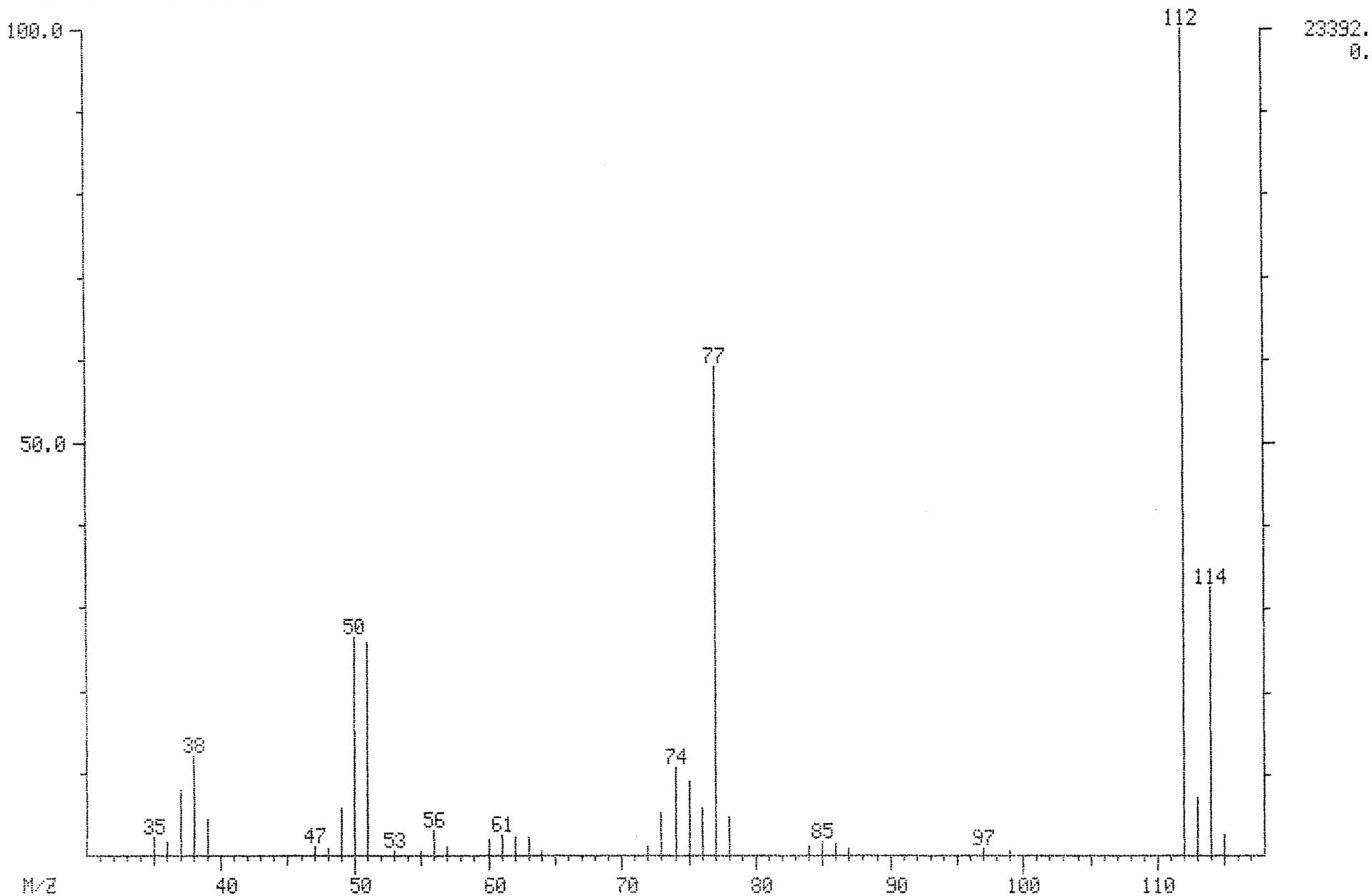
10232

MASS SPECTRUM
08/18/93 10:52:00 + 19:37
SAMPLE: USTD050
CONDS.: I50H
TEMP: -356 DEG. C

DATA: H2302 #1358
ENHANCED (S 15B 2N 0T)

BASE M/Z: 112
RIC: 81280.

NAME: C235 CHLOROBENZENE



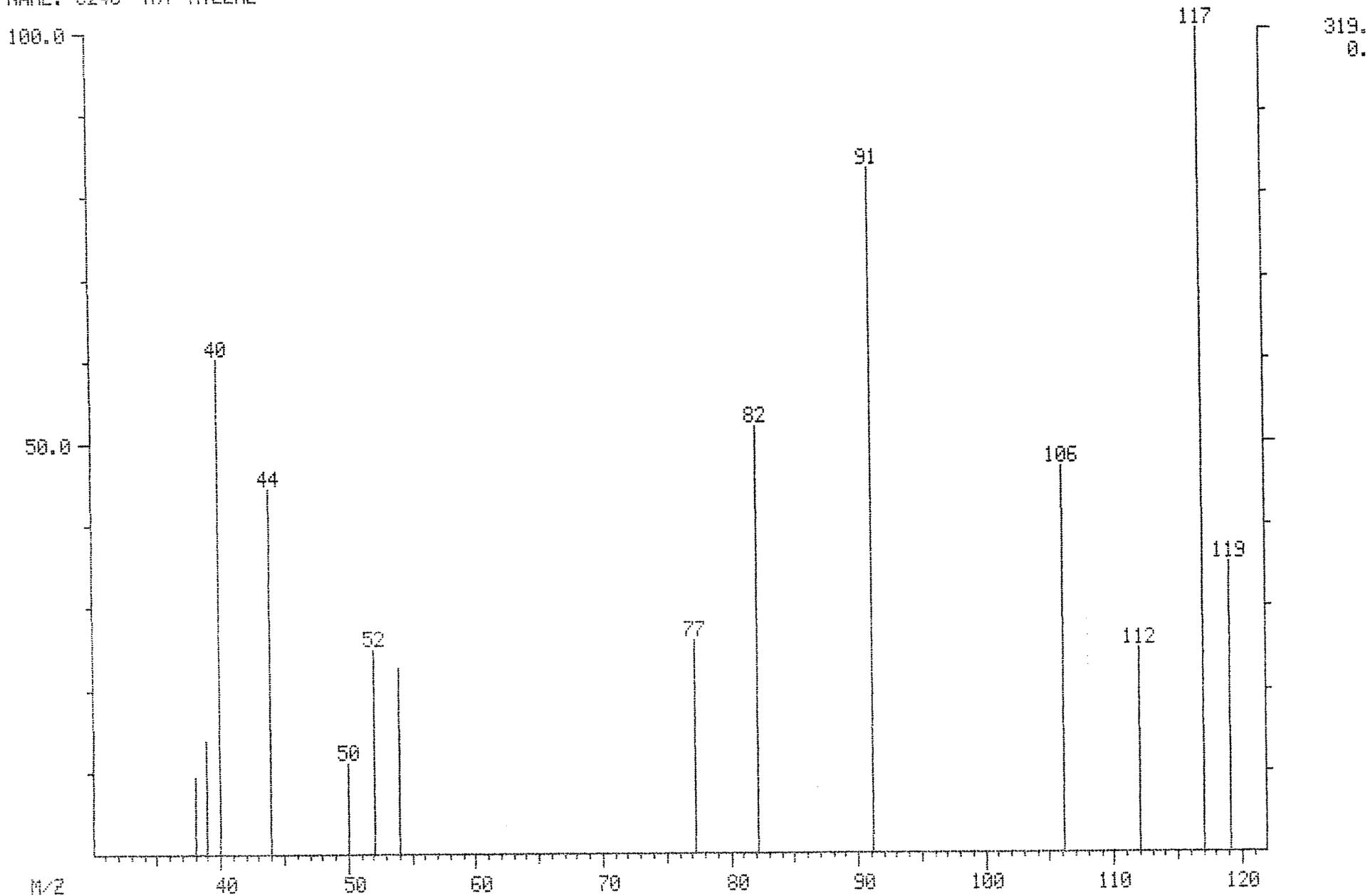
10233

MASS SPECTRUM
08/18/93 13:30:00 + 19:53
SAMPLE: VBLK61
CONDS.: 150H
TEMP: 157 DEG. C

DATA: H2305 #1376
CALI: H2305 #3

BASE M/Z: 117
RIC: 1772.

NAME: C246 M,P-XYLENE

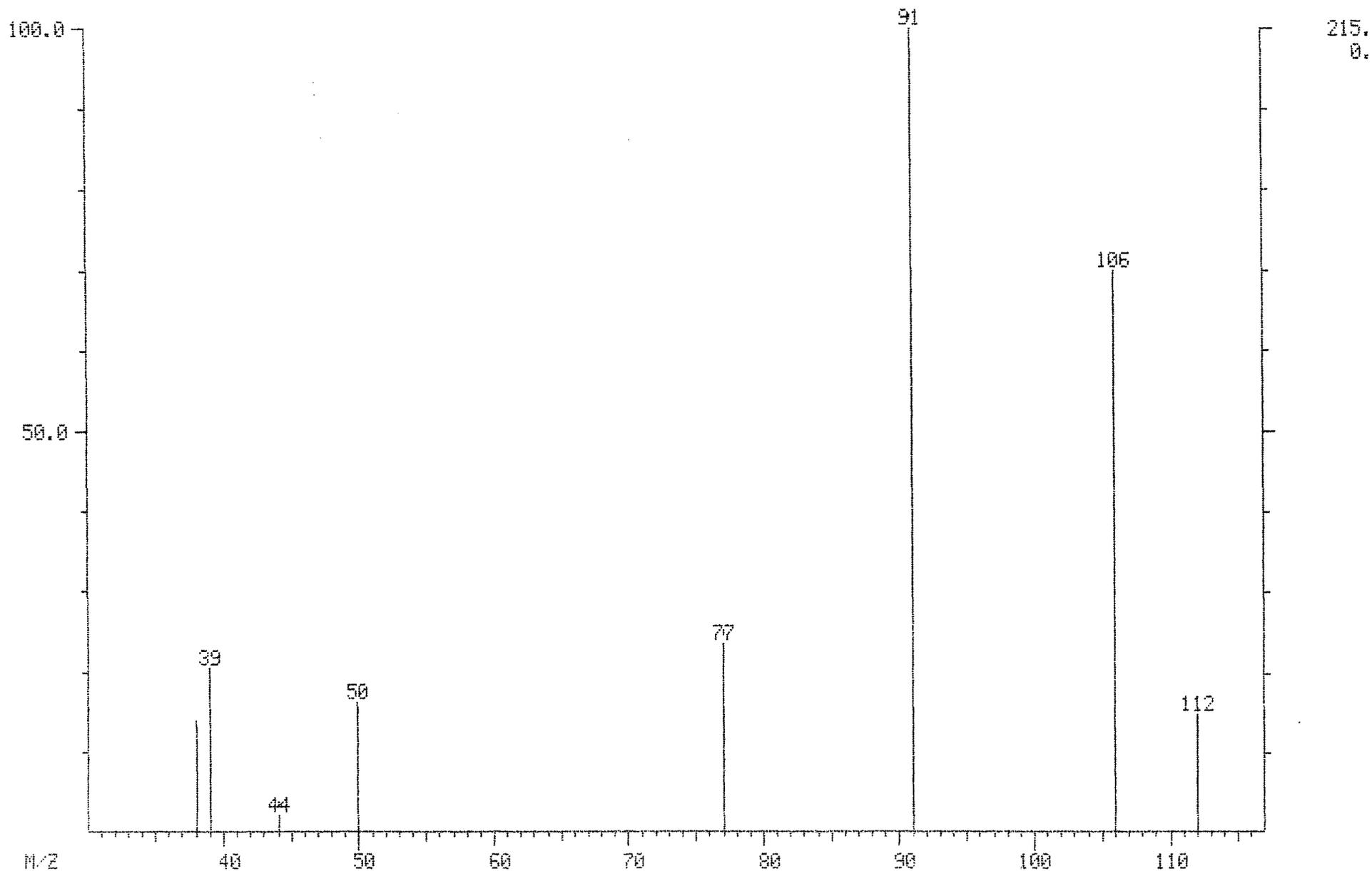


0234

MASS SPECTRUM
08/18/93 13:30:00 + 19:53
SAMPLE: VBLK51
CONDS.: 150H
TEMP: 157 DEG. C
#1376 - #1370NAME: C246 M,P-XYLENE

DATA: H2305 #1376
CALI: H2305 #3

BASE M/Z: 91
RIC: 561.

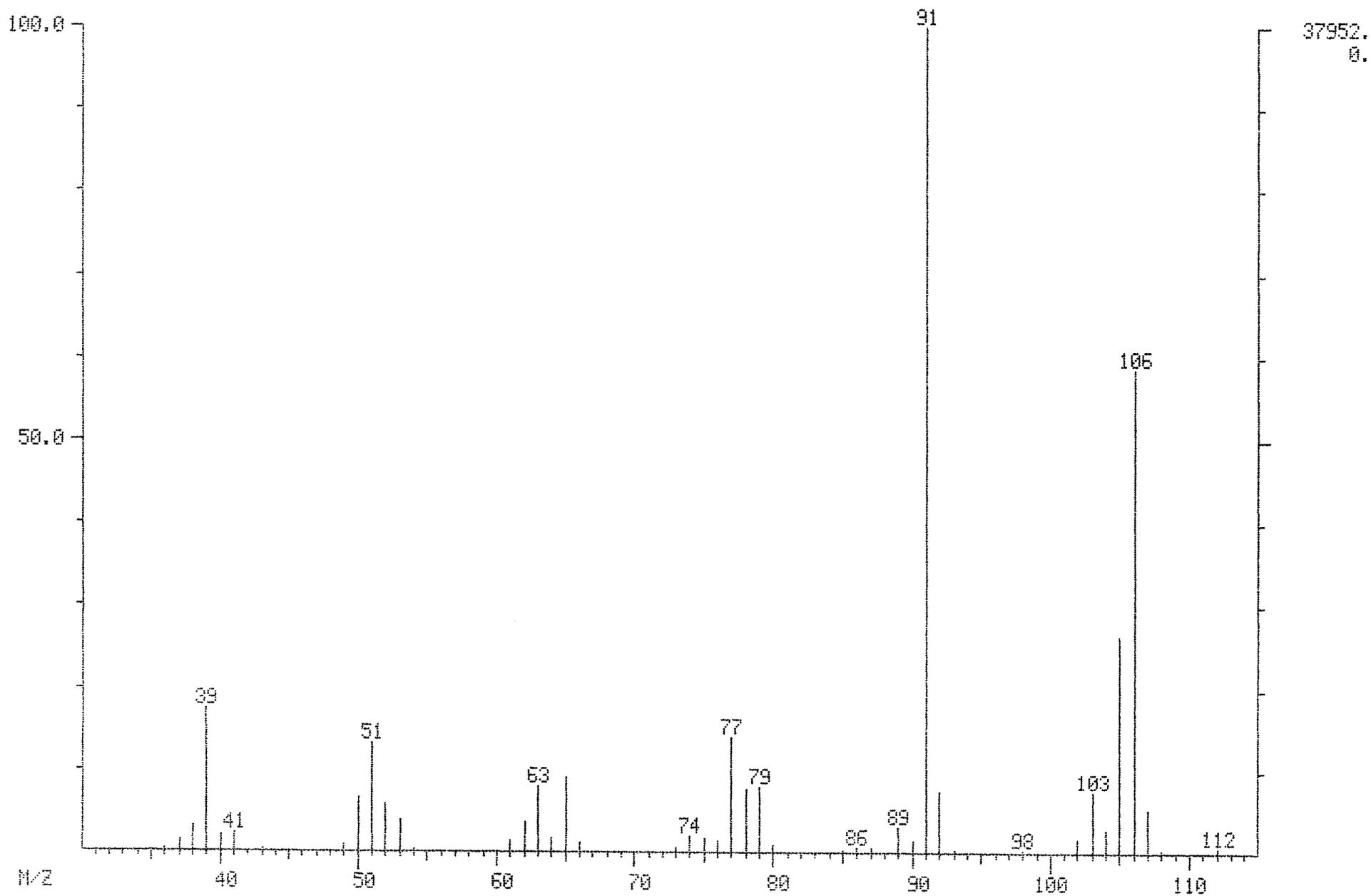


MASS SPECTRUM
08/18/93 10:52:00 + 19:57
SAMPLE: USTD050
CONDS.: I50H
TEMP: -353 DEG. C

DATA: H2302 #1381
ENHANCED (S 15B 2N 0T)

BASE M/Z: 91
RIC: 127360.

NAME: 0246 M.P-XYLENE



10236

Quantitation Report File: H2305

Data: H2305.TI
 08/18/93 13:30:00
 Sample: VBLK61
 Conds.: I50H
 Formula:
 Submitted by:

Instrument: I50H
 Analyst: JVL

Weight: 0.000
 Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
 Resp. fac. from Library Entry

No	CAS #	Name	
1	0-00-0	CI01 BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	0-00-0	CI10 1,4-DIFLUOROBENZENE	*INTERNAL STANDARD*
3	0-00-0	CI20 D5-CHLOROENZENE	*INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	864	12:29	1	1.000	A BB	231413.	250.000 NG	33.33
2	TOT	1006	14:32	2	1.000	A BB	272465.	250.000 NG	33.33
3	TOT	1350	19:31	3	1.000	A BB	326537.	250.000 NG	33.33

$$\begin{aligned}
 & \text{RF}=1.0 \quad \text{DF}=\frac{1}{\quad} \\
 & \text{Unknown Concentration} \\
 & = \left[\frac{\text{ng IS} * \text{area unknown}}{\text{area IS}} \right] * \text{RF} * \text{DF}
 \end{aligned}$$

SEMI-VOLATILE DATA



RECRA
ENVIRONMENTAL
INC.

QC SUMMARY



RECRA
ENVIRONMENTAL
INC.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
01	SP1B	98	79	86	89	86	57	73	92	0
02	SP1SSW	77	74	78	78	86	63	80	73	0
03	SBLK05	59	62	77	62	61	65	60	63	0

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (23-120)
 S2 (FBP) = 2-Fluorobiphenyl (30-115)
 S3 (TPH) = Terphenyl-d14 (18-137)
 S4 (PHL) = Phenol-d5 (24-113)
 S5 (2FP) = 2-Fluorophenol (25-121)
 S6 (TBP) = 2,4,6-Tribromophenol (19-122)
 S7 (2CP) = 2-Chlorophenol-d4 (20-130) (advisory)
 S8 (DCB) = 1,2-Dichlorobenzene-d4 (20-130) (advisory)

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

4B
SEMIVOLATILE METHOD BLANK SUMMARY

SBLK05

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393

Lab File ID: 15335Z Lab Sample ID: AM002971

Instrument ID: I50Z Date Extracted: 08/19/93

Matrix: (soil/water) SOIL Date Analyzed: 08/30/93

Level: (low/med) LOW Time Analyzed: 1029

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	SP1B	AS042456	15337Z	08/30/93
02	SP1SSW	AS042455	15336Z	08/30/93

COMMENTS: SBLK05 JOB2646 SS9241
AUTOSAMPLR I50Z

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393
 Lab File ID: 15303Z DFTPP Injection Date: 08/28/93
 Instrument ID: I50Z DFTPP Injection Time: 2011

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	45.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	46.2
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 1.00% of mass 198	1.24
441	Present, but less than mass 443	7.4
442	40.0 - 110.0% of mass 198	64.7
443	17.0 - 23.0% of mass 442	11.1 (17.2)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	15304Z	08/28/93	2028
02	SSTD020	SSTD020	15305Z	08/28/93	2116
03	SSTD080	SSTD080	15306Z	08/28/93	2204
04	SSTD120	SSTD120	15307Z	08/28/93	2252
05	SSTD160	SSTD160	15308Z	08/28/93	2339

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393
 Lab File ID: 15333Z DFTPP Injection Date: 08/30/93
 Instrument ID: I50Z DFTPP Injection Time: 0903

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	52.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.2
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	22.0
365	Greater than 1.00% of mass 198	1.76
441	Present, but less than mass 443	7.3
442	40.0 - 110.0% of mass 198	65.5
443	17.0 - 23.0% of mass 442	11.8 (18.0)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	15334Z	08/30/93	0921
02	SBLK05	AM002971	15335Z	08/30/93	1029
03	SP1SSW	AS042455	15336Z	08/30/93	1110
04	SP1B	AS042456	15337Z	08/30/93	1157

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393
 Lab File ID (Standard): 15334Z Date Analyzed: 08/30/93
 Instrument ID: I50Z Time Analyzed: 0921

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	11126	8.12	39200	11.74	21202	17.05
UPPER LIMIT	22252	8.62	78400	12.24	42404	17.55
LOWER LIMIT	5563	7.62	19600	11.24	10601	16.55
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 SP1B	8681	8.17	34518	11.74	18258	17.05
02 SP1SSW	8340	8.15	28532	11.72	18124	17.04
03 SBLK05	8316	8.12	28272	11.70	16778	17.04

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393
 Lab File ID (Standard): 15334Z Date Analyzed: 08/30/93
 Instrument ID: I50Z Time Analyzed: 0921

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	31732	21.60	35922	29.82	28575	33.92
UPPER LIMIT	63464	22.10	71844	30.32	57150	34.42
LOWER LIMIT	15866	21.10	17961	29.32	14288	33.42
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 SP1B	32736	21.62	26694	29.81	25692	33.91
02 SP1SSW	32810	21.59	30802	29.81	31122	33.92
03 SBLK05	27300	21.59	20896	29.77	21774	33.87

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SAMPLE DATA



RECRA
ENVIRONMENTAL
INC.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP1B

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393

Matrix: (soil/water) SOIL Lab Sample ID: AS042456

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 15337Z

Level: (low/med) LOW Date Received: 08/17/93

% Moisture: 6 decanted: (Y/N) N Date Extracted: 08/19/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl) Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-Propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)Methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	850	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	850	U
131-11-3	Dimethyl Phthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	850	U
83-32-9	Acenaphthene	350	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SP1B

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393
 Matrix: (soil/water) SOIL Lab Sample ID: AS042456
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 15337Z
 Level: (low/med) LOW Date Received: 08/17/93
 % Moisture: 6 decanted: (Y/N) N Date Extracted: 08/19/93
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 6.6

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	850	U
100-02-7	4-Nitrophenol	850	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	850	U
534-52-1	4,6-Dinitro-2-Methylphenol	850	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	850	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-Butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)Anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	Bis(2-Ethylhexyl) Phthalate	710	
117-84-0	Di-n-Octyl Phthalate	100	J
205-99-2	Benzo(b) Fluoranthene	350	U
207-08-9	Benzo(k) Fluoranthene	350	U
50-32-8	Benzo(a) Pyrene	350	U
193-39-5	Indeno(1,2,3-cd) Pyrene	350	U
53-70-3	Dibenz(a,h) Anthracene	350	U
191-24-2	Benzo(g,h,i) Perylene	350	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SP1B

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393
 Matrix: (soil/water) SOIL Lab Sample ID: AS042456
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 15337Z
 Level: (low/med) LOW Date Received: 08/17/93
 % Moisture: 6 decanted: (Y/N) N Date Extracted: 08/19/93
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 6.6

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

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SATURATED HYDROCARBON	6.48	570	J
2.	UNKNOWN	7.25	540	J
3.	UNKNOWN	7.33	660	J
4.	UNKNOWN	7.82	660	J
5.	UNKNOWN	8.47	1200	J
6.	UNKNOWN	8.67	1200	J
7.	SATURATED HYDROCARBON	8.78	1200	J
8.	UNKNOWN	8.97	380	J
9.	UNKNOWN HYDROCARBON	9.10	840	J
10.	UNKNOWN	9.20	1600	J
11.	UNKNOWN	9.37	1100	J
12.	UNKNOWN	9.63	1300	J
13.	UNKNOWN	9.90	370	J
14.	UNKNOWN	10.13	1100	J
15.	UNKNOWN	10.20	390	J
16.	UNKNOWN	10.40	690	J
17.	UNKNOWN	10.72	1100	J
18.	UNKNOWN HYDROCARBON	20.55	1100	J
19.	UNKNOWN	35.72	4200	J
20.	UNKNOWN	36.03	4100	J

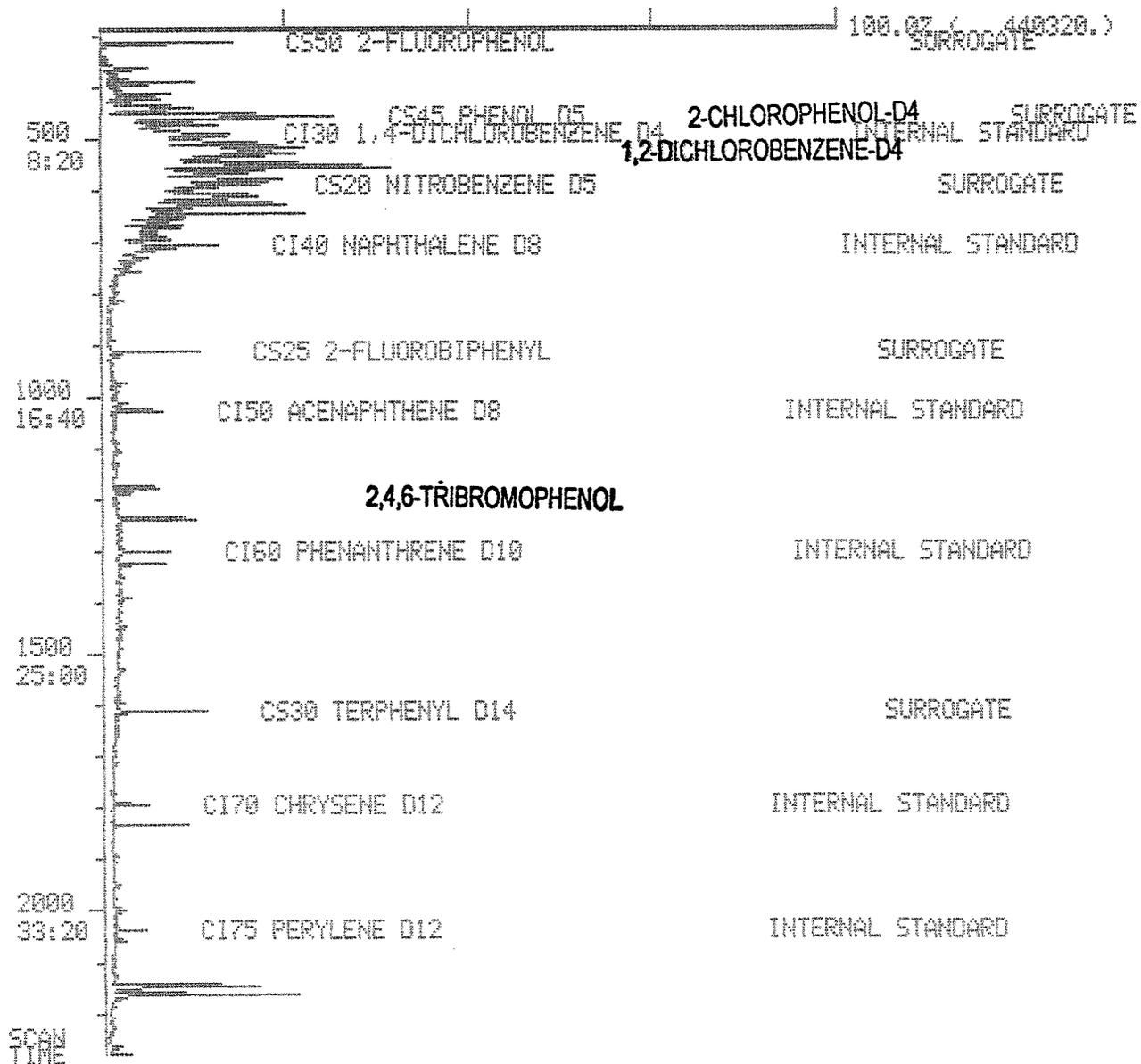
DATA FROM FILE: 15337Z

SCANS 285 TO 2280 ACQUIRED: 08/30/93 11:57:00

CALI: 15337Z #3

SAMPLE: A5042456 JOB2646 S59252

COND5.: AUTOSAMPLR I50Z



10250

Quantitation Report File: 15337Z

Data: 15337Z.TI

08/30/93 11:57:00

Sample: AS042456 JOB2646 SS9252

Conds.: AUTOSAMPLR I50Z

Formula:

Instrument: I50Z

Weight: 0.000

Submitted by:

Analyst: SMW

Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLORO BENZENE D4	INTERNAL STANDARD
2	CI40 NAPHTHALENE D8	INTERNAL STANDARD
3	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
4	CI60 PHENANTHRENE D10	INTERNAL STANDARD
5	CI70 CHRYSENE D12	INTERNAL STANDARD
6	CI75 PERYLENE D12	INTERNAL STANDARD
7	CS75 1,2-DICHLORO BENZENE-D4	SURROGATE
8	CS20 NITRO BENZENE D5	SURROGATE
9	CS25 2-FLUORO BIPHENYL	SURROGATE
10	CS30 TERPHENYL D14	SURROGATE
11	CS45 PHENOL D5	SURROGATE
12	CS50 2-FLUOROPHENOL	SURROGATE
13	CS70 2-CHLOROPHENOL-D4	SURROGATE
14	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE
15	C315 PHENOL	
16	C325 BIS(2-CHLOROETHYL) ETHER	
17	C330 2-CHLOROPHENOL	
18	C335 1,3-DICHLORO BENZENE	
19	C340 1,4-DICHLORO BENZENE	
20	C350 1,2-DICHLORO BENZENE	
21	C355 2-METHYLPHENOL	
22	C360 2,2'-OXYBIS(1-CHLORO PROPANE)	
23	C365 4-METHYLPHENOL	
24	C370 N-NITROSO-DI-N-PROPYLAMINE	
25	C375 HEXACHLOROETHANE	
26	C410 NITRO BENZENE	
27	C415 ISOPHORONE	
28	C420 2-NITROPHENOL	
29	C425 2,4-DIMETHYLPHENOL	
30	C435 BIS(2-CHLOROETHOXY)METHANE	
31	C440 2,4-DICHLOROPHENOL	
32	C445 1,2,4-TRICHLORO BENZENE	
33	C450 NAPHTHALENE	
34	C455 4-CHLOROANILINE	
35	C460 HEXACHLORO BUTADIENE	
36	C465 4-CHLORO-3-METHYLPHENOL	
37	C470 2-METHYLNAPHTHALENE	
38	C510 HEXACHLORO CYCLOPENTADIENE	
39	C515 2,4,6-TRICHLOROPHENOL	
40	C520 2,4,5-TRICHLOROPHENOL	
41	C525 2-CHLORONAPHTHALENE	
42	C530 2-NITROANILINE	
43	C535 DIMETHYL PHTHALATE	
44	C540 ACENAPHTHYLENE	
45	C542 2,6-DINITROTOLUENE	
46	C545 3-NITROANILINE	
47	C550 ACENAPHTHENE	

6/11/16
9/14/93

No Name
48 C555 2,4-DINITROPHENOL
49 C560 4-NITROPHENOL
50 C565 DIBENZOFURAN

No	m/z	Scan	Time	Ref	RRT	Meth	Area (Hght)	Amount	%Tot
1	152	490	8:10	1	1.000	A BV	8651.	40.000	3.64
2	136	704	11:44	2	1.000	A BB	34518.	40.000	3.64
3	164	1023	17:03	3	1.000	A BB	18258.	40.000	3.64
4	188	1297	21:37	4	1.000	A BB	32736.	40.000	3.64
5	240	1788	29:48	5	1.000	A BB	26694.	40.000	3.64
6	264	2034	33:54	6	1.000	A BB	25692.	40.000	3.64
7	152	514	8:34	1	1.049	A VB	18477.	92.274	8.39
8	82	585	9:45	2	0.831	A BB	39419.	98.032	8.91
9	172	910	15:10	3	0.890	A BB	43820.	79.365	7.21
10	244	1608	26:48	5	0.899	A BB	52083.	86.366	7.85
11	99	454	7:34	1	0.927	A BB	57748.	133.131	12.10
12	112	312	5:12	1	0.637	A BB	40458.	128.832	11.71
13	132	457	7:37	1	0.933	A BB	39438.	110.091	10.01
14	330	1171	19:31	3	1.145	A BB	5982.	86.186	7.83
15	NOT FOUND								
16	NOT FOUND								
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	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
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								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

Quantitation Report File: 15337Z

Data: 15337Z.TI

08/30/93 11:57:00

Sample: AS042456 JOB2646 SS9252

Conds.: AUTOSAMPLR I50Z

Formula:

Instrument: I50Z

Weight: 0.000

Submitted by:

Analyst: SMW

Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name
51	C570 2,4-DINITROTOLUENE
52	C580 DIETHYL PHTHALATE
53	C585 4-CHLOROPHENYL PHENYL ETHER
54	C590 FLUORENE
55	C595 4-NITROANILINE
56	C610 4,6-DINITRO-2-METHYL PHENOL
57	C615 N-NITROSODIPHENYLAMINE
58	C625 4-BROMOPHENYL PHENYL ETHER
59	C630 HEXACHLOROBENZENE
60	C635 PENTACHLOROPHENOL
61	C640 PHENANTHRENE
62	C645 ANTHRACENE
63	C647 CARBAZOLE
64	C650 DI-N-BUTYL PHTHALATE
65	C655 FLUORANTHENE
66	C715 PYRENE
67	C720 BUTYLBENZYLPHTHALATE
68	C725 3,3' DICHLOROBENZIDINE
69	C730 BENZO(A)ANTHRACENE
70	C735 CHRYSENE
71	C740 BIS(2-ETHYLHEXYL)PHTHALATE
72	C760 DI-N-OCTYLPHTHALATE
73	C765 BENZO(B)FLUORANTHENE
74	C770 BENZO(K)FLUORANTHENE
75	C775 BENZO(A)PYRENE
76	C780 INDENO(1,2,3-CD)PYRENE
77	C785 DIBENZO(A,H)ANTHRACENE
78	C790 BENZO(G,H,I)PERYLENE
79	C705 N-NITROSODIMETHYLAMINE
80	C320 ANILINE
81	C710 BENZIDINE
82	C345 BENZYL ALCOHOL
83	C430 BENZOIC ACID
84	C620 1,2-DIPHENYLHYDRAZINE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								
58	NOT FOUND								
59	NOT FOUND								

MTM
9/14/93

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
60	NOT FOUND								
61	NOT FOUND								
62	NOT FOUND								
63	NOT FOUND								
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								
67	NOT FOUND								
68	NOT FOUND								
69	NOT FOUND								
70	NOT FOUND								
71	149	1829	30:29	5	1.023	A BB	28332.	40.236 NG	3.66
72	149	1944	32:24	6	0.956	A BB	9135.	5.930 NG	0.54
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								
76	NOT FOUND								
77	NOT FOUND								
78	NOT FOUND								
79	NOT FOUND								
80	NOT FOUND								
81	NOT FOUND								
82	NOT FOUND								
83	NOT FOUND								
84	NOT FOUND								

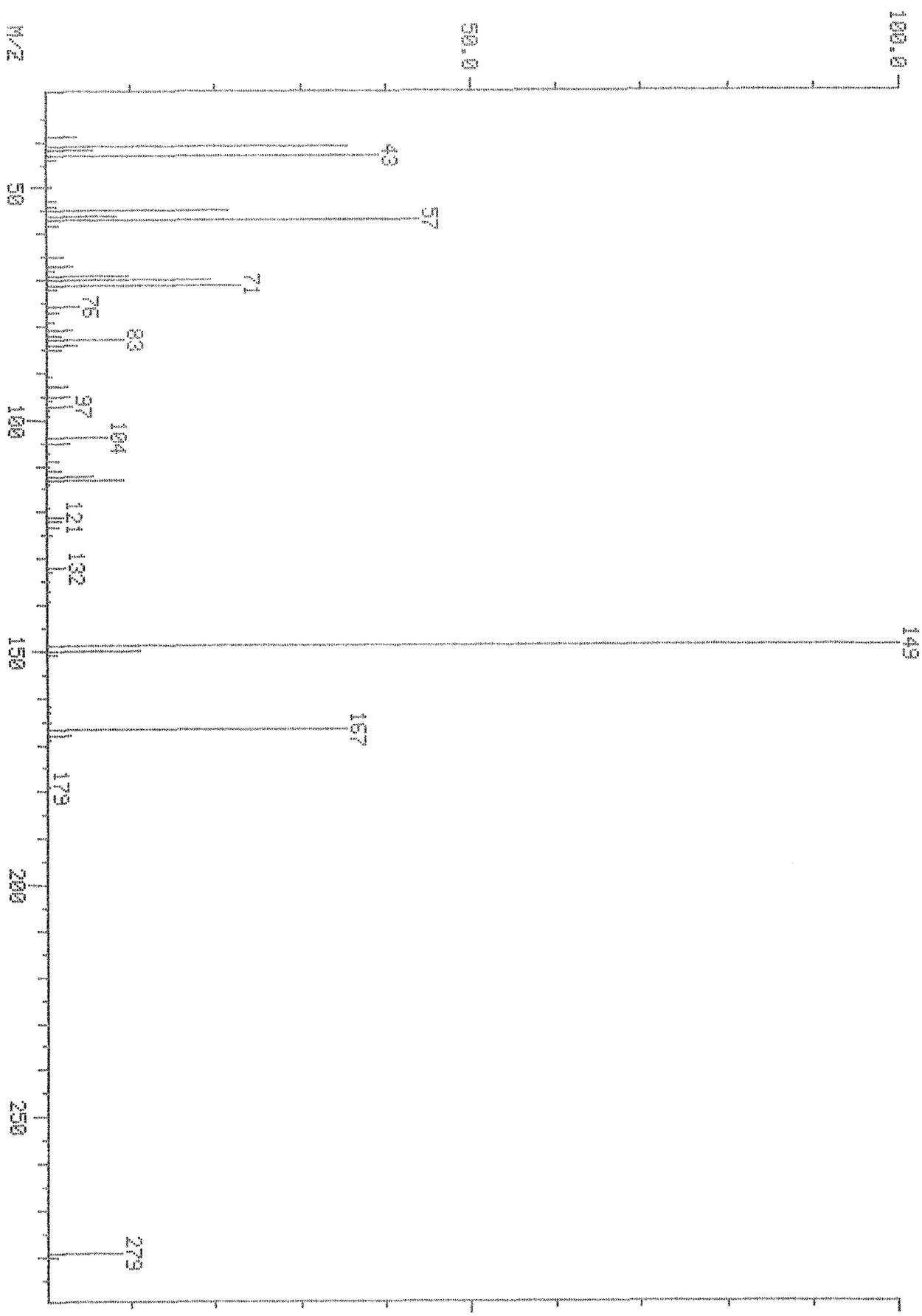
SW
8-30-93.

MTA
9/14/93

MASS SPECTRUM
08/30/99 11:57:00 + 30:29
SAMPLE: A5942456 JOB2646 559252
COND.: AUTOSAMPLER 1502
TEMP: 259 DEG. C
NAME: C740 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: 153372 #1829
CALL: 153372 #3

BASE M/Z: 149
RIC: 51008.



