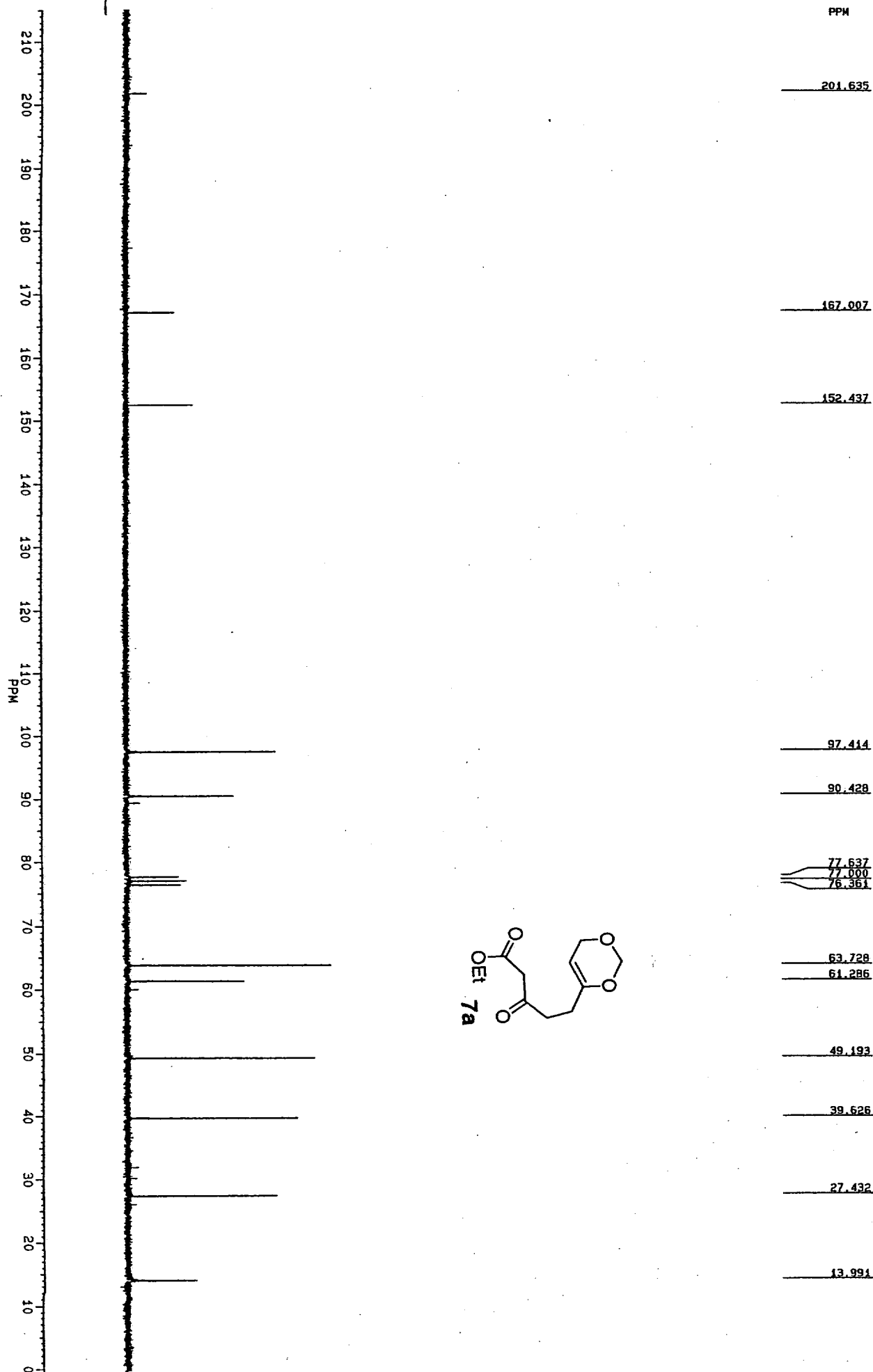
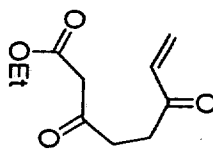
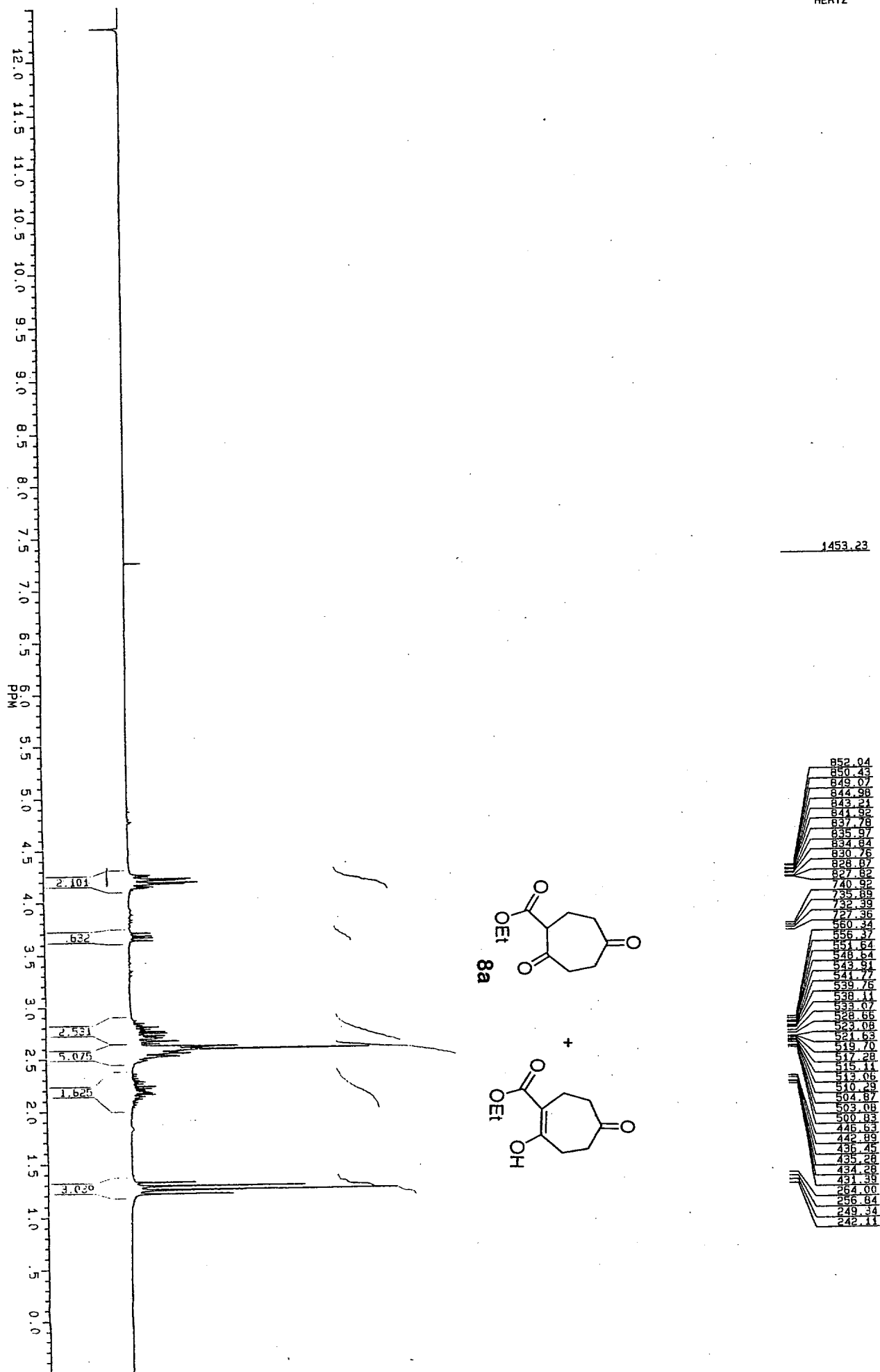


PPM

41

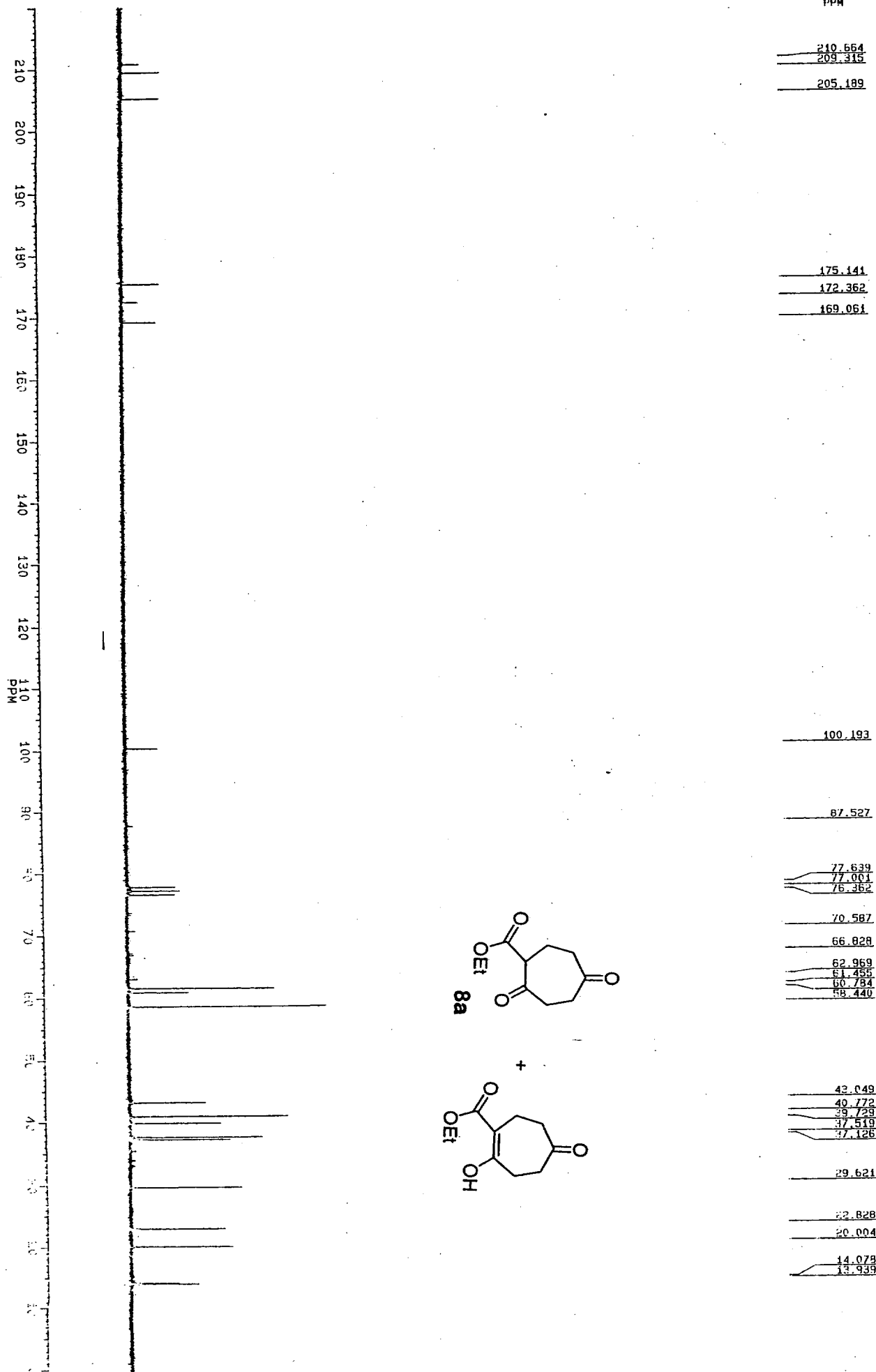






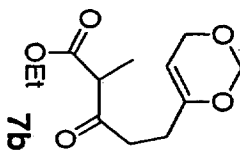
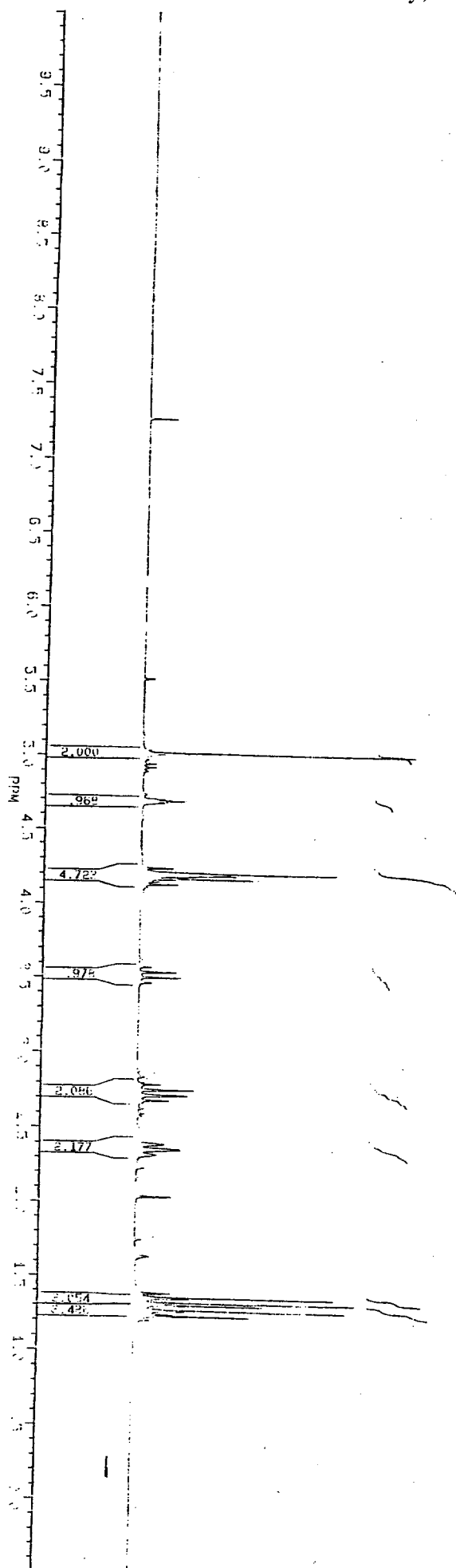
PPM

