

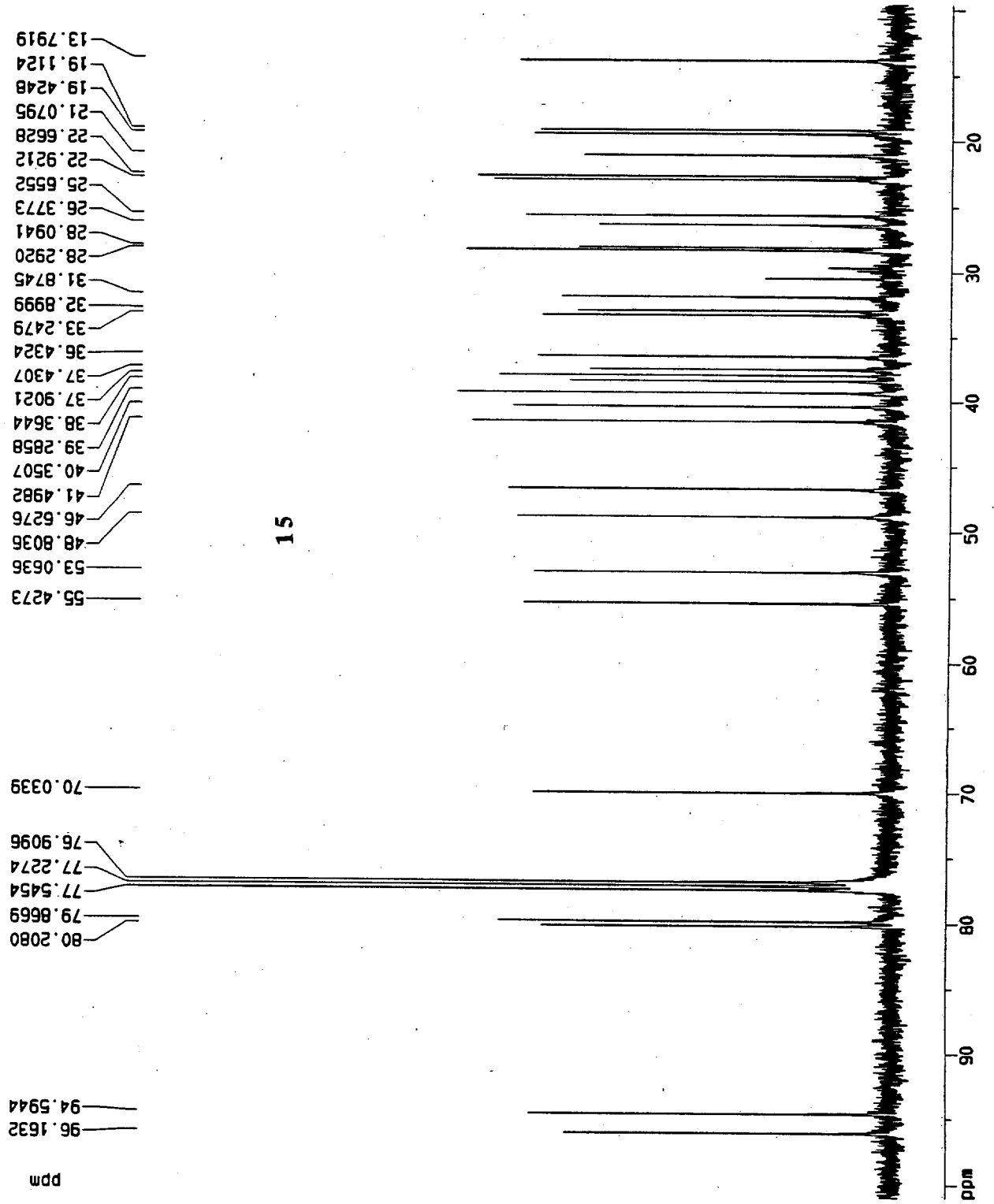
twj 03-142

Current Data Parameters
 NAME twj03-142
 EXPNO 2
 PROCNO 1

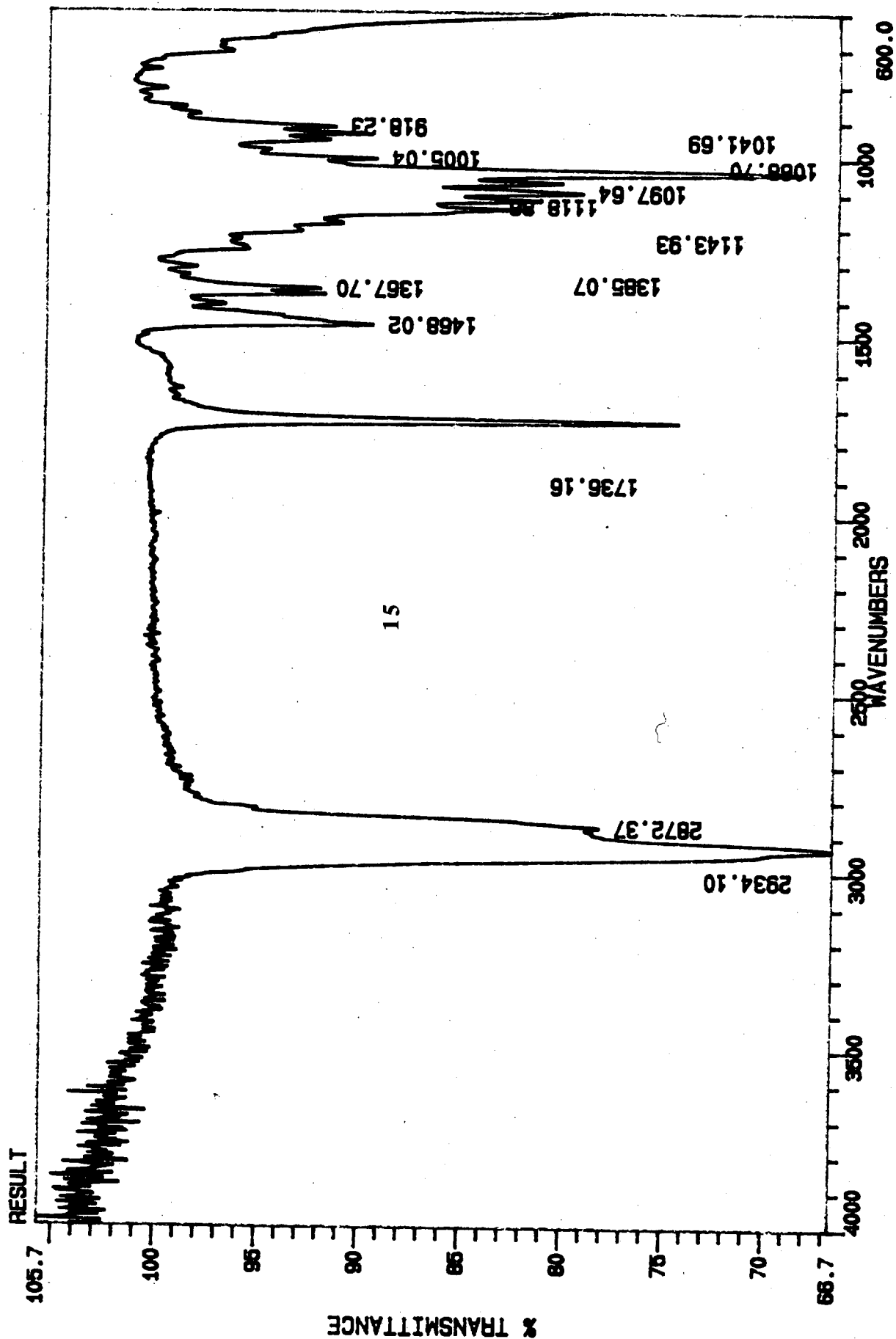
F2 - Acquisition Parameters
 Date_ 991229
 Time 12.05
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 258
 DS 0
 SMH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 O1 2.00000000 sec
 P1 5.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127530 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 100.981 ppm
 F1 10159.96 Hz
 F2P 9.562 ppm
 F2 962.02 Hz
 PPNCM 4.57096 ppm/cm
 HZCM 459.89700 Hz/cm



15



twj 03-138b

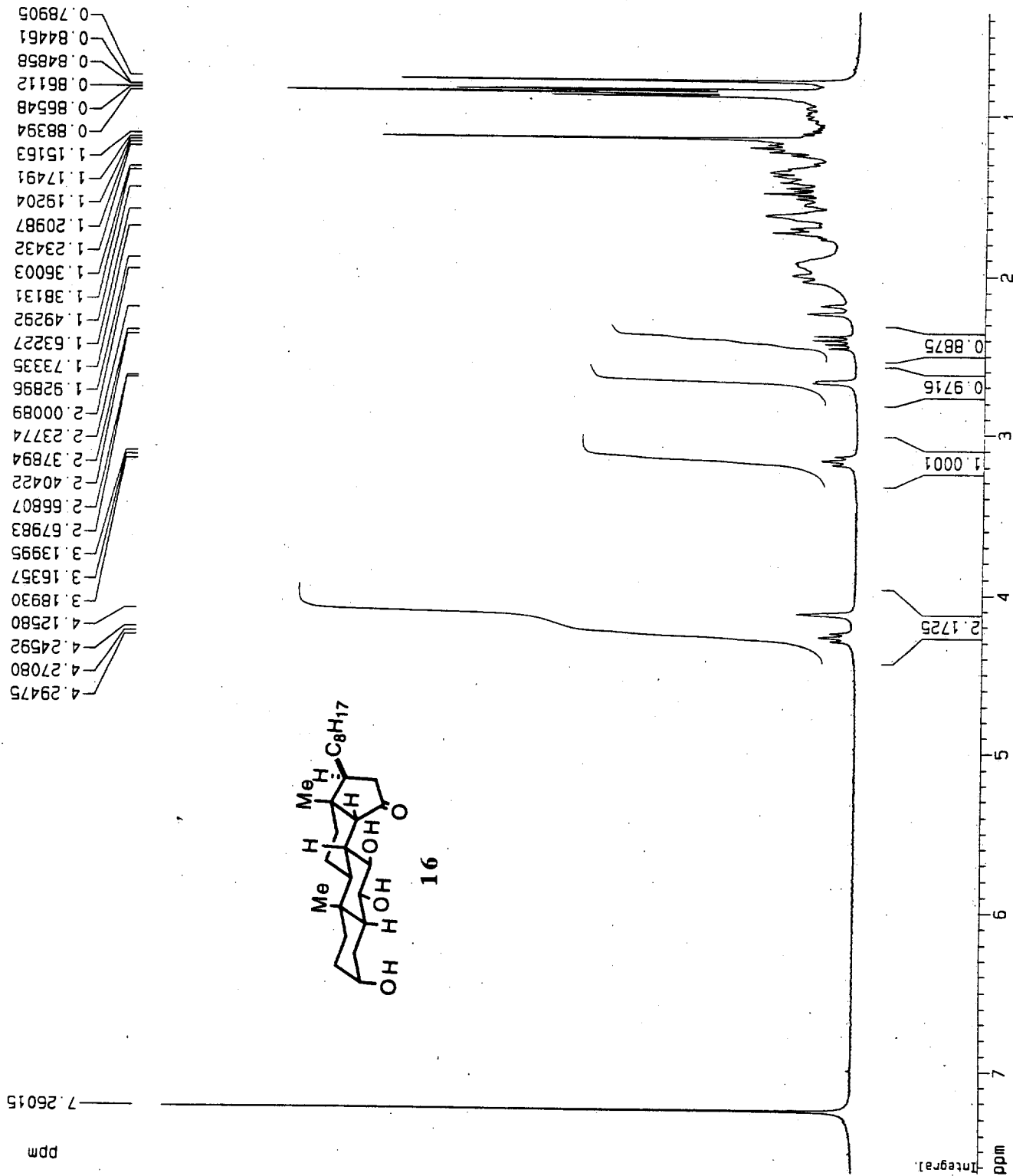
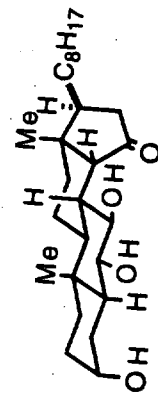
Current Data Parameters
 NAME twj03-138b
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 981216
 Time 16.15
 INSTRUM arx400
 PRDBHD 5 mm QNP 1H
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 2048
 DW 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SF01 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300173 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 7.639 ppm
 F1 3056.69 Hz
 F2P 0.347 ppm
 F2 138.88 Hz
 PPMCM 0.36461 ppm/cm
 HZCM 145.89050 Hz/cm

4.29475
 4.27080
 4.24592
 4.12580
 3.18930
 3.16357
 3.13995
 2.67983
 2.66807
 2.40422
 2.37894
 2.23774
 2.00089
 1.92896
 1.73335
 1.63227
 1.49292
 1.38131
 1.36003
 1.23432
 1.20987
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 1.17491
 1.15163
 0.88394
 0.86548
 0.86112
 0.84858
 0.84461
 0.78905



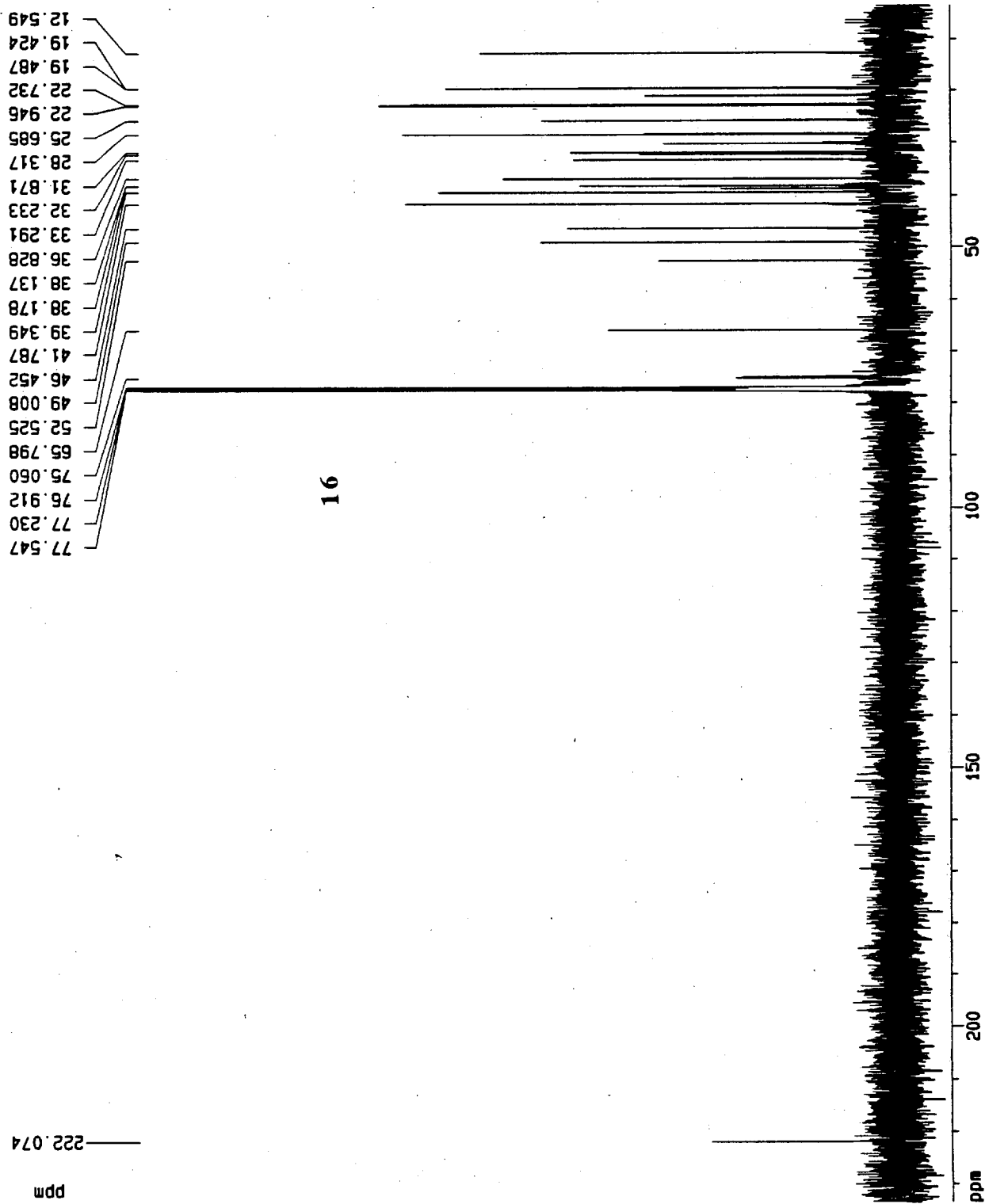
twj 03-143

Current Data Parameters
 NAME twj03-143
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 981229
 Time 17.43
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 723
 DS 0
 SWH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1795980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 O12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 O1 2.0000000 sec
 P1 6.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 O11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127509 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 233.490 ppm
 F1 23492.10 Hz
 F2P 3.394 ppm
 F2 341.53 Hz
 PPMCM 11.50479 ppm/cm
 HZCM 1157.52844 Hz/cm



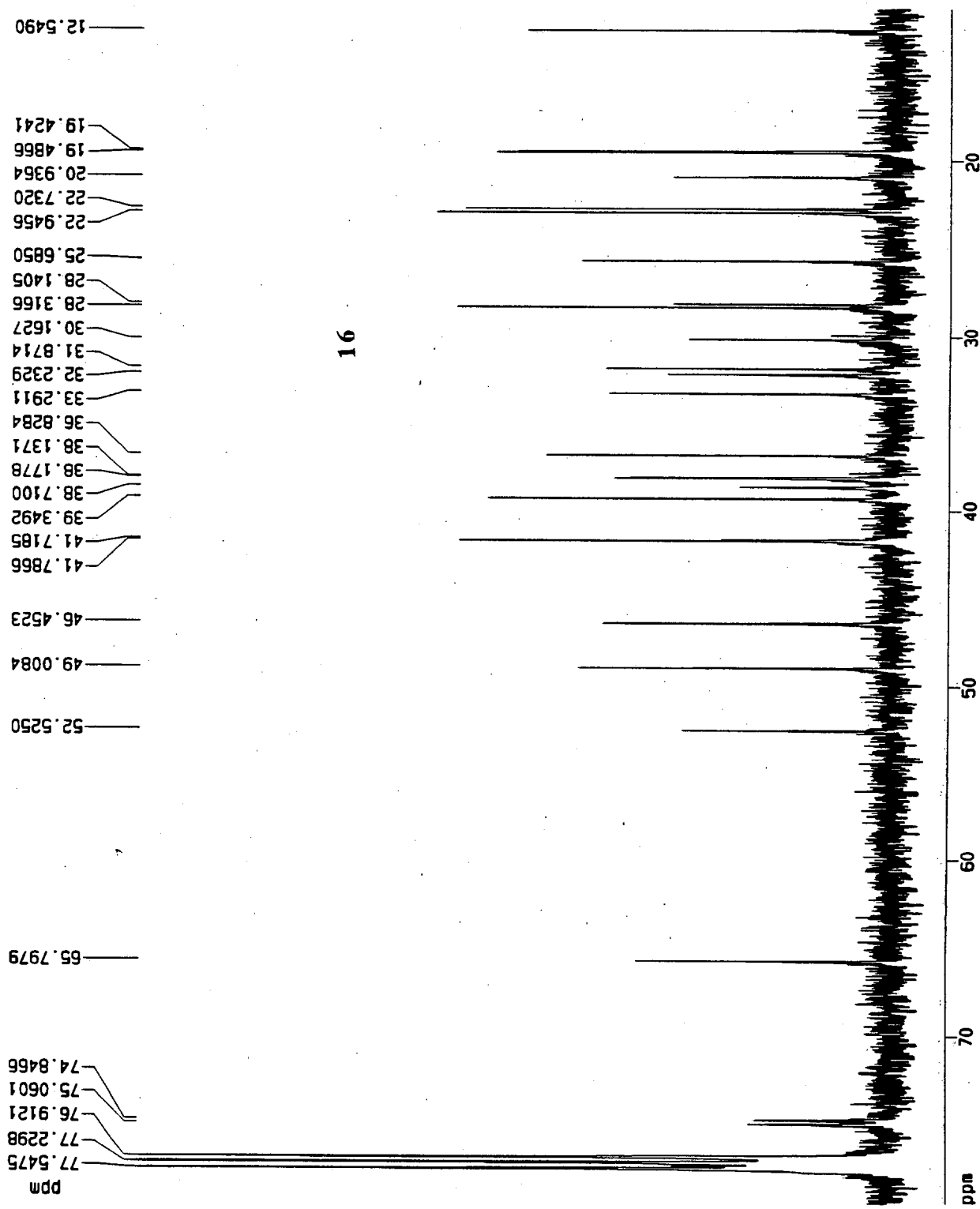
twj 03-143

Current Data Parameters
 NAME twj03-143
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 981229
 Time 17.43
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 723
 DS 0
 SMH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 D1 2.00000000 sec
 P1 6.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

