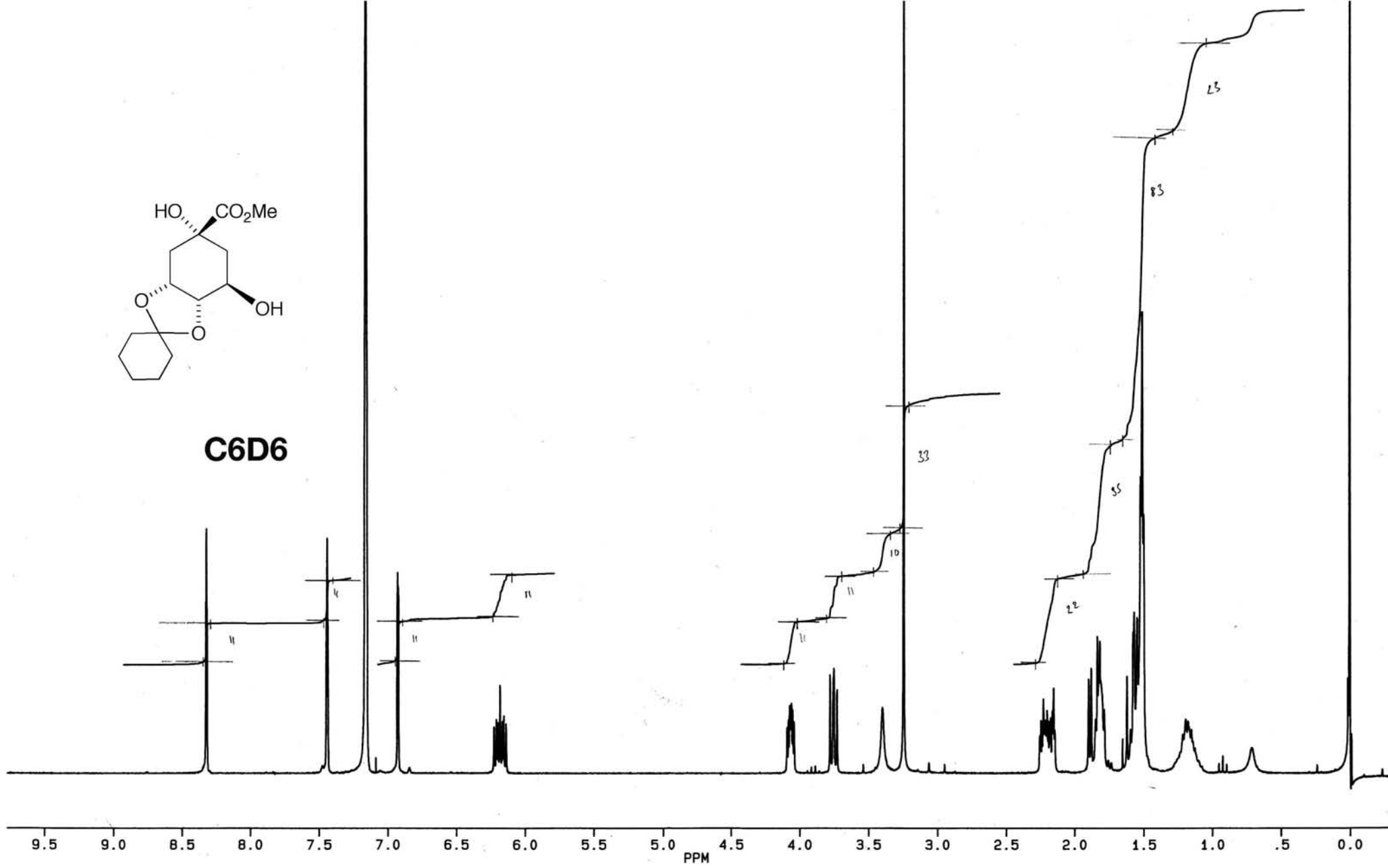
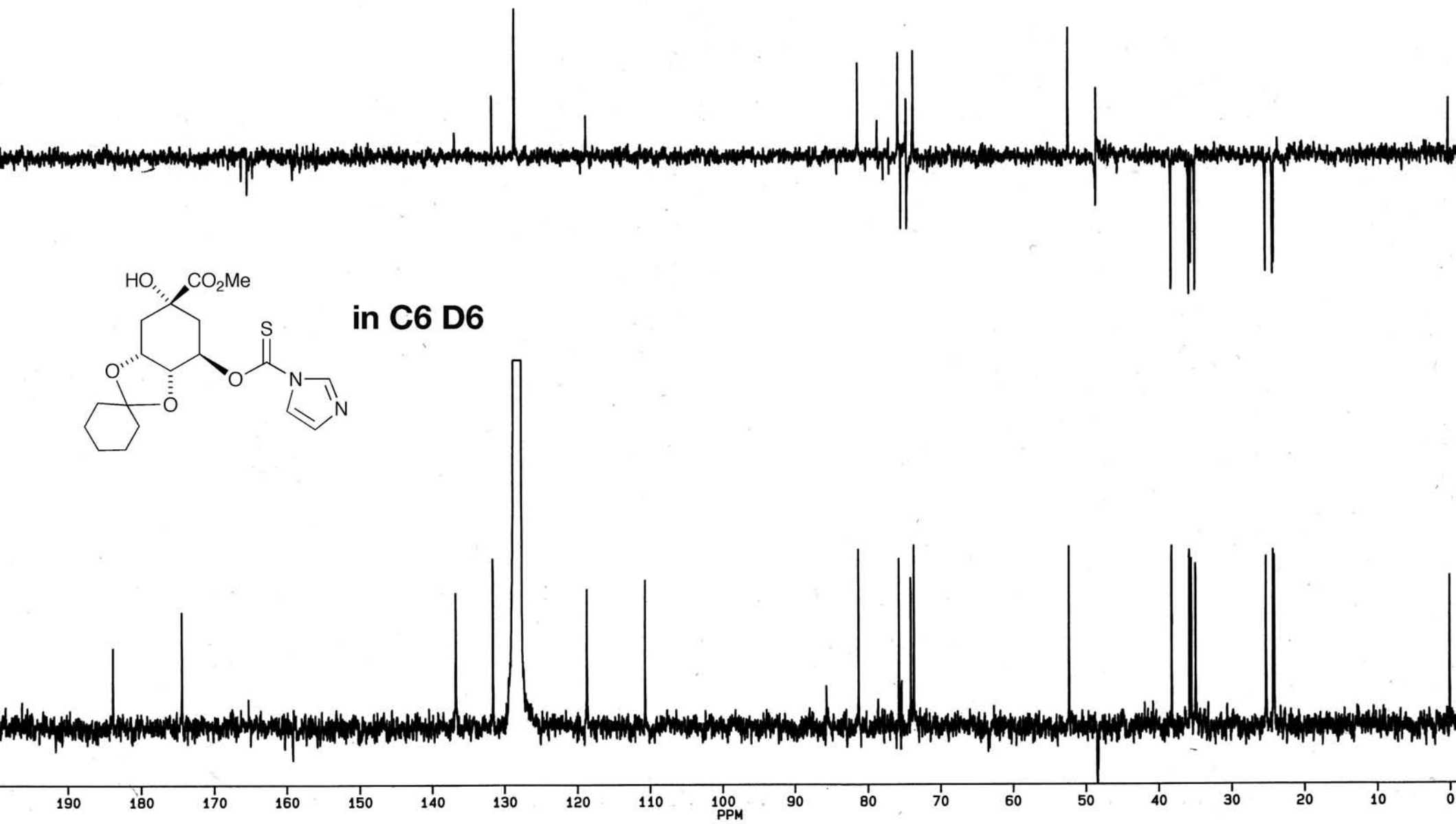
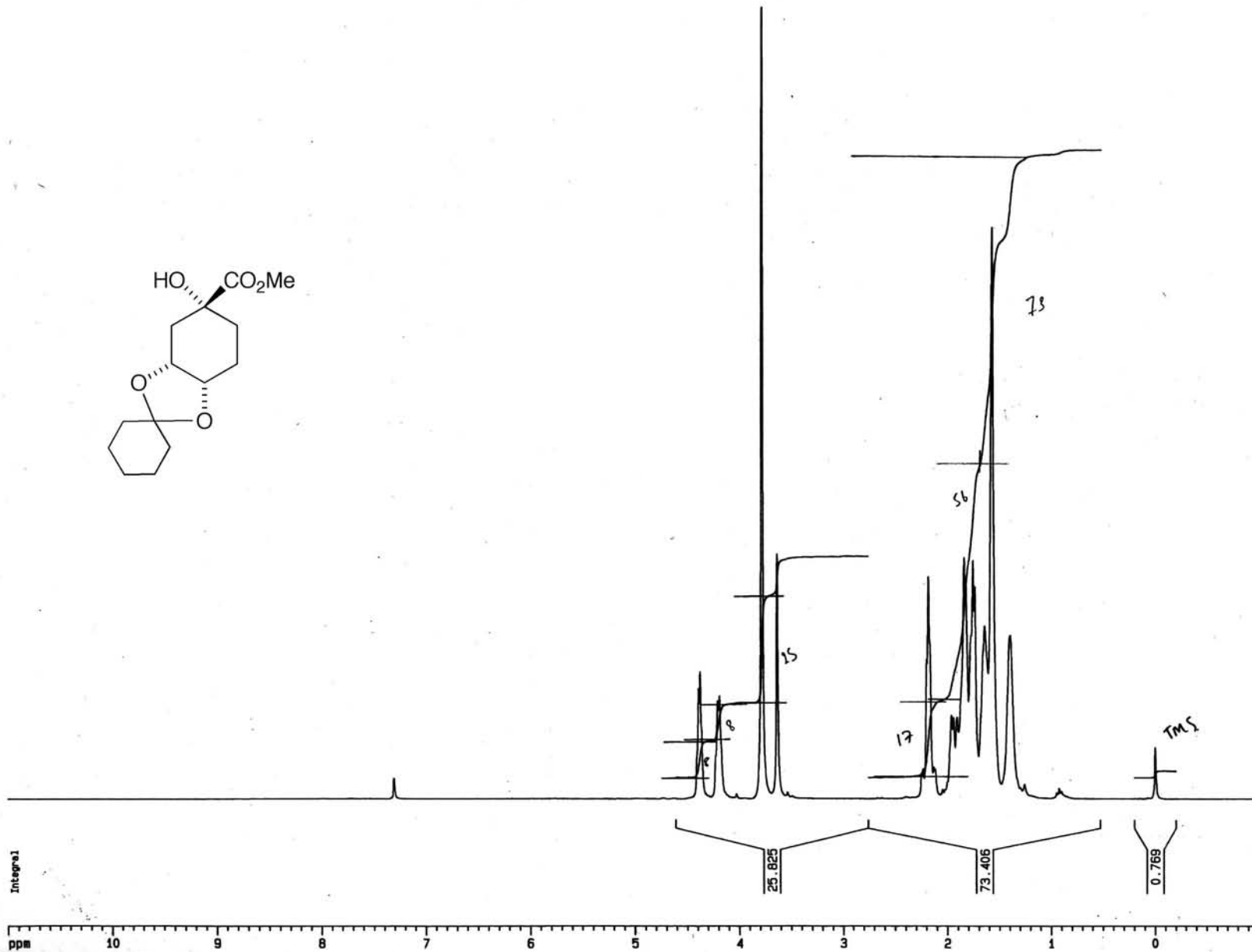
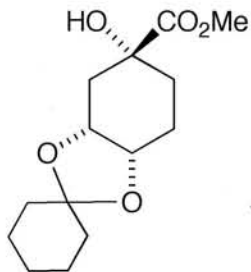


C6D6







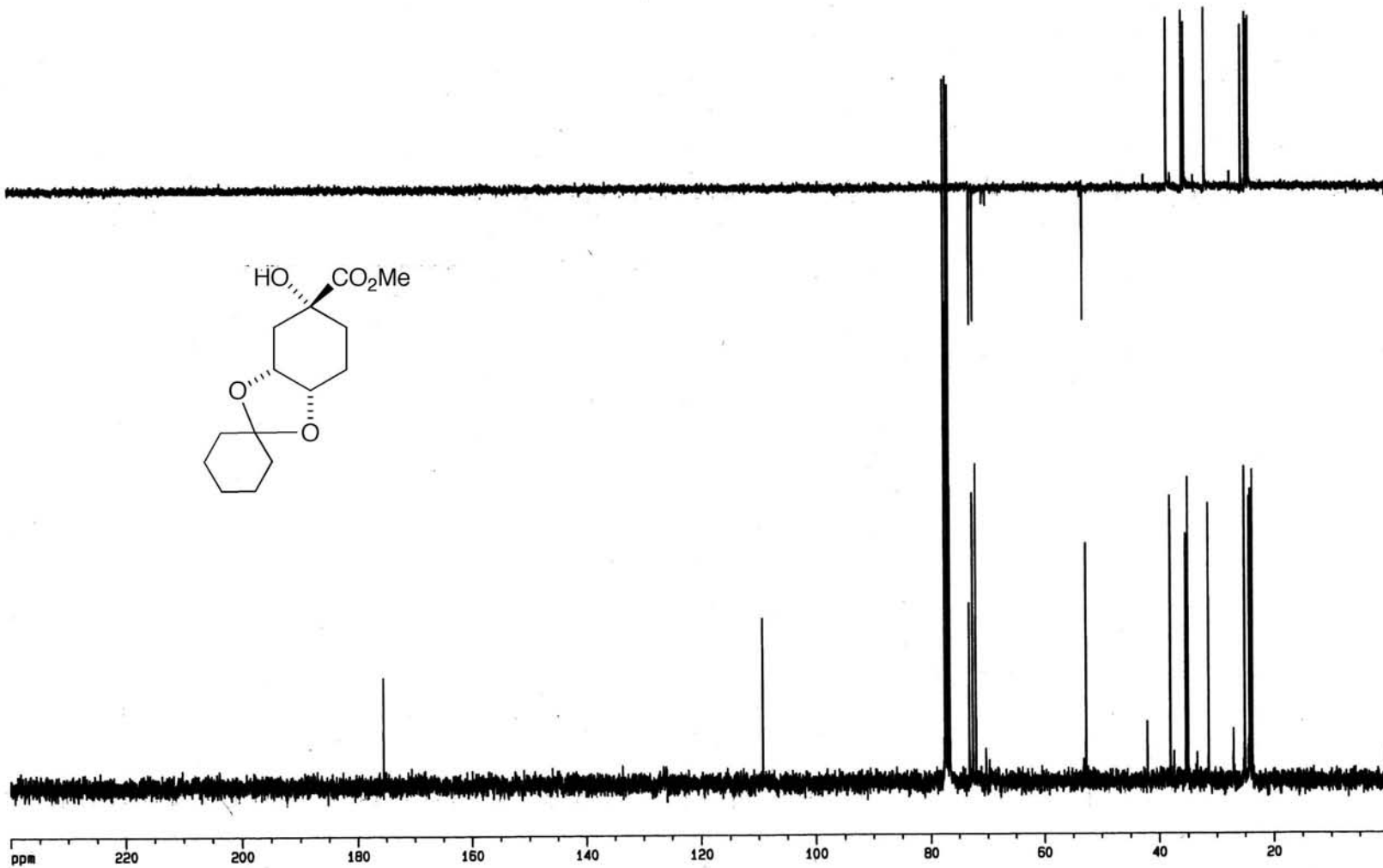
Current Data Parameters
 NAME jd234x
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 970904
 Time 15.39
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zg30
 TD 32768
 SOLVENT CDC13
 NS 16
 DS 2
 SMH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 71.8
 DM 81.000 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 10.50 usec
 DE 5.50 usec
 SFO1 300.1318534 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300003 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/
 HZCM 120.05200 Hz/c

ppm



175.439

109.211

77.462
77.058
76.634
73.194
72.562
72.017
70.286
69.717
53.156
52.675
41.994
38.037
37.365
35.334
34.957
33.360
31.409
27.023
25.014
24.330
24.210
24.034
23.694

0.000

Current Data Parameters

NAME id290 JD291
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters

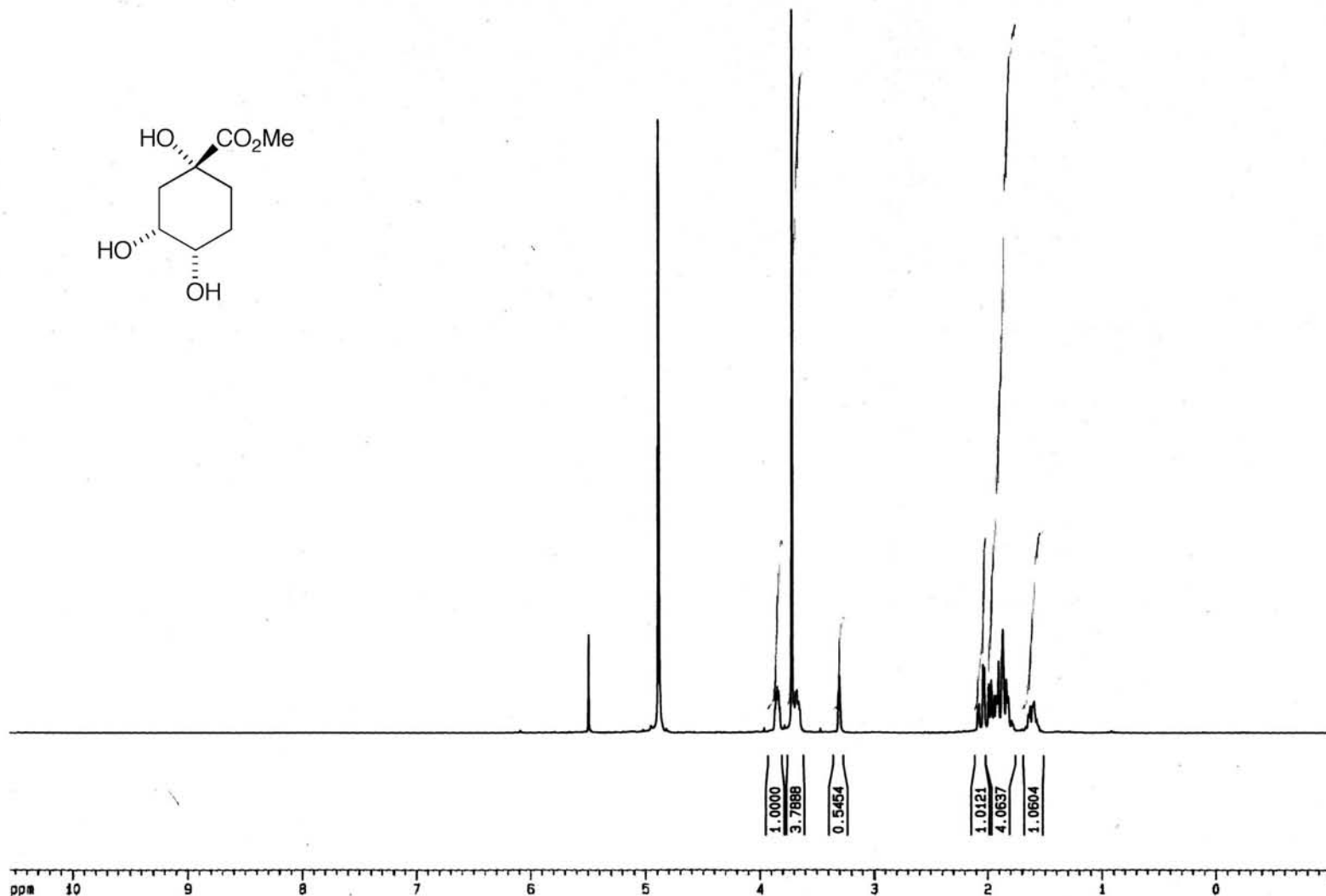
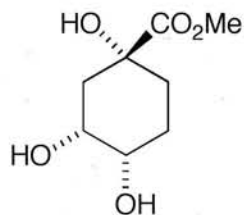
Date_ 980113
Time 21.38
INSTRUM dpx300
PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 2
SMH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 1024
DM 21.000 usec
DE 5.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 18.00 dB
D1 1.00000000 sec
CPDPRG2 waltz16
PCPD2 100.00 usec
SF02 300.1312005 MHz
NUC2 1H
PL2 -6.00 dB
PL12 16.00 dB
P1 6.00 usec
DE 5.50 usec
SF01 75.4772501 MHz
NUC1 13C
PL1 -3.00 dB
D11 0.03000000 sec

F2 - Processing parameters

SI 32768
SF 75.4677497 MHz
WDW EN
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 30.00 cm
F1P 240.000 ppm
F1 18112.26 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCH 8.00000 ppm/cm
HZCH 603.74194 Hz/cm



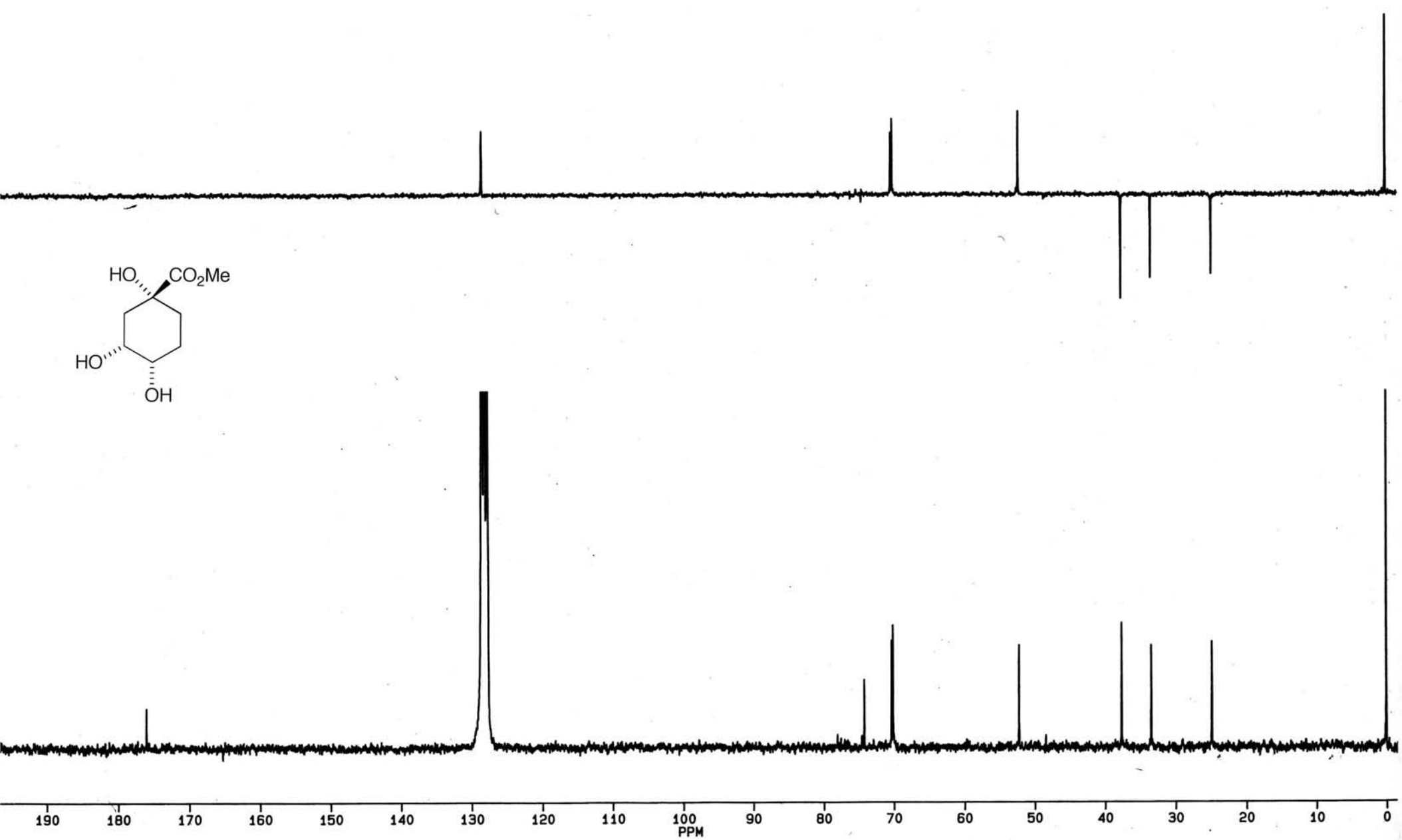
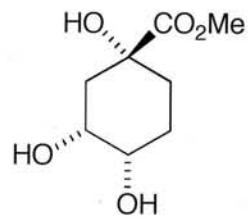
Current Data Parameters
 NAME atj09meoh
 EXPNO 1
 PROCNO 1

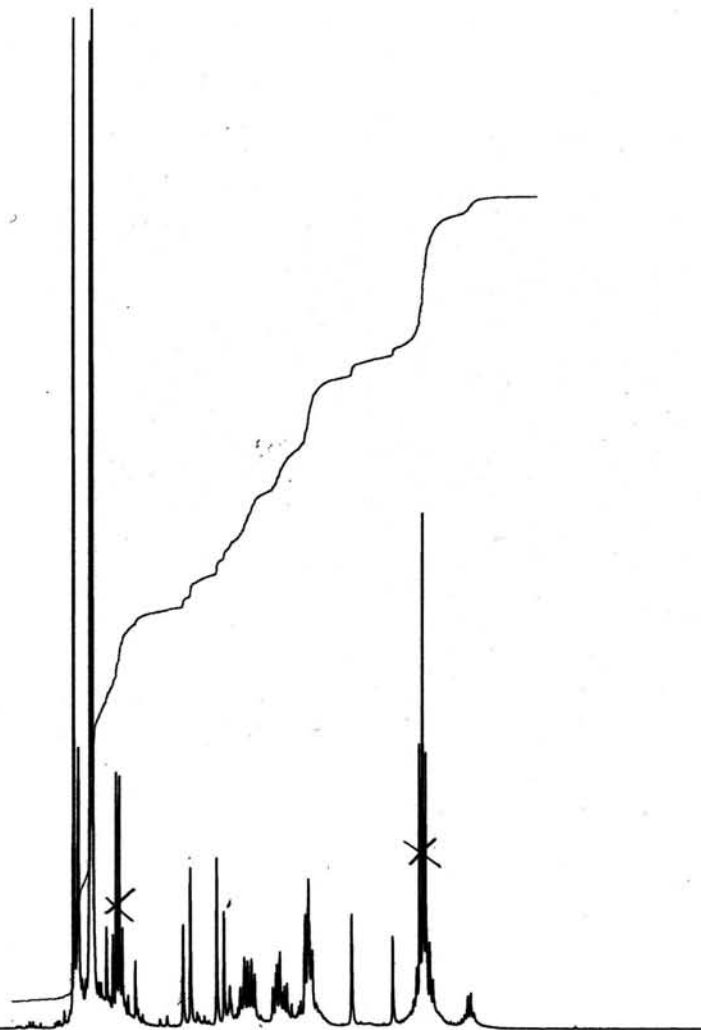
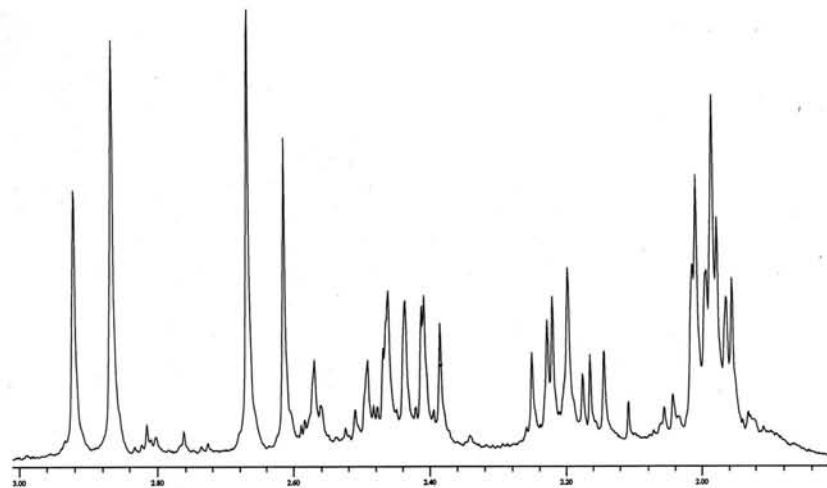
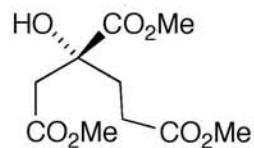
F2 - Acquisition Parameters
 Date_ 20010322
 Time 11.10
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zg30
 TD 32768
 SOLVENT MeOH
 NS 1
 DS 2
 SWH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 203.2
 DW 103.800 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 10.50 usec
 PL1 -6.00 dB
 SF01 300.1307620 MHz