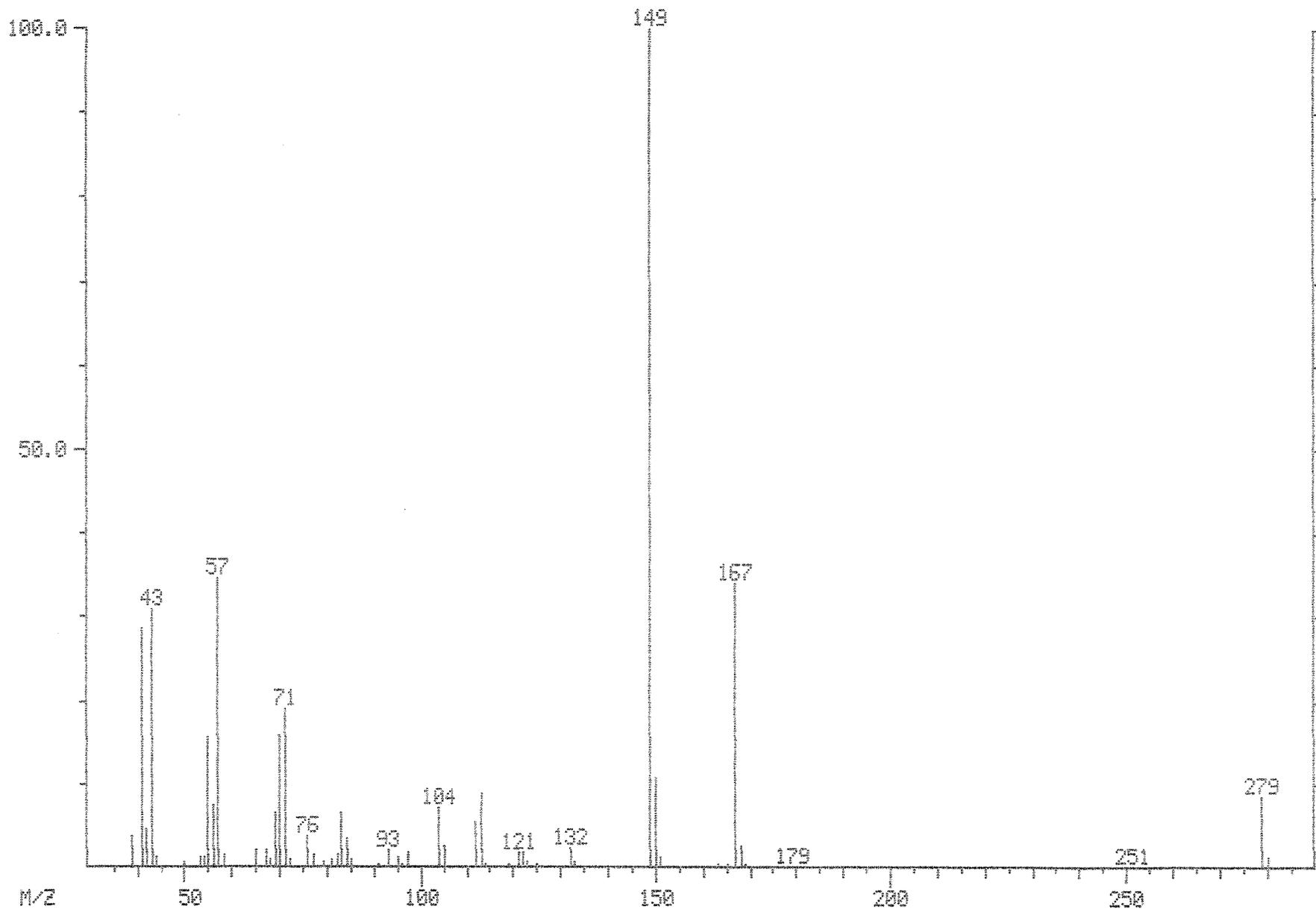
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0255

MASS SPECTRUM
08/30/93 11:57:00 + 30:29
SAMPLE: AS042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 259 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C740 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: 15337Z #1829
CALI: 15337Z #3

BASE M/Z: 149
RIC: 36608.

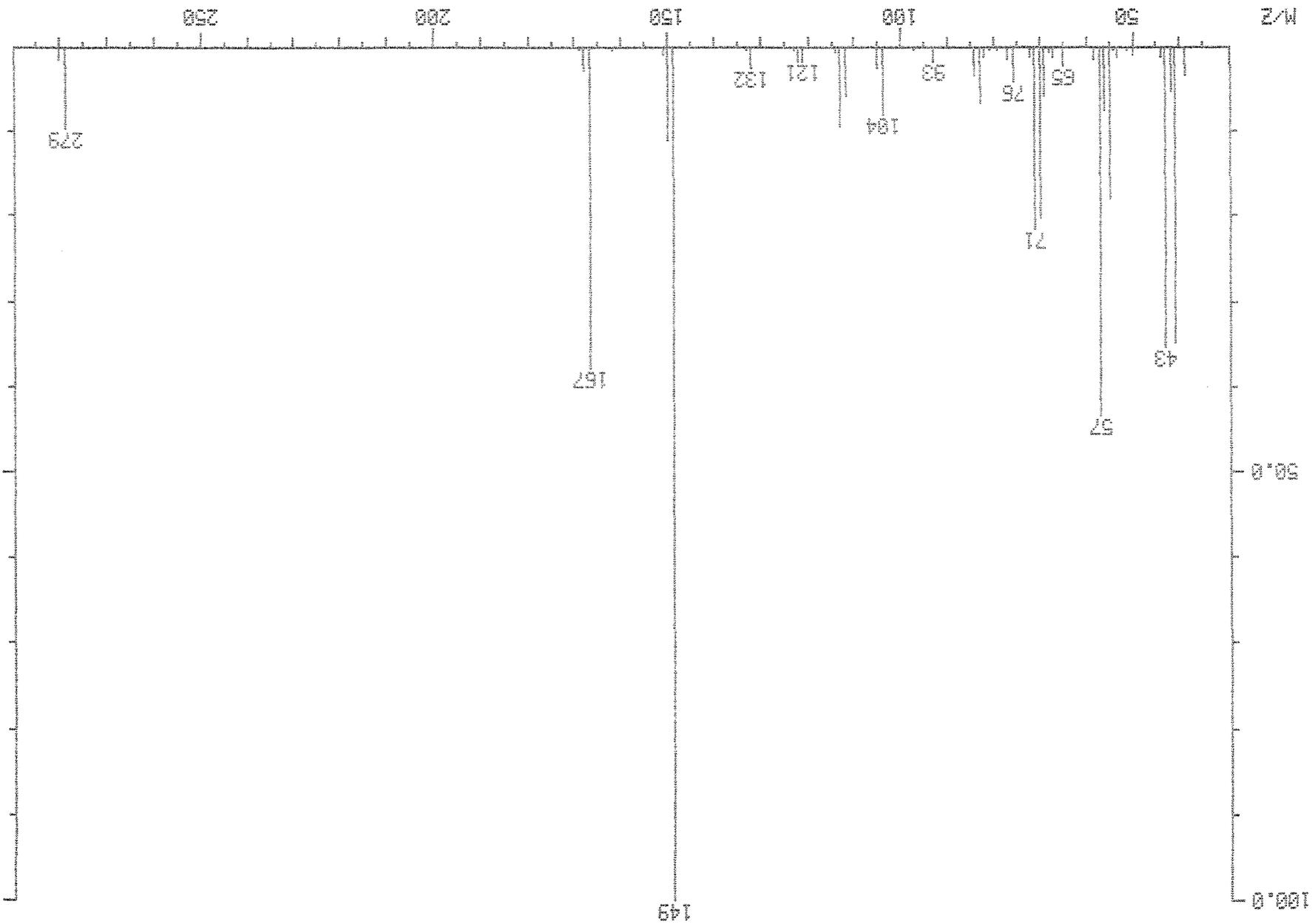


9312.
0.

10256

MASS SPECTRUM
08/30/93 9:21:00 + 30:29
SAMPLE: S5TD050
CONDS.: AUTOSAMPLR 1502
TEMP: -252 DEG. C
NAME: C740 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: 15334Z #1829
ENHANCED (5 15B ZN 0T)
BASE M/Z: 149
RIC: 5715Z



10257

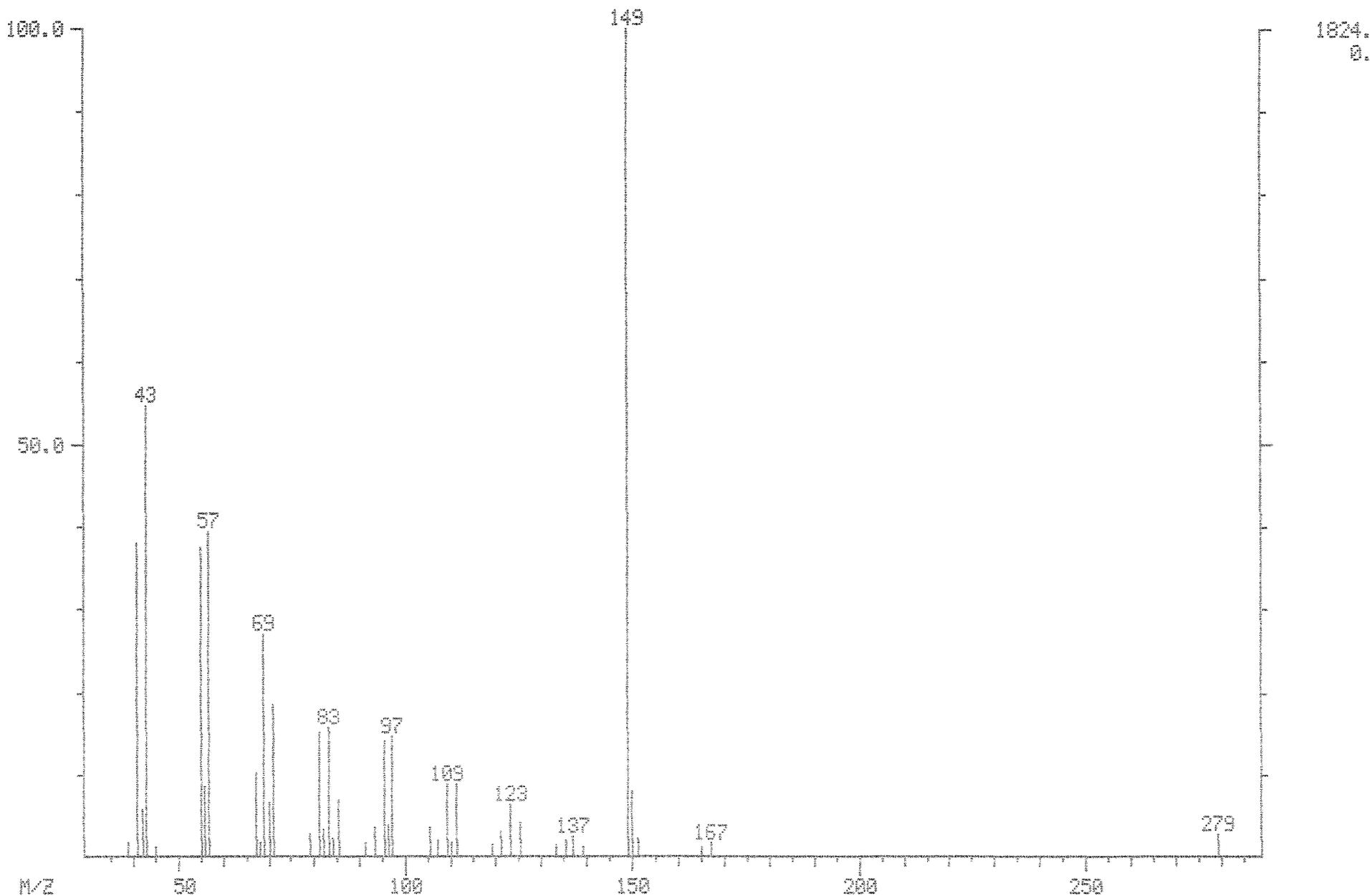
13868

MASS SPECTRUM
08/30/93 11:57:00 + 32:24
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR 1502
TEMP: 274 DEG. C

DATA: 15337Z #1944
CALI: 15337Z #3

BASE M/Z: 149
RIC: 9104.

NAME: C760 DI-N-OCTYLPHTHALATE



10258

MASS SPECTRUM

08/30/93 11:57:00 + 32:24

SAMPLE: AS042456 JOB2646 SS9252

CONDS.: AUTOSAMPLR 150Z

TEMP: 274 DEG. C

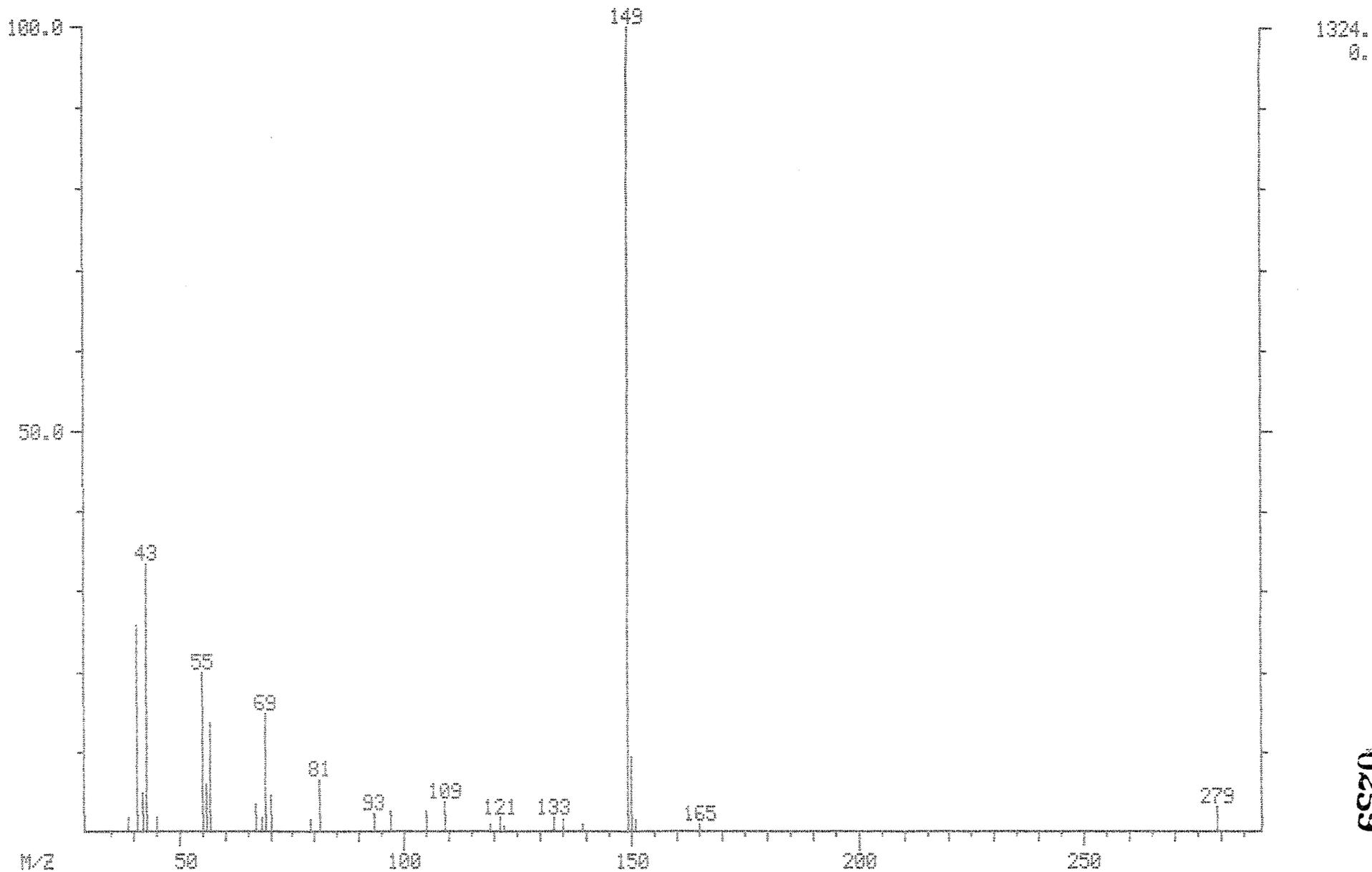
ENHANCED (S 15B 2N 0T)NAME: C760 DI-N-OCTYLPHTHALATE

DATA: 15337Z #1944

CALI: 15337Z #3

BASE M/Z: 149

RIC: 3620.



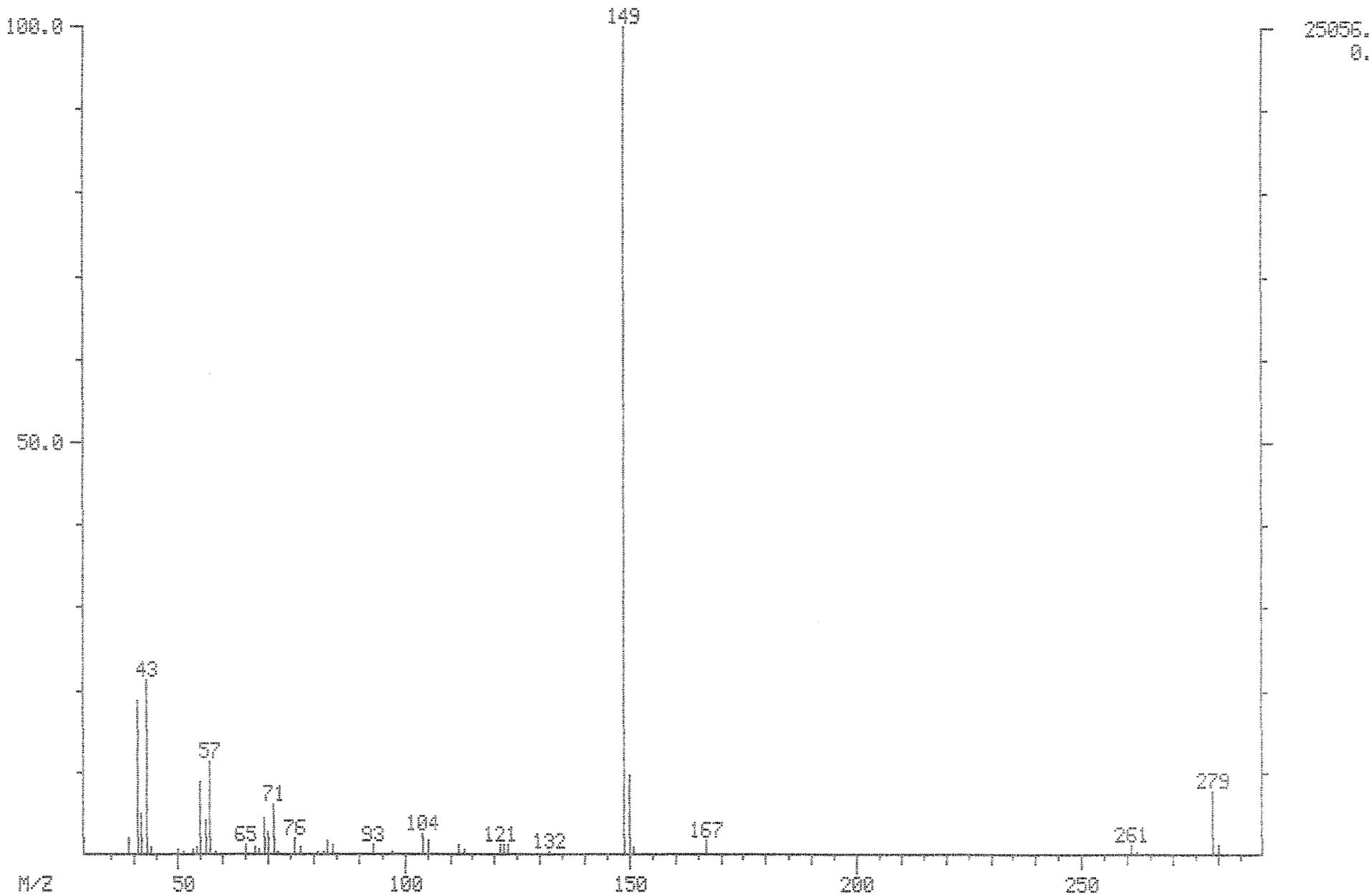
0259

MASS SPECTRUM
08/30/93 9:21:00 + 32:25
SAMPLE: SST0050
CONDS.: AUTOSAMPLR I50Z
TEMP: -237 DEG. C

DATA: 15334Z #1946
ENHANCED (S 15B 2N 0T)

BASE M/Z: 149
RIC: 57408.

NAME: C760 DI-N-OCTYLPHTHALATE



0260

TIC QUANTITATION REPORT: AMOUNTS BASED ON AREA

Quantitation Report File: 15337Z

Data: 15337Z.TI

08/30/93 11:57:00

Sample: AS042456 JOB2646 SS9252

Conds.: AUTOSAMPLR 150Z

Formula:

Instrument: I50Z

Weight: 0.000

Submitted by:

Analyst: SMW

Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	CAS #	Name	INTERNAL STAND
1	0-00-0	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STAND
2	0-00-0	CI40 NAPHTHALENE D8	INTERNAL STAND
3	0-00-0	CI50 ACENAPHTHENE D8	INTERNAL STAND
4	0-00-0	CI60 PHENANTHRENE D10	INTERNAL STAND
5	0-00-0	CI70 CHRYSENE D12	INTERNAL STAND
6	0-00-0	CI75 PERYLENE D12	INTERNAL STAND
7	14676-29-0	HEPTANE, 3-ETHYL-2-METHYL-	
8	32669-86-6	CYCLOHEXANE, CYCLOPROPYL-	
9	27522-11-8	1-PENTANOL, 2-ETHYL-	
10	590-66-9	CYCLOHEXANE, 1,1-DIMETHYL-	
11	51652-47-2	5-DECEN-1-OL, (Z)-	
12	597-45-5	PENTANE, 2,4-DIMETHYL-2-NITRO-	
13	597-45-5	PENTANE, 2,4-DIMETHYL-2-NITRO-	
14	28980-73-6	3,5-OCTADIENE, 2,7-DIMETHYL-, (Z,Z)-	
15	54004-41-0	1-PENTANOL, 4-METHYL-2-PROPYL-	
16	921-47-1	HEXANE, 2,3,4-TRIMETHYL-	
17	74421-09-3	CYCLOPENTANE, 1,1,3-TRIMETHYL-3-(2-METHYL-2-PROPENYL)-	
18	13475-78-0	HEPTANE, 5-ETHYL-2-METHYL-	
19	68701-61-1	1,6-HEPTADIENE, 3,3-DIMETHYL-	
20	68681-72-8	2-METHYL-1,5-HEPTADIENE (C,T)	
21	74421-19-5	HEXANE, 1-(HEXYLOXY)-5-METHYL-	
22	493-02-7	NAPHTHALENE, DECAHYDRO-, TRANS-	
23	1653-40-3	1-HEPTANOL, 6-METHYL-	
24	3404-72-6	1-PENTENE, 2,3-DIMETHYL-	
25	63830-67-1	4-NONENE, 2,3,3-TRIMETHYL-, (E)-	
26	590-66-9	CYCLOHEXANE, 1,1-DIMETHYL-	
27	61142-37-8	CYCLOHEXANE, (1,2-DIMETHYLBUTYL)-	
28	7440-37-1	ARGON	
29	51652-47-2	5-DECEN-1-OL, (Z)-	
30	7575-82-8	TRICYCLO[3.3.1.1 ^{3,7}]DECANE, 1-NITRO-	
31	765-13-9	1-PENTADECYNE	
32	702-79-4	ADAMANTANE, 1,3-DIMETHYL-	
33	473-55-2	BICYCLO[3.1.1]HEPTANE, 2,6,6-TRIMETHYL-	
34	13151-99-0	CYCLOOCTANE, 1,4-DIMETHYL-, CIS-	
35	54410-98-9	1-NONENE, 4,6,8-TRIMETHYL-	
36	999-64-4	3-BROMOOCTANE	
37	96-08-2	7-OXABICYCLO[4.1.0]HEPTANE, 1-METHYL-4-(2-METHYLOXIRAN	
38	65-53-6	COPROSTAN-3-ONE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	490	8:10	1	1.000	A VV	207920.	40.000 NG	1.97
2	TOT	704	11:44	2	1.000	A BV	261728.	40.000 NG	1.97
3	TOT	1023	17:03	3	1.000	A VB	87762.	40.000 NG	1.97
4	TOT	1297	21:37	4	1.000	A BB	99632.	40.000 NG	1.97
5	TOT	1788	29:48	5	1.000	A BB	64504.	40.000 NG	1.97

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
6	TOT	2034	33:54	6	1.000	A BB	67704.	40.000 NG	1.97
7	TOT	389	6:29	1	0.794	A BB	167832.	32.288	1.59
8	TOT	435	7:15	1	0.888	A VV	159026.	30.594	1.51
9	TOT	440	7:20	1	0.898	A VB	195378.	37.587	1.85
10	TOT	469	7:49	1	0.957	A BB	195424.	37.596	1.85
11	TOT	486	8:06	1	0.992	A VV	107904.	20.759 sw	1.02
12	TOT	484	8:06	1	0.992	A VV	107904.	20.759 sw	1.02
13	TOT	490	8:16	1	1.000	A VV	168896.	32.492 sw	1.60
14	TOT	497	8:17	1	1.014	A VV	55680.	10.712 sw	0.53
15	TOT	508	8:28	1	1.037	A BB	363392.	69.910	3.45
16	TOT	520	8:40	1	1.061	A VV	347008.	66.758	3.29
17	TOT	520	8:40	1	1.061	A VV	347008.	66.758 sw	3.29
18	TOT	527	8:47	1	1.076	A VB	354560.	68.211	3.36
19	TOT	527	8:47	1	1.076	A VB	354560.	68.211 sw	3.36
20	TOT	538	8:58	1	1.098	A BV	112896.	21.719	1.07
21	TOT	546	9:06	1	1.114	A VV	247680.	47.649	2.35
22	TOT	552	9:12	1	1.127	A VB	459776.	88.453	4.36
23	TOT	562	9:22	1	1.147	A BB	321088.	61.771	3.04
24	TOT	578	9:38	1	1.180	A BV	371456.	71.461	3.52
25	TOT	578	9:38	1	1.180	A BV	372116.	71.588 sw	3.53
26	TOT	585	9:45	1	1.194	A VV	312640.	60.148 sw	2.96
27	TOT	594	9:54	1	1.212	A BB	107520.	20.685 sw	1.02
28	TOT	594	9:54	1	1.212	A BB	107520.	20.685 sw	1.02
29	TOT	608	10:08	2	0.864	A BV	393408.	60.125	2.96
30	TOT	612	10:12	2	0.869	A VB	142720.	21.812	1.07
31	TOT	624	10:24	2	0.886	A BV	255488.	39.046	1.92
32	TOT	630	10:30	2	0.895	A VB	106784.	16.320 sw	0.80
33	TOT	643	10:43	2	0.913	A BV	423328.	64.697	3.19
34	TOT	650	10:50	2	0.923	A VV	80416.	12.290 sw	0.61
35	TOT	667	11:07	2	0.947	A BV	112144.	17.139 sw	0.84
36	TOT	1233	20:33	4	0.951	A BB	155744.	62.528	3.08
37	TOT	2143	35:43	6	1.054	A BB	403528.	238.407	11.75
38	TOT	2162	36:02	6	1.063	A BV	389160.	229.918	11.33

35

20 TIC Rec.
x5

20 TIC Rec.

Duplicate entry

Duplicate entry

Duplicate entry

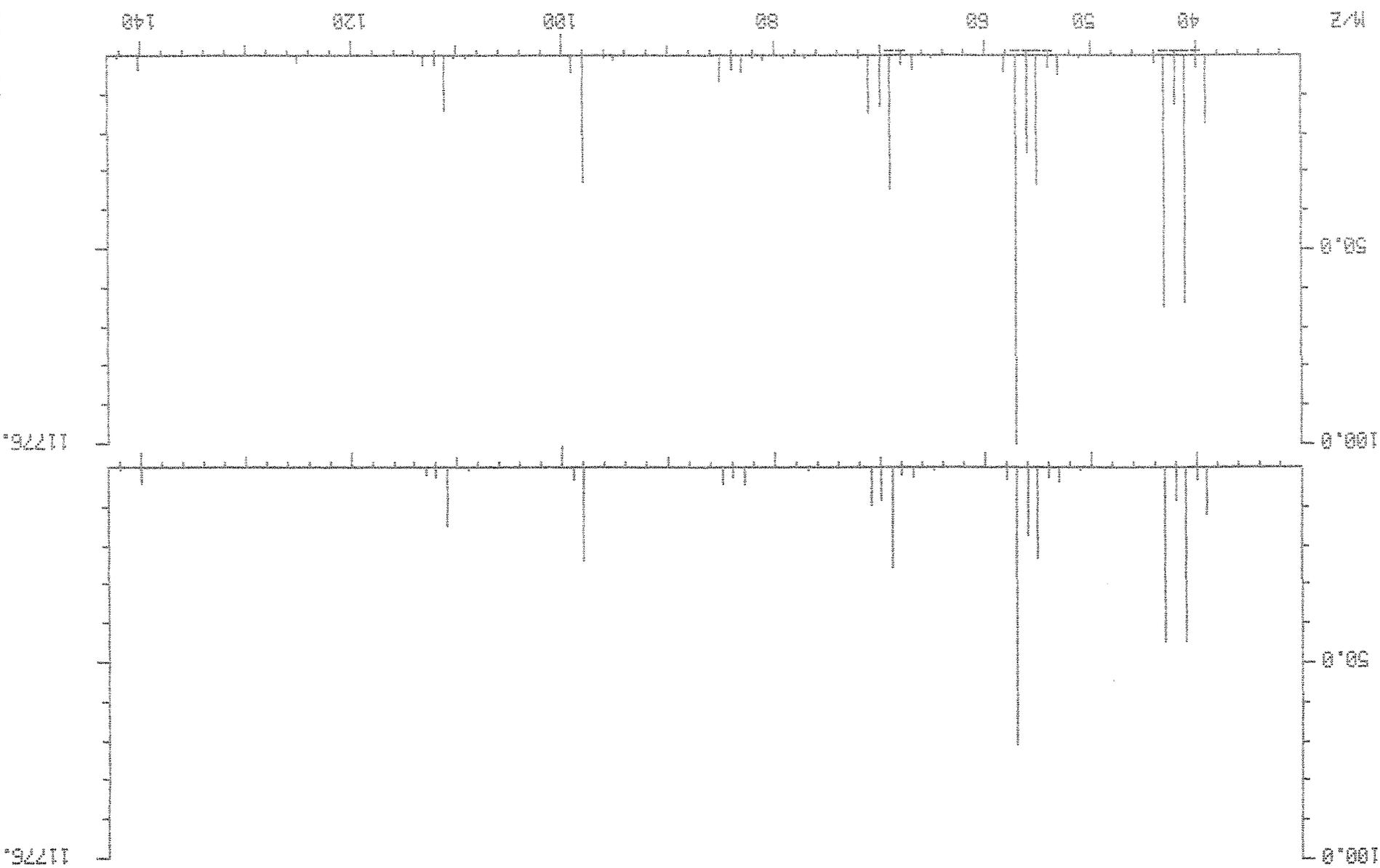
Duplicate entry

OK 2/14/93

20 TIC Rec.

SW
8-30-13.

0263
09201



DUAL MASS SPECTRUM
08/30/93 11:57:00 + 6:29
SAMPLE: A5042456 JOB2646 559252
COMDS.: AUTOSAMPLR 150Z
TEMP: 67 DEG. C
ENHANCED (S 158 ZN 01)
DATA: 15337Z #389
CALI: 15337Z #3
BASE M/Z: 57 / 57
RIC: 40320. / 57344.

Library Search Data: 15337Z # 389 Base m/z: 57
 08/30/93 11:57:00 + 6:29 Cali: 15337Z # 3 RIC: 39872.
 Sample: A5042456 JOB2646 S59252
 Conds.: AUTOSAMPLR 150Z
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
 260 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name
1	8076 HEPTANE, 3-ETHYL-2-METHYL-
2	1362 (E)-3-METHYL-2-HEXENE
3	8081 OCTANE, 2,3-DIMETHYL-
4	8080 HEPTANE, 4-(1-METHYLETHYL)-
5	8075 HEPTANE, 4-PROPYL-

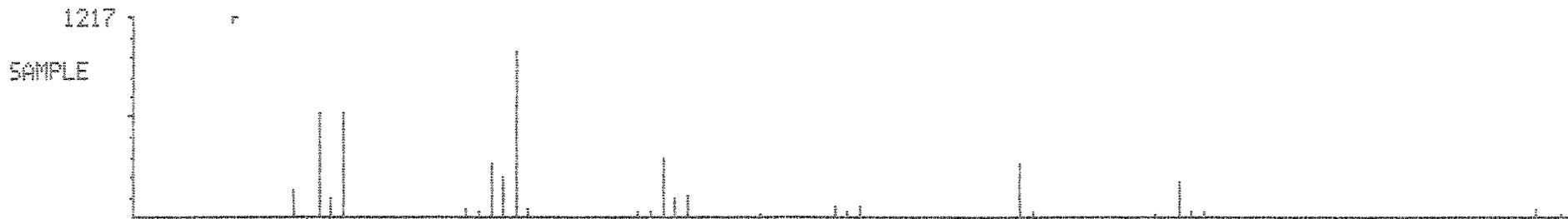
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C10. H22	142	57	801	970	801
2	C7. H14	98	69	473	947	479
3	C10. H22	142	57	765	943	766
4	C10. H22	142	57	765	942	765
5	C10. H22	142	57	757	938	757

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	-----	-----	-----	-----	14676-29-0
2	-----	-----	-----	-----	20710-38-7
3	-----	-----	-----	-----	7146-60-3
4	-----	-----	-----	-----	52896-87-4
5	-----	-----	-----	-----	3178-29-8

MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 6:29
SAMPLE: AS042456 JOB2646 S59252
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 15B 2M 0T)

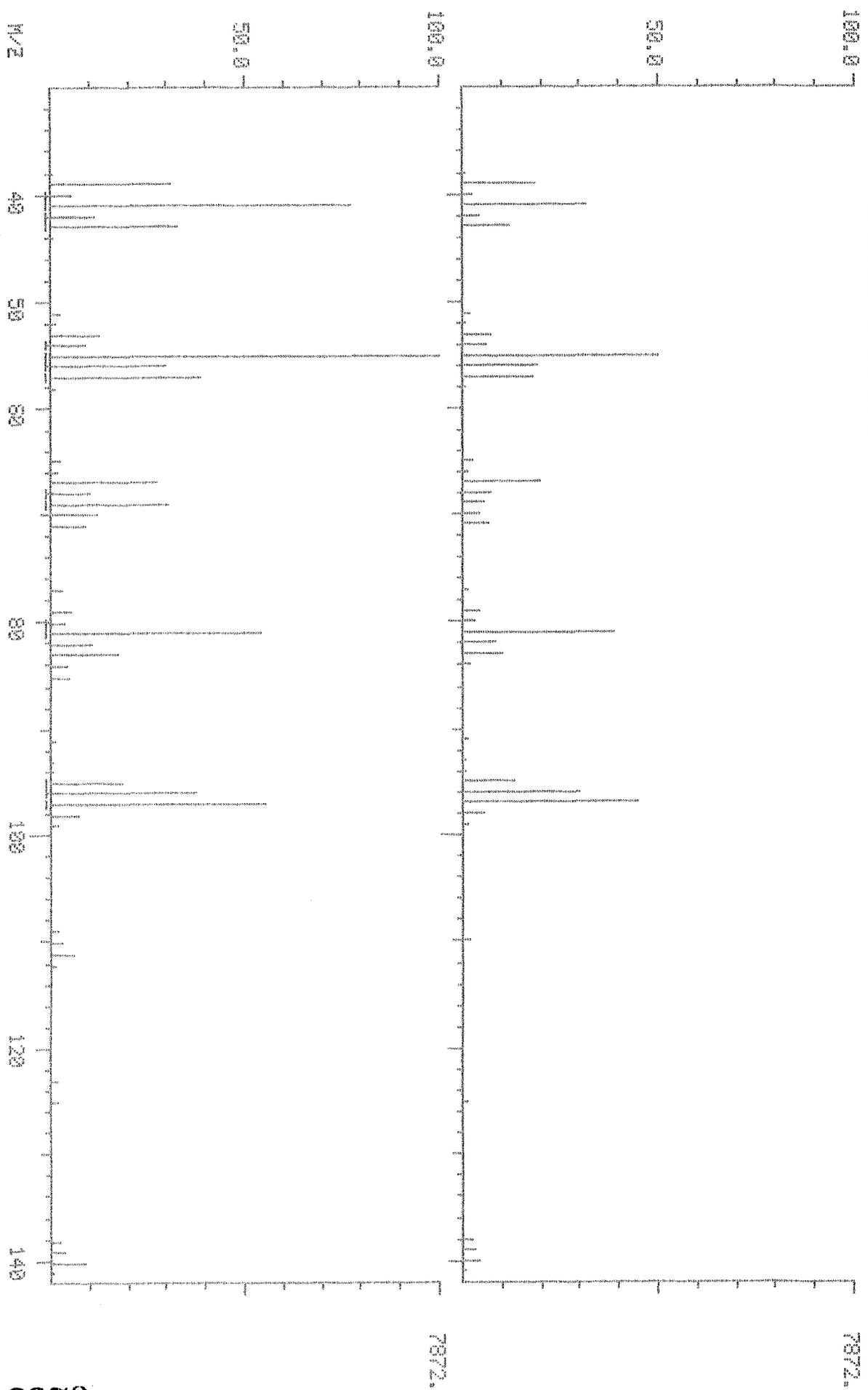
DATA: 15337Z # 389
CALI: 15337Z # 3

BASE M/2: 57
RIC: 39872.



DUAL MASS SPECTRUM
08/30/93 11:57:00 + 7:15
SAMPLE: A5042456 JOB2646 559252
COND5.: AUTOSAMPLR 150Z
TEMP: 73 DEG. C
ENHANCED (S 1SB 2N 0T)

DATA: 15337Z #435
CALL: 15337Z #3
BASE M/Z: 55/
RIC: 31008./ 55424.



0266

Library Search Data: 15337Z # 435 Base m/z: 55
08/30/93 11:57:00 + 7:15 Call: 15337Z # 3 RIC: 30272

Sample: A5042456 J082646 559292
Conds.: AUTOSAMPLR 150Z
Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYB searched for maximum FIT
63 matched at least 8 of the 16 largest peaks in the unknown

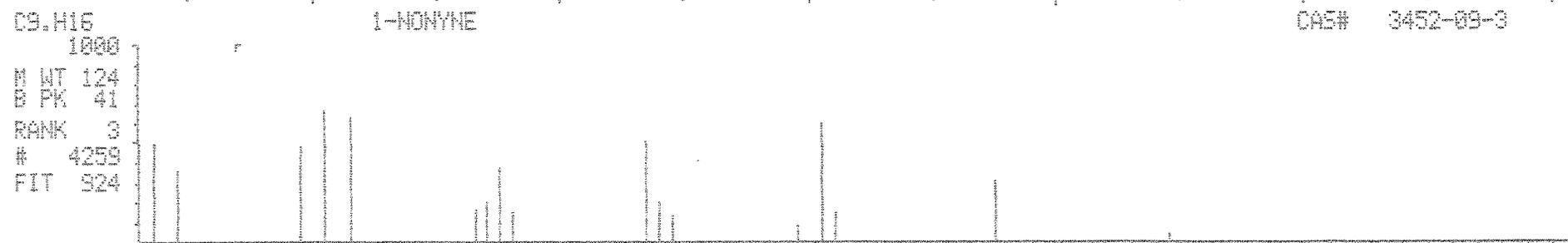
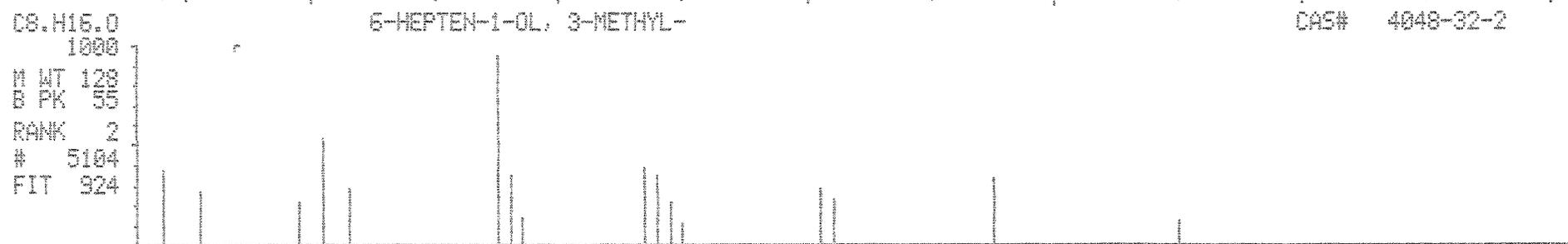
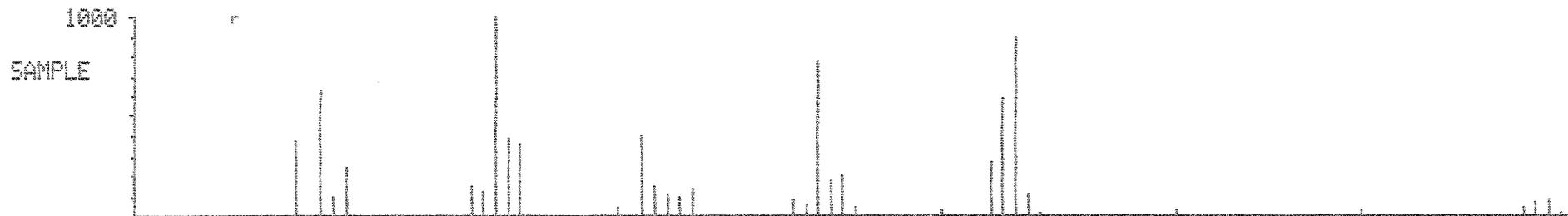
Rank In.	Name	Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	4252 CYCLOHEXANE, CYCLOPROPYL-	1	C9.H16	124	55	554	930	560
2	5104 6-HEPTEN-1-OL, 3-METHYL-	2	C8.H16.O	128	55	508	924	508
3	4259 1-NONANE	3	C9.H16	124	41	492	924	499
4	5120 CYCLOHEPTANEMETHANOL	4	C8.H16.O	128	55	713	907	713
5	17943 1,1'-BICYCLOHEXYL, 2-METHYL-, TRANS-	5	C13.H24	180	97	694	907	729

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	_____	_____	_____	_____	32669-86-6
2	_____	_____	_____	_____	4048-32-2
3	_____	_____	_____	_____	3452-09-3
4	_____	_____	_____	_____	4448-75-3
5	_____	_____	_____	_____	50991-09-8

MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 7:15
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 435
CALI: 15337Z # 3

BASE M/Z: 55
RIC: 30272.