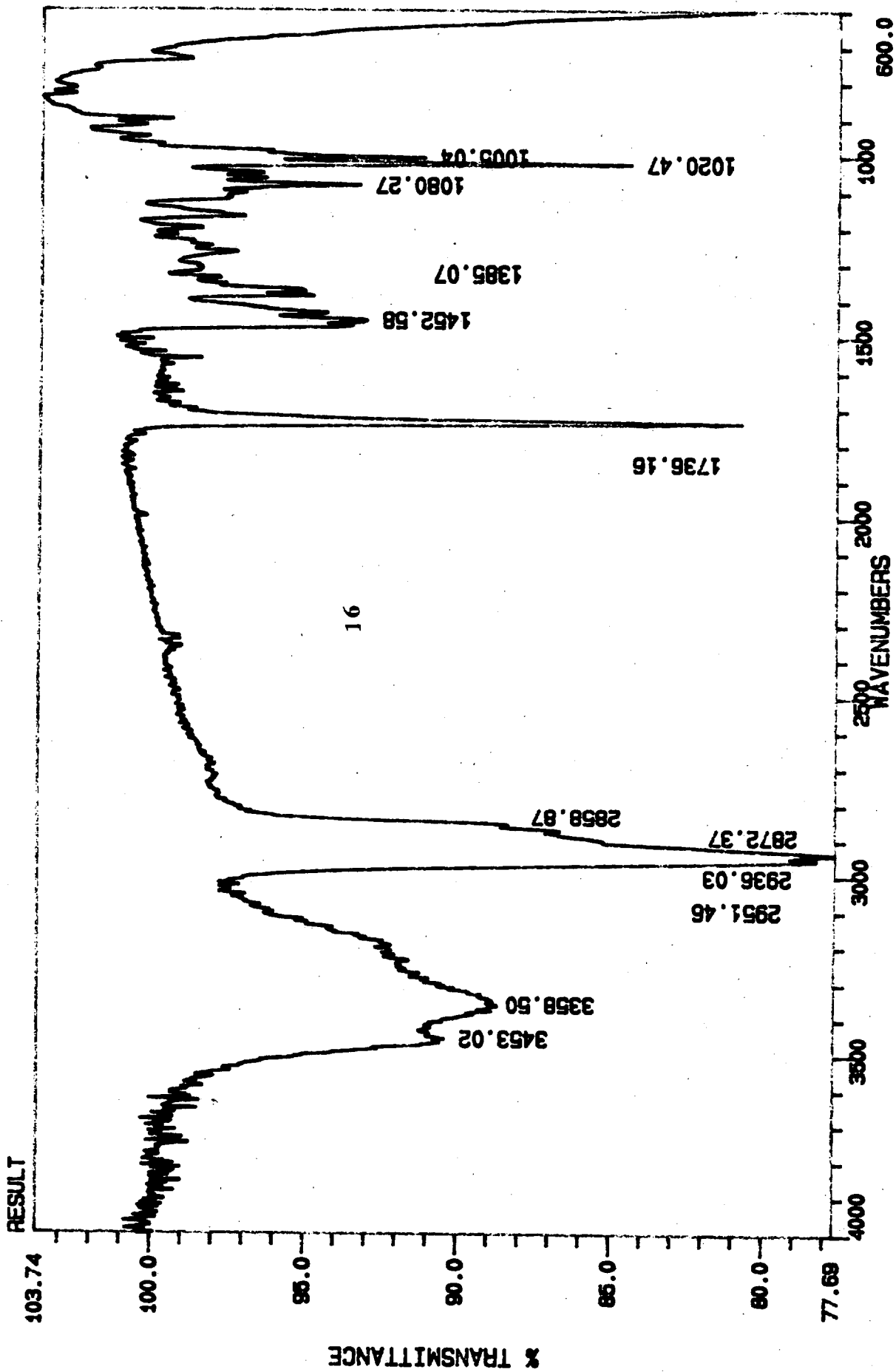
F2 - Processing parameters
 SI 65536
 SF 100.6127509 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 79.475 ppm
 F1 7996.19 Hz
 F2P 11.330 ppm
 F2 1139.97 Hz
 PPMCM 3.40723 ppm/cm
 HZCM 342.81116 Hz/cm



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wj 03-143



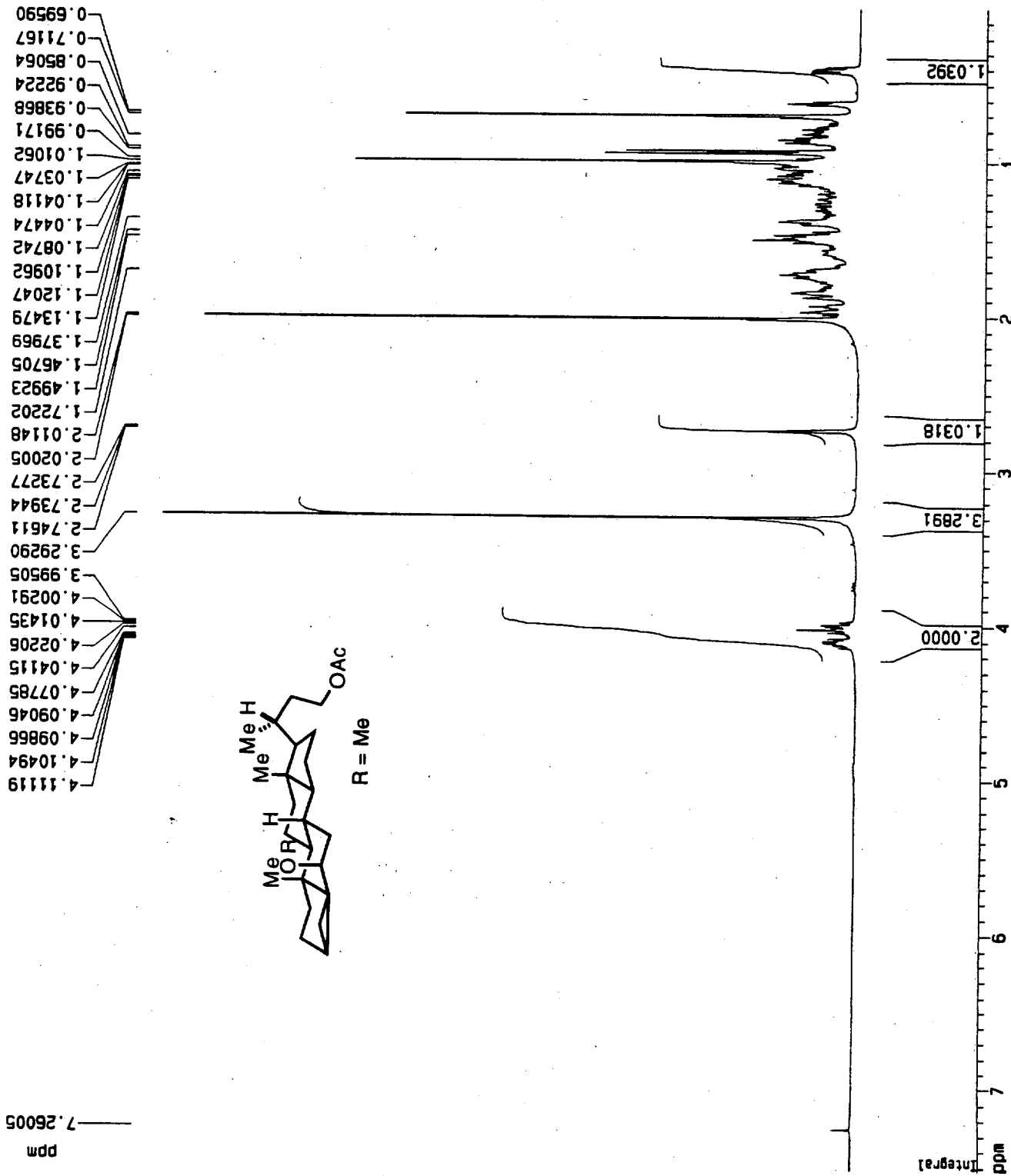
twj 03-169

Current Data Parameters
 NAME twj03-169
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990302
 Time 12.33
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TO 65536
 SOLVENT CDCl3
 NS 8
 DS 0
 SWH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 90
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SFO1 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300173 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

10 NMR plot parameters
 CX 20.00 cm
 FIP 7.520 ppm
 F1 3009.07 Hz
 F2P 0.006 ppm
 F2 2.37 Hz
 PPMCM 0.37572 ppm/cm
 HZCM 150.33514 Hz/cm



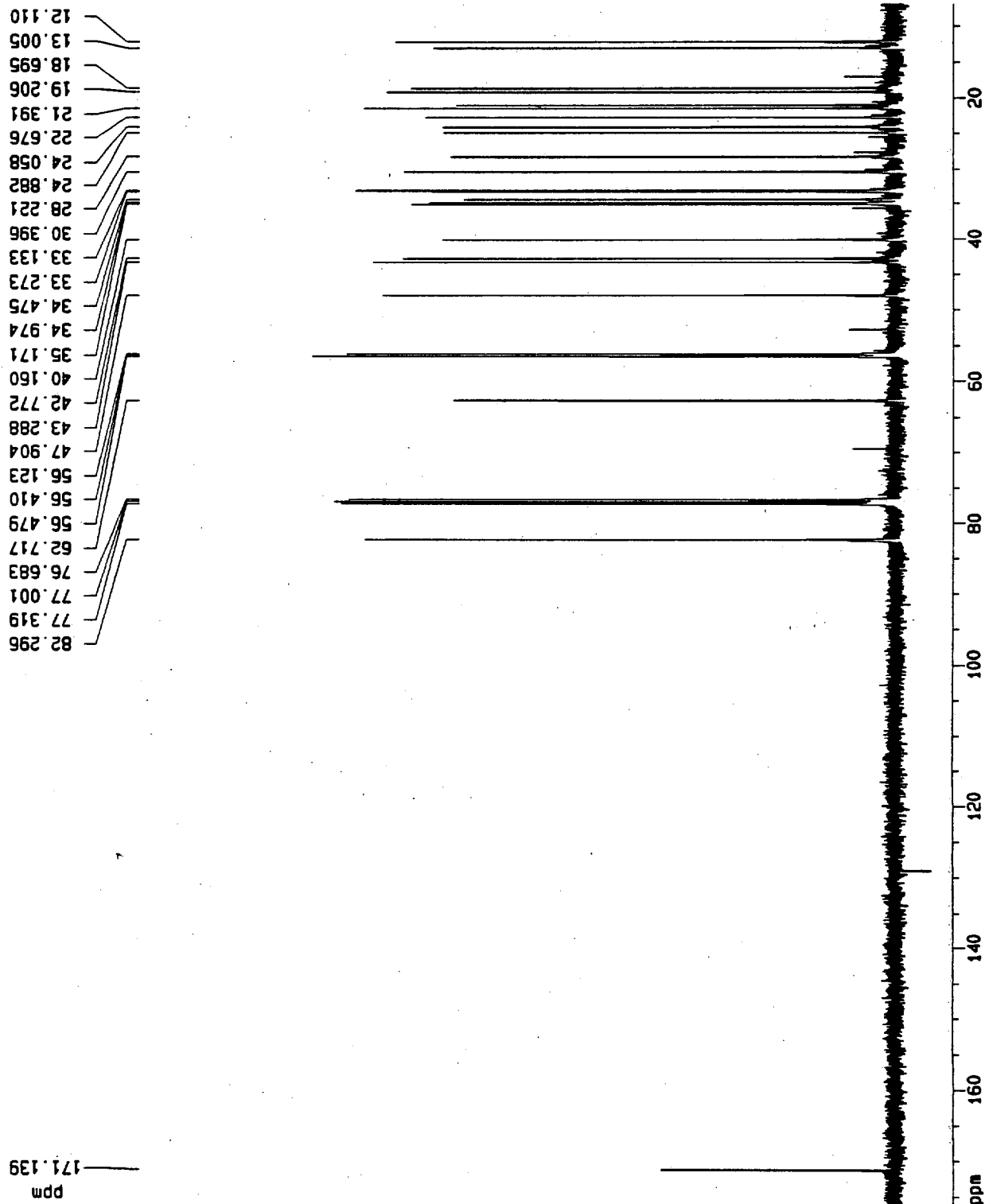
twj 03-169

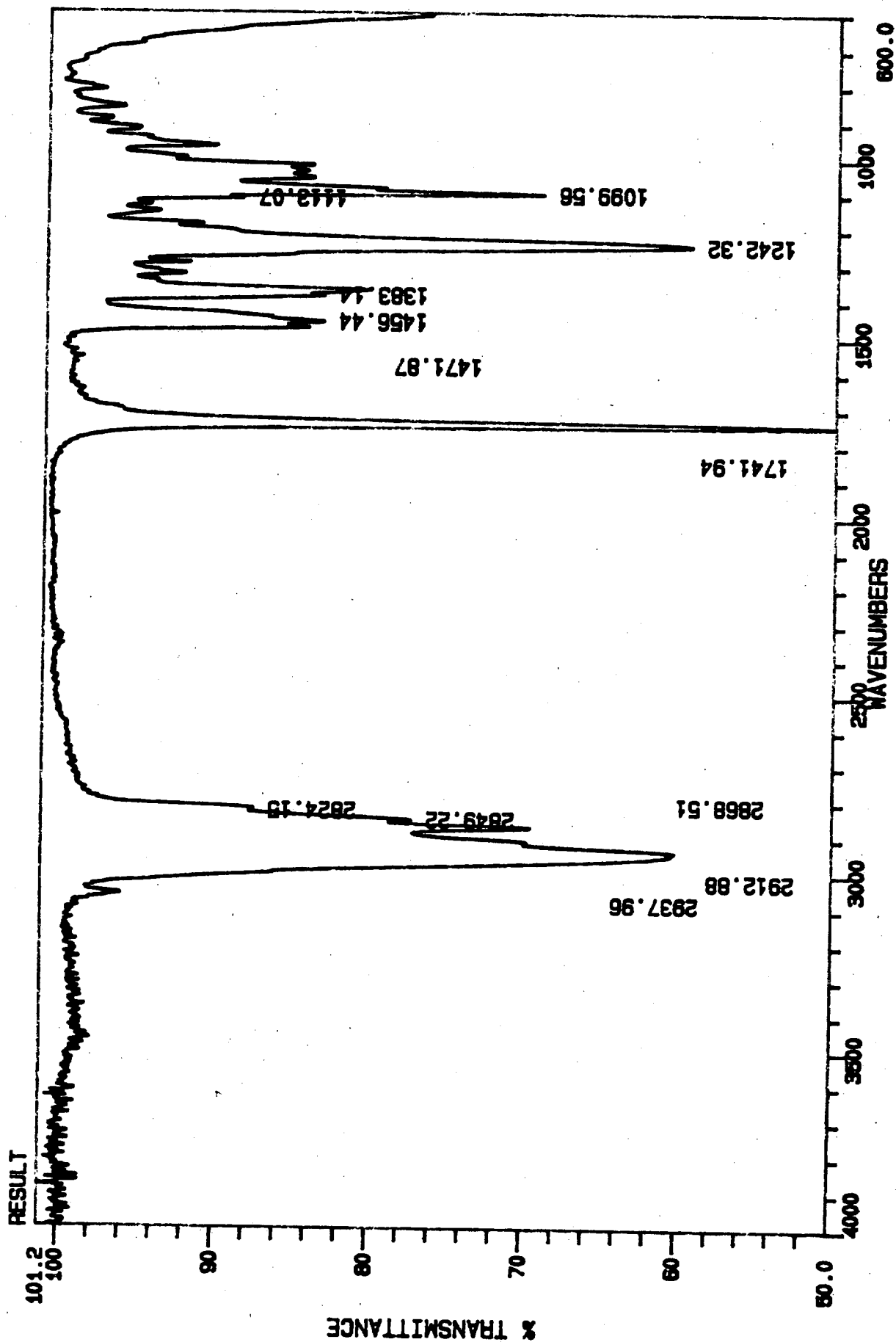
Current Data Parameters
 NAME twj03-169
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990302
 Time 12.43
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 240
 DS 0
 SWH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 D1 2.00000000 sec
 P1 6.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.612778 MHz
 WDM EM
 SS8 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 176.050 ppm
 F1 17712.84 Hz
 F2P 6.926 ppm
 F2 696.86 Hz
 PPHCM 8.45617 ppm/cm
 HZCM 650.79926 Hz/cm





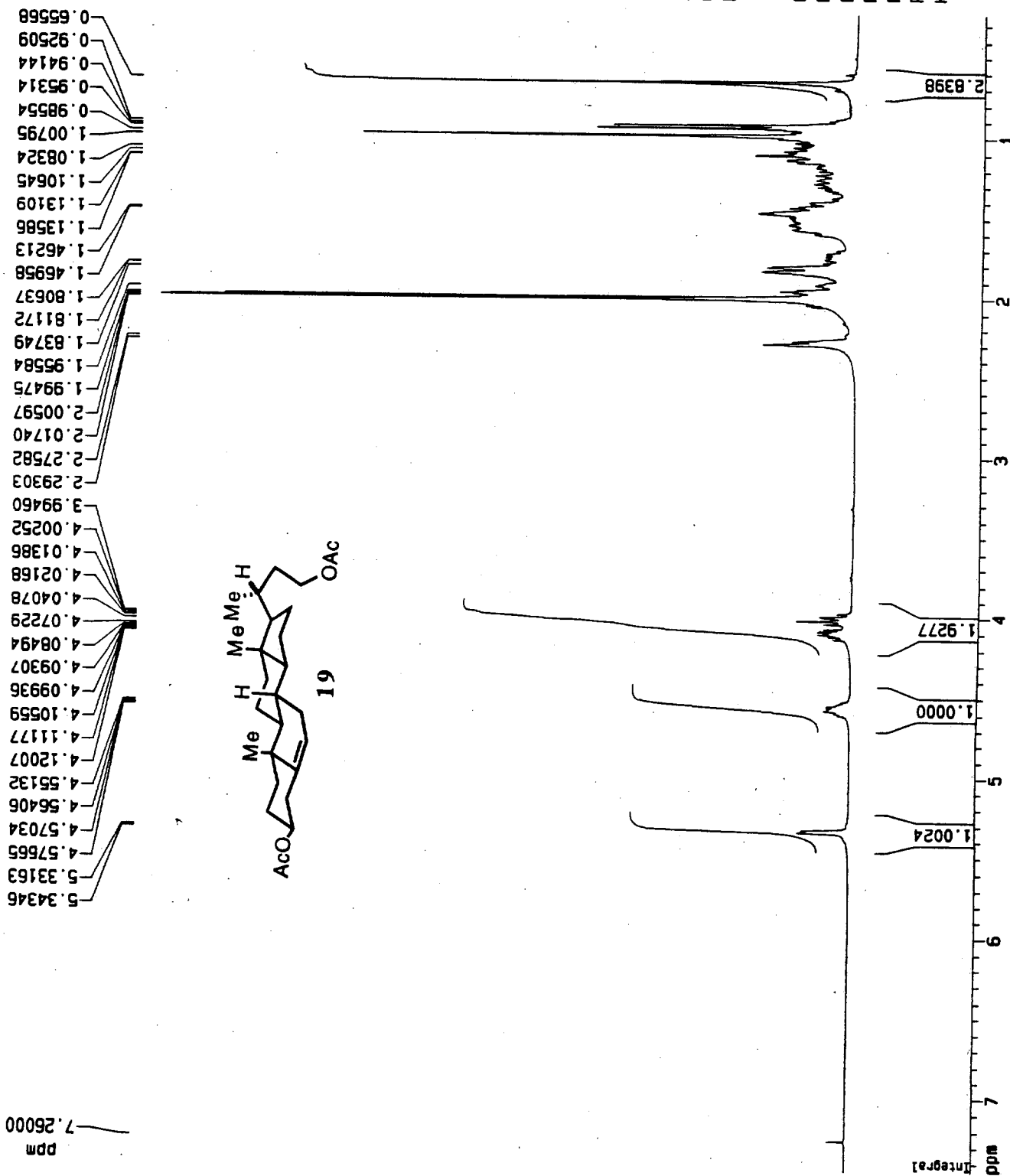
twj 03-170

Current Data Parameters
 NAME twj03-170
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990304
 Time 13.02
 INSTRUM apx400
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 8
 DS 0
 SWH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 90
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SF01 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300172 MHz
 WDW EM
 SS8 0
 LB 0.30 Hz
 GB 0
 PC 1.00