44



HERTZ

45



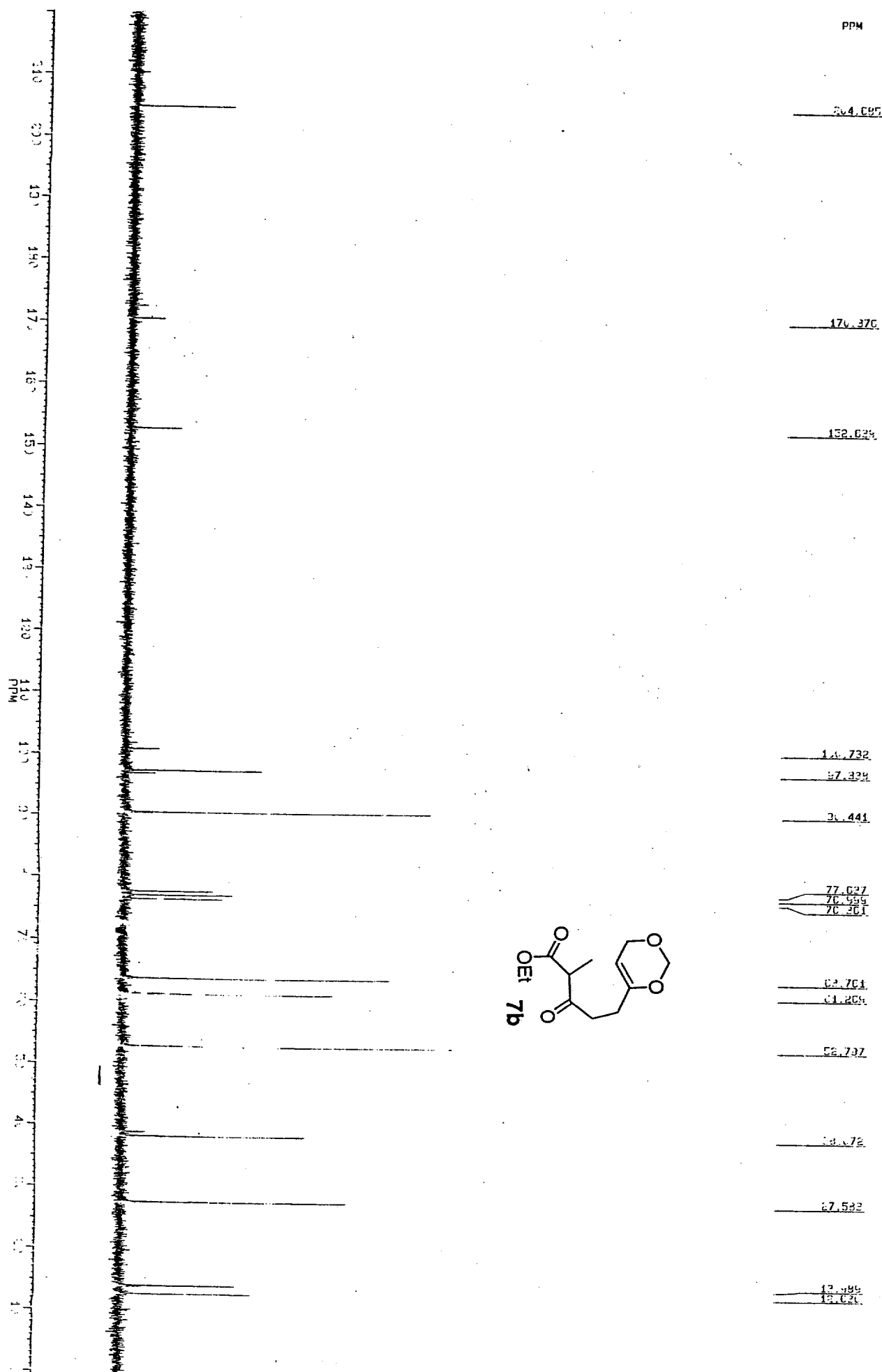
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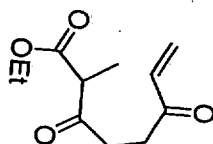
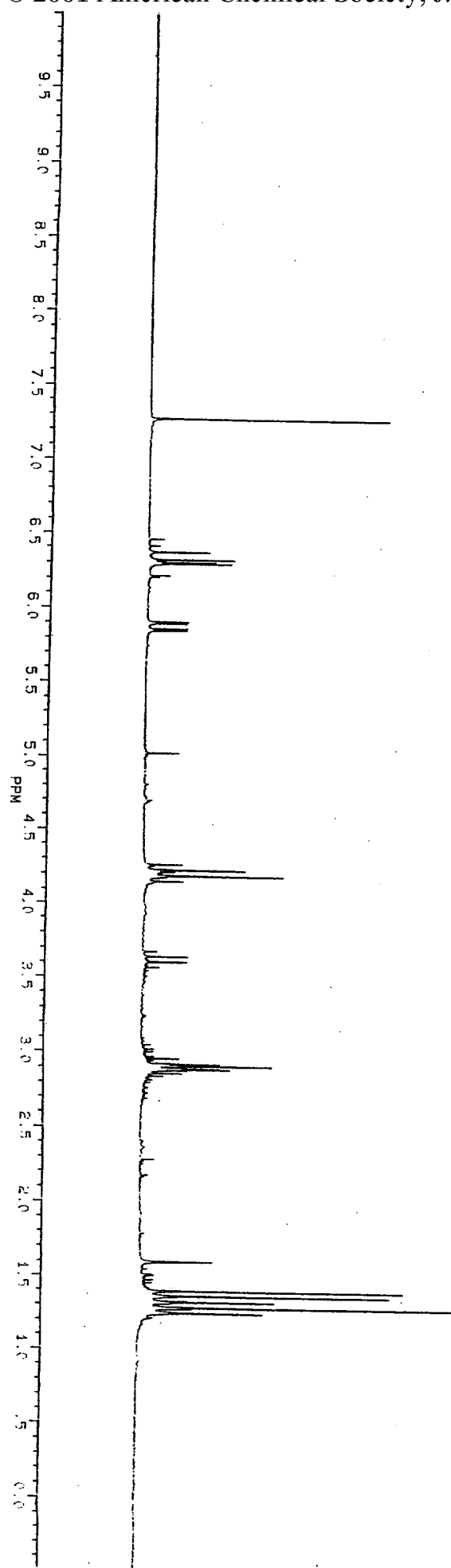
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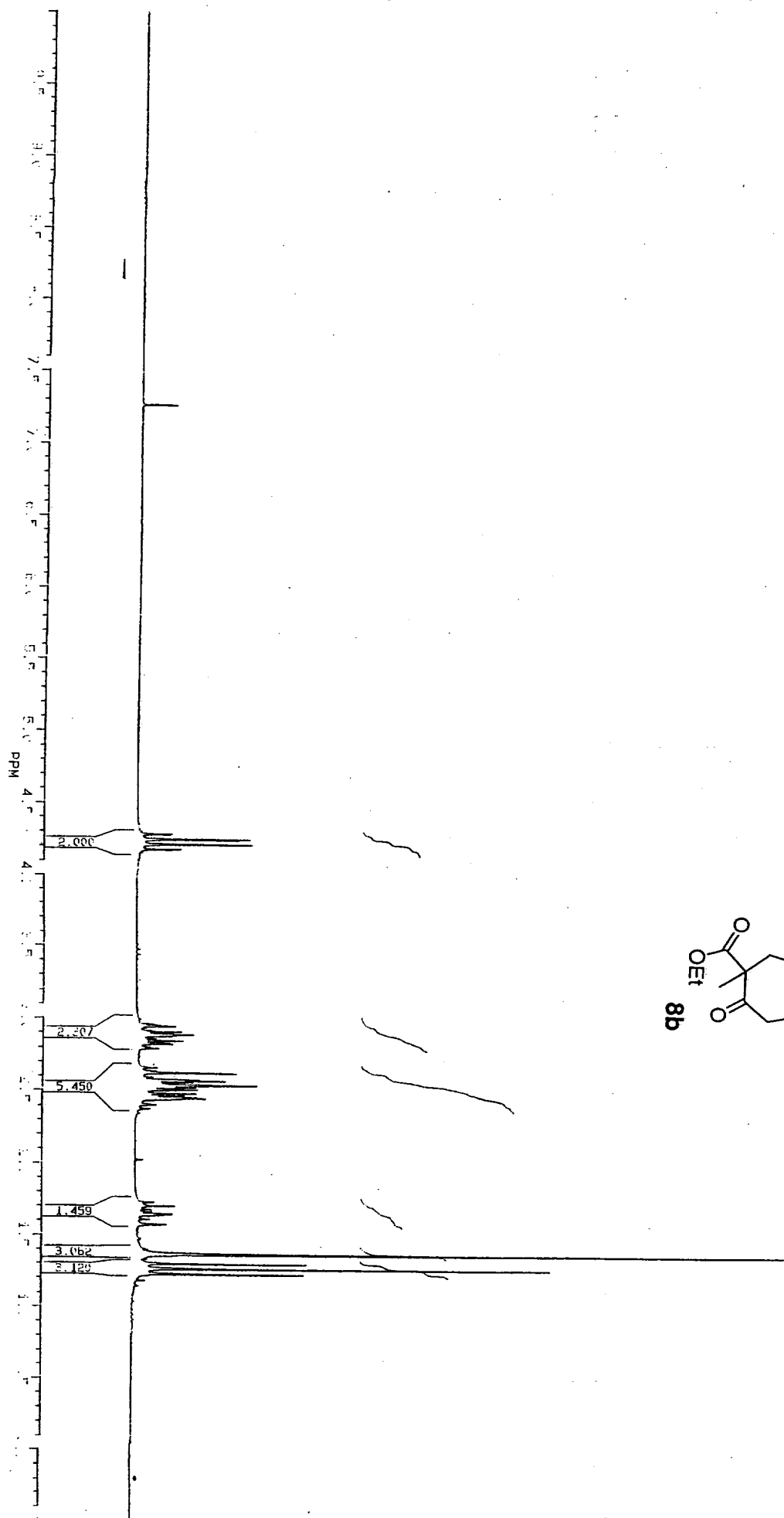
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476.36
463.73

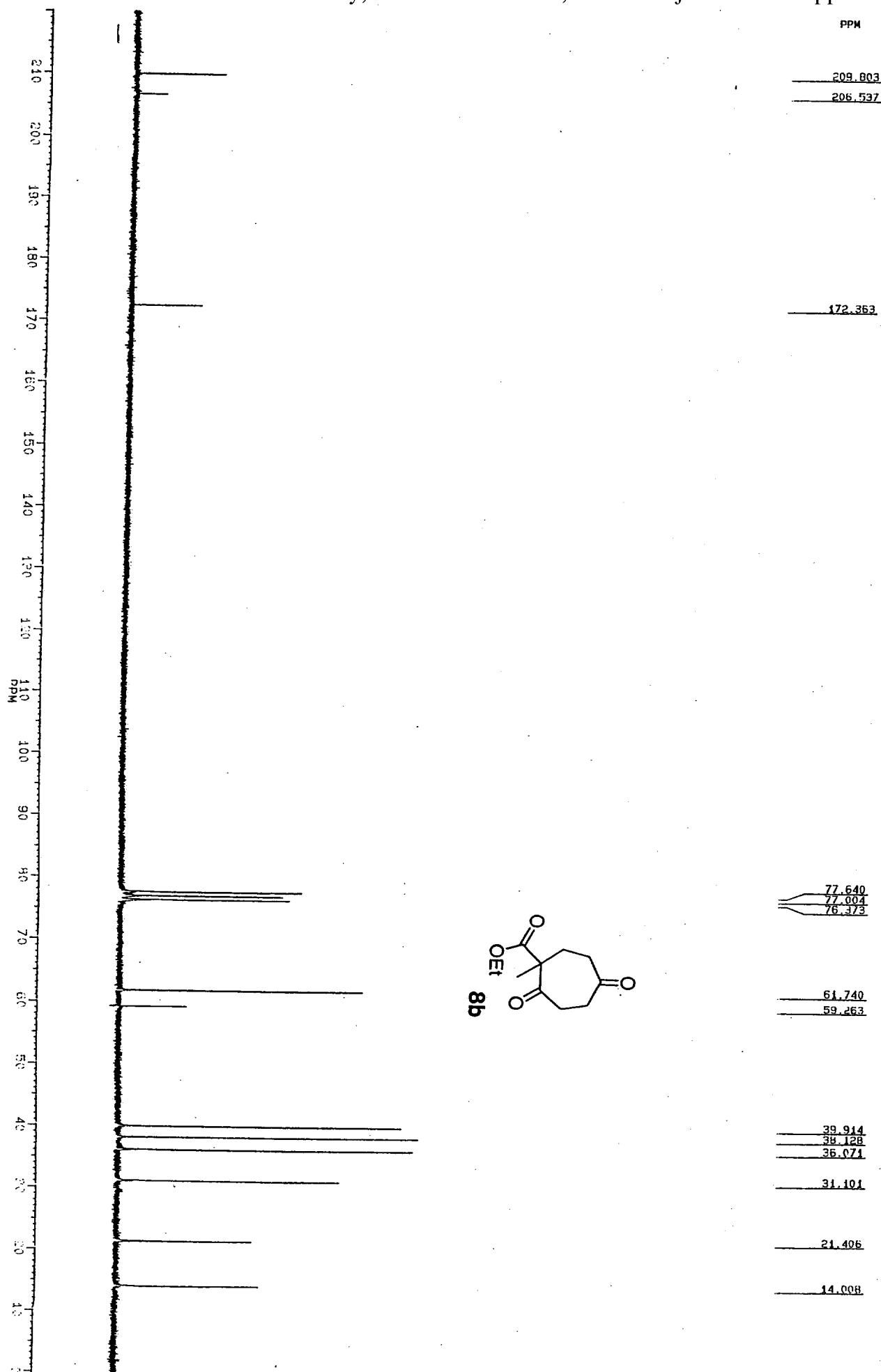
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362.34
360.12
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340.51