M/Z 40 60 80 100 120 140

Library Search Data: 15337Z # 440 Base m/z: 69
 08/30/93 11:57:00 + 7:20 Call: 15337Z # 3 RIC: 26144.
 Sample: A5042456 J052646 559252
 Cond.: AUTOSAMPLR 150Z
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYB searched for maximum FIT
 226 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name	Rank	Formula
1	3347 1-PENTANOL, 2-ETHYL-	1	C7.H16.O
2	5507 ISOOCTANOL	2	C8.H18.O
3	9258 HEXANE, 2-CHLORO-2,5-DIMETHYL-	3	C8.H17.CL
4	5540 1-HEPTANOL, 6-METHYL-	4	C8.H18.O
5	2726 PENTANE, 2-CYCLOPROPYL-	5	C8.H16

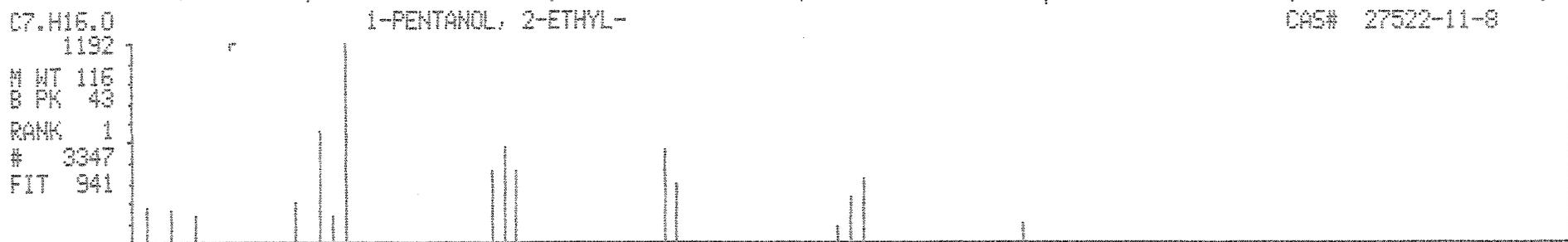
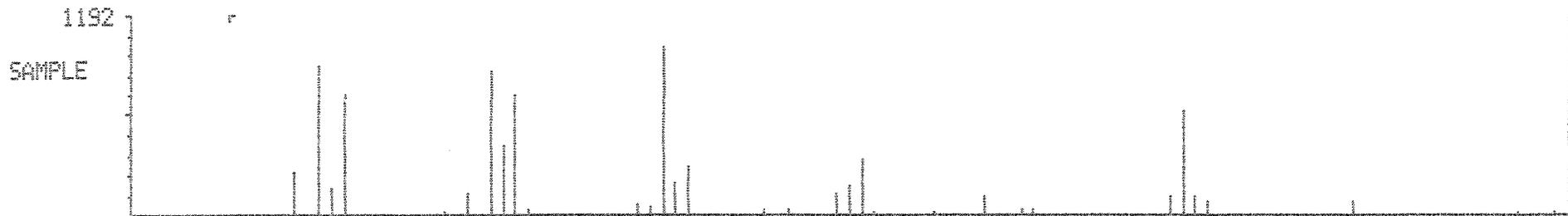
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H16.O	116	43	619	941	619
2	C8.H18.O	130	43	617	917	630
3	C8.H17.CL	148	69	595	912	614
4	C8.H18.O	130	41	631	910	645
5	C8.H16	112	56	525	906	532

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	---	---	---	---	27522-11-8
2	---	---	---	---	26952-21-6
3	---	---	---	---	29342-44-7
4	---	---	---	---	1653-40-3
5	---	---	---	---	5458-16-2

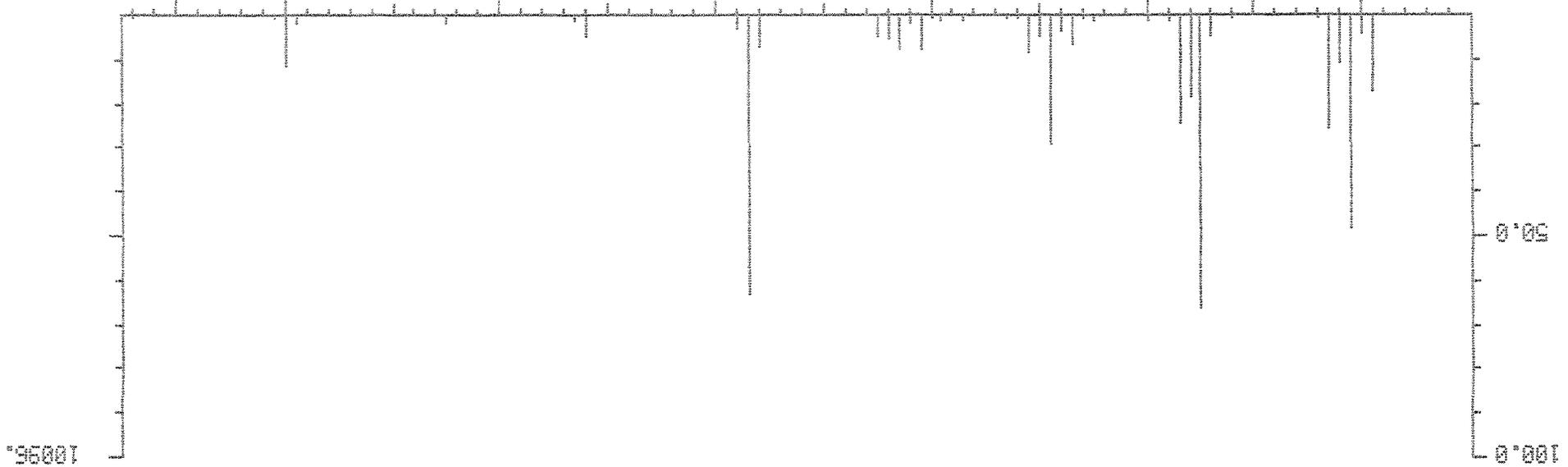
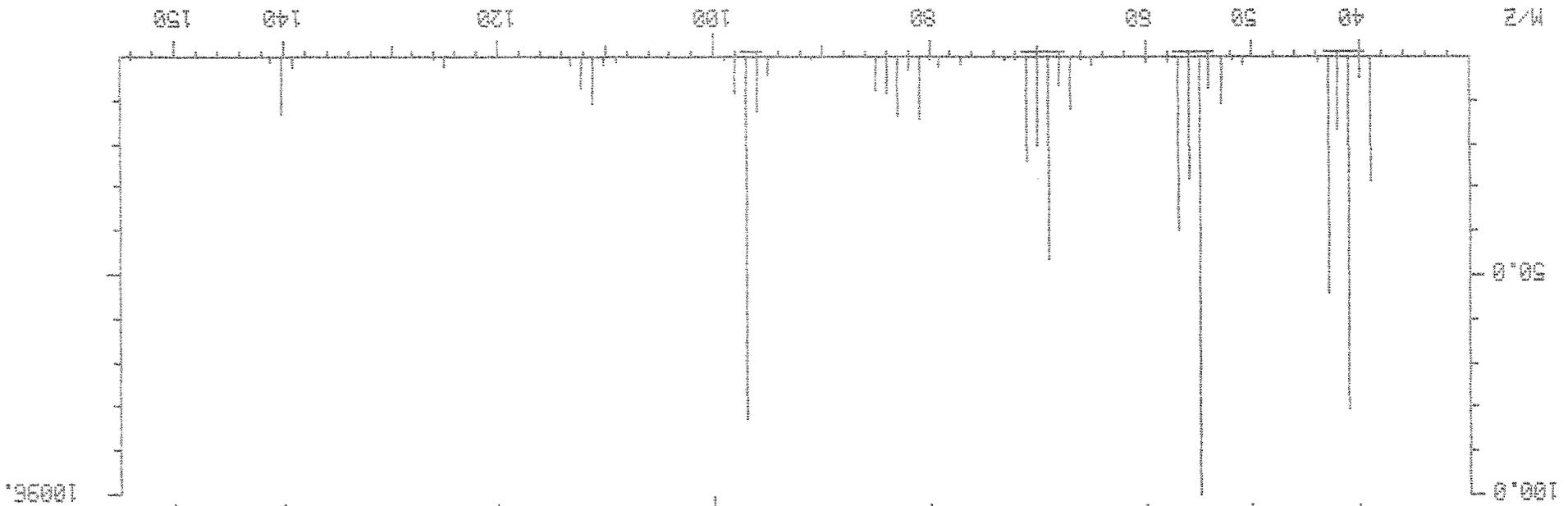
MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 7:20
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 440
CALI: 15337Z # 3

BASE M/Z: 69
RIC: 26144.



2120



DUAL MASS SPECTRUM

08/30/93 11:57:00 + 7:49

SAMPLE: #5042456 J082646 559252

COND.: AUTOSAMPLR 150Z

TEMP: 77 DEG. C

ENHANCED (5 158 ZN 01)

DATA: 15337Z #469

CALI: 15337Z #3

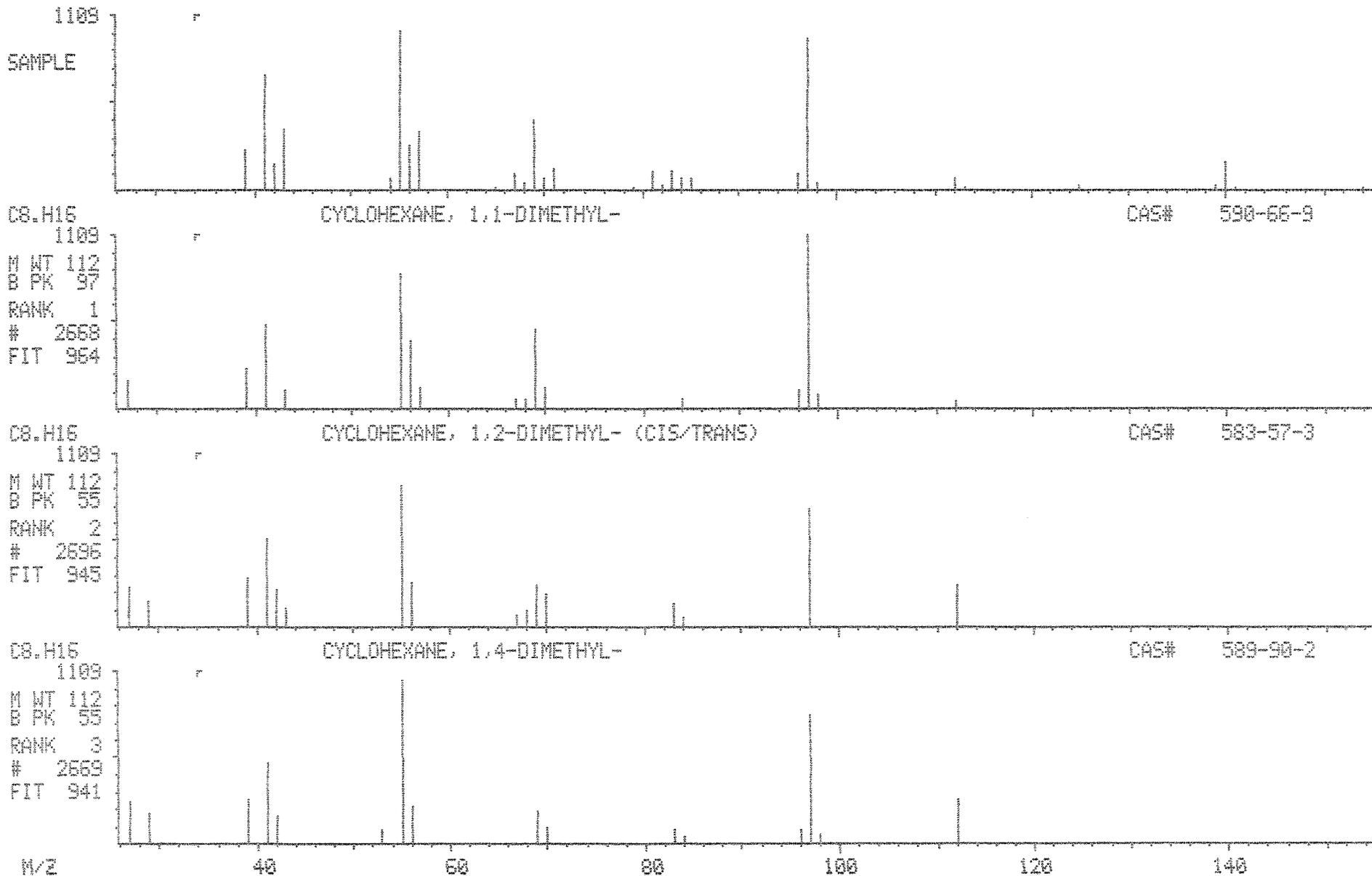
BASE M/Z: 55/ 55

RIC: 40704. / 70016.

MID LIBRARY SEARCH (LIBRARYMB)
08/30/93 11:57:00 + 7:49
SAMPLE: AS042456 JOB2646 SS9252
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 469
CALI: 15337Z # 3

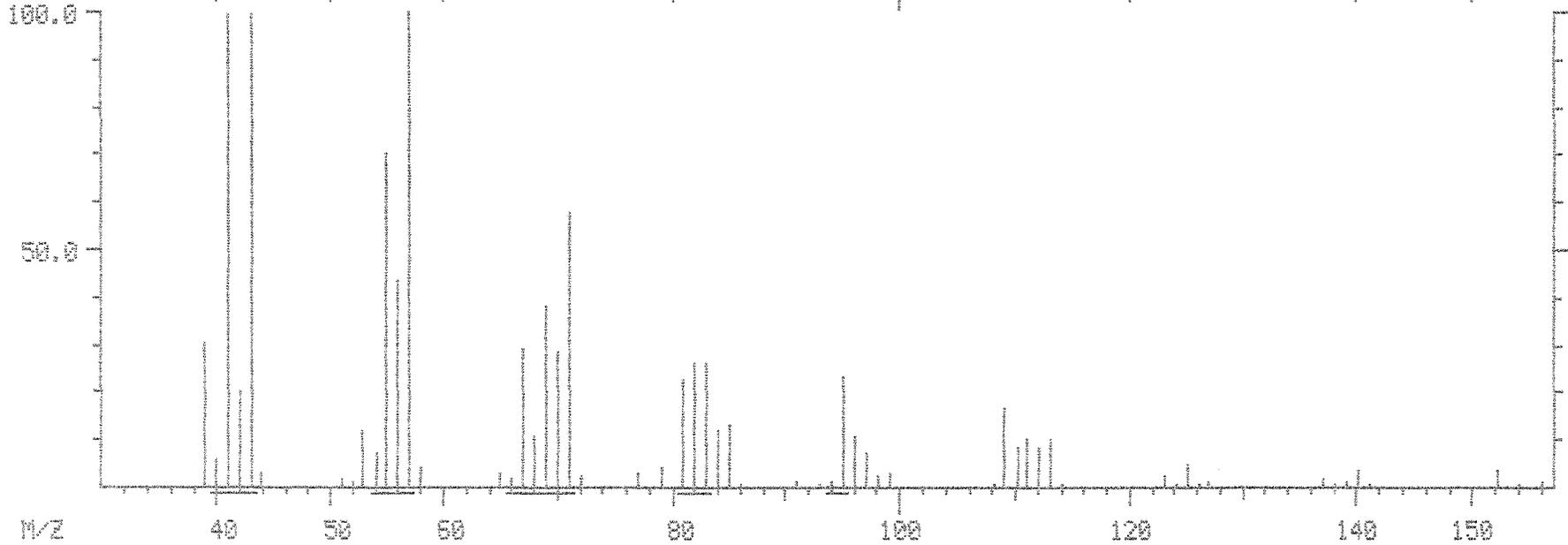
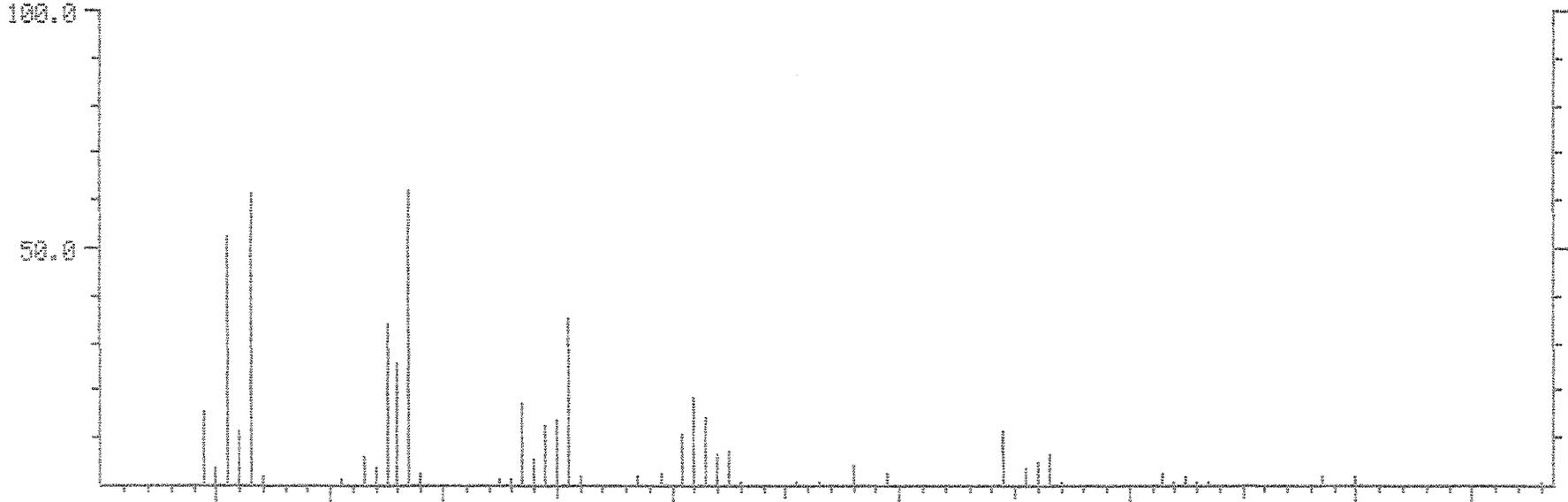
BASE M/Z: 55
RIC: 39680.



DUAL MASS SPECTRUM
08/30/93 11:57:00 + 8:28
SAMPLE: AS042456 JOB2646 SS9252
CONDS.: AUTOSAMPLR I50Z
TEMP: 83 DEG. C
ENHANCED (S 158 2N 0T)

DATA: 15337Z #508
CALI: 15337Z #3

BASE M/Z: 57/ 57
RIC: 55488./ 105216.



M/Z

10275

Library Search Data: 15337Z # 508 Base m/z: 57
 08/30/93 11:57:00 + 8:28 Cali: 15337Z # 3 RIC: 53888.
 Sample: A5042456 JOB2646 S59252
 Conds.: AUTOSAMPLR I50Z
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
 136 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name
1	8539 1-PENTANOL, 4-METHYL-2-PROPYL-
2	8104 OCTANE, 3,5-DIMETHYL-
3	2607 2-HEPTENAL, (Z)-
4	20599 OCTANE, 2-BROMO-
5	15969 HYDROXYLAMINE, D-DECYL-

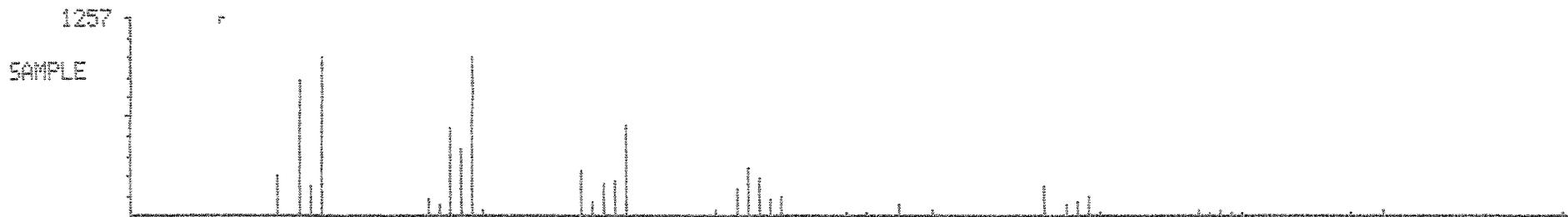
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C9. H20. O	144	57	662	964	668
2	C10. H22	142	57	632	936	652
3	C7. H12. O	112	41	557	928	557
4	C8. H17. BR	192	71	617	921	627
5	C10. H23. O. N	173	43	695	916	717

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	_____	_____	_____	_____	54004-41-0
2	_____	_____	_____	_____	15869-93-9
3	_____	_____	_____	_____	57266-86-1
4	_____	_____	_____	_____	557-35-7
5	_____	_____	_____	_____	29812-79-1

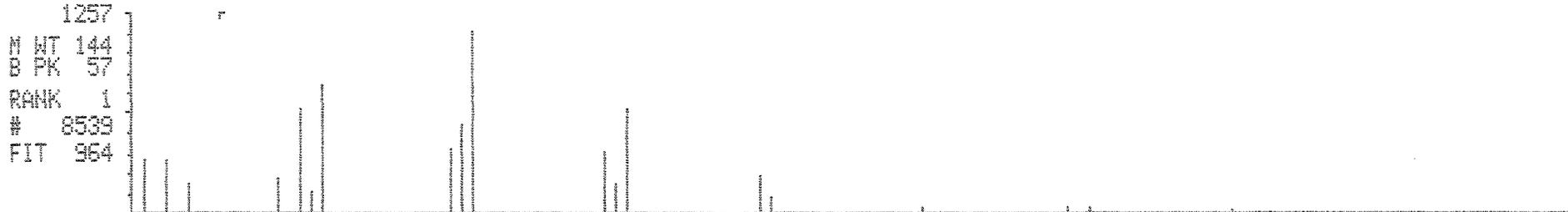
MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 8:28
SAMPLE: A5042456 JOB2546 559252
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 508
CALI: 15337Z # 3

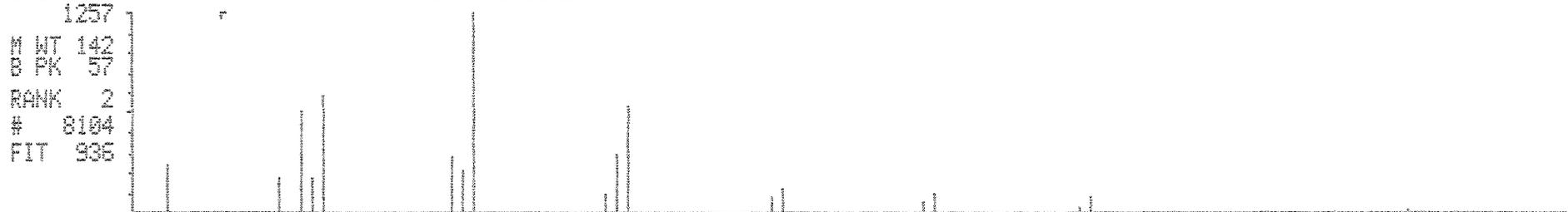
BASE M/Z: 57
RIC: 53888.



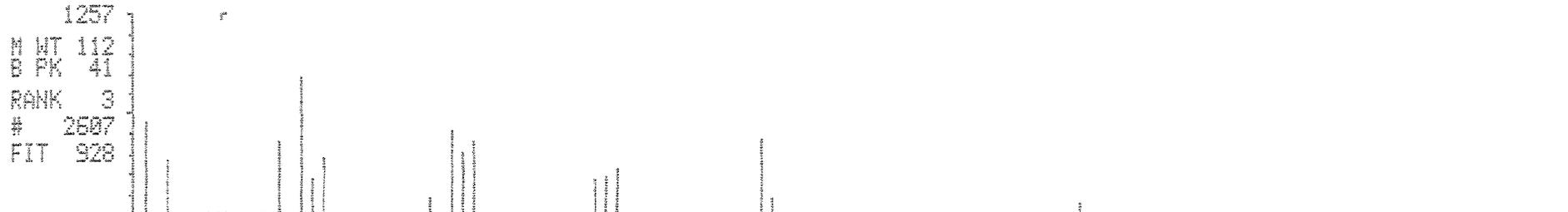
C9.H20.O 1-PENTANOL, 4-METHYL-2-PROPYL- CAS# 54004-41-0



C10.H22 OCTANE, 3,5-DIMETHYL- CAS# 15869-93-9



C7.H12.O 2-HEPTENAL, (Z)- CAS# 57255-85-1

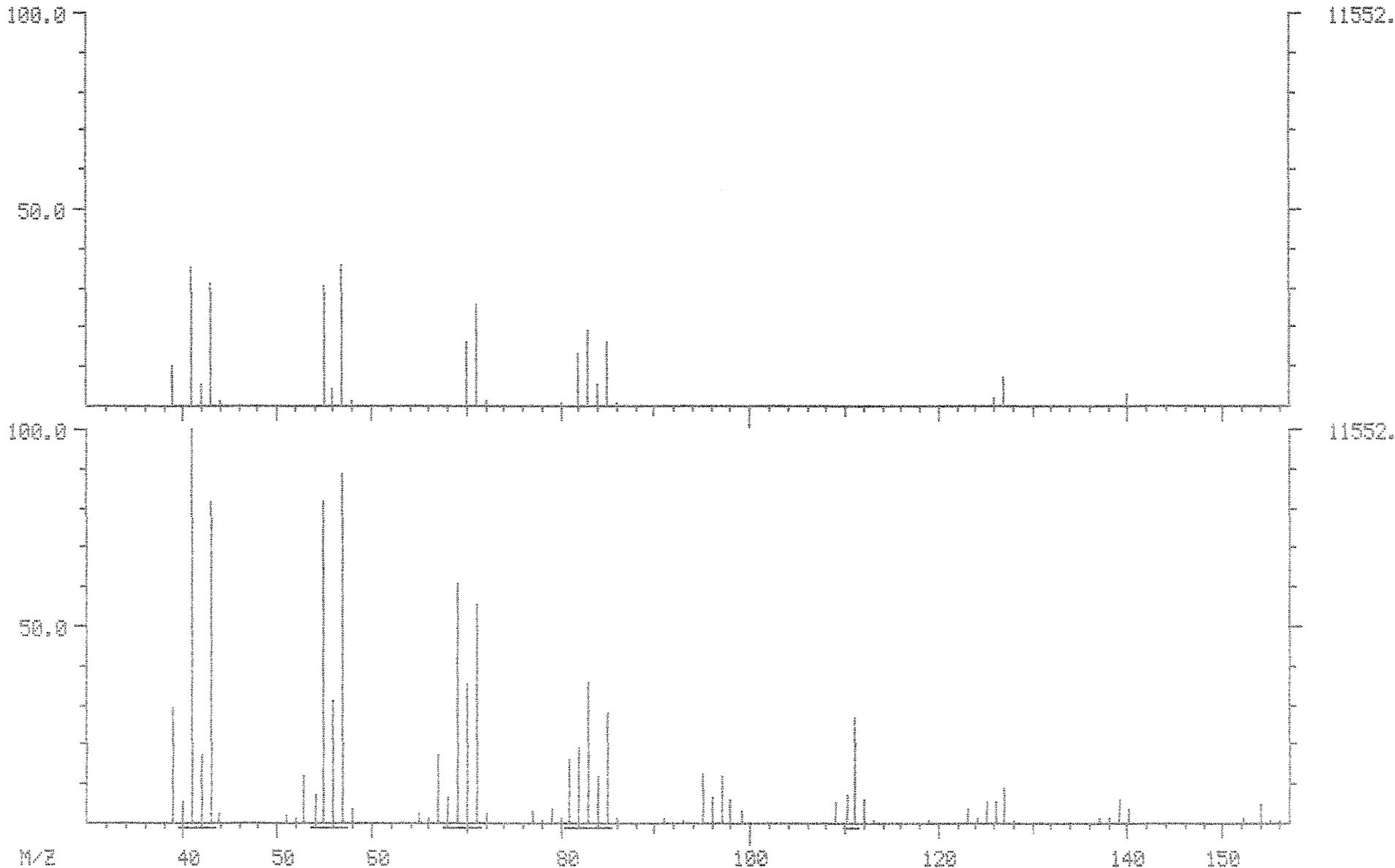


M/Z 40 50 60 80 100 120 140

DUAL MASS SPECTRUM
08/30/93 11:57:00 + 8:40
SAMPLE: AS042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #520
CALI: 15337Z #3

BASE M/Z: 57/ 41
RIC: 30496./ 102784.



10278

Library Search Data: 15337Z # 520 Base m/z: 57
 08/30/93 11:57:00 + 8:40 Cali: 15337Z # 3 RIC: 30496.
 Sample: AS042456 JOB2646 SS9252
 Conds.: AUTOSAMPLR I50Z
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum FIT
 74 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name
1	5143 HEXANE, 2,3,4-TRIMETHYL-
2	11605 OCTANE, 6-ETHYL-2-METHYL-
3	11600 DECANE, 3-METHYL-
4	15350 UNDECANE, 4-METHYL-
5	5147 OCTANE, 4-METHYL-

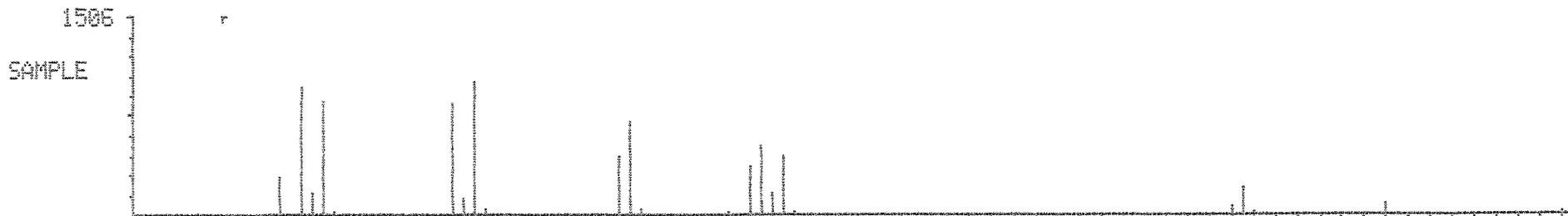
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C9. H20	128	43	643	890	673
2	C11. H24	156	43	666	884	689
3	C11. H24	156	71	701	878	737
4	C12. H26	170	43	699	869	725
5	C9. H20	128	43	630	866	660

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	921-47-1
2	---	---	---	---	62016-19-7
3	---	---	---	---	13151-34-3
4	---	---	---	---	2980-69-0
5	---	---	---	---	2216-34-4

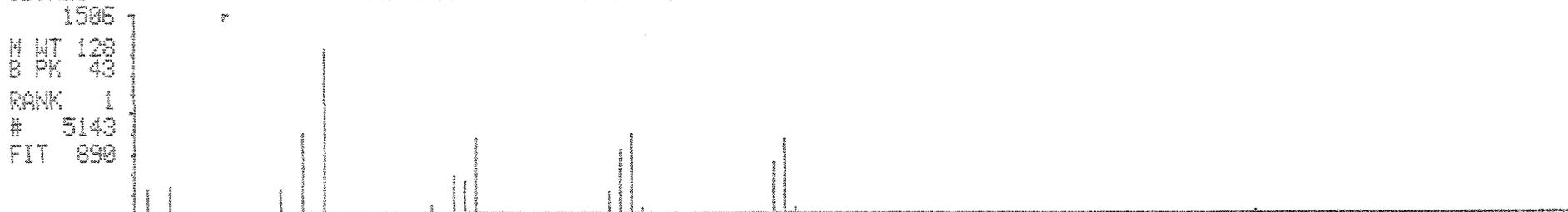
MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 8:40
SAMPLE: A5042456 JOB2646 S59252
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 520
CALI: 15337Z # 3

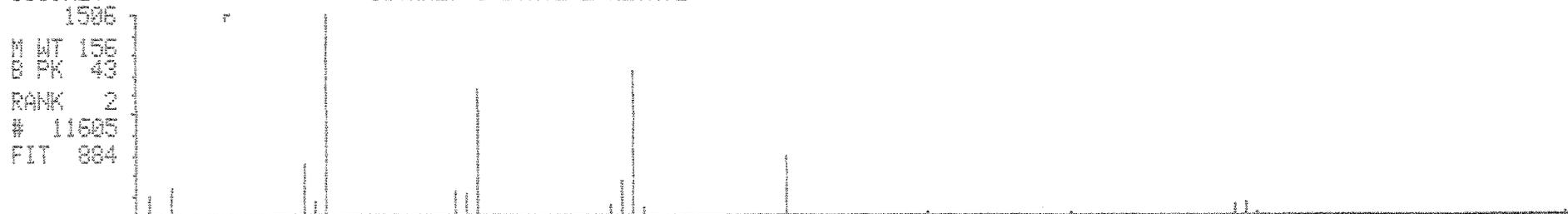
BASE M/Z: 57
RIC: 30496.



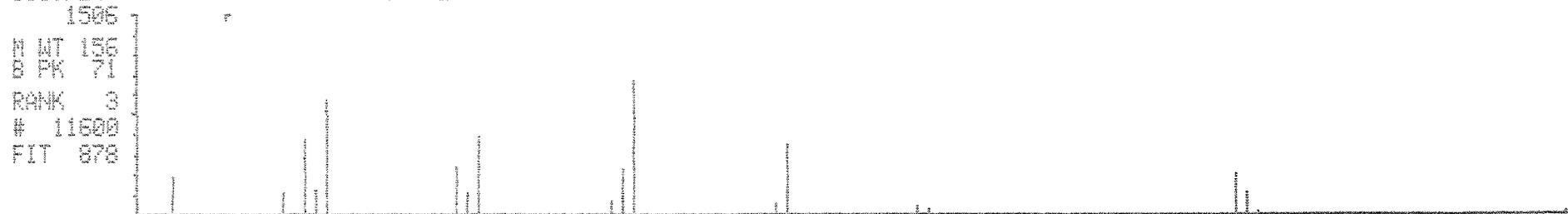
D9.H20 HEXANE, 2,3,4-TRIMETHYL- CAS# 921-47-1



D11.H24 OCTANE, 6-ETHYL-2-METHYL- CAS# 62016-19-7



D11.H24 DECANE, 3-METHYL- CAS# 13151-34-3



M/Z

40

60

80

100

120

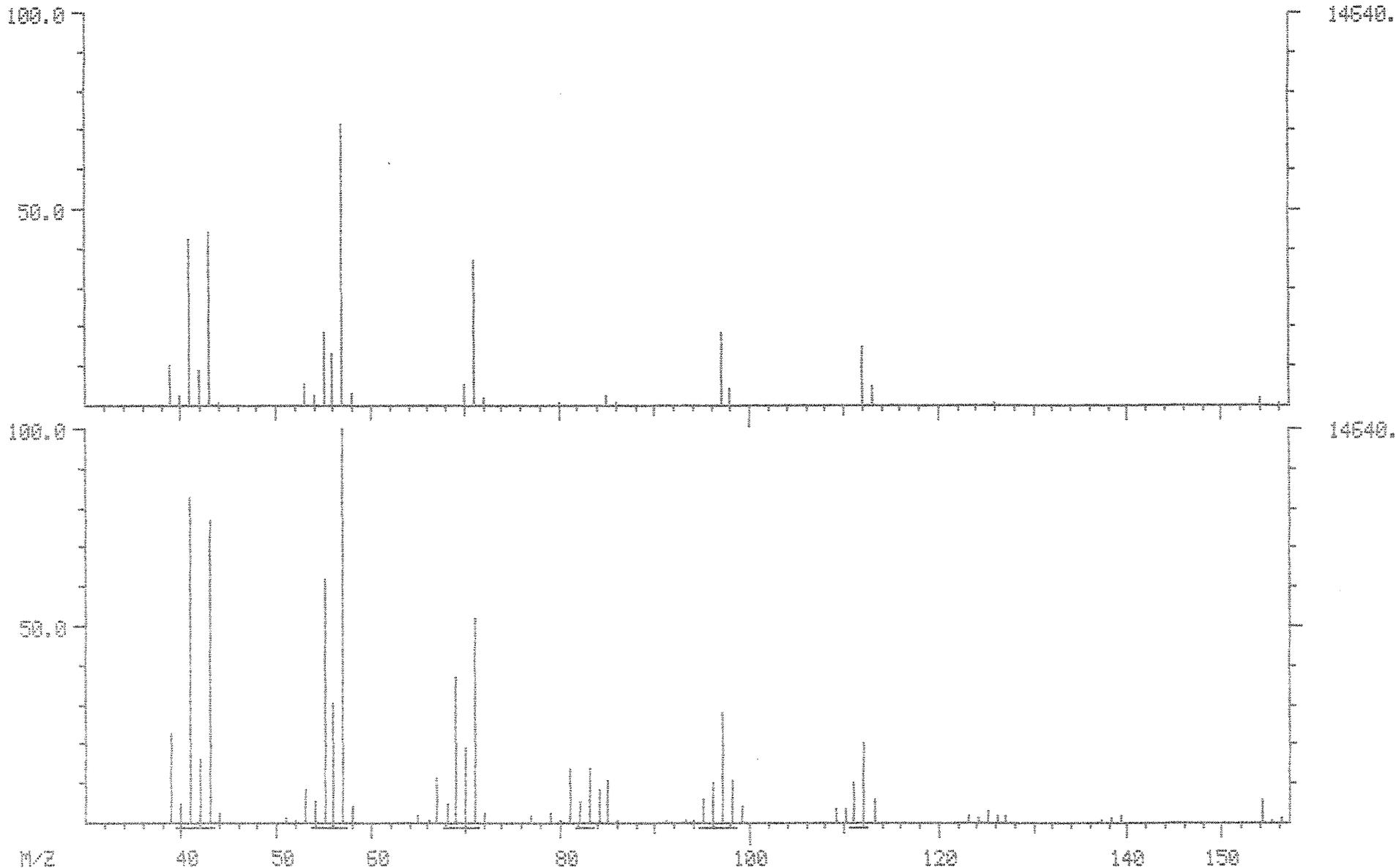
140

10280

DUAL MASS SPECTRUM
08/30/93 11:57:00 + 8:46
SAMPLE: A5042456 JOB2546 559252
CONDS.: AUTOSAMPLR 150Z
TEMP: 85 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #526
CALI: 15337Z #3

BASE M/Z: 57/ 57
RIC: 46016./ 106624.