10 NMR plot parameters
 CX 20.00 cm
 F1P 7.449 ppm
 F1 2980.72 Hz
 F2P 0.229 ppm
 F2 91.75 Hz
 PPMCH 0.36100 ppm/cm
 HZCM 144.44850 Hz/cm



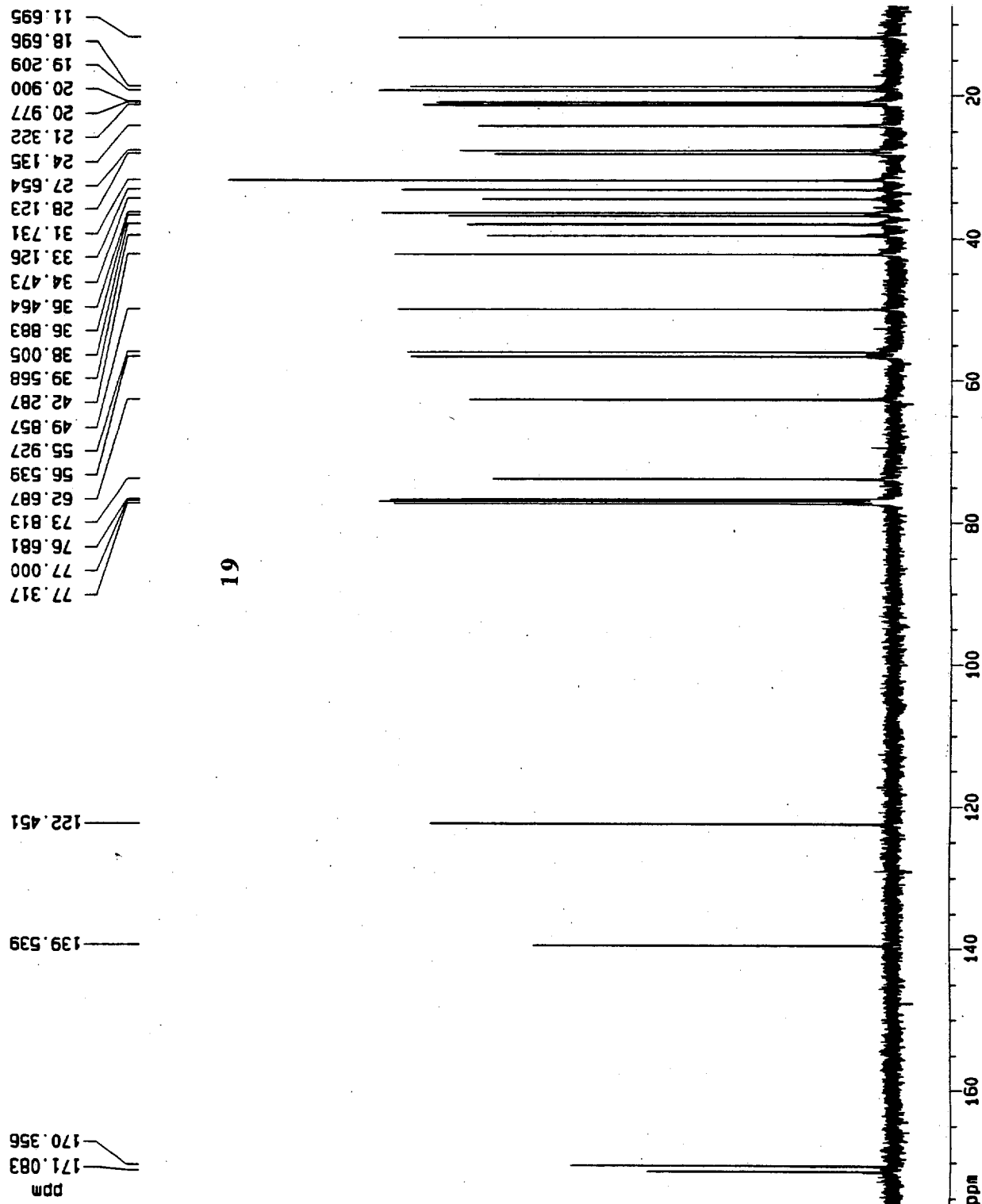
twj 03-170

Current Data Parameters
 NAME twj03-170
 EXPNO 2
 PROCNO 1

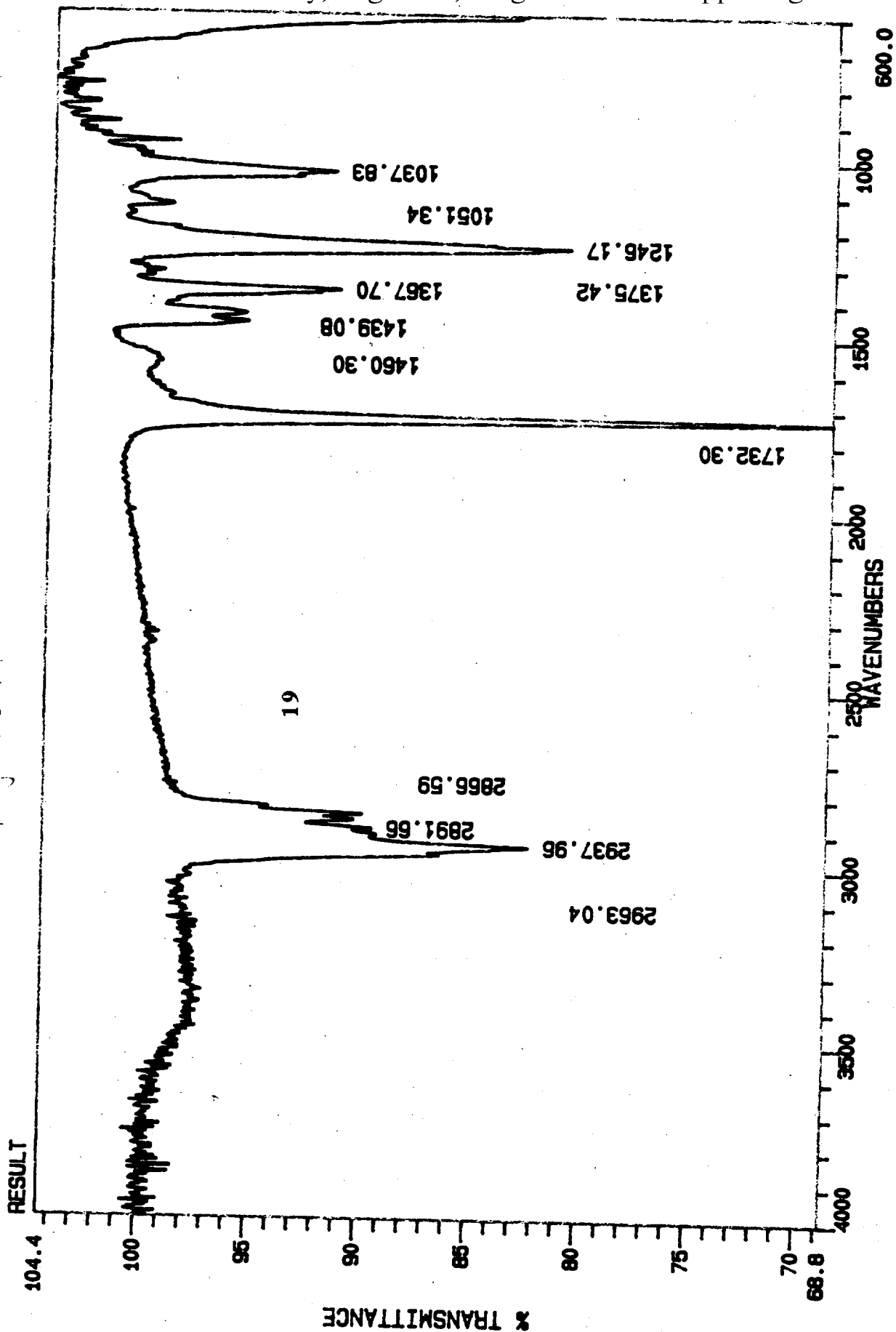
F2 - Acquisition Parameters
 Date_ 990304
 Time 13.10
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgdc30
 TD 65536
 SOLVENT CDCl3
 NS 187
 DS 0
 SMH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 D1 2.0000000 sec
 P1 6.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127795 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

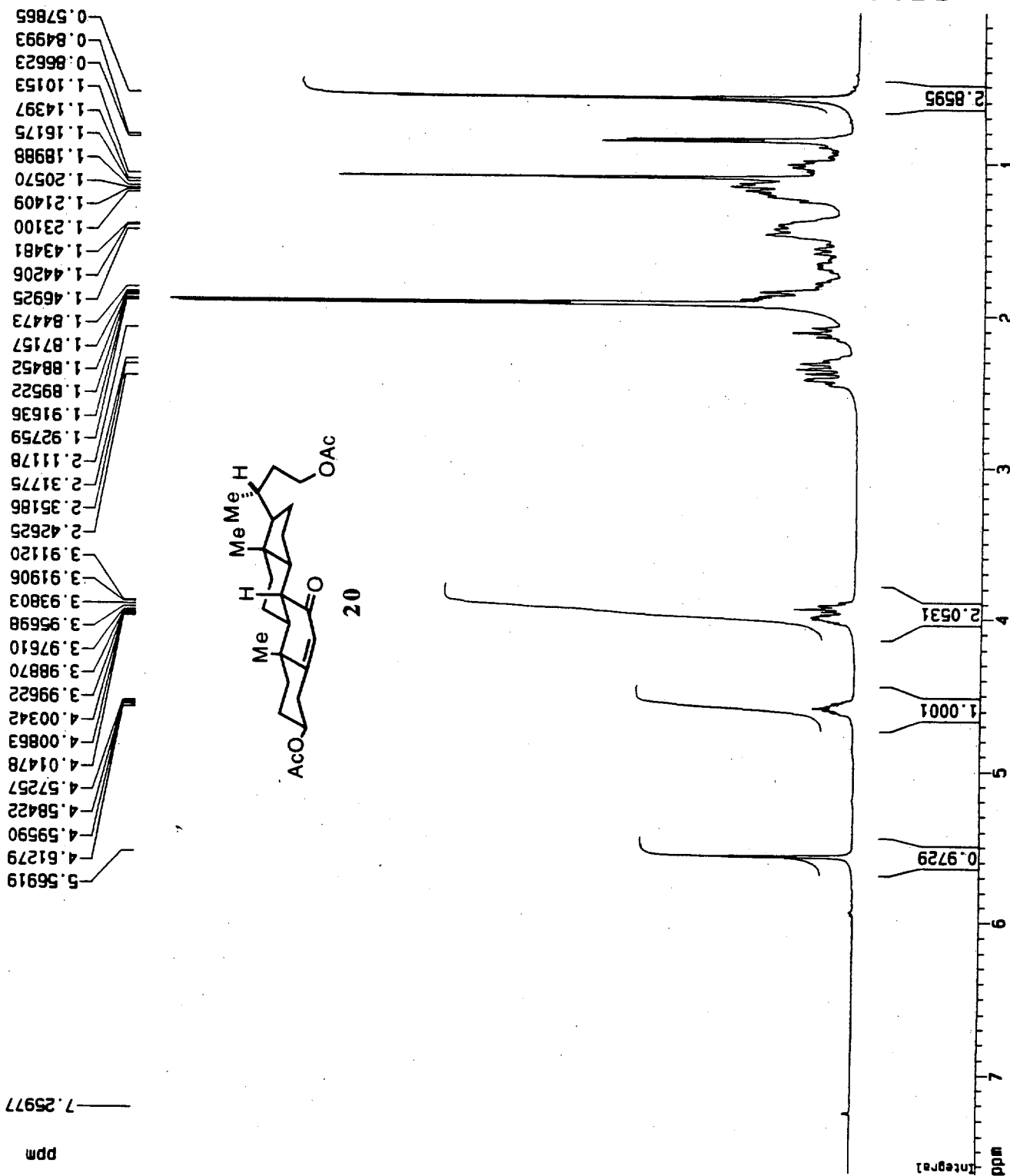
1D NMR plot parameters
 CX 20.00 cm
 FIP 175.766 ppm
 F1 17684.28 Hz
 F2 7.250 ppm
 PPMCM 8.42580 ppm/cm
 HZCM 647.74347 Hz/cm



TWJ 03-170



twj 03-173



Current Data Parameters
 NAME twj03-173
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters

Date_ 990308
 Time 13.41
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TO 65536
 SOLVENT CDCl3
 NS 8
 DS 0
 SMH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 32
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SFO1 400.132408 MHz
 NUCLEUS 1H

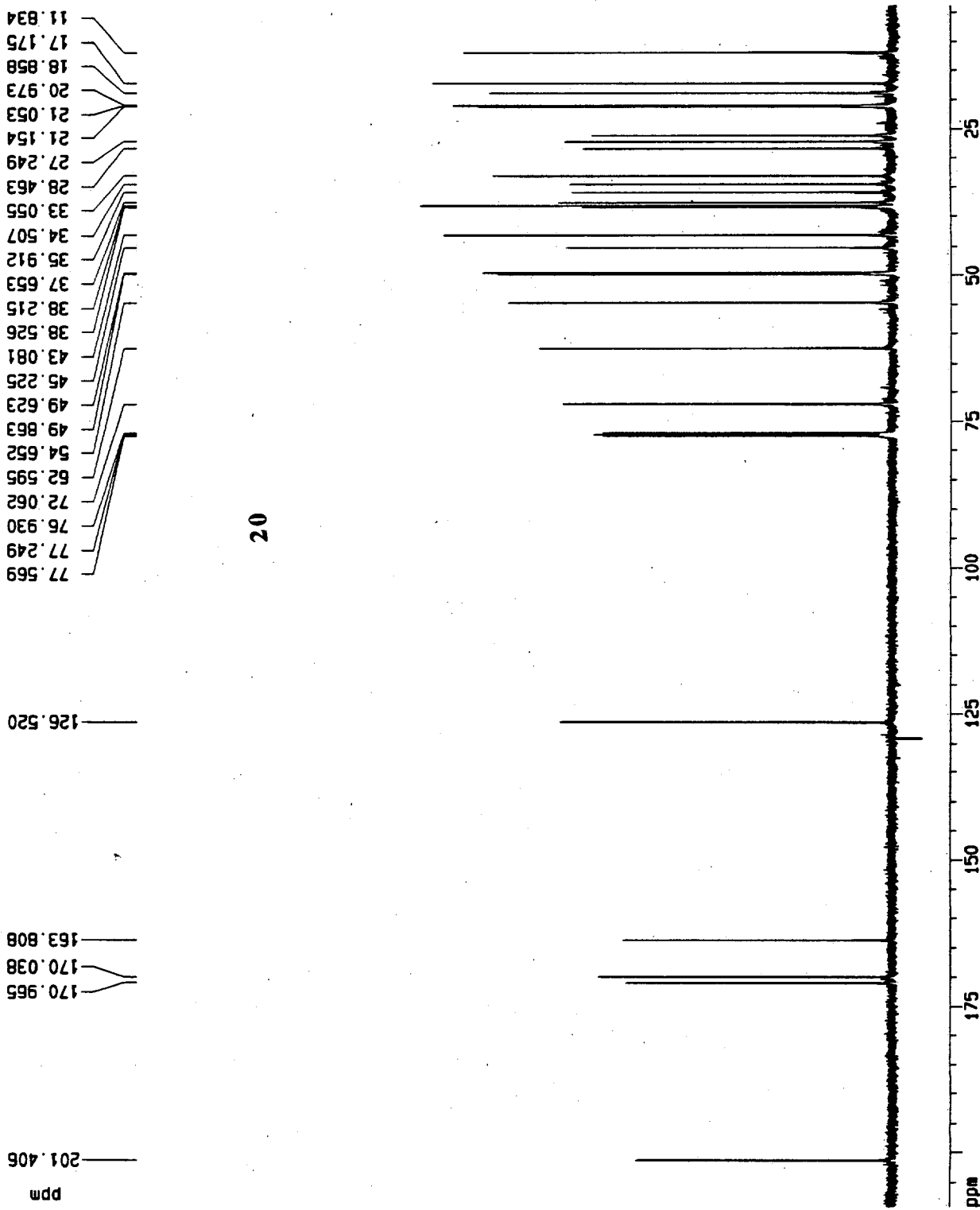
F2 - Processing parameters

SI 65536
 SF 400.1300165 MHz
 HOW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