F2 - Processing parameters
 SI 16384
 SF 300.1300059 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05200 Hz/cm





Current Data Parameters
 NAME at115c1m
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 50000
 Time 1.49
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 181
 DM 81.000 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 10.50 usec
 DE 5.50 usec
 SF01 300.1318534 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300306 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05202 Hz/cm

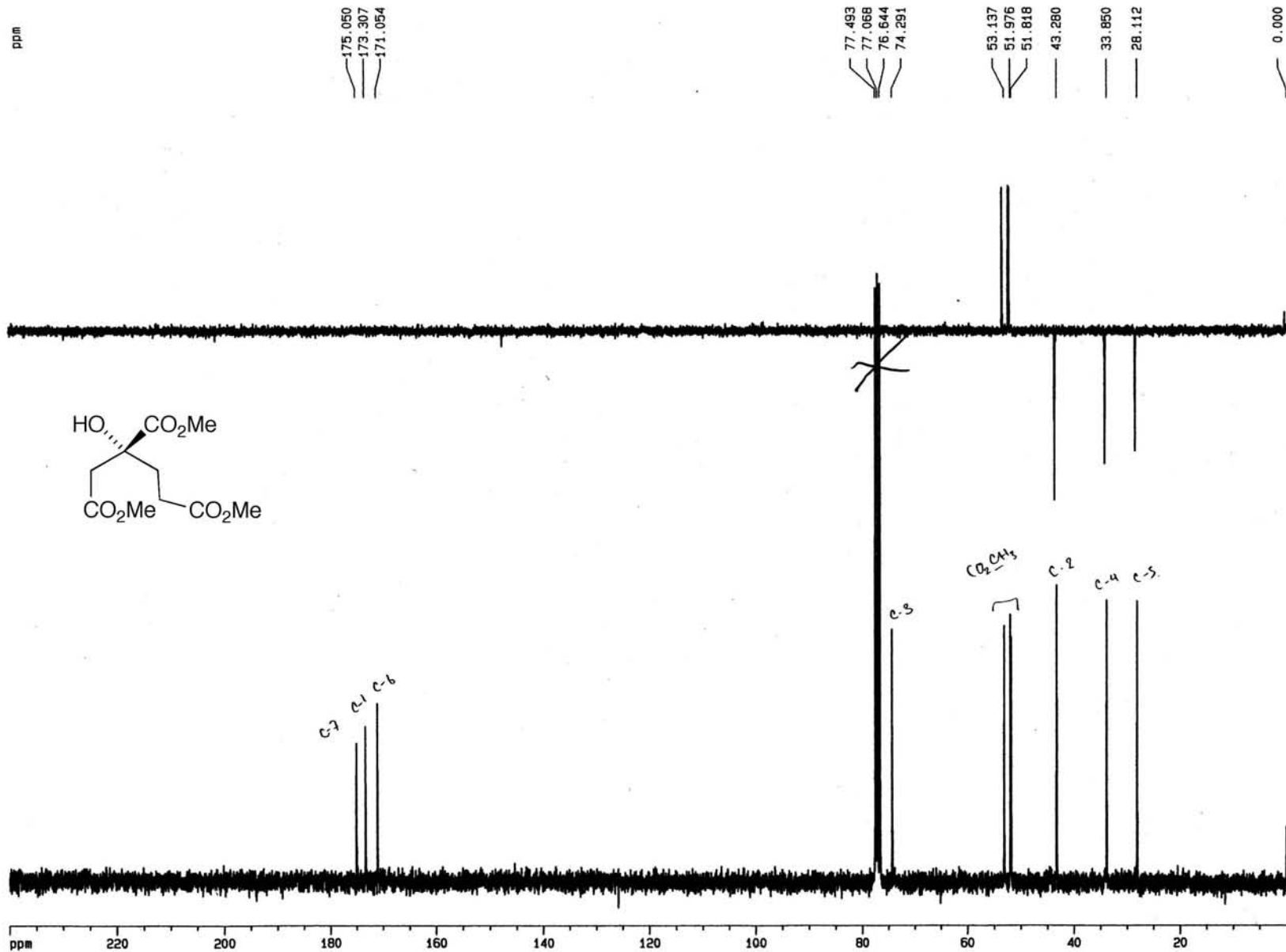
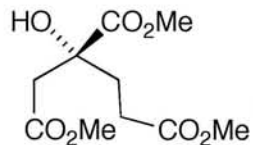
Integrat

3.356

96.641

ppm 10 9 8 7 6 5 4 3 2 1 0

ppm



175.050
173.307
171.054

77.493
77.068
76.644
74.291

53.137
51.976
51.818

43.280

33.850

28.112

0.000

Current Data Parameters

NAME jd08C13
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters

Date_ 981016
Time 4.39
INSTRUM dpx300
PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 65536
SOLVENT COC13
NS 256
DS 2
SMH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 3549.1
DM 21.000 usec
DE 5.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 18.00 dB
D1 3.00000000 sec
CPOPRG2 waltz16
PCPD2 100.00 usec
SF02 300.1312005 MHz
NUC2 1H
PL2 -6.00 dB
PL12 16.00 dB
P1 6.00 usec
DE 5.50 usec
SF01 75.4772501 MHz
NUC1 13C
PL1 -3.00 dB
D11 0.03000000 sec

F2 - Processing parameters

SI 32768
SF 75.4677487 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 30.00 cm
F1P 240.000 ppm
F1 18112.26 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCH 8.00000 ppm/cm
HZCM 603.74194 Hz/cm

Current Data Parameters
 NAME at204meoh
 EXPNO 10
 PROCNO 1

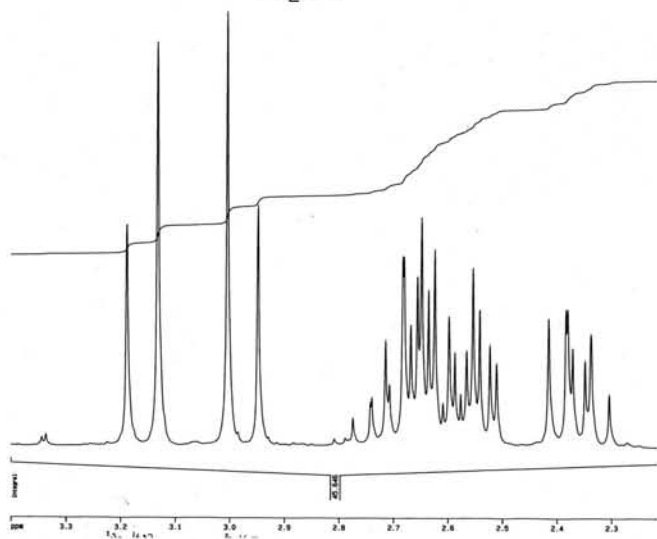
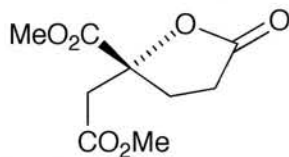
F2 - Acquisition Parameters
 Date_ 20000927
 Time 17.58
 INSTRUM spect
 PROBHD dual

PULPROG zg30
 TD 65536
 SOLVENT MeOH
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 287.4
 DW 81.000 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 7.00 usec
 PL1 -6.00 dB
 SFO1 300.1318534 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300290 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05202 Hz/cm



Integral

ppm

10 9 8 7 6 5 4 3 2 1

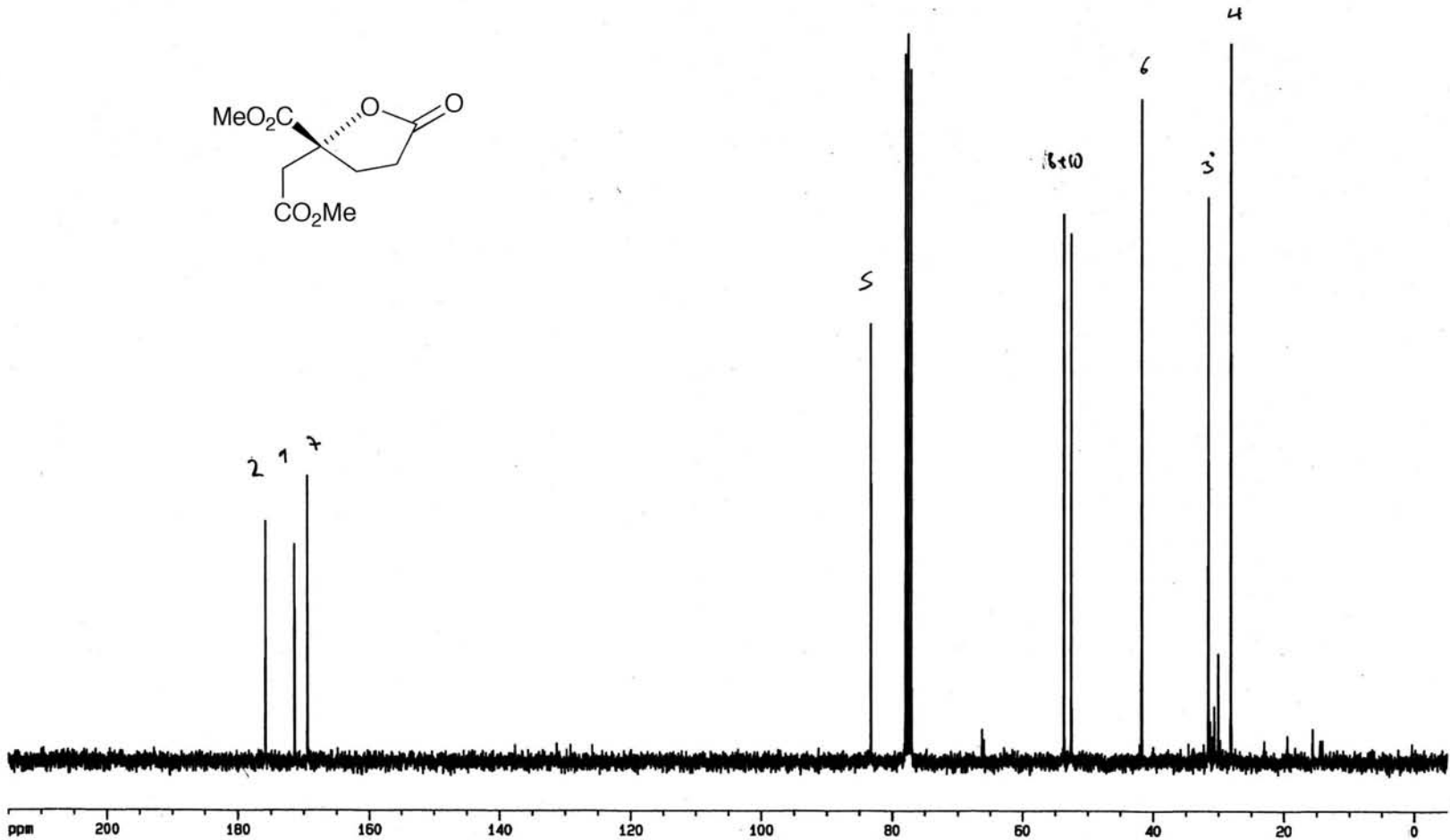
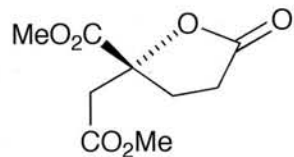
PPM

175.809
171.384
169.438

83.225
77.910
77.685
77.465
77.061
66.208
65.929

53.635
52.528

41.729
31.553
31.306
30.909
30.660
30.048
29.717
28.121
23.048
19.538
15.635
14.491
14.096



Current Data Parameters
NAME at204-2532
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20000811
Time 8.52
INSTRUM spect
PROBHD dual

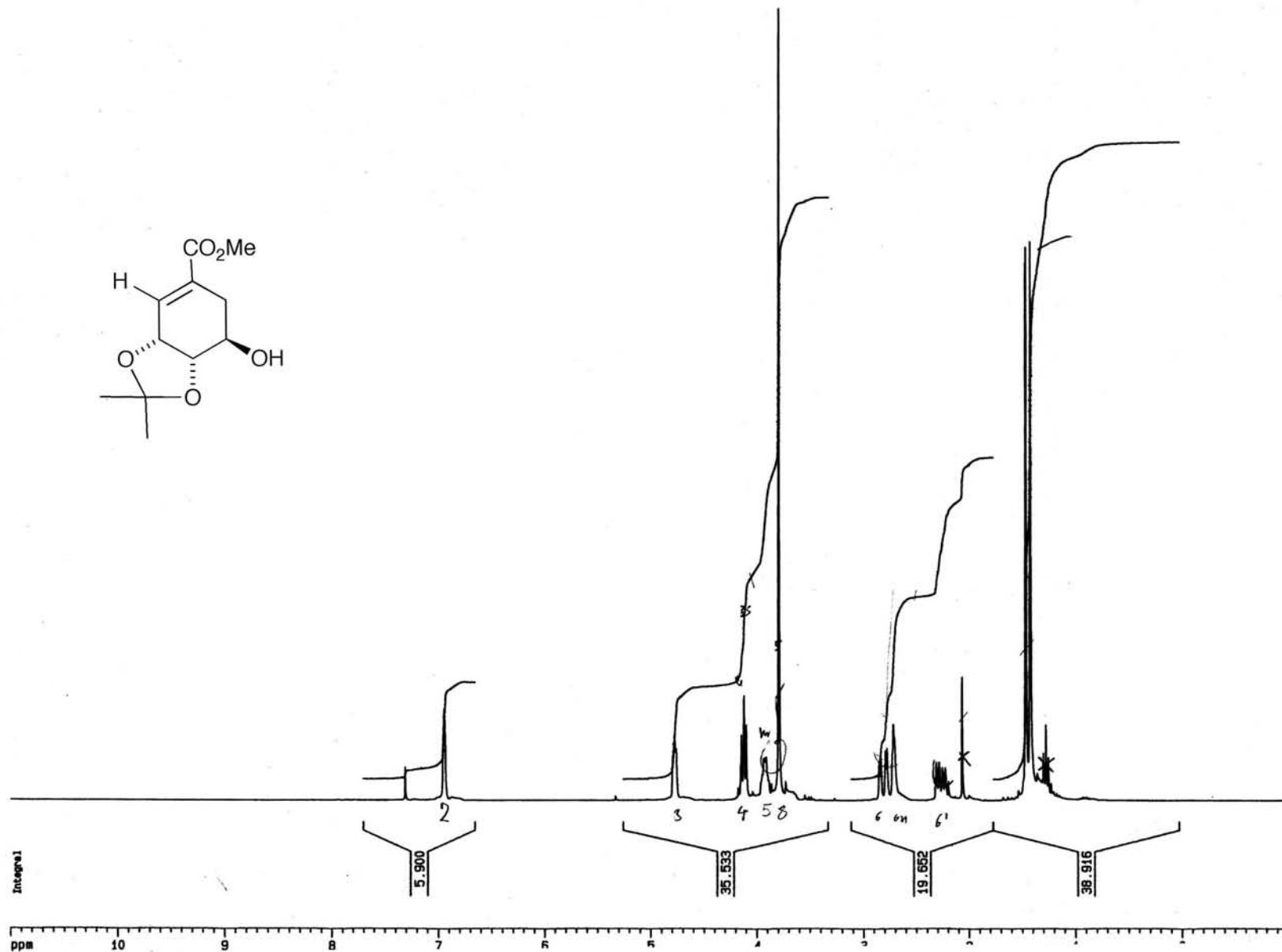
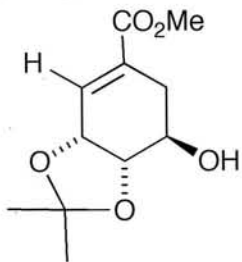
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 256
DS 4
SMH 18832.393 Hz
FIDRES 0.287360 Hz
AQ 1.7400308 sec
RG 8192
DW 26.550 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
D12 0.00002000 sec

----- CHANNEL f1 -----
NUC1 13C
P1 5.50 usec
PL1 -3.00 dB
SF01 75.4760200 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 300.1312005 MHz

F2 - Processing parameters
SI 32768
SF 75.4677190 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 30.00 cm
F1P 215.000 ppm
F1 16225.56 Hz
F2P -5.000 ppm
F2 -377.34 Hz
PPMCH 7.33333 ppm/cm



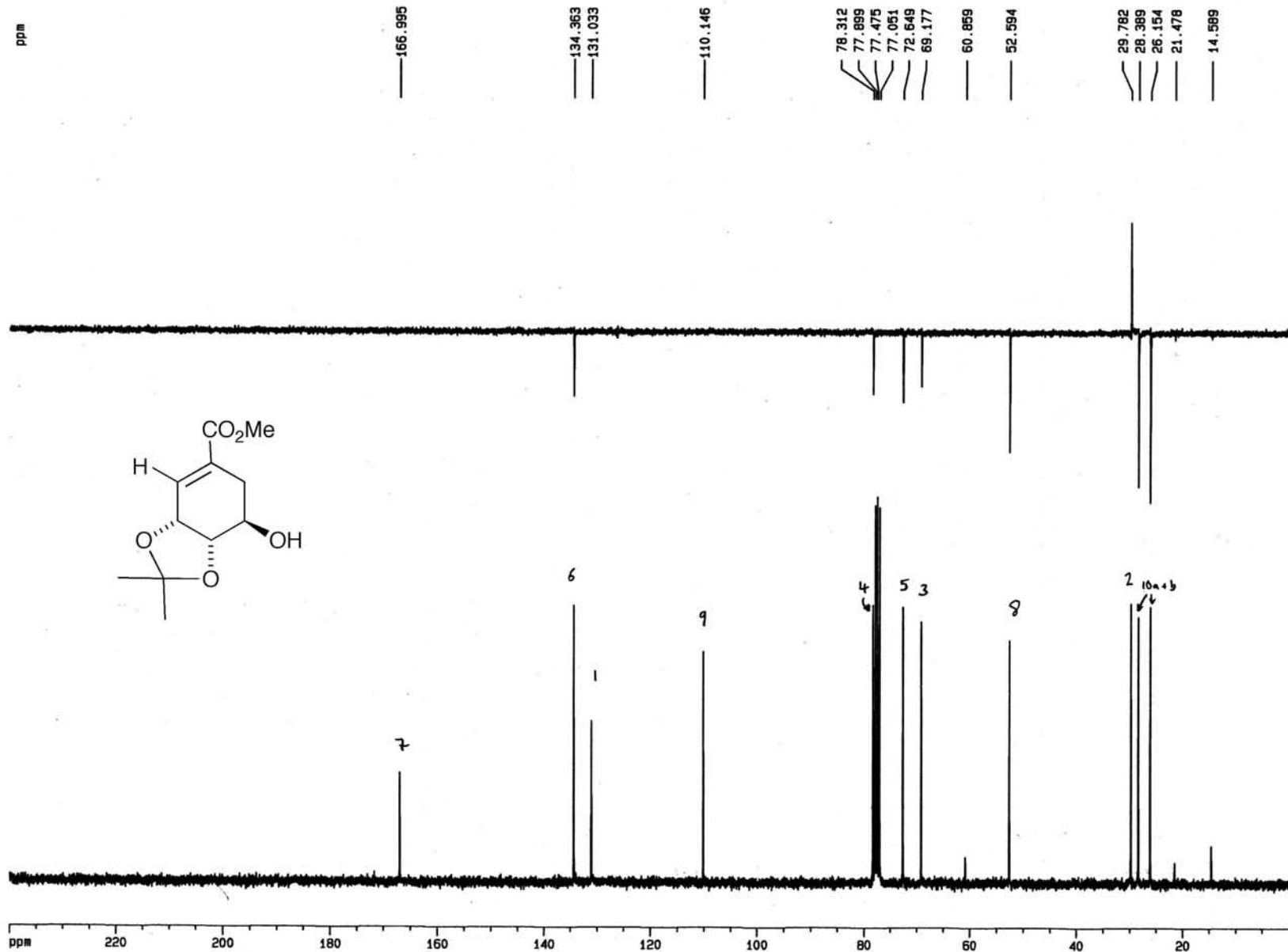
Current Data Parameters
 NAME at113-2
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 19.37
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SMH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 128
 DW 81.000 usec
 DE 5.50 usec
 TE 300.0 K
 O1 1.0000000 sec
 P1 10.50 usec
 DE 5.50 usec
 SFO1 300.1318534 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300000 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05200 Hz/cm

ppm



Current Data Parameters
 NAME at113-2
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters

Date_ 500000
 Time 19.57
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 256
 DS 2
 SMH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 1625.5
 DW 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D12 0.00002000 sec
 PL13 18.00 dB
 D1 3.00000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1312005 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 16.00 dB
 P1 6.00 usec
 DE 5.50 usec
 SF01 75.4772501 MHz
 NUC1 13C
 PL1 -3.00 dB
 D11 0.03000000 sec

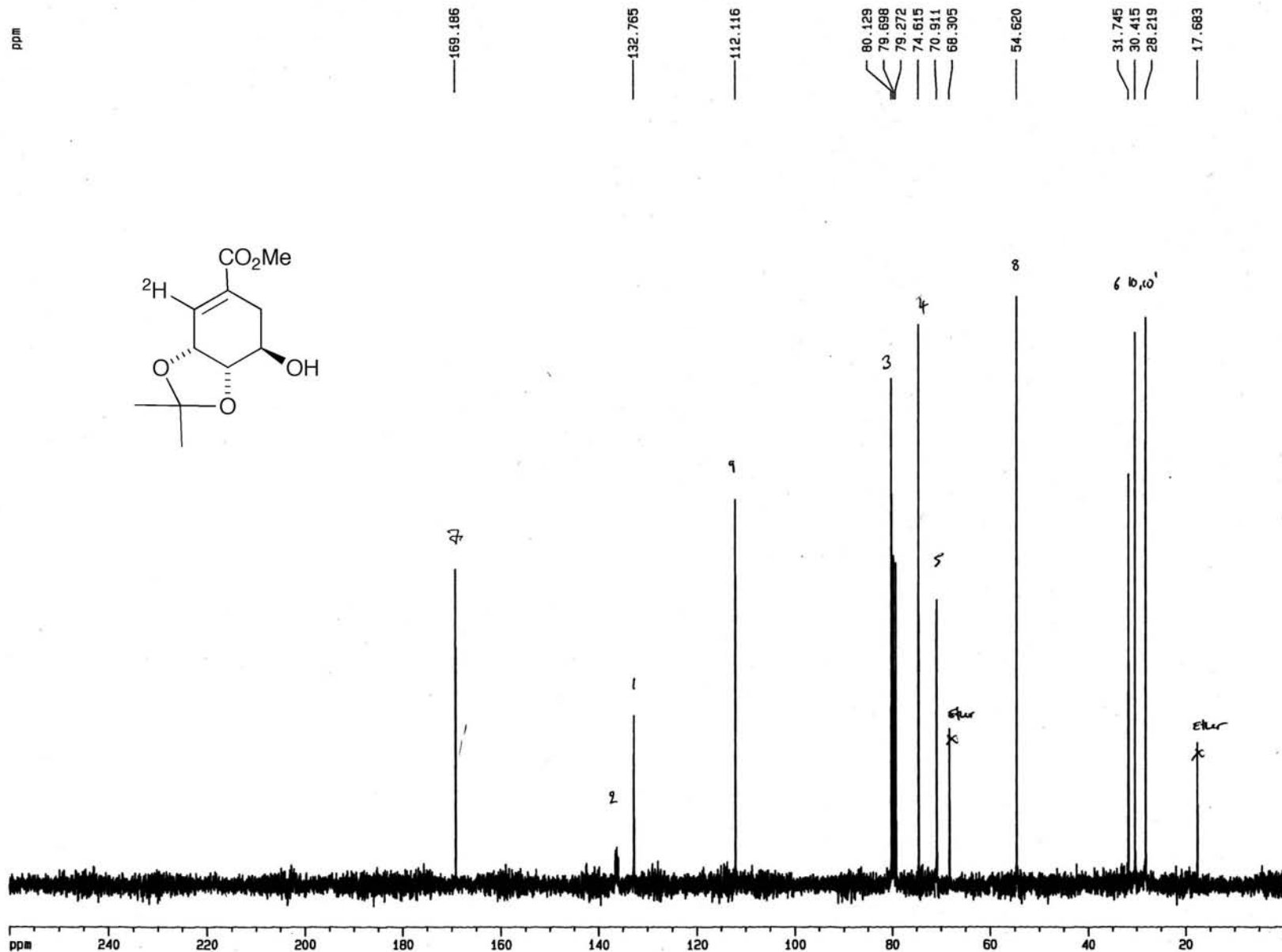
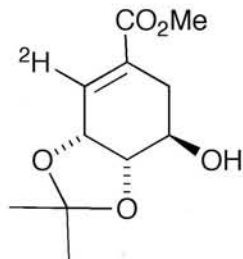
F2 - Processing parameters

SI 32768
 SF 75.4677190 MHz
 MDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters

CX 30.00 cm
 F1P 240.000 ppm
 F1 18112.25 Hz
 F2P 0.000 ppm
 F2 0.00 Hz
 PPMCM 8.00000 ppm/cm
 HZCM 603.74170 Hz/cm

ppm



Current Data Parameters
 NAME at300ac
 EXPNO 1
 PROCNO 1

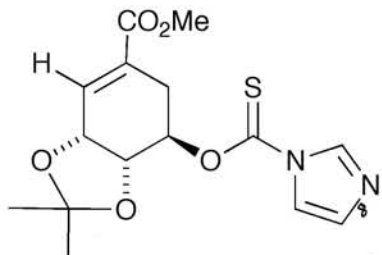
F2 - Acquisition Parameters
 Date_ 20010524
 Time 7.40
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 69
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 1149.4
 DW 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D1 3.0000000 sec
 D11 0.0300000 sec
 D12 0.0000200 sec

----- CHANNEL f1 -----
 NUC1 13C
 P1 6.00 usec
 PL1 -3.00 dB
 SF01 75.4772501 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -6.00 dB
 PL12 16.00 dB
 PL13 18.00 dB
 SF02 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4675571 MHz
 MDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 260.000 ppm
 F1 19621.56 Hz
 F2P 0.000 ppm
 F2 0.00 Hz
 PPMCM 8.66667 ppm/cm
 H7M 64.00000 Hz/cm



2620.85
2600.88
2532.02
2509.22
2492.19
2471.94
2469.93
2298.62
2281.17
2280.00
2259.08
2210.58
2204.68
2120.50
2108.25
2106.37
2104.72
2086.13
1770.45
1765.91
1763.47
1758.89
1756.67
1751.79
1995.23
1461.58
1456.70
1453.01
1353.61
1346.82
1340.57
1154.94
1139.34
1135.00
1114.95
928.14
924.55
910.46
906.88
779.04
778.05
771.91
770.62
761.43
760.38
754.28
753.17
453.73
437.47
426.48
406.39
391.89
384.56
377.46
368.08
361.04
354.00
351.96
268.56
260.84
254.18
252.53
247.85
245.69
191.75
0.00
-4.20