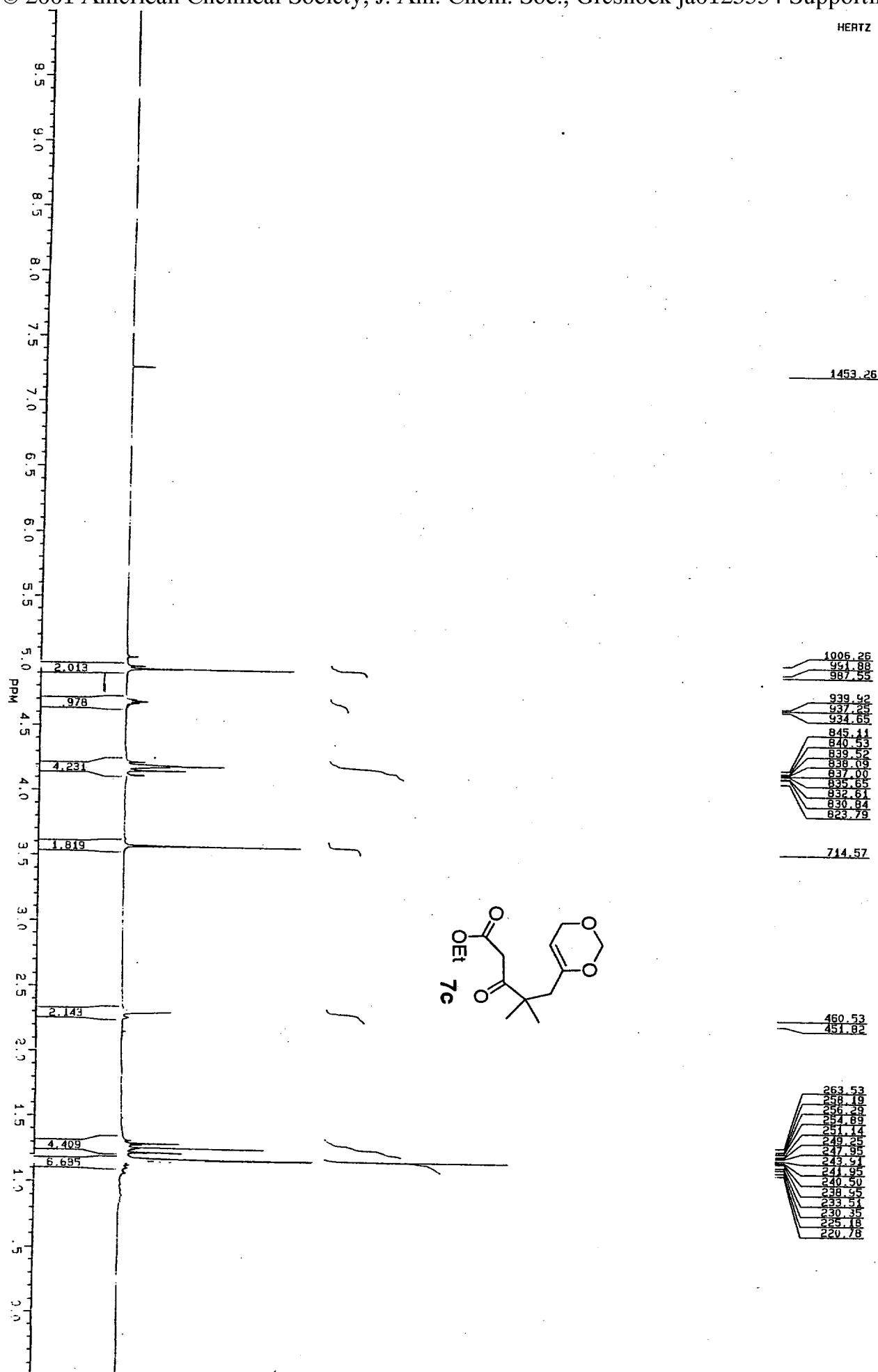


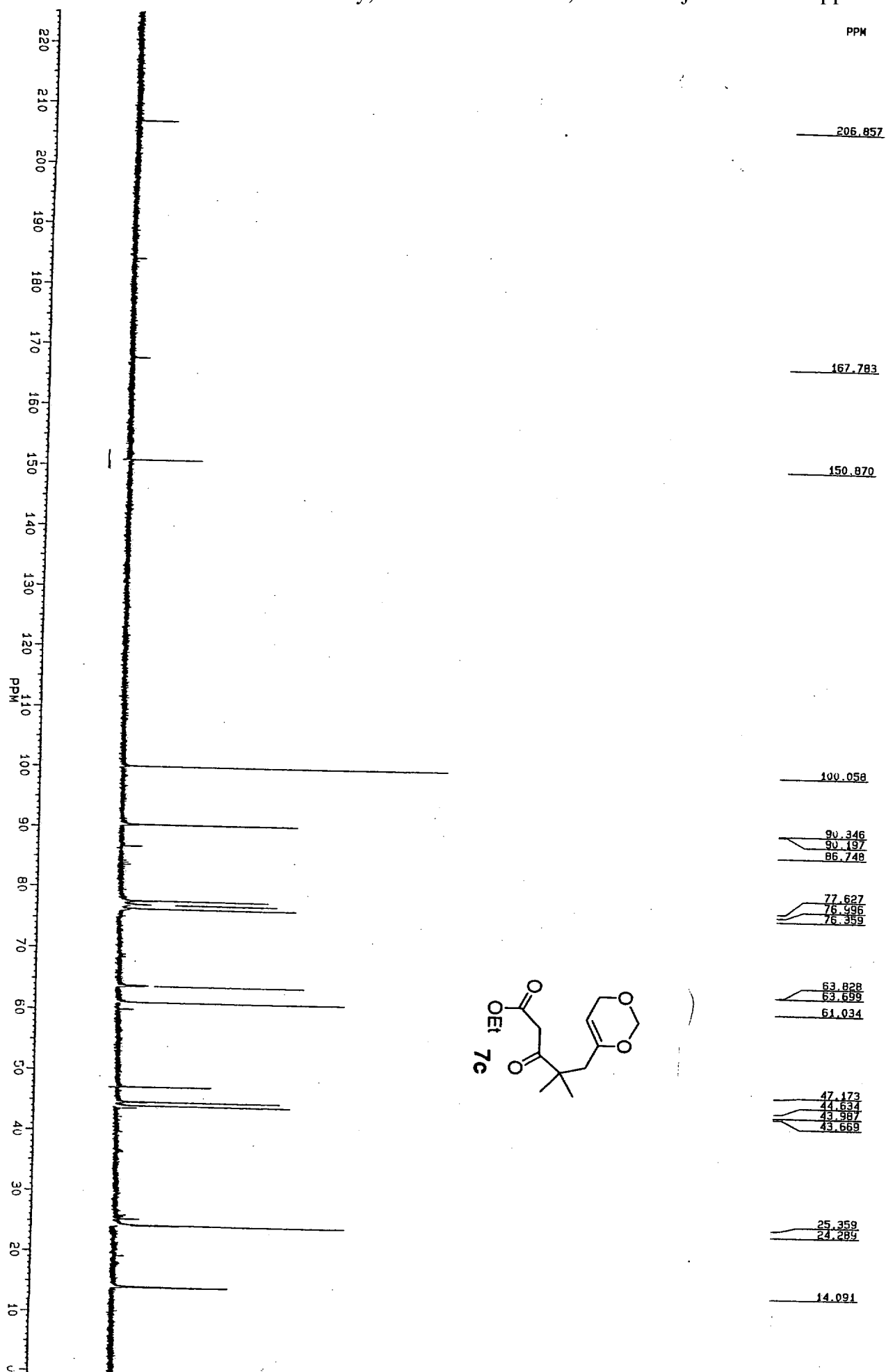


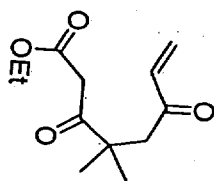
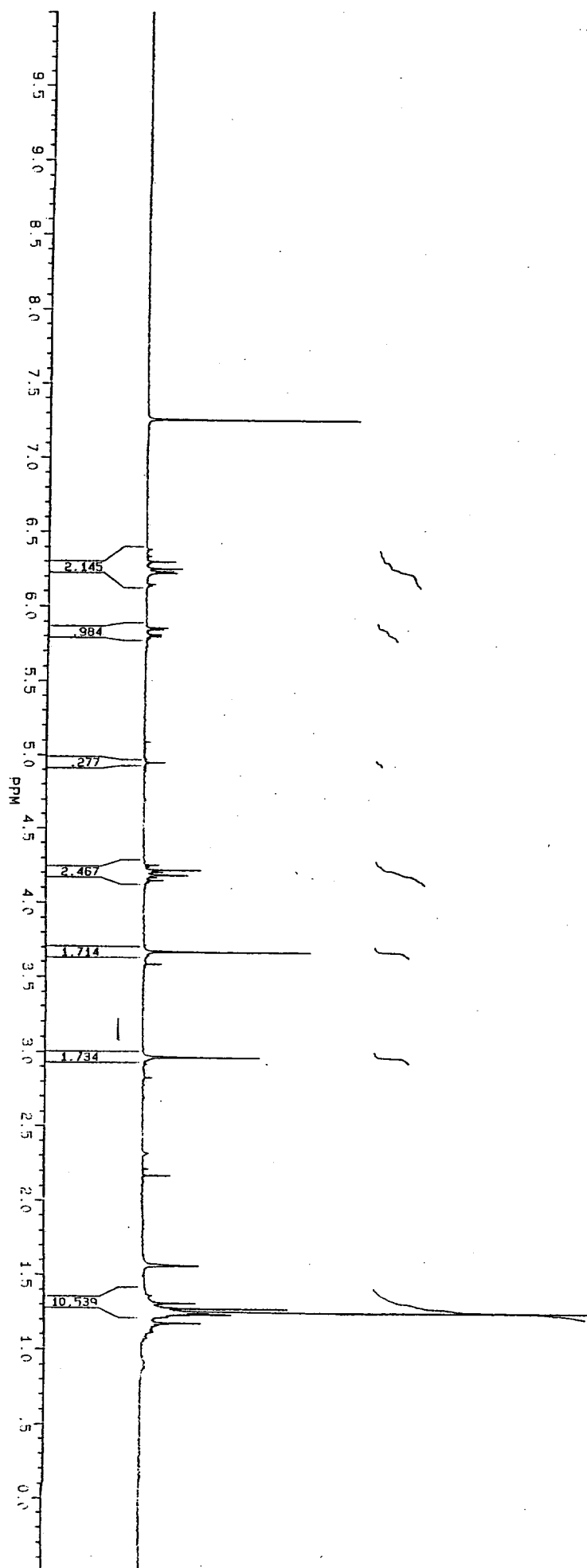


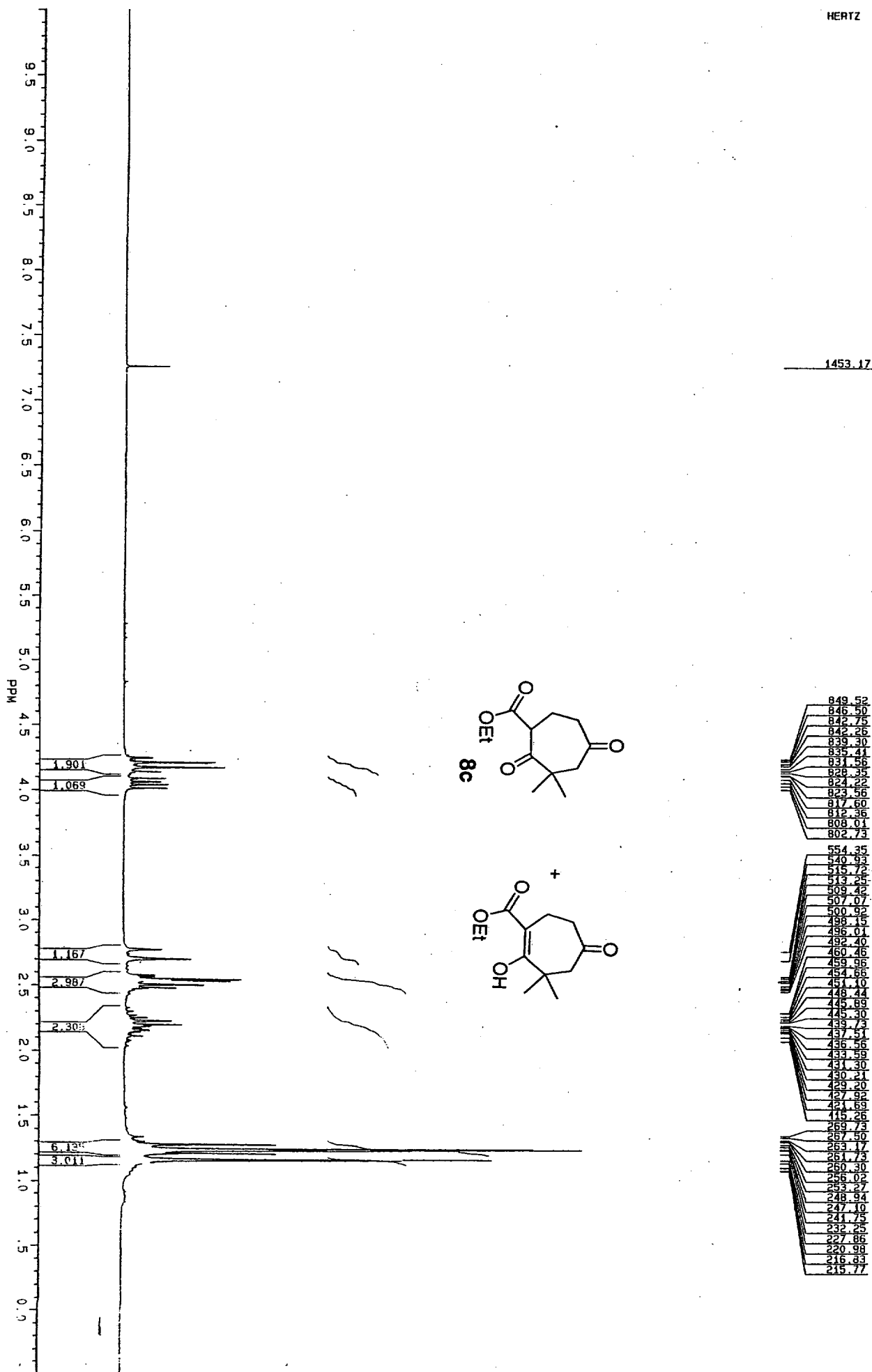
HERTZ

50



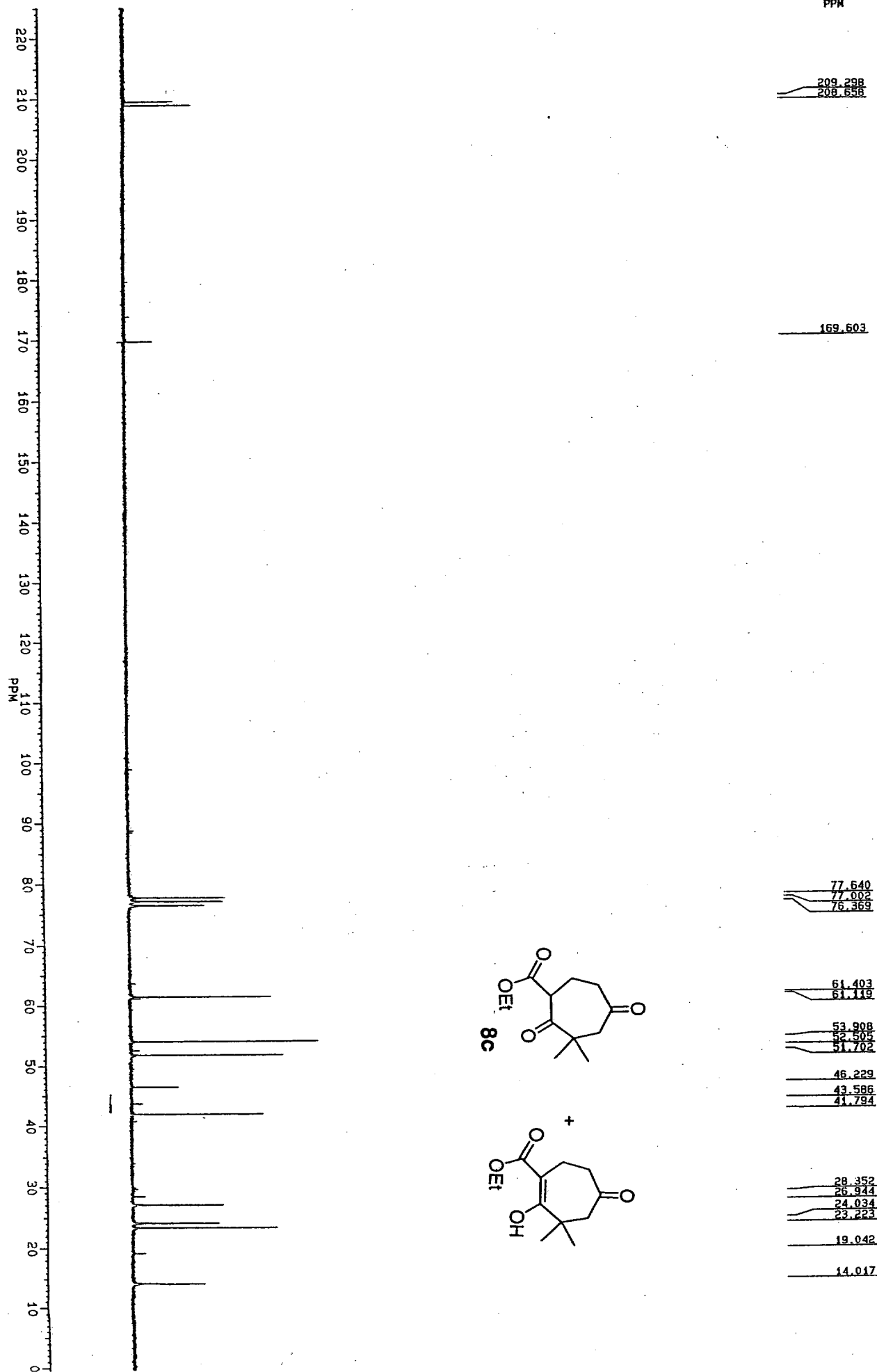






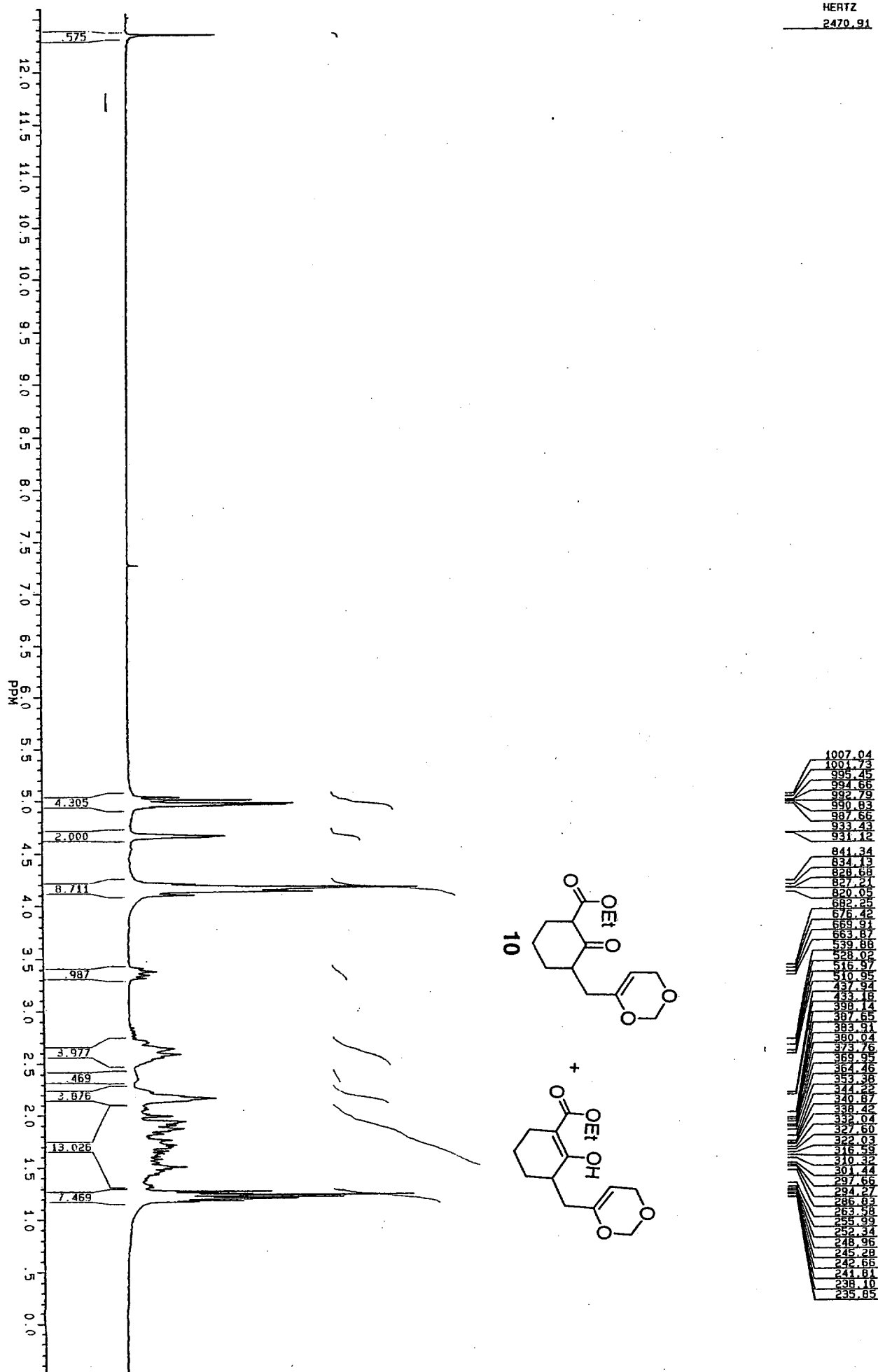
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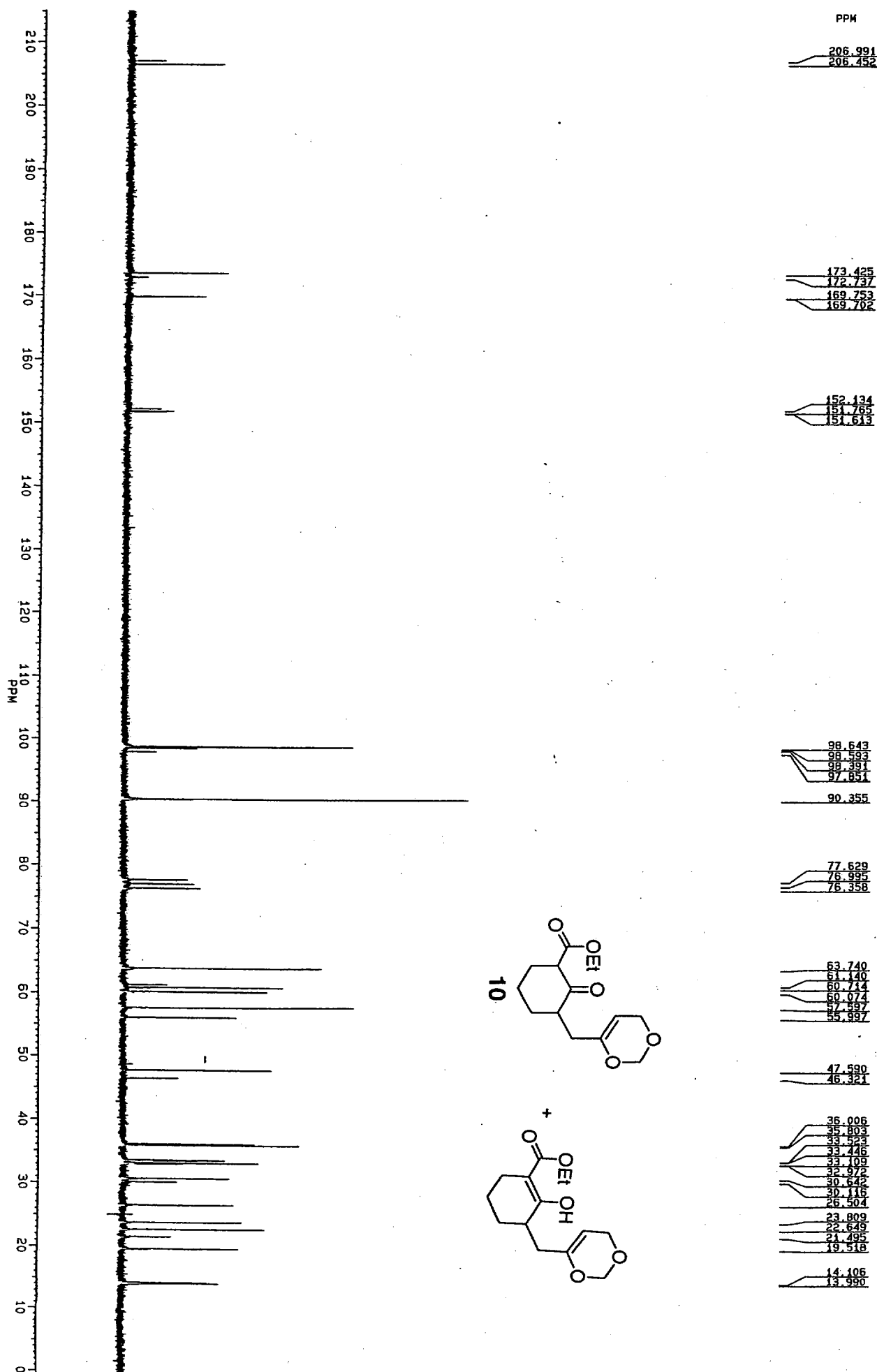
54