CX 20.00 cm
 FIP 7.656 ppm
 F1 3063.42 Hz
 F2P 0.007 ppm
 F2 2.83 Hz
 PPMCM 0.38245 ppm/cm
 HZCM 153.02986 Hz/cm

twj 03-173



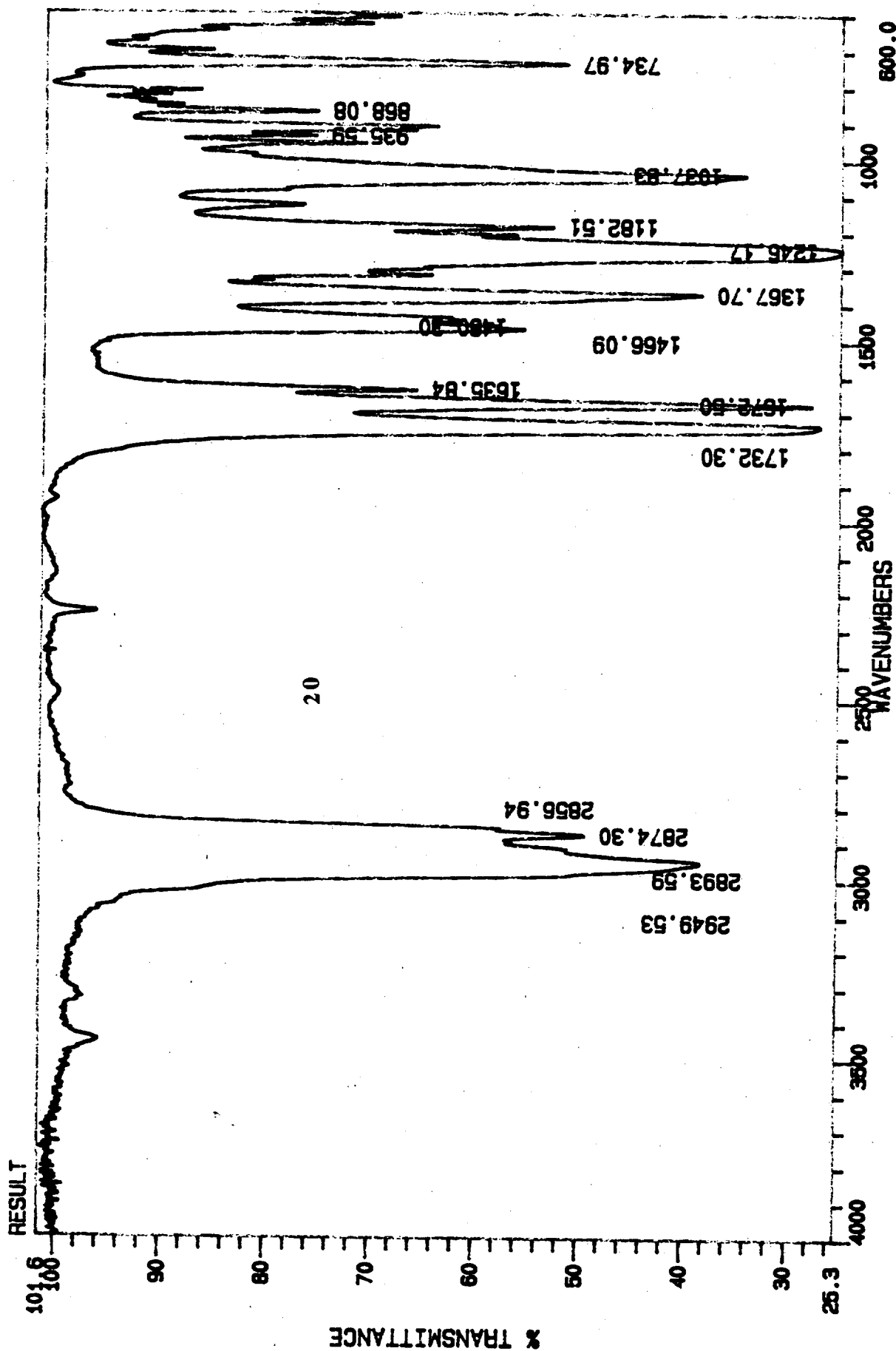
Current Data Parameters
 NAME twj03-173
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990308
 Time 13.54
 INSTRUM ark400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TO 65536
 SOLVENT COC13
 NS 218
 DS 0
 SWH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 D1 2.0000000 sec
 P1 6.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127710 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 209.286 ppm
 F1 21056.85 Hz
 F2 3.898 ppm
 F2 392.15 Hz
 PPNCH 10.26842 ppm/cm
 HZCM 1033.23511 Hz/cm

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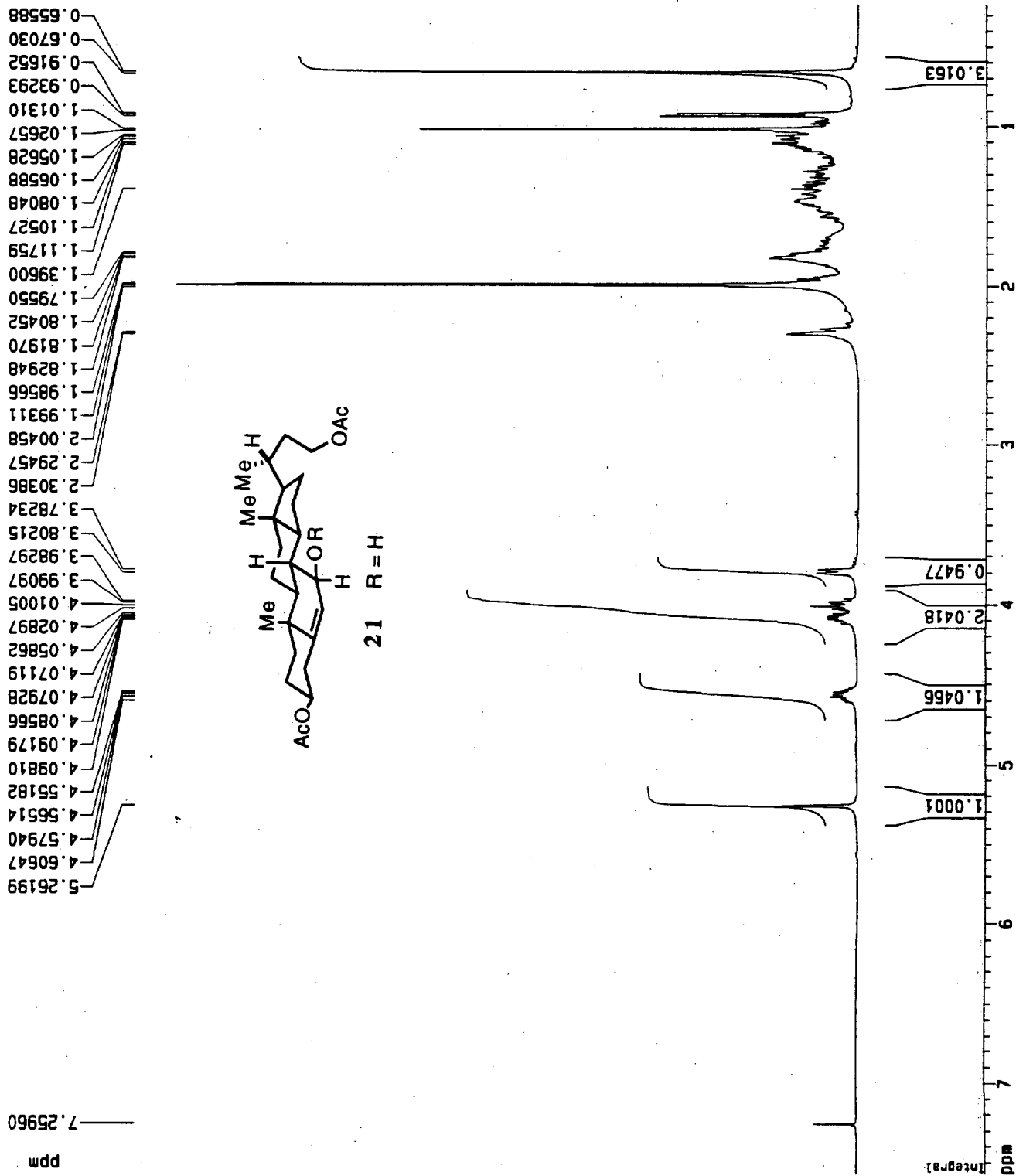
twj 03-175

Current Data Parameters
 NAME twj03-175
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990310
 Time 14.20
 INSTRUM apx400
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 0
 SMH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 90
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SF01 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300173 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 7.574 ppm
 F1 3030.43 Hz
 F2P 0.235 ppm
 F2 94.08 Hz
 PPMCM 0.36692 ppm/cm
 HZCM 146.81758 Hz/cm



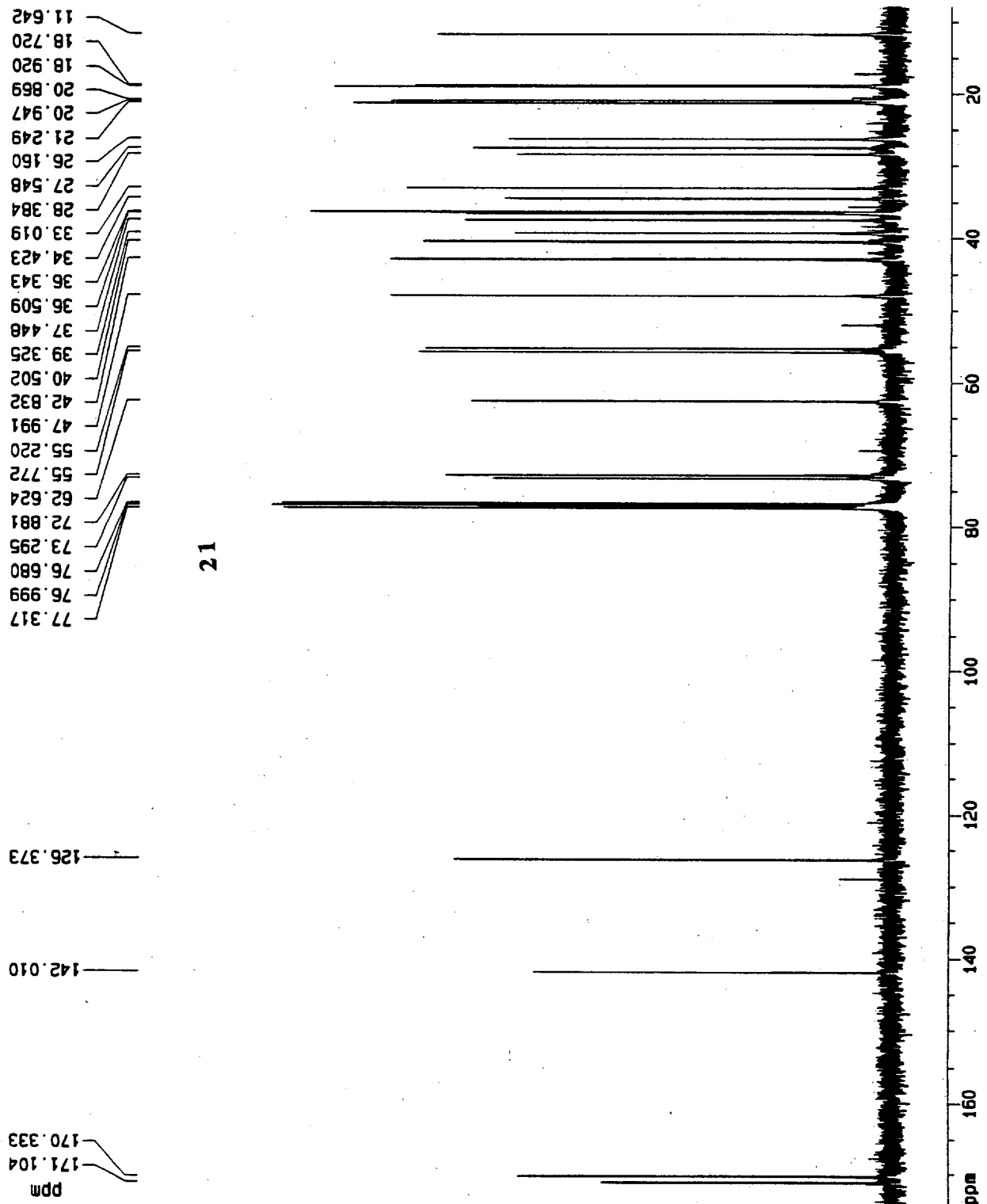
twj 03-175

Current Data Parameters
 NAME twj03-175
 EXPNO 2
 PROCNO 1

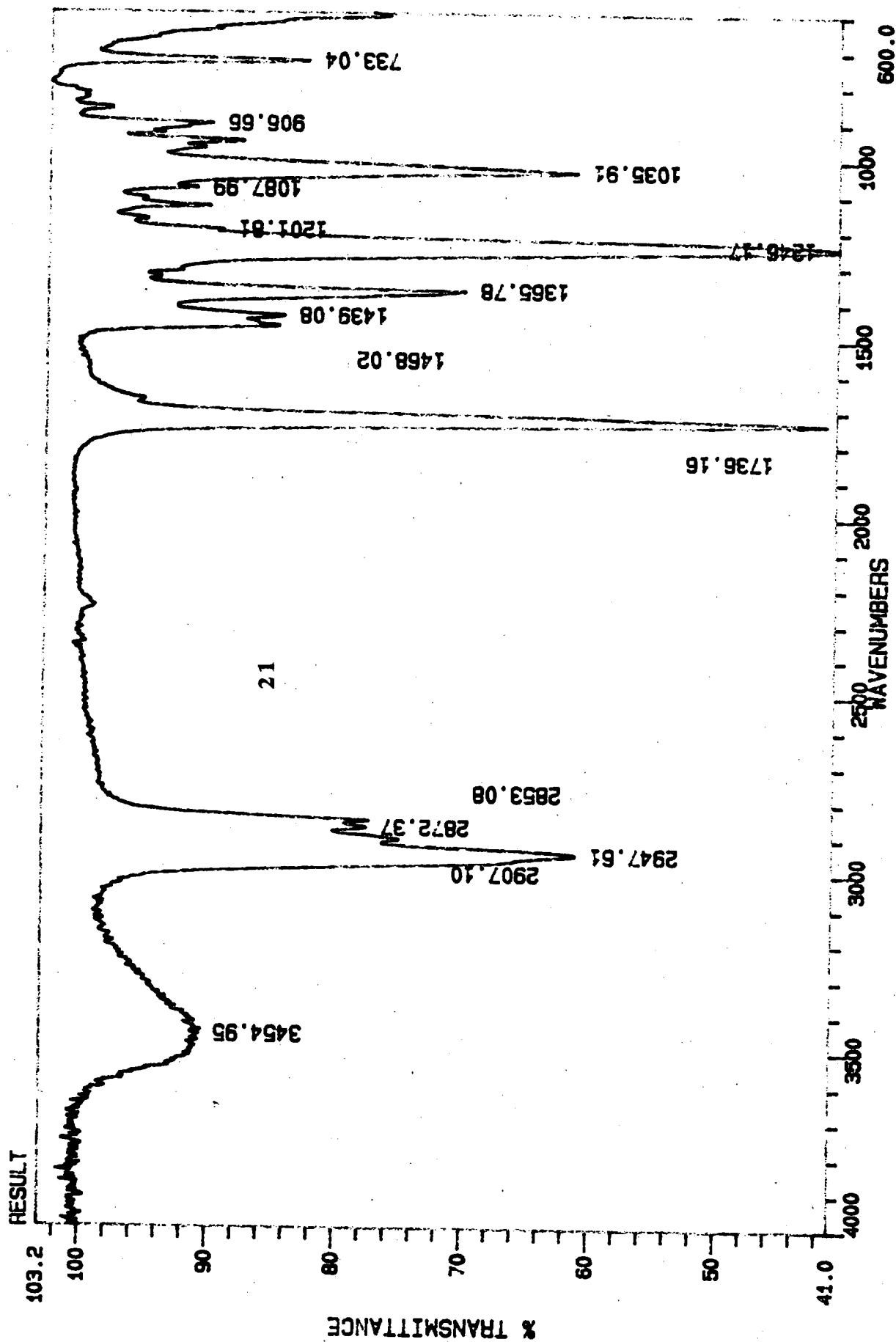
F2 - Acquisition Parameters
 Date_ 990310
 Time 14.28
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 162
 DS 0
 SMH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 O1 2.0000000 sec
 P1 6.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127829 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 173.939 ppm
 F1 17500.54 Hz
 F2P 7.858 ppm
 F2 790.64 Hz
 PPMCM 8.30406 ppm/cm
 SCA 40.484 Hz/cm



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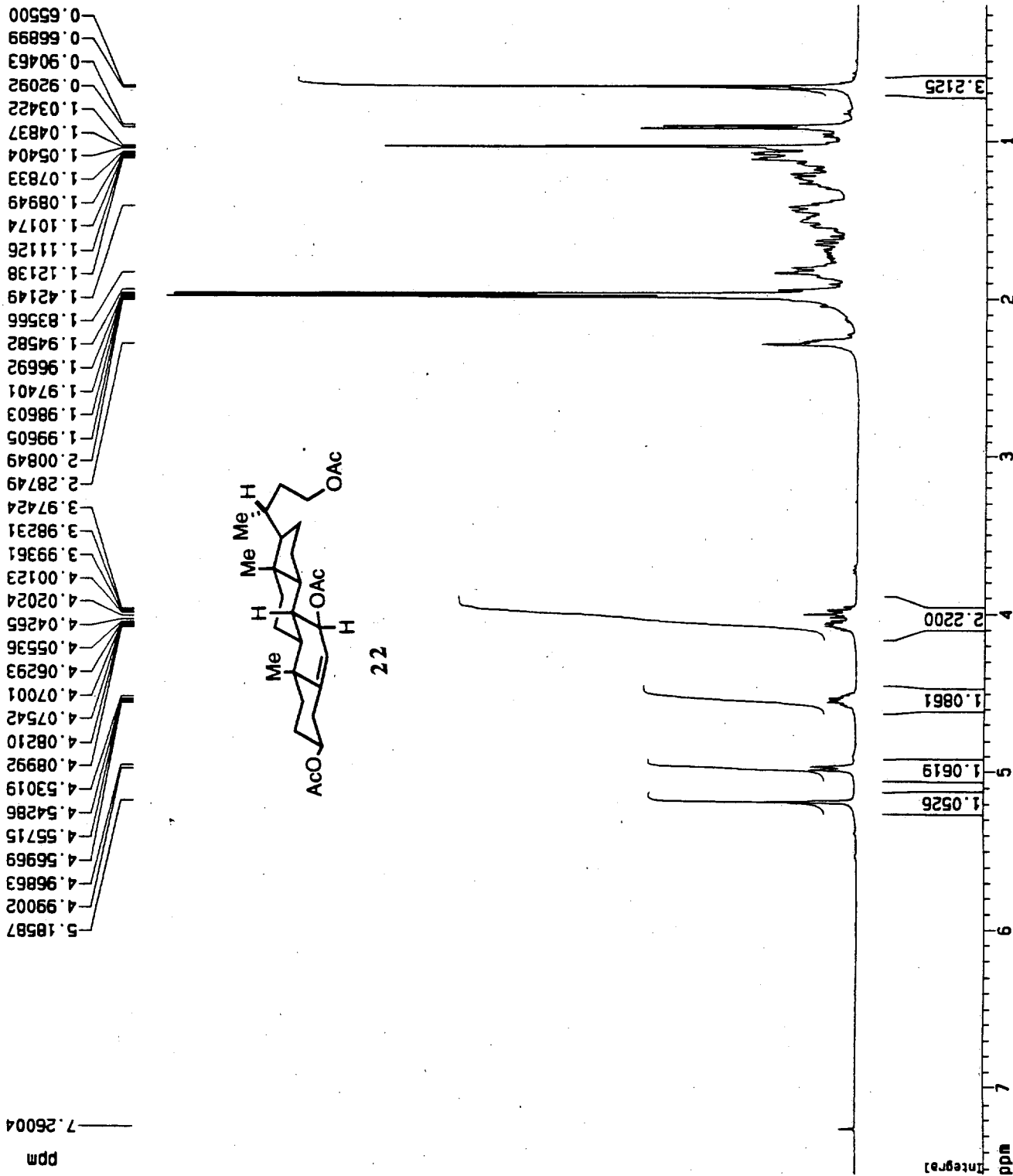
twj 03-177

Current Data Parameters
 NAME twj03-177
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990312
 Time 14.26
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPRDG zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 0
 SWH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 90
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 O1 2.00000000 sec
 P1 8.25 usec
 SF01 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300172 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 7.535 ppm
 F1 3014.84 Hz
 F2P 0.140 ppm
 F2 55.82 Hz
 PPMCH 0.36976 ppm/cm
 HZCM 147.95094 Hz/cm