NAME at214
EXPNO 10
PROCNO 1

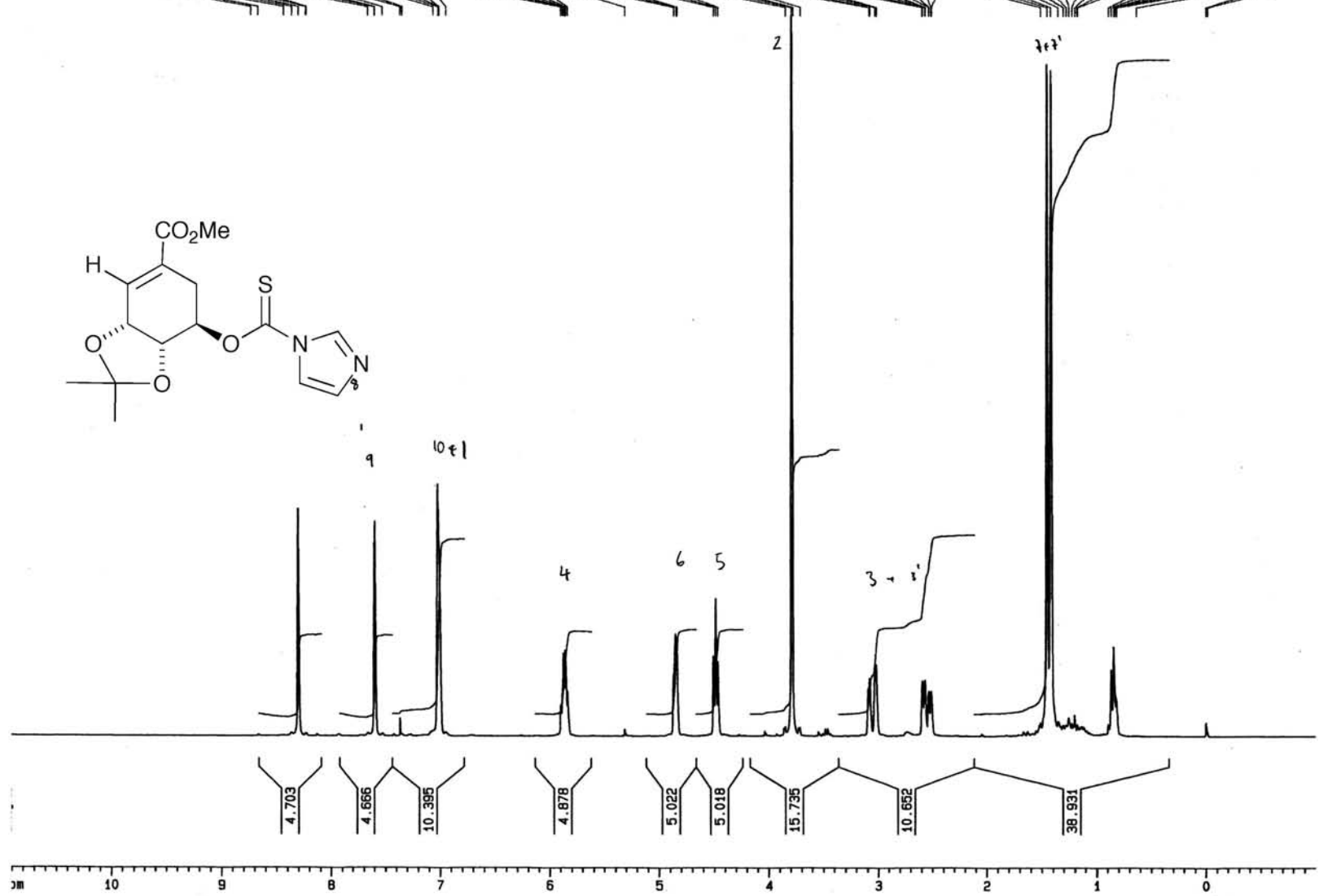
F2 - Acquisition Parameters
Date_ 20000904
Time 7.37
INSTRUM spect
PROBHD dual

PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 2
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 50.8
DM 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

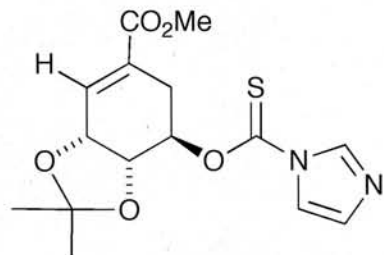
----- CHANNEL f1 -----
NUC1 1H
P1 7.00 usec
PL1 -6.00 dB
SF01 300.1318534 MHz

F2 - Processing parameters
SI 32768
SF 300.1299737 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 30.00 cm
F1P 11.000 ppm
F1 3301.43 Hz
F2P -1.000 ppm
F2 -300.13 Hz
PPMCM 0.40000 ppm/cm
HZCM 120.05199 Hz/cm



ppm



183.499

166.181

137.133

134.474

131.257

129.685

118.295

110.831

79.595

78.040

77.614

77.189

73.907

72.297

66.124

52.646

41.609

36.325

33.984

29.340

28.105

27.941

26.277

26.291

22.943

20.736

19.795

19.082

15.611

14.656

11.765

Current Data Parameters
 NAME at214c
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20000904
 Time 14.22
 INSTRUM spect
 PROBHD dual

PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 256
 DS 4
 SMH 18832.393 Hz
 FIDRES 0.287360 Hz
 AQ 1.7400308 sec
 RG 4597.6
 DW 26.550 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 D12 0.00002000 sec

----- CHANNEL f1 -----
 NUC1 13C
 P1 5.50 usec
 PL1 -3.00 dB
 SF01 75.4760200 MHz

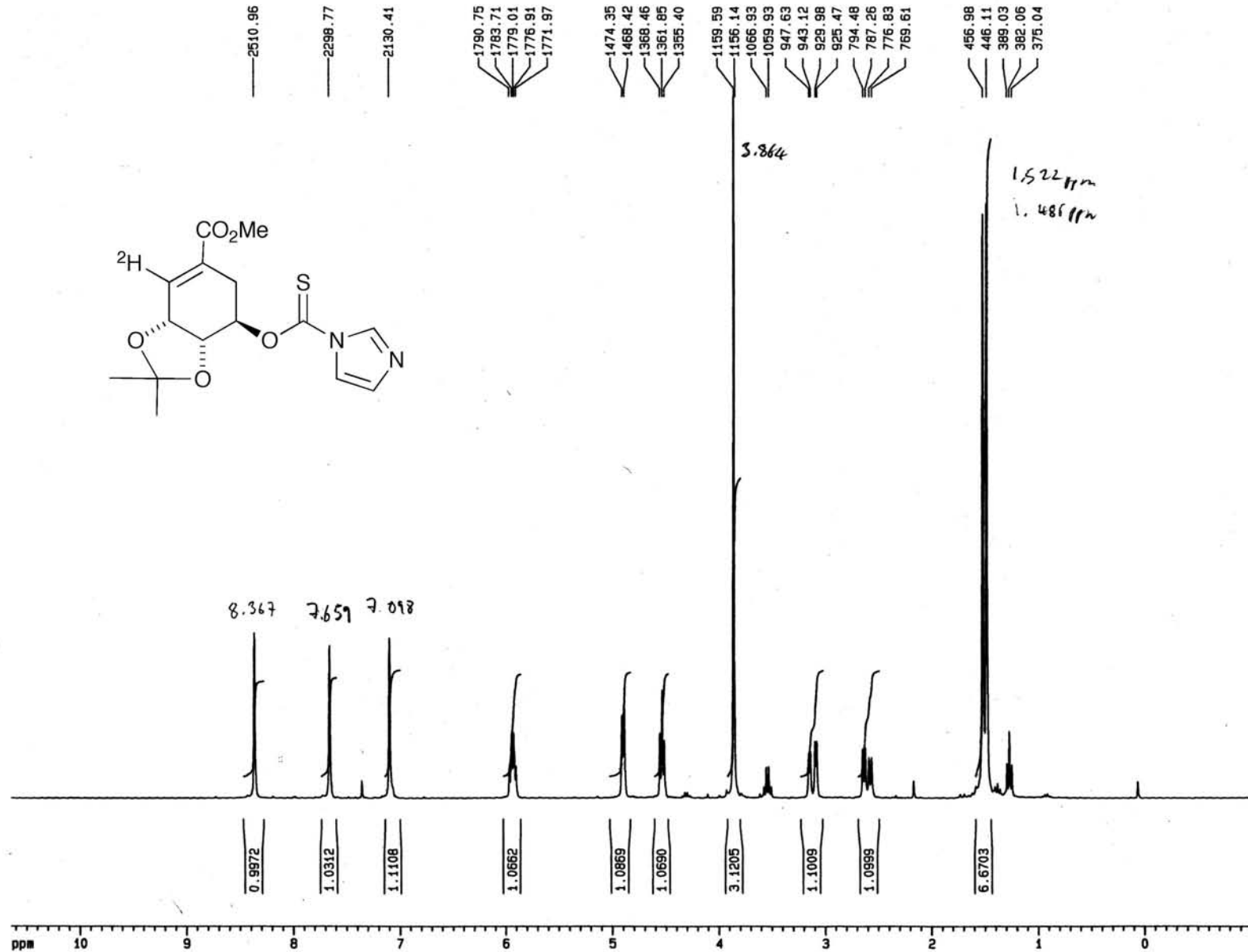
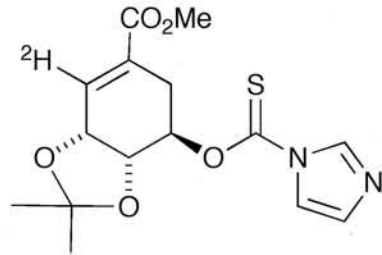
----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -6.00 dB
 PL12 16.00 dB
 PL13 18.00 dB
 SF02 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677190 MHz
 MDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 215.000 ppm
 F1 16225.56 Hz
 F2P -5.000 ppm
 F2 -377.34 Hz
 PPMCM 7.33333 ppm/cm

ppm 200 180 160 140 120 100 80 60 40 20 0

Hz



Current Data Parameters
 NAME at306
 EXPNO 10
 PROCNO 1

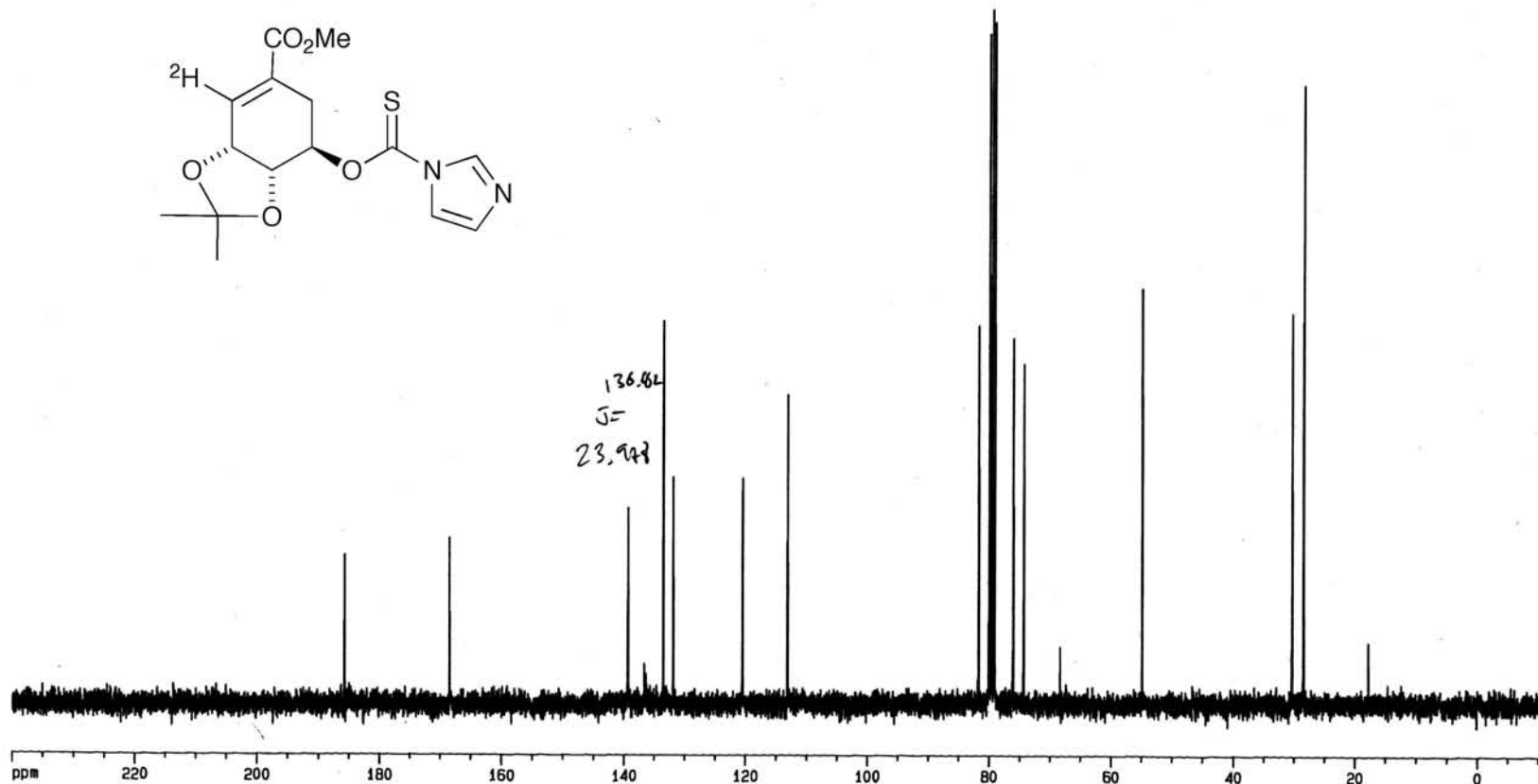
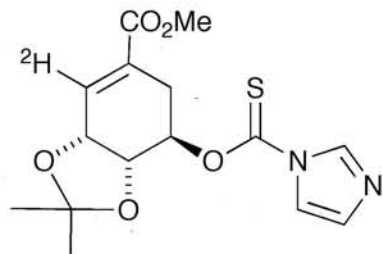
F2 - Acquisition Parameters
 Date_ 20010601
 Time 7.34
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zg30
 TD 32768
 SOLVENT CDC13
 NS 32
 DS 2
 SWH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 101.6
 DW 103.800 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 10.50 usec
 PL1 -6.00 dB
 SF01 300.1307620 MHz

F2 - Processing parameters
 SI 16384
 SF 300.1299767 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05199 Hz/cm

ppm



Current Data Parameters
NAME at306c
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010601
Time 7.39
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 104
DS 2
SWH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 1149.4
DW 21.000 usec
DE 5.50 usec
TE 300.0 K
D1 3.0000000 sec
D11 0.0300000 sec
D12 0.0000200 sec

----- CHANNEL f1 -----
NUC1 13C
P1 6.00 usec
PL1 -3.00 dB
SF01 75.4772501 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 300.1312005 MHz

F2 - Processing parameters
SI 32768
SF 75.4675571 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 30.00 cm
F1P 240.000 ppm
F1 18112.21 Hz
F2P -10.000 ppm
F2 -754.68 Hz
PPMCM 8.33333 ppm/cm
HZCM 628.89636 Hz/cm

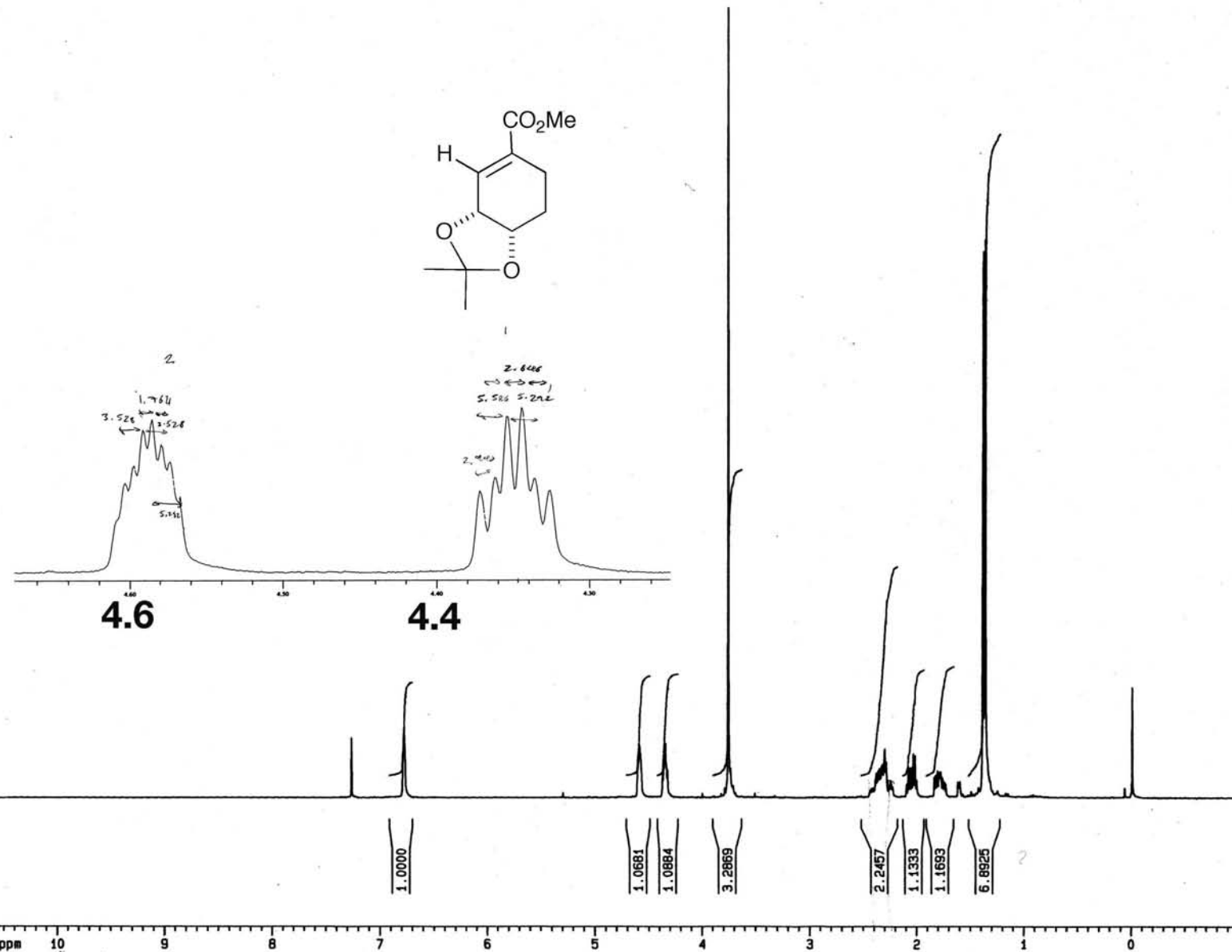
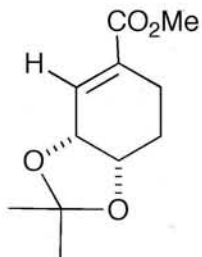
Current Data Parameters
 NAME at186-2 168
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010313
 Time 17.10
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zg30
 TD 32768
 SOLVENT CDC13
 NS 16
 DS 2
 SWH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 287.4
 DW 103.800 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 10.50 usec
 PL1 -6.00 dB
 SFO1 300.1307620 MHz

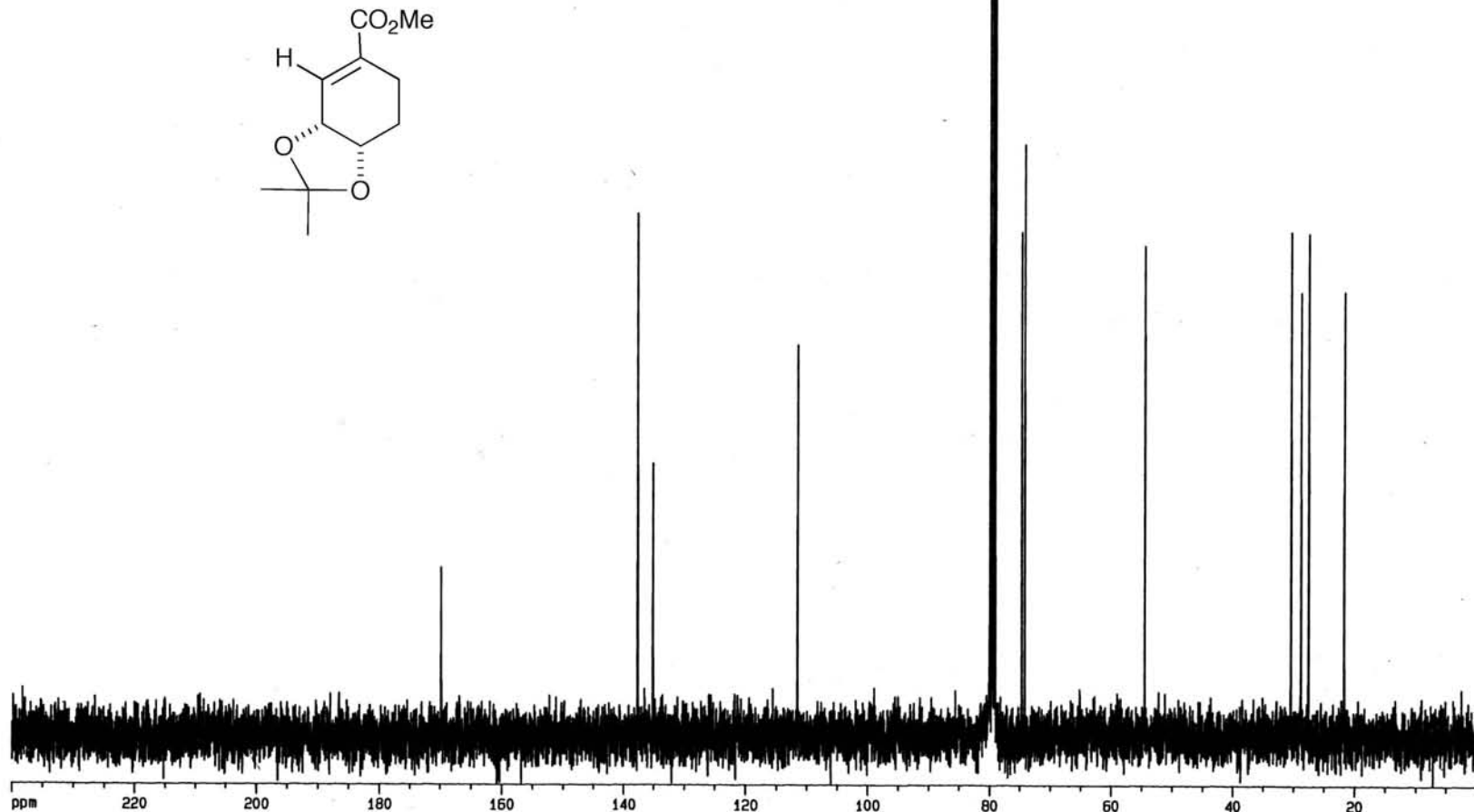
F2 - Processing parameters
 SI 16384
 SF 300.1300059 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05200 Hz/cm



Integral

ppm



Current Data Parameters

NAME at186c
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010313
Time 16.20
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 219
DS 2
SMH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 2048
DM 21.000 usec
DE 5.50 usec
TE 300.0 K
D1 3.0000000 sec
D11 0.0300000 sec
D12 0.0000200 sec

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

NUC1 13C
P1 6.00 usec
PL1 -3.00 dB
SF01 75.4772501 MHz

----- CHANNEL f2 -----

CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -5.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 300.1312005 MHz

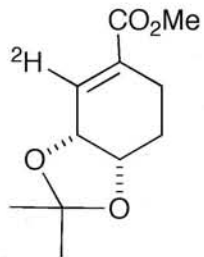
F2 - Processing parameters

SI 32768
SF 75.4675571 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 30.00 cm
F1P 240.000 ppm
F1 18112.21 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 8.00000 ppm/cm
HZCM 603.74042 Hz/cm

Hz



1403.28
1397.82
1333.17
1330.75
1327.85
1325.41
1154.77
1151.39
1145.58
1138.83
1069.54
1062.53
721.05
714.41
710.03
633.69
628.98
486.86
480.98
438.50
432.26
426.92
418.93
391.61
384.59
377.59
298.83

3.836 ppm

1.460

1.440

1.0000
1.1054
3.4462
0.7225
2.2232
1.0995
1.2610
5.5323
7.3838
0.7260

Current Data Parameters
NAME at308
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010604
Time 13.36
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zg30
TD 32768
SOLVENT CDC13
NS 30
DS 2
SMH 4816.956 Hz
FIDRES 0.147002 Hz
AQ 3.4013684 sec
RG 90.5
DM 103.800 usec
DE 5.50 usec
TE 300.0 K
D1 1.00000000 sec

----- CHANNEL f1 -----
NUC1 1H
P1 10.50 usec
PL1 -6.00 dB
SFO1 300.1307620 MHz

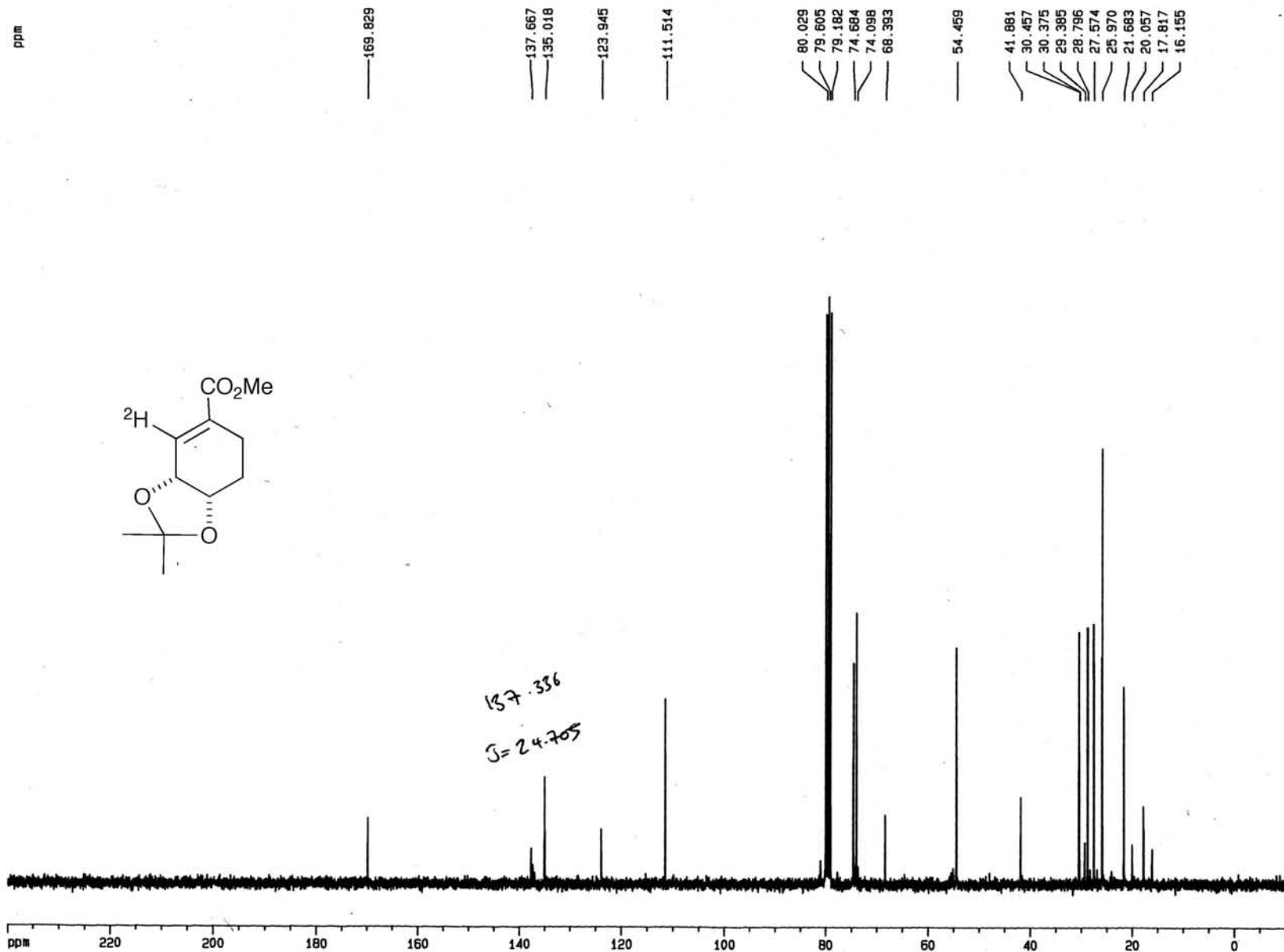
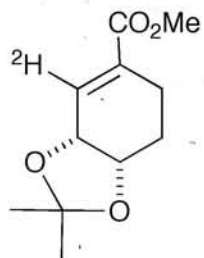
F2 - Processing parameters
SI 16384
SF 300.1299767 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 30.00 cm
F1P 11.000 ppm
F1 3301.43 Hz
F2P -1.000 ppm
F2 -300.13 Hz
PPMCM 0.40000 ppm/cm
HZCM 120.05199 Hz/cm