Library Search Data: 15337Z # 526 Base m/z: 57
 08/30/93 11:57:00 + 8:46 Cali: 15337Z # 3 RIC: 45696.
 Sample: A5042456 JOB2646 SS9252
 Conds.: AUTOSAMPLR I50Z
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
 59 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name
1	8096 HEPTANE, 5-ETHYL-2-METHYL-
2	8088 HEPTANE, 3-ETHYL-5-METHYL-
3	8078 OCTANE, 3-ETHYL-
4	11599 OCTANE, 2,3,7-TRIMETHYL-
5	8099 OCTANE, 2,6-DIMETHYL-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C10. H22	142	43	772	942	783
2	C10. H22	142	57	756	935	770
3	C10. H22	142	43	751	929	769
4	C11. H24	156	57	725	908	757
5	C10. H22	142	57	768	905	797

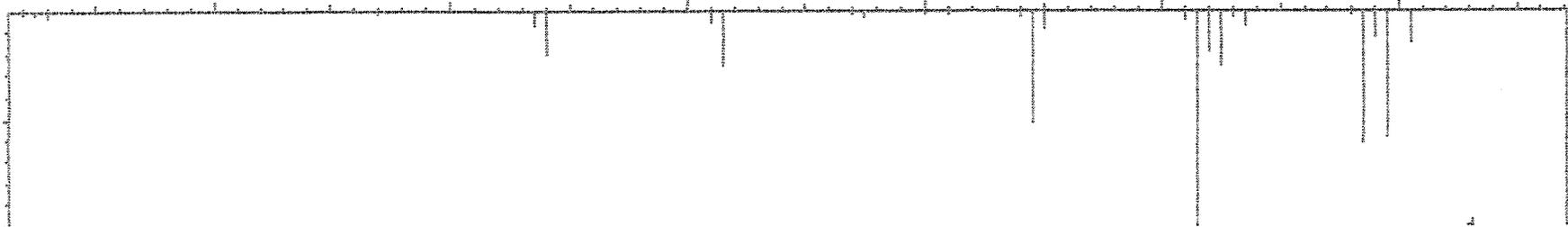
Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	-----	-----	-----	-----	13475-78-0
2	-----	-----	-----	-----	52896-90-9
3	-----	-----	-----	-----	5881-17-4
4	-----	-----	-----	-----	62016-34-6
5	-----	-----	-----	-----	2051-30-1

0283

DATA: 15337Z # 526
BASE M/Z: 57
RICH: 45696.

MID LIBRARY SEARCH (LIBRARYB)
08/30/93 11:57:00 + 8:46
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR 1502
ENHANCED (S 158 2N 01)

1000
SAMPLE



CAS# 13475-78-0

HEPTANE, 5-ETHYL-2-METHYL-

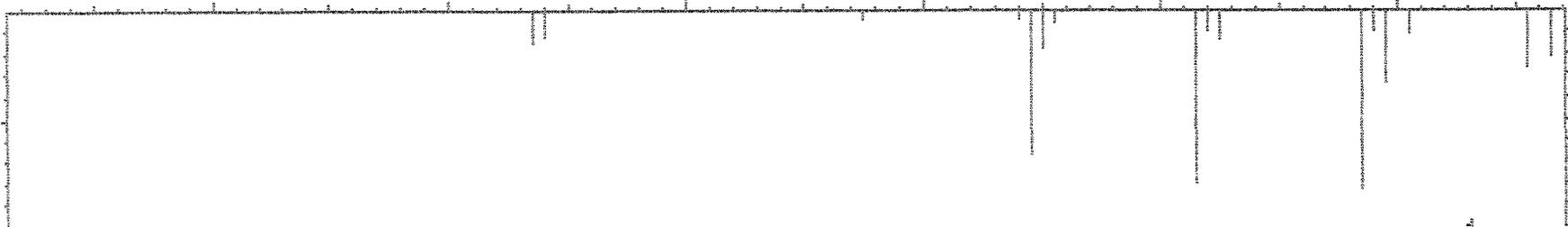
C10.H22

1000

M WT 142
B PK 43
RANK 1

8096

FIT 942



CAS# 52896-98-9

HEPTANE, 3-ETHYL-5-METHYL-

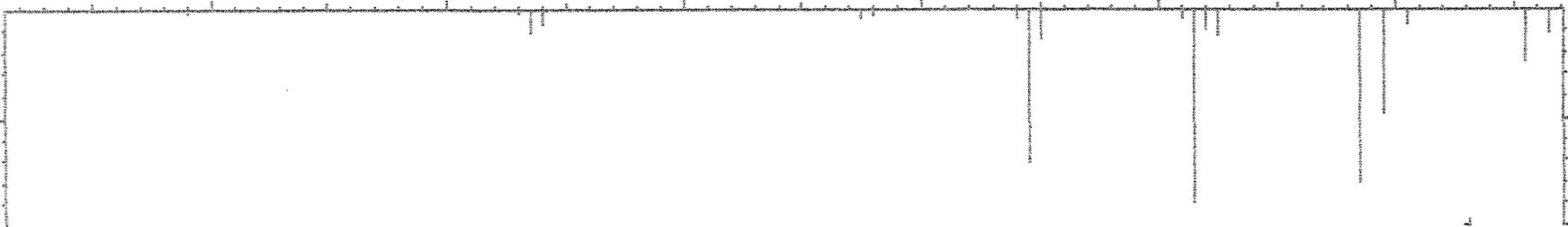
C10.H22

1000

M WT 142
B PK 57
RANK 2

8688

FIT 935



CAS# 5881-17-4

OCTANE, 3-ETHYL-

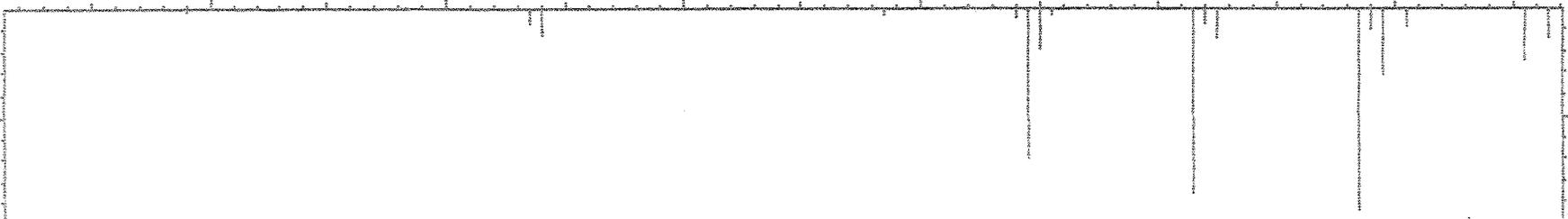
C10.H22

1000

M WT 142
B PK 43
RANK 3

8678

FIT 929



M/Z

40

50

80

100

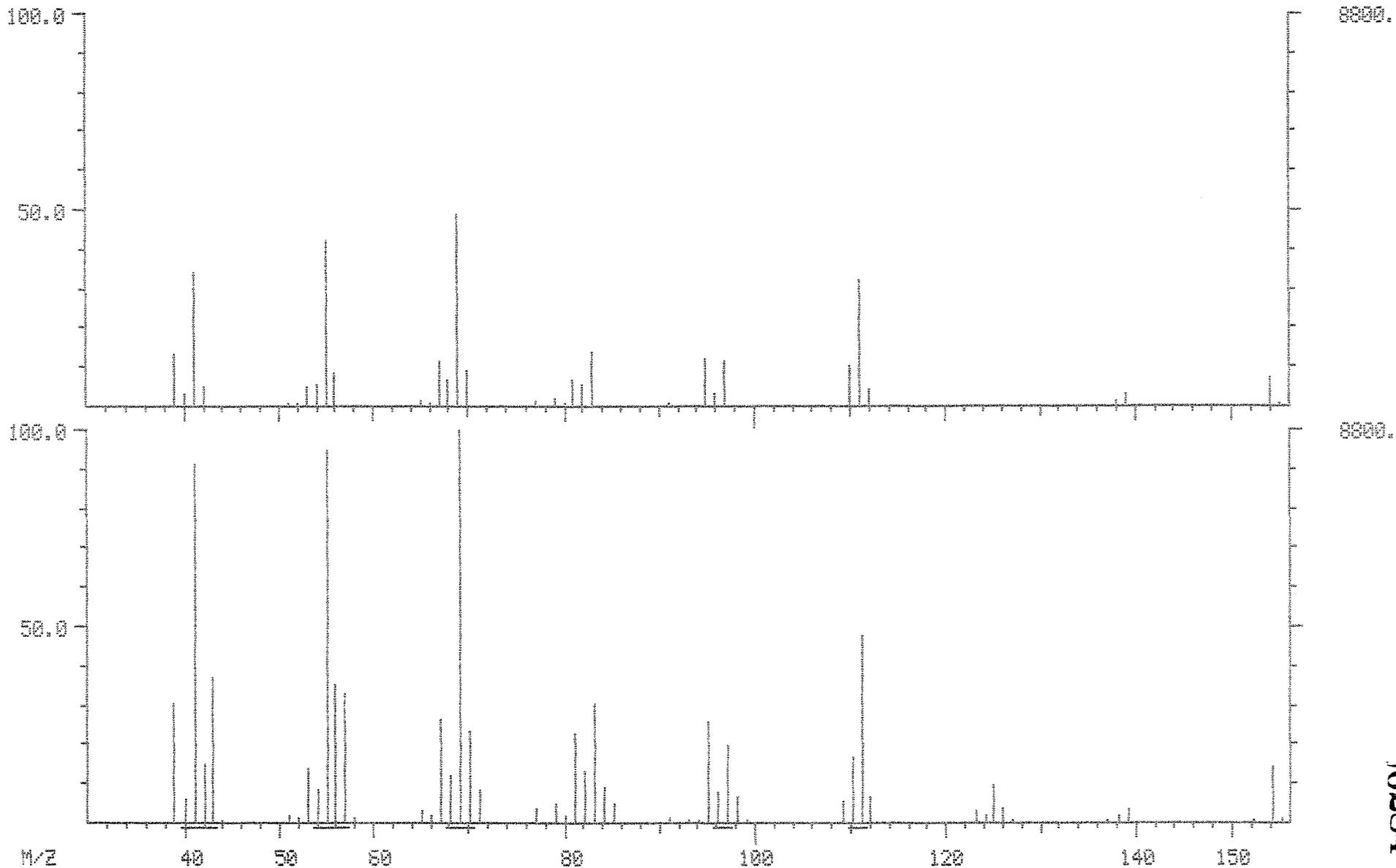
120

140

DUAL MASS SPECTRUM
08/30/93 11:57:00 + 8:58
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR 150Z
TEMP: 87 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #538
CALI: 15337Z #3

BASE M/Z: 69/ 69
RIC: 27040./ 71680.



10284

Library Search Data: 15337Z # 538 Base m/z: 69
 08/30/93 11:57:00 + 8:58 Cali: 15337Z # 3 RIC: 27040.
 Sample: A5042456 JOB2646 S59252
 Conds.: AUTOSAMPLR I50Z
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
 356 matched at least 7 of the 16 largest peaks in the unknown

Rank In.	Name
1	2311 2-METHYL-1,5-HEPTADIENE (C,T)
2	7056 1,4-HEPTADIENE, 3,3,6-TRIMETHYL-
3	2655 3-HEPTENE, 4-METHYL-
4	28271 1,1'-BICYCLOOCTYL
5	4205 2,7-OCTADIENE, 4-METHYL-

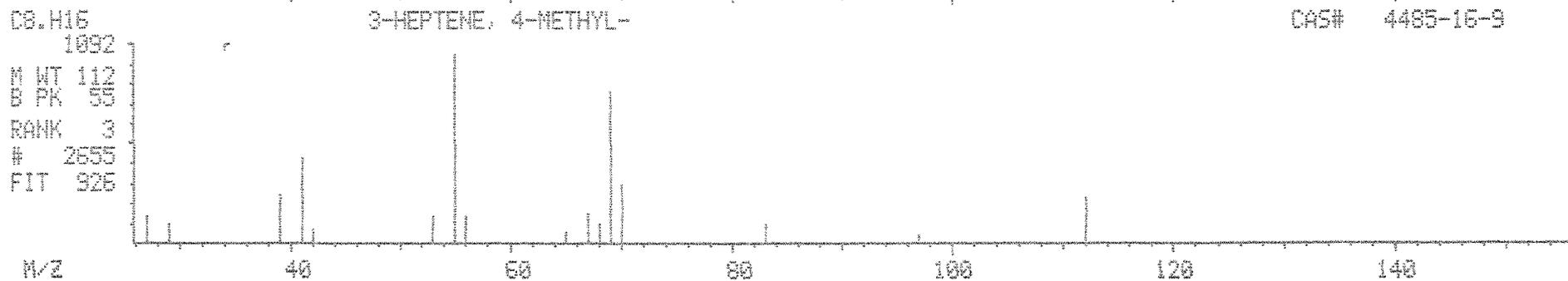
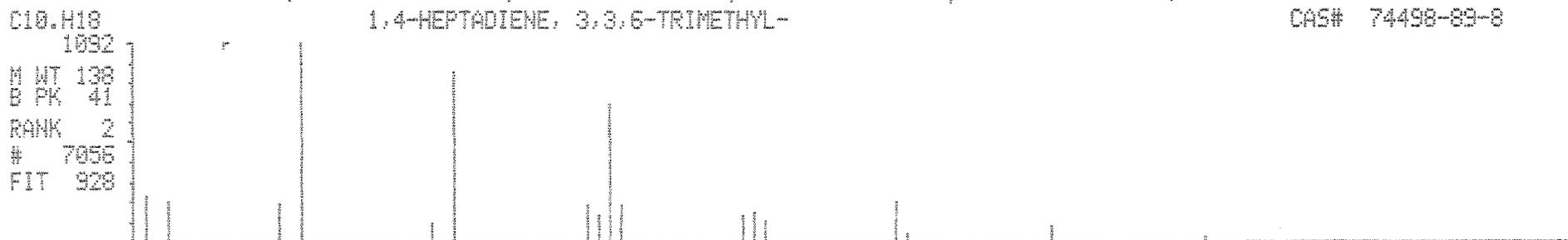
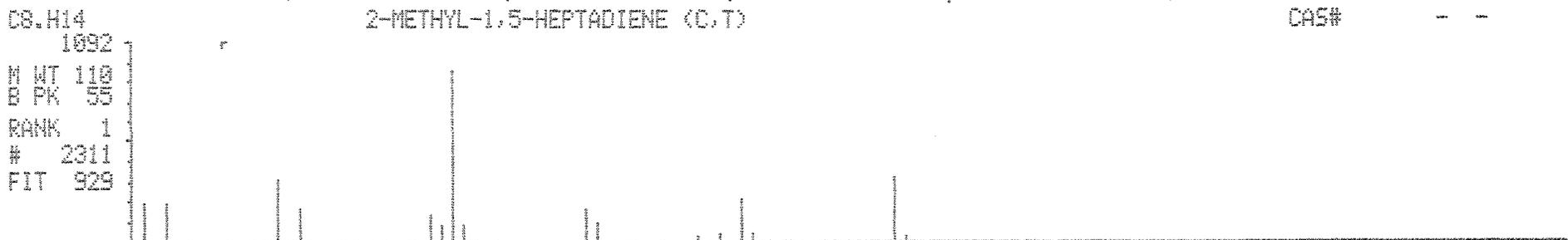
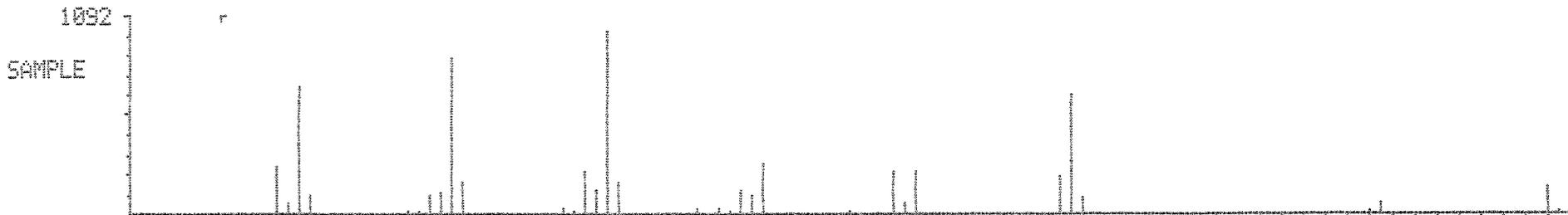
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C8. H14	110	55	366	929	366
2	C10. H18	138	41	535	928	560
3	C8. H16	112	55	533	926	533
4	C16. H30	222	69	712	923	728
5	C9. H16	124	41	530	914	544

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	---
2	---	---	---	---	74498-89-8
3	---	---	---	---	4485-16-9
4	---	---	---	---	6708-17-4
5	---	---	---	---	---

MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 8:58
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR 150Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 538
CALI: 15337Z # 3

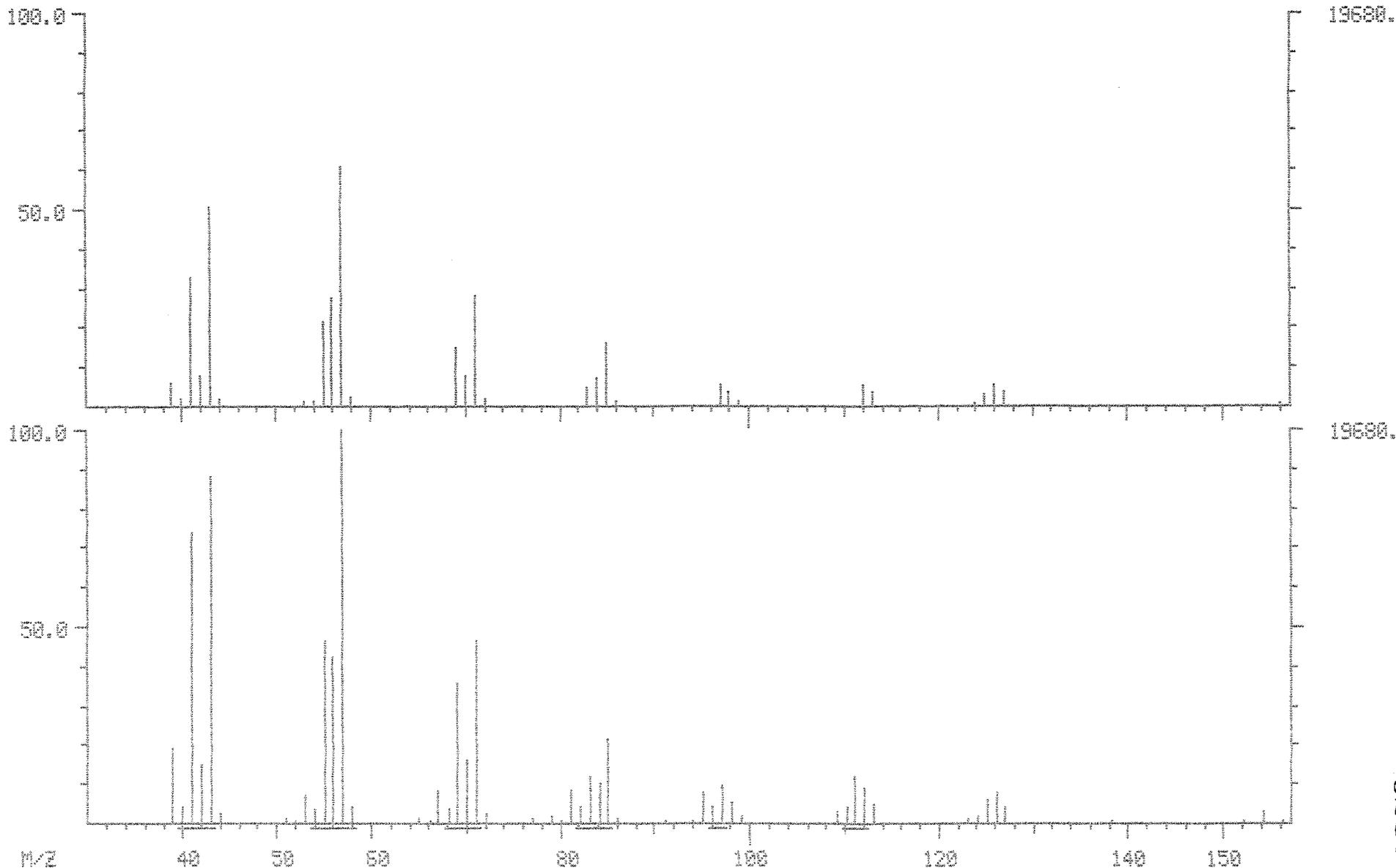
BASE M/Z: 69
RIC: 27040.



DUAL MASS SPECTRUM
08/30/93 11:57:00 + 9:06
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 88 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #546
CALI: 15337Z #3

BASE M/Z: 57/ 57
RIC: 64448./ 131640.



Library Search Data: 15337Z # 546 Base m/z: 57
 08/30/93 11:57:00 + 9:06 Cali: 15337Z # 3 RIC: 64064.
 Sample: A6042456 JDB2646 S59252
 Conds.: AUTOSAMPLR I50Z
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum FIT
 315 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name
1	23017 HEXANE, 1-(HEXYLOXY)-5-METHYL-
2	23009 ETHER, HEPTYL HEXYL
3	14793 1-UNDECENE, 4-METHYL-
4	B539 1-PENTANOL, 4-METHYL-2-PROPYL-
5	18989 UNDECANE, 3,4-DIMETHYL-

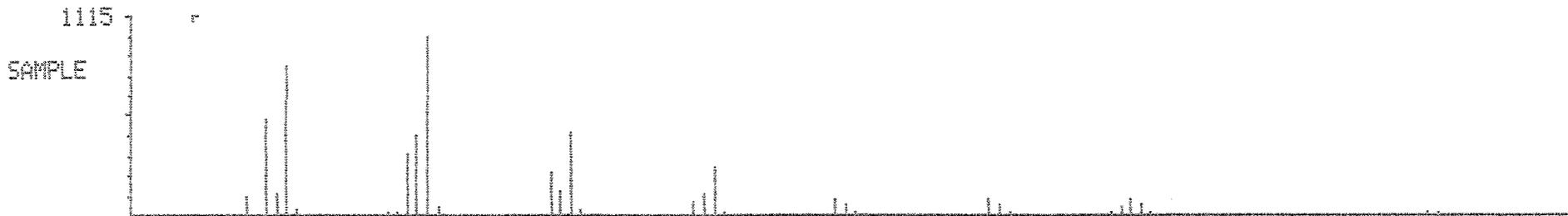
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C13. H28. O	200	57	715	968	720
2	C13. H28. O	200	57	705	963	714
3	C12. H24	168	43	854	956	858
4	C9. H20. O	144	57	757	953	767
5	C13. H28	184	43	822	948	822

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	----	----	----	----	74421-19-5
2	----	----	----	----	7289-40-9
3	----	----	----	----	74630-39-0
4	----	----	----	----	54004-41-0
5	----	----	----	----	17312-78-6

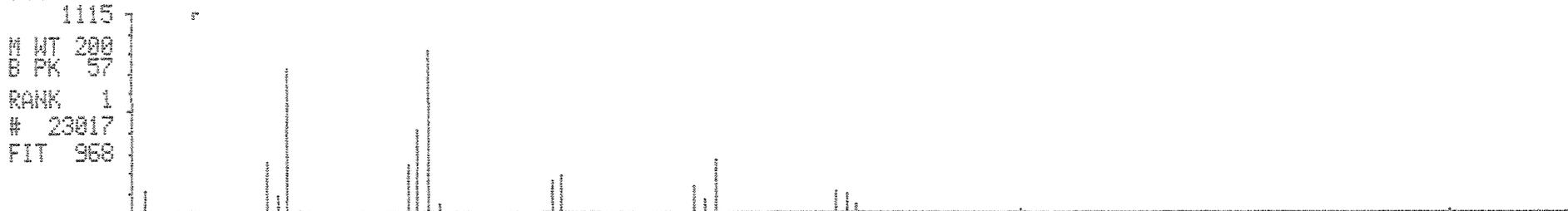
MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 9:06
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR 150Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 546
CALI: 15337Z # 3

BASE M/Z: 57
RIC: 64054.

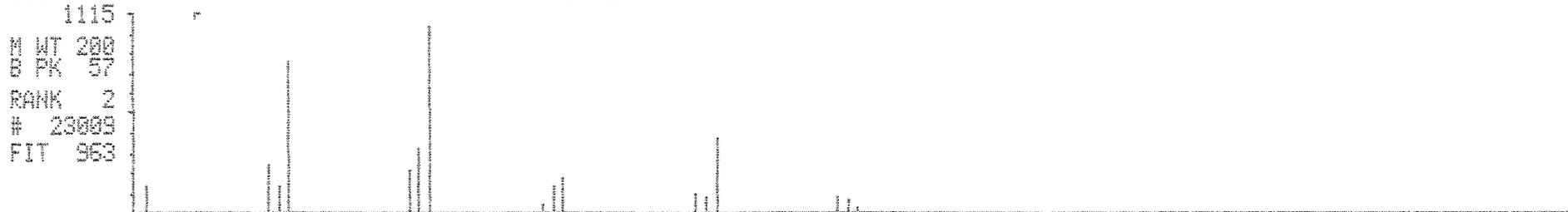


C13.H28.0 HEXANE, 1-(HEXYLOXY)-5-METHYL- CAS# 74421-19-5



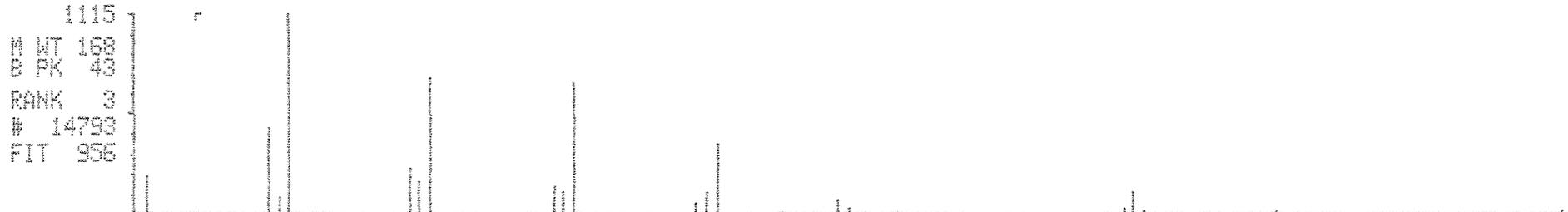
M WT 200
B PK 57
RANK 1
23017
FIT 968

C13.H28.0 ETHER, HEPTYL HEXYL CAS# 7289-40-9



M WT 200
B PK 57
RANK 2
23009
FIT 963

C12.H24 1-UNDECENE, 4-METHYL- CAS# 74530-39-0



M WT 168
B PK 43
RANK 3
14793
FIT 956

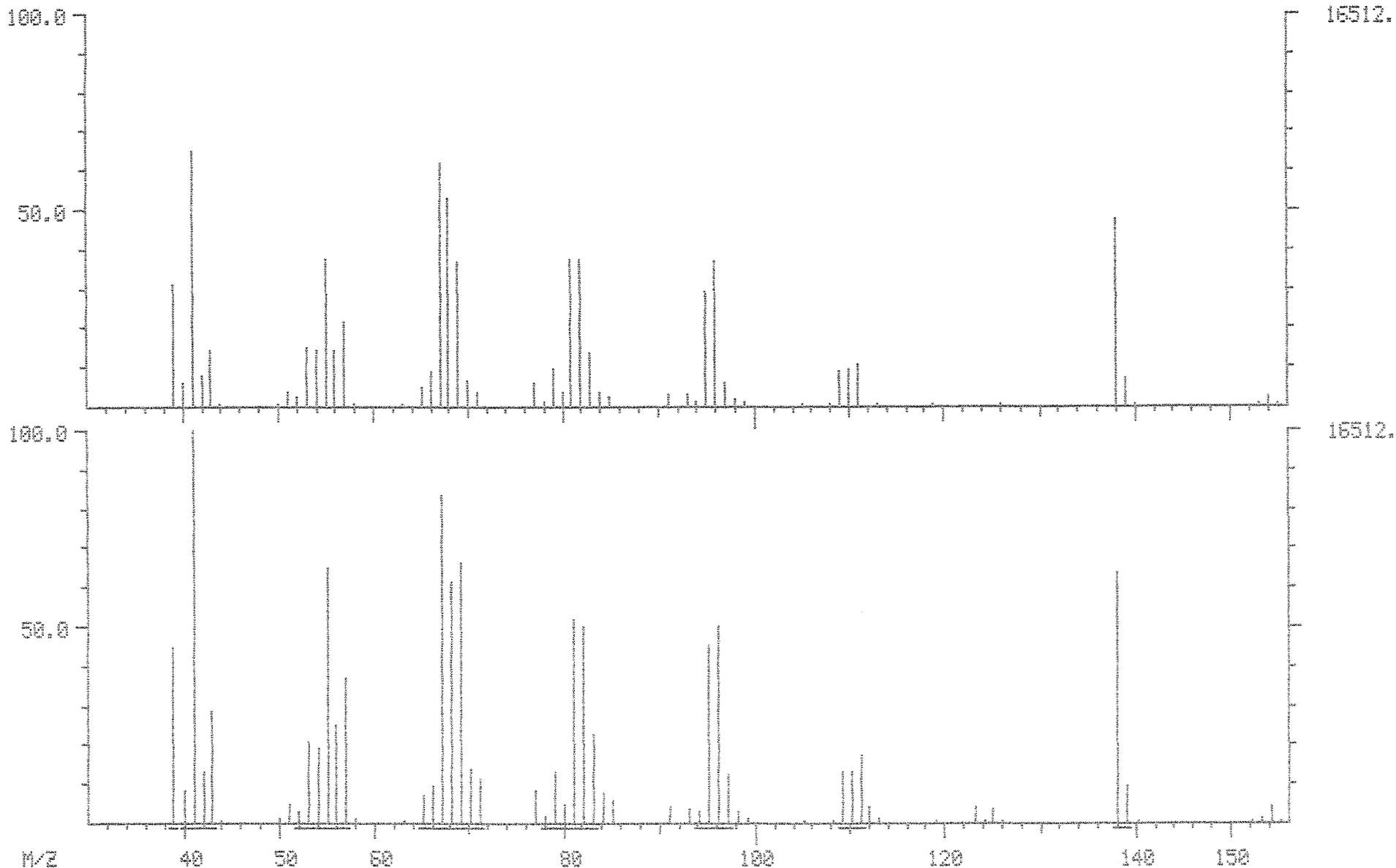
M/Z 40 60 80 100 120 140 160

10289

DUAL MASS SPECTRUM
08/30/93 11:57:00 + 9:12
SAMPLE: A5042455 JOB2545 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 88 DEG. C
ENHANCED (S 158 2N 0T)

DATA: 15337Z #552
CALI: 15337Z #3

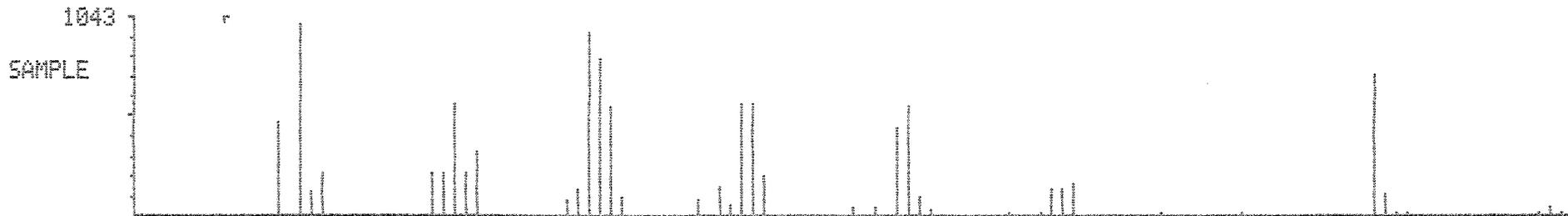
BASE M/Z: 41/ 41
RIC: 115200./ 173056.



MID LIBRARY SEARCH (LIBRARY#B)
08/30/93 11:57:00 + 9:12
SAMPLE: AS042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 552
CALI: 15337Z # 3

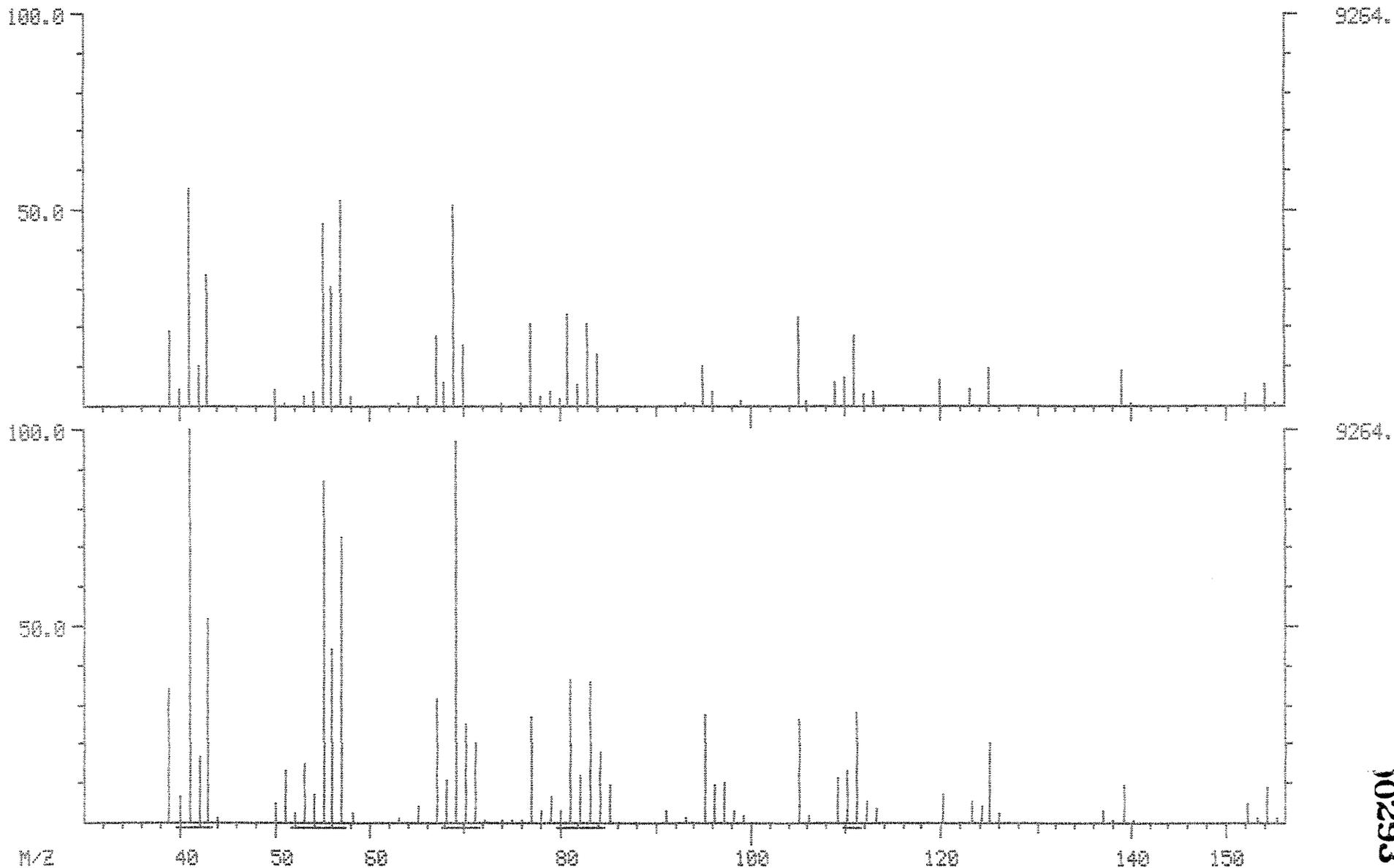
BASE M/Z: 41
RIC: 110848.



DUAL MASS SPECTRUM
08/30/93 11:57:00 + 9:21
SAMPLE: AS042456 JOB2546 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 90 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #561
CALI: 15337Z #3

BASE M/Z: 41/ 41
RIC: 52416./ 94288.



10293

Library Search Data: 15337Z # 561 Base m/z: 41
 08/30/93 11:57:00 + 9:21 Call: 15337Z # 3 RIC: 50816.

Sample: A5042456 JOB2646 589252

Conds.: AUTOSAMPLR 150Z

Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYB searched for maximum FIT
 105 matched at least 8 of the 16 largest peaks in the unknown

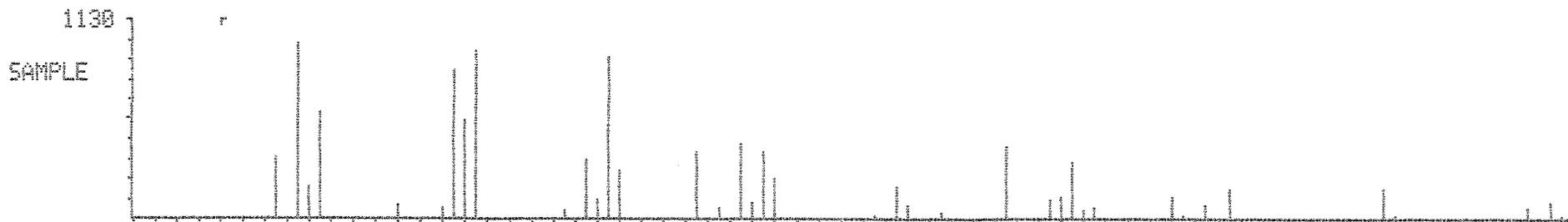
Rank In.	Name	Rank	Formula	M.Wt B.Pk	Purity	Fit	RFit
1	5540 1-HEPTANOL, 6-METHYL-	1	CB.H18.O	130	41	923	491
2	5507 ISOOCTANOL	2	CB.H18.O	130	43	922	472
3	7604 CYCLOOCTANE, 1,4-DIMETHYL-, TRANS-	3	C10.H20	140	55	904	566
4	7605 CYCLOOCTANE, 1,4-DIMETHYL-, CIS-	4	C10.H20	140	55	899	554
5	7556 CYCLOPROPANE, 1-METHYL-2-(3-METHYLPENTYL)-	5	C10.H20	140	41	894	552

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	-----	-----	-----	-----	1653-40-3
2	-----	-----	-----	-----	26952-21-6
3	-----	-----	-----	-----	13151-98-9
4	-----	-----	-----	-----	13151-99-0
5	-----	-----	-----	-----	62238-07-7

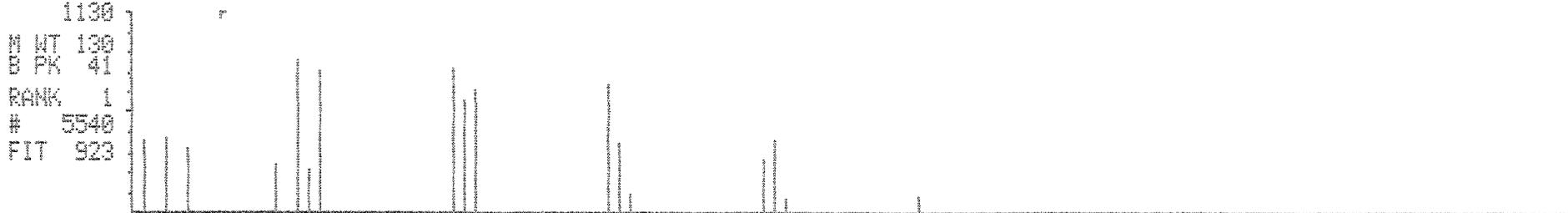
NID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 9:21
SAMPLE: A5042456 JOB2646 SS9252
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 561
CALI: 15337Z # 3

BASE M/Z: 41
RIC: 50816.