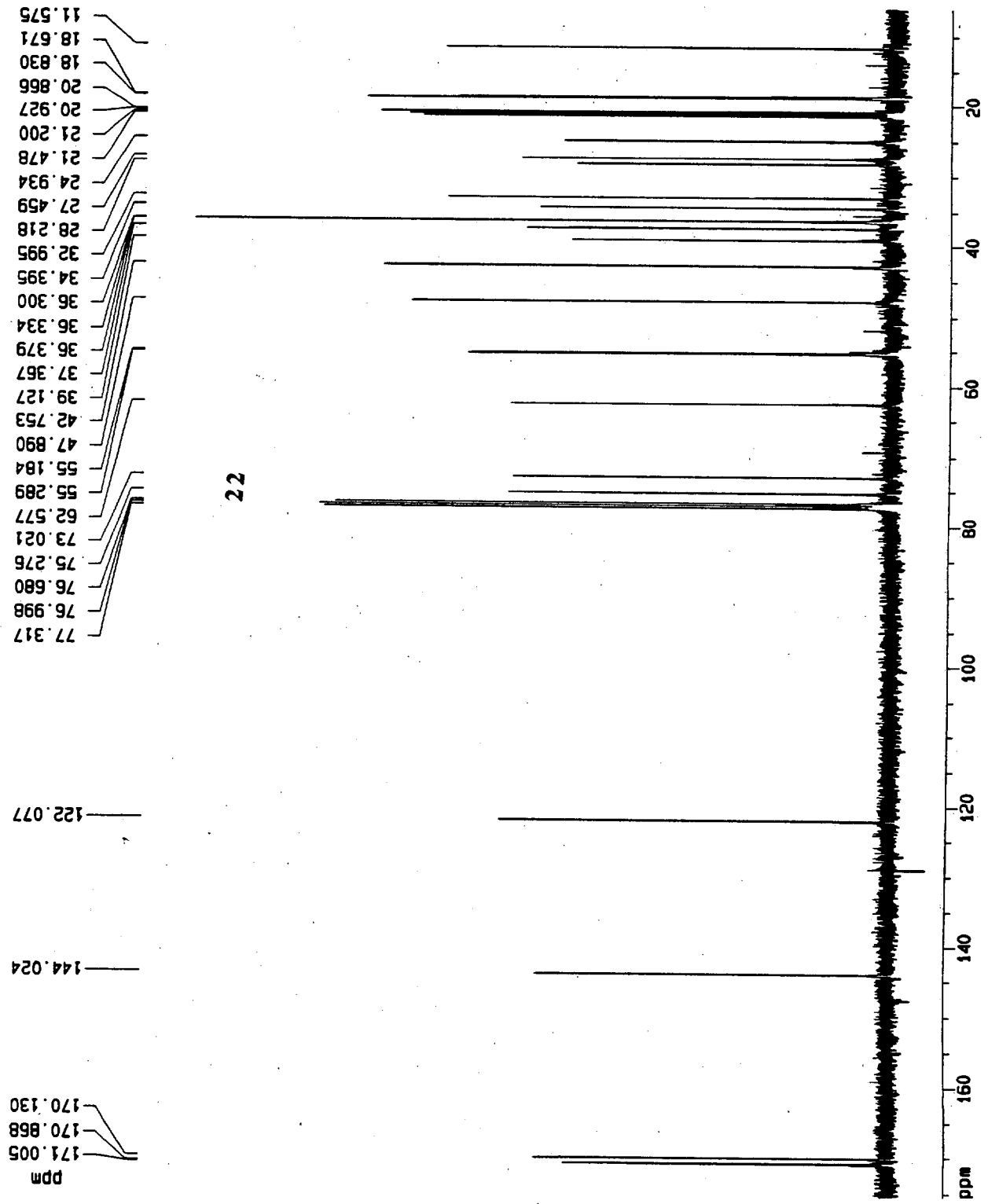
twj 03-177

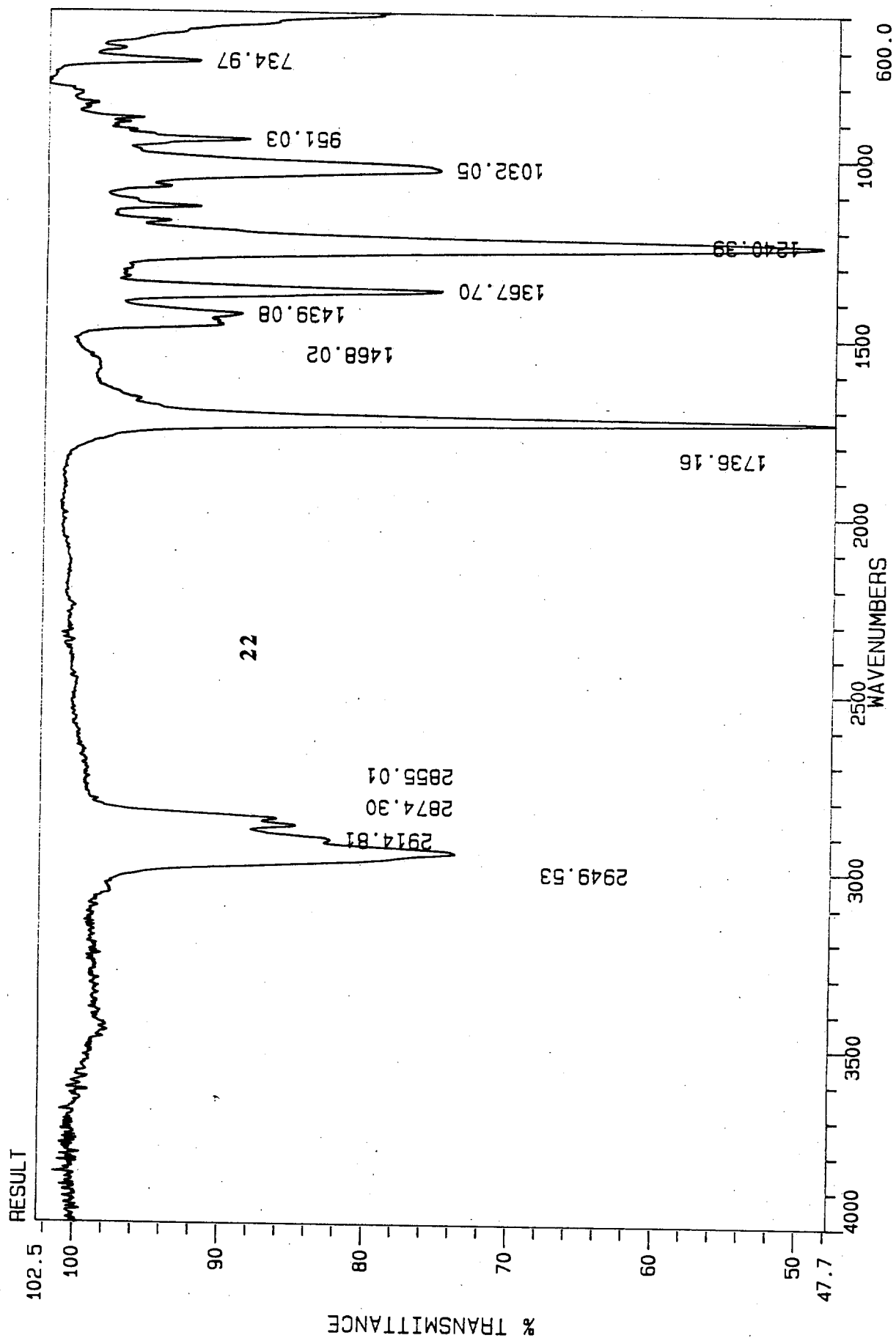
Current Data Parameters
 NAME twj03-177
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990312
 Time 14.35
 INSTRUM arx400
 PROBHD 5 mm GNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 165
 DS 0
 SMH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DW 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 D1 2.00000000 sec
 P1 6.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127825 MHz
 MDW EK
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 175.461 ppm
 F1 17653.62 Hz
 F2P 6.031 ppm
 F2 606.77 Hz
 PPMCH 8.47151 ppm/cm
 HZCM 852.34247 Hz/cm





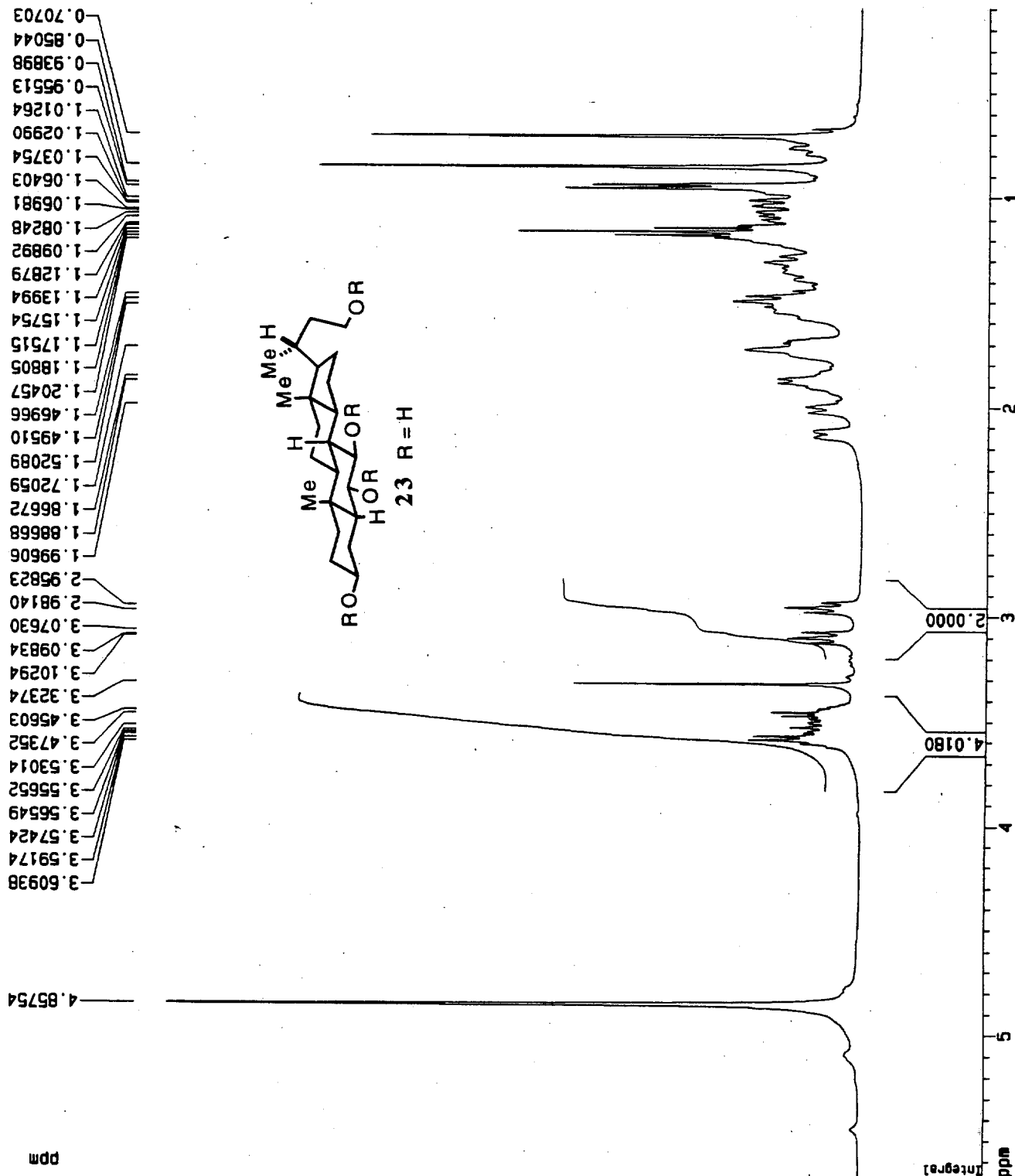
twj 03-179

Current Data Parameters
 NAME twj03-179
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990317
 Time 16.22
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TD 65536
 SOLVENT MeOH
 NS 8
 DS 0
 SWH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 64
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SFO1 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300173 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 5.669 ppm
 F1 2268.46 Hz
 F2P 0.095 ppm
 F2 38.16 Hz
 PPMCH 0.27870 ppm/cm
 HZCM 111.51527 Hz/cm



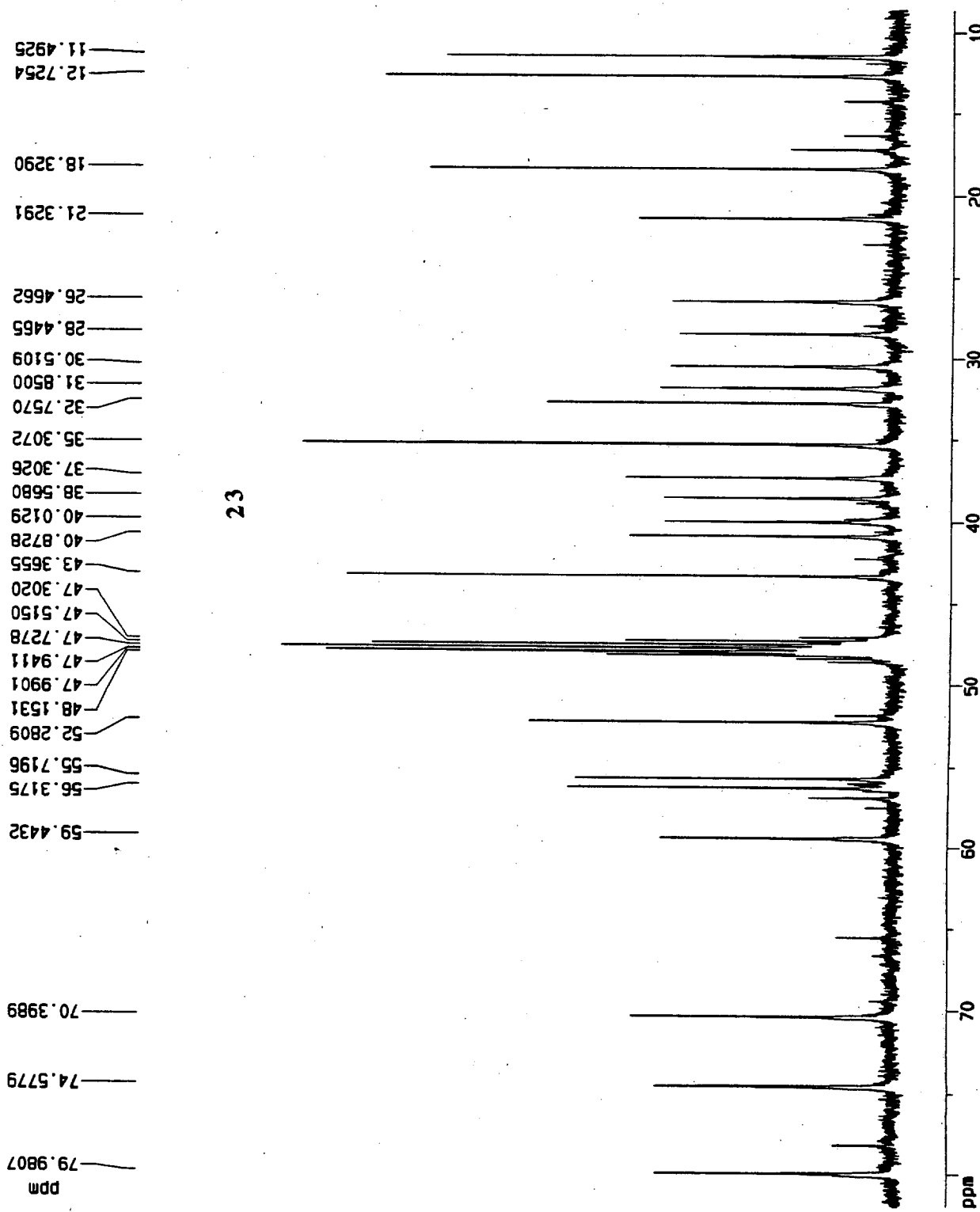
twj 03-179

Current Data Parameters
 NAME twj03-179
 EXPNO 2
 PROCNO 1

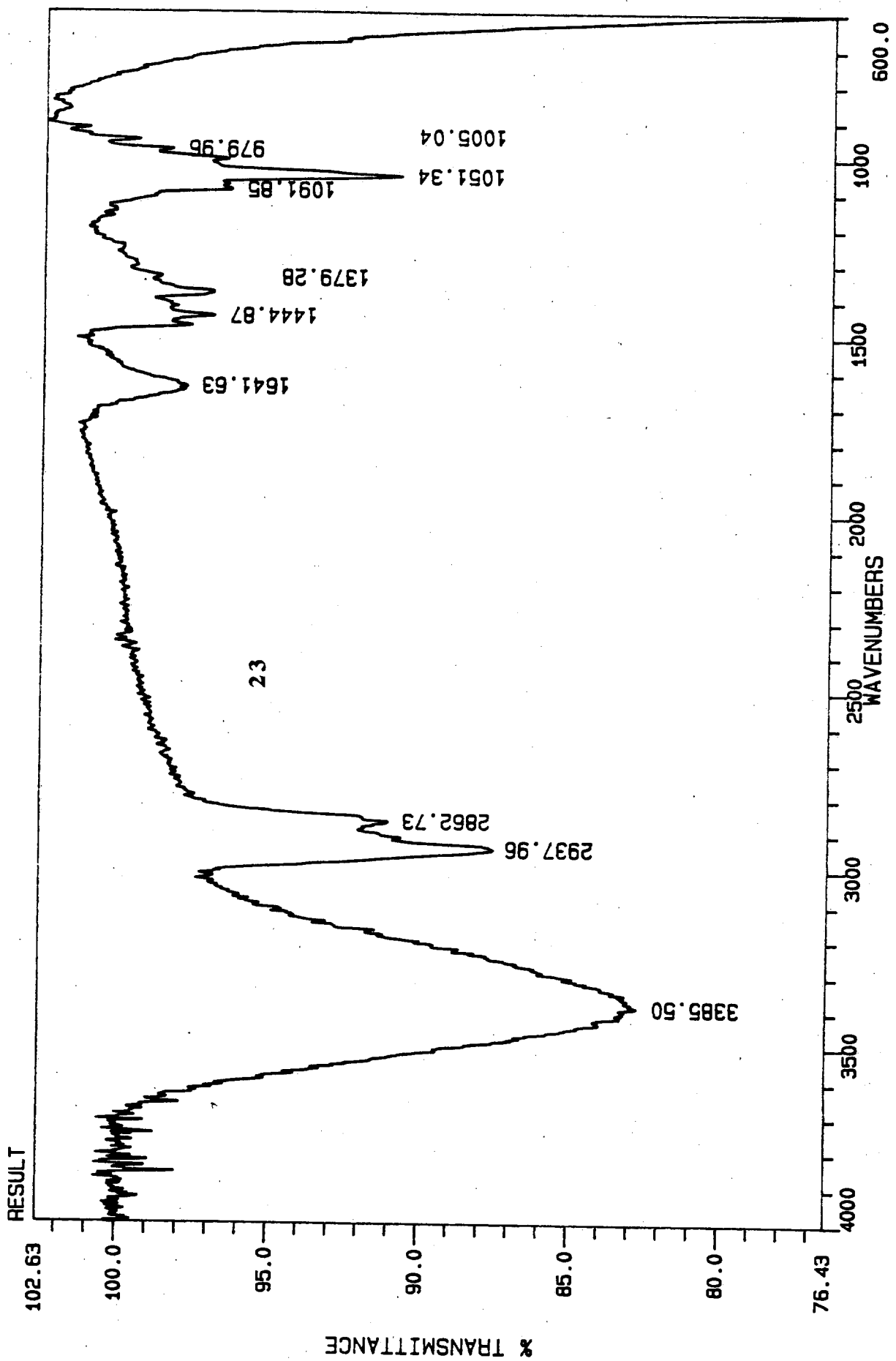
F2 - Acquisition Parameters
 Date_ 990317
 Time 16.29
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 175
 DS 0
 SWH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1795980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 OL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 D1 2.0000000 sec
 P1 6.25 usec
 SFO1 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127710 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 81.921 ppm
 F1 8242.28 Hz
 F2P 8.654 ppm
 F2 870.73 Hz
 PPMCM 3.66333 ppm/cm
 HZCM 368.57748 Hz/cm