Integral

ppm 10 9 8 7 6 5 4 3 2 1 0

ppm



Current Data Parameters
 NAME at308c
 EXPNO 1
 PROCNO 1

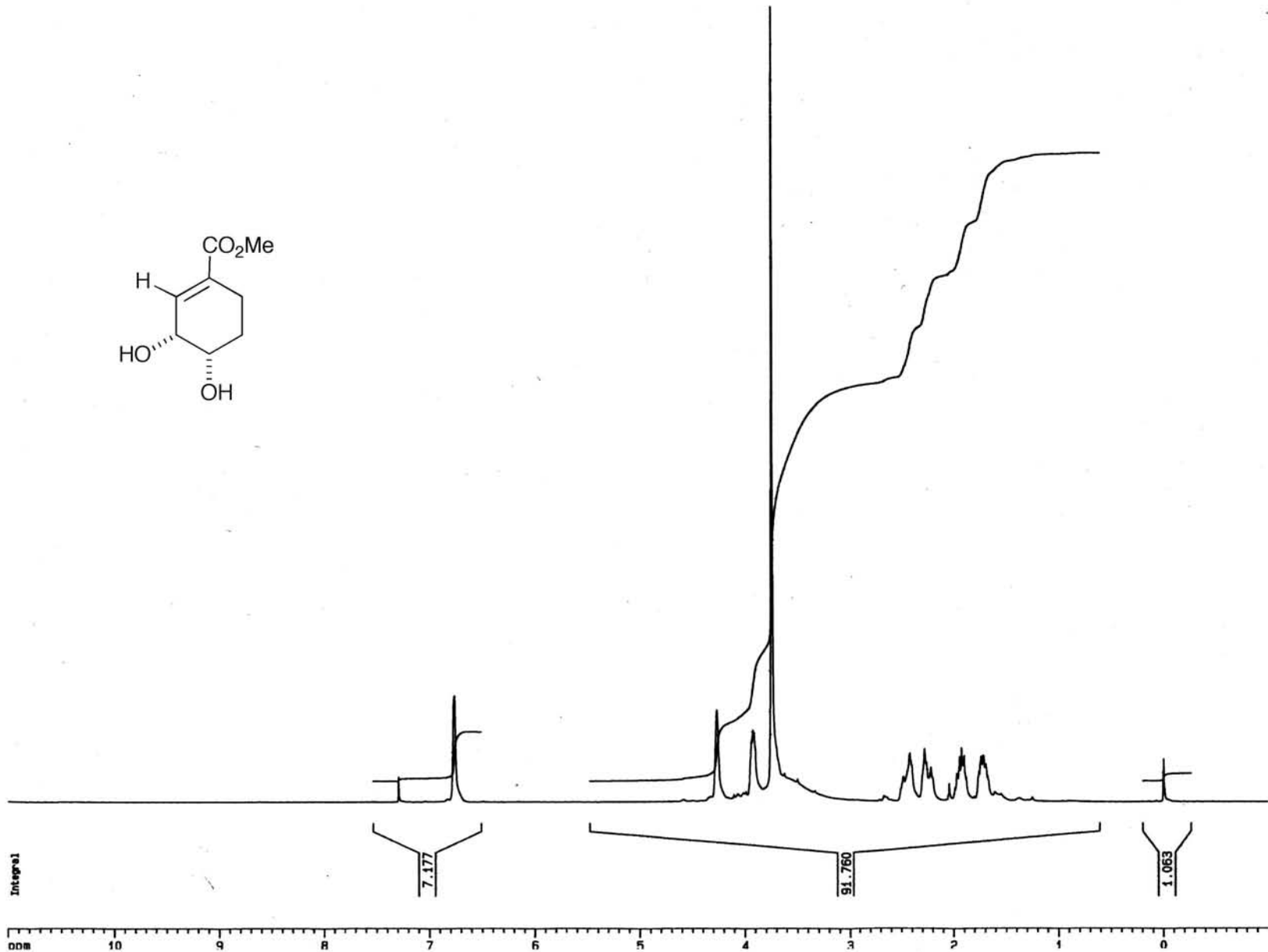
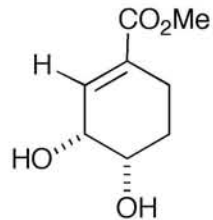
F2 - Acquisition Parameters
 Date_ 20010604
 Time 13.41
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 359
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 2895.3
 DW 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D1 3.00000000 sec
 D11 0.03000000 sec
 D12 0.00002000 sec

----- CHANNEL f1 -----
 NUC1 13C
 P1 6.00 usec
 PL1 -3.00 dB
 SFO1 75.4772501 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -6.00 dB
 PL12 16.00 dB
 PL13 18.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4675571 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 240.000 ppm
 F1 18112.21 Hz
 F2P -10.000 ppm
 F2 -754.68 Hz
 PPMCM 8.33333 ppm/cm
 HZCM 828.89636 Hz/cm

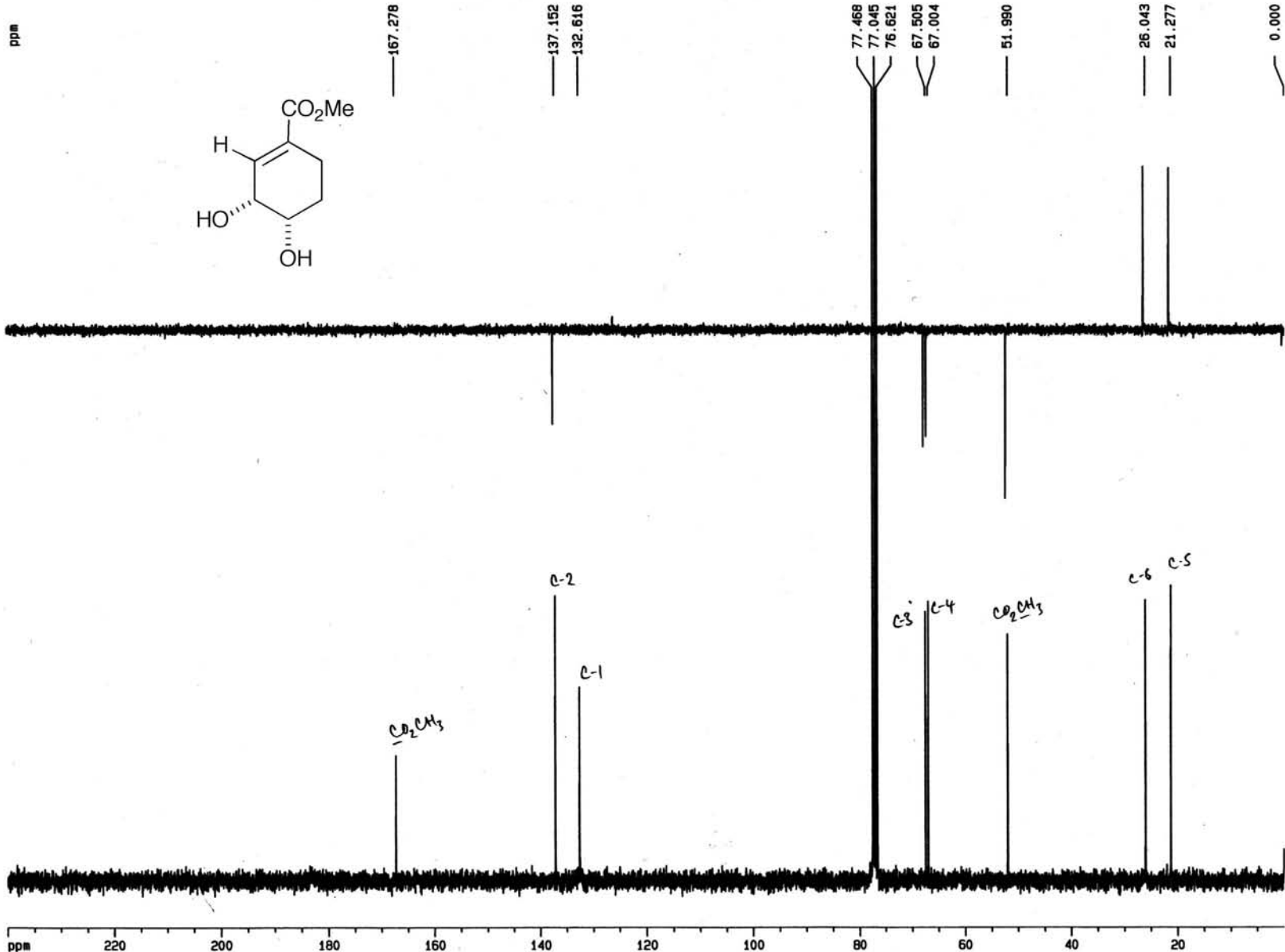


Current Data Parameters
 NAME at8frx2
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990803
 Time 15.09
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 90.5
 DW 81.000 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 10.50 usec
 DE 5.50 usec
 SFO1 300.1318534 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300049 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05200 Hz/cm



Current Data Parameters

NAME j009
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters

Date_ 980929
 Time 17.22
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 256
 DS 2
 SMH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 1625.5
 DW 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D12 0.00002000 sec
 PL13 18.00 dB
 D1 3.00000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1312005 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 16.00 dB
 P1 6.00 usec
 DE 5.50 usec
 SF01 75.4772501 MHz
 NUC1 13C
 PL1 -3.00 dB
 D11 0.03000000 sec

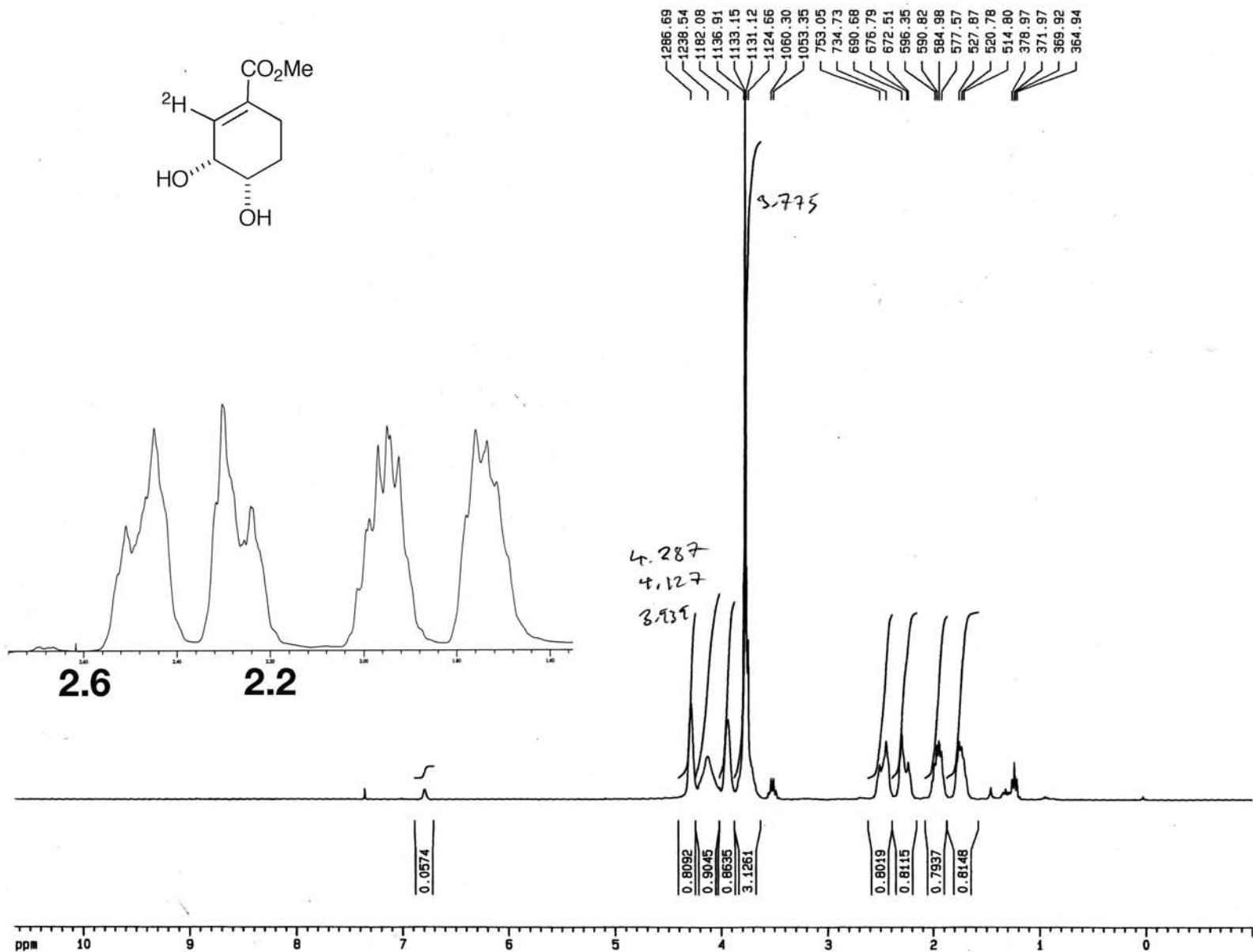
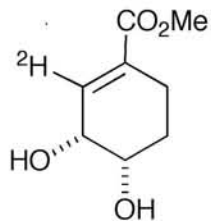
F2 - Processing parameters

SI 32768
 SF 75.4677497 MHz
 NDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters

CX 30.00 cm
 F1P 240.000 ppm
 F1 18112.26 Hz
 F2P 0.000 ppm
 F2 0.00 Hz
 PPMCM 8.00000 ppm/cm
 HZCM 603.74194 Hz/cm

Hz



Current Data Parameters
 NAME at309
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010605
 Time 12.35
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 64
 DS 2
 SMH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 40.3
 DW 103.800 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 10.50 usec
 PL1 -6.00 dB
 SFO1 300.1307620 MHz

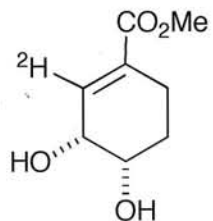
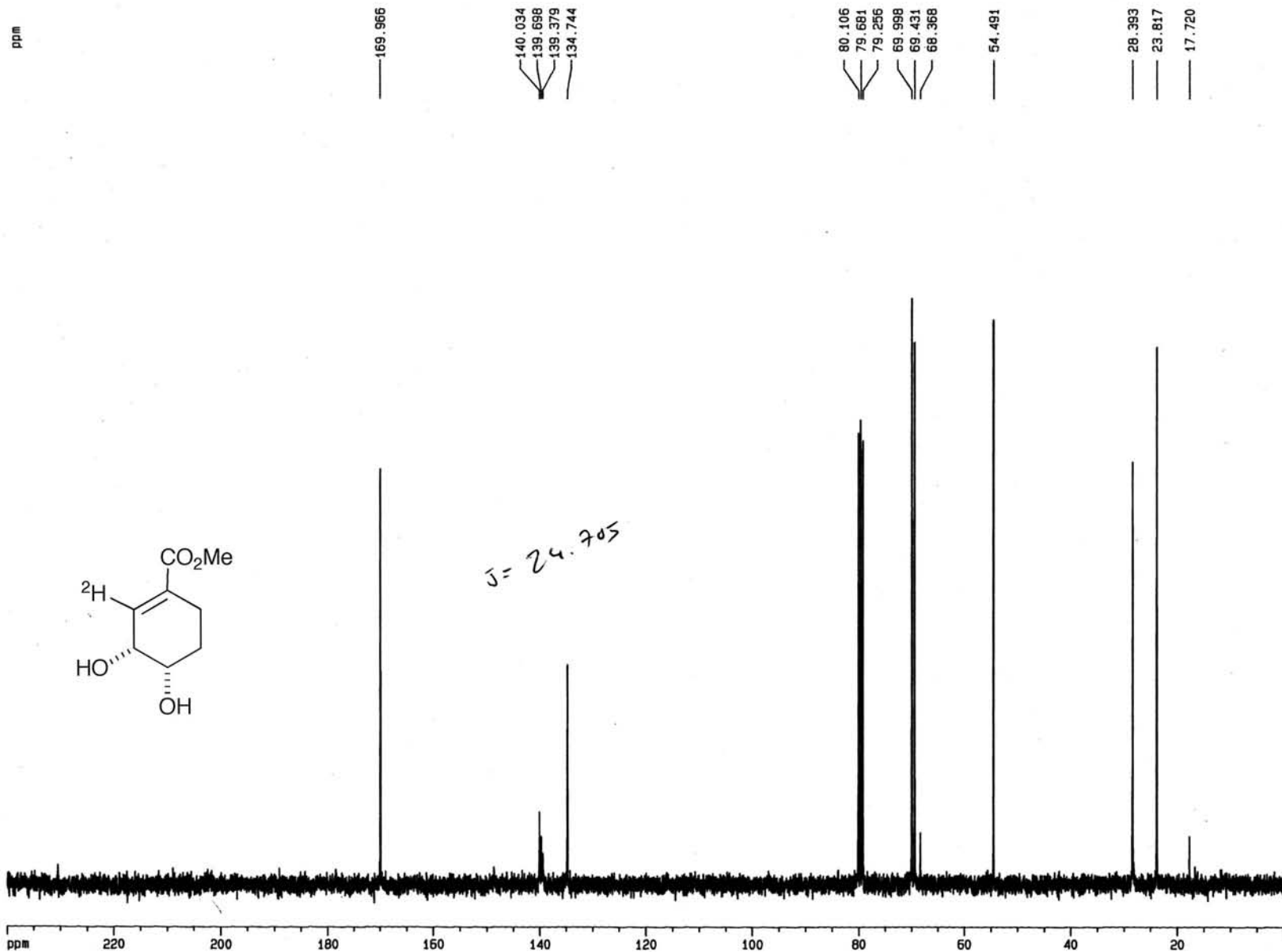
F2 - Processing parameters
 SI 16384
 SF 300.1299767 MHz
 NDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05199 Hz/cm

Integral

ppm

ppm


 $J = 24.705$


Current Data Parameters

NAME at309c
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010605
Time 12.41
INSTRUM spect
PROBHD 5mm GUAD 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 90
DS 2
SMH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 2895.3
DW 21.000 usec
DE 5.50 usec
TE 300.0 K
D1 3.0000000 sec
D11 0.0300000 sec
D12 0.0000200 sec

CHANNEL f1

NUC1 13C
P1 6.00 usec
PL1 -3.00 dB
SFO1 75.4772501 MHz

CHANNEL f2

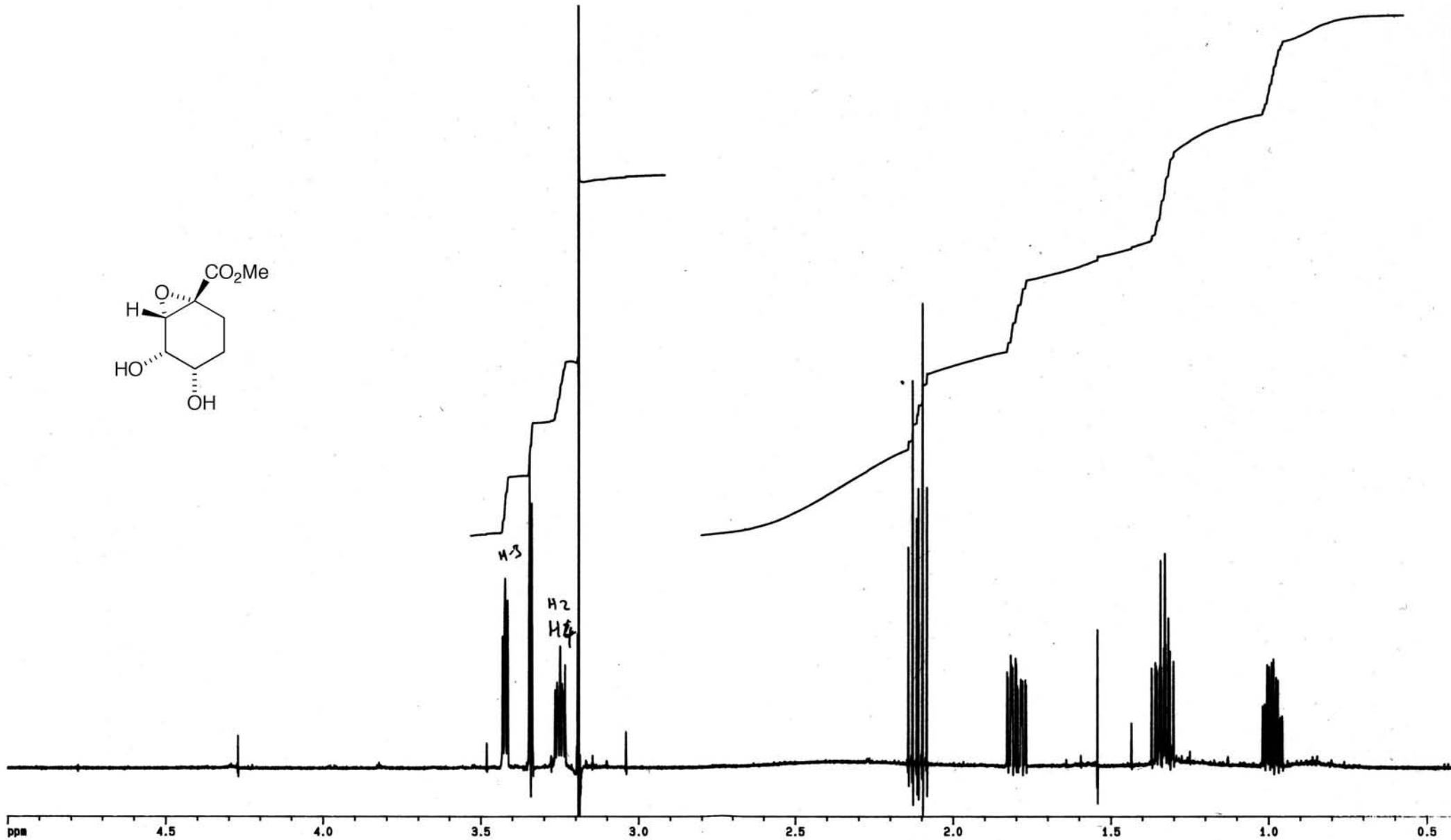
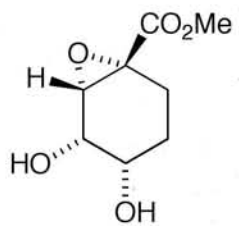
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 16.00 dB
PL13 18.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters

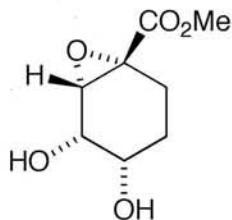
SI 32768
SF 75.4675571 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

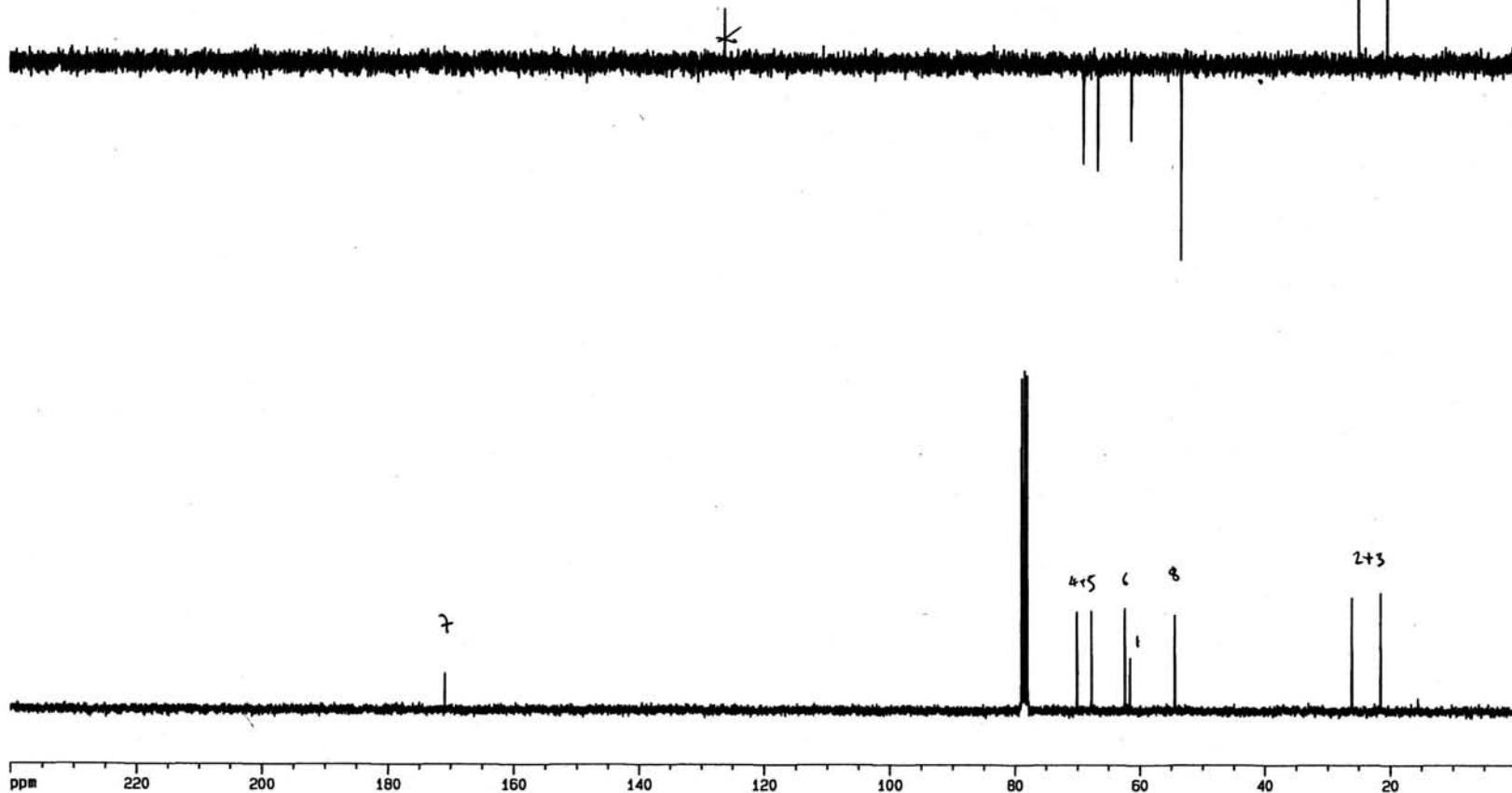
CX 30.00 cm
F1P 240.000 ppm
F1 18112.21 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCH 8.00000 ppm/cm
HZCM 603.74048 Hz/cm



ppm



170.938



Current Data Parameters
 NAME at91c
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters

Date_ 500000
 Time 6.22
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 256
 DS 2
 SMH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 574.7
 DW 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D12 0.00002000 sec
 PL13 18.00 dB
 D1 3.00000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1312005 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 16.00 dB
 P1 6.00 usec
 DE 5.50 usec
 SF01 75.4772501 MHz
 NUC1 13C
 PL1 -3.00 dB
 D11 0.03000000 sec

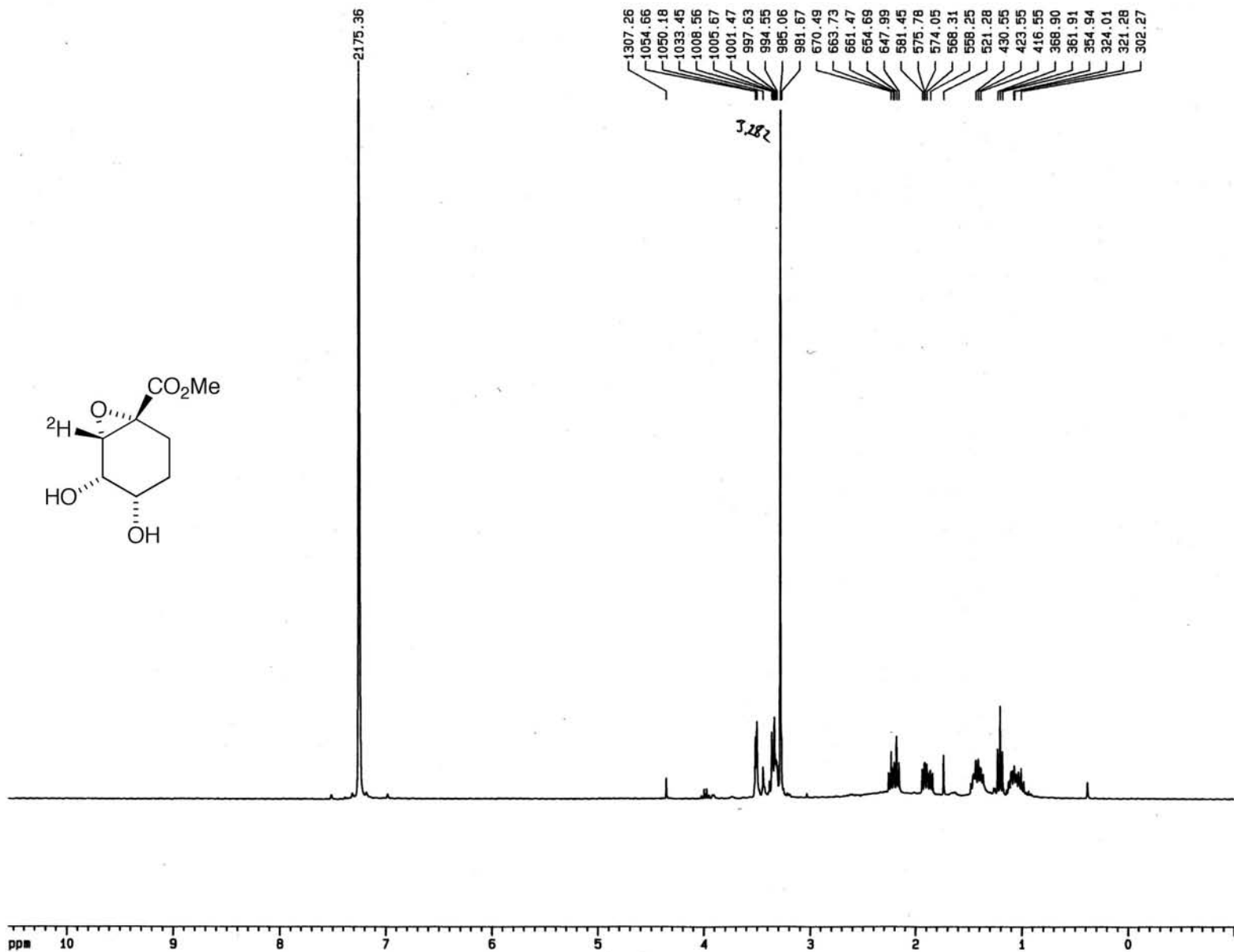
F2 - Processing parameters

SI 32768
 SF 75.4676412 MHz
 MDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