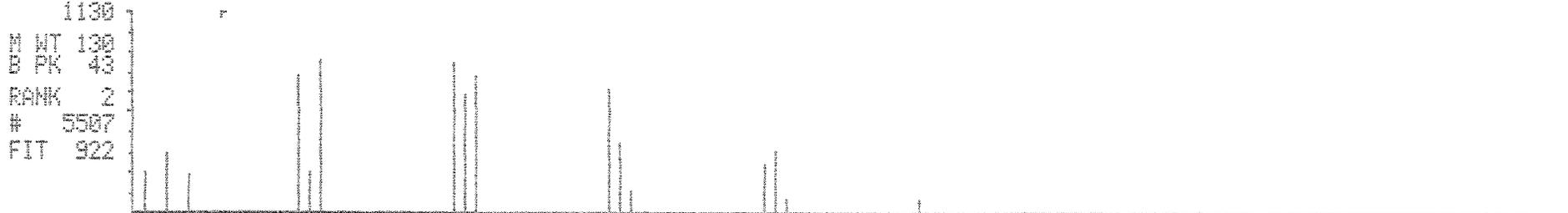


C8.H18.O 1-HEPTANOL, 6-METHYL- CAS# 1653-40-3



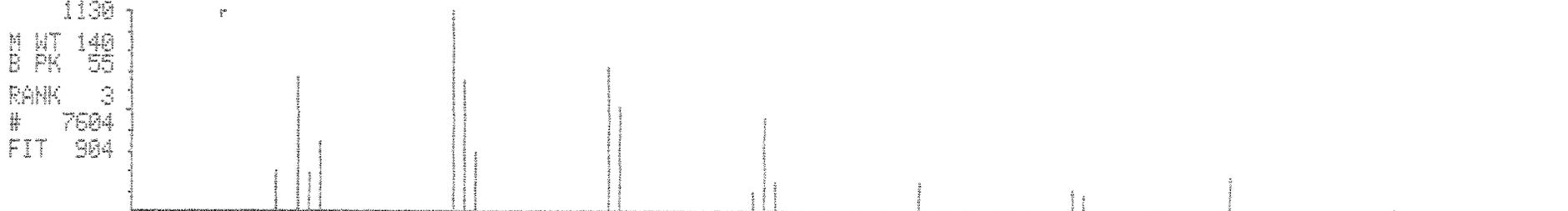
M WT 130
B PK 41
RANK 1
5540
FIT 923

C8.H18.O ISOCTANOL CAS# 26952-21-5



M WT 130
B PK 43
RANK 2
5507
FIT 922

C10.H20 CYCLODOCTANE, 1,4-DIMETHYL-, TRANS- CAS# 13151-98-9



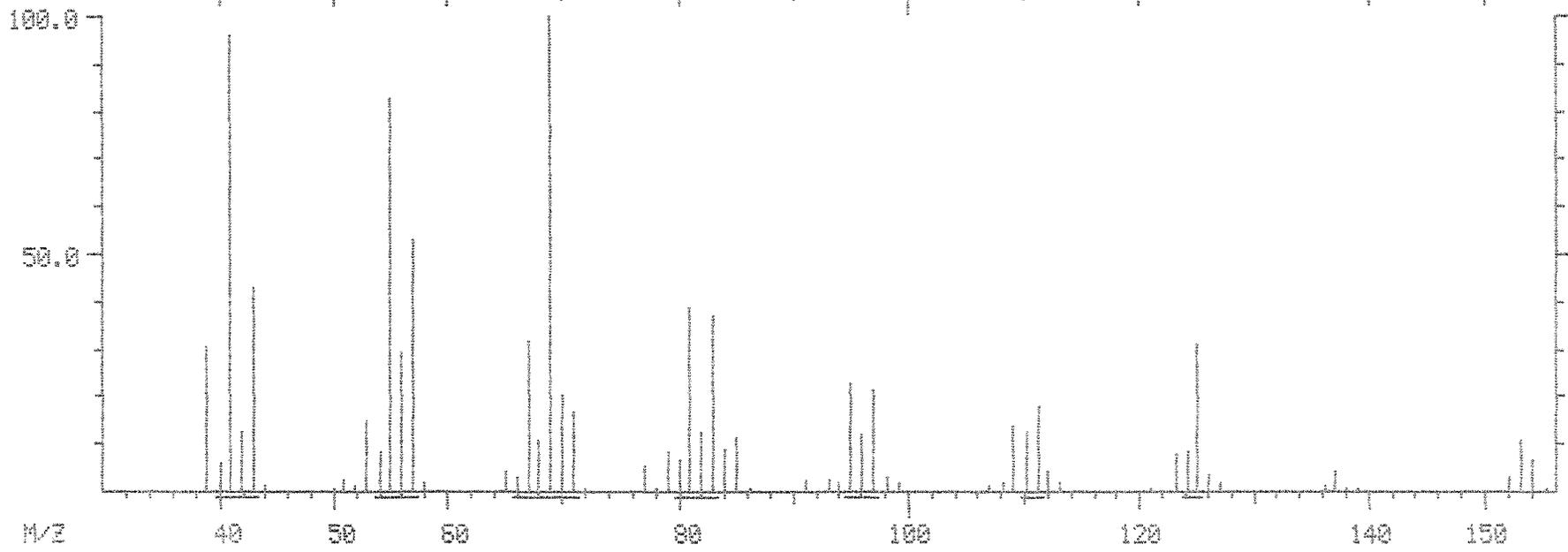
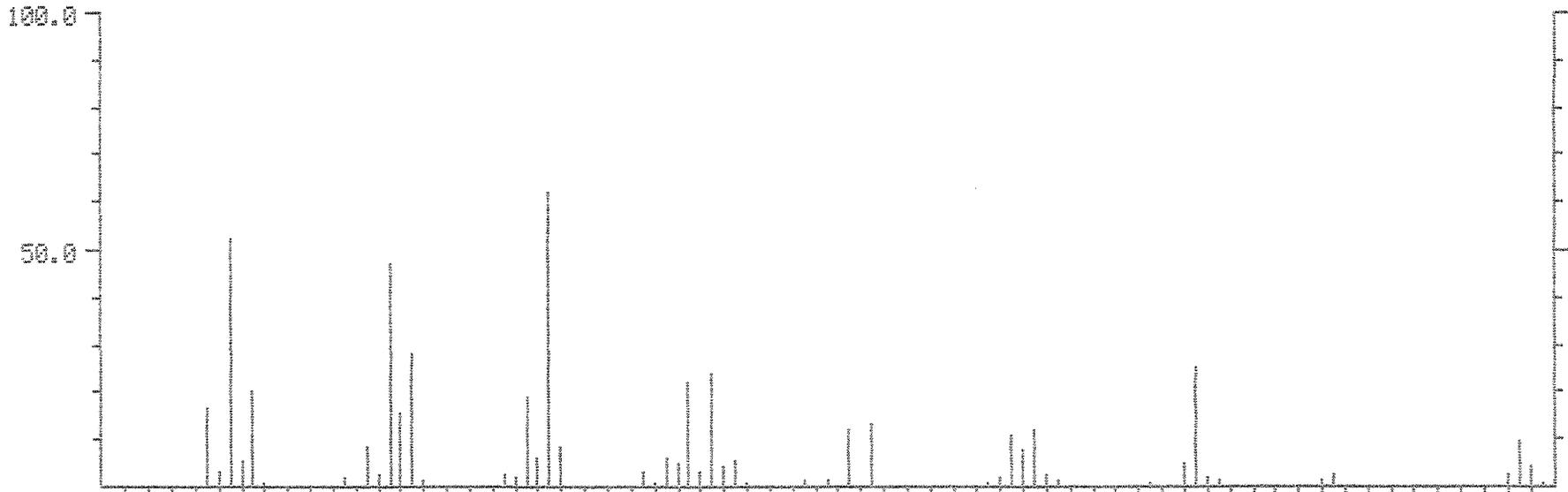
M WT 140
B PK 55
RANK 3
7604
FIT 984

M/Z 40 60 80 100 120 140

DUAL MASS SPECTRUM
08/30/93 11:57:00 + 9:38
SAMPLE: A5042456 JOB2546 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 92 DEG. C
ENHANCED (S 158 2N 0T)

DATA: 15337Z #578
CALI: 15337Z #3

BASE M/Z: 69/ 69
RIC: 59200./ 108800.



10296

Library Search Data: 15337Z # 578 Base m/z: 69
 08/30/93 11:57:00 + 9:38 Cali: 15337Z # 3 RIC: 57344.
 Sample: AS042456 JOB2646 SS9252
 Conds.: AUTOSAMPLR 150Z
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum FIT
 359 matched at least 7 of the 16 largest peaks in the unknown

Rank In.	Name
1	14750 4-NONENE, 2,3,3-TRIMETHYL-, (E)-
2	2673 CYCLOPENTANE, 1,1,3-TRIMETHYL-
3	11058 CYCLOHEXANE, 1-ETHYL-2-PROPYL-
4	14757 4-NONENE, 2,3,3-TRIMETHYL-, (Z)-
5	11069 1-DECENE, 5-METHYL-

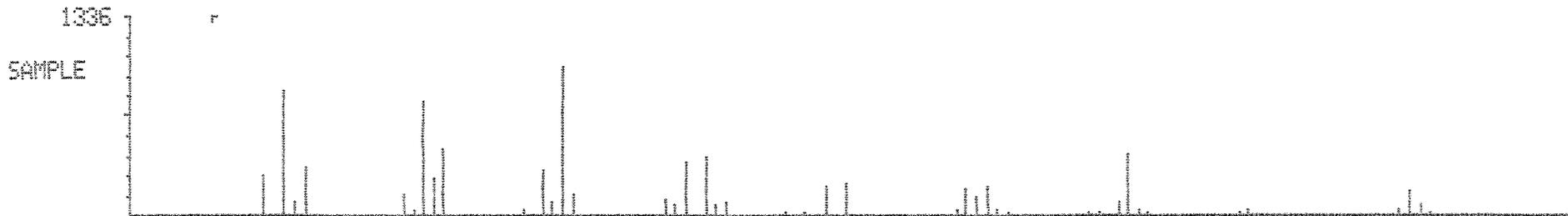
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C12.H24	168	69	547	939	559
2	C8.H16	112	55	476	931	476
3	C11.H22	154	69	608	926	608
4	C12.H24	168	69	608	910	619
5	C11.H22	154	55	541	904	551

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	-----	-----	-----	-----	63830-67-1
2	-----	-----	-----	-----	4516-69-2
3	-----	-----	-----	-----	62238-33-9
4	-----	-----	-----	-----	63830-68-2
5	-----	-----	-----	-----	54244-79-0

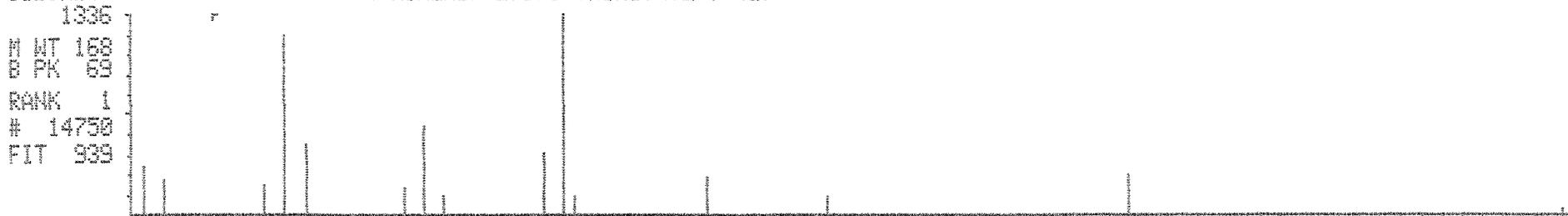
MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 9:38
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 158 2N 0T)

DATA: 15337Z # 578
CALI: 15337Z # 3

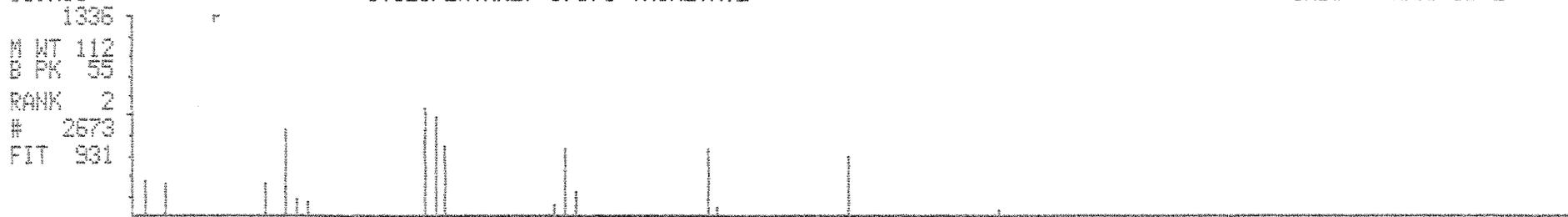
BASE M/Z: 69
RIC: 57344.



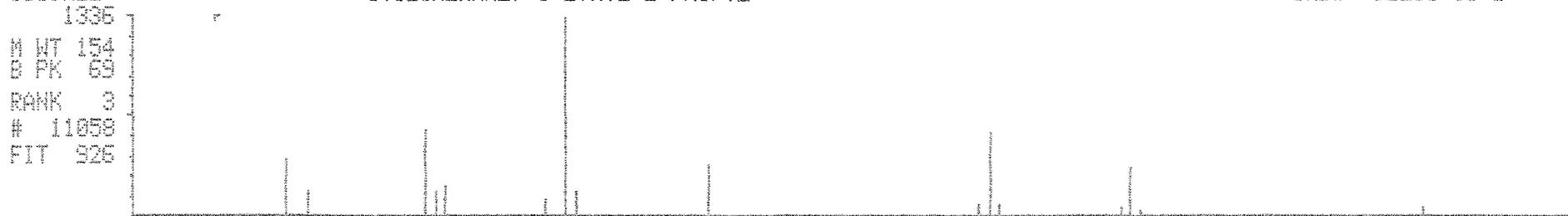
C12.H24 4-NONENE, 2,3,3-TRIMETHYL-, (E)- CAS# 63830-67-1



C9.H16 CYCLOPENTANE, 1,1,3-TRIMETHYL- CAS# 4516-69-2



C11.H22 CYCLOHEXANE, 1-ETHYL-2-PROPYL- CAS# 62238-33-3

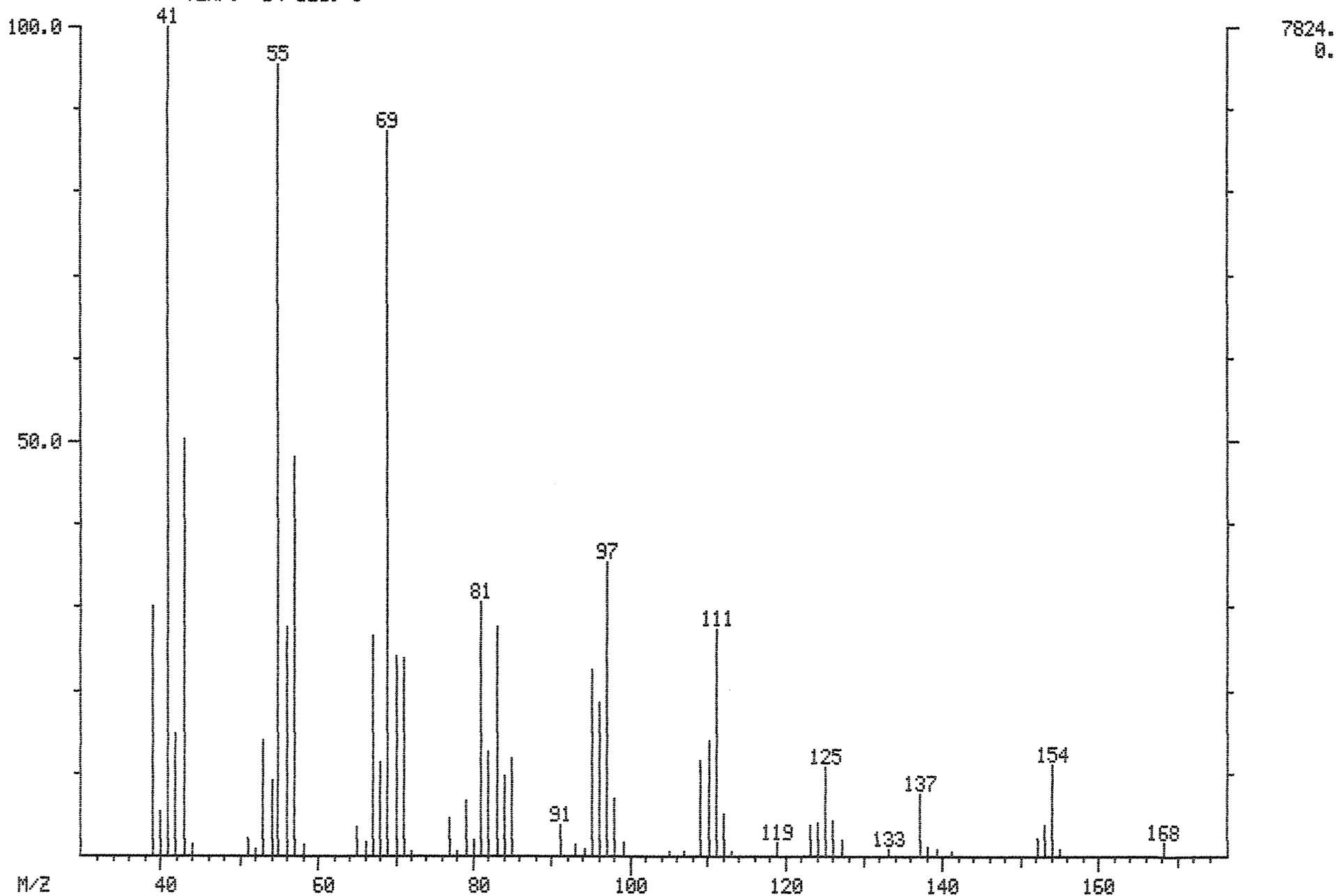


M/Z 40 60 80 100 120 140 160

MASS SPECTRUM
08/30/93 11:57:00 + 9:54
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 94 DEG. C

DATA: 15337Z #594
CALI: 15337Z #3

BASE M/Z: 41
RIC: 70144.

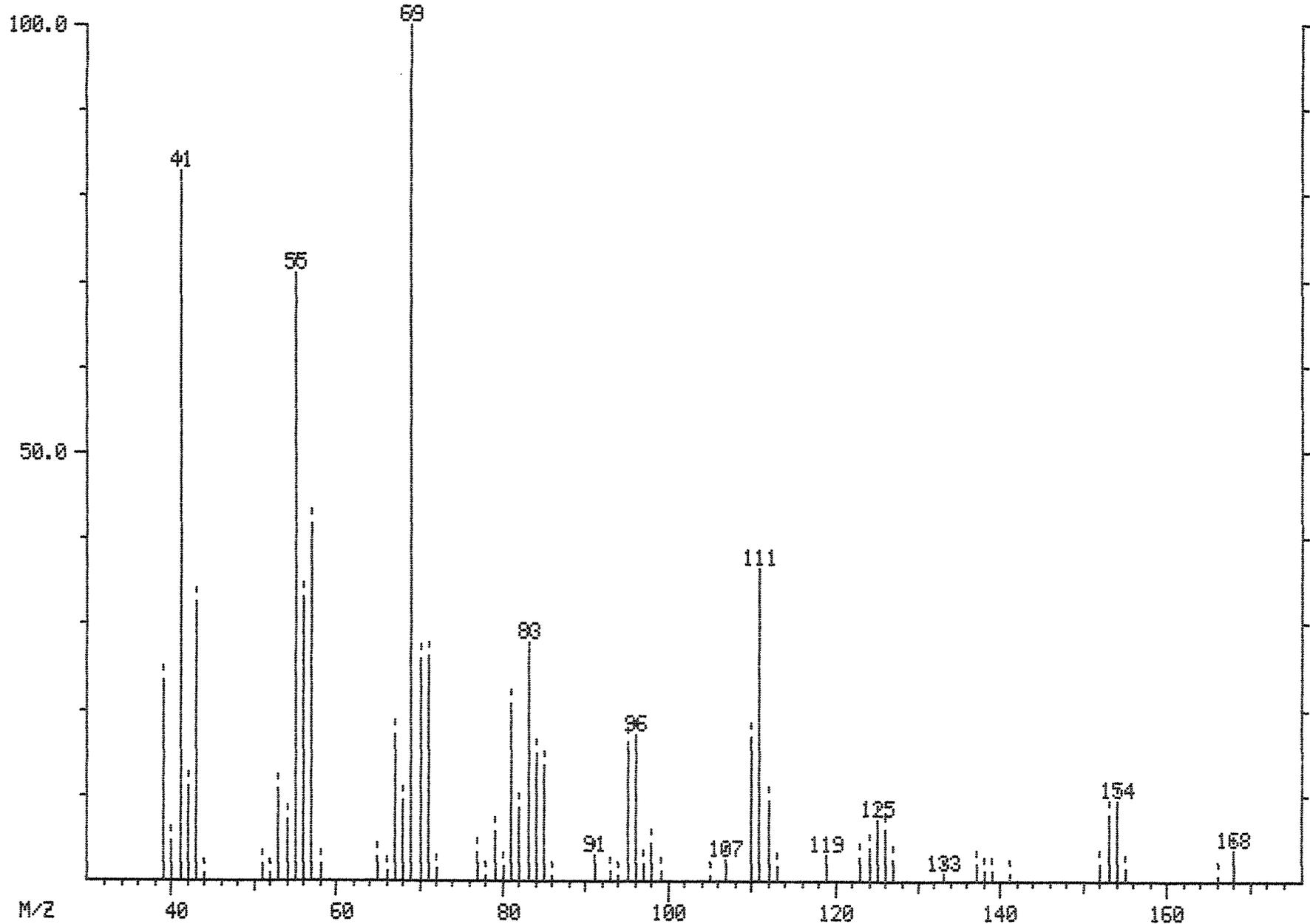


10299

MASS SPECTRUM
08/30/93 11:57:00 + 9:53
SAMPLE: A5042456 JOB2546 S59252
CONDS.: AUTOSAMPLR I50Z
TEMP: 94 DEG. C
#593 TO #594 AVERAGED - #500

DATA: 15337Z #593
CALI: 15337Z #3

BASE M/Z: 69
RIC: 30944.



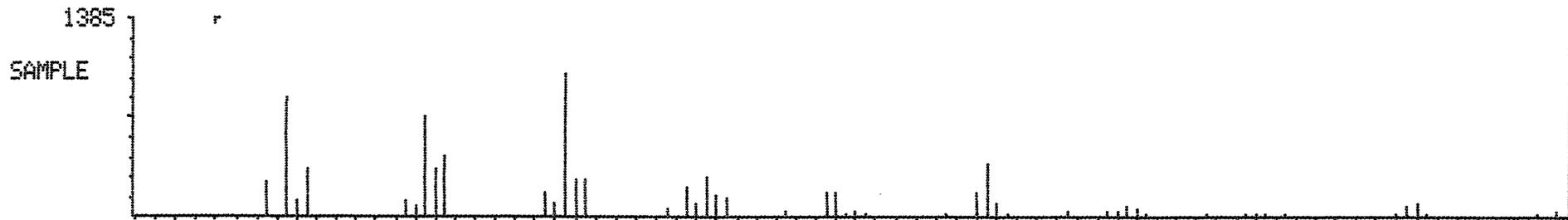
3984.
0.

10300

MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 9:53
SAMPLE: A5042456 JOB2646 S59252
CONDS.: AUTOSAMPLR I502
593 TO # 594 AVERAGED - # 600

DATA: 15337Z # 593
CALI: 15337Z # 3

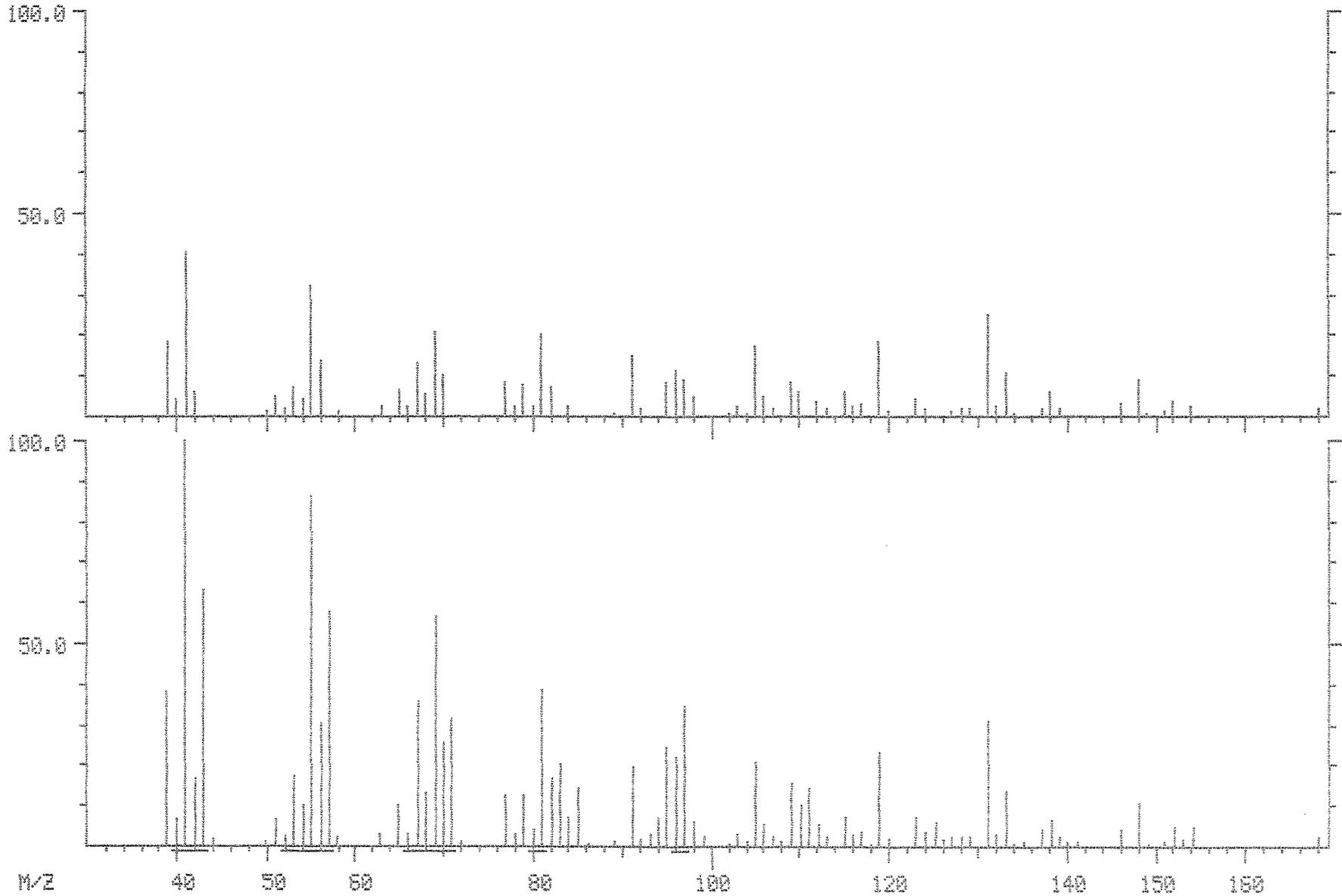
BASE M/Z: 69
RIC: 29952.



DUAL MASS SPECTRUM
08/30/93 11:57:00 + 10:08
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR 1502
TEMP: 95 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #608
CALI: 15337Z #3

BASE M/Z: 41/ 41
RIC: 38912./ 95232.



10303

Library Search Data: 15337Z # 608 Base m/z: 41
 08/30/93 11:57:00 + 10:08 Call: 15337Z # 3 RIC: 35712

Sample: A5042456 J082646 559252
 Cond.: AUTOSAMPLR 150Z
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum FIT
 396 matched at least 6 of the 16 largest peaks in the unknown

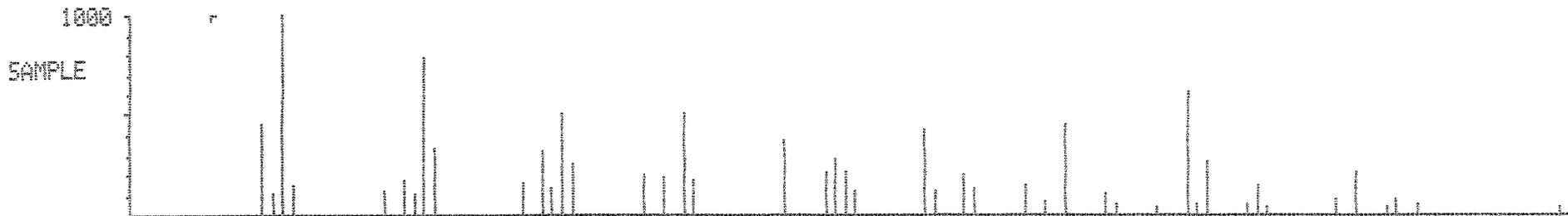
Rank In.	Name	Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	11555 5-DECEN-1-OL, (Z)-	1	C10.H20.O	156	55	218	943	219
2	10438 1,4-UNDECADIENE, (Z)-	2	C11.H20	152	67	339	928	351
3	2315 1,6-HEPTADIENE, 3-METHYL-	3	C8.H14	110	41	304	914	307
4	1093 PENTADIENAL, 2-METHYL-	4	C6.H8.O	96	96	143	912	143
5	6969 2-CYCLOHEXEN-1-ONE, 4-ETHYL-4-METHYL-	5	C9.H14.O	138	81	334	912	334

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	-----	-----	-----	-----	51652-47-2
2	-----	-----	-----	-----	55976-14-2
3	-----	-----	-----	-----	50871-05-1
4	-----	-----	-----	-----	3937-51-7
5	-----	-----	-----	-----	17429-32-2

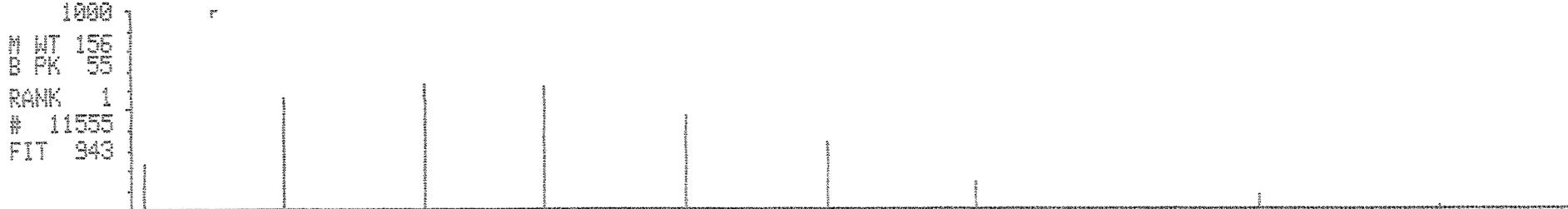
MID LIBRARY SEARCH (LIBRARY#)
08/30/93 11:57:00 + 10:08
SAMPLE: A5042456 JOB2646 S59252
CONDS.: AUTOSAMPLR 150Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z # 608
CALI: 15337Z # 3

BASE M/Z: 41
RIC: 35712.

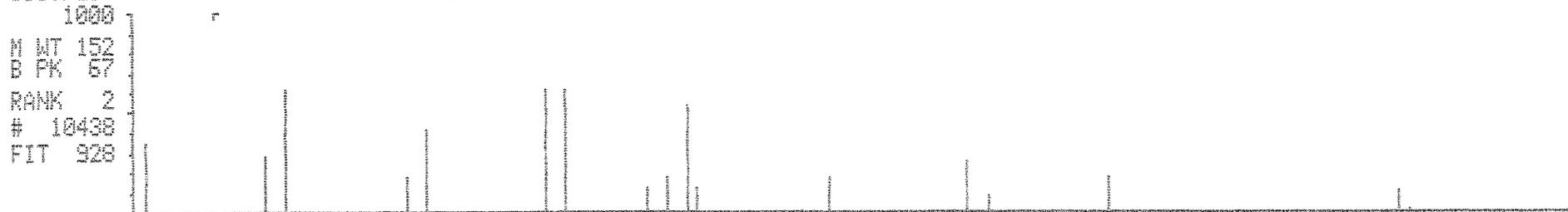


C10.H20.0 5-DECEN-1-OL, (Z)- CAS# 51652-47-2



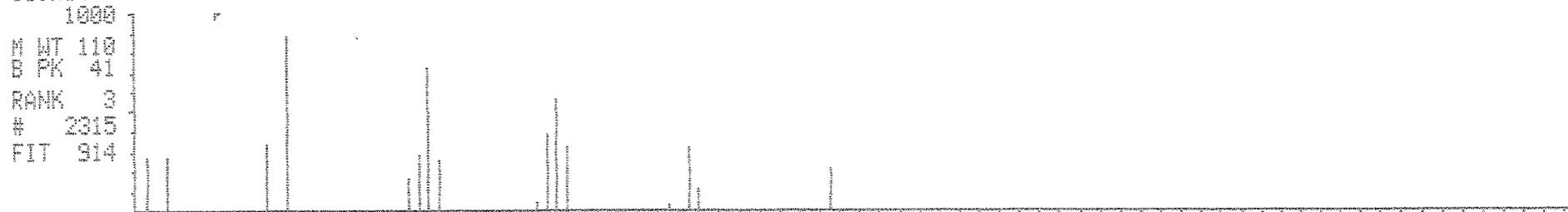
M WT 156
B PK 55
RANK 1
11555
FIT 943

C11.H20 1,4-UNDECADIENE, (Z)- CAS# 55976-14-2



M WT 152
B PK 67
RANK 2
10438
FIT 928

C8.H14 1,5-HEPTADIENE, 3-METHYL- CAS# 50671-05-1



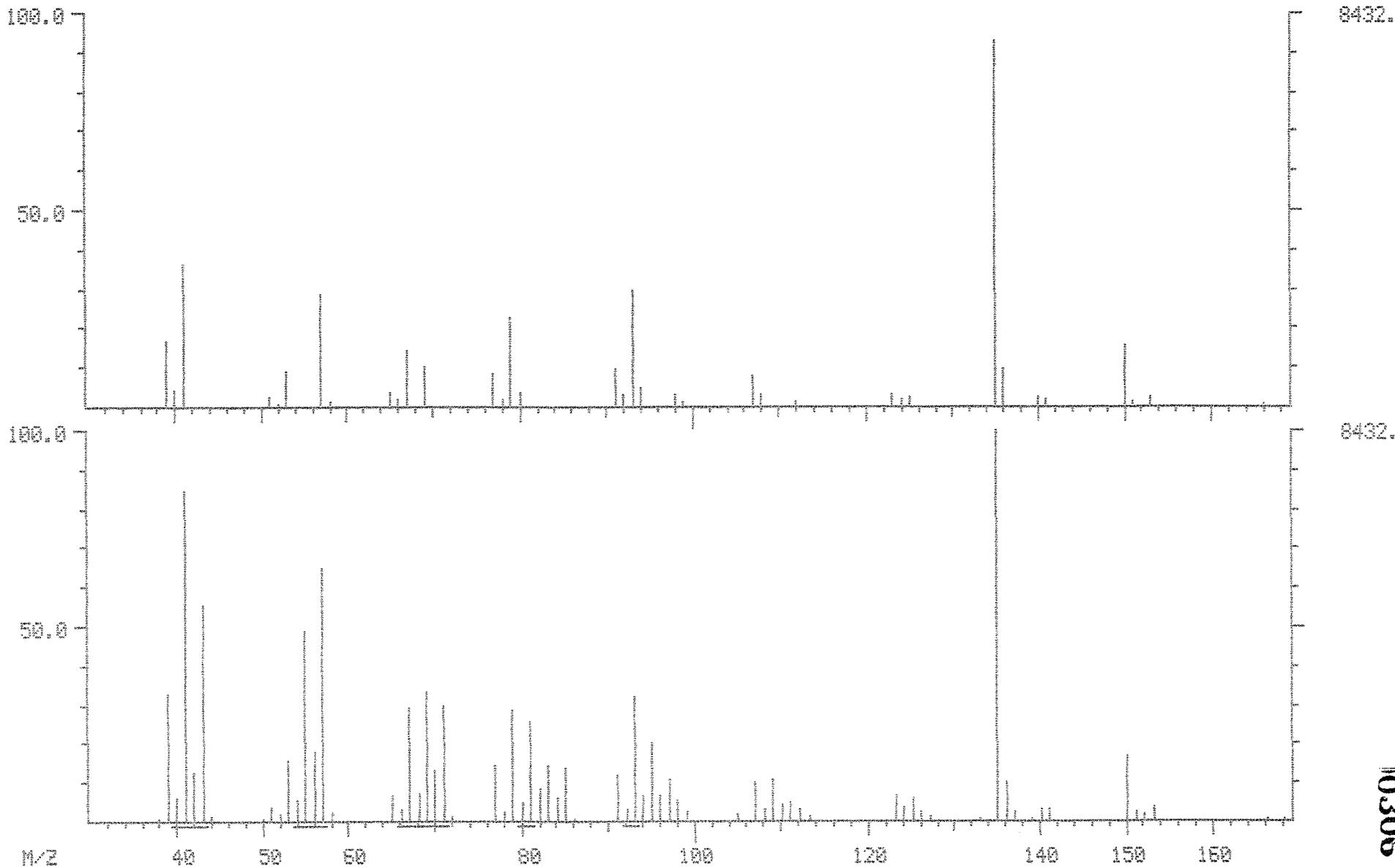
M WT 118
B PK 41
RANK 3
2315
FIT 914

M/Z 40 60 80 100 120 140 160

DUAL MASS SPECTRUM
08/30/93 11:57:00 + 10:12
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 96 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #612
CALI: 15337Z #3

BASE M/Z: 135/ 135
RIC: 30592./ 75904.