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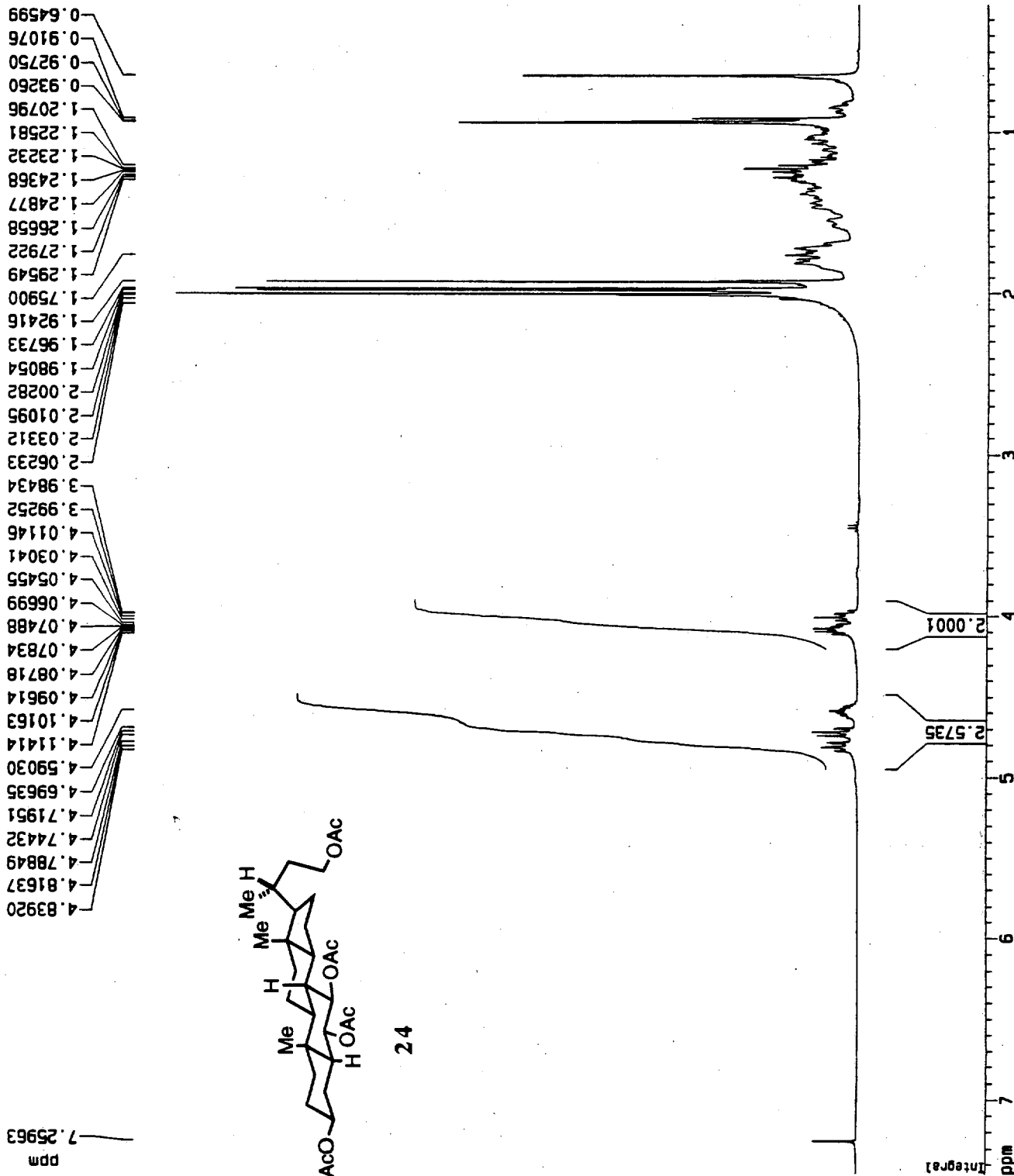
twj 03-183

Current Data Parameters
 NAME twj03-183
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990321
 Time 14.35
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TO 65536
 SOLVENT CDCl3
 NS 8
 DS 0
 SMH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 180
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SF01 400.132408 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300173 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 7.460 ppm
 F1 2984.95 Hz
 F2P 0.204 ppm
 F2 81.71 Hz
 PPMCM 0.36279 ppm/cm
 HZCM 145.16167 Hz/cm



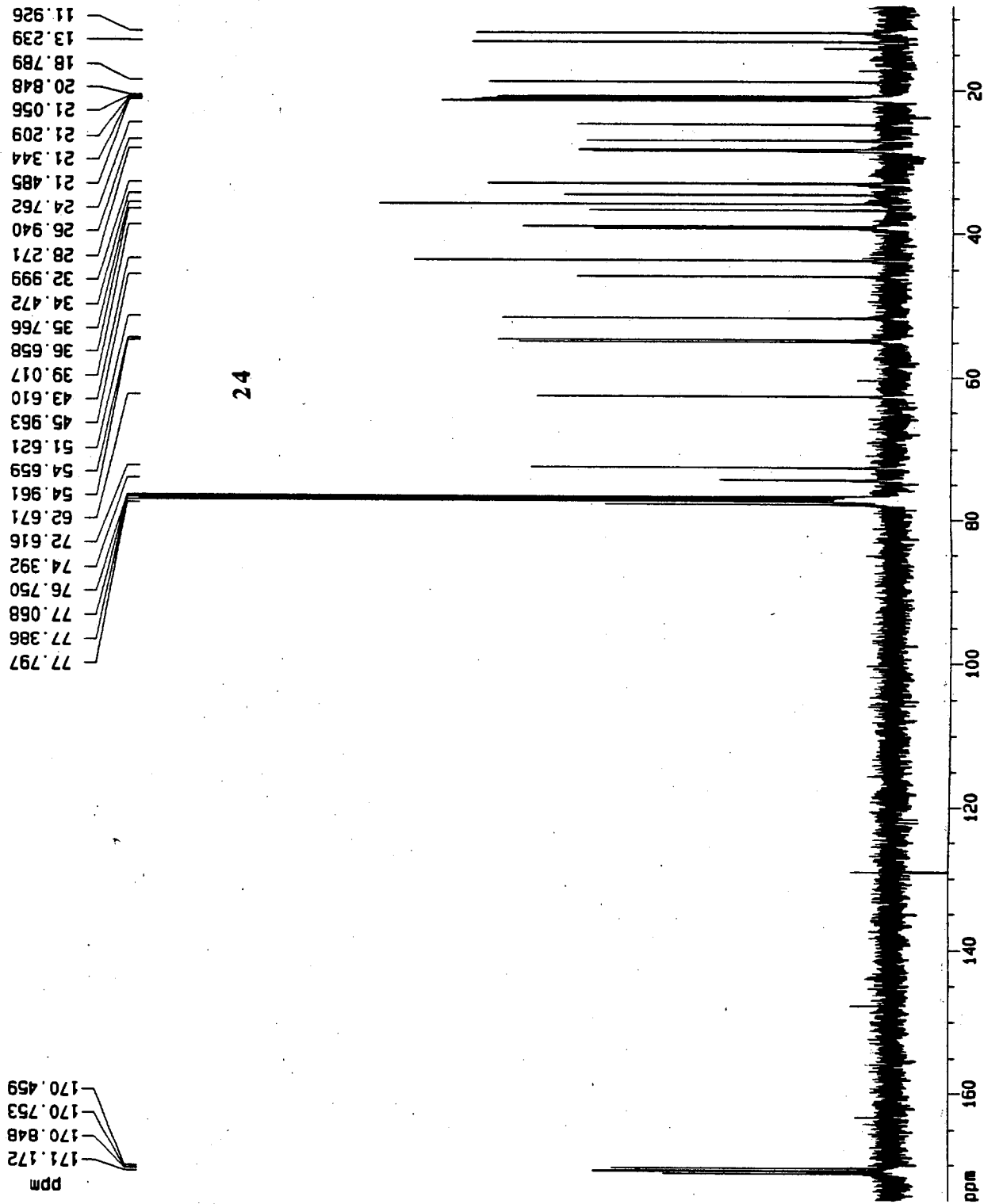
twj 03-183

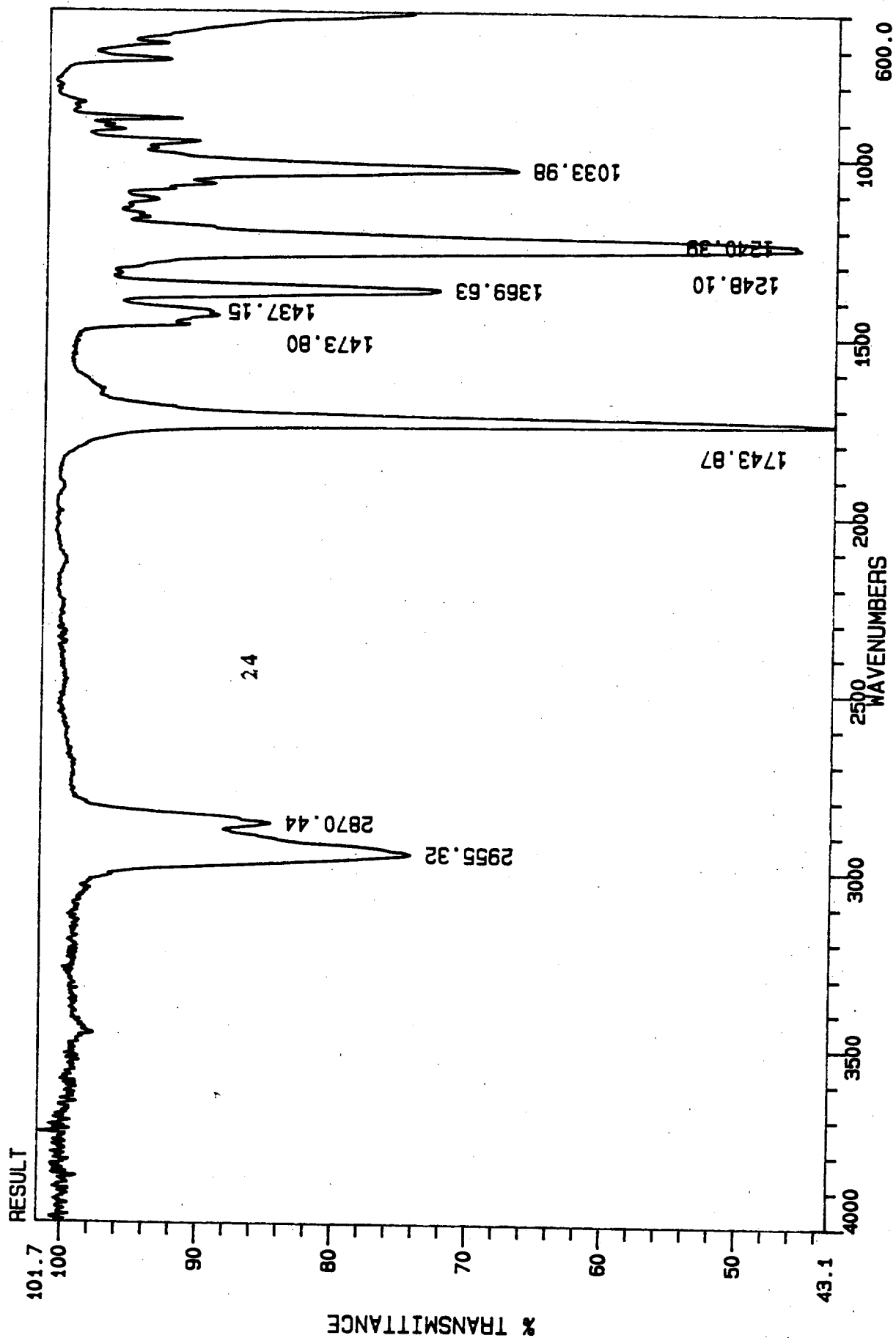
Current Data Parameters
 NAME twj03-183
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990321
 Time 14.43
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 261
 DS 0
 SMH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DH 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 D1 2.00000000 sec
 P1 6.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127710 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

ID NMR plot parameters
 CX 20.00 cm
 F1P 174.952 ppm
 F1 17592.29 Hz
 F2P 8.164 ppm
 F2 821.39 Hz
 PPMCM 8.33436 ppm/cm
 HZCM 838.54541 Hz/cm





twj 03-187

Current Data Parameters
 NAME twj03-187
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters

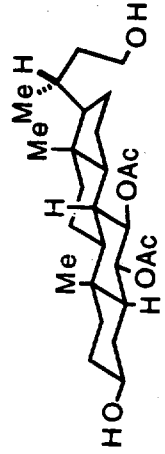
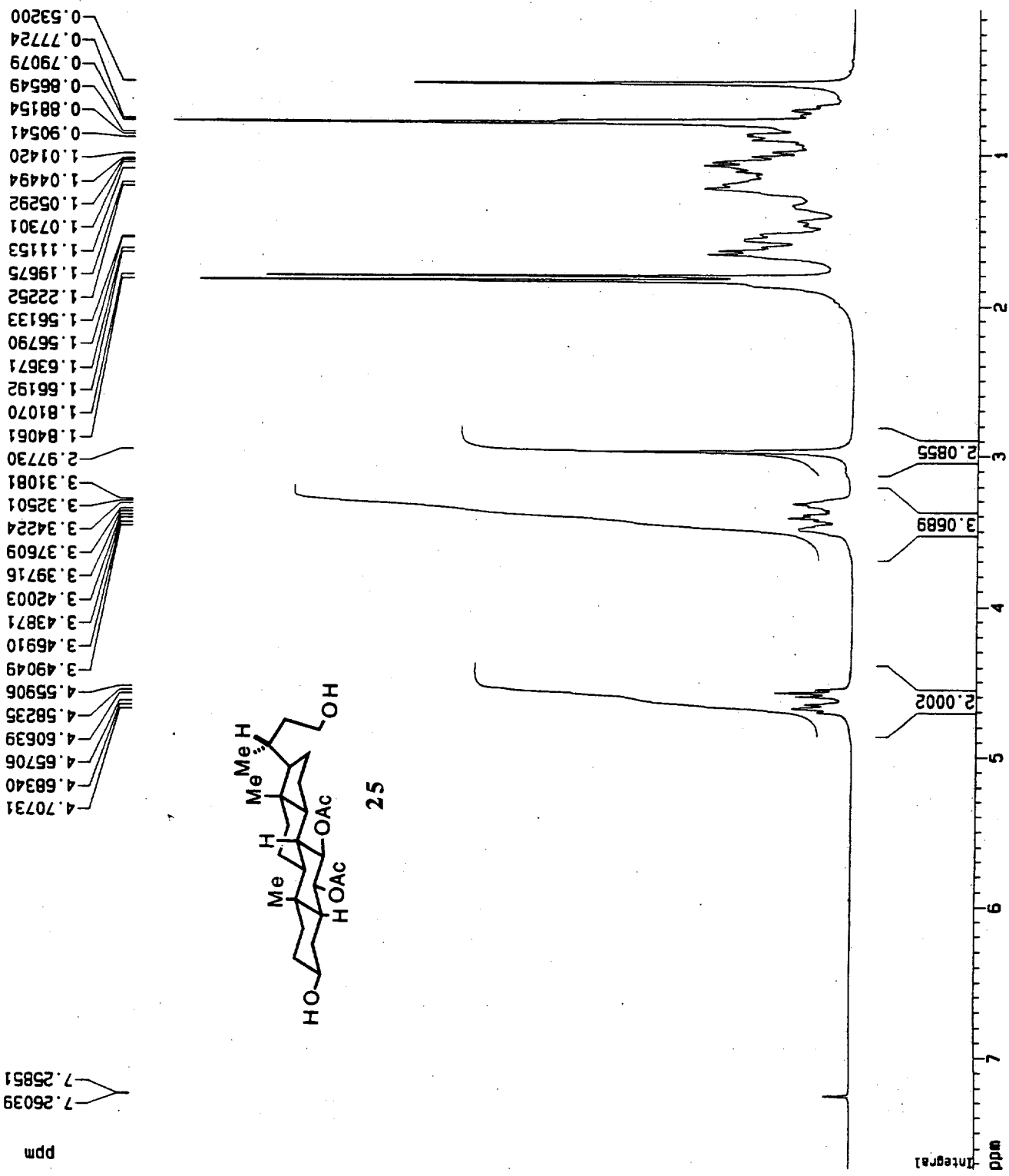
Date_ 990325
 Time 13.27
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 0
 SWH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 32
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SF01 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters

SI 65536
 SF 400.1300173 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

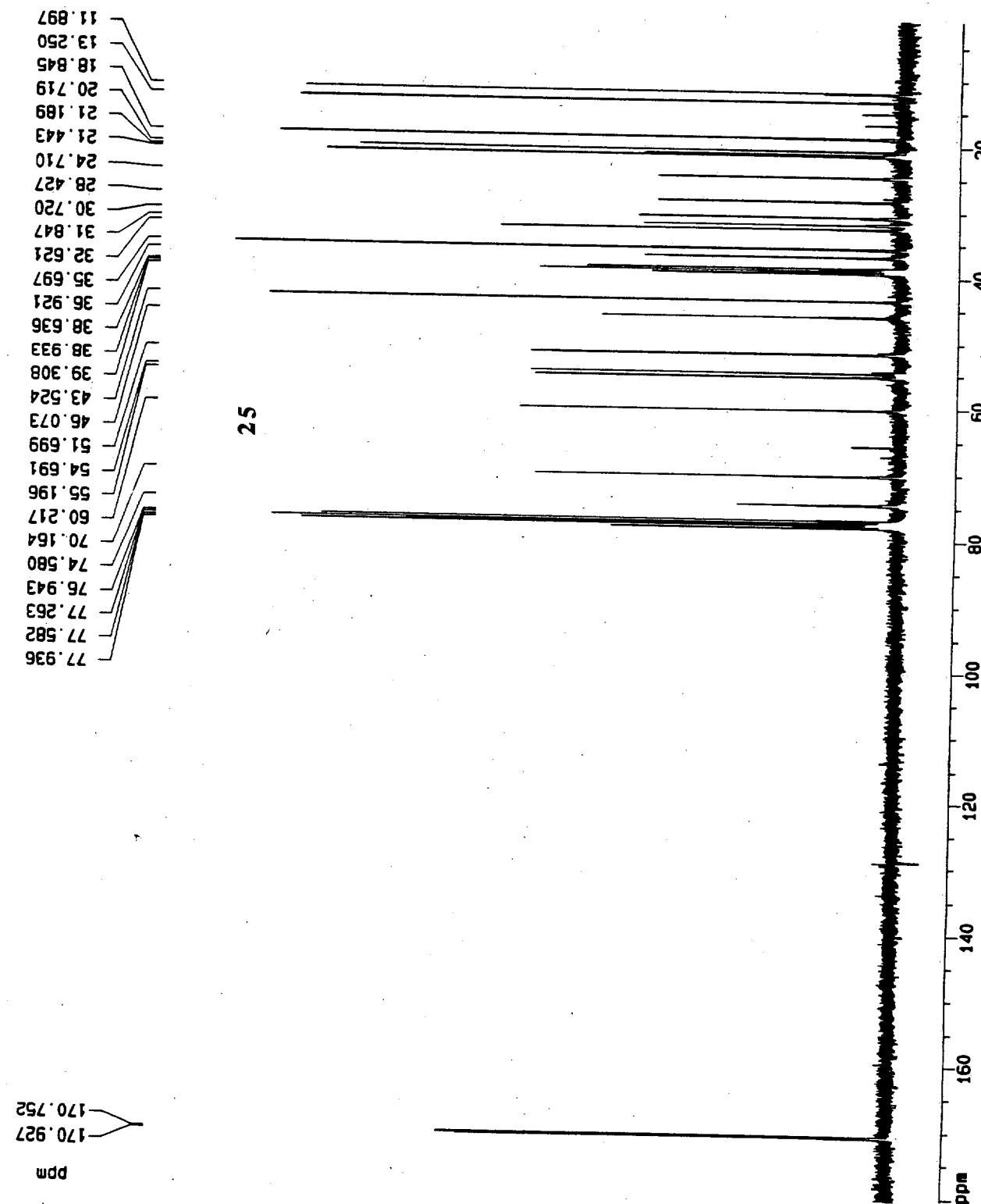
CX 20.00 cm
 F1P 7.738 ppm
 F1 3096.35 Hz
 F2P 0.034 ppm
 F2 13.65 Hz
 PPMCM 0.38521 ppm/cm
 HZCM 154.13480 Hz/cm