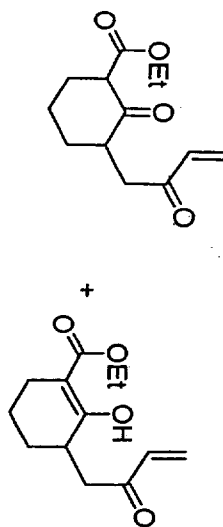
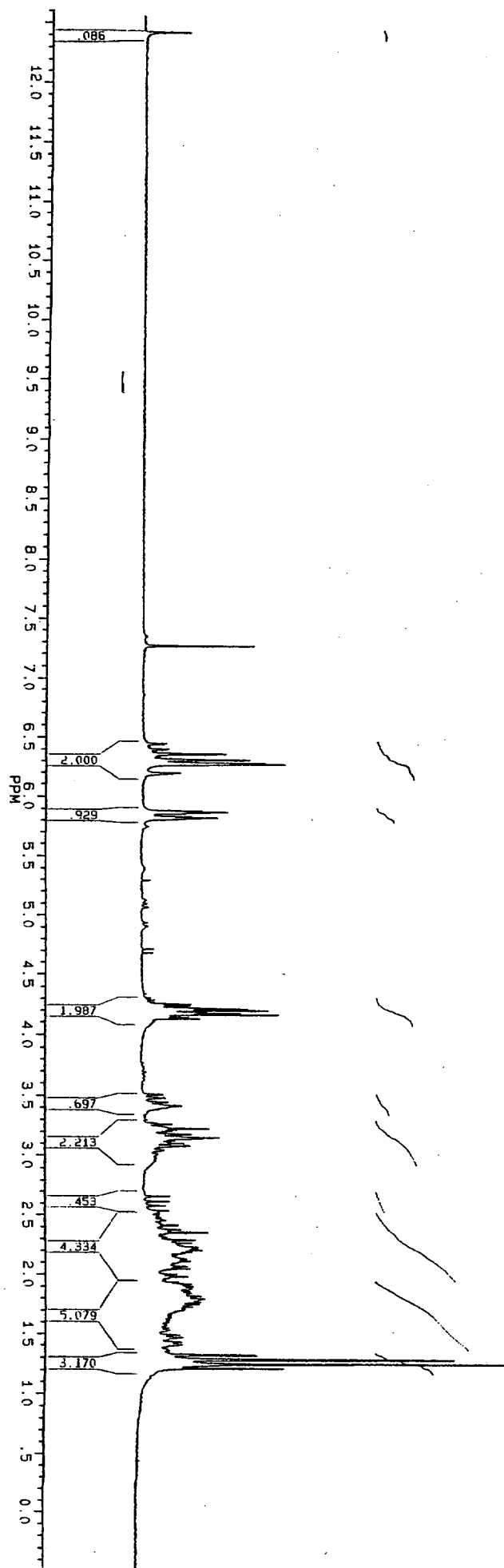


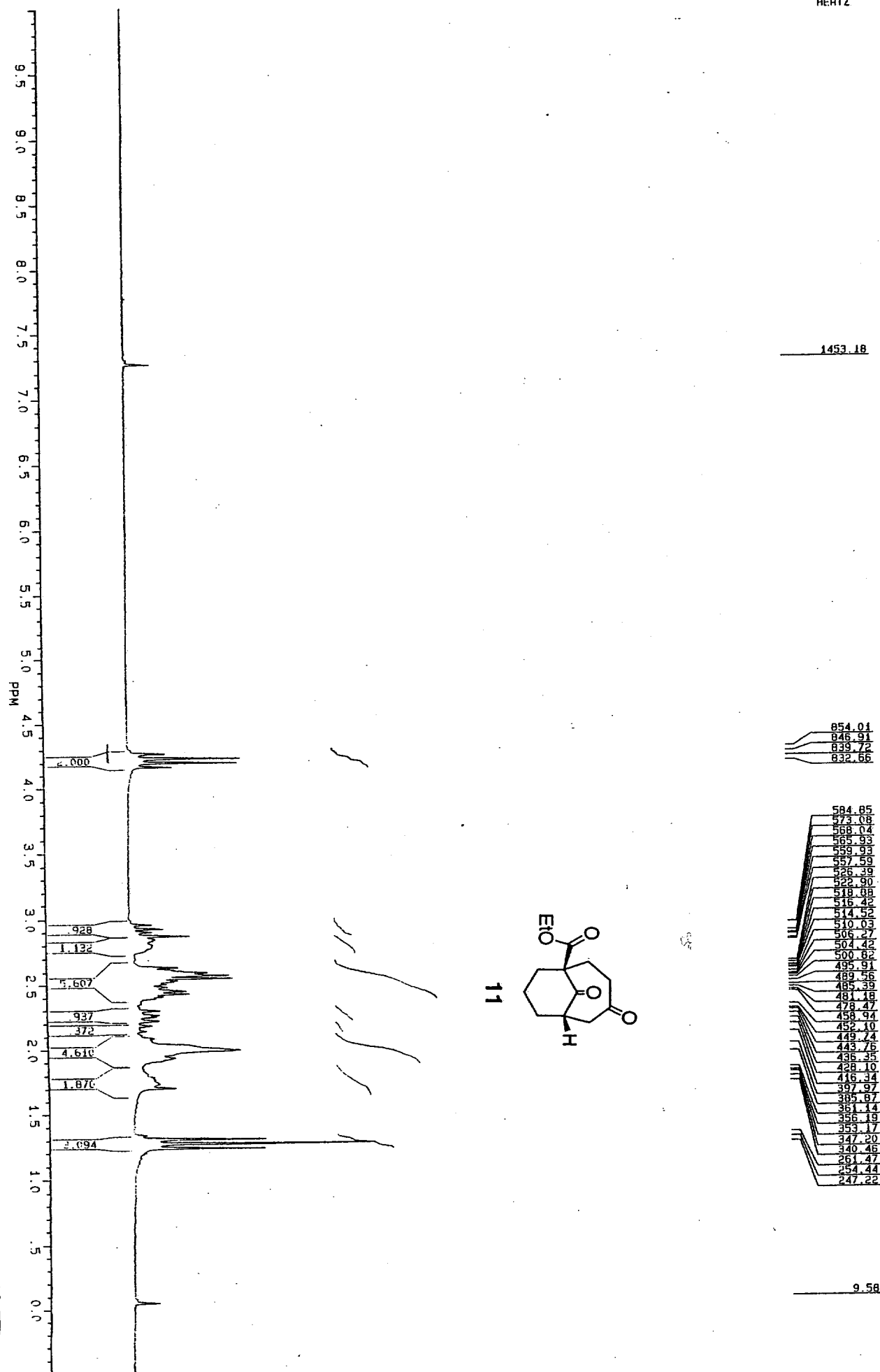
HERTZ
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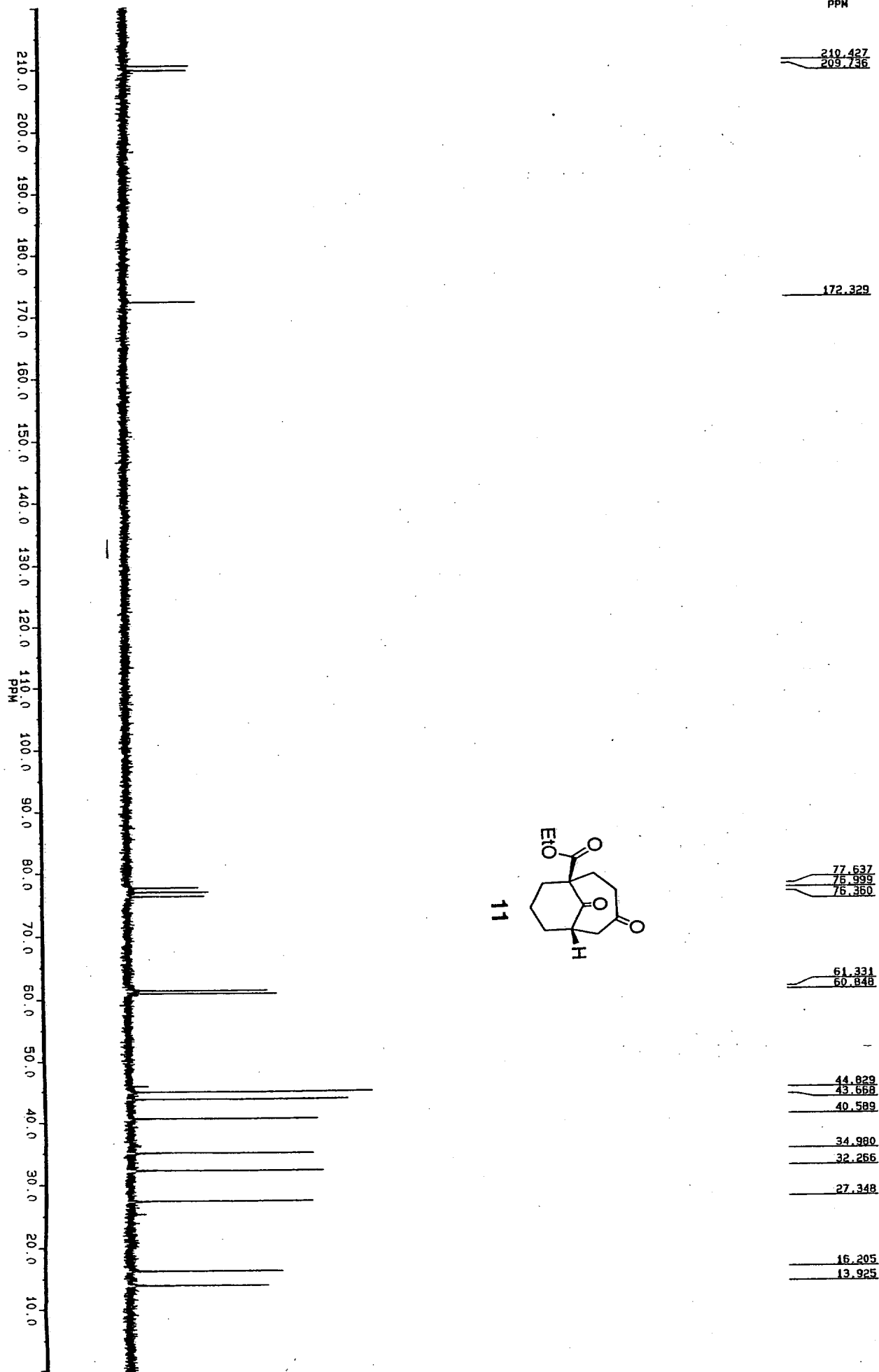
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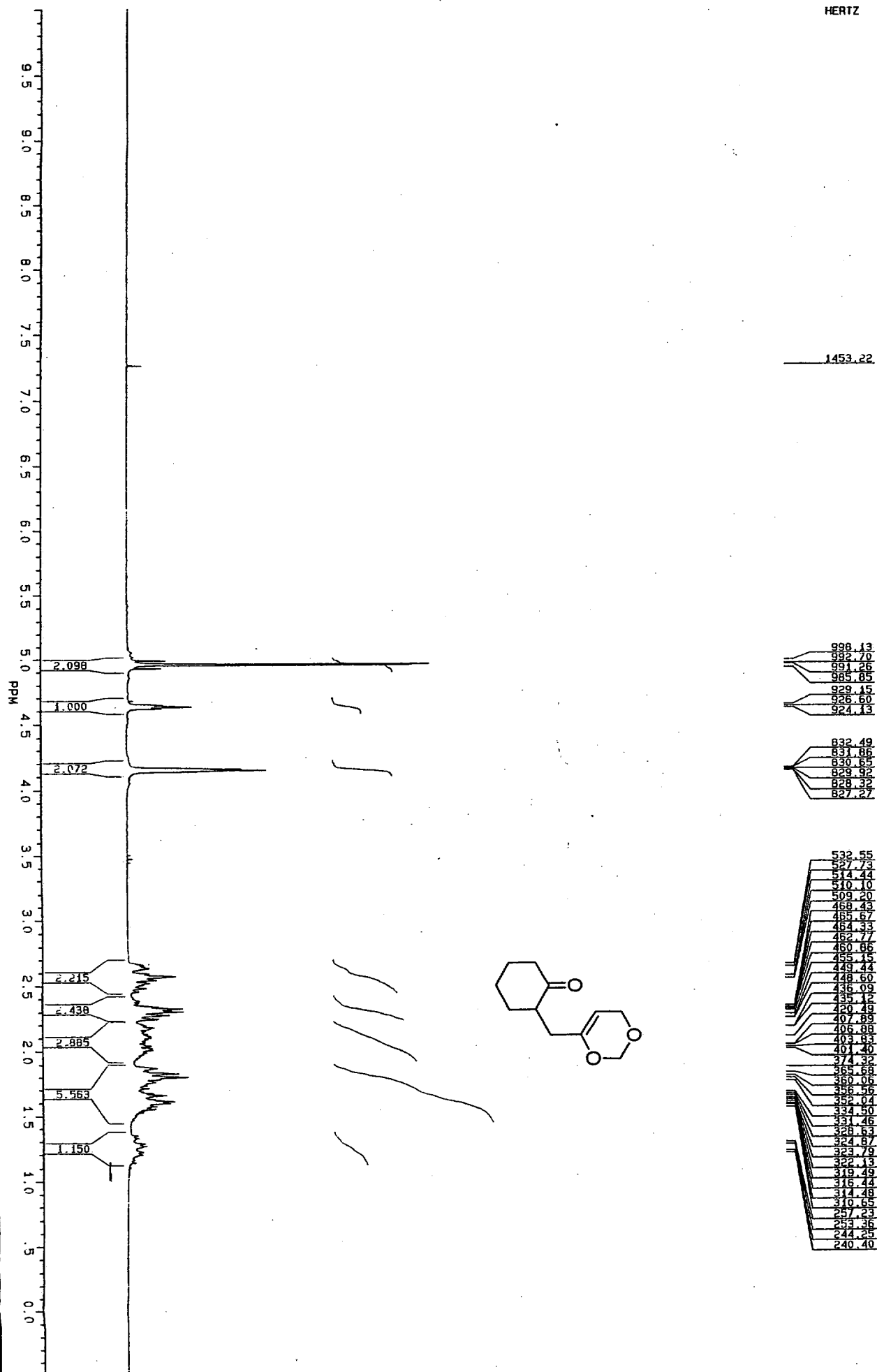