ID NMR plot parameters

CX 30.00 cm
 F1P 240.000 ppm
 F1 18112.23 Hz
 F2P 0.000 ppm
 F2 0.00 Hz
 PPMCM 8.00000 ppm/cm
 HZCM 603.74109 Hz/cm

Hz



Current Data Parameters
 NAME at311
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010611
 Time 5.31
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zg30
 TD 32768
 SOLVENT C6D6
 NS 29
 DS 2
 SMH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 362
 DW 103.800 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec

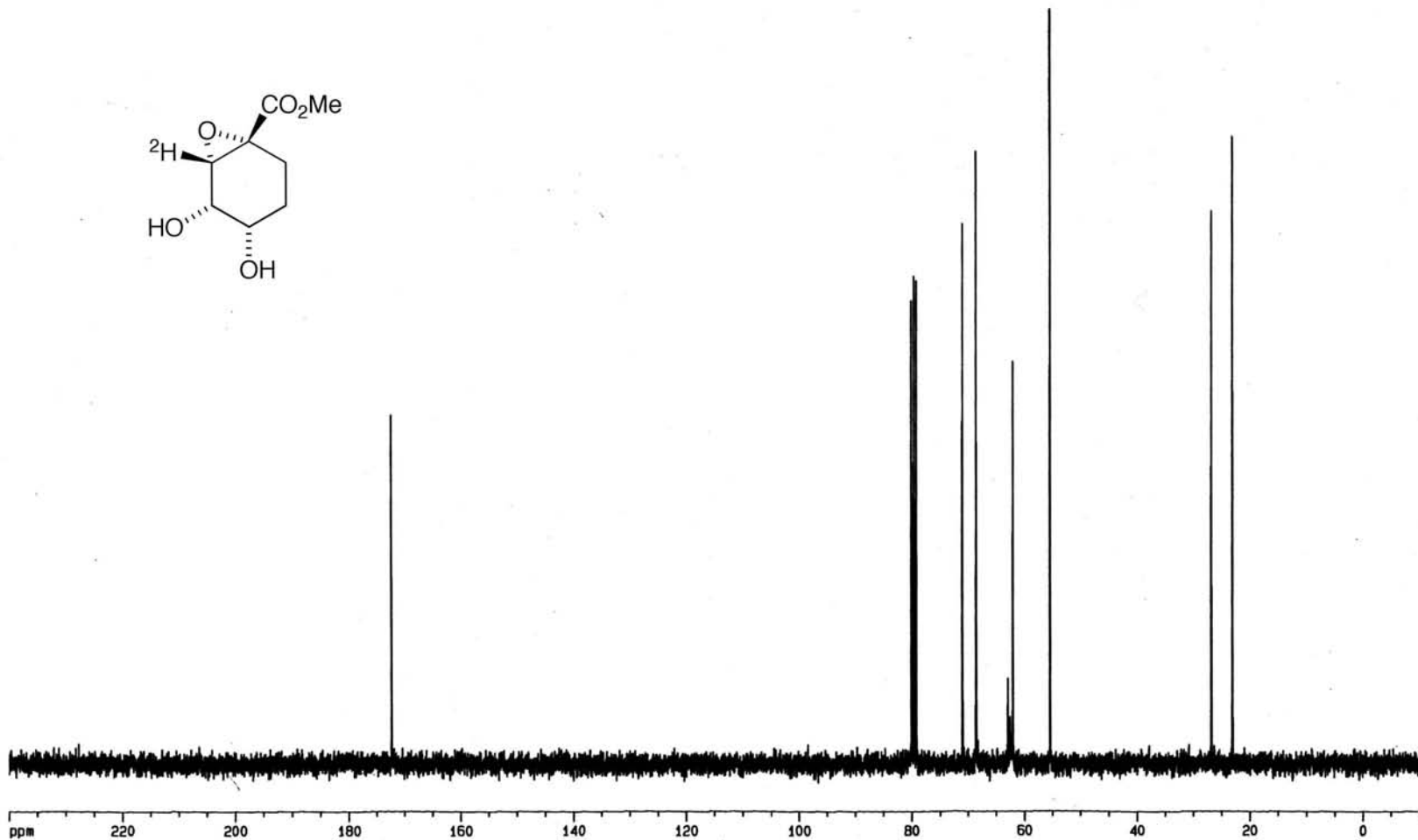
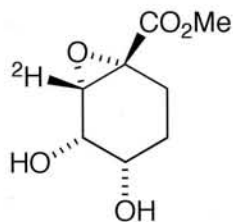
----- CHANNEL f1 -----
 NUC1 1H
 P1 10.50 usec
 PL1 -6.00 dB
 SFO1 300.1307620 MHz

F2 - Processing parameters
 SI 16384
 SF 300.1300059 MHz
 NDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05200 Hz/cm

ppm

172.316



80.127
79.702
79.278
71.051
68.748
68.639
63.009
62.170
62.089
55.430

26.827
23.097

Current Data Parameters
NAME at311c2
EXPNO 1
PROCNO 1

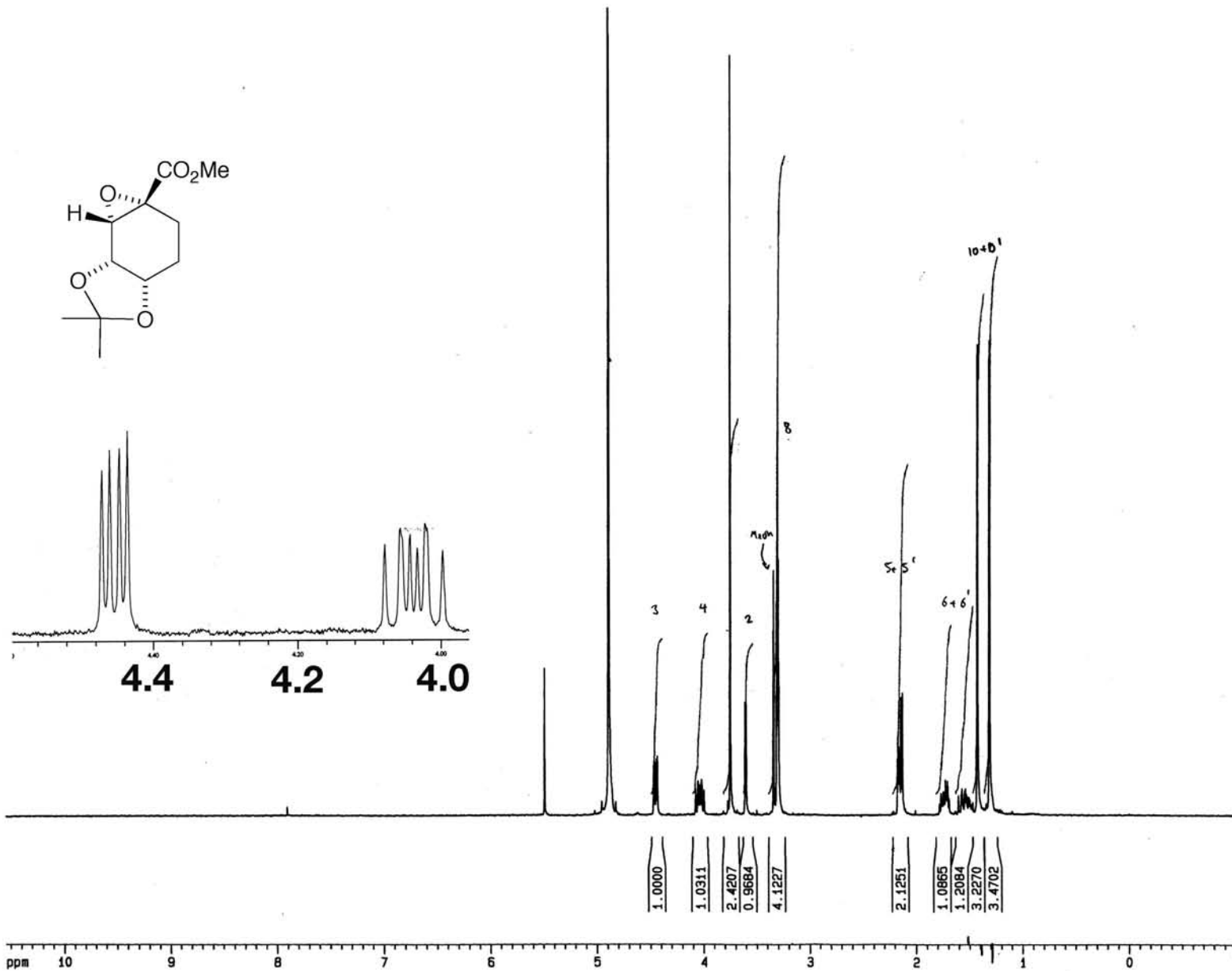
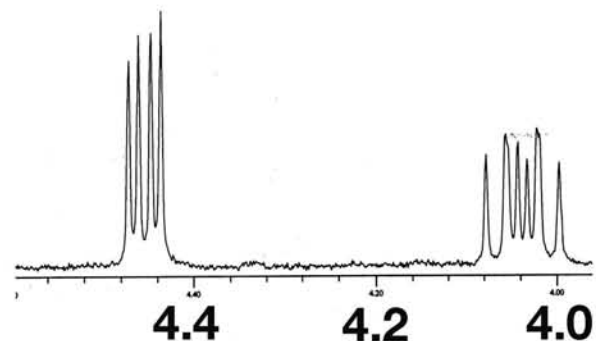
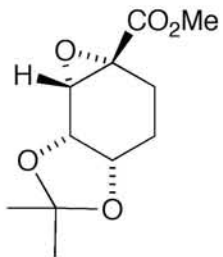
F2 - Acquisition Parameters
Date_ 20010611
Time 7.34
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 50
DS 2
SWH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 8192
DW 21.000 usec
DE 5.50 usec
TE 300.0 K
D1 3.0000000 sec
D11 0.0300000 sec
D12 0.0000200 sec

----- CHANNEL f1 -----
NUC1 13C
P1 6.00 usec
PL1 -3.00 dB
SF01 75.4772501 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 300.1312005 MHz

F2 - Processing parameters
SI 32768
SF 75.4675571 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 30.00 cm
F1P 240.000 ppm
F1 18112.21 Hz
F2P -10.000 ppm
F2 -754.68 Hz
PPMCH 8.33333 ppm/cm
HZCM 628.89636 Hz/cm



Current Data Parameters
 NAME at 25 meoh
 EXPNO 1
 PROCNO 1

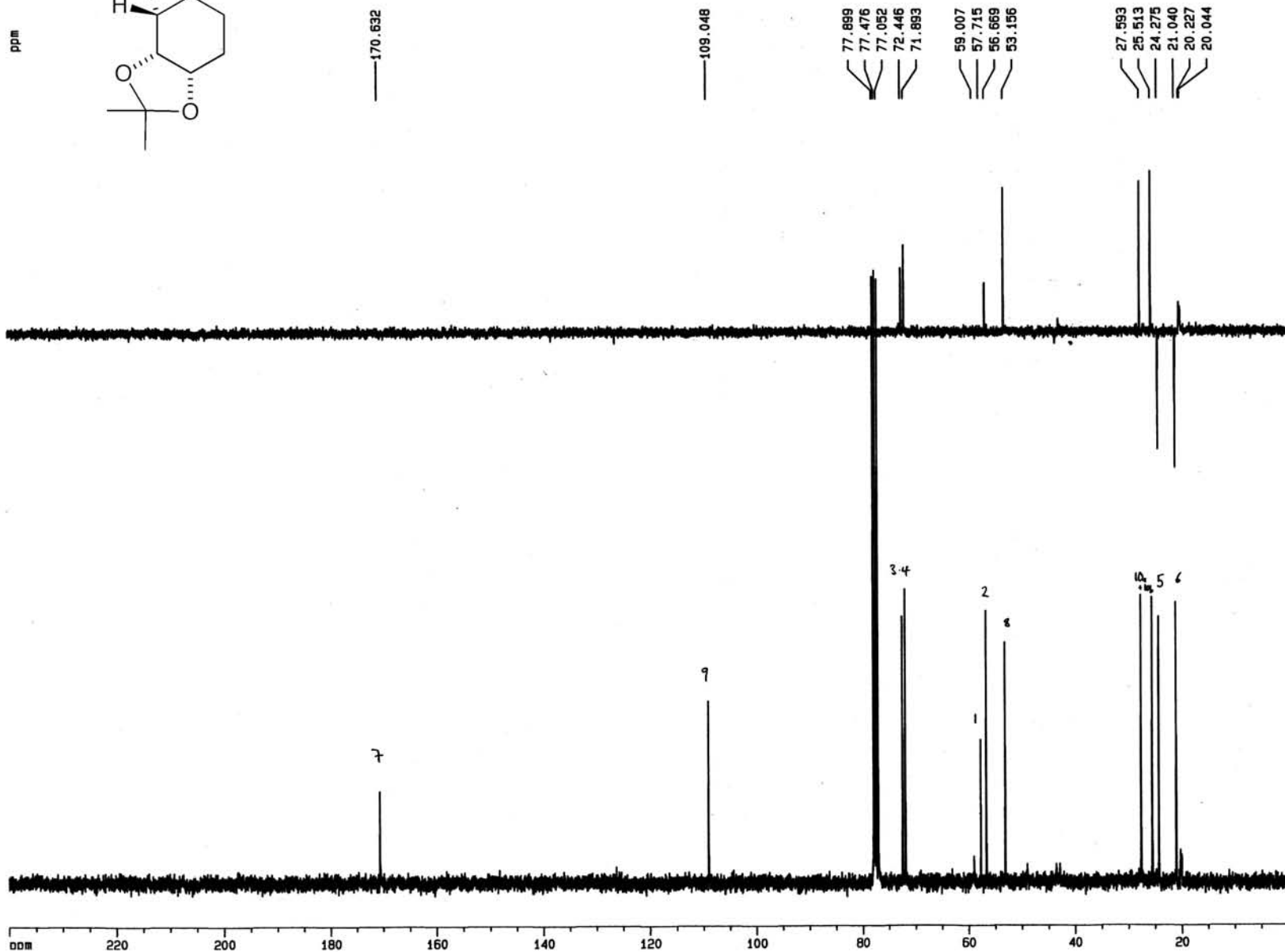
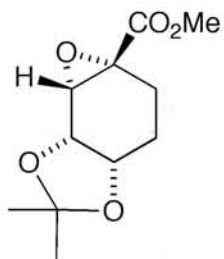
F2 - Acquisition Parameters
 Date_ 20010319
 Time 10.08
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zg30
 TD 32768
 SOLVENT MeOH
 NS 16
 DS 2
 SWH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 456.1
 DW 103.800 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 10.50 usec
 PL1 -6.00 dB
 SF01 300.1307620 MHz

F2 - Processing parameters
 SI 16384
 SF 300.1300059 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05200 Hz/cm

ppm

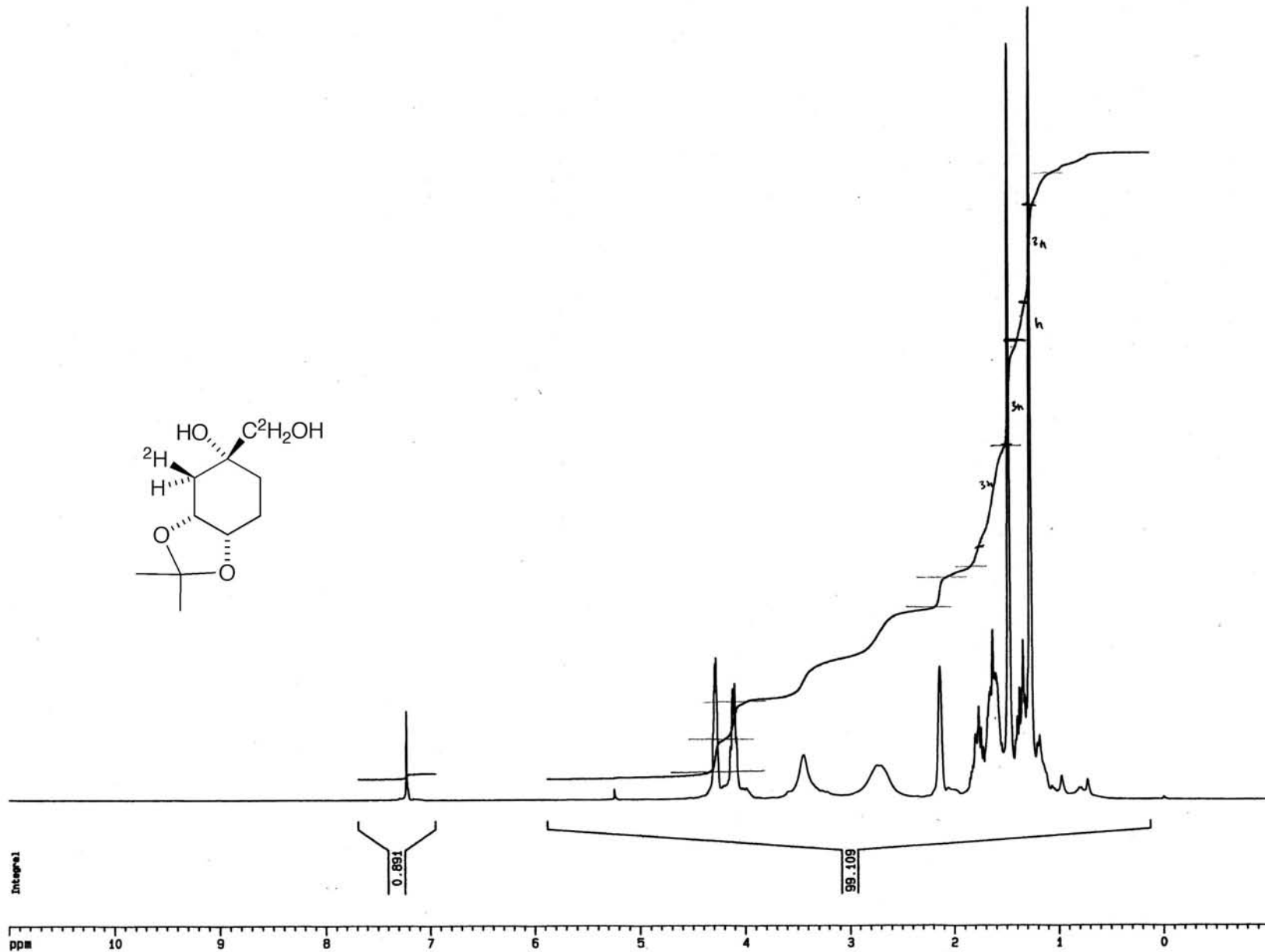
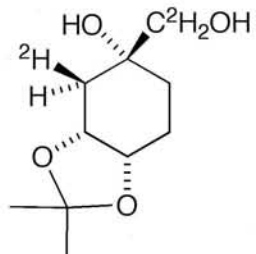


Current Data Parameters
 NAME at147
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 5.10
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 256
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 3649.1
 DW 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D12 0.00002000 sec
 PL13 18.00 dB
 D1 3.00000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1312005 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 16.00 dB
 P1 6.00 usec
 DE 5.50 usec
 SF01 75.4772501 MHz
 NUC1 13C
 PL1 -3.00 dB
 D11 0.03000000 sec

F2 - Processing parameters
 SI 32768
 SF 75.4677190 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 240.000 ppm
 F1 18112.25 Hz
 F2P 0.000 ppm
 F2 0.00 Hz
 PPMCM 8.00000 ppm/cm
 HZCM 603.74170 Hz/cm



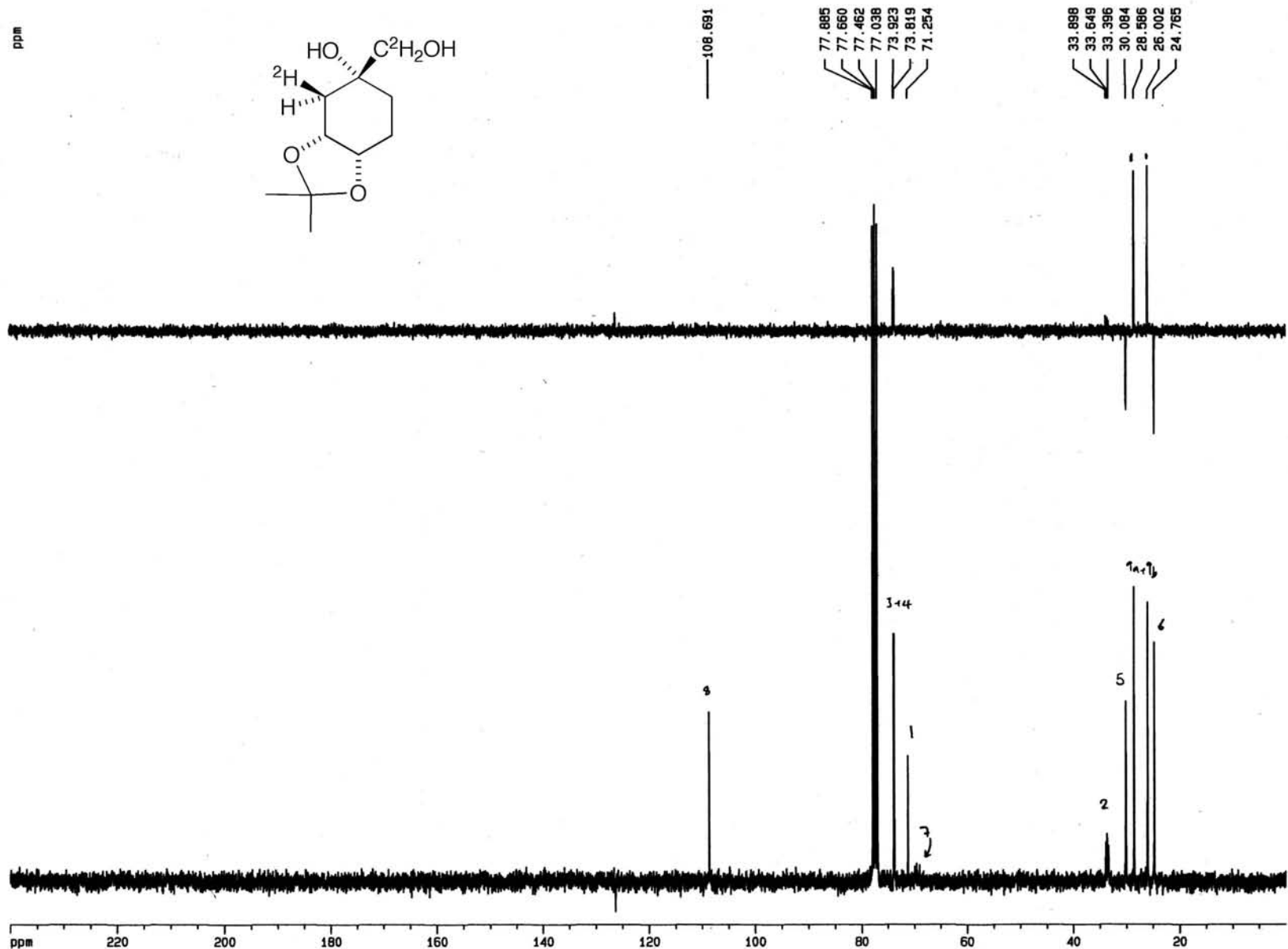
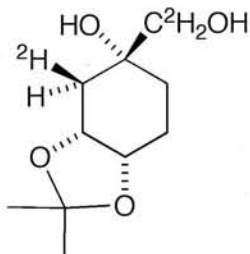
Current Data Parameters
 NAME at149
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 8.28
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zg30
 TD 32768
 SOLVENT CDC13
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 90.5
 DW 81.000 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 10.50 usec
 DE 5.50 usec
 SFO1 300.1318534 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300256 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05202 Hz/cm

ppm



Current Data Parameters
 NAME at151-c
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters

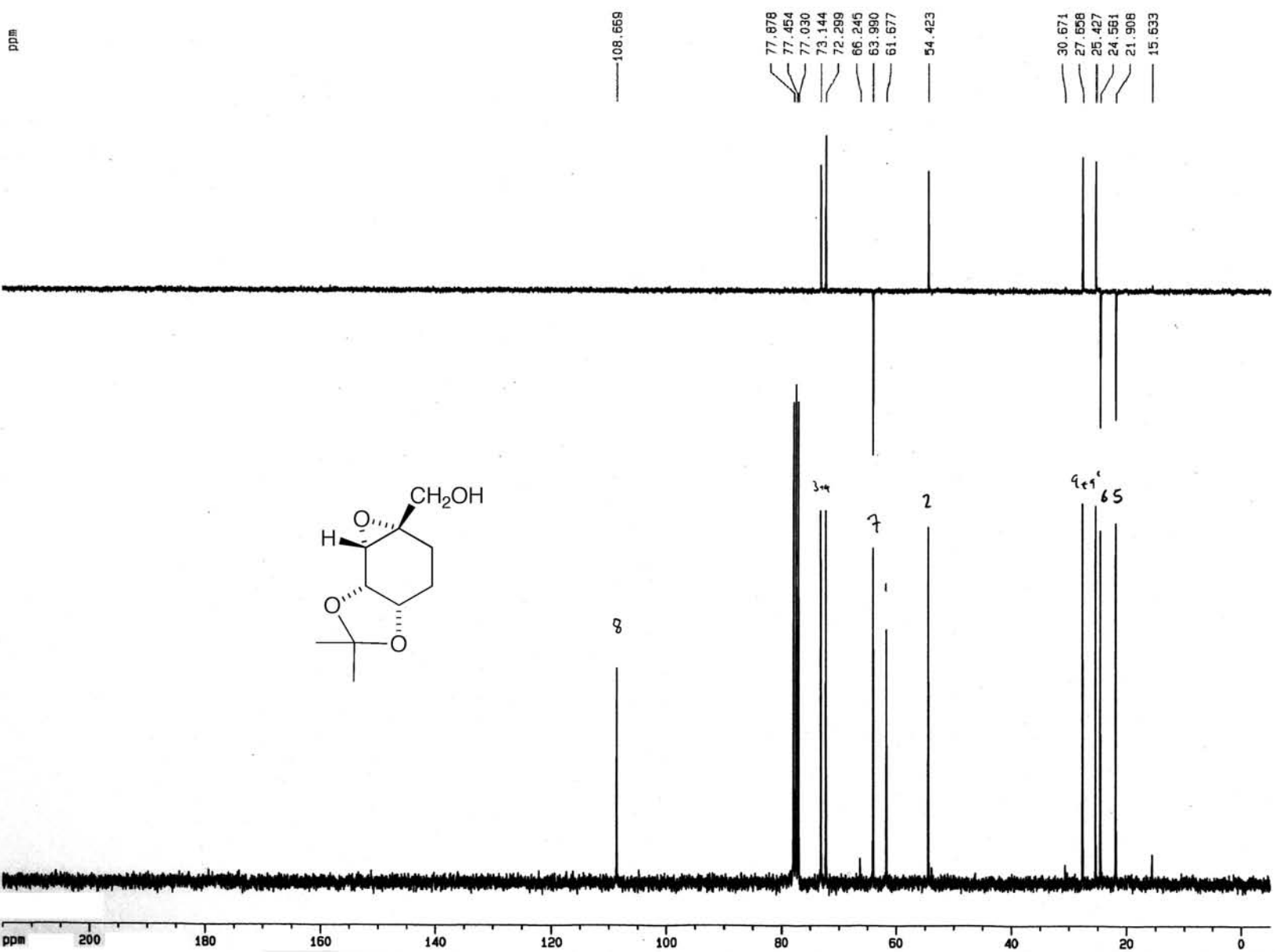
Date_ 500000
 Time 20.28
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 8192
 DM 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D12 0.00002000 sec
 PL13 18.00 dB
 D1 3.00000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1312005 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 16.00 dB
 P1 6.00 usec
 DE 5.50 usec
 SF01 75.4772501 MHz
 NUC1 13C
 PL1 -3.00 dB
 D11 0.03000000 sec