10306

Library Search Data: 15337Z # 612 Base m/z: 135
 08/30/93 11:57:00 + 10:12 Cali: 15337Z # 3 RIC: 30560.
 Sample: AS042456 JOB2646 SS9252
 Conds.: AUTOSAMPLR I50Z
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum FIT
 71 matched at least 7 of the 16 largest peaks in the unknown

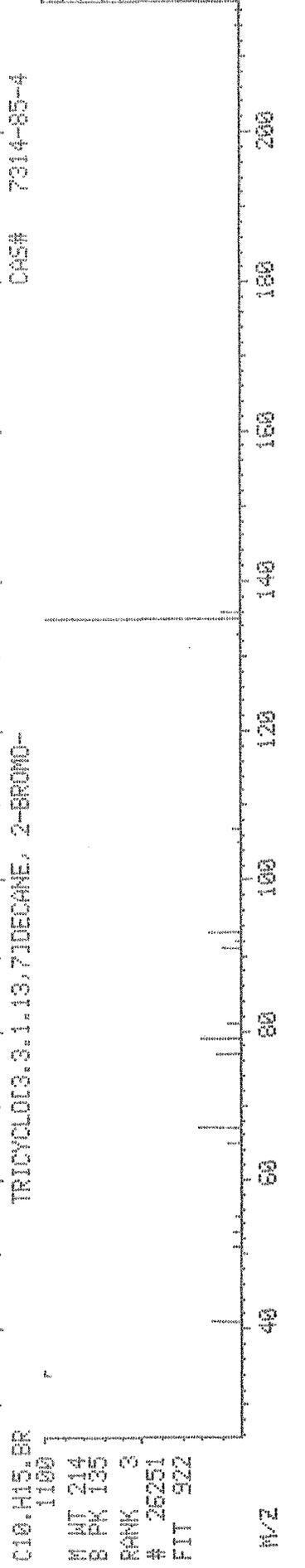
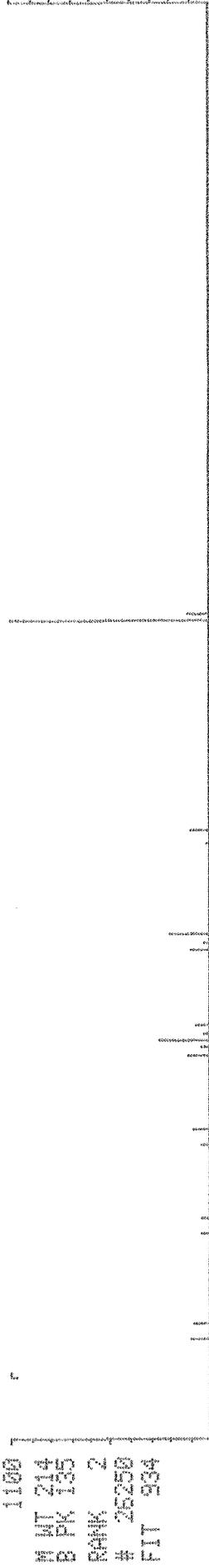
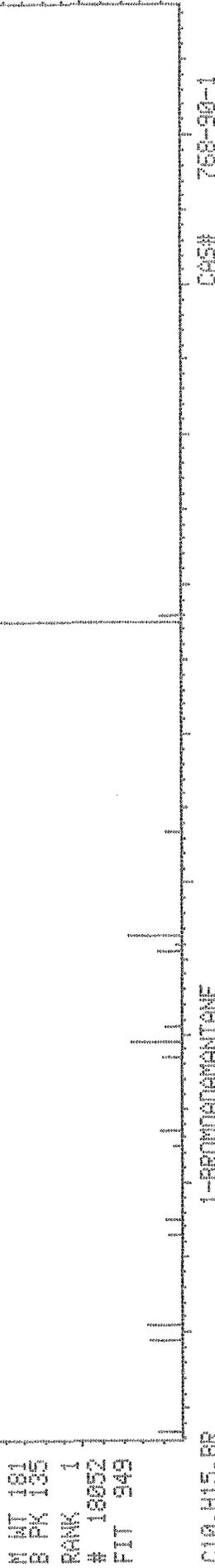
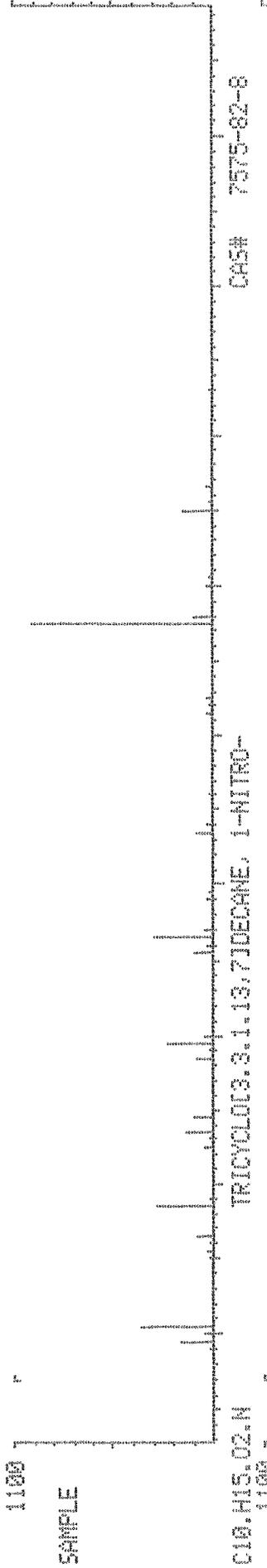
Rank In.	Name
1	18052 TRICYCLO[3.3.1.1 ^{3,7}]DECANE, 1-NITRO-
2	26250 1-BROMOADAMANTANE
3	26251 TRICYCLO[3.3.1.1 ^{3,7}]DECANE, 2-BROMO-
4	2156 CYCLOPROPANE, 1,1'-ETHENYLIDENE BIS-
5	2140 BICYCLO[4.1.0]HEPTANE, 7-METHYLENE-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C10. H15. O2. N	181	135	694	949	725
2	C10. H15. BR	214	135	696	934	723
3	C10. H15. BR	214	135	659	922	695
4	C8. H12	108	39	296	921	296
5	C8. H12	108	79	297	916	304

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	----	----	----	----	7575-82-8
2	----	----	----	----	768-90-1
3	----	----	----	----	7314-85-4
4	----	----	----	----	822-93-5
5	----	----	----	----	54211-14-2

DATA: 15337Z # 612 BASE M/Z: 135
CALI: 15337Z # 3 RIC: 30550.

MID LIBRARY SEARCH (LIBRARYNS)
08/30/93 11:57:00 + 10:12
SAMPLE: A5042456 J082646 559252
CONDS.: AUTOSAMPLR 150Z
ENHANCED (S 15B 2N 0T)



1100

SAMPLE

C10.H15.02.N

1100
M WT 181
B PK 135
RANK 1
18852
FIT 949

C10.H15.02.N

1100
M WT 214
B PK 135
RANK 2
26250
FIT 934

C10.H15.02.N

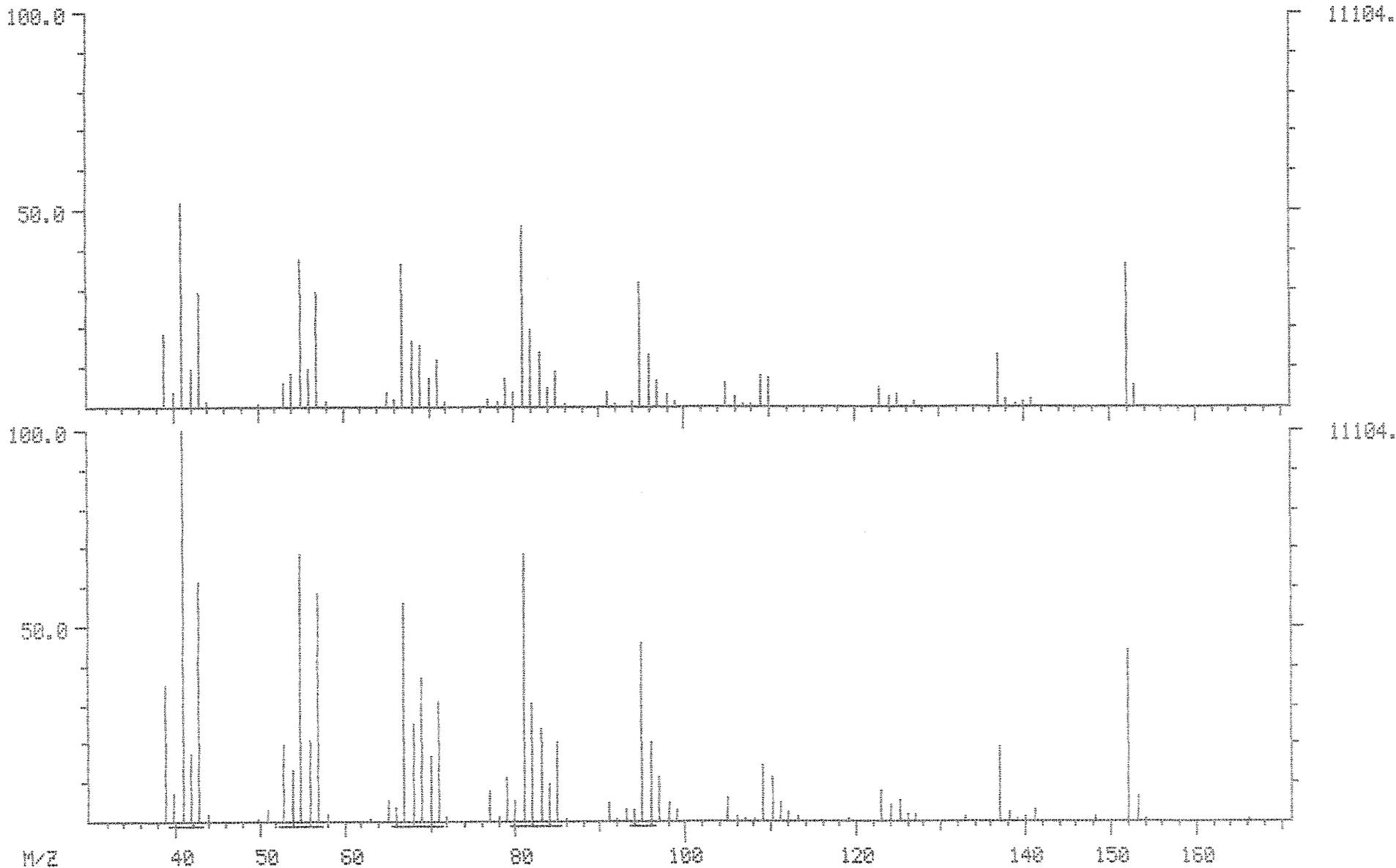
1100
M WT 214
B PK 135
RANK 3
26251
FIT 922

M/Z

DUAL MASS SPECTRUM
08/30/93 11:57:00 + 10:24
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 98 DEG. C
ENHANCED (S 158 2N 0T)

DATA: 15337Z #624
CALI: 15337Z #3

BASE M/Z: 41/ 41
RIC: 52656./ 111232.



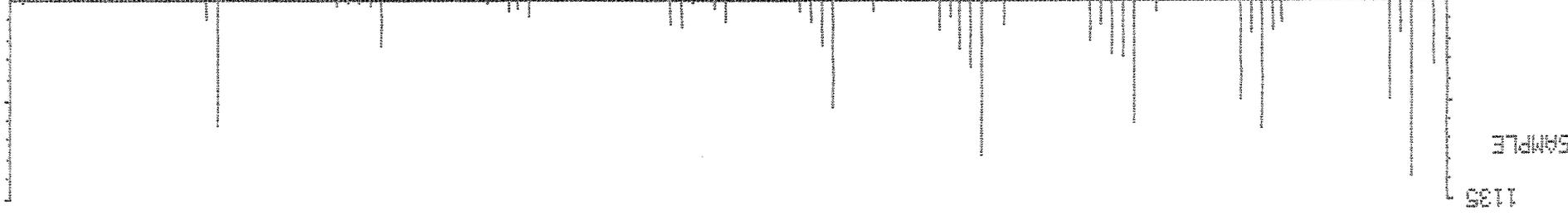
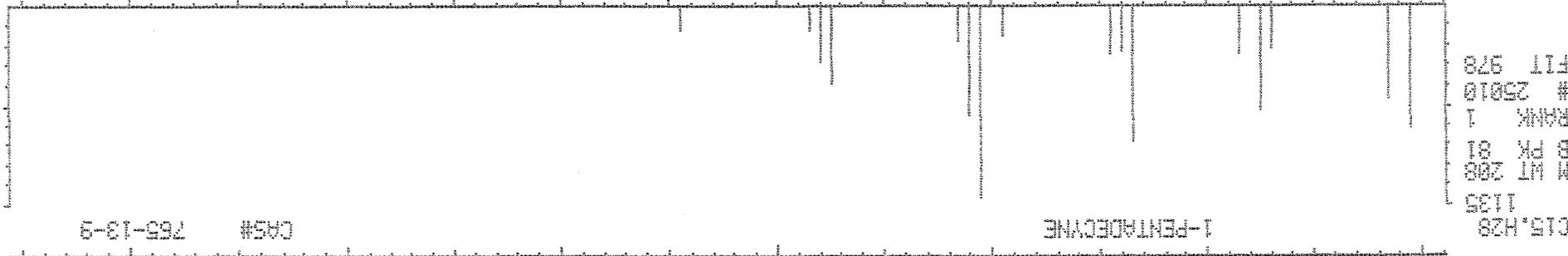
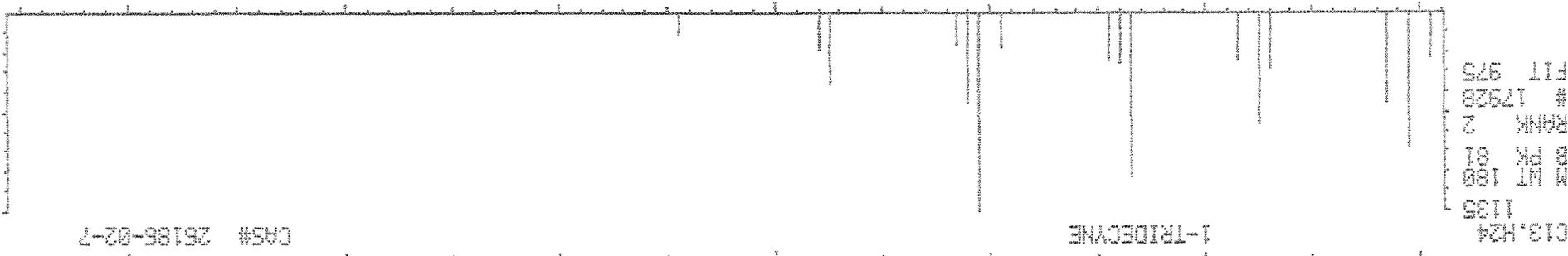
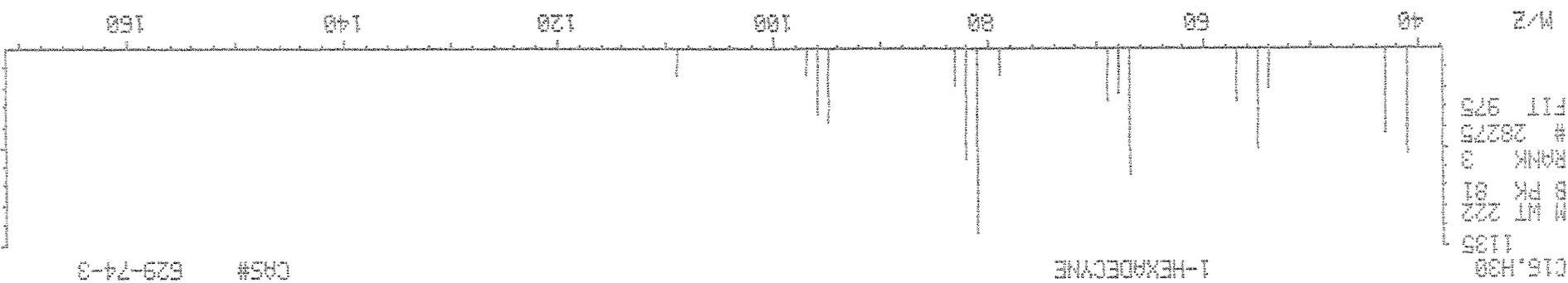
Library Search Data: 15337Z # 624 Base m/z: 41
 08/30/93 11:57:00 + 10:24 Cali: 15337Z # 3 RIC: 60544.
 Sample: AS042456 JOB2646 SS9252
 Conds.: AUTOSAMPLR 150Z
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
 113 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name
1	25010 1-PENTADECYNE
2	17928 1-TRIDECYNE
3	28275 1-HEXADECYNE
4	31174 1-HEPTADECYNE
5	34009 1-OCTADECYNE

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C15. H28	208	81	578	978	578
2	C13. H24	180	81	578	975	578
3	C16. H30	222	81	576	975	576
4	C17. H32	236	81	589	973	589
5	C18. H34	250	81	594	972	596

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	-----	-----	-----	-----	765-13-9
2	-----	-----	-----	-----	26186-02-7
3	-----	-----	-----	-----	629-74-3
4	-----	-----	-----	-----	26186-00-5
5	-----	-----	-----	-----	629-89-0

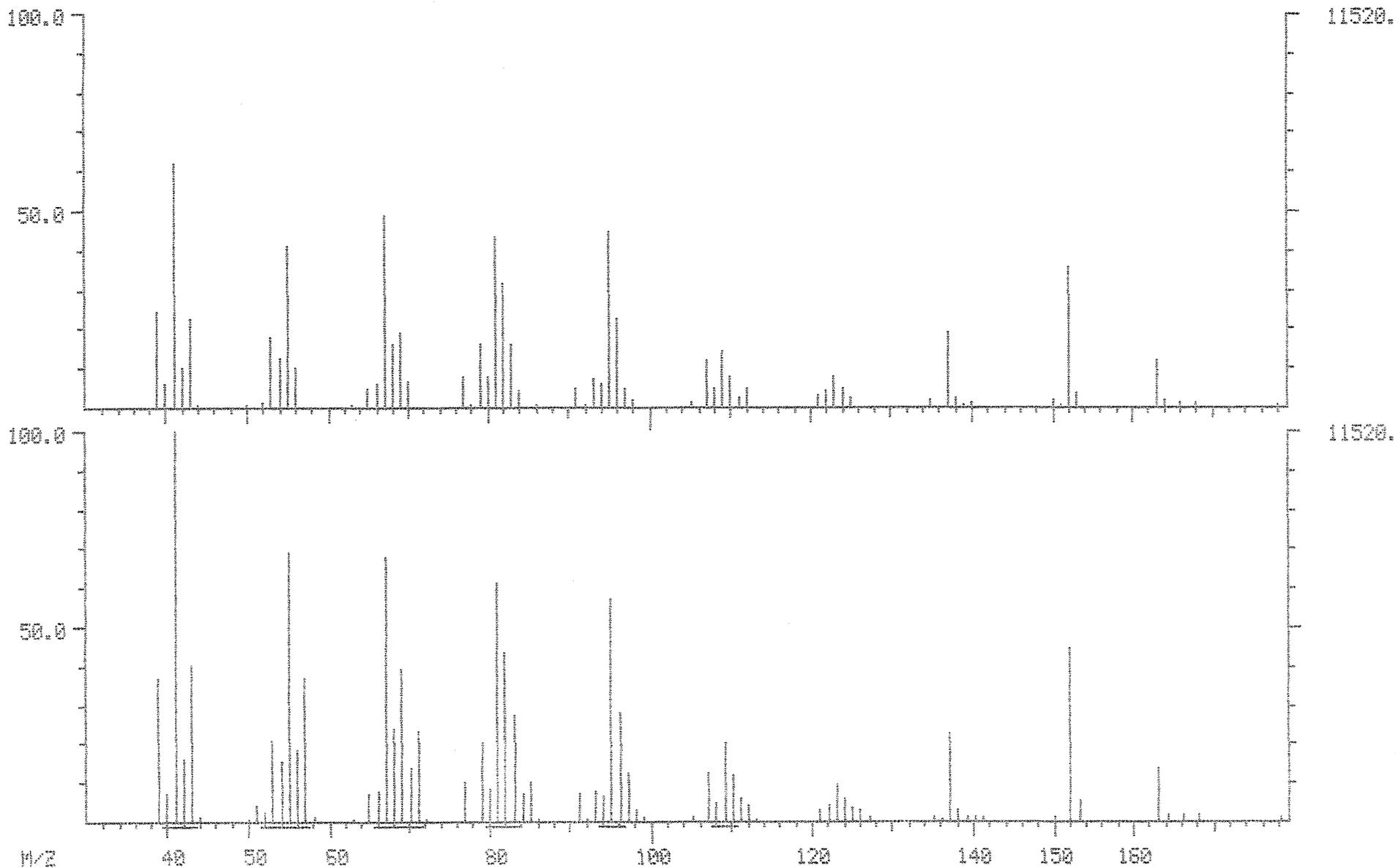


MID LIBRARY SEARCH (LIBRARYB) DATA: 15337Z # 624
 08/30/93 11:57:00 + 10:24 CALL: 15337Z # 3
 SAMPLE: A5042456 J082646 559252 RICI: 60544
 COND.: AUTOSAMPLR 1502 BASE M/Z: 41
 ENHANCED (S 158 2M 01)

DUAL MASS SPECTRUM
08/30/93 11:57:00 + 10:43
SAMPLE: A5042456 JOB2646 S59252
CONDS.: AUTOSAMPLR I502
TEMP: 101 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #643
CALI: 15337Z #3

BASE M/Z: 41/ 41
RIC: 78720./ 122112.



10312

Library Search Data: 15337Z # 643 Base m/z: 41
 08/30/93 11:57:00 + 10:43 Cali: 15337Z # 3 RIC: 75776.
 Sample: AS042456 JOB2646 S59252
 Conds.: AUTOSAMPLR I50Z
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
 79 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name
1	7096 BICYCLO[3.1.1]HEPTANE, 2,6,6-TRIMETHYL-
2	4274 4,5-NONADIENE
3	18942 8-DODECENOL
4	7048 2-DECYNE
5	18957 7-DODECENOL

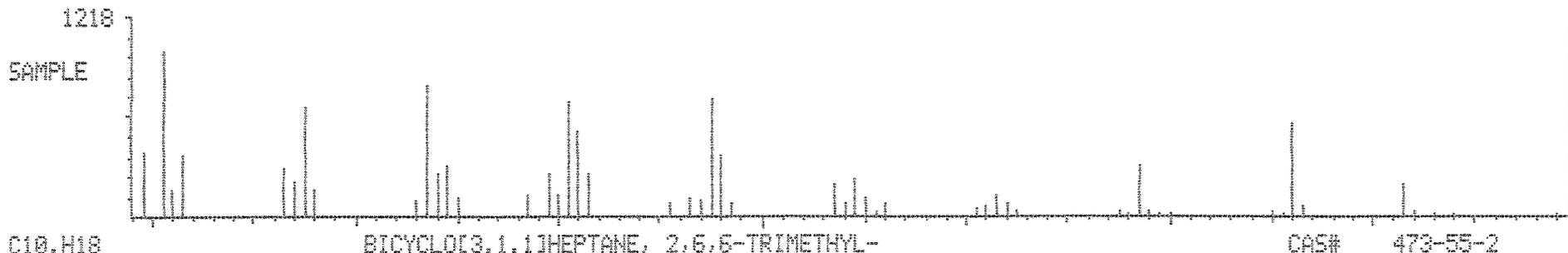
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C10.H18	138	55	543	970	543
2	C9.H16	124	67	479	958	487
3	C12.H24.O	184	55	524	957	524
4	C10.H18	138	67	523	952	523
5	C12.H24.O	184	55	502	947	512

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	-----	-----	-----	-----	473-55-2
2	-----	-----	-----	-----	821-74-9
3	-----	-----	-----	-----	42513-42-8
4	-----	-----	-----	-----	2384-70-5
5	-----	-----	-----	-----	16695-40-2

MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 10:43
SAMPLE: A5042456 JOB2646 S59252
COMDS.: AUTOSAMPLR I502
ENHANCED (S 15B 2M 0T)

DATA: 15337Z # 643
CALI: 15337Z # 3

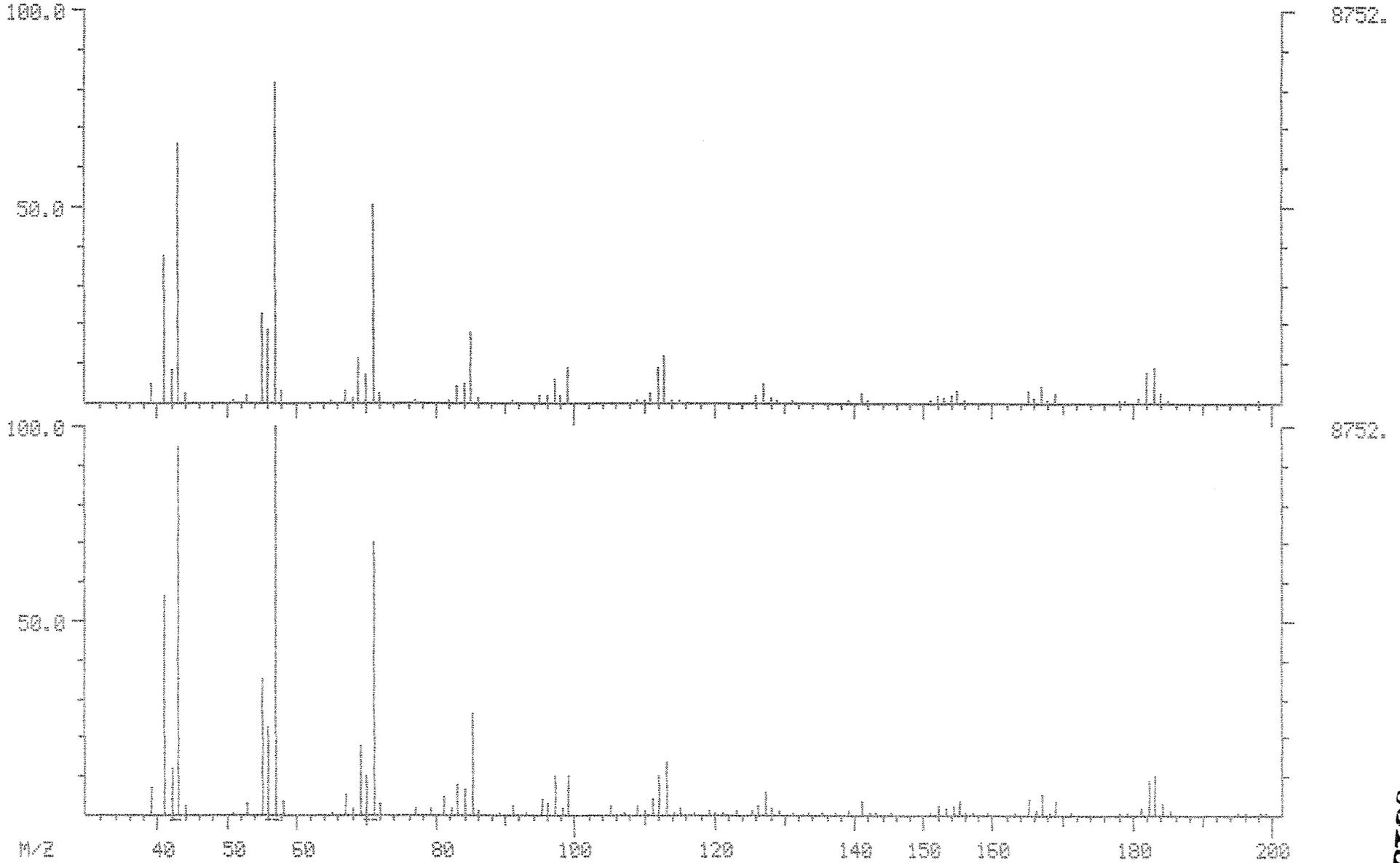
BASE M/Z: 41
RIC: 75776.



DUAL MASS SPECTRUM
08/30/93 11:57:00 + 20:33
SAMPLE: AS042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 179 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #1233
CALI: 15337Z #3

BASE M/Z: 57/ 57
RIC: 39590./ 57280.



Library Search Data: 15337Z #1233 Base m/z: 57
 08/30/93 11:57:00 + 20:33 Cali: 15337Z # 3 RIC: 39360.
 Sample: A5042456 JOB2646 SS9252
 Conds.: AUTOSAMPLR 150Z
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
 272 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 20604 3-BROMOCTANE
 2 15355 OCTANE, 3-ETHYL-2,7-DIMETHYL-
 3 15360 DECANE, 3,4-DIMETHYL-
 4 11599 OCTANE, 2,3,7-TRIMETHYL-
 5 26000 TETRADECANE, 3-METHYL-

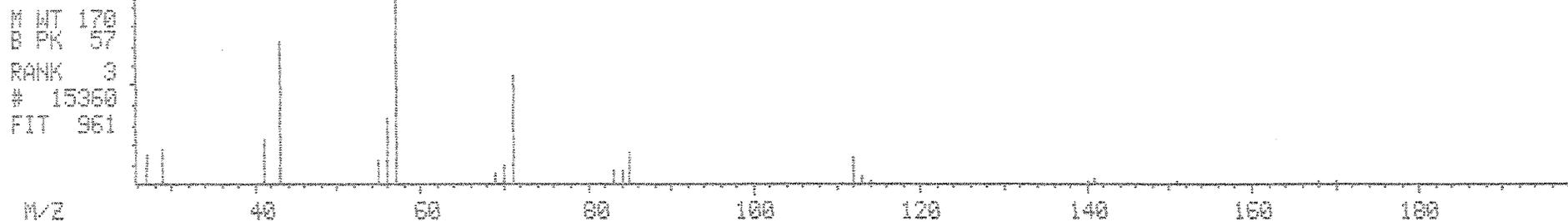
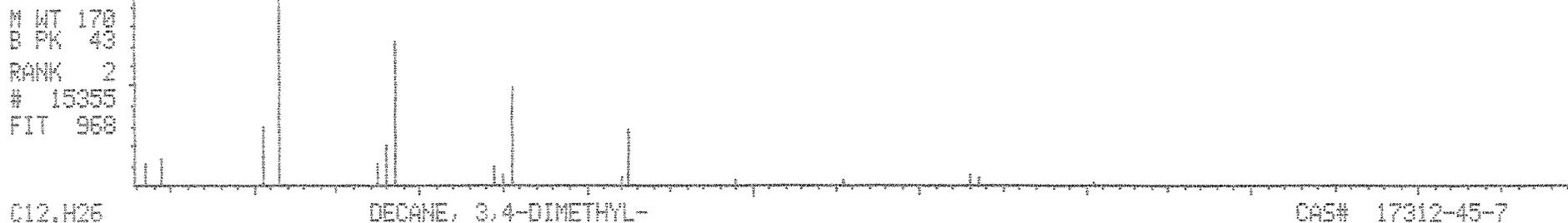
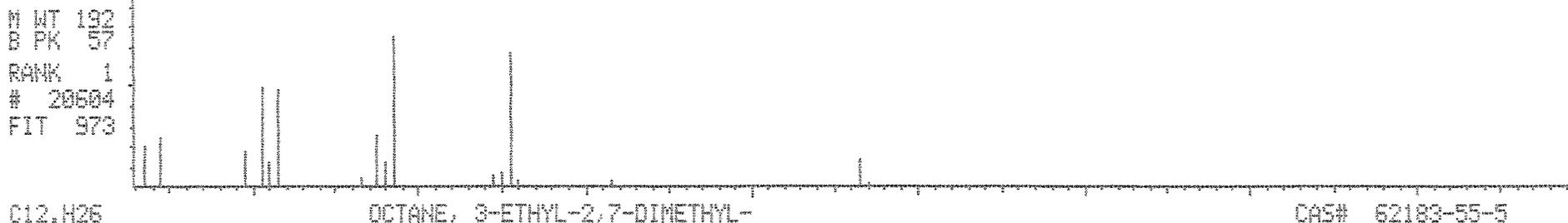
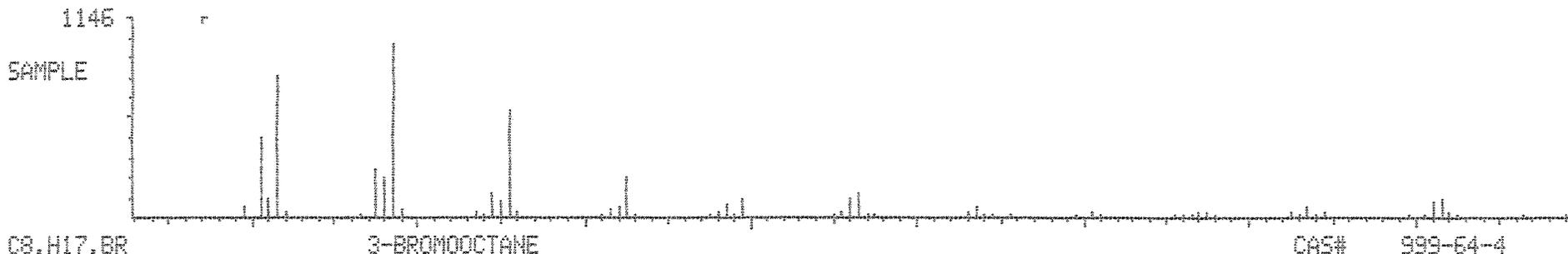
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C8. H17. BR	192	57	542	973	542
2	C12. H26	170	43	567	968	567
3	C12. H26	170	57	610	961	613
4	C11. H24	156	57	600	961	600
5	C15. H32	212	57	749	960	760

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	-----	-----	-----	-----	999-64-4
2	-----	-----	-----	-----	62183-55-5
3	-----	-----	-----	-----	17312-45-7
4	-----	-----	-----	-----	62016-34-6
5	-----	-----	-----	-----	18435-22-8

MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 20:33
SAMPLE: A5042456 JOB2646 S59252
CONDS.: AUTOSAMPLR 150Z
ENHANCED (S 15B 2N 0T)

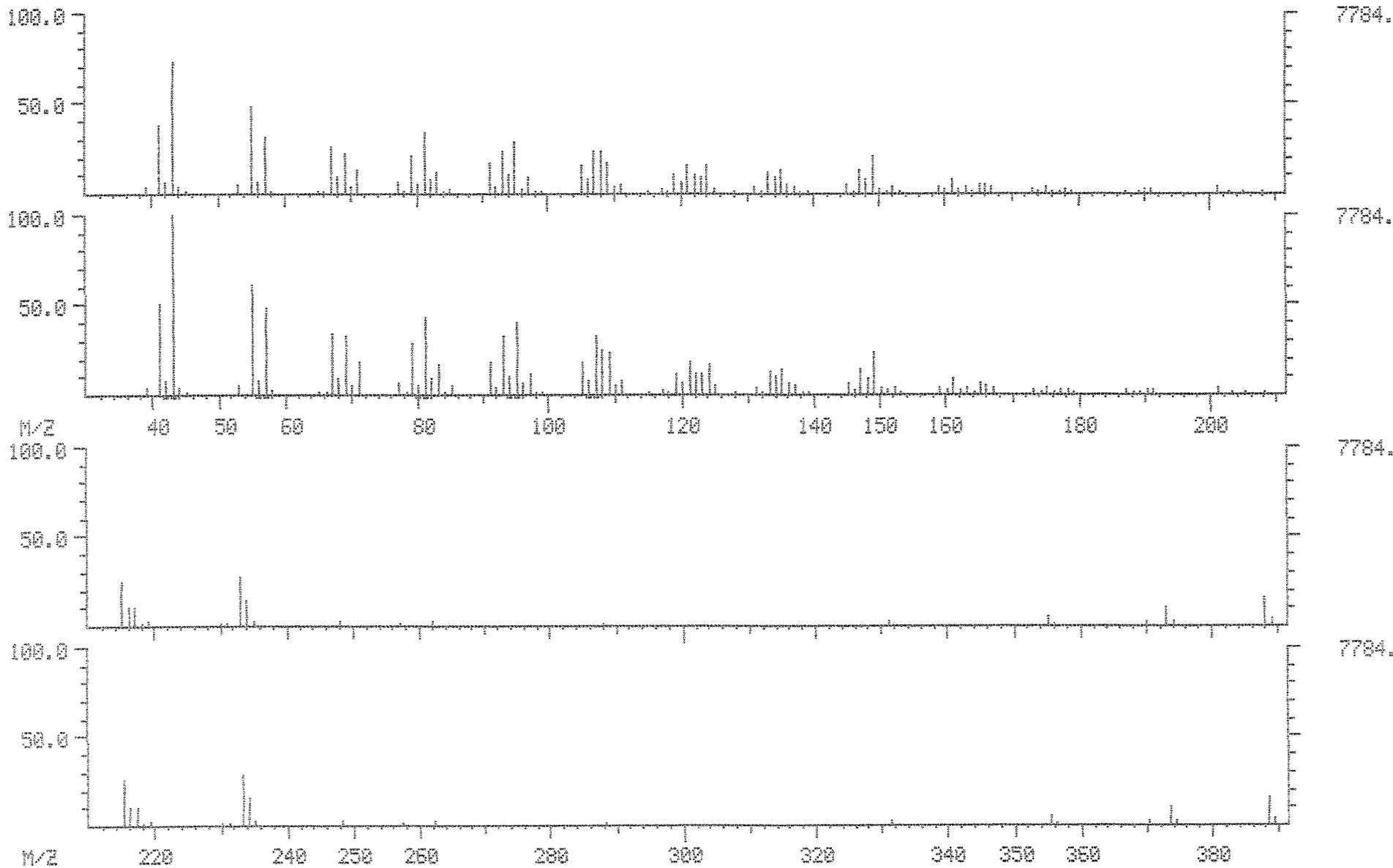
DATA: 15337Z #1233
CALI: 15337Z # 3

BASE M/Z: 57
RIC: 39360.



DUAL MASS SPECTRUM
08/30/93 11:57:00 + 35:43
SAMPLE: AS042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 299 DEG. C
ENHANCED (S 15B 2N 0T)

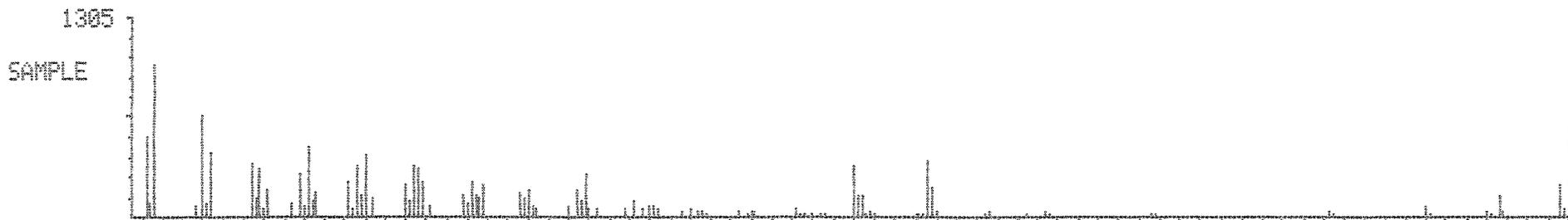
DATA: 15337Z #2143 BASE M/Z: 43/ 43
CALI: 15337Z #3 RIC: 75776./ 93312.