ppm

Integral

twj 03-187

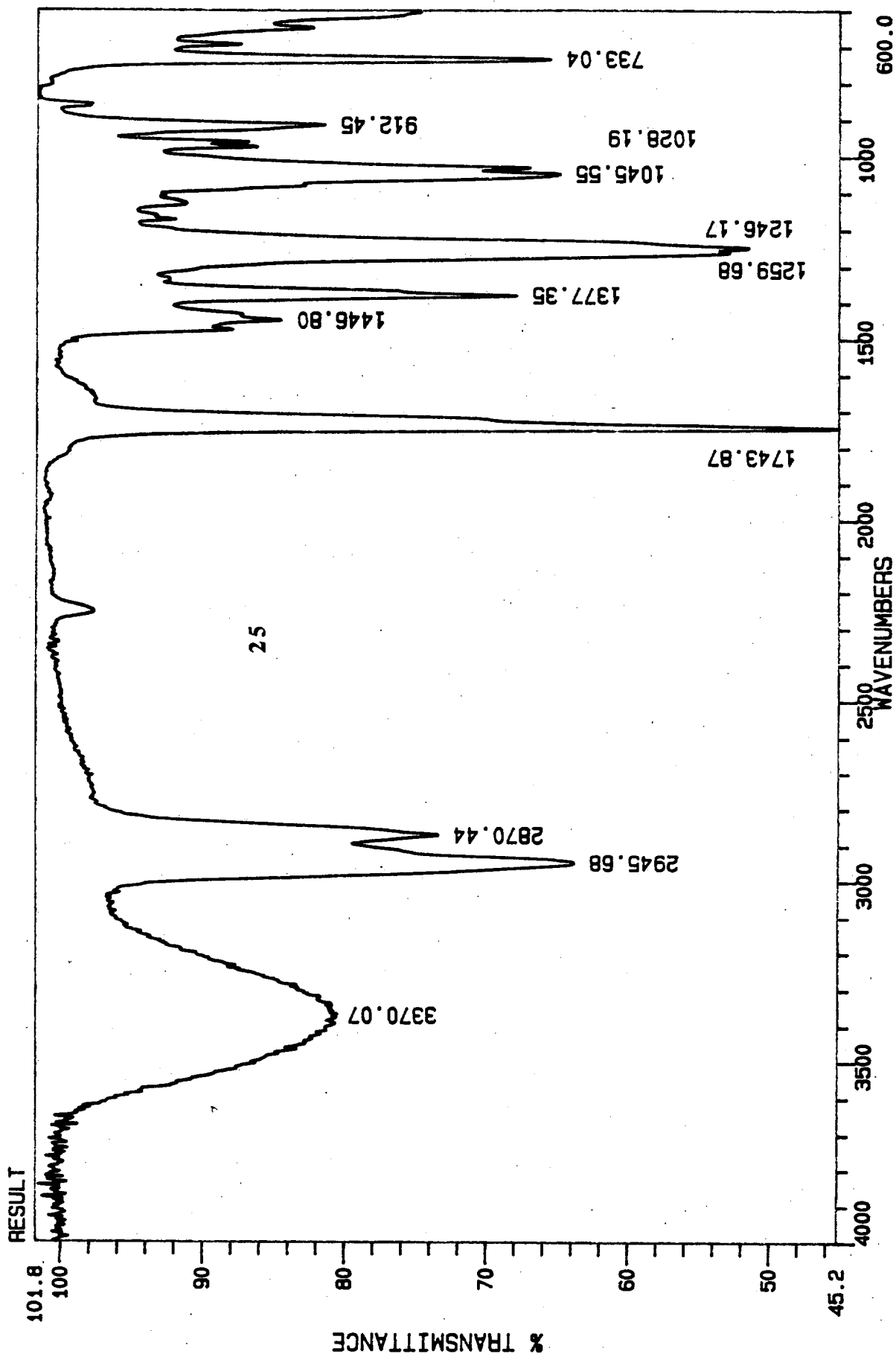


Current Data Parameters
 NAME twj03-187
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990325
 Time 13.33
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 189
 DS 0
 SMH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPOPRG waltz16
 P31 100.00 usec
 D1 2.0000000 sec
 P1 6.25 usec
 SFO1 100.6246445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127710 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 FIP 180.337 ppm
 F1 18144.17 Hz
 F2P 0.950 ppm
 F2 85.55 Hz
 PPMCM 8.97432 ppm/cm
 H7CM 0.02 0.000 Hz/cm



twj 03-188

Current Data Parameters
 NAME twj03-188
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters

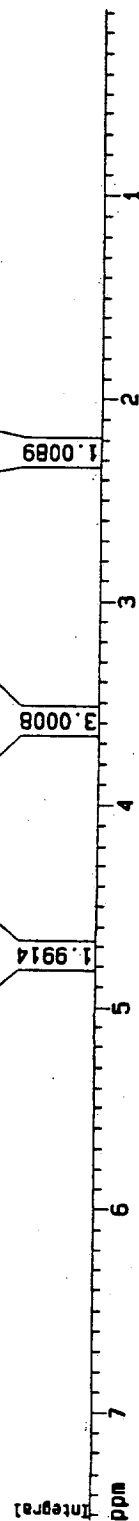
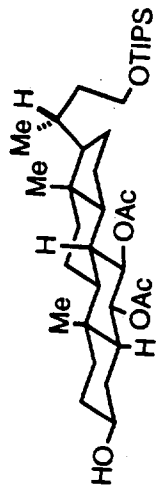
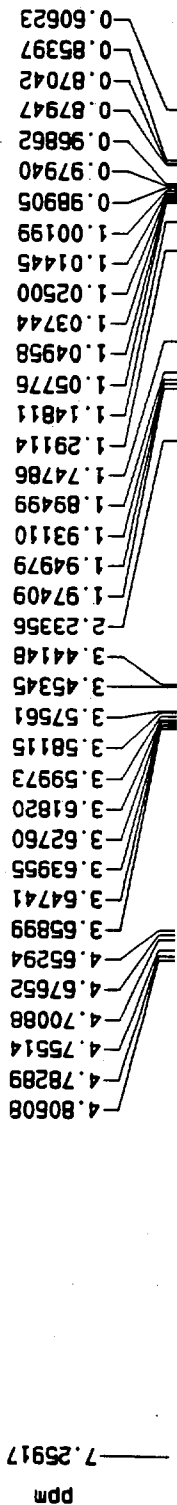
Date_ 990326
 Time 16.36
 INSTRUM arx400
 PROBHD 5 mm ONP 1H
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 0
 SWH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 32
 DW 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 O1 2.0000000 sec
 P1 8.25 usec
 SF01 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters

SI 65536
 SF 400.1300173 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

CX 20.00 cm
 F1P 7.524 ppm
 F1 3010.43 Hz
 F2P 0.084 ppm
 F2 33.74 Hz
 PPMCM 0.37196 ppm/cm
 HZCM 148.83424 Hz/cm



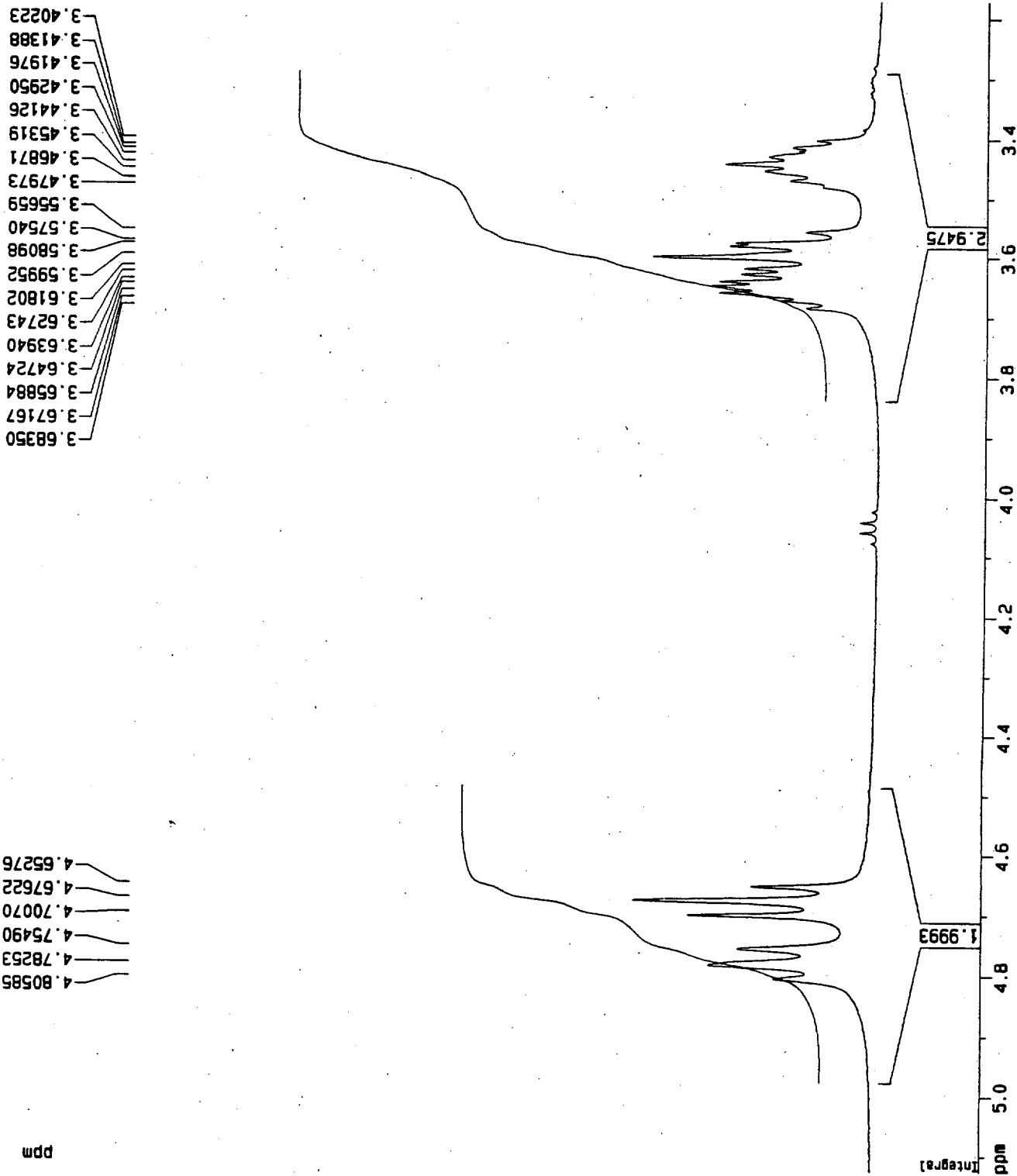
twj 03-188

Current Data Parameters
 NAME twj03-188
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990326
 Time 16.36
 INSTRUM arx400
 PROBHD 5 mm ONP 1H
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 8
 DS 0
 SWH 8064.515 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 32
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.00000000 sec
 P1 8.25 usec
 SFO1 400.132408 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300173 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 FIP 5.126 ppm
 F1 2051.05 Hz
 F2P 3.172 ppm
 F2 1269.10 Hz
 PPMCM 0.09771 ppm/cm
 HZCM 39.09774 Hz/cm



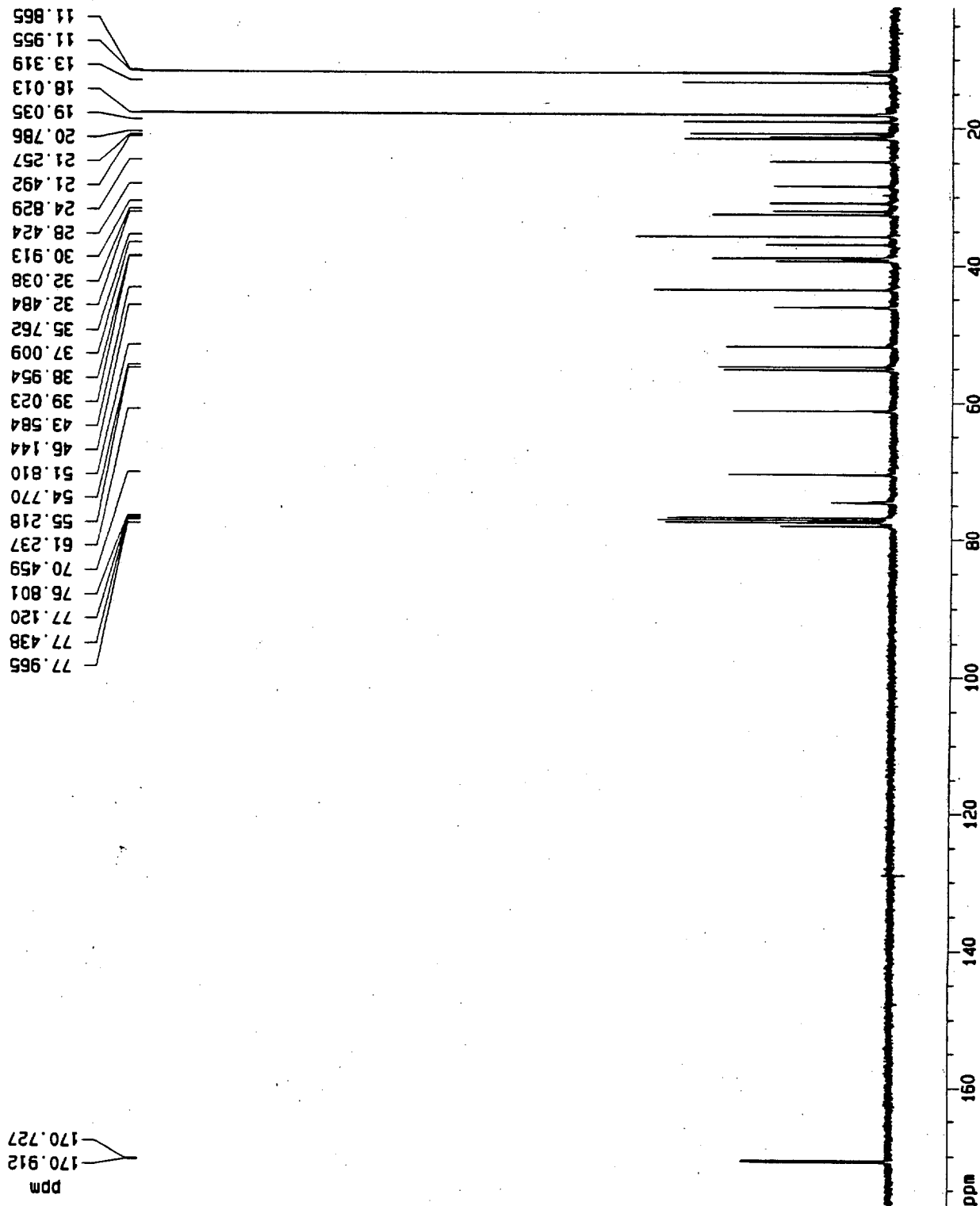
twj 03-188

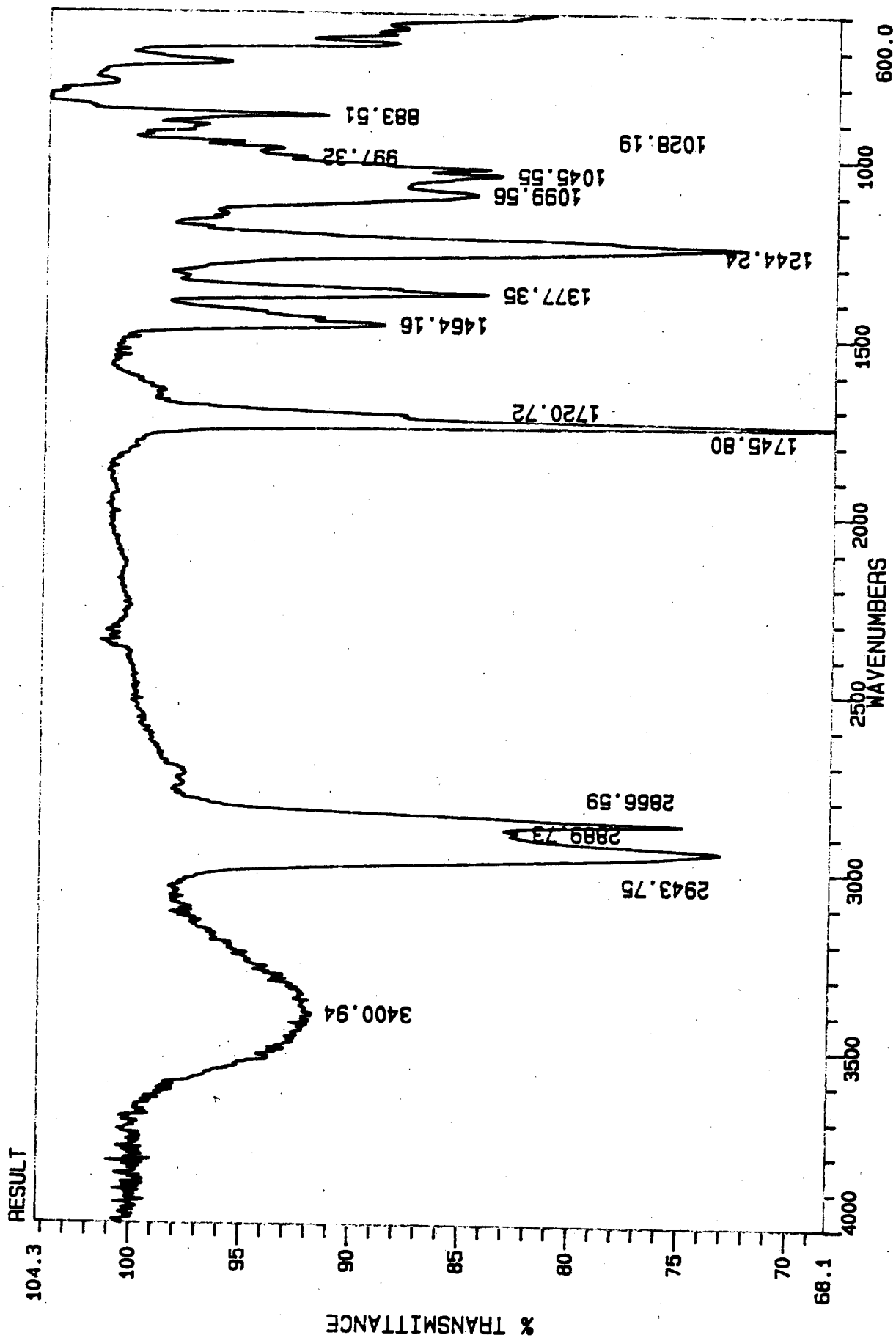
Current Data Parameters
 NAME twj03-188
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990326
 Time 15.41
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 175
 OS 0
 SWH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 P1 2.0000000 sec
 P1 6.25 usec
 SFO1 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127710 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 176.985 ppm
 F1 17806.92 Hz
 F2P 2.374 ppm
 F2 238.85 Hz
 PPMCM 8.73054 ppm/cm
 HZCM 878.40332 Hz/cm