F2 - Processing parameters

SI 32768
 SF 75.4677190 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters

CX 30.00 cm
 F1P 240.000 ppm
 F1 18112.25 Hz
 F2P 0.000 ppm
 F2 0.00 Hz
 PPMCM 8.00000 ppm/cm
 HZCM 603.74170 Hz/cm



Current Data Parameters
 NAME at264
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010212
 Time 20.58
 INSTRUM spect
 PROBHD dual

PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 256
 DS 4
 SMH 18832.393 Hz
 FIDRES 0.287360 Hz
 AQ 1.7400308 sec
 RG 8192
 DM 26.550 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 5.50 usec
 PL1 -3.00 dB
 SF01 75.4760200 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -6.00 dB
 PL13 18.00 dB
 SF02 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677190 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 215.000 ppm
 F1 16225.56 Hz
 F2P -5.000 ppm
 F2 -377.34 Hz
 PPMCM 7.33333 ppm/cm

HZ

1417.86
1235.79
1230.55
1225.37
1215.86
1210.58
1205.28
1200.03
1145.12
979.80
966.44
964.99
953.59
586.12
548.88
542.64
535.62
534.14
528.17
523.24
486.29
482.93
480.16
473.12
466.36
437.80
431.26
425.13
407.72
392.96
385.01
395.71

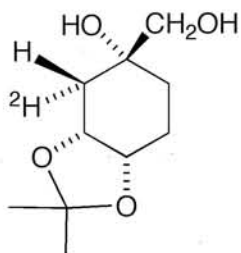
Current Data Parameters
NAME at313
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010612
Time 12.04
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zg30
TD 32768
SOLVENT MeOH
NS 16
DS 2
SWH 4816.956 Hz
FIDRES 0.147002 Hz
AQ 3.4013684 sec
RG 40.3
DM 103.800 usec
DE 5.50 usec
TE 300.0 K
D1 1.00000000 sec

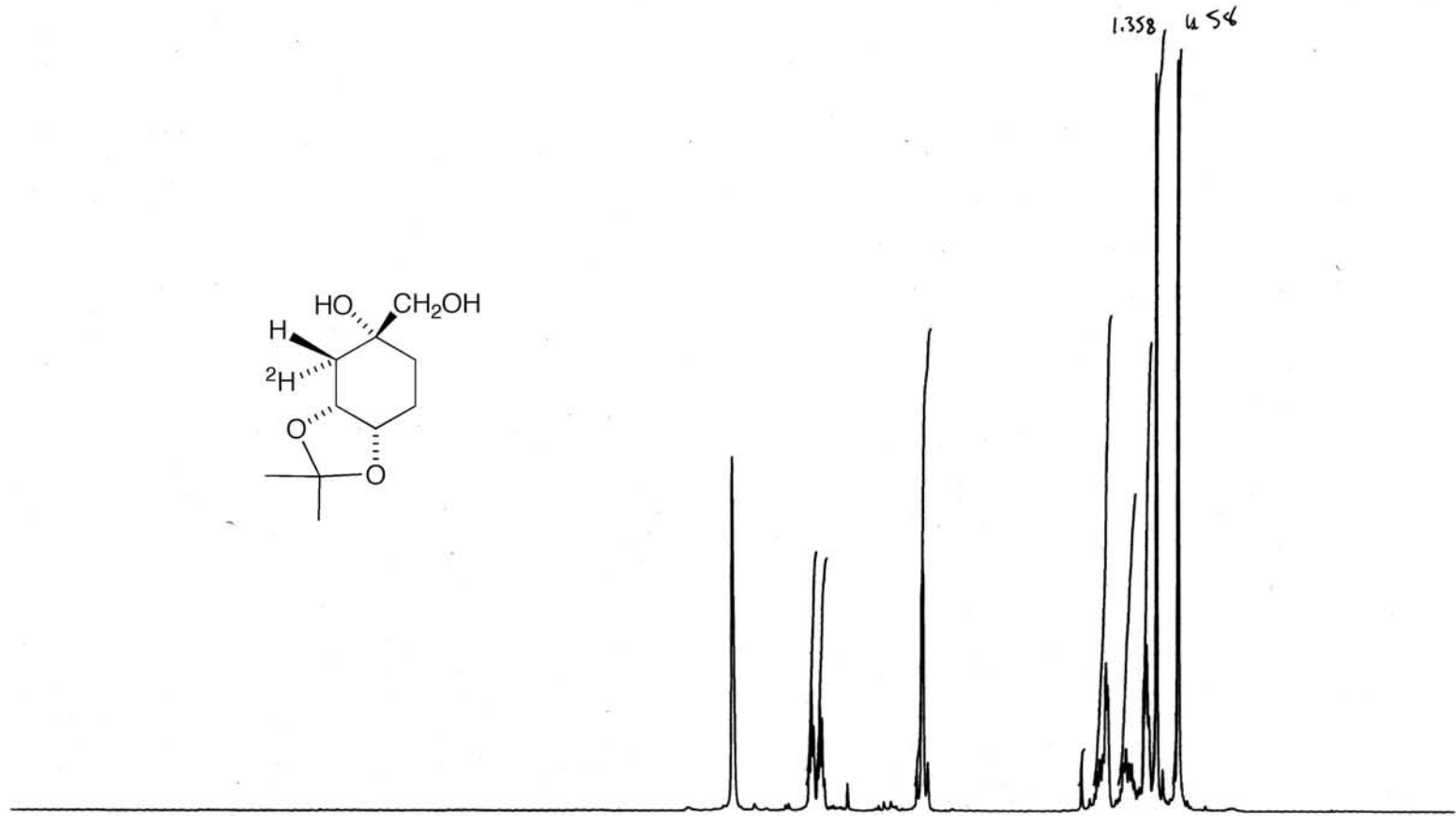
----- CHANNEL f1 -----
NUC1 1H
P1 10.50 usec
PL1 -6.00 dB
SF01 300.1307620 MHz

F2 - Processing parameters
SI 16384
SF 300.1300430 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 30.00 cm
F1P 11.000 ppm
F1 3301.43 Hz
F2P -1.000 ppm
F2 -300.13 Hz
PPMCM 0.40000 ppm/cm
HZCM 120.05202 Hz/cm



1.358 4.56

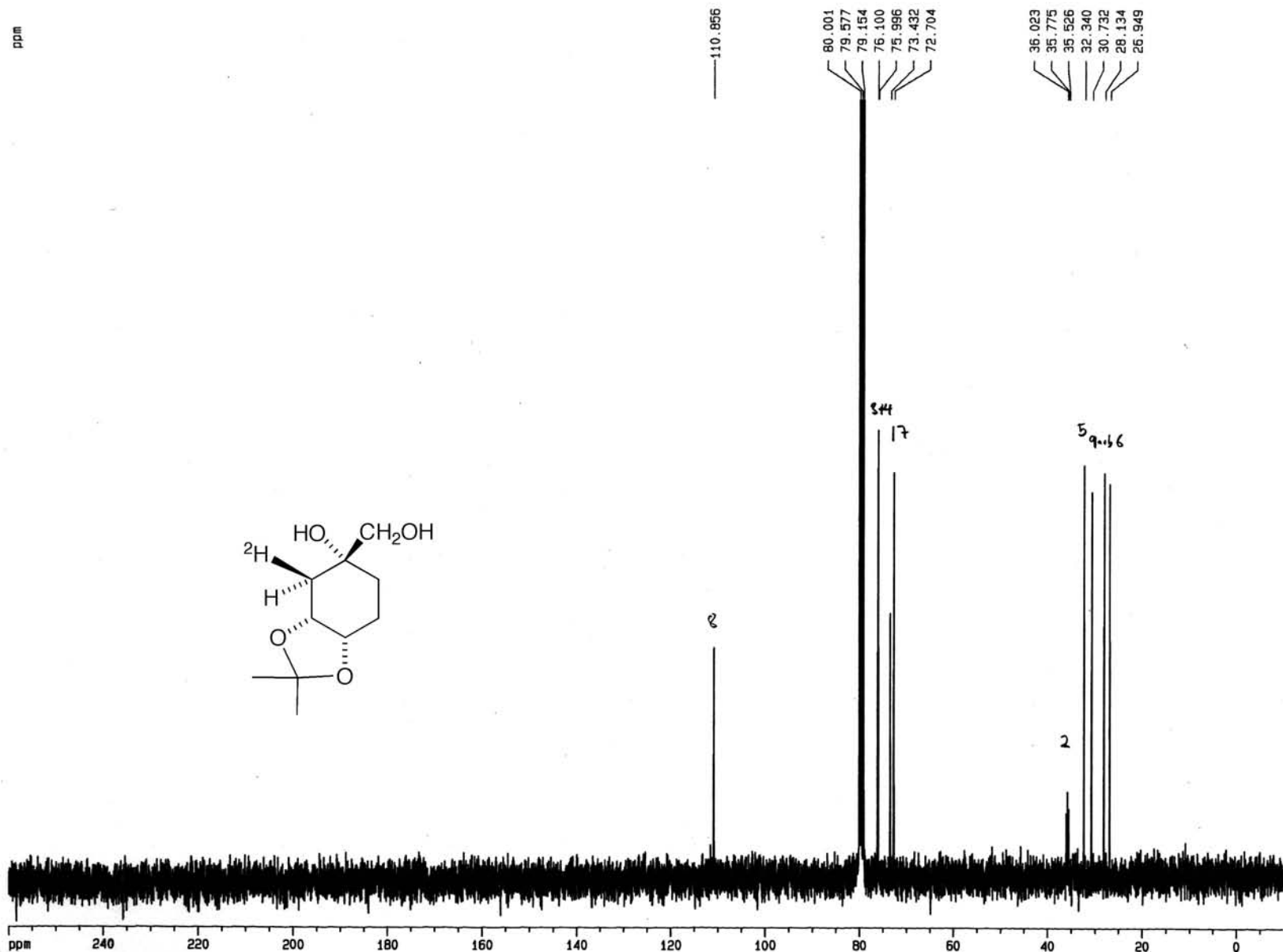


1.0092
0.9824
1.9778
0.1547
2.0339
1.2628
1.9189
3.2768
3.1942

ppm 10 9 8 7 6 5 4 3 2 1 0

Integral

ppm



Current Data Parameters
 NAME at273c1mcbn
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010312
 Time 15.49
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 295
 DS 2
 SMH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 1290.2
 DM 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D1 3.00000000 sec
 D11 0.03000000 sec
 D12 0.00002000 sec

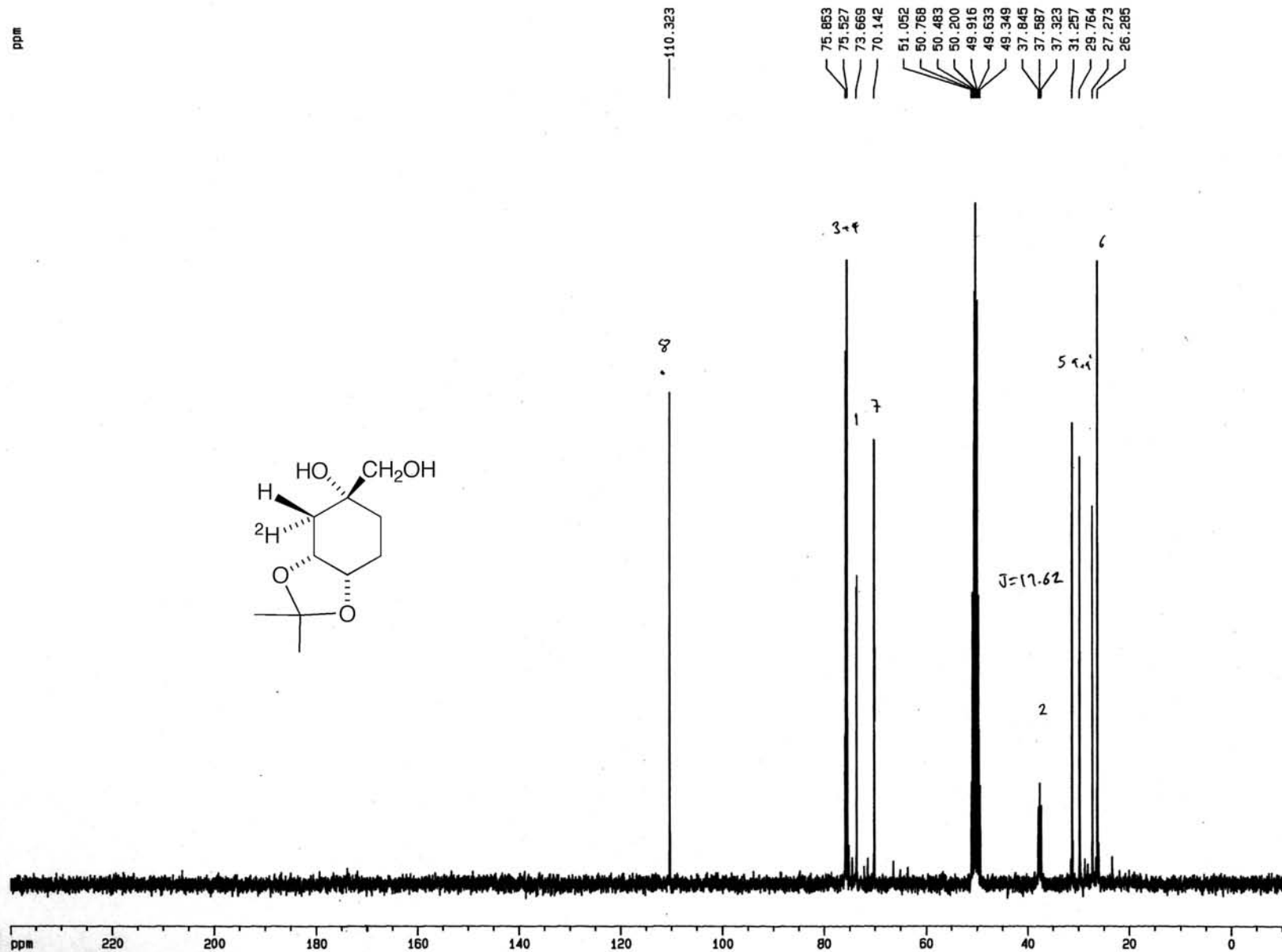
===== CHANNEL f1 =====
 NUC1 13C
 P1 6.00 usec
 PL1 -3.00 dB
 SFO1 75.4772501 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -6.00 dB
 PL12 16.00 dB
 PL13 18.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4675571 MHz
 MDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 260.000 ppm
 F1 19621.57 Hz
 F2P -10.000 ppm
 F2 -754.68 Hz
 PPMCM 9.00000 ppm/cm
 HZCM 679.20801 Hz/cm

ppm



Current Data Parameters

NAME at313c
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010612
Time 12.17
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zgpg30
TD 65536
SOLVENT ~~CDCl3~~ MeOH
NS 162
DS 2
SWH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 2298.8
DW 21.000 usec
DE 5.50 usec
TE 300.0 K
D1 3.0000000 sec
D11 0.0300000 sec
D12 0.0000200 sec

CHANNEL f1

NUC1 13C
P1 6.00 usec
PL1 -3.00 dB
SF01 75.472501 MHz

CHANNEL f2

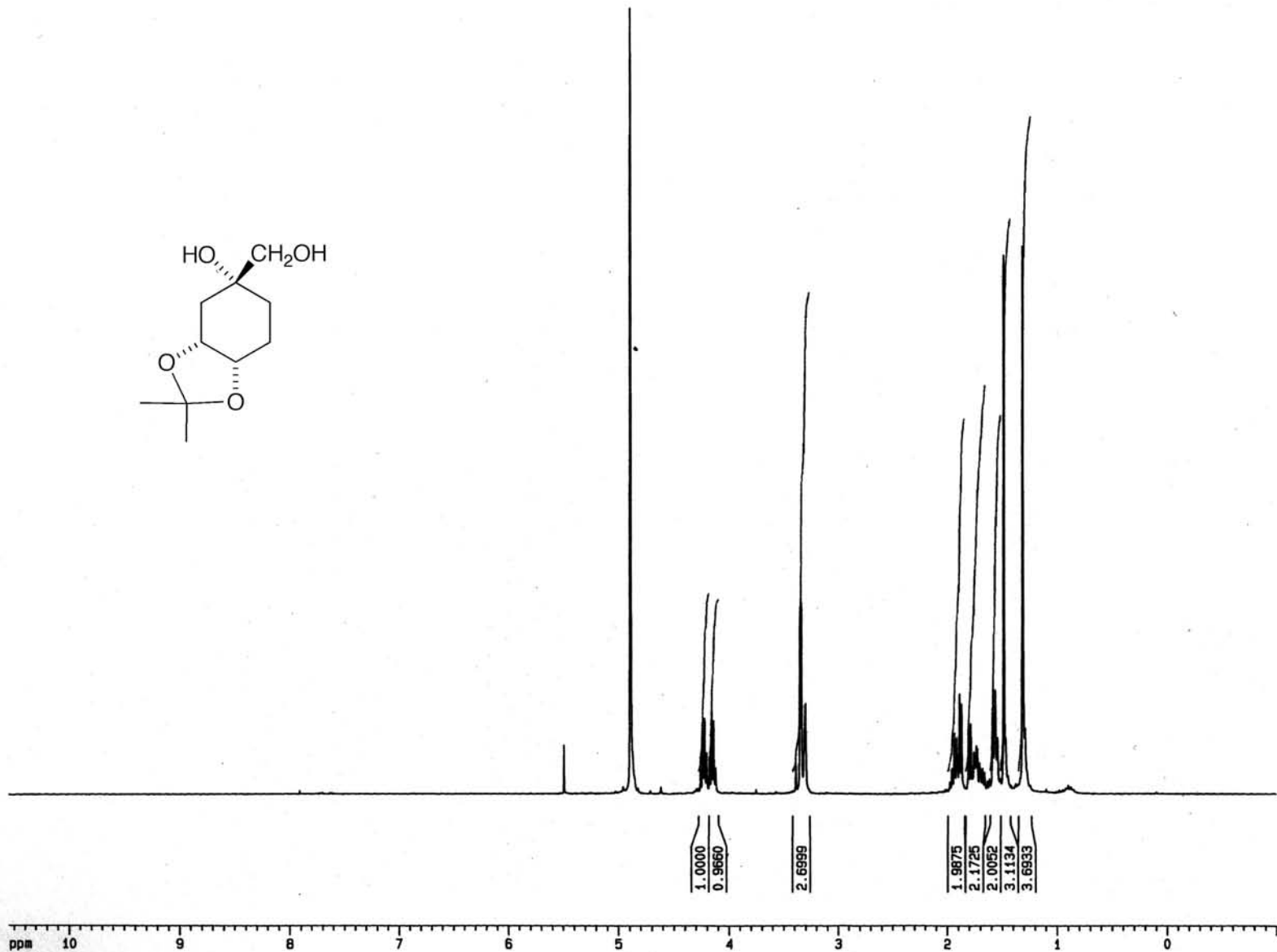
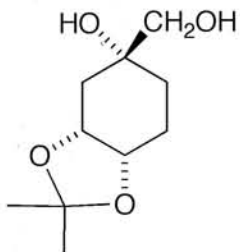
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 300.1312005 MHz

F2 - Processing parameters

SI 32768
SF 75.4675571 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 30.00 cm
F1P 240.000 ppm
F1 18112.21 Hz
F2P -10.000 ppm
F2 -754.68 Hz
PPMCM 8.33333 ppm/cm
HZCM 628.69636 Hz/cm



Current Data Parameters
 NAME at296meoh
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010319
 Time 10.03
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zg30
 TD 32768
 SOLVENT MeOH
 NS 16
 DS 2
 SMH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 256
 DW 103.800 usec
 DE 5.50 usec
 TE 300.0 K
 D1 1.00000000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 10.50 usec
 PL1 -6.00 dB
 SF01 300.1307620 MHz

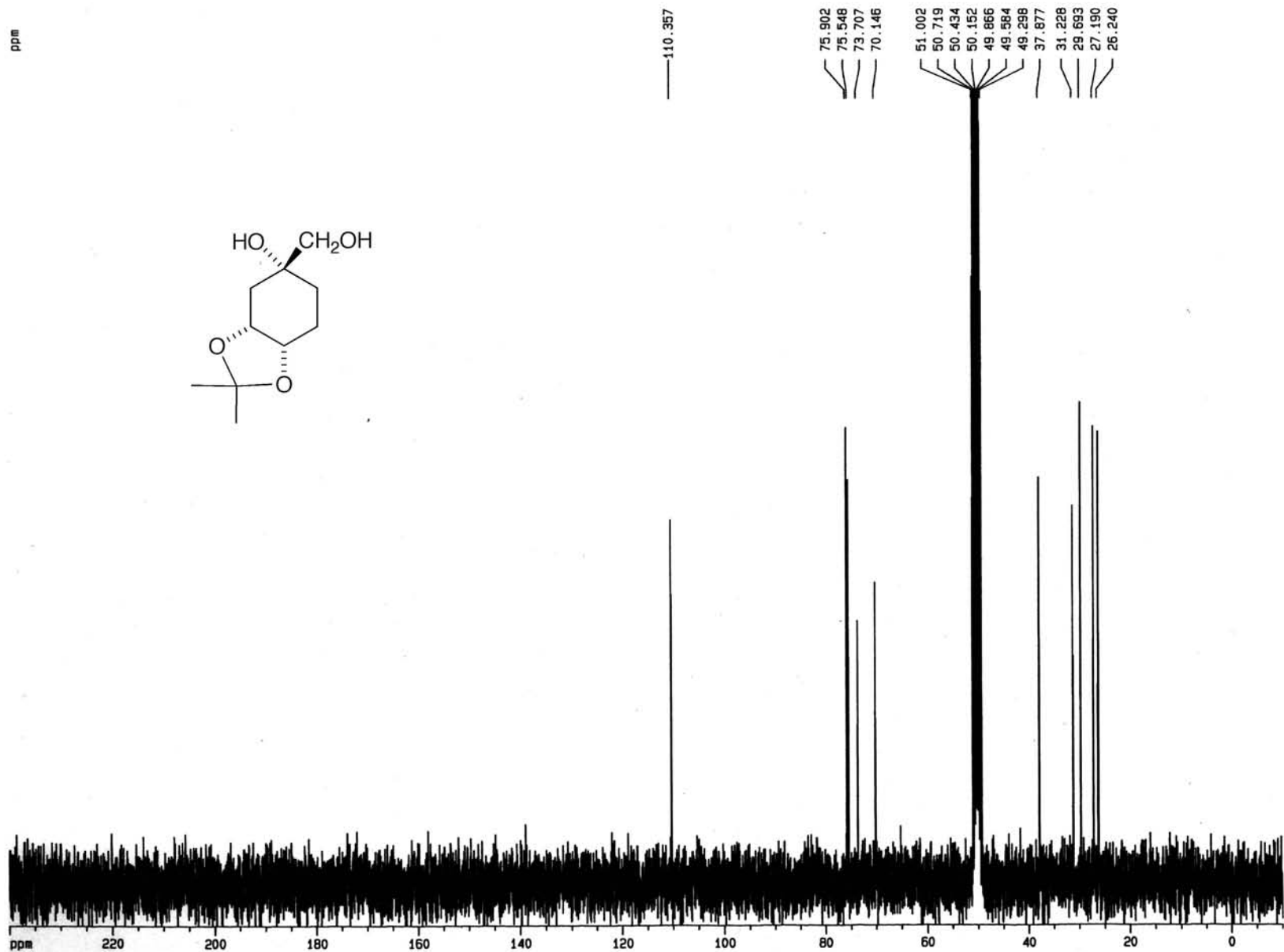
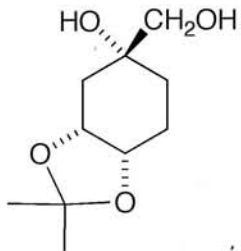
F2 - Processing parameters
 SI 16384
 SF 300.1300059 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 11.000 ppm
 F1 3301.43 Hz
 F2P -1.000 ppm
 F2 -300.13 Hz
 PPMCM 0.40000 ppm/cm
 HZCM 120.05200 Hz/cm

Integral

ppm 10 9 8 7 6 5 4 3 2 1 0

ppm



Current Data Parameters
 NAME at278c
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010717
 Time 17.24
 INSTRUM spect
 PROBHD 5mm GUAD 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 182
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 4096
 DW 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D1 3.0000000 sec
 D11 0.0300000 sec
 D12 0.0000200 sec

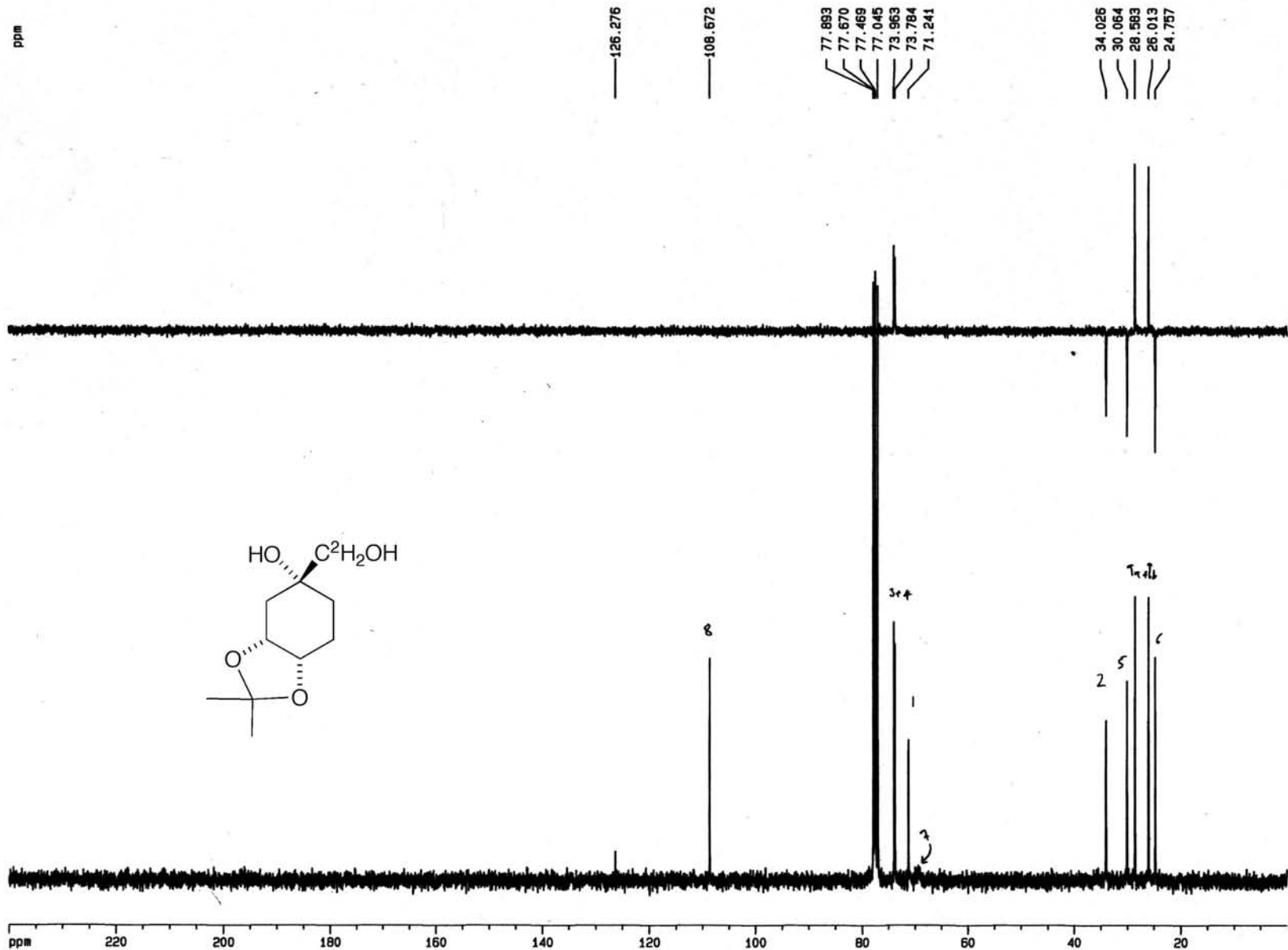
----- CHANNEL f1 -----
 NUC1 13C
 P1 6.00 usec
 PL1 -3.00 dB
 SFO1 75.4772501 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -6.00 dB
 PL12 16.00 dB
 PL13 18.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4675571 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 240.000 ppm
 F1 18112.21 Hz
 F2P -10.000 ppm
 F2 -754.68 Hz
 PPMCM 8.33333 ppm/cm
 HZCM 628.89636 Hz/cm

ppm



Current Data Parameters
 NAME at145
 EXPNO 12
 PROCNO 1

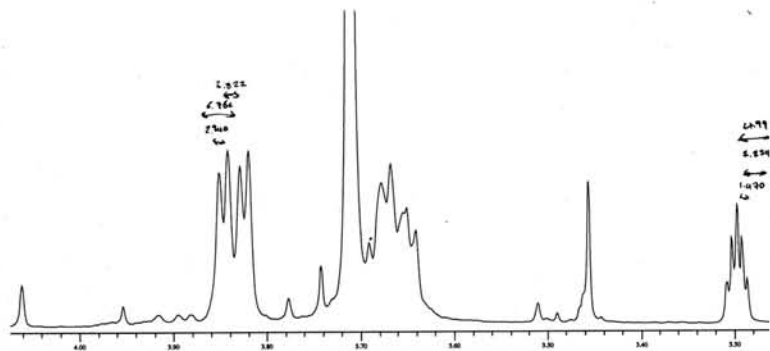
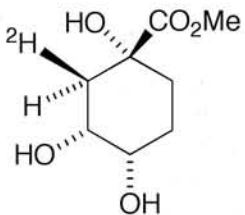
F2 - Acquisition Parameters
 Date_ 500000
 Time 23.26
 INSTRUM dpx300
 PROBHD 5 mm Dual 13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 256
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 3649.1
 DN 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D12 0.00002000 sec
 PL13 18.00 dB
 D1 3.00000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1312005 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 16.00 dB
 P1 6.00 usec
 DE 5.50 usec
 SF01 75.4772501 MHz
 NUC1 13C
 PL1 -3.00 dB
 D11 0.03000000 sec