MID LIBRARY SEARCH (LIBRARY#)
08/30/93 11:57:00 + 35:43
SAMPLE: AS042456 JOB2646 559252
CONDS.: AUTOSAMPLR 150Z
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #2143
CALI: 15337Z # 3

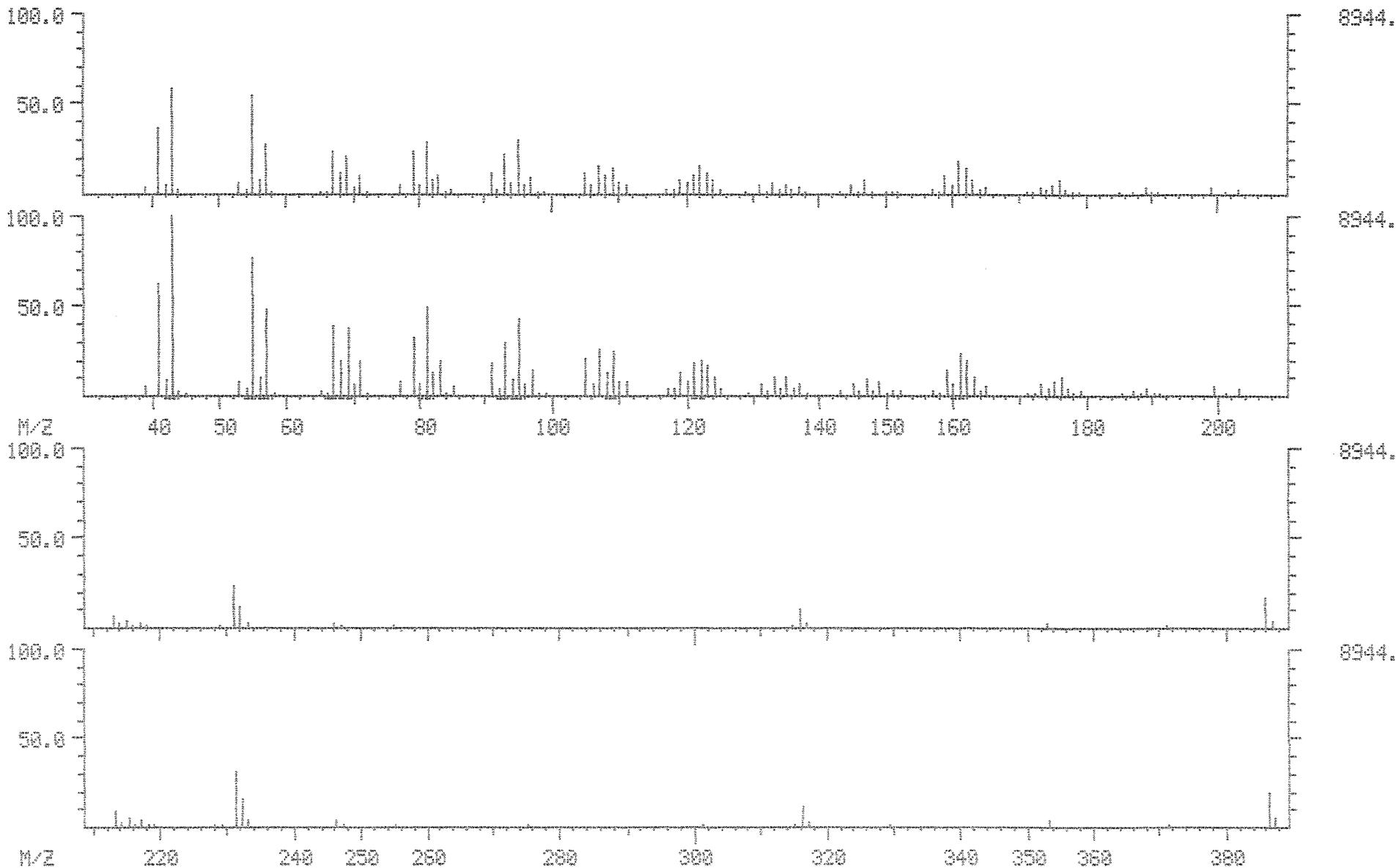
BASE M/Z: 43
RIC: 71040.



DUAL MASS SPECTRUM
08/30/93 11:57:00 + 35:02
SAMPLE: A5042456 JOB2646 559252
CONDS.: AUTOSAMPLR I50Z
TEMP: 300 DEG. C
ENHANCED (S 15B 2M 0T)

DATA: 15337Z #2162
CALI: 15337Z #3

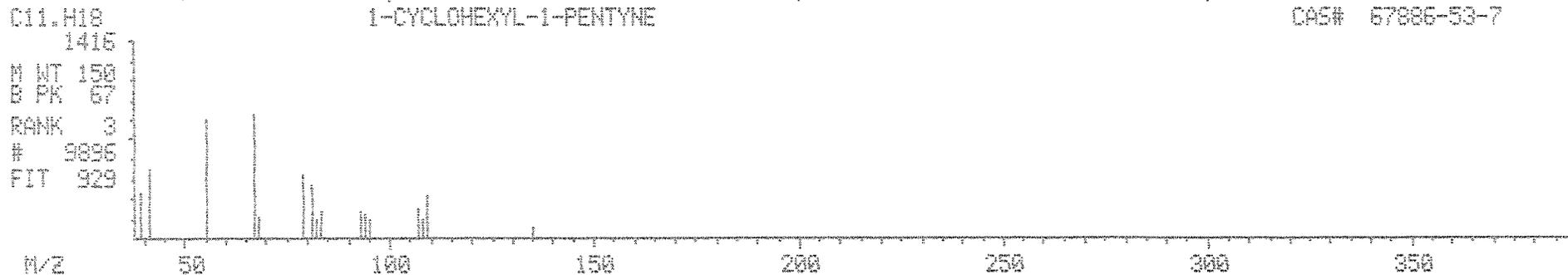
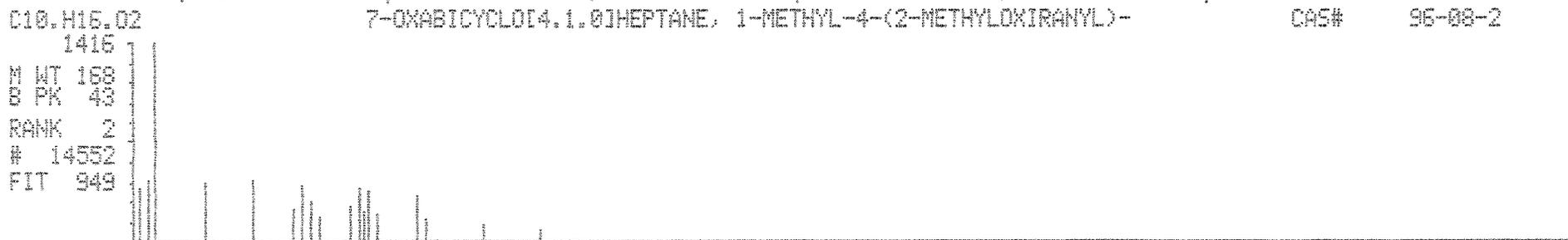
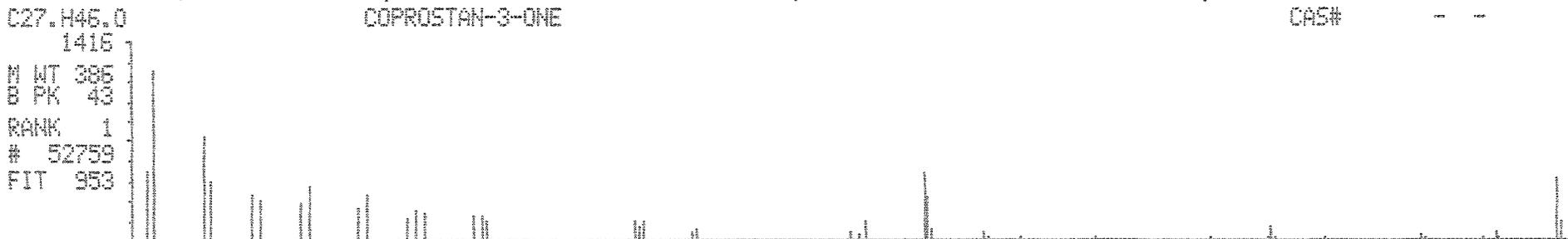
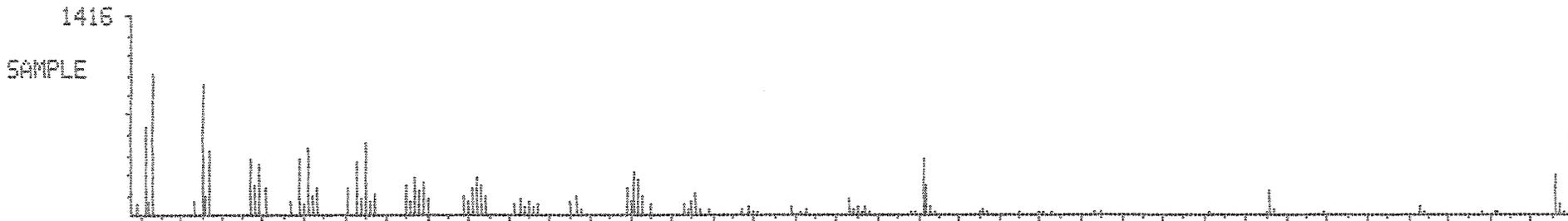
BASE M/Z: 43/ 43
RIC: 76800./ 114560.



MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:57:00 + 36:02
SAMPLE: A5042456 JOB2546 559252
CONDS.: AUTOSAMPLR 1502
ENHANCED (S 15B 2N 0T)

DATA: 15337Z #2162
CALI: 15337Z # 3

BASE M/Z: 43
RIC: 71424.



M/Z 50 100 150 200 250 300 350

10323

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SP1SSW

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393

Matrix: (soil/water) SOIL Lab Sample ID: AS042455

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 15336Z

Level: (low/med) LOW Date Received: 08/17/93

% Moisture: 2 decanted: (Y/N) N Date Extracted: 08/19/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl) Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy) Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	810	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	810	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	810	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP1SSW

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393

Matrix: (soil/water) SOIL Lab Sample ID: AS042455

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 15336Z

Level: (low/med) LOW Date Received: 08/17/93

% Moisture: 2 decanted: (Y/N) N Date Extracted: 08/19/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	810	U
100-02-7	4-Nitrophenol	810	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	810	U
534-52-1	4,6-Dinitro-2-Methylphenol	810	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	810	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo (a) Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-Ethylhexyl) Phthalate	510	
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo (b) Fluoranthene	330	U
207-08-9	Benzo (k) Fluoranthene	330	U
50-32-8	Benzo (a) Pyrene	330	U
193-39-5	Indeno (1,2,3-cd) Pyrene	330	U
53-70-3	Dibenz (a,h) Anthracene	330	U
191-24-2	Benzo (g,h,i) Perylene	330	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SP1SSW

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RA093 SAS No.: _____ SDG No.: 81393

Matrix: (soil/water) SOIL Lab Sample ID: AS042455

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 15336Z

Level: (low/med) LOW Date Received: 08/17/93

% Moisture: 2 decanted: (Y/N) N Date Extracted: 08/19/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.05	1300	J
2.	OXYGENATED COMPOUND	9.32	100	J
3.	UNKNOWN	24.03	90	J
4.	UNKNOWN	35.42	180	J
5.	UNKNOWN	36.17	180	J

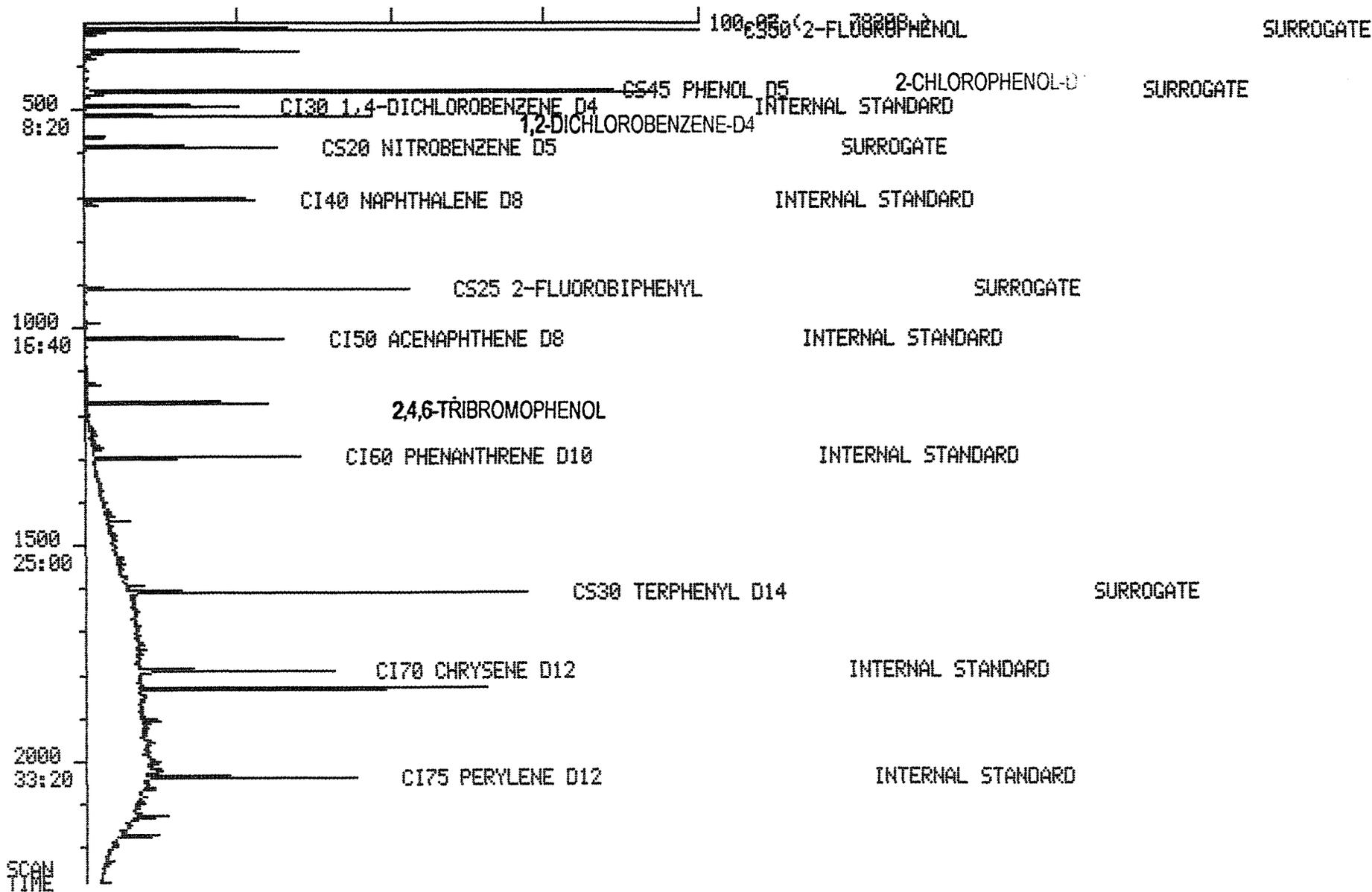
DATA FROM FILE: 15336Z

SCANS 301 TO 2290 ACQUIRED: 08/30/93 11:10:00

CALI: 15336Z #3

SAMPLE: AS042455 JOB2646 S59251

COND5.: AUTOSAMPLR I50Z



10327

Quantitation Report File: 15336Z

Data: 15336Z.TI

08/30/93 11:10:00

Sample: A8042455 JOB2646 SS9251

Conds.: AUTOSAMPLR I50Z

Formula:

Instrument: I50Z

Weight: 0.000

Submitted by:

Analyst: SMW

Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLORO BENZENE D4	INTERNAL STANDARD
2	CI40 NAPHTHALENE D8	INTERNAL STANDARD
3	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
4	CI60 PHENANTHRENE D10	INTERNAL STANDARD
5	CI70 CHRYSENE D12	INTERNAL STANDARD
6	CI75 PERYLENE D12	INTERNAL STANDARD
7	CS75 1,2-DICHLORO BENZENE-D4	SURROGATE
8	CS20 NITROBENZENE D5	SURROGATE
9	CS25 2-FLUOROBIPHENYL	SURROGATE
10	CS30 TERPHENYL D14	SURROGATE
11	CS45 PHENOL D5	SURROGATE
12	CS50 2-FLUOROPHENOL	SURROGATE
13	CS70 2-CHLOROPHENOL-D4	SURROGATE
14	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE
15	C315 PHENOL	
16	C325 BIS(2-CHLOROETHYL) ETHER	
17	C330 2-CHLOROPHENOL	
18	C335 1,3-DICHLORO BENZENE	
19	C340 1,4-DICHLORO BENZENE	
20	C350 1,2-DICHLORO BENZENE	
21	C355 2-METHYLPHENOL	
22	C360 2,2'-OXYBIS(1-CHLOROPROPANE)	
23	C365 4-METHYLPHENOL	
24	C370 N-NITROSD-DI-N-PROPYLAMINE	
25	C375 HEXACHLOROETHANE	
26	C410 NITROBENZENE	
27	C415 ISOPHORONE	
28	C420 2-NITROPHENOL	
29	C425 2,4-DIMETHYLPHENOL	
30	C435 BIS(2-CHLOROETHOXY)METHANE	
31	C440 2,4-DICHLOROPHENOL	
32	C445 1,2,4-TRICHLORO BENZENE	
33	C450 NAPHTHALENE	
34	C455 4-CHLOROANILINE	
35	C460 HEXACHLORO BUTADIENE	
36	C465 4-CHLORO-3-METHYLPHENOL	
37	C470 2-METHYLNAPHTHALENE	
38	C510 HEXACHLORO CYCLOPENTADIENE	
39	C515 2,4,6-TRICHLOROPHENOL	
40	C520 2,4,5-TRICHLOROPHENOL	
41	C525 2-CHLORONAPHTHALENE	
42	C530 2-NITROANILINE	
43	C535 DIMETHYL PHTHALATE	
44	C540 ACENAPHTHYLENE	
45	C542 2,6-DINITROTOLUENE	
46	C545 3-NITROANILINE	
47	C550 ACENAPHTHENE	

No Name
 48 C555 2,4-DINITROPHENOL
 49 C560 4-NITROPHENOL
 50 C565 DIBENZOFURAN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	489	8:09	1	1.000	A BB	8340.	40.000 NG	3.87
2	136	703	11:43	2	1.000	A BB	28532.	40.000 NG	3.87
3	164	1022	17:02	3	1.000	A BB	18124.	40.000 NG	3.87
4	188	1295	21:35	4	1.000	A BB	32810.	40.000 NG	3.87
5	240	1788	29:48	5	1.000	A BB	30802.	40.000 NG	3.87
6	264	2035	33:55	6	1.000	A BB	31122.	40.000 NG	3.87
7	152	512	8:32	1	1.047	A BB	14092.	73.252 NG	7.10
8	82	583	9:43	2	0.829	A BB	25558.	76.896 NG	7.45
9	172	909	15:09	3	0.889	A BB	40434.	73.774 NG	7.15
10	244	1607	26:47	5	0.899	A BB	54565.	78.415 NG	7.60
11	99	454	7:34	1	0.928	A BB	48762.	117.013 NG	11.33
12	112	313	5:13	1	0.640	A BB	38874.	128.851 NG	12.48
13	132	457	7:37	1	0.935	A BB	41278.	119.941 NG	11.62
14	330	1170	19:30	3	1.145	A BB	6512.	94.515 NG	9.16
15	NOT	FOUND							
16	NOT	FOUND							
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	NOT	FOUND							
30	NOT	FOUND							
31	NOT	FOUND							
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							
42	NOT	FOUND							
43	NOT	FOUND							
44	NOT	FOUND							
45	NOT	FOUND							
46	NOT	FOUND							
47	NOT	FOUND							
48	NOT	FOUND							
49	NOT	FOUND							
50	NOT	FOUND							

5/11/16
 4/12/16

Data: 15336Z.TI
 08/30/93 11:10:00

Sample: AS042455 JOB2646 SS9251
 Conds.: AUTOSAMPLR I50Z

Formula: Instrument: I50Z Weight: 0.000
 Submitted by: Analyst: SMW Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
 Resp. fac. from Library Entry

- No Name
- 51 C570 2,4-DINITROTOLUENE
- 52 C580 DIETHYL PHTHALATE
- 53 C585 4-CHLOROPHENYL PHENYL ETHER
- 54 C590 FLUORENE
- 55 C595 4-NITROANILINE
- 56 C610 4,6-DINITRO-2-METHYL PHENOL
- 57 C615 N-NITROSODIPHENYLAMINE
- 58 C625 4-BROMOPHENYL PHENYL ETHER
- 59 C630 HEXACHLOROBENZENE
- 60 C635 PENTACHLOROPHENOL
- 61 C640 PHENANTHRENE
- 62 C645 ANTHRACENE
- 63 C647 CARBAZOLE
- 64 C650 DI-N-BUTYL PHTHALATE
- 65 C655 FLUORANTHENE
- 66 C715 PYRENE
- 67 C720 BUTYLBENZYLPHTHALATE
- 68 C725 3,3' DICHLOROBENZIDINE
- 69 C730 BENZO(A)ANTHRACENE
- 70 C735 CHRYSENE
- 71 C740 BIS(2-ETHYLHEXYL)PHTHALATE
- 72 C760 DI-N-OCTYLPHTHALATE
- 73 C765 BENZO(B)FLUORANTHENE
- 74 C770 BENZO(K)FLUORANTHENE
- 75 C775 BENZO(A)PYRENE
- 76 C780 INDENO(1,2,3-CD)PYRENE
- 77 C785 DIBENZO(A,H)ANTHRACENE
- 78 C790 BENZO(G,H,I)PERYLENE
- 79 C705 N-NITROSODIMETHYLAMINE
- 80 C320 ANILINE
- 81 C710 BENZIDINE
- 82 C345 BENZYL ALCOHOL
- 83 C430 BENZOIC ACID
- 84 C620 1,2, DIPHENYLHYDRAZINE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								
58	NOT FOUND								
59	NOT FOUND								

SMW
 9/14/93

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
60	NOT	FOUND							
61	NOT	FOUND							
62	NOT	FOUND							
63	NOT	FOUND							
64	NOT	FOUND							
65	NOT	FOUND							
66	NOT	FOUND							
67	NOT	FOUND							
68	NOT	FOUND							
69	NOT	FOUND							
70	NOT	FOUND							
71	149	1829	30:29	5	1.023	A BB	24475.	30.123 NG	2.92
72	NOT	FOUND							
73	NOT	FOUND							
74	NOT	FOUND							
75	NOT	FOUND							
76	NOT	FOUND							
77	NOT	FOUND							
78	NOT	FOUND							
79	NOT	FOUND							
80	NOT	FOUND							
81	NOT	FOUND							
82	NOT	FOUND							
83	NOT	FOUND							
84	NOT	FOUND							

SW
8-30-13.

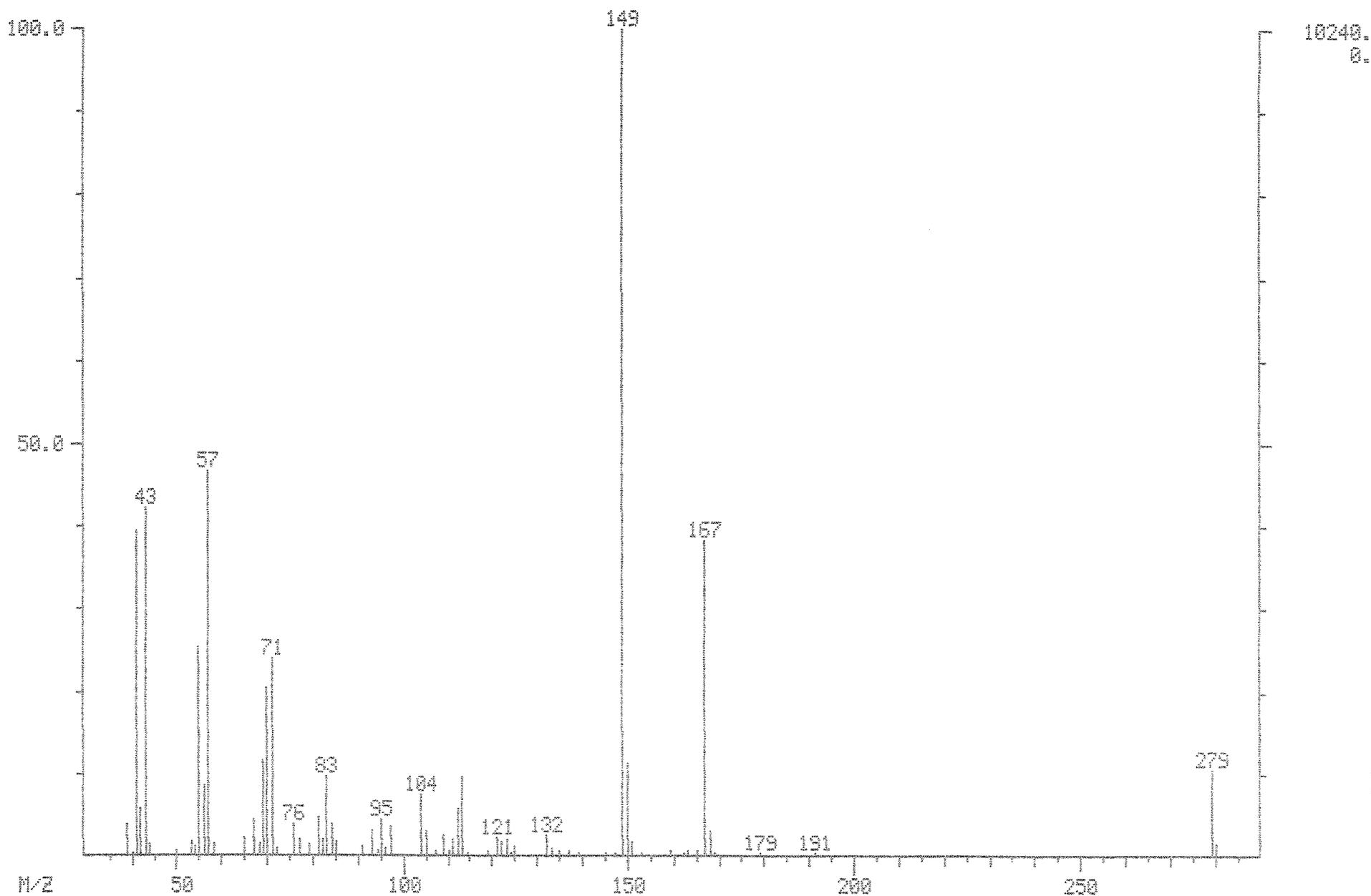
MTM
9/19/13

MASS SPECTRUM
08/30/93 11:10:00 + 30:29
SAMPLE: A5042455 JOB2646 559251
CONDS.: AUTOSAMPLR 150Z
TEMP: 259 DEG. C

DATA: 15336Z #1829
CALI: 15336Z #3

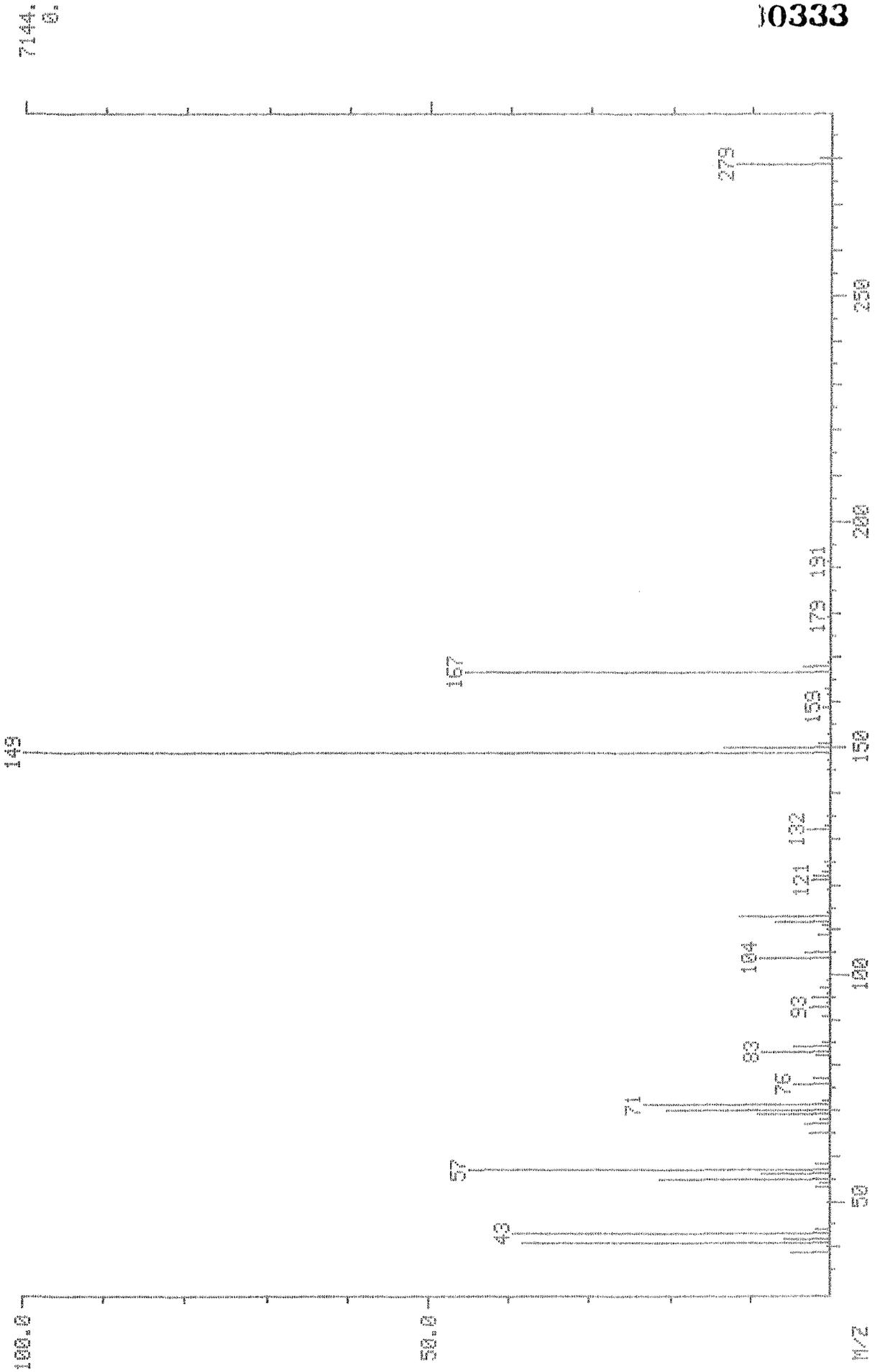
BASE M/Z: 149
RIC: 51264.

NAME: C740 BIS(2-ETHYLHEXYL)PHTHALATE



10332

MASS SPECTRUM DATA: 153352 #1929 BASE M/Z: 149
08/30/93 11:10:00 + 30:29 CALL: 153352 #3
SAMPLE: AS042455 JOB2646 559251
CONDS.: AUTOSAMPLR 150Z
TEMP: 259 DEG. C
ENHANCED (S 158 2N 0T)NAME: C740 BIS(2-ETHYLHEXYL)PHTHALATE

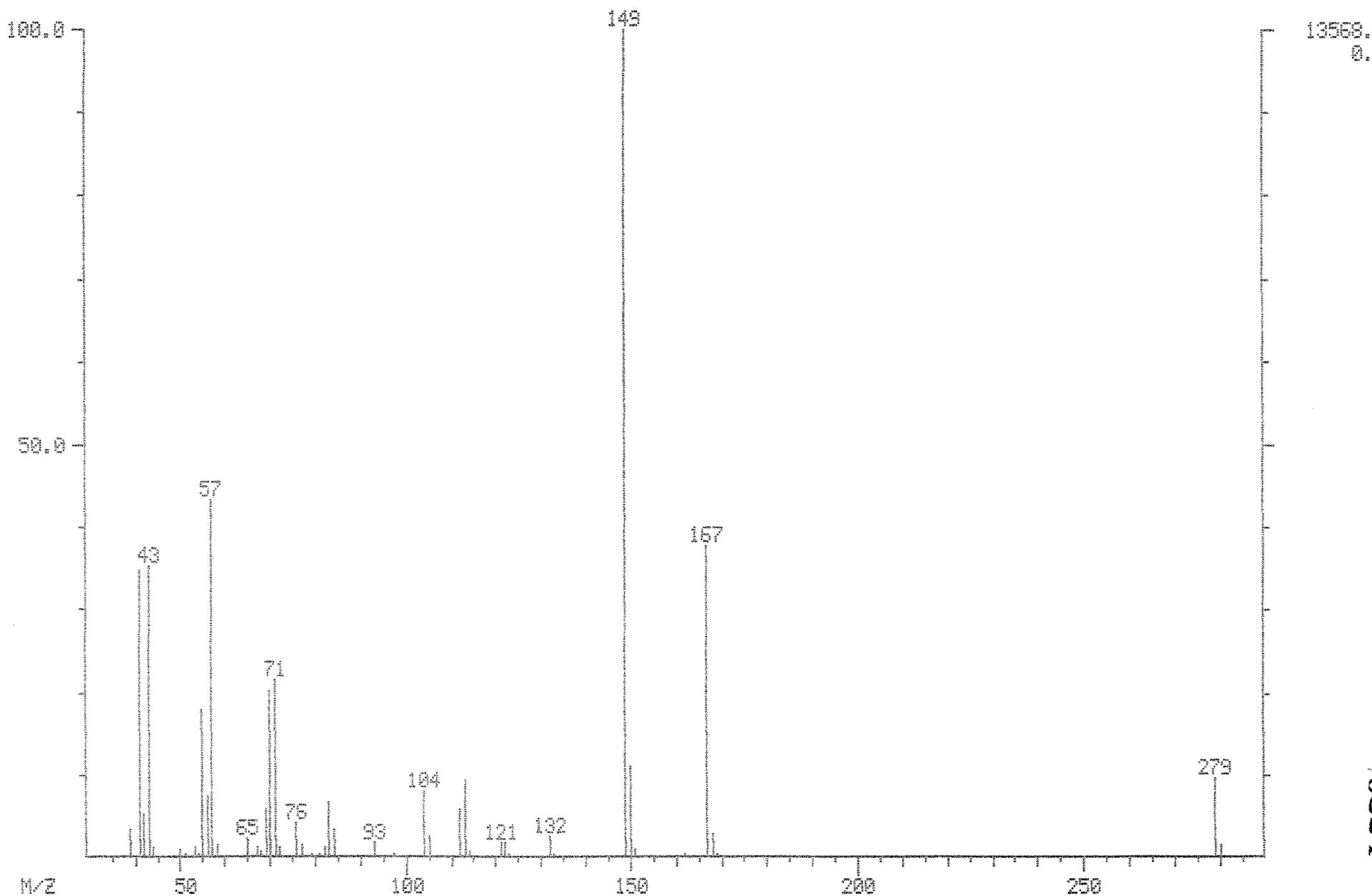


MASS SPECTRUM
08/30/93 9:21:00 + 30:29
SAMPLE: SST0050
CONDS.: AUTOSAMPLR 150Z
TEMP: -252 DEG. C

DATA: 15334Z #1829
ENHANCED (S 15B 2N 0T)

BASE M/Z: 149
RIC: 57152.

NAME: C740 BIS(2-ETHYLHEXYL)PHTHALATE



10334

TIC QUANTITATION REPORT: AMOUNTS BASED ON AREA

Quantitation Report File: 15336Z

Data: 15336Z.TI

08/30/93 11:10:00

Sample: AS042455 JOB2646 SS9251

Conds.: AUTOSAMPLR I50Z

Formula:

Instrument: I50Z

Weight: 0.000

Submitted by:

Analyst: SMW

Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	CAS #	Name	INTERNAL STAND
1	0-00-0	CI30 1,4-DICHLORO BENZENE D4	INTERNAL STAND
2	0-00-0	CI40 NAPHTHALENE DB	INTERNAL STAND
3	0-00-0	CI50 ACENAPHTHENE DB	INTERNAL STAND
4	0-00-0	CI60 PHENANTHRENE D10	INTERNAL STAND
5	0-00-0	CI70 CHRYSENE D12	INTERNAL STAND
6	0-00-0	CI75 PERYLENE D12	INTERNAL STAND
7	108-21-4	ACETIC ACID, 1-METHYLETHYL ESTER	
8	15206-55-0	BENZENEACETIC ACID, .ALPHA.-OXO-, METHYL ESTER	
9	18733-57-8	SILANE, TRICHLOROICOSYL-	
10	70429-52-6	7-OXABICYCLO[2.2.1]HEPTANE, 2-(2-BUTENYLIDENE)-1,3,3-T	
11	66465-62-1	7-OXABICYCLO[2.2.1]HEPTANE, 2-(2-BUTENYLIDENE)-1,3,3-T	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	488	8:08	1	1.000	A BB	45316.	40.000 NG	11.48
2	TOT	703	11:43	2	1.000	A BB	53678.	40.000 NG	11.48
3	TOT	1022	17:02	3	1.000	A BB	59816.	40.000 NG	11.48
4	TOT	1295	21:35	4	1.000	A BB	72610.	40.000 NG	11.48
5	TOT	1789	29:49	5	1.000	A BB	85616.	40.000 NG	11.48
6	TOT	2035	33:55	6	1.000	A BB	88988.	40.000 NG	11.48
7	TOT	363	6:03	1	0.744	A BV	85782.	75.719	21.74
8	TOT	559	9:19	1	1.145	A BB	6814.	6.015	1.73
9	TOT	1442	24:02	4	1.114	A BB	9618.	5.298	1.52
10	TOT	2125	35:25	6	1.044	A BV	23848.	10.720	3.08
11	TOT	2170	36:10	6	1.066	A BB	23568.	10.594	3.04

SW
8-30-93.

RF=1.0

DF= 1

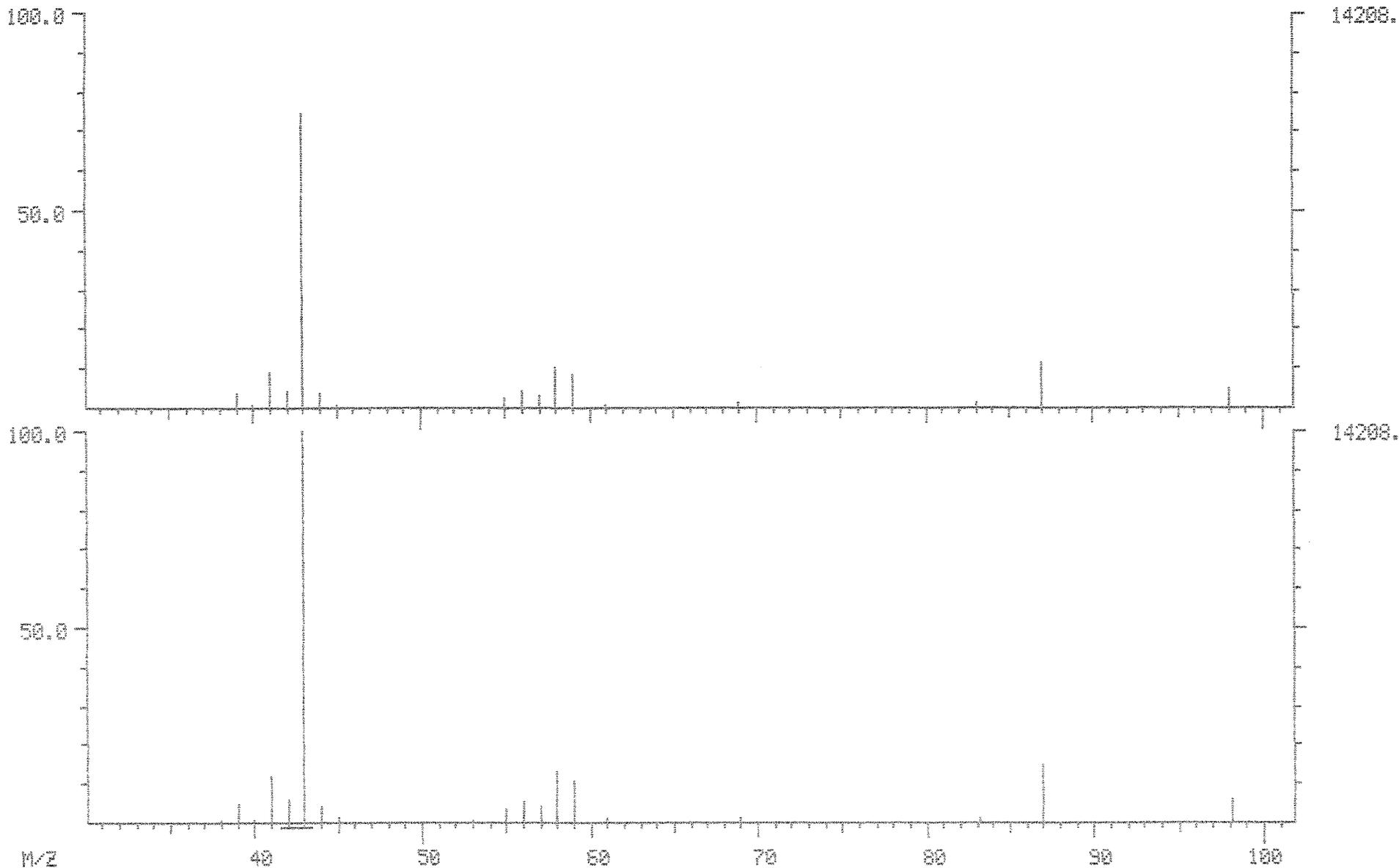
Unknown Concentration

$$= \left[\frac{\text{ng IS} * \text{area unknown}}{\text{area IS}} \right] * \text{RF} * \text{DF}$$

DUAL MASS SPECTRUM
08/30/93 11:10:00 + 6:03
SAMPLE: A5042455 JOB2646 559251
CONDS.: AUTOSAMPLR I50Z
TEMP: 63 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15336Z #363
CALI: 15336Z #3

BASE M/Z: 43/ 43
RIC: 20415./ 27328.