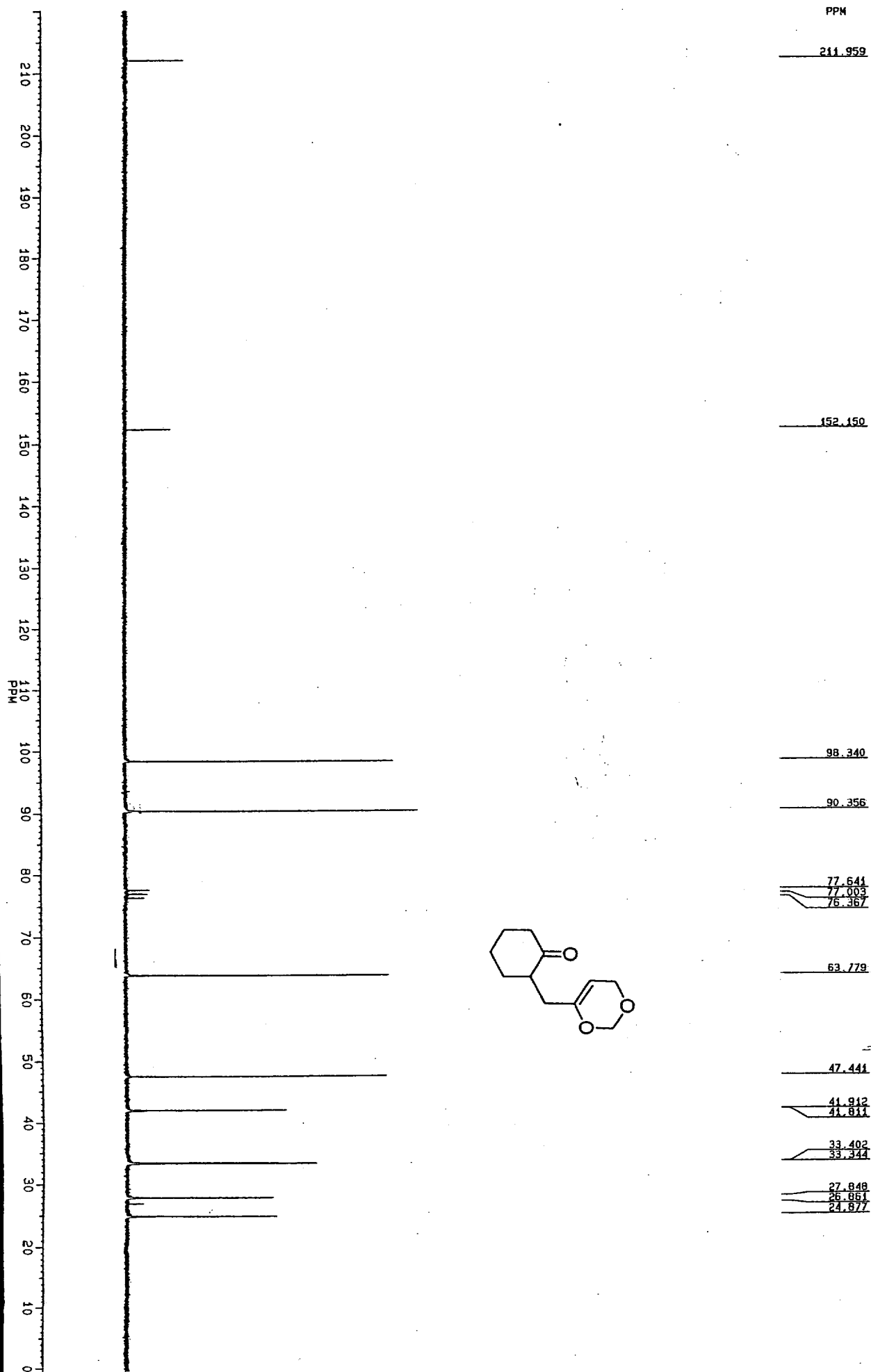




HERTZ

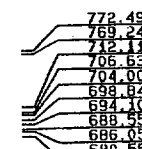
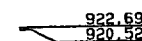
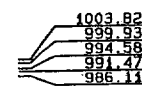
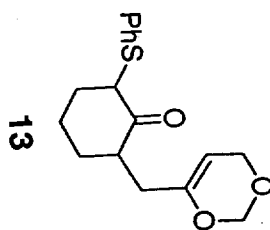
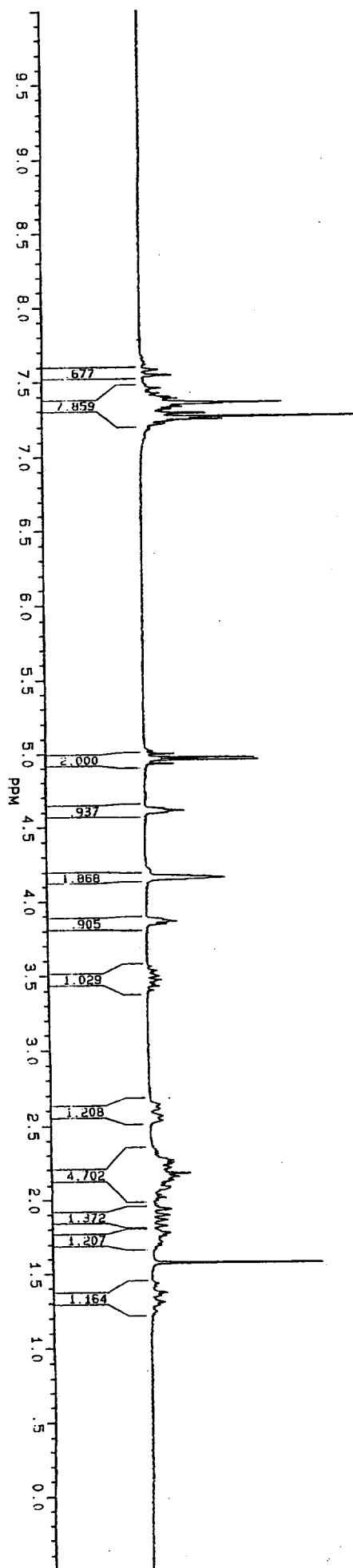
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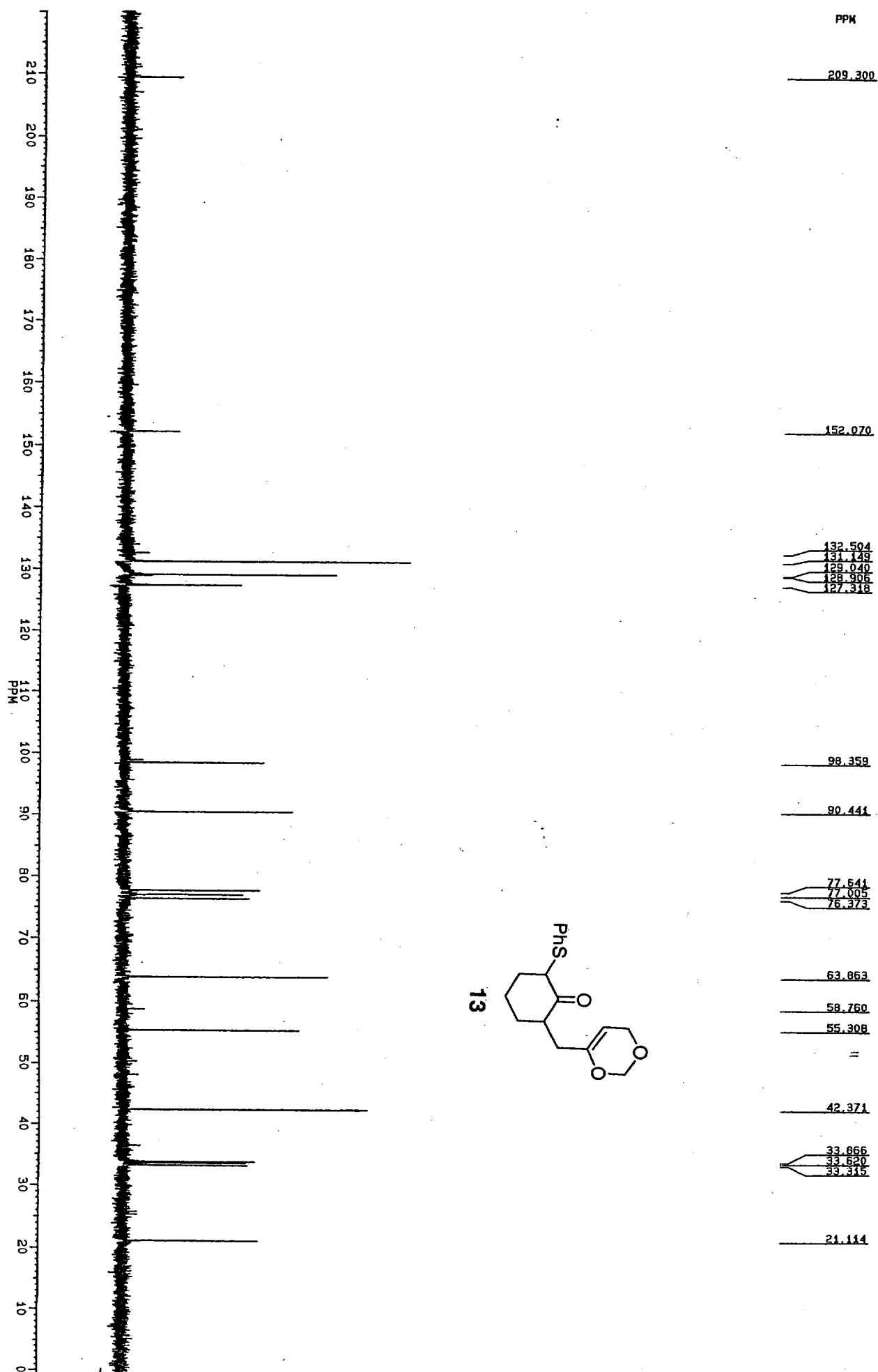


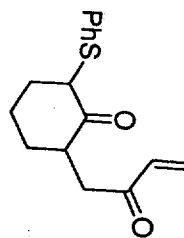
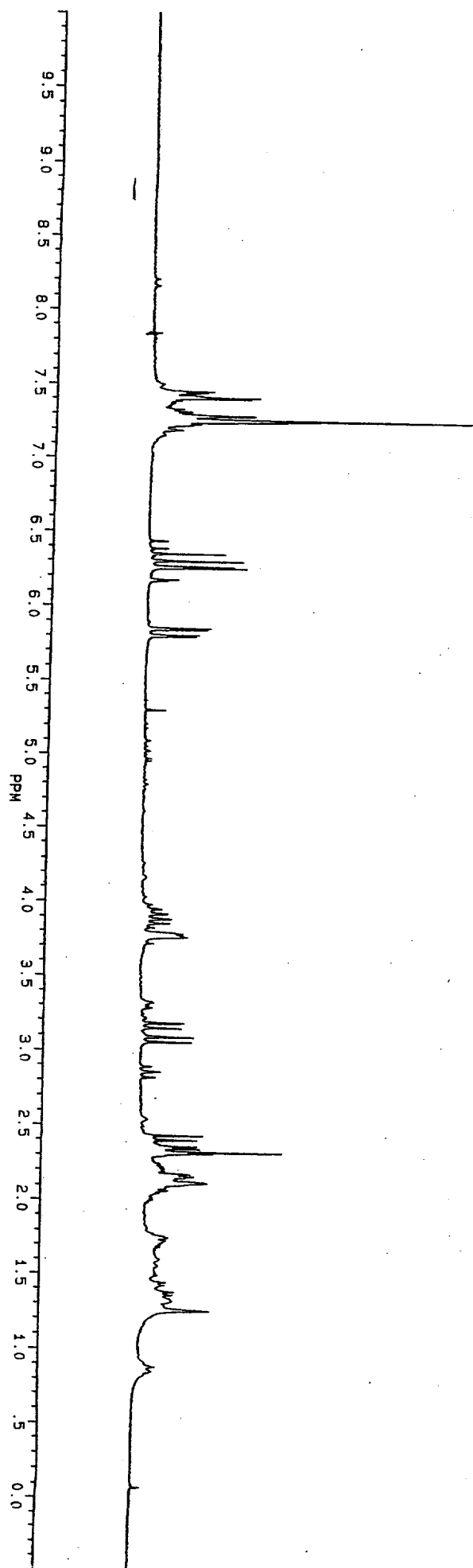


HERTZ

62

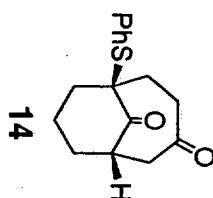
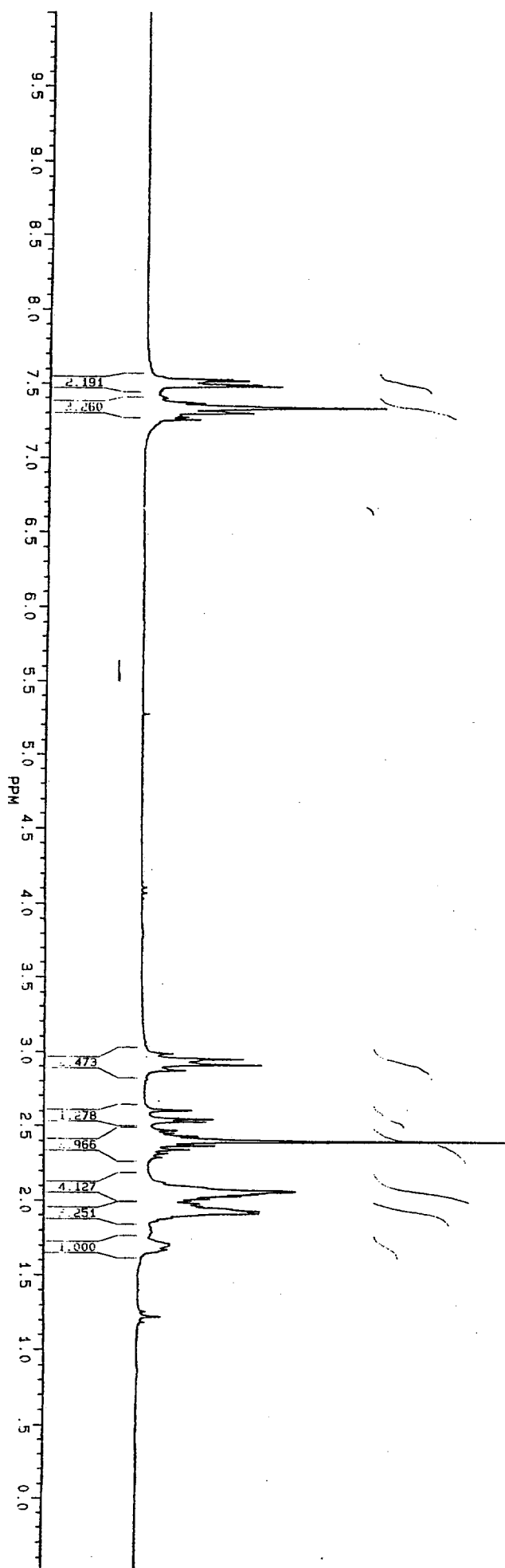