F2 - Processing parameters
 SI 32768
 SF 75.4677190 MHz
 MDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 240.000 ppm
 F1 18112.25 Hz
 F2P 0.000 ppm
 F2 0.00 Hz
 PPMCM 8.00000 ppm/cm
 HZCM 603.74170 Hz/cm

Hz

1463.14
1155.98
1153.24
1149.28
1146.51
1113.67
1107.90
1103.92
1100.87
1095.80
1082.82
1037.40
991.27
989.67
988.12
584.43
580.20
576.48
569.05
560.59
557.64
548.86
543.91
542.39
486.50
481.18
475.96
259.02



Integral

ppm 10 9 8 7 6 5 4 3 2 1 0

0.9817
3.9823
4.1925
1.0653

Current Data Parameters
NAME at320
EXPNO 1
PROCNO 1

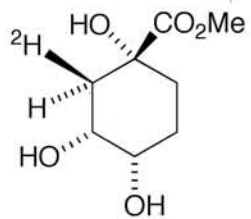
F2 - Acquisition Parameters
Date_ 20010717
Time 10.54
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zg30
TD 32768
SOLVENT ~~CDCl3~~ MeOH
NS 78
DS 2
SWH 4816.956 Hz
FIDRES 0.147002 Hz
AQ 3.4013684 sec
RG 128
DN 103.800 usec
DE 5.50 usec
TE 300.0 K
D1 1.00000000 sec

----- CHANNEL f1 -----
NUC1 1H
P1 10.50 usec
PL1 -6.00 dB
SFO1 300.1307620 MHz

F2 - Processing parameters
SI 16384
SF 300.1300084 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 30.00 cm
F1P 11.000 ppm
F1 3301.43 Hz
F2P -1.000 ppm
F2 -300.13 Hz
PPMCM 0.40000 ppm/cm
HZCM 120.05199 Hz/cm

— 176.211



7

77.253
76.999
76.745
73.887
70.283
69.634

— 53.178

37.236
37.082
36.930
33.352
32.176
29.681
26.369
24.353

3.4

6

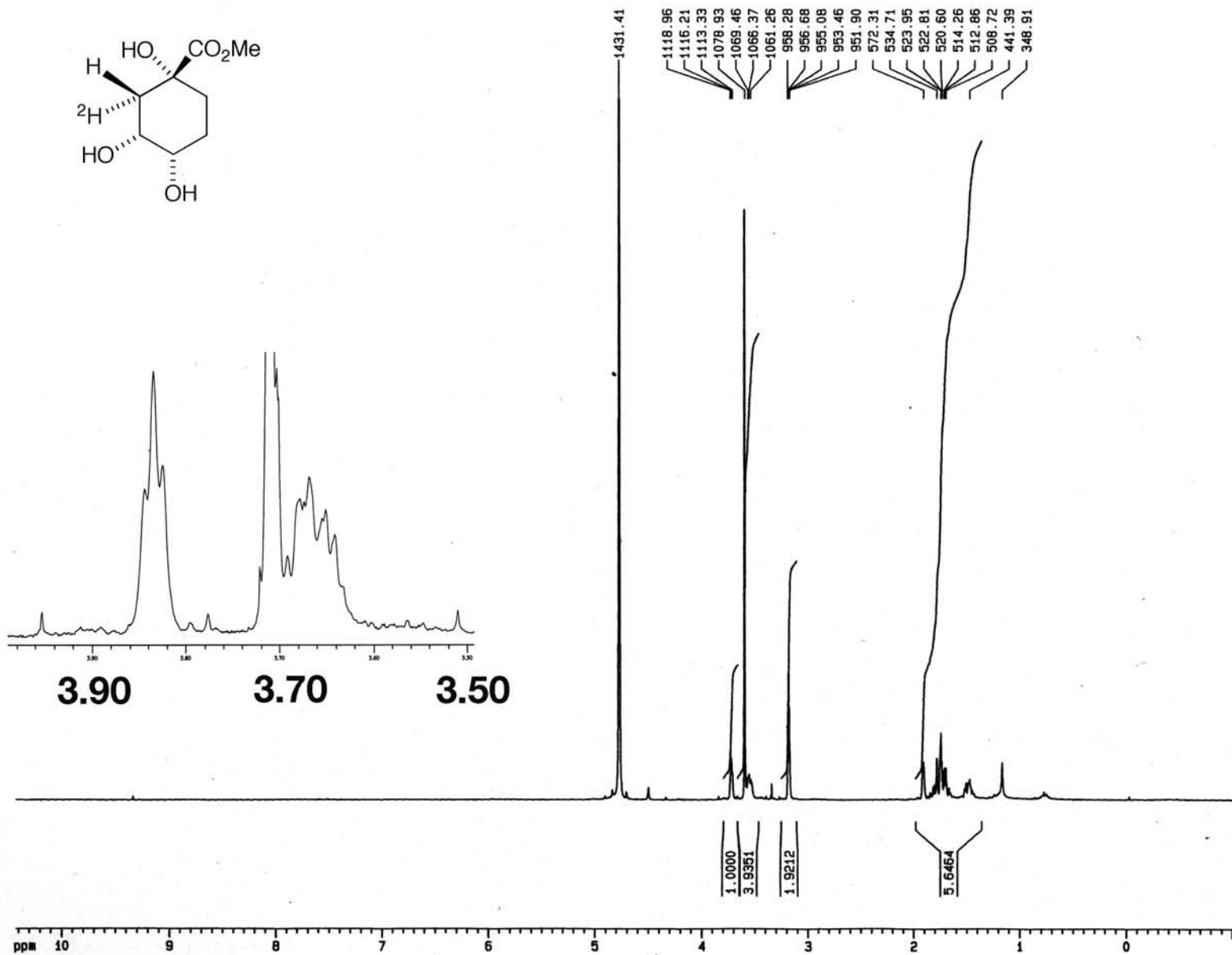
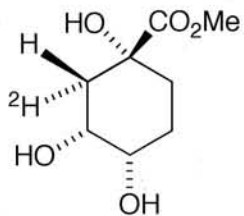
5

8

2

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10

Hz



Current Data Parameters

NAME at314
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010614
Time 11.49
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zg30
TD 32768
SOLVENT MeOH
NS 50
DS 2
SWH 4816.956 Hz
FIDRES 0.147002 Hz
AQ 3.4013684 sec
RG 512
DM 103.800 usec
DE 5.50 usec
TE 300.0 K
D1 1.00000000 sec

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

NUC1 1H
P1 10.50 usec
PL1 -6.00 dB
SF01 300.1307620 MHz

F2 - Processing parameters

SI 16384
SF 300.1300430 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 30.00 cm
F1P 11.000 ppm
F1 3301.43 Hz
F2P -1.000 ppm
F2 -300.13 Hz
PPMCM 0.40000 ppm/cm
HZCM 120.05202 Hz/cm

Integral

ppm 10 9 8 7 6 5 4 3 2 1 0

ppm

—178.381

80.098
79.674
79.249
76.536
72.846
72.274

—55.428

39.763
39.667
39.406
39.140
35.789

—26.958

Current Data Parameters
NAME at318c2
EXPNO 1
PROCNO 1

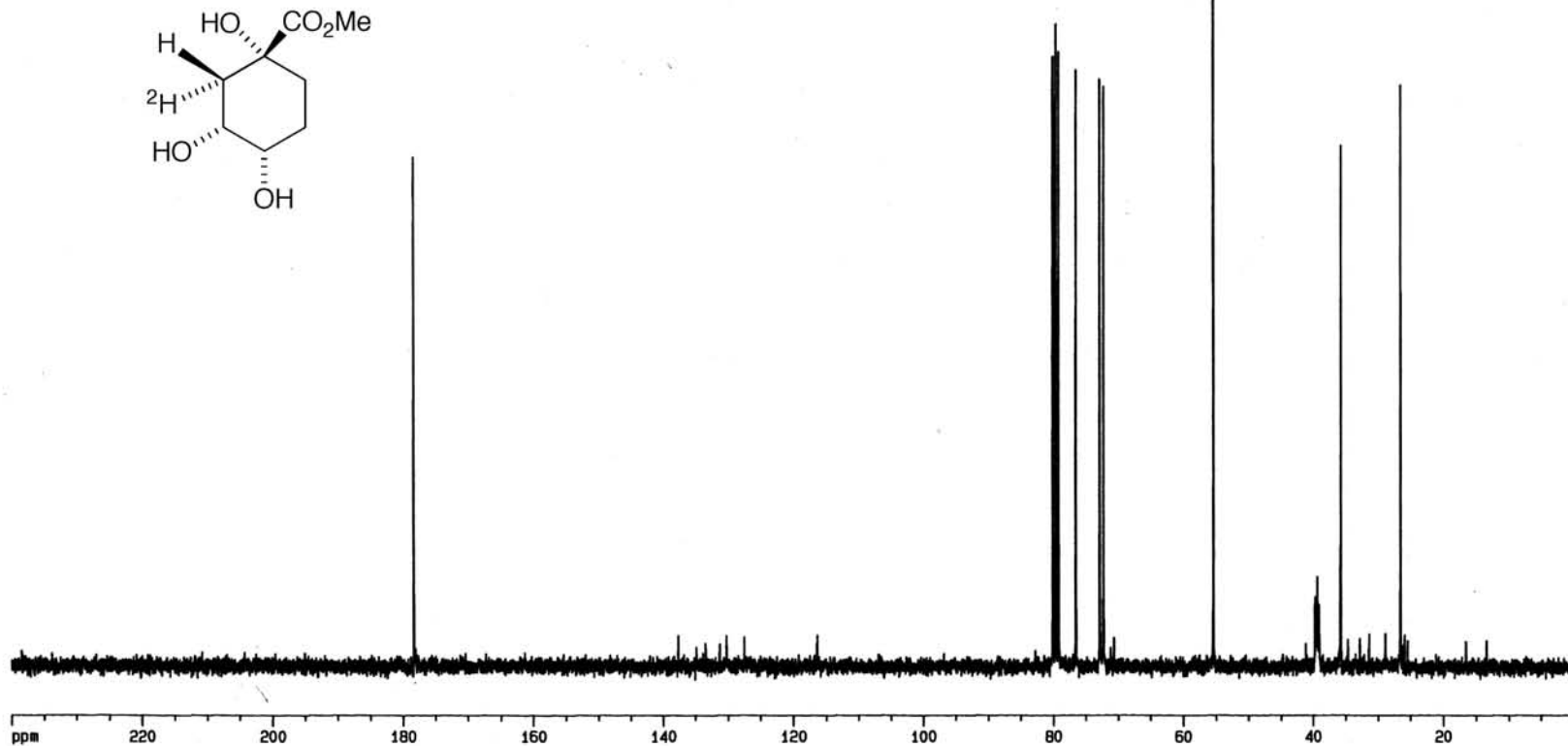
F2 - Acquisition Parameters
Date_ 20010626
Time 9.17
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 210
DS 2
SWH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 1149.4
DW 21.000 usec
DE 5.50 usec
TE 300.0 K
D1 3.0000000 sec
D11 0.0300000 sec
D12 0.00002000 sec

----- CHANNEL f1 -----
NUC1 13C
P1 6.00 usec
PL1 -3.00 dB
SF01 75.4772501 MHz

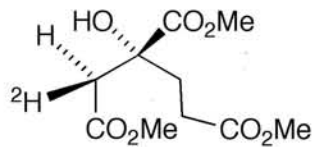
----- CHANNEL f2 -----
CPOPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 300.1312005 MHz

F2 - Processing parameters
SI 32768
SF 75.4675571 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

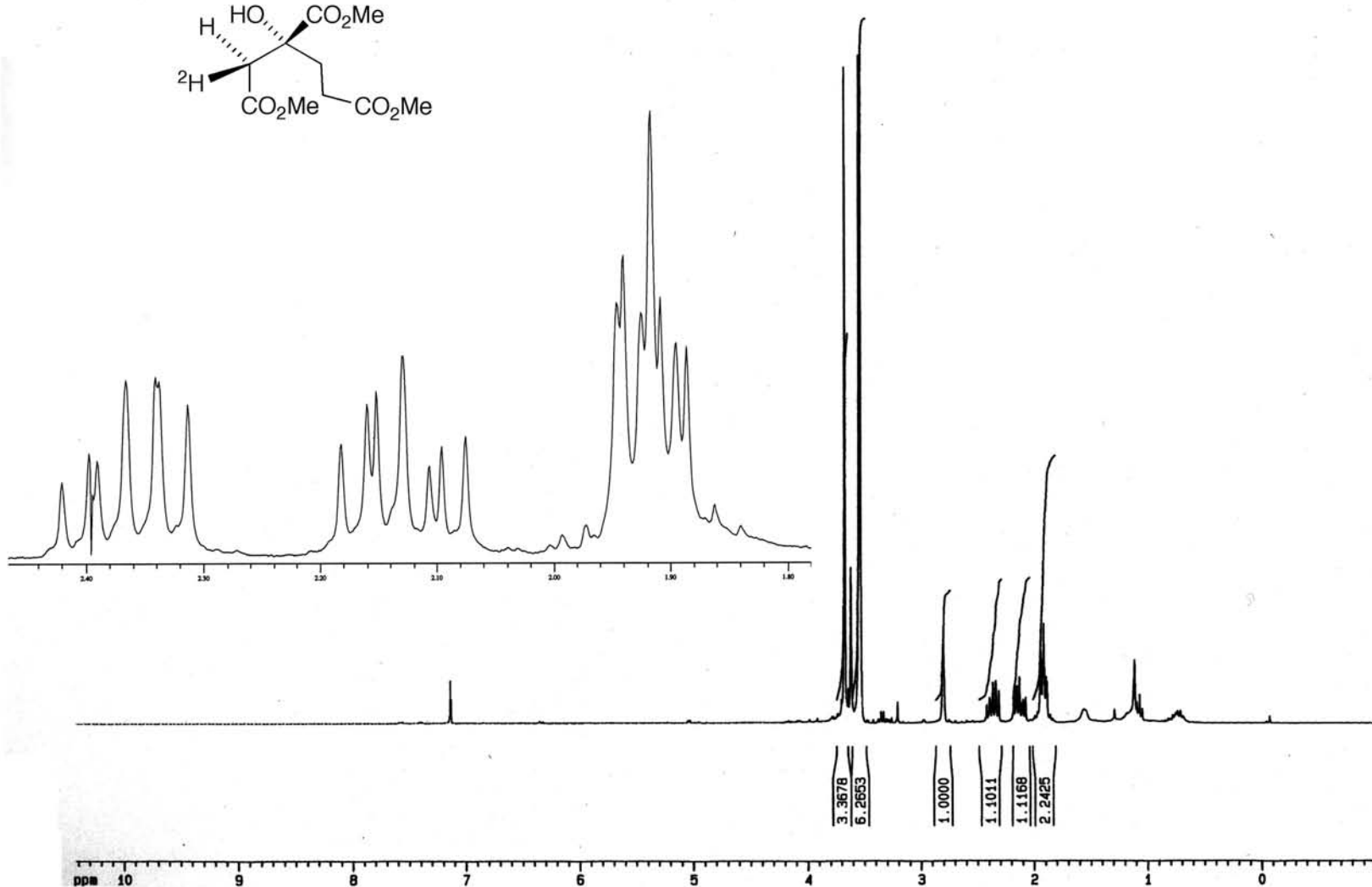
1D NMR plot parameters
CX 30.00 cm
F1P 240.000 ppm
F1 18112.21 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 8.00000 ppm/cm
HZCM 603.74042 Hz/cm



2141.89



1111.04
1102.04
1093.67
1085.96
1064.01
1060.10
963.49
840.94
719.57
717.54
710.26
702.53
694.33
655.07
648.40
646.06
639.27
629.15
622.98
583.99
582.52
577.82
575.44
572.99
569.00
566.20
334.76
328.65
321.62



Current Data Parameters
NAME at322a2
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010720
Time 9.25
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zg30
TD 32768
SOLVENT CDC13
NS 16
DS 2
SMH 4816.956 Hz
FIDRES 0.147002 Hz
AQ 3.4013684 sec
RG 181
DM 103.800 usec
DE 5.50 usec
TE 300.0 K
D1 1.00000000 sec

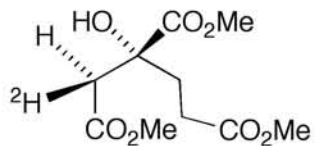
----- CHANNEL f1 -----
NUC1 1H
P1 10.50 usec
PL1 -6.00 dB
SFO1 300.1307620 MHz

F2 - Processing parameters
SI 16384
SF 300.1300430 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

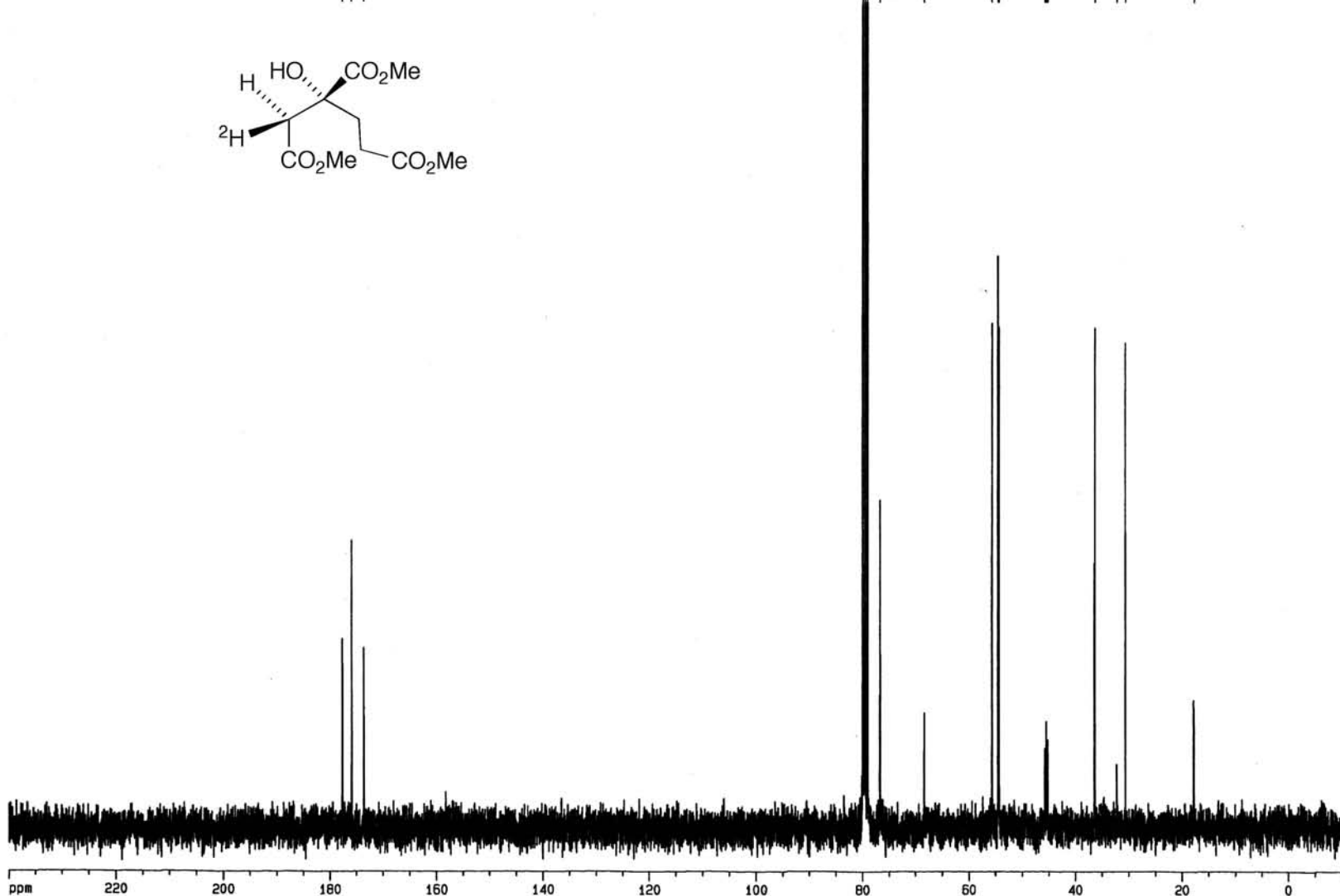
1D NMR plot parameters
CX 30.00 cm
F1P 11.000 ppm
F1 3301.43 Hz
F2P -1.000 ppm
F2 -300.13 Hz
PPMCM 0.40000 ppm/cm
HZCM 120.05202 Hz/cm

ppm

177.600
175.856
173.589



80.014
79.590
79.166
76.786
68.406
55.677
54.505
54.354
45.789
45.522
45.256
36.363
32.237
30.653
17.810



Current Data Parameters
NAME at322ac
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010719
Time 14.24
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 254
DS 2
SMH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 2048
DM 21.000 usec
DE 5.50 usec
TE 300.0 K
D1 3.0000000 sec
D11 0.0300000 sec
D12 0.00002000 sec

----- CHANNEL f1 -----
NUC1 13C
P1 6.00 usec
PL1 -3.00 dB
SF01 75.4772501 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 300.1312005 MHz

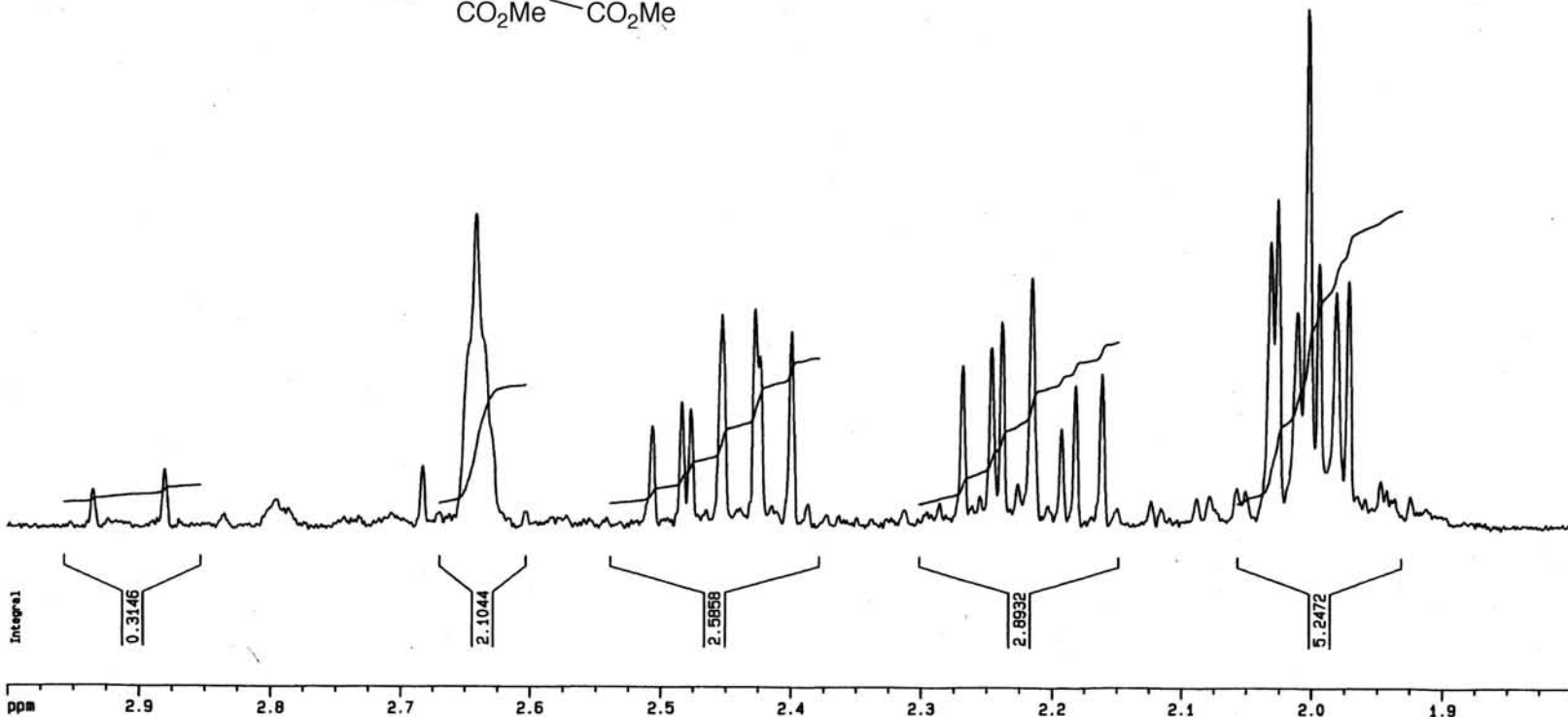
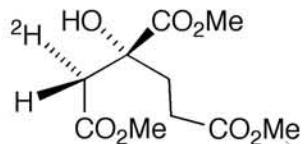
F2 - Processing parameters
SI 32768
SF 75.4675571 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 30.00 cm
F1P 240.000 ppm
F1 18112.21 Hz
F2P -10.000 ppm
F2 -754.68 Hz
PPMCM 8.33333 ppm/cm
HZCM 628.89636 Hz/cm

ppm

Hz

880.809
864.405
850.725
838.906
836.159
820.026
812.546
805.100
801.180
798.875
792.601
781.108
771.950
752.155
745.317
742.272
739.840
736.054
731.960
728.418
727.272
724.656
720.084
716.321
712.051
709.286
694.181
688.951
686.026
684.676
680.756
678.612
676.853
674.118
671.697
668.173
664.885
661.279
658.082
654.768
648.611
645.145
637.322
635.030
626.723
623.723
617.461
615.571
609.677
608.026
603.543
601.036
598.532
594.599
591.760
589.744
588.030
584.395
583.029
581.228
577.594
574.062