Library Search Data: 15336Z # 363 Base m/z: 43
 08/30/93 11:10:00 + 6:03 Cali: 15336Z # 3 RIC: 20320.
 Sample: AS042455 JOB2646 SS9251
 Conds.: AUTOSAMPLR I50Z
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
 388 matched at least 7 of the 16 largest peaks in the unknown

Rank In.	Name
1	1716 ACETIC ACID, 1-METHYLETHYL ESTER
2	1303 2-PROPANONE, 1-CYCLOPROPYL-
3	3241 2-PENTANONE, 4-HYDROXY-4-METHYL-
4	96 ISOBUTANE
5	1241 4-PENTEN-2-ONE, 4-METHYL-

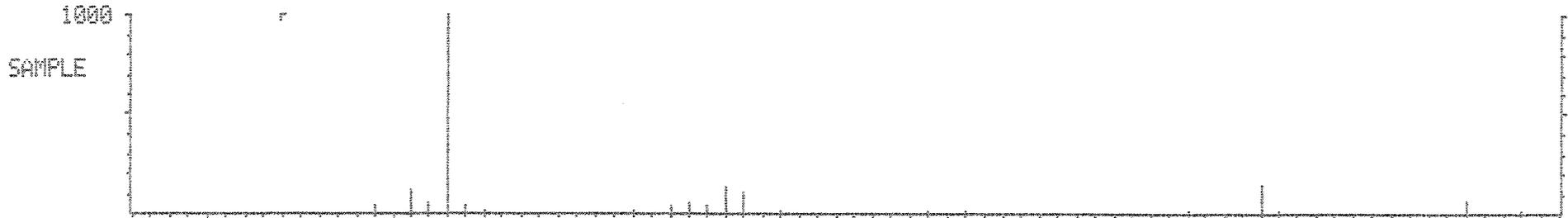
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C5.H10.O2	102	43	679	892	691
2	C6.H10.O	98	43	602	884	621
3	C6.H12.O2	116	43	700	855	707
4	C4.H10	58	43	565	848	578
5	C6.H10.O	98	43	653	845	653

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	-----	-----	-----	-----	108-21-4
2	-----	-----	-----	-----	4160-75-2
3	-----	-----	-----	-----	123-42-2
4	-----	-----	-----	-----	75-28-5
5	-----	-----	-----	-----	3744-02-3

MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:10:00 + 6:03
SAMPLE: A5042455 JOB2646 SS9251
CONDS.: AUTOSAMPLR I50Z
ENHANCED (S 15B 2N 0T)

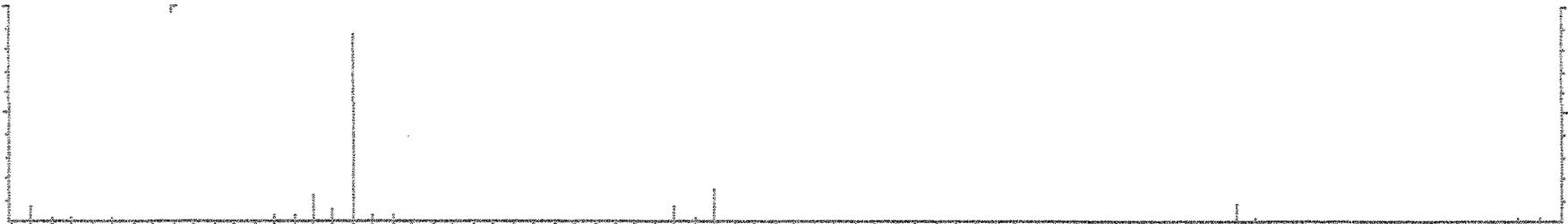
DATA: 15336Z # 363
CALI: 15336Z # 3

BASE M/Z: 43
RIC: 20320.



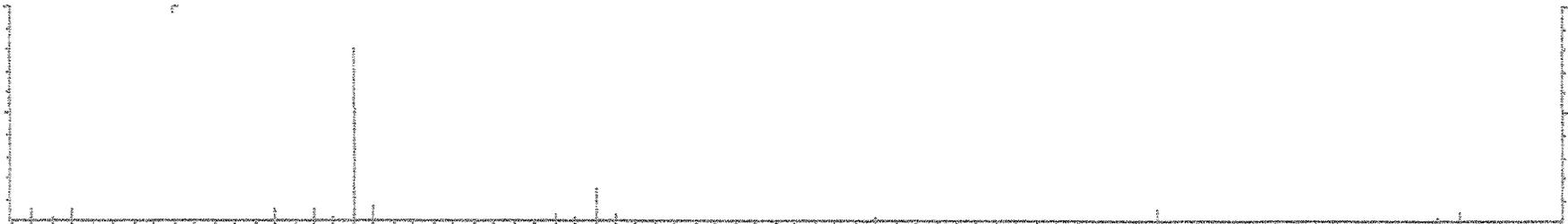
C5.H10.O2 ACETIC ACID, 1-METHYLETHYL ESTER CAS# 100-21-4

1000
M WT 102
B PK 43
RANK 1
1716
FIT 892



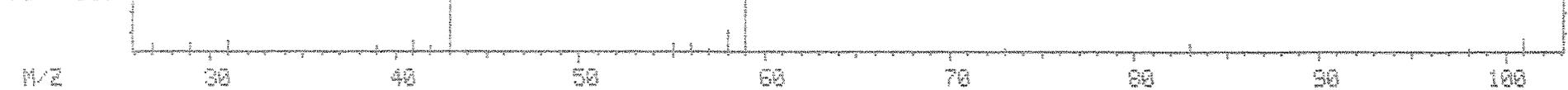
C6.H10.O 2-PROPANONE, 1-CYCLOPROPYL- CAS# 4160-75-2

1000
M WT 98
B PK 43
RANK 2
1303
FIT 884



C6.H12.O2 2-PENTANONE, 4-HYDROXY-4-METHYL- CAS# 123-42-2

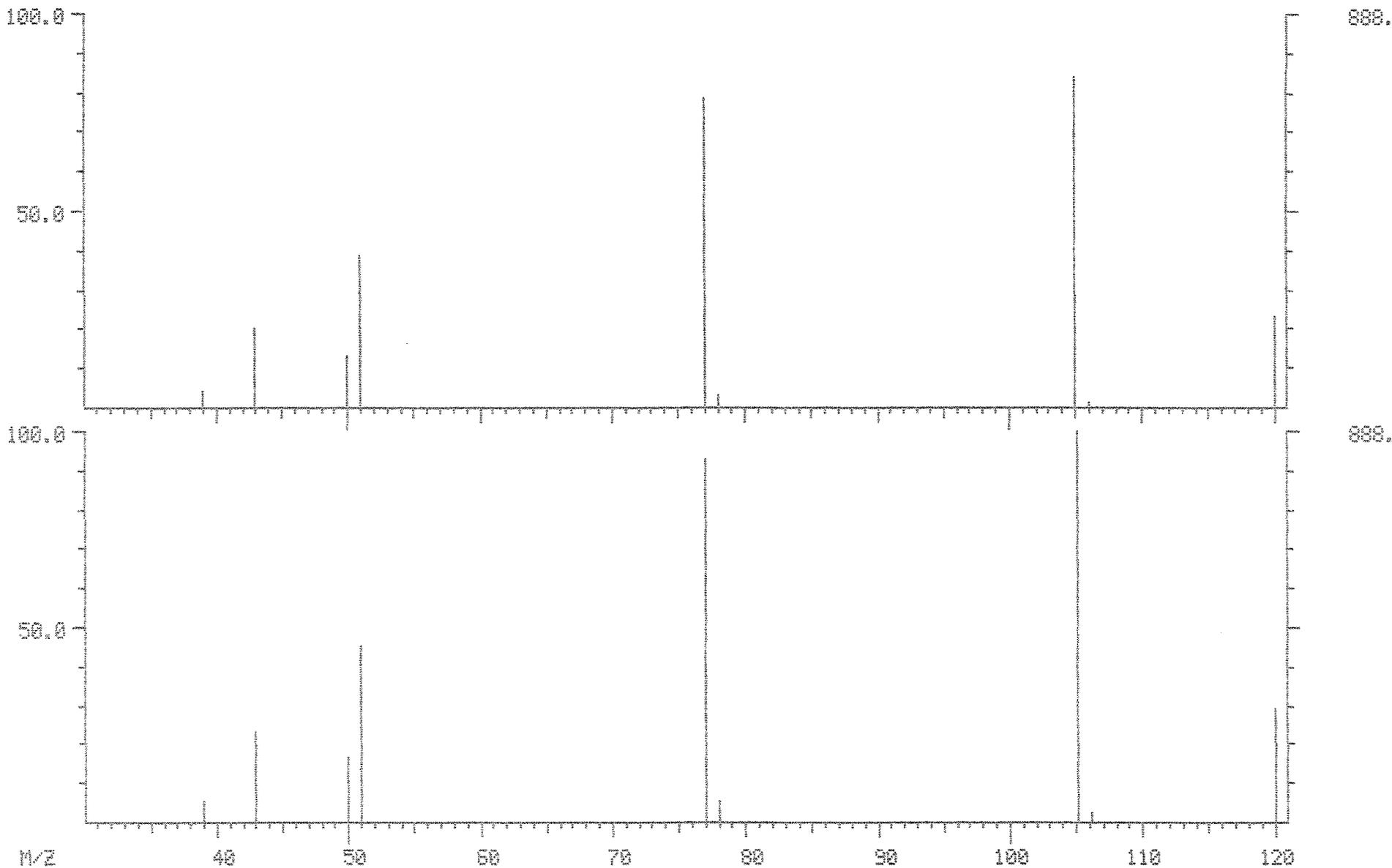
1000
M WT 116
B PK 43
RANK 3
3241
FIT 855



DUAL MASS SPECTRUM
08/30/93 11:10:00 + 9:19
SAMPLE: A5042455 JOB2646 339251
CONDS.: AUTOSAMPLR 150Z
TEMP: 89 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15336Z #559
CALI: 15336Z #3

BASE M/Z: 105/ 105
RIC: 2360./ 2852.



Library Search Data: 15336Z # 559 Base m/z: 105
 08/30/93 11:10:00 + 9:19 Cali: 15336Z # 3 RIC: 2360.
 Sample: A5042455 JOB2646 SS9251
 Conds.: AUTOSAMPLR I50Z
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
 50 matched at least 6 of the 9 largest peaks in the unknown

Rank In.	Name
1	13359 BENZENEACETIC ACID, .ALPHA.-OXO-, METHYL ESTER
2	3748 ACETOPHENONE
3	9261 1,2-PROPANEDIONE, 1-PHENYL-
4	13112 BENZOYL ISOTHIOCYANATE
5	9645 BENZOYLFORMIC ACID

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C9. H8. O3	164	105	770	927	814
2	C8. H8. O	120	105	921	921	979
3	C9. H8. O2	148	105	800	918	855
4	C8. H5. O. N. S	163	105	759	914	807
5	C8. H6. O3	150	105	757	911	812

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	-----	-----	-----	-----	15206-55-0
2	-----	-----	-----	-----	98-86-2
3	-----	-----	-----	-----	579-07-7
4	-----	-----	-----	-----	532-55-8
5	-----	-----	-----	-----	611-73-4

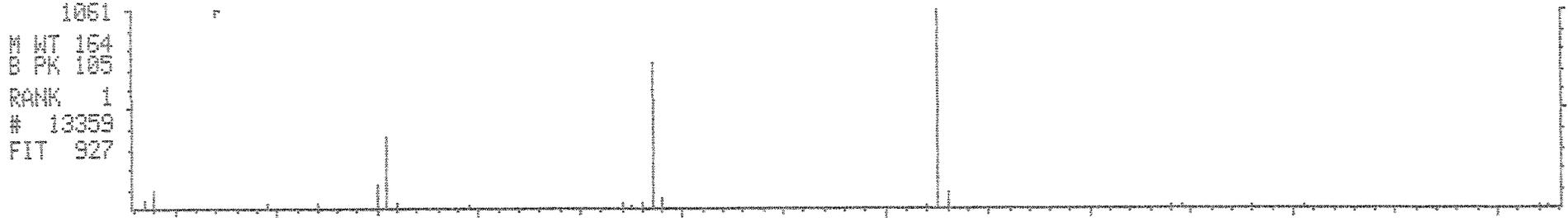
MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:10:00 + 9:19
SAMPLE: A5042455 JOB2646 559251
CONDS.: AUTOSAMPLR 150Z
ENHANCED (S 15B 2N 0T)

DATA: 15336Z # 559
CALI: 15336Z # 3

BASE M/Z: 105
RIC: 2360.

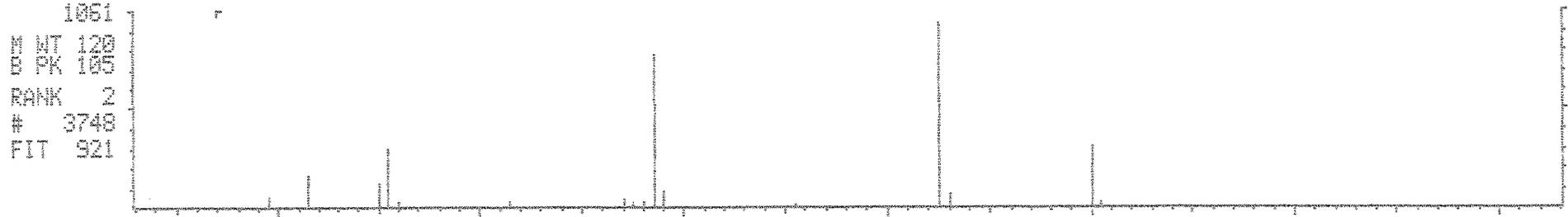


09.H8.03 BENZENEACETIC ACID, .ALPHA.-OXO-, METHYL ESTER CAS# 15206-55-0



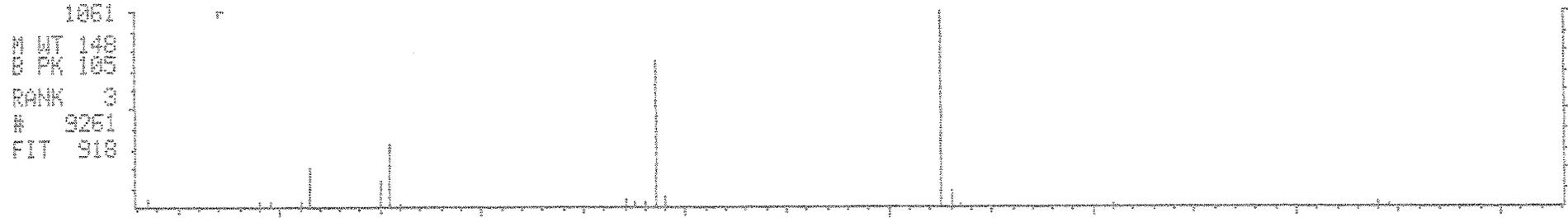
M WT 164
B PK 105
RANK 1
13359
FIT 927

08.H8.0 ACETOPHENONE CAS# 98-06-2



M WT 120
B PK 105
RANK 2
3748
FIT 921

09.H8.02 1,2-PROPANEDIONE, 1-PHENYL- CAS# 579-07-7



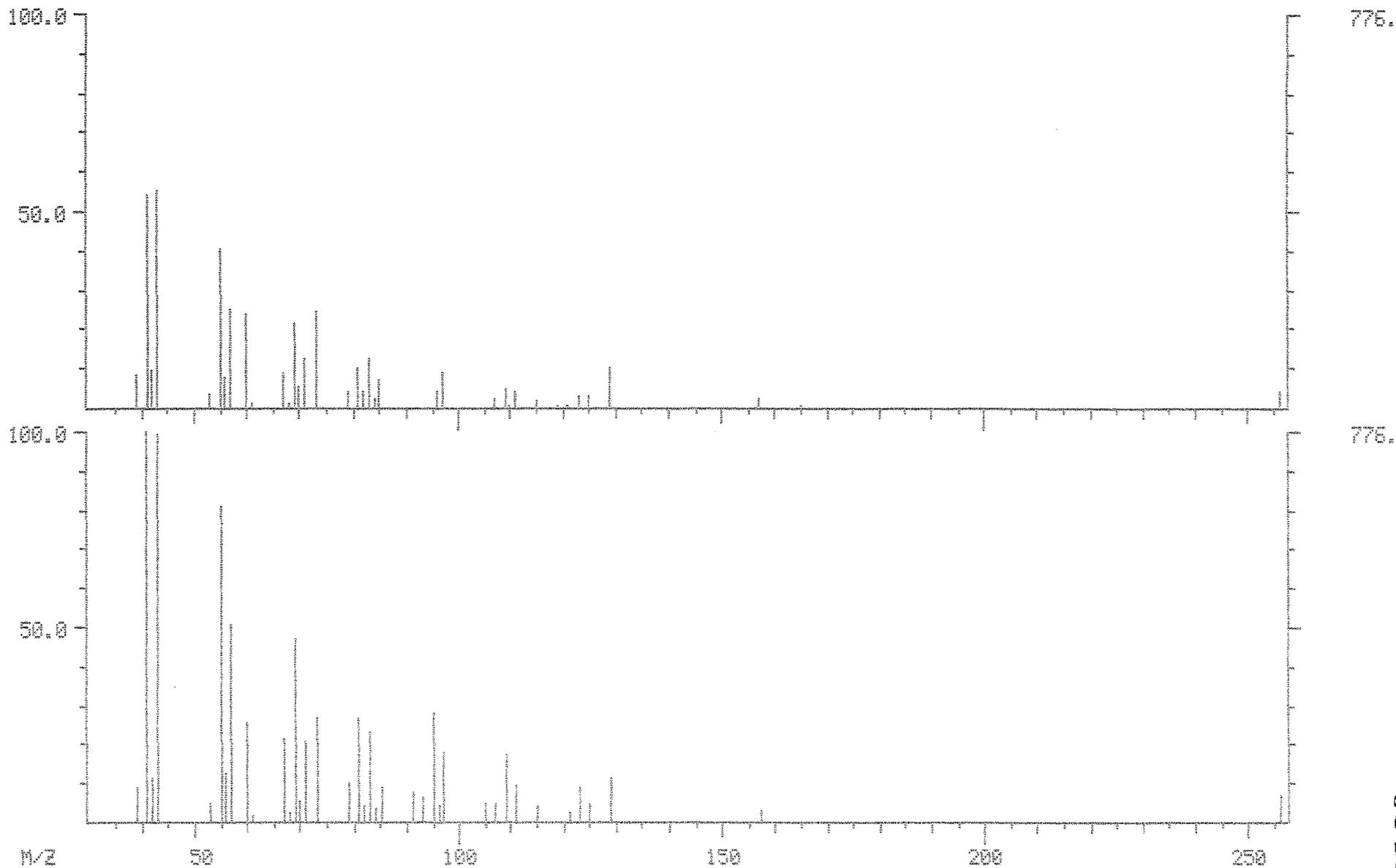
M WT 148
B PK 105
RANK 3
9261
FIT 918

M/Z 40 60 80 100 120 140 160

DUAL MASS SPECTRUM
08/30/93 11:10:00 + 24:02
SAMPLE: A5042455 JOB2646 S59251
CONDS.: AUTOSAMPLR I502
TEMP: 207 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15336Z #1442
CALI: 15336Z #3

BASE M/Z: 43/ 41
RIC: 3095./ 5775.



0342

Library Search Data: 15336Z #1442 Base m/z: 43
08/30/93 11:10:00 + 24:02 Call: 15336Z # 3 RIC: 3088

Sample: A5042455 J082646 S59251

Conds.: AUTOSAMPLR 150Z

Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYB searched for maximum FIT
215 matched at least 7 of the 16 largest peaks in the unknown

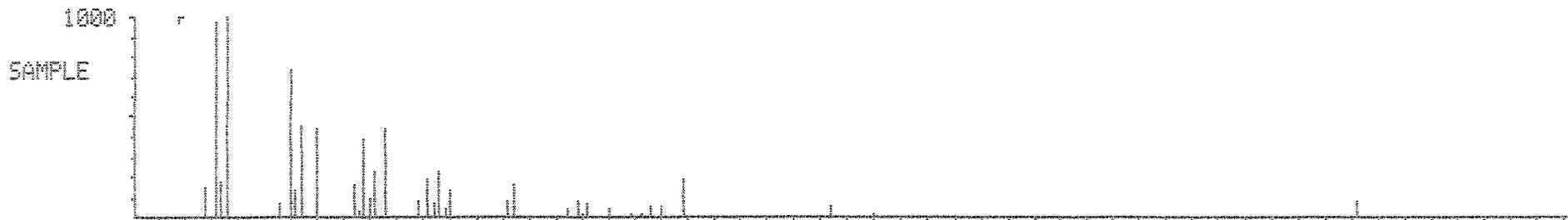
Rank In	Name	Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	54849 SILANE, TRICHLOROETHOXYL-	1	C20.H41.Cl3.Si	414	41	569	959	586
2	14787 1-NONENE, 4,6,8-TRIMETHYL-	2	C12.H24	168	43	496	903	509
3	42180 OCTADECANE, 1-(ETHENYLOXY)-	3	C20.H40.O	296	43	523	892	554
4	40233 NONADECANOL	4	C19.H40.O	284	43	565	892	600
5	29964 METHYL 2-HYDROXYDODECANOATE	5	C13.H26.O3	230	55	502	887	541

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	---	---	---	---	18733-57-8
2	---	---	---	---	54410-98-9
3	---	---	---	---	930-02-9
4	---	---	---	---	52783-43-4
5	---	---	---	---	51067-85-7

MID LIBRARY SEARCH (LIBRARYNB)
08/30/93 11:10:00 + 24:02
SAMPLE: A5042455 JOB2646 S59251
CONDS.: AUTOSAMPLR 150Z
ENHANCED (S 15B 2N 0T)

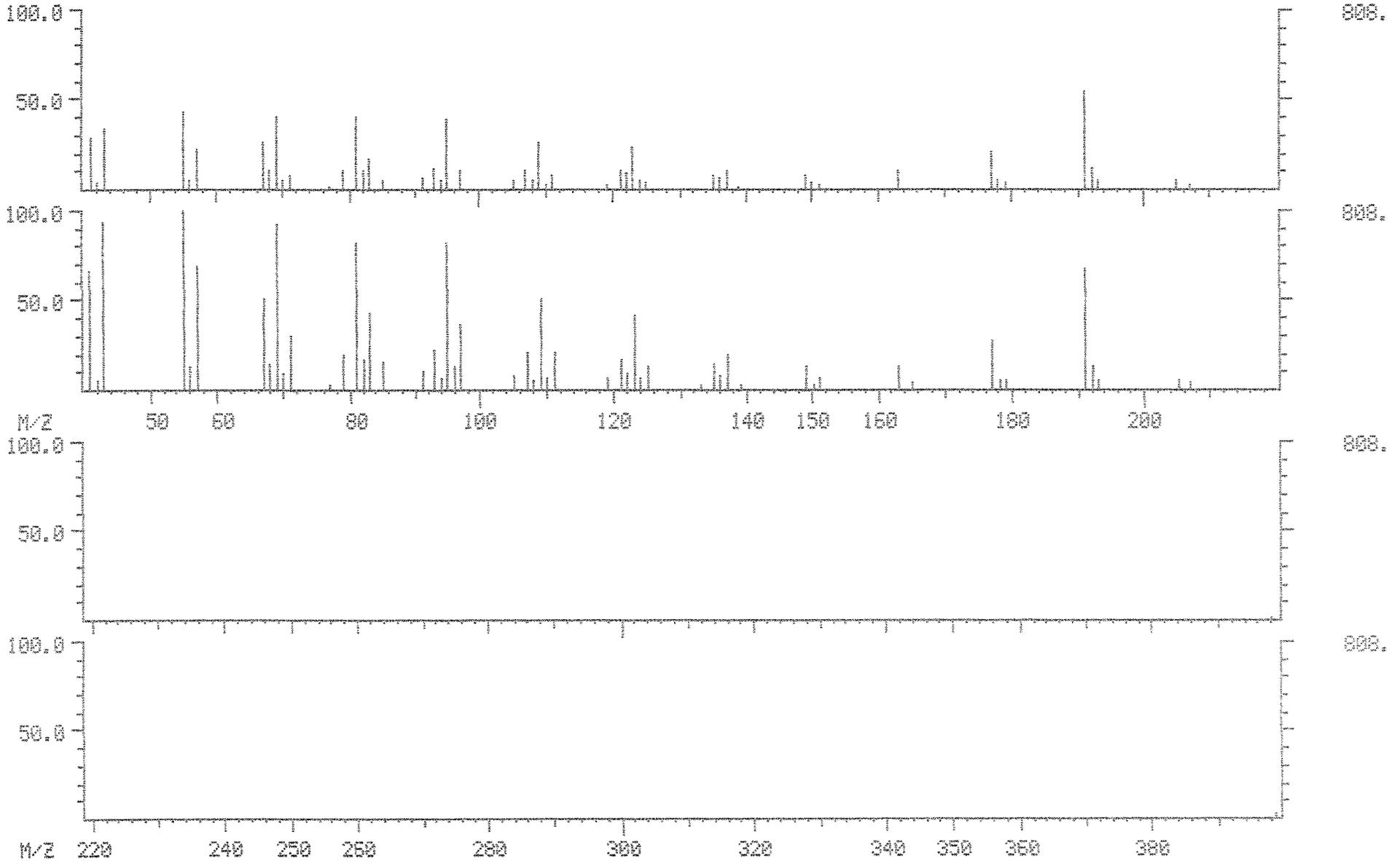
DATA: 15336Z #1442
CALI: 15336Z # 3

BASE M/Z: 43
RIC: 3088.



DUAL MASS SPECTRUM
08/30/93 11:10:00 + 35:25
SAMPLE: AS042455 JOB2646 SS9251
CONDS.: AUTOSAMPLR I50Z
TEMP: 298 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15336Z #2125 BASE M/Z: 191/ 55
CALI: 15336Z #3 RIC: 5296./ 10736.



Library Search Data: 15336Z #2125 Base m/z: 191
08/30/93 11:10:00 + 35:25 Call: 15336Z # 3 RIC: 5288.
Sample: A5042455 J082646 559251
Conds.: AUTOSAMPLR 150Z
Enhanced (S 15B 2N 0L)

62231 spectra in LIBRARYNB searched for maximum FIT
213 matched at least 6 of the 16 largest peaks in the unknown

Rank In.	Name
1	20815 7-OXABICYCLO[2.2.1]HEPTANE, 2-(2-BUTENYLIDENE)-1,3,3-TRIMETHYL-, (E*)
2	20814 7-OXABICYCLO[2.2.1]HEPTANE, 2-(2-BUTENYLIDENE)-1,3,3-TRIMETHYL-, (Z*)
3	50599 PENTALENE, OCTAHYDRO-1-(2-OCTYLDECYL)-
4	10347 3-OXATRICYCLO[4.1.1.0 ^{2,4}]OCTANE, 2,7,7-TRIMETHYL-
5	13500 DIVINYLBIS(CYCLOPROPYL)SILANE

Rank	Formula	Ret. Time	B.P. Int.	US. Pat. 1	US. Pat. 2	C.A.S. #
1	C13.H20.O	192	43	292	972	292
2	C13.H20.O	192	43	291	970	291
3	C26.H50	352	43	433	901	448
4	C10.H16.O	152	67	334	875	346
5	C10.H16.SI	164	95	369	872	382

Rank 1
2
3
4
5

70429-52-6
66465-62-1
59401-65-5
1686-14-2

C.A.S. #

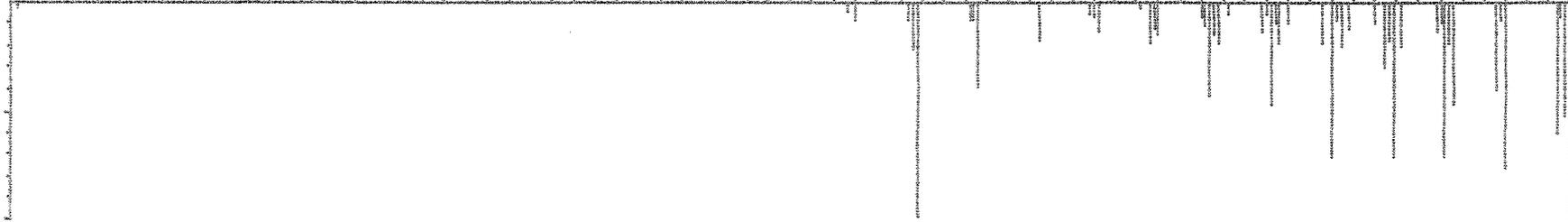
MID LIBRARY SEARCH (LIBRARYB) 08/30/93 11:10:00 + 35:25
SAMPLE: A5042455 JOB2646 559251
CONDS.: AUTOSAMPLR 150Z
ENHANCED (> 5.158 2N 0T)

DATA: 15336Z #2125
CALL: 15336Z # 3

BASE M/Z: 191
RIC: 5288.

1019

SAMPLE



C13.H20.0

1019

M.WT 192

B.PK 43

20815

FIT 972

7-OXABICYCLO[2.2.1]HEPTANE, 2-(2-BUTENYLIDENE)-1,3,3-TRIMETH

CAS# 70429-52-6



C13.H20.0

1019

M.WT 192

B.PK 43

20814

FIT 970

7-OXABICYCLO[2.2.1]HEPTANE, 2-(2-BUTENYLIDENE)-1,3,3-TRIMETH

CAS# 66465-62-1



C26.H50

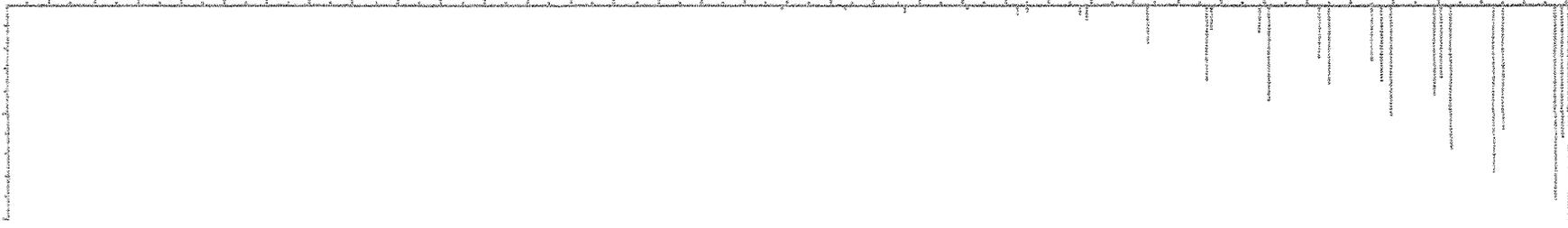
1019

M.WT 362

B.PK 43

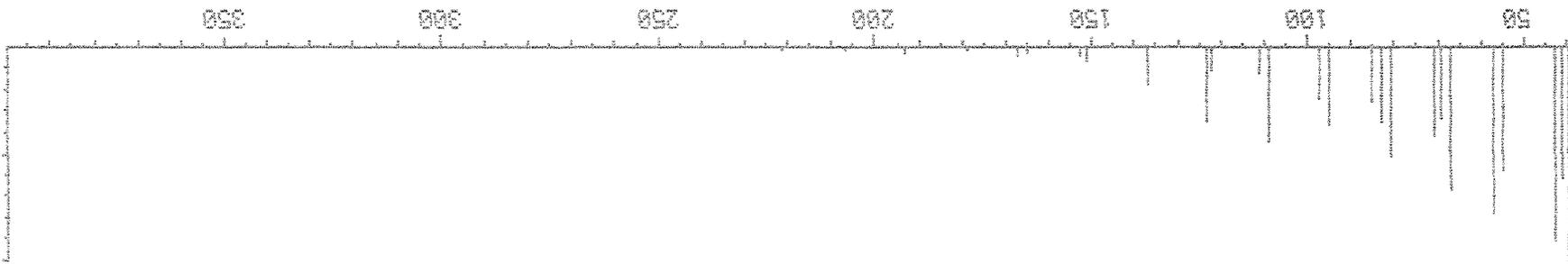
50599

FIT 901



PENTENE, OCTAHYDRO-1-(2-OCTYLDECYL)-

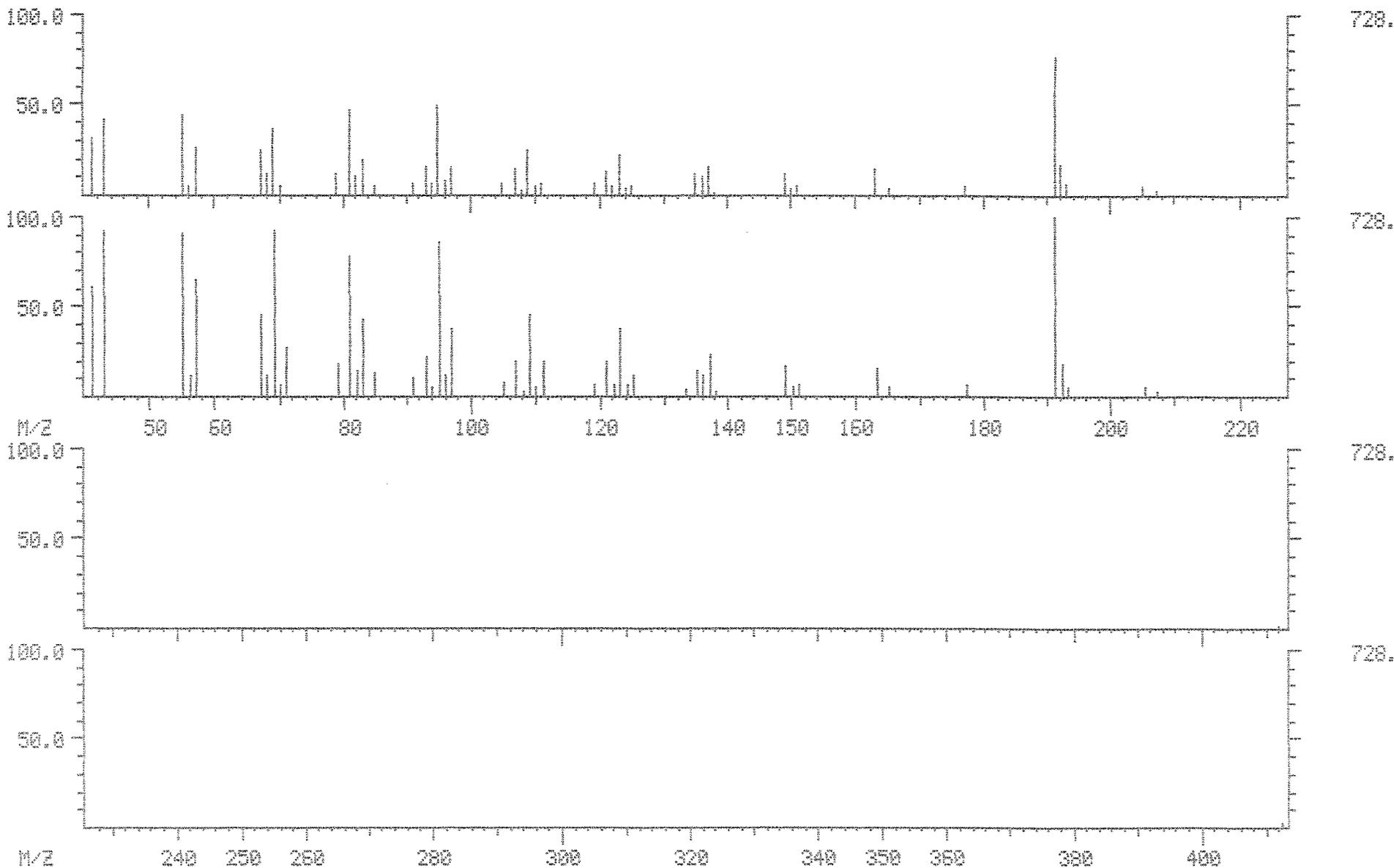
CAS# 55401-65-5



DUAL MASS SPECTRUM
08/30/93 11:10:00 + 36:10
SAMPLE: A5042455 JOB2646 S39251
CONDS.: AUTOSAMPLR I50Z
TEMP: 300 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 15336Z #2170
CALI: 15336Z #3

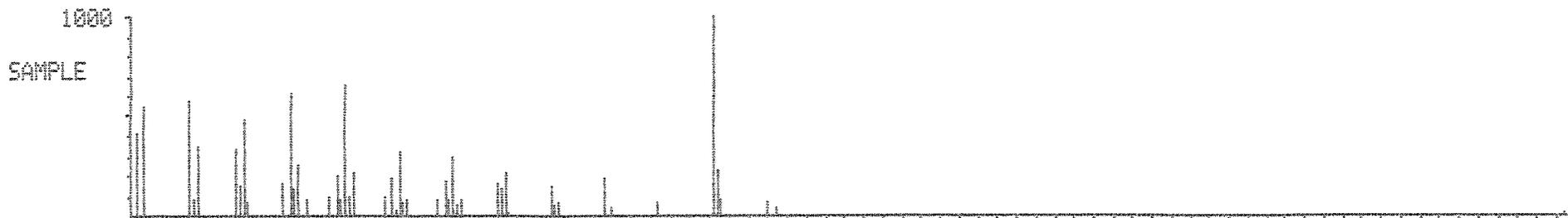
BASE M/Z: 191/ 191
RIC: 5320./ 9344.



MID LIBRARY SEARCH (LIBRARYNE)
08/30/93 11:10:00 + 36:10
SAMPLE: A5042455 JOB2646 S59251
CONDS.: AUTOSAMPLR 150Z
ENHANCED (S 15B 2N 0T)

DATA: 15336Z #2170
CALI: 15336Z # 3

BASE M/Z: 191
RIC: 5320.



D13.H20.0 7-OXABICYCLO[2.2.1]HEPTANE, 2-(2-BUTENYLIDENE)-1,3,3-TRIMETH CAS# 56465-62-1

1000
M WT 192
B PK 43
RANK 1
20814
FIT 969



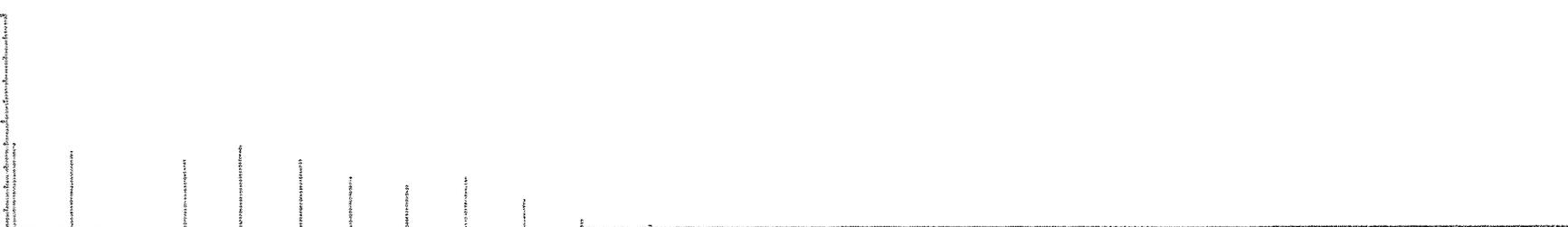
D13.H20.0 7-OXABICYCLO[2.2.1]HEPTANE, 2-(2-BUTENYLIDENE)-1,3,3-TRIMETH CAS# 70429-52-6

1000
M WT 192
B PK 43
RANK 2
20815
FIT 967



D13.H23.N CYCLODODECANECARBONITRILE CAS# 69300-13-6

1000
M WT 193
B PK 41
RANK 3
21007
FIT 932



M/Z 50 100 150 200 250 300 350 400

10350