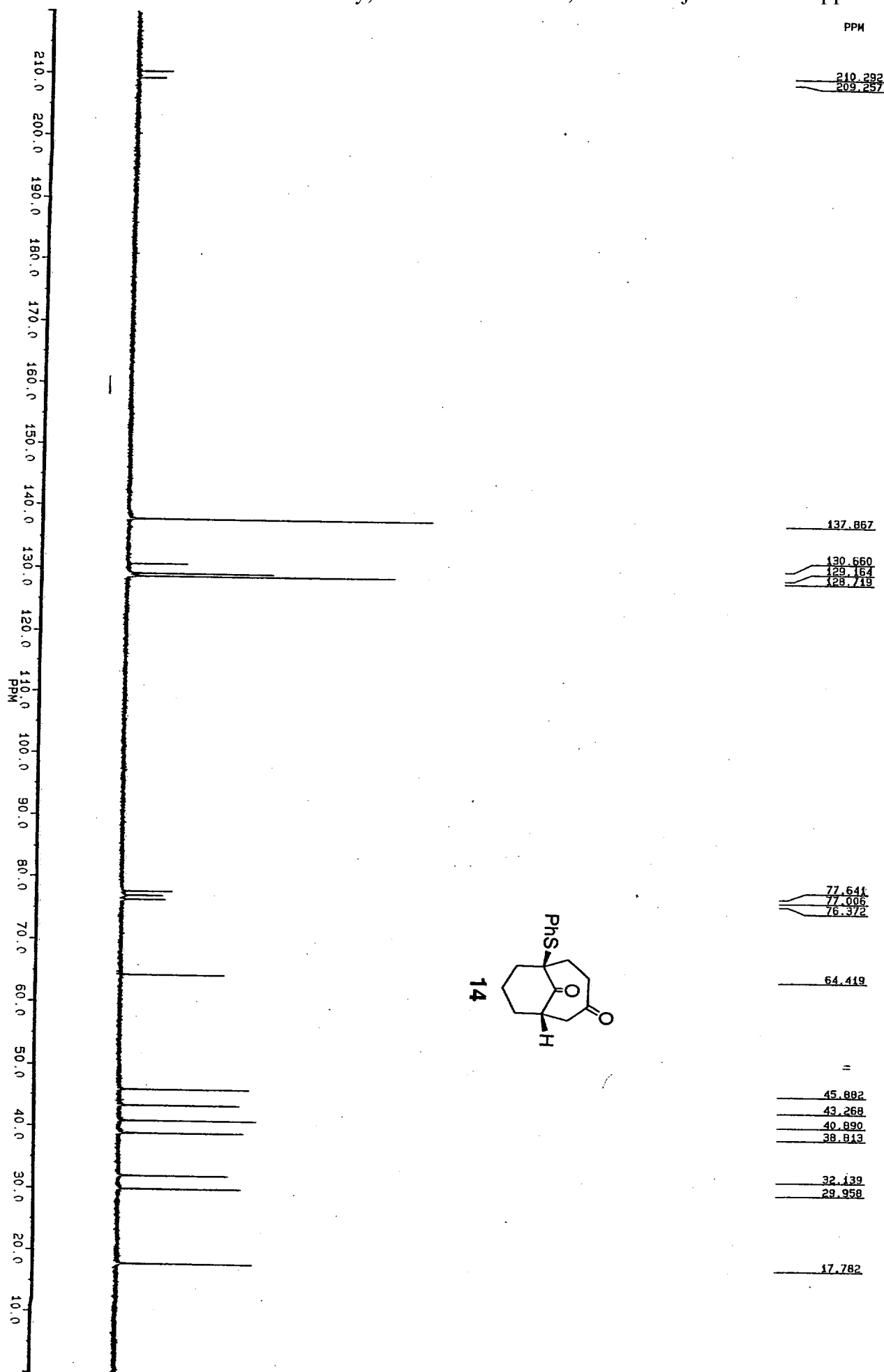
HERTZ

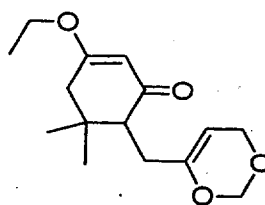
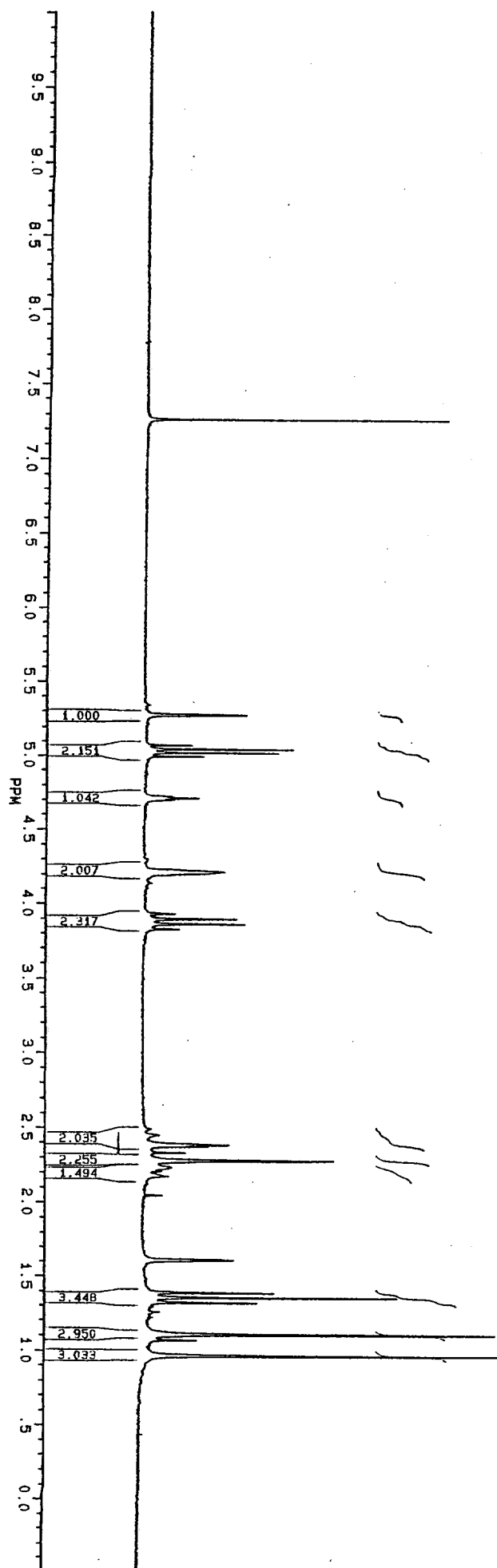
65



1506.97
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1503.74
1501.70
1499.85
1497.85
1473.92
1468.67
1466.84
1461.58
1458.00
1456.05
1453.10

597.96
590.58
582.35
574.98
571.79
569.92
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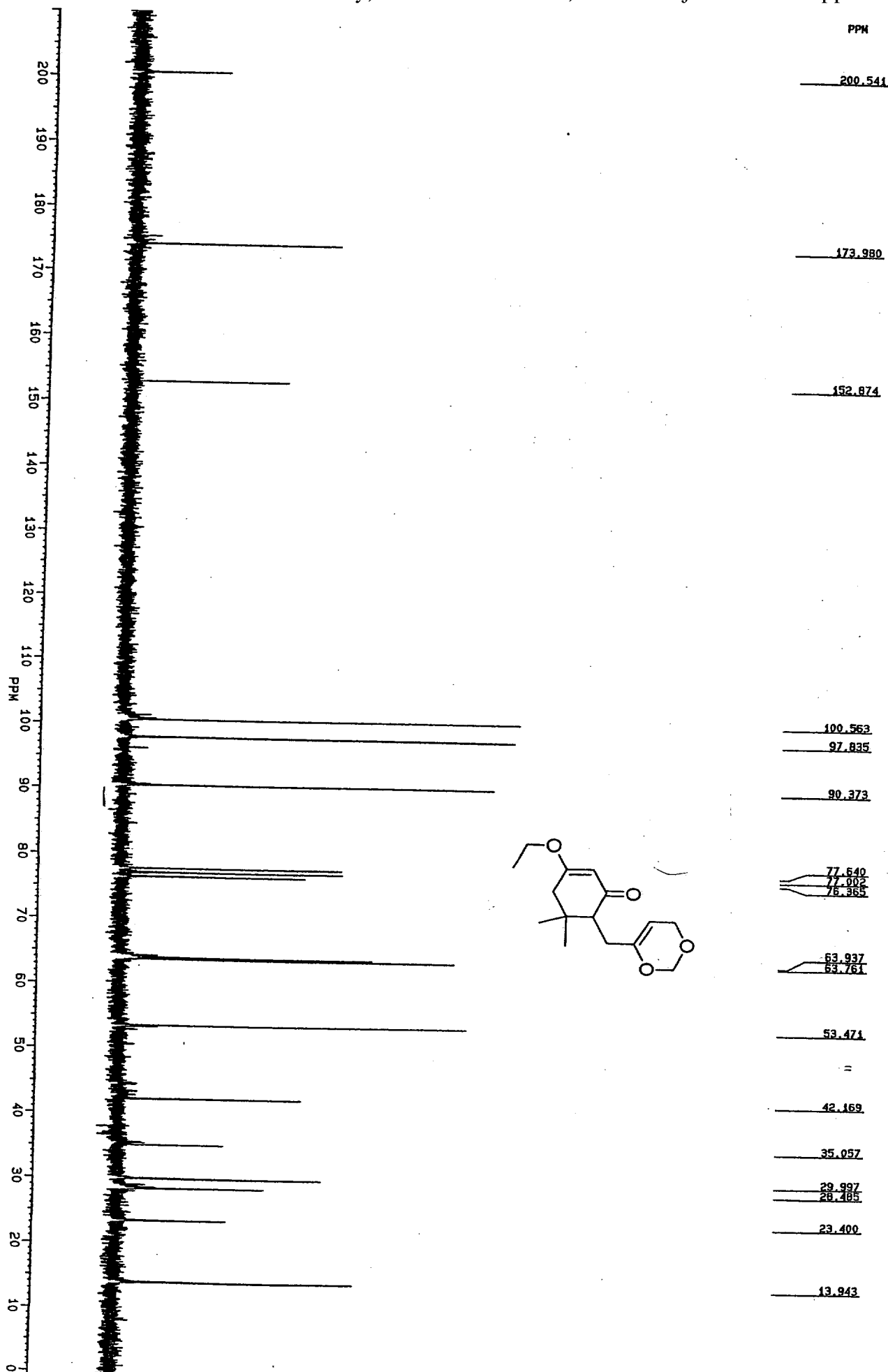
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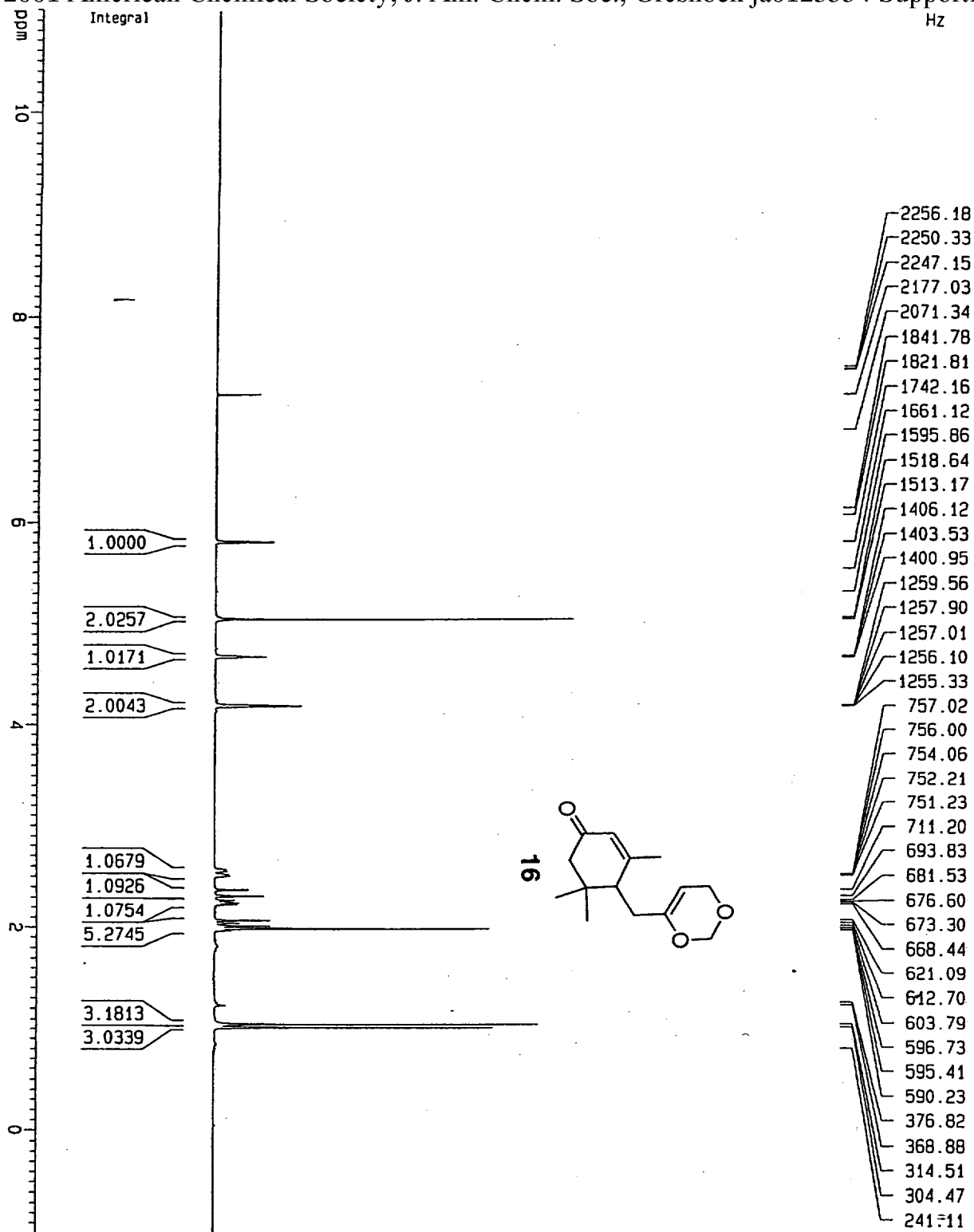
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779.47
772.41
765.39

476.65
474.77
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446.46
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213.67
193.00





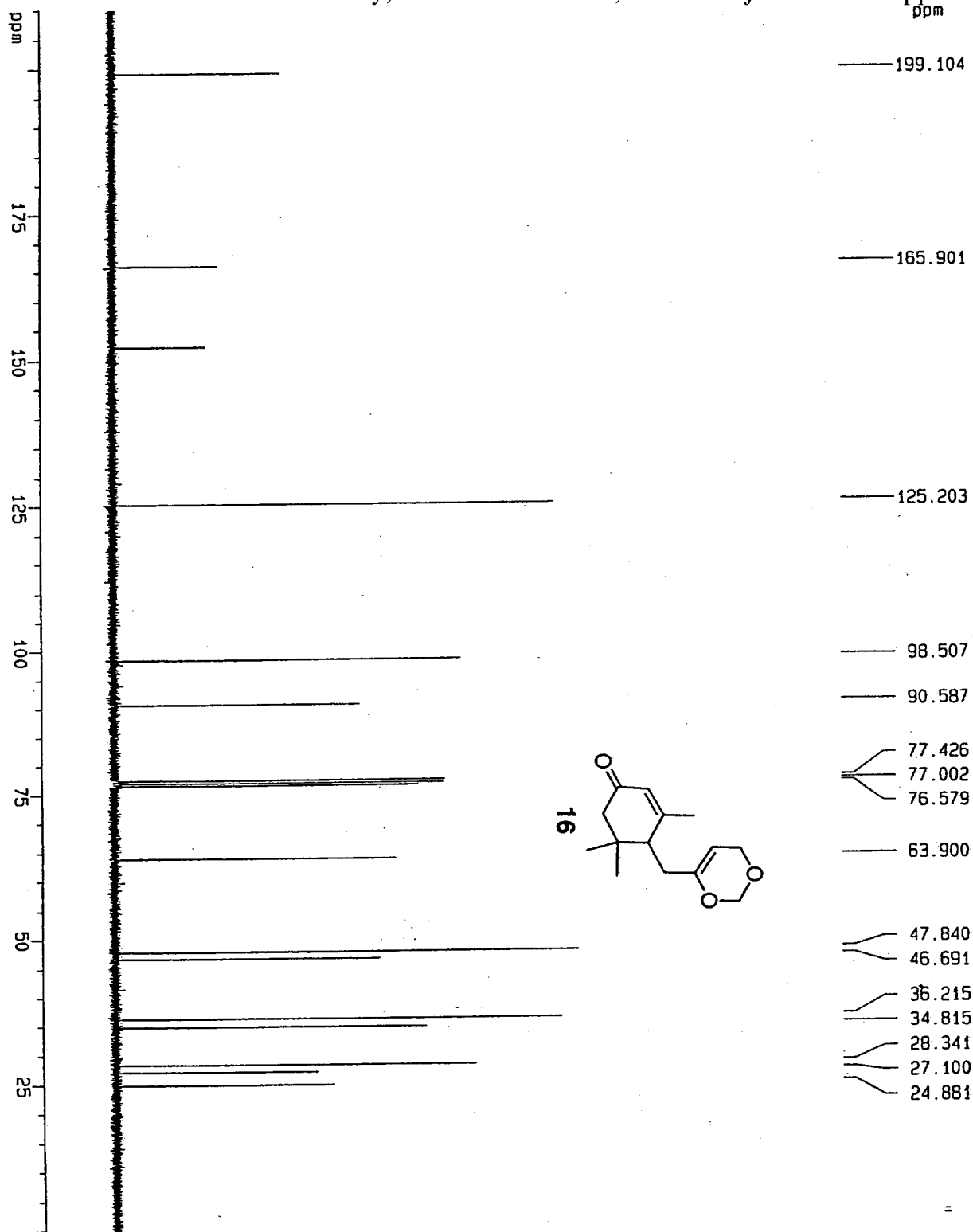
Current Data Parameters
 NAME Funk-08-18-01
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010818
 Time 12:27
 INSTRUM spect
 PROBHD 5 mm QNP 1H/1
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SMH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084650 sec
 RG 114
 DM 81.000 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 11.70 usec
 PL1 0.00 dB
 SF01 299.8718518 MHz

F2 - Processing parameters
 SI 32768
 SF 299.8700101 MHz
 WDW no
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 11.000 ppm
 F1 3298.57 Hz
 F2P -1.000 ppm
 F2 -299.87 Hz
 PPMCM 0.50000 ppm/cm
 HZCM 179.92200 Hz/cm



Current Data Parameters

NAME Funk-08-18-01
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010818
Time 13.34
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TD 65536
SOLVENT COC13
NS 1024
DS 4
SWH 18795.992 Hz
FIDRES 0.286819 Hz
AQ 1.7433076 sec
RG 1024
DM 26.600 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
D12 0.00002000 sec

CHANNEL f1

NUC1 ¹³C
P1 5.40 usec
PL1 -6.00 dB
SFO1 75.4106357 MHz

CHANNEL f2

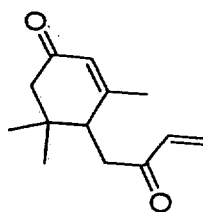
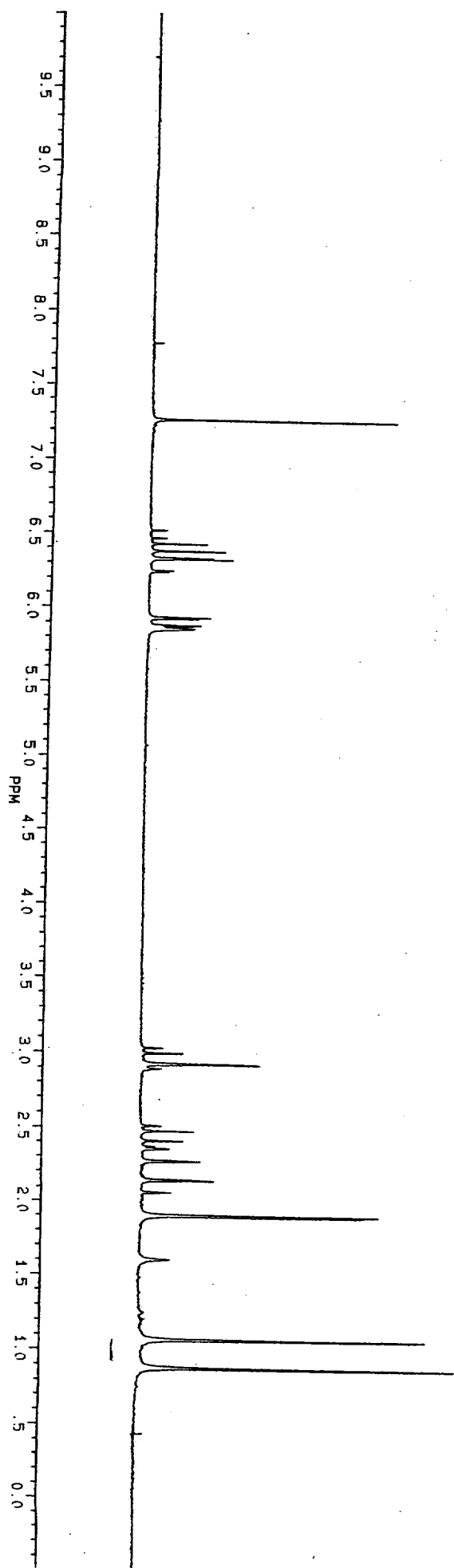
CPDPRG2 waltz16
NUC2 ¹H
PCPD2 115.00 usec
PL2 0.00 dB
PL12 20.00 dB
PL13 20.00 dB
SFO2 299.8711995 MHz