Current Data Parameters
NAME at321-a
EXPNO 1
PROCNO 1

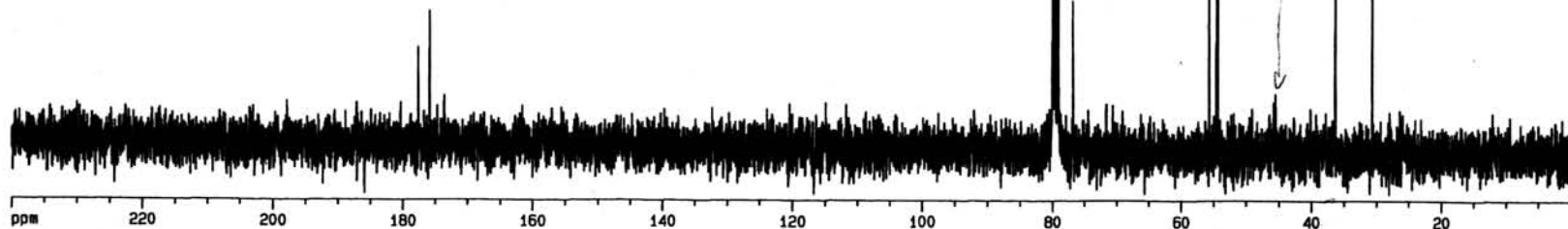
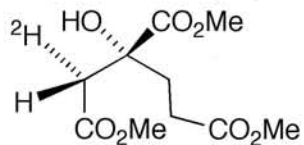
F2 - Acquisition Parameters
Date_ 20010702
Time 10.44
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zg30
TD 32768
SOLVENT CDC13
NS 32
DS 2
SWH 6172.839 Hz
FIDRES 0.188380 Hz
AQ 2.6542580 sec
RG 322.5
DW 81.000 usec
DE 5.50 usec
TE 300.0 K
D1 1.00000000 sec

----- CHANNEL f1 -----
NUC1 1H
P1 10.50 usec
PL1 -6.00 dB
SF01 300.1318534 MHz

F2 - Processing parameters
SI 65536
SF 300.1300200 MHz
WDW GM
SSB 0
LB -1.00 Hz
GB 0.33
PC 1.00

1D NMR plot parameters
CX 30.00 cm
F1P 3.000 ppm
F1 900.39 Hz
F2P 1.800 ppm
F2 540.23 Hz
PPMCM 0.04000 ppm/cm
HZCM 12.00520 Hz/cm

ppm

177.600
175.85879.995
79.571
79.148
76.80455.684
54.524
54.36936.375
30.663

Current Data Parameters
 NAME at321ac
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010702
 Time 11.09
 INSTRUM spect
 PROBHD 5mm QUAD 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 473
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 1149.4
 DW 21.000 usec
 DE 5.50 usec
 TE 300.0 K
 D1 3.00000000 sec
 D11 0.03000000 sec
 D12 0.00002000 sec

----- CHANNEL f1 -----
 NUC1 13C
 P1 6.00 usec
 PL1 -3.00 dB
 SF01 75.472501 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -6.00 dB
 PL12 16.00 dB
 PL13 18.00 dB
 SF02 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4675571 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 240.000 ppm
 F1 18112.21 Hz
 F2P 0.000 ppm
 F2 0.00 Hz
 PPMCM 8.00000 ppm/cm
 HZCM 603.74042 Hz/cm

Current Data Parameters

NAME at330
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010801
Time 11.33
INSTRUM spect
PROBHD dual

PULPROG zg30
TD 65536
SOLVENT D2O
NS 16
DS 2
SMH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 812.7
DW 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====

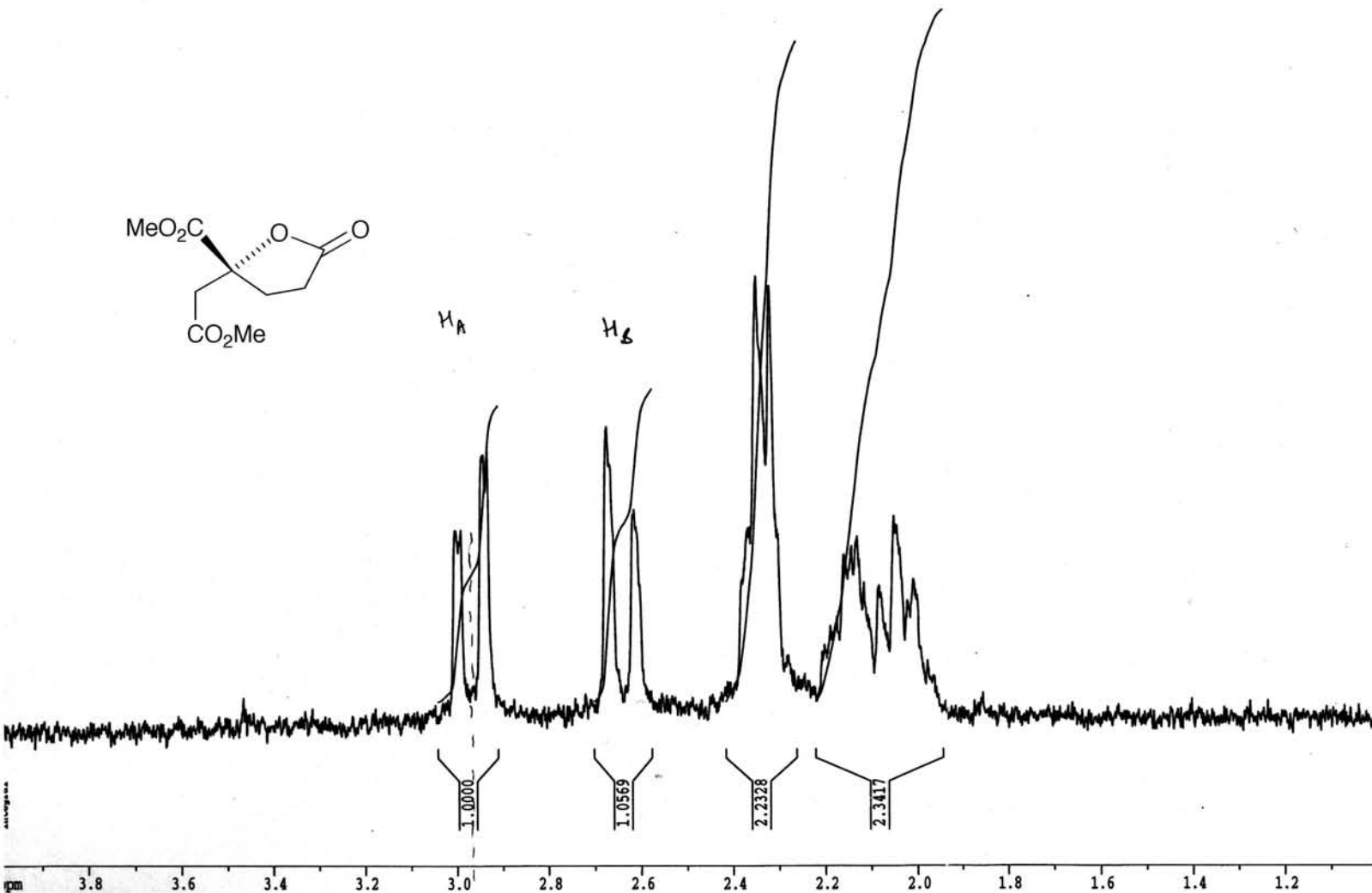
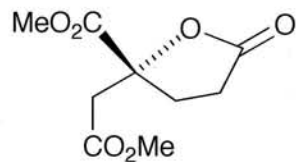
NUC1 1H
P1 7.00 usec
PL1 -6.00 dB
SF01 300.1318534 MHz

F2 - Processing parameters

SI 32768
SF 300.1300701 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 30.00 cm
F1P 4.000 ppm
F1 1200.52 Hz
F2P 1.000 ppm
F2 300.13 Hz
PPMCM 0.10000 ppm/cm
HZCM 30.01301 Hz/cm

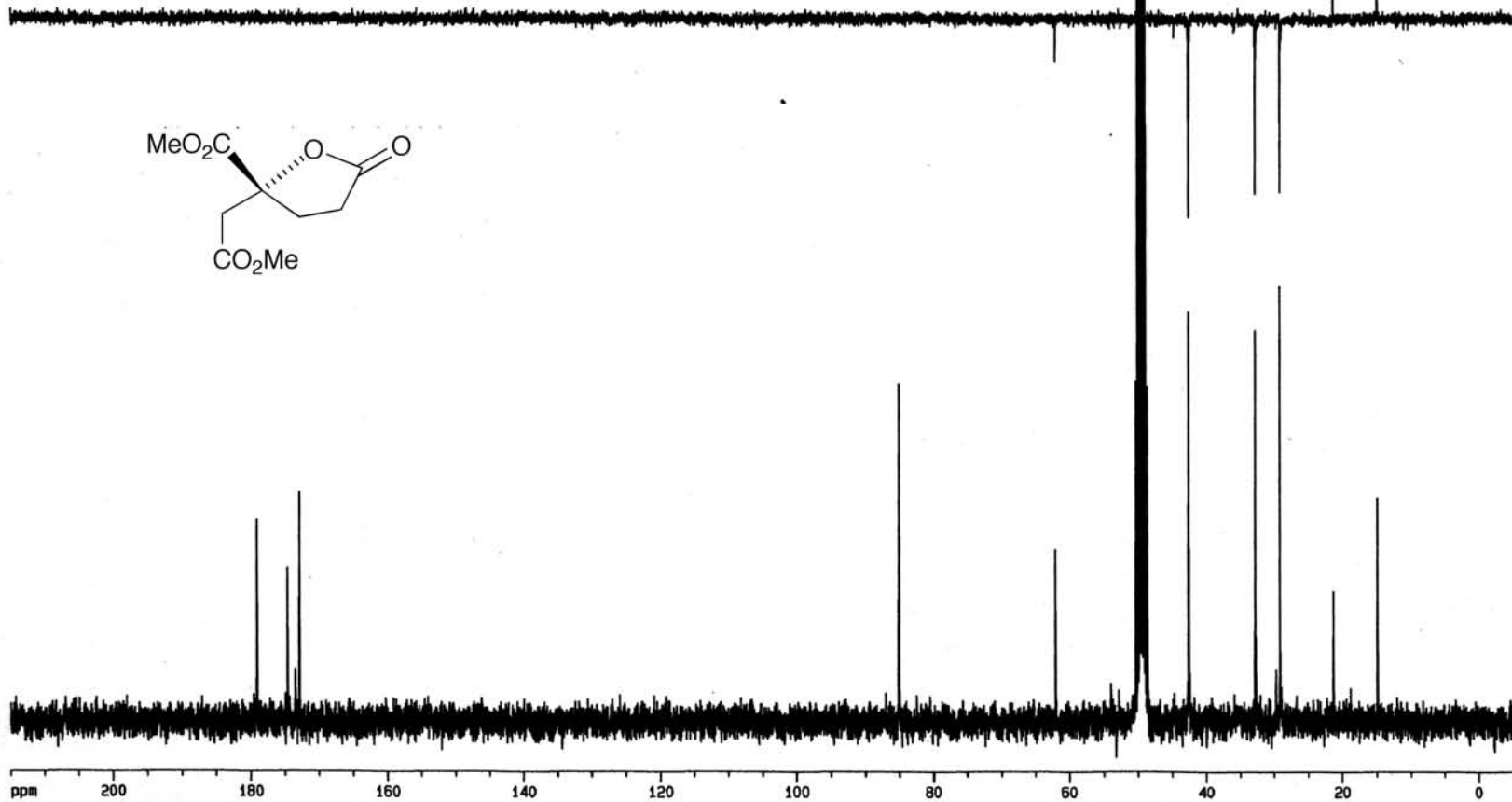
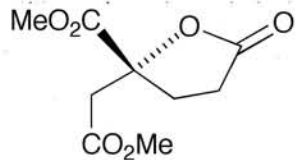


ppm

179.086 C=O
 174.562 C=O
 172.836 C=O

85.073 S

61.972
 50.278
 49.995
 49.711
 49.426
 49.142
 48.859
 48.574
 42.542 C
 32.749
 29.678
 29.135
 21.305
 14.884



Current Data Parameters
 NAME at269
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010301
 Time 0.18
 INSTRUM spect
 PROBHD dual

PULPROG zgpg30
 TD 65536
 SOLVENT MeOH
 NS 256
 DS 4
 SMH 18832.393 Hz
 FIDRES 0.287360 Hz
 AQ 1.7400308 sec
 RG 8192
 DW 26.550 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 D12 0.0000200 sec

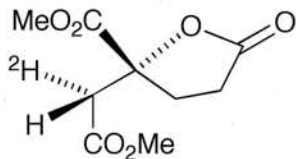
===== CHANNEL f1 =====
 NUC1 13C
 P1 5.50 usec
 PL1 -3.00 dB
 SF01 75.4760200 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -6.00 dB
 PL12 16.00 dB
 PL13 18.00 dB
 SF02 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4676118 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 215.000 ppm
 F1 16225.54 Hz
 F2P -5.000 ppm
 F2 -377.34 Hz
 PPMCM 7.33333 ppm/cm

Hz



1131.43
1127.12
1125.49
1113.75
1096.01
1091.75
1088.24
872.65
798.18
788.35
782.76
778.57
772.89
769.58
763.40
760.29
750.26
746.70
740.72
706.05
696.14
692.91
686.11
682.90
358.14

Current Data Parameters
NAME at321-b
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010702
Time 11.32
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SMH 6172.839 Hz
FIDRES 0.188380 Hz
AQ 2.6542580 sec
RG 256
DW 81.000 usec
DE 5.50 usec
TE 300.0 K
D1 1.00000000 sec

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

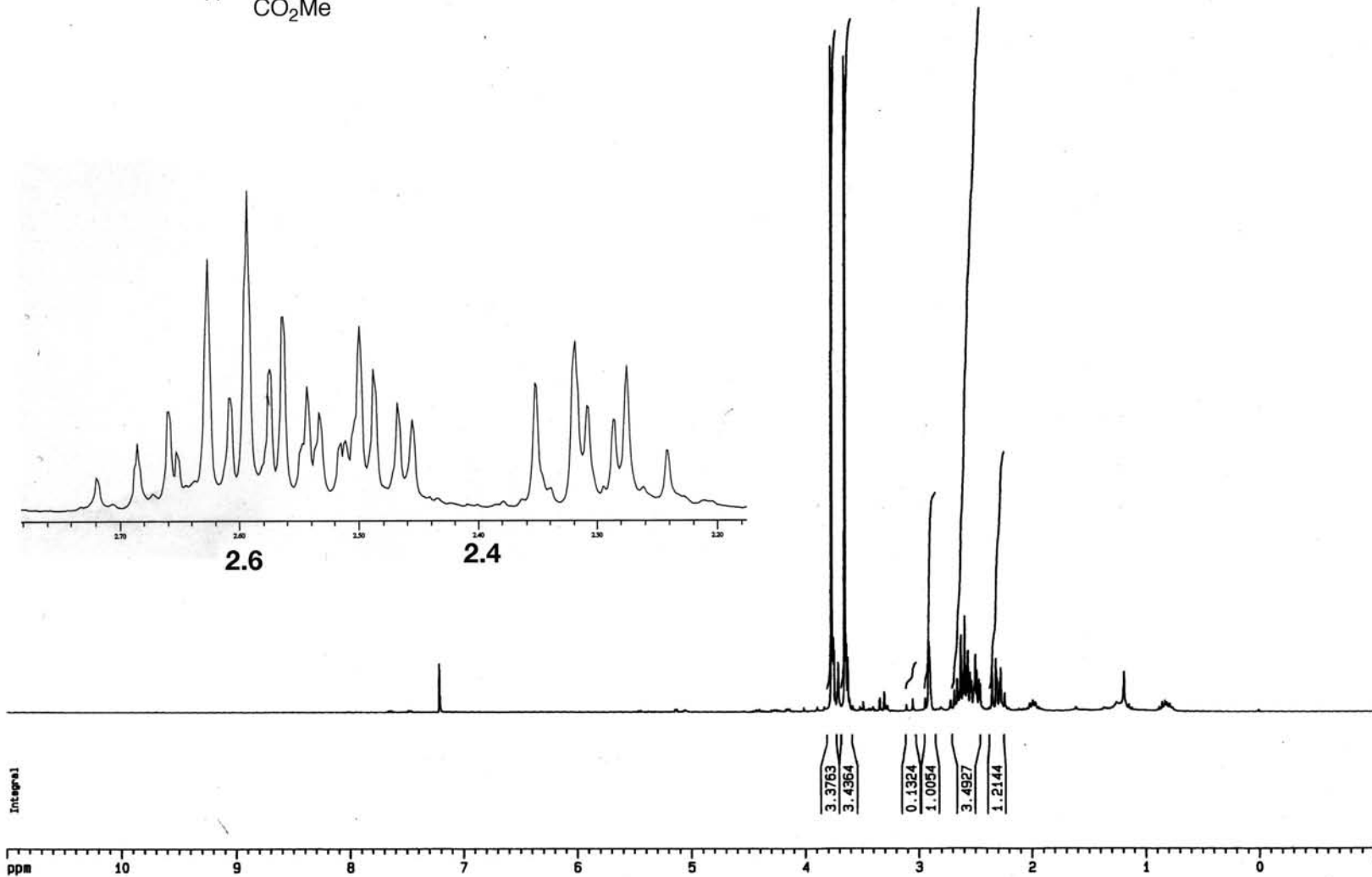
NUC1 1H
P1 10.50 usec
PL1 -6.00 dB
SFO1 300.1318534 MHz

F2 - Processing parameters

SI 16384
SF 300.1300200 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 30.00 cm
F1P 11.000 ppm
F1 3301.43 Hz
F2P -1.000 ppm
F2 -300.13 Hz
PPMCM 0.40000 ppm/cm
HZCM 120.05200 Hz/cm



ppm

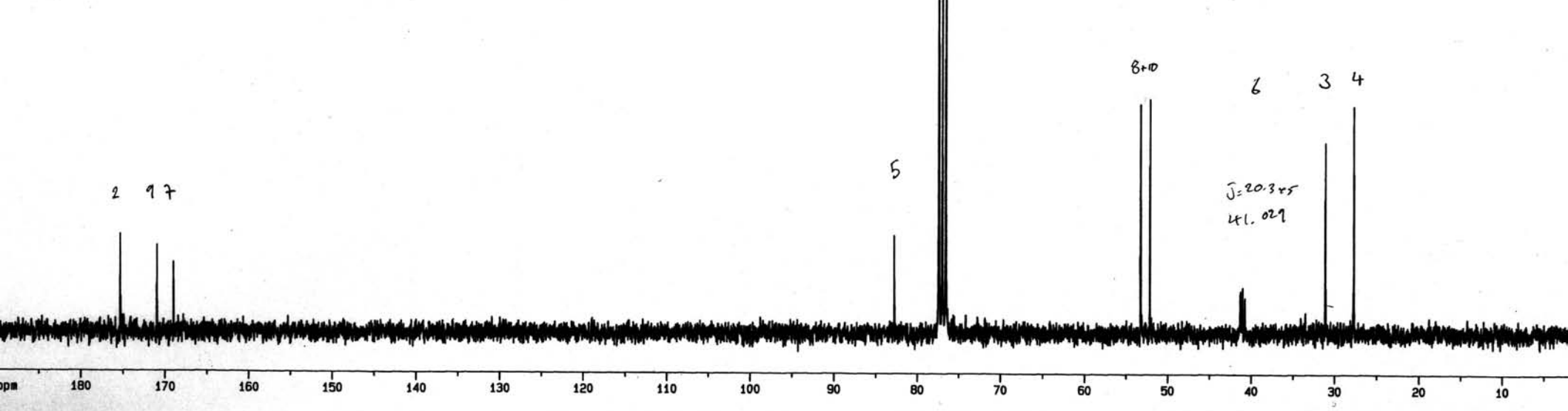
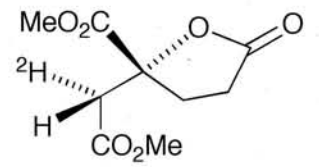
175.352
170.960
169.004

82.770
77.425
77.001
76.578

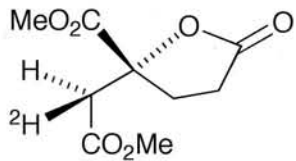
53.249
52.139

41.033

31.079
27.735

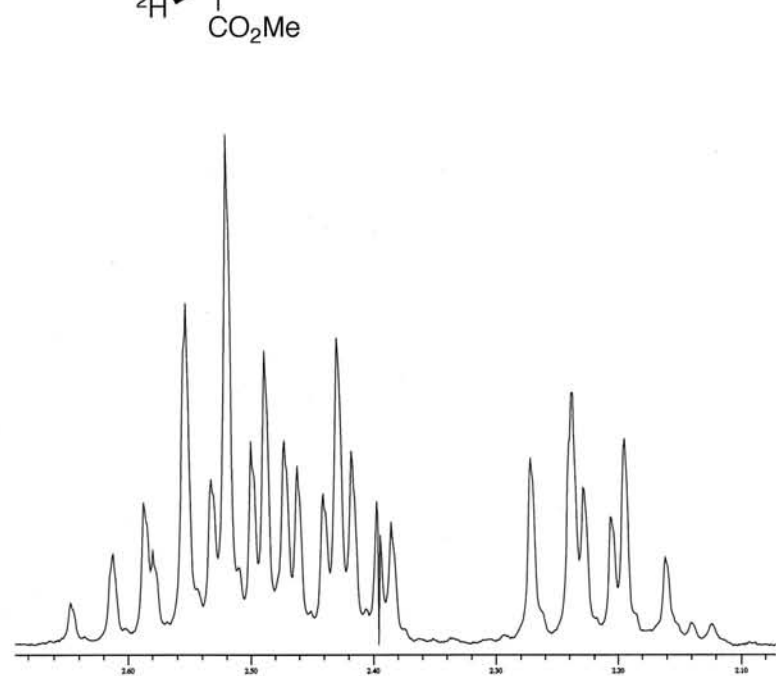


Hz



2142.27

1109.96
1106.92
1090.52
1074.33
1068.26
1067.49
896.43
776.40
766.41
760.09
756.57
750.35
747.11
742.25
738.99
732.49
729.17
725.64
719.53
681.89
671.79
668.88
661.97
658.77
453.53
336.03
330.24
323.19
316.16



2.6

2.4

2.2

Current Data Parameters

NAME at322b2
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010720
Time 9.20
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zg30
TD 32768
SOLVENT CDC13
NS 16
DS 2
SWH 4816.956 Hz
FIDRES 0.147002 Hz
AQ 3.4013684 sec
RG 362
DW 103.800 usec
DE 5.50 usec
TE 300.0 K
D1 1.00000000 sec

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

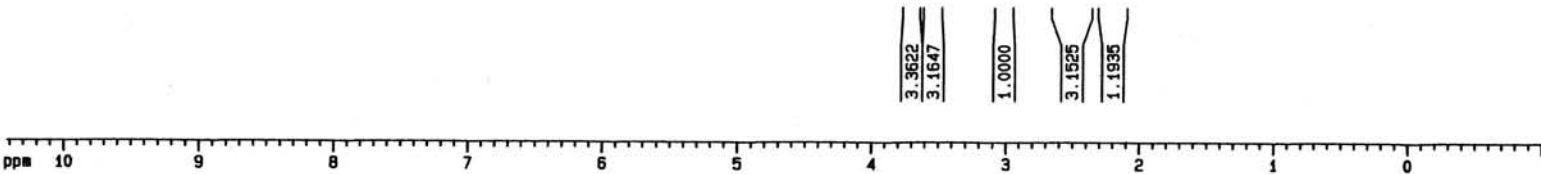
NUC1 1H
P1 10.50 usec
PL1 -6.00 dB
SF01 300.1307620 MHz

F2 - Processing parameters

SI 16384
SF 300.1300430 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 30.00 cm
F1P 11.000 ppm
F1 3301.43 Hz
F2P -1.000 ppm
F2 -300.13 Hz
PPMCM 0.40000 ppm/cm
HZCM 120.05202 Hz/cm



3.3622

3.1647

1.0000

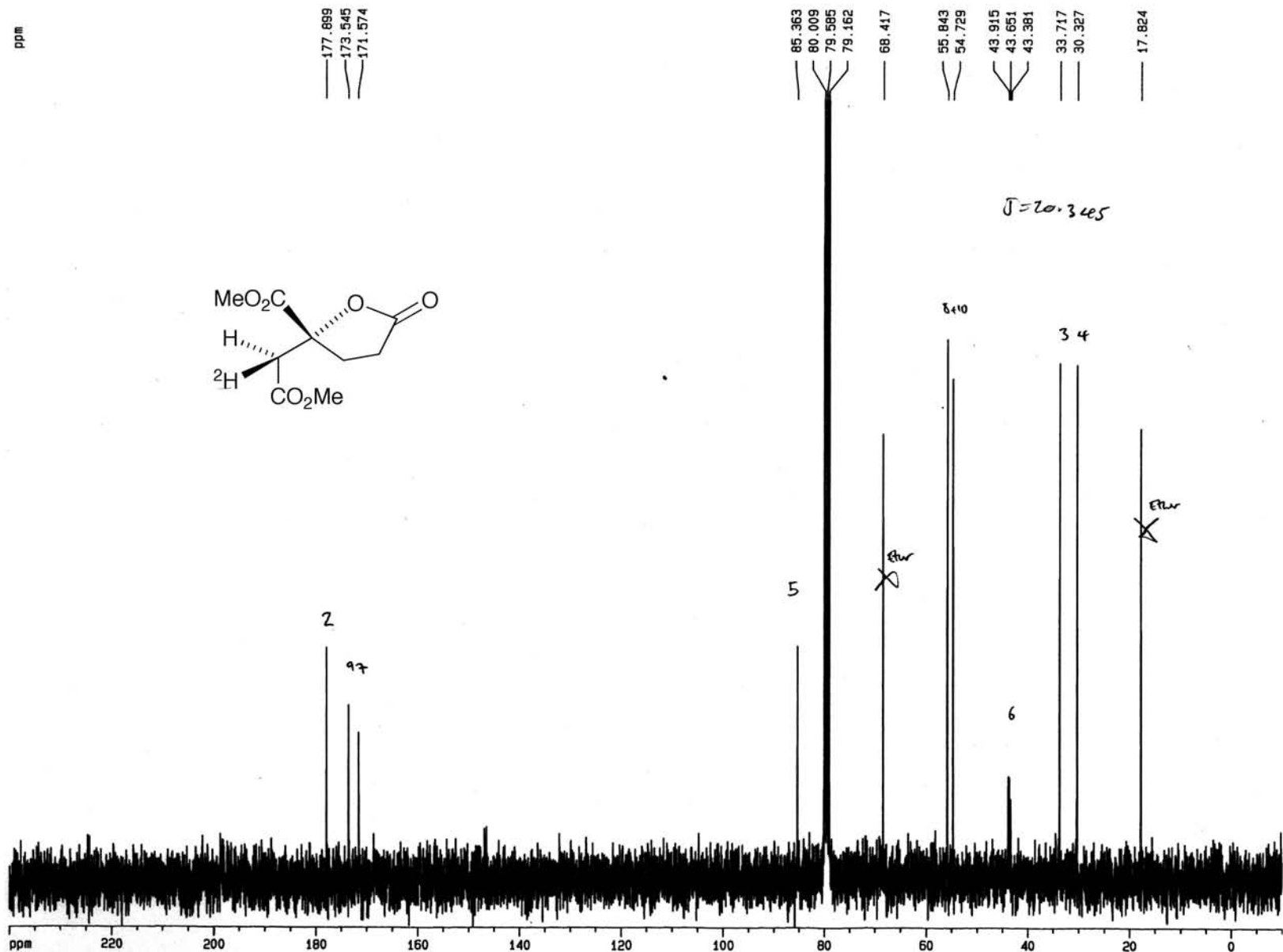
3.1525

1.1935

Integral

ppm 10 9 8 7 6 5 4 3 2 1 0

ppm



Current Data Parameters

NAME at322bc
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010719
Time 14.49
INSTRUM spect
PROBHD 5mm QUAD 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 343
DS 2
SMH 23809.523 Hz
FIDRES 0.363304 Hz
AQ 1.3763061 sec
RG 2896.3
DM 21.000 usec
DE 5.50 usec
TE 300.0 K
D1 3.0000000 sec
D11 0.0300000 sec
D12 0.0000200 sec

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

NUC1 13C
P1 6.00 usec
PL1 -3.00 dB
SF01 75.4772501 MHz

----- CHANNEL f2 -----

CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 300.1312005 MHz

F2 - Processing parameters

SI 32768
SF 75.4675571 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 30.00 cm
F1P 240.000 ppm
F1 18112.21 Hz
F2P -10.000 ppm
F2 -754.68 Hz
PPMCM 8.33333 ppm/cm
HZCM 628.89636 Hz/cm