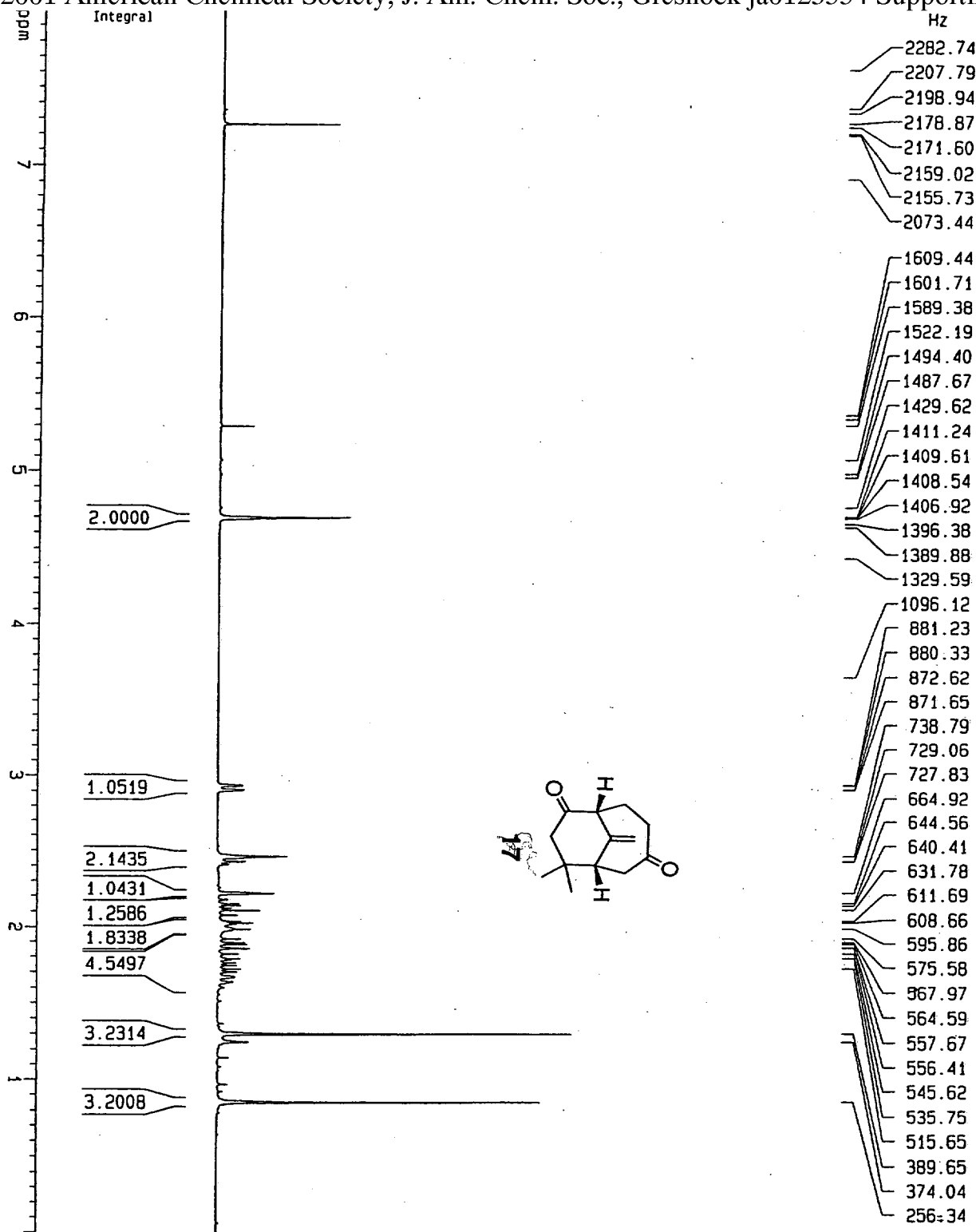
F2 - Processing parameters

SI 32768
SF 75.4023769 MHz
MDM no
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 20.00 cm
F1P 210.000 ppm
F1 15834.50 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 10.50000 ppm/cm
HZCM 791.72491 Hz/cm





Current Data Parameters

NAME Funk-09-26-01

EXPNO 1

PROCNO 1

F2 - Acquisition Parameters

Date_ 20010926

Time 17.35

INSTRUM spect

PROBHD 5 mm Multinu

PULPROG zg30

TD 65536

SOLVENT CDCl3

NS 16

DS 2

SWH 6172.839 Hz

FIDRES 0.094190 Hz

AQ 5.3084660 sec

RG 362

DM 81.000 usec

DE 5.00 usec

TE 300.0 K

D1 1.00000000 sec

----- CHANNEL f1 -----

NUC1 1H

P1 9.80 usec

PL1 -6.00 dB

SFO1 300.1318534 MHz

F2 - Processing parameters

SI 32768

SF 300.1300052 MHz

WDW no

SSB 0

LB 0.00 Hz

GB 0

PC 1.00

1D NMR plot parameters

CX 20.00 cm

F1P 8.000 ppm

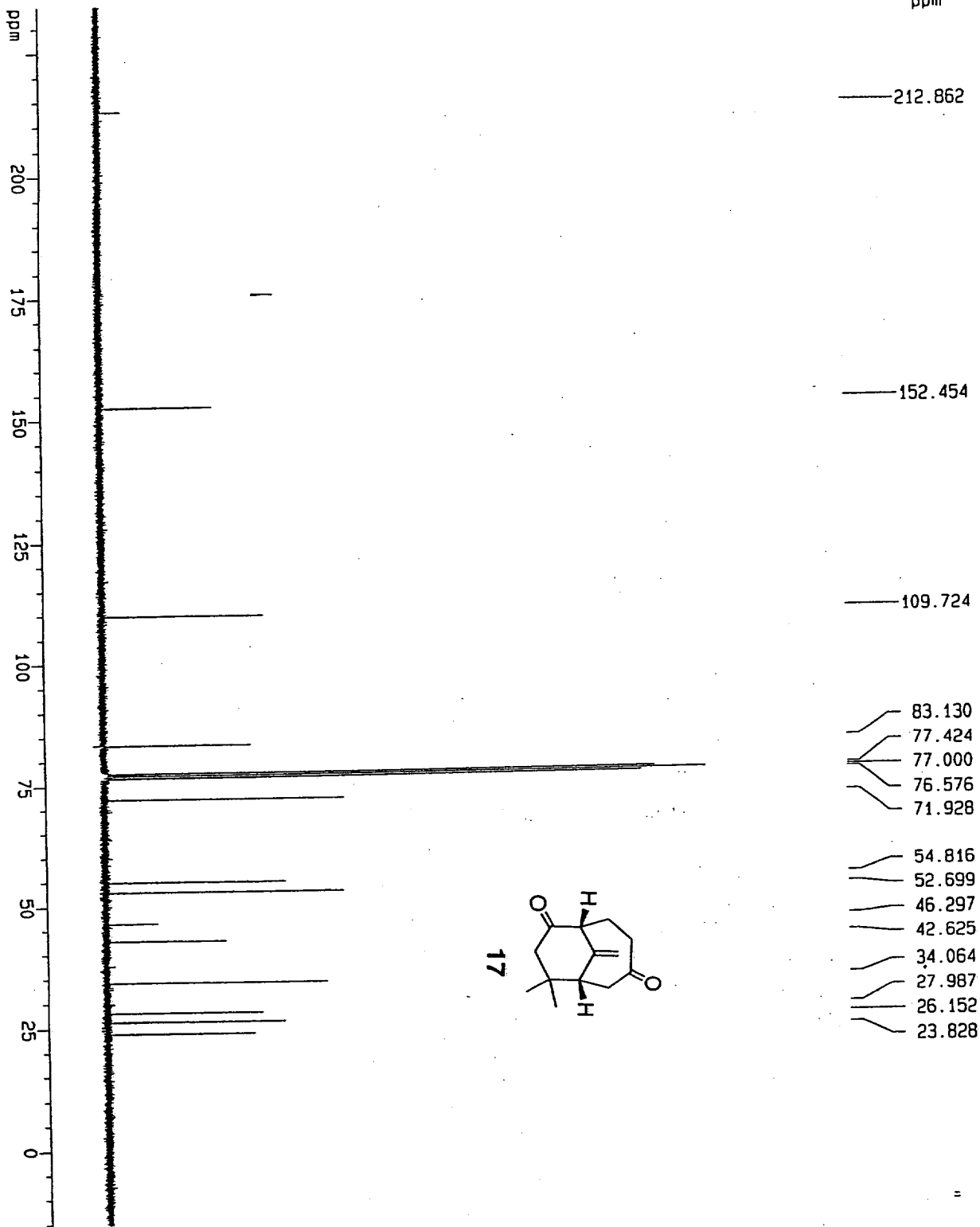
F1 2401.04 Hz

F2P 0.000 ppm

F2 0.00 Hz

PPMCM 0.40000 ppm/cm

HZCM 120.05200 Hz/cm



Current Data Parameters
NAME Funk-09-26-01
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010927
Time 7.21
INSTRUM spect
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 8774
DS 4
OS 18832.393 Hz
SMH 0.287360 Hz
FIDRES 1.7400308 sec
AQ 16384
RG 26.550 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00020000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 5.60 usec
PL1 -6.00 dB
SF01 75.4760200 MHz

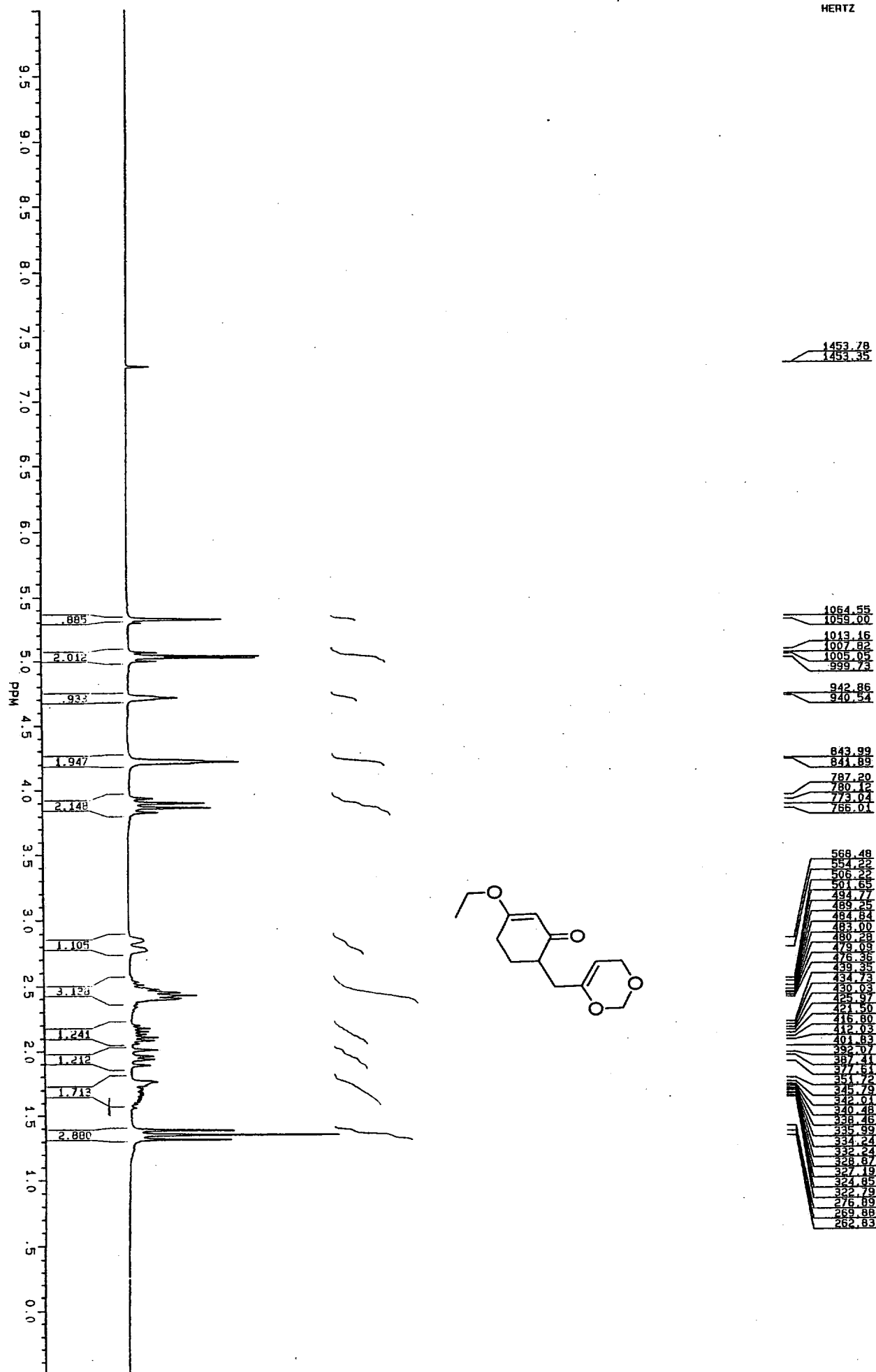
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 114.00 usec
PL2 -6.00 dB
PL12 18.00 dB
PL13 18.00 dB
SF02 300.1312005 MHz

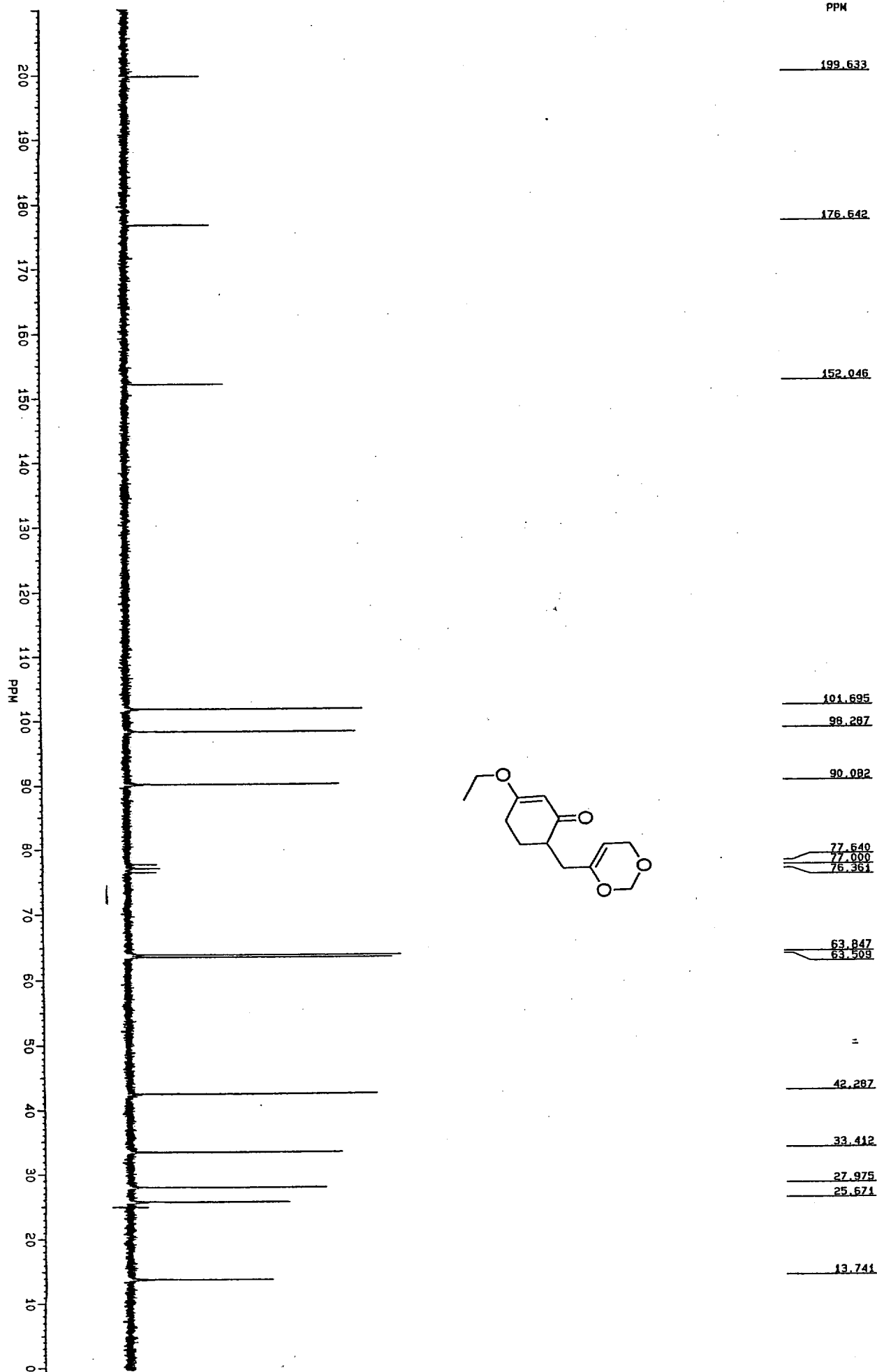
F2 - Processing Parameters
SI 32768
SF 75.4677509 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

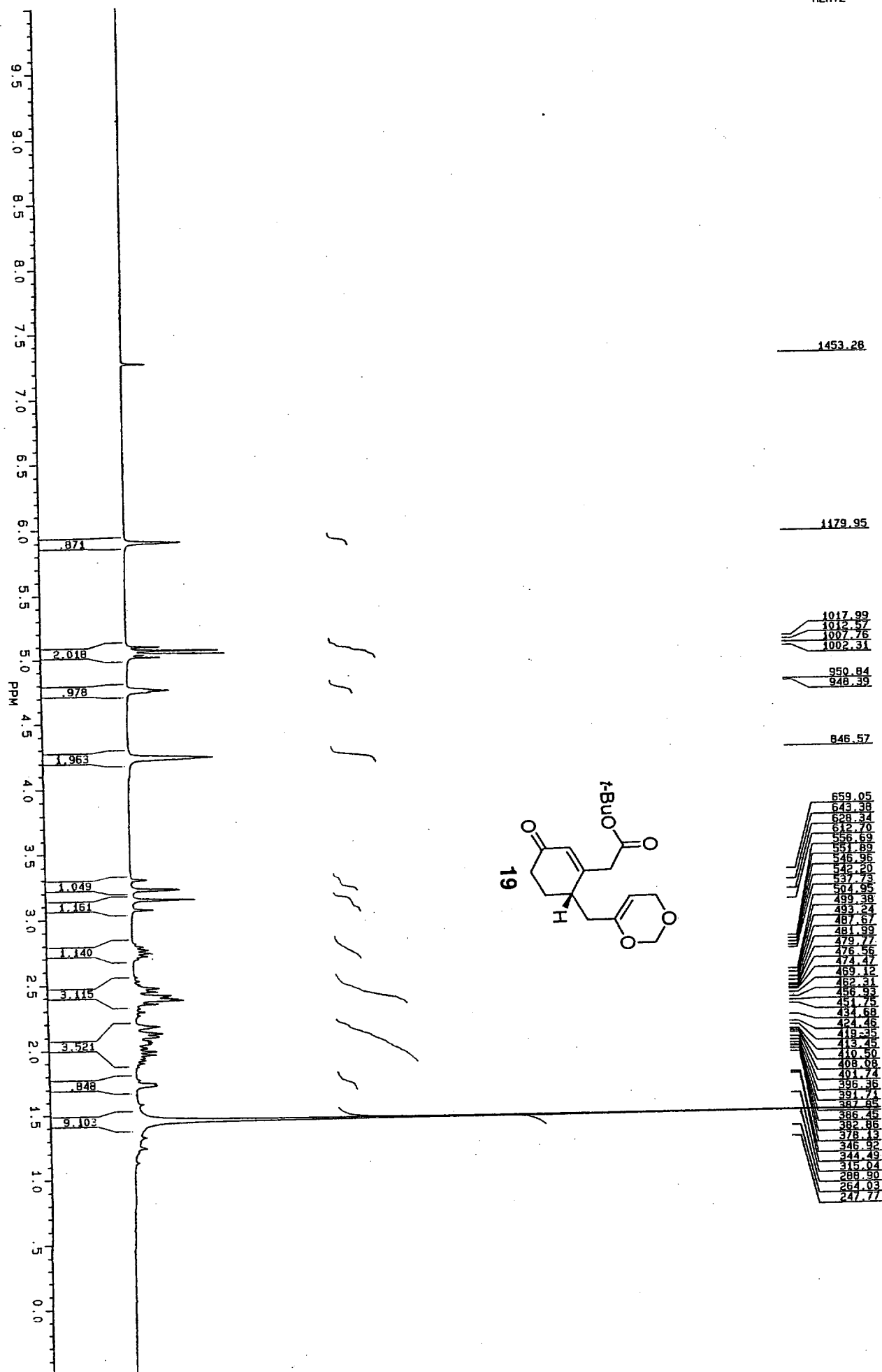
1D NMR plot parameters
CX 20.00 cm
F1P 234.342 ppm
F1 17685.29 Hz
F2P -15.200 ppm
F2 -1147.10 Hz
PPMCM 12.47711 ppm/cm
HZCM 941.61957 Hz/cm

HERTZ

74

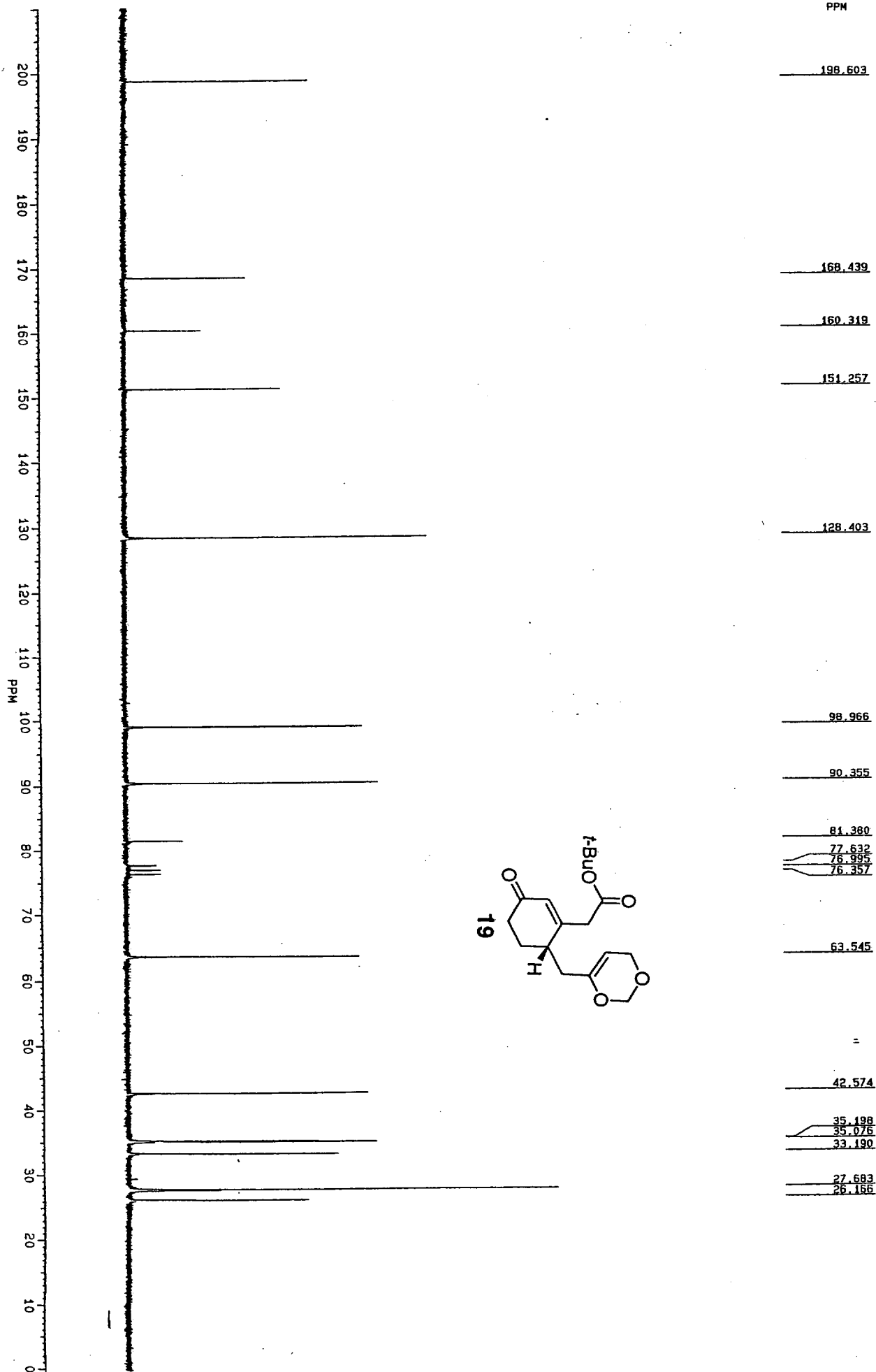


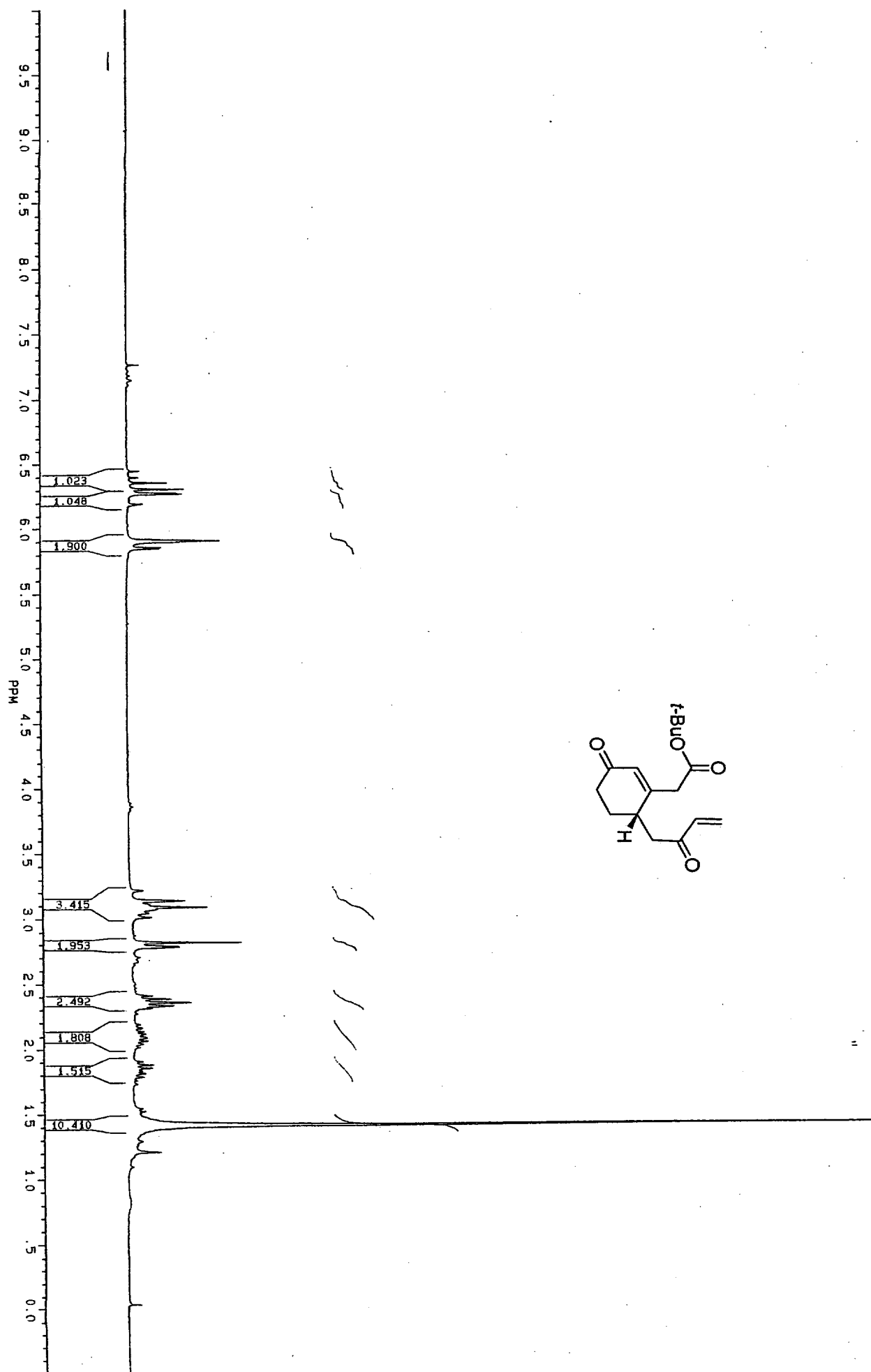


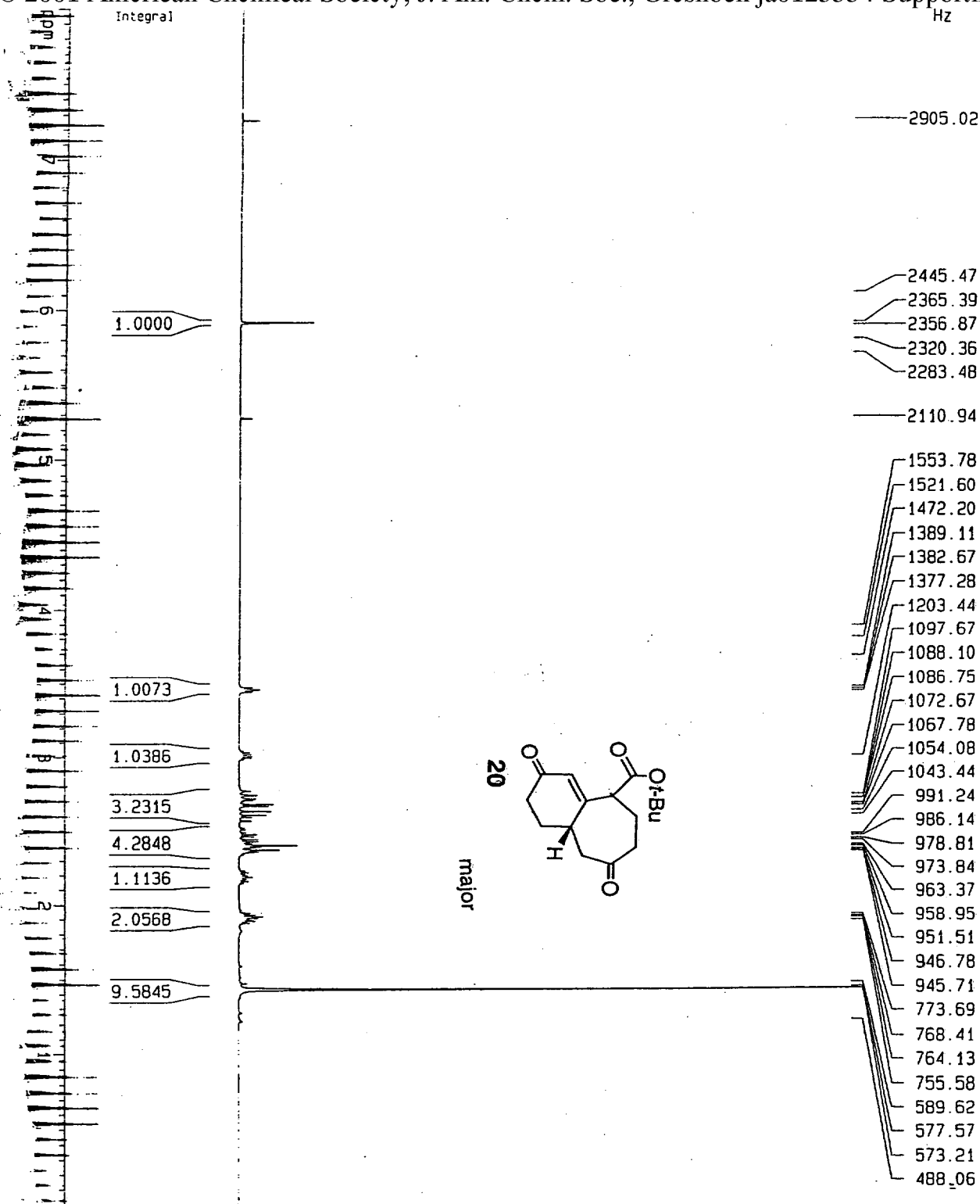


PPM

77







Current Data Parameters

NAME Funk-10-2-01

EXPNO 2

PROCNO 1

F2 - Acquisition Parameters

Date_ 20011002

Time 16.15

INSTRUM spect

PROBHD 5 mm BBI 1H-B

PULPROG zg

TD 65536

SOLVENT CDCl3

NS 1

DS 0

SMH 8278.123 Hz

FIDRES 0.126314 Hz

AQ 3.9584351 sec

RG 14.3

DH 60.400 usec

DE 6.00 usec

TE 300.0 K

D1 1.00000000 sec

***** CHANNEL f1 *****

NUC1 1H

P1 6.95 usec

PL1 0.00 dB

SFO1 400.1313920 MHz

F2 - Processing parameters

SI 32768

SF 400.1300091 MHz

WDW no

SSB 0

LB 0.00 Hz

GB 0

PC 1.00

1D NMR plot parameters

CX 20.00 cm

F1P 8.000 ppm

F1 3201.04 Hz

F2P 0.000 ppm

F2 0.00 Hz

PPHCH 0.40000 ppm/cm

HZCM 160.05200 Hz/cm