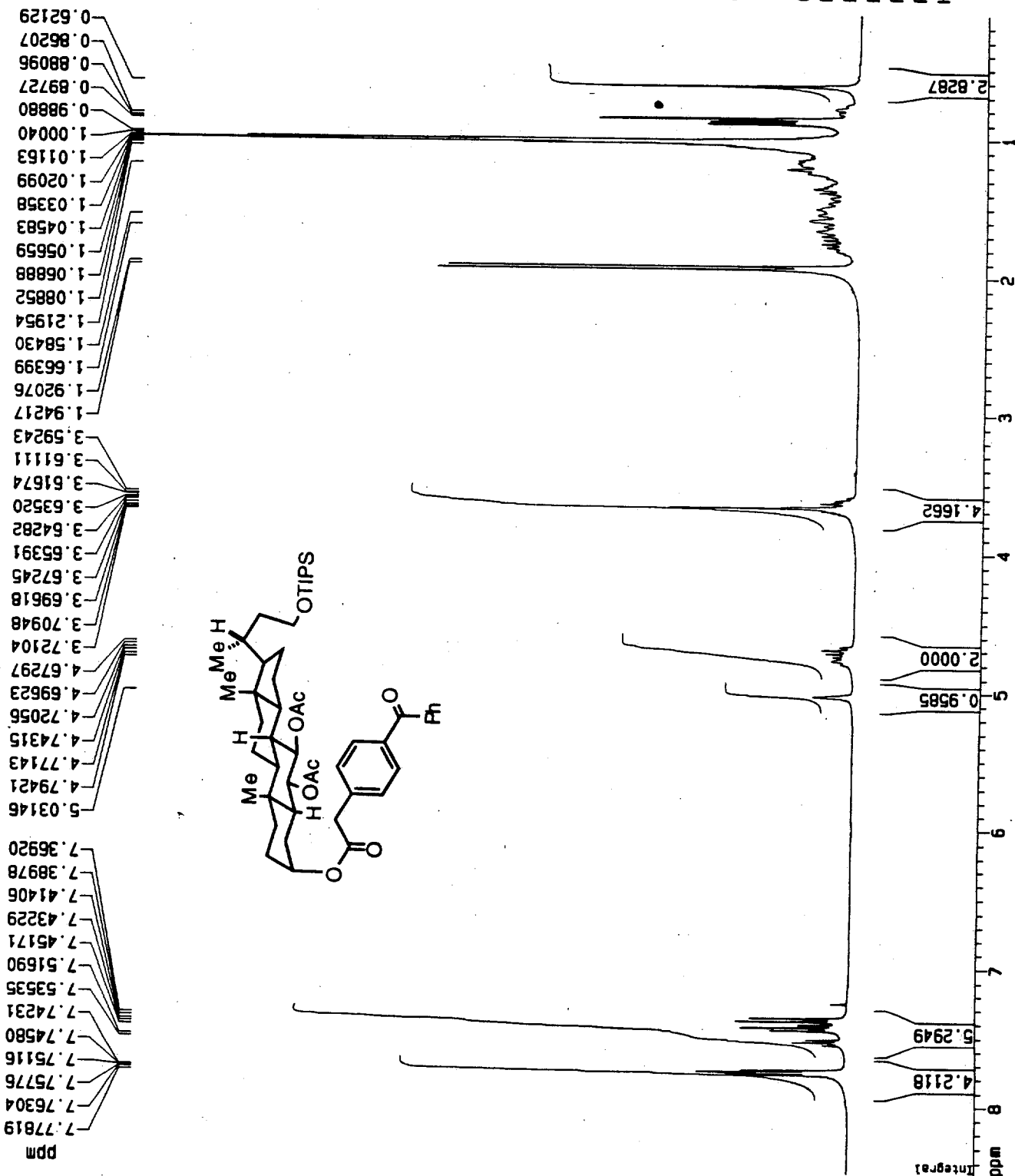
twj 03-189

Current Data Parameters
 NAME twj03-189
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990327
 Time 19.04
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TO 65536
 SOLVENT CDC13
 NS 8
 DS 0
 SMH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 64
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SFO1 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300173 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 8.486 ppm
 F1 3395.42 Hz
 F2P 0.105 ppm
 F2 42.12 Hz
 PPMCM 0.41903 ppm/cm
 HZCM 167.66508 Hz/cm



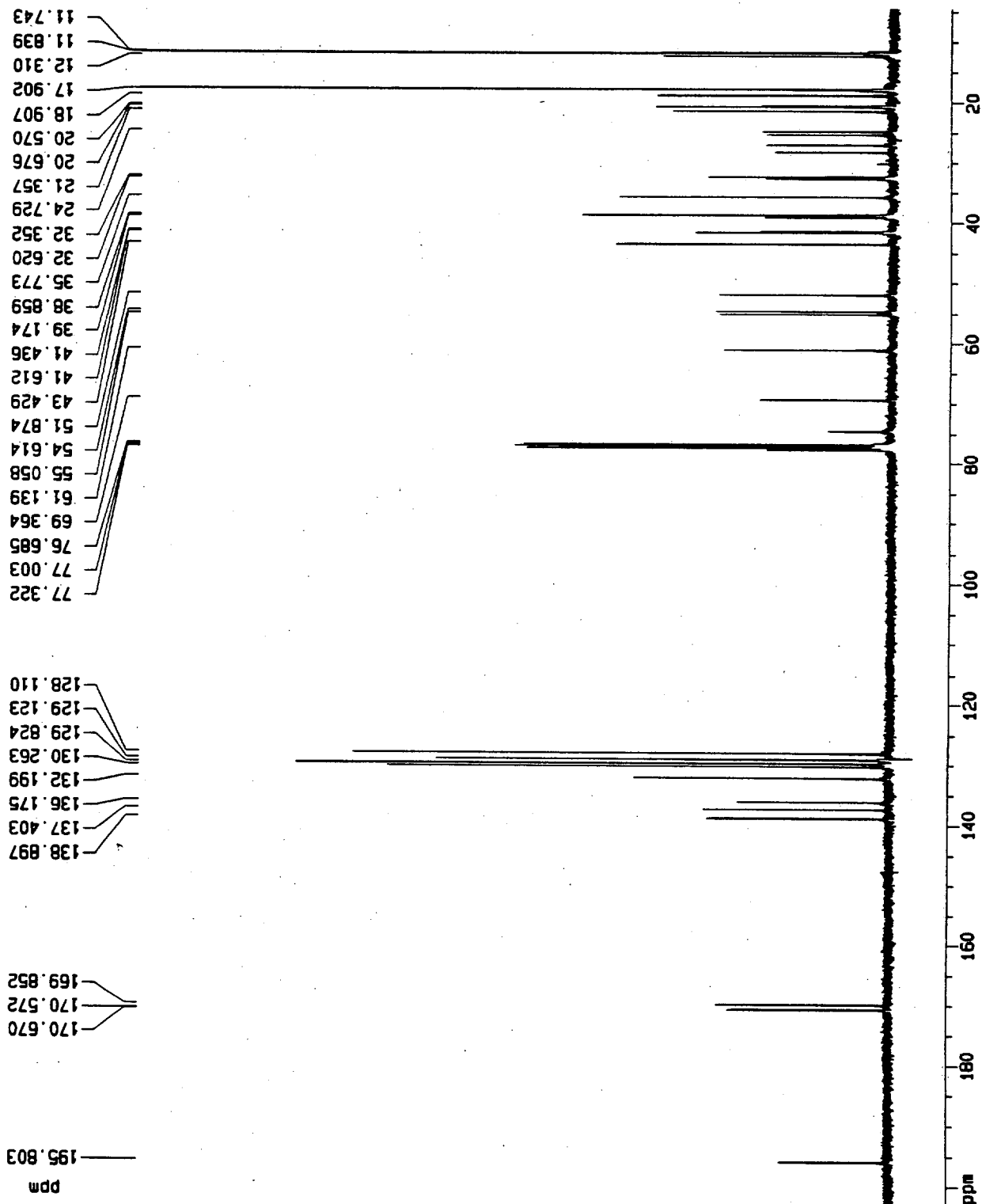
twj 03-189

Current Data Parameters
 NAME twj03-189
 EXPNO 2
 PROCNO 1

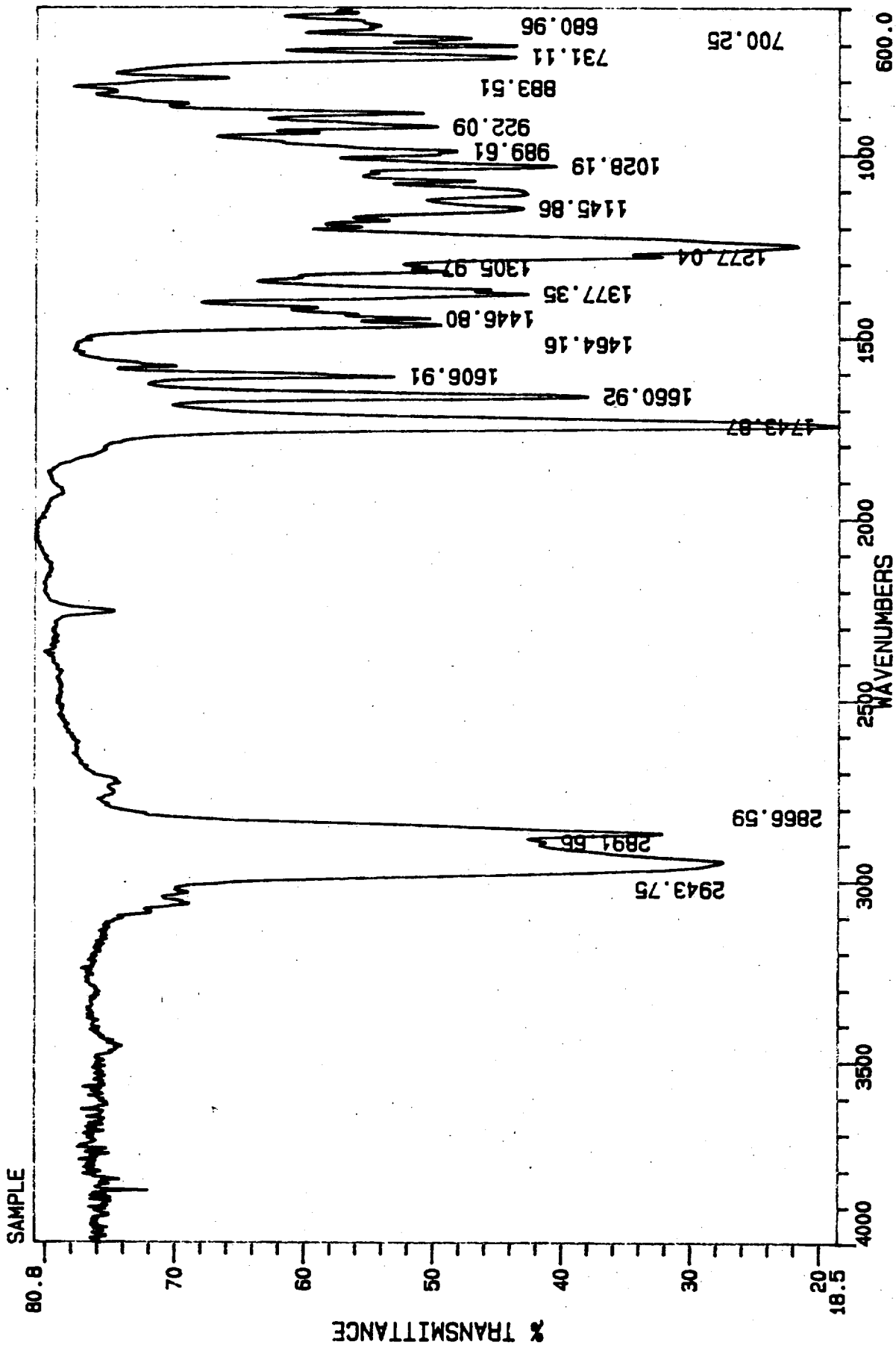
F2 - Acquisition Parameters
 Date_ 990327
 Time 19.17
 INSTRUM apx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 357
 DS 0
 SNUH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 16.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPDPRG waltz16
 P31 100.00 usec
 D1 2.0000000 sec
 P1 6.25 usec
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127863 MHz
 NDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 202.582 ppm
 F1 20382.34 Hz
 F2P 4.507 ppm
 F2 453.47 Hz
 PPMCM 9.90375 ppm/cm
 HZCM 996.44360 Hz/cm



TWJ 03-189



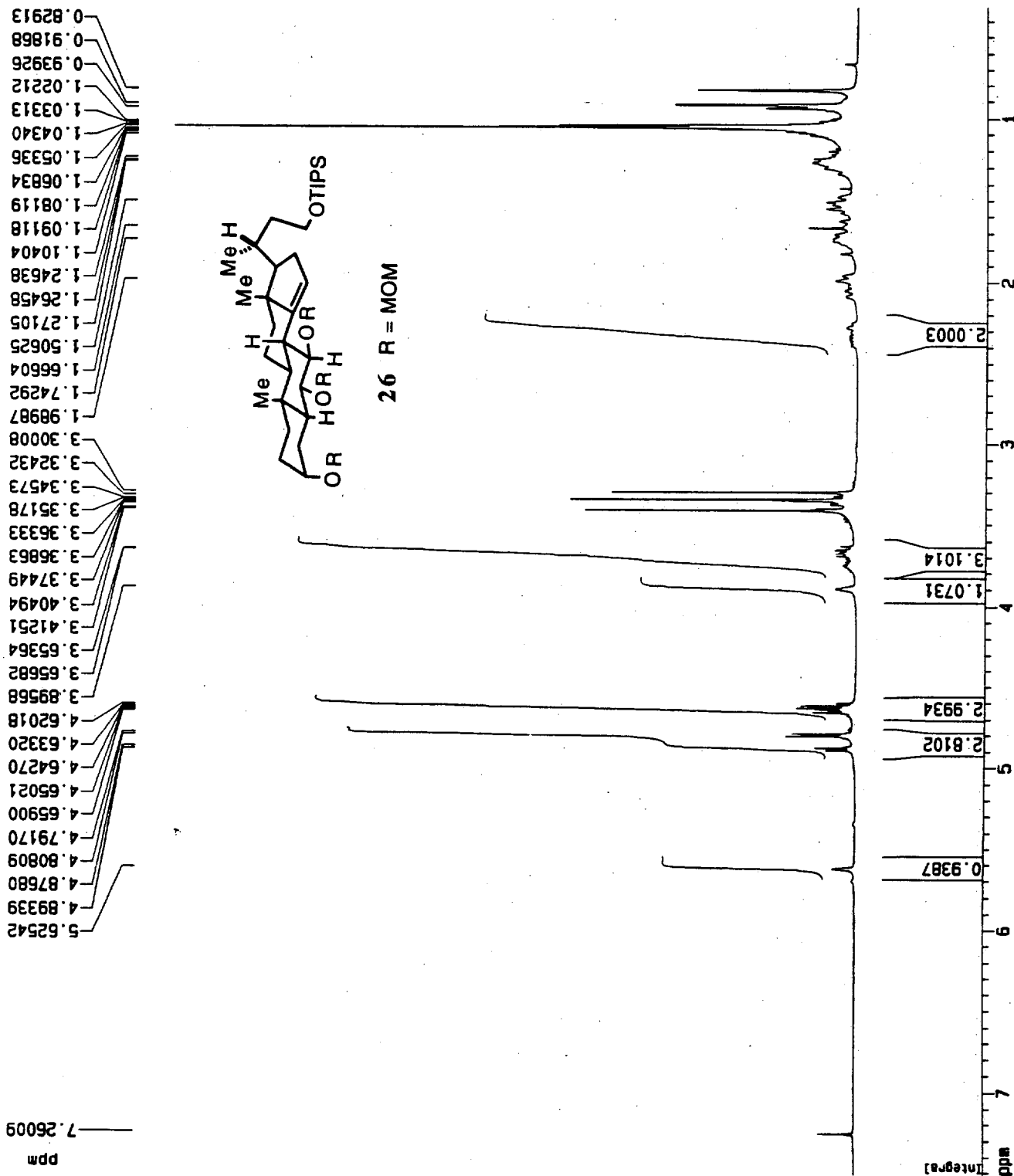
twj 03-196

Current Data Parameters
 NAME twj03-196
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990407
 Time 11.46
 INSTRUM arx400
 PROBHD 5 mm QNP 1H
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 8
 DS 0
 SMH 8064.516 Hz
 FIDRES 0.123055 Hz
 AQ 4.0632820 sec
 RG 256
 DM 62.000 usec
 DE 88.57 usec
 TE 300.0 K
 D1 2.0000000 sec
 P1 8.25 usec
 SF01 400.1324008 MHz
 NUCLEUS 1H

F2 - Processing parameters
 SI 65536
 SF 400.1300173 MHz
 MDW EM
 SS8 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 7.513 ppm
 F1 3005.01 Hz
 F2P 0.316 ppm
 F2 126.49 Hz
 PPMCH 0.35982 ppm/cm
 HZCM 143.97615 Hz/cm



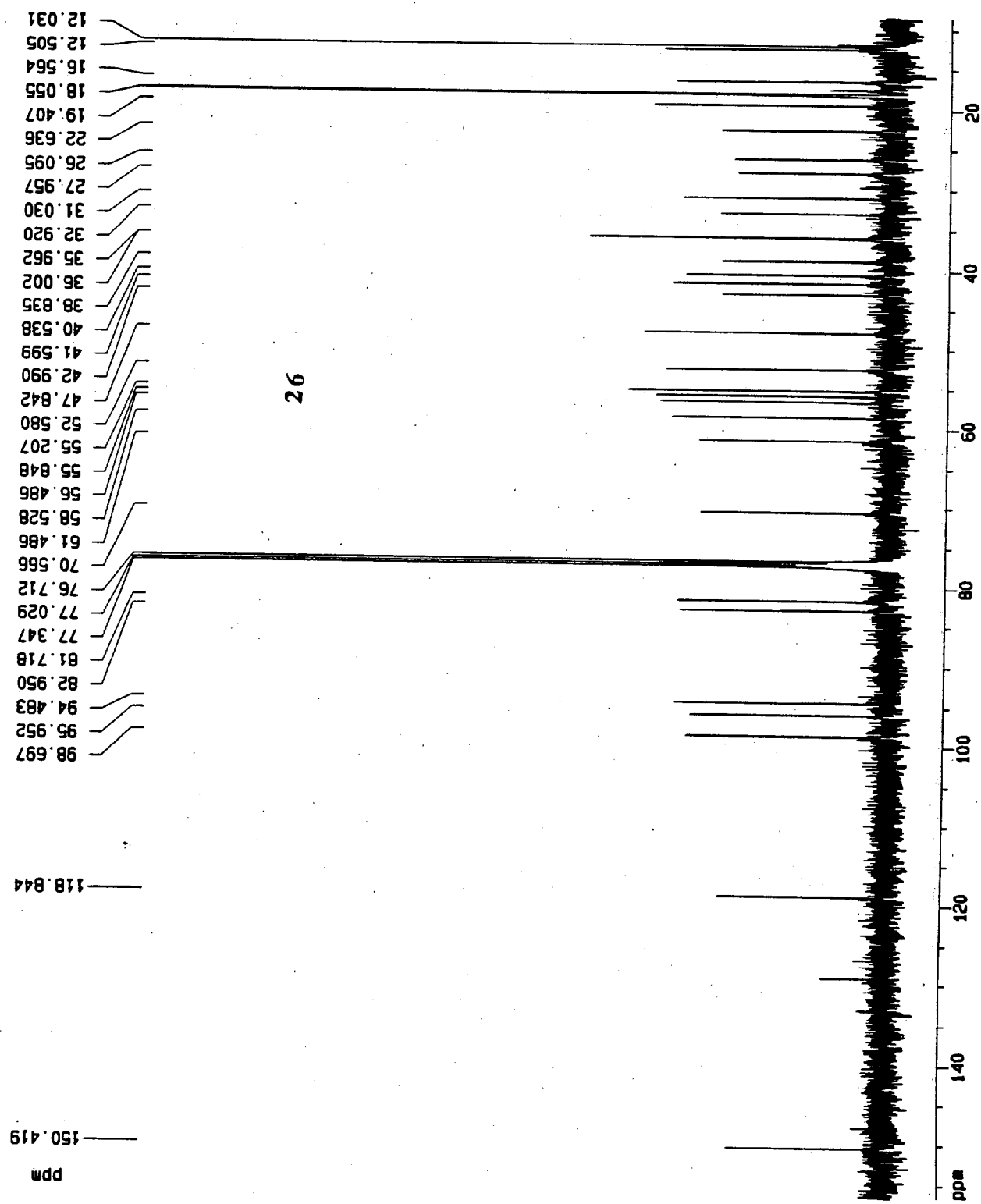
twj 03-196

Current Data Parameters
 NAME twj03-196
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990407
 Time 11.55
 INSTRUM airx400
 PROBHD 5 mm QNP 1H
 PULPROG zgpg30
 TD 65536
 SOLVENT COCl3
 NS 405
 DS 0
 SWH 27777.777 Hz
 FIDRES 0.423855 Hz
 AQ 1.1796980 sec
 RG 32768
 DM 18.000 usec
 DE 25.71 usec
 TE 300.0 K
 D12 0.0000200 sec
 DL5 23.50 dB
 CPOPRG waltz16
 P31 100.00 usec
 D1 2.00000000 sec
 P1 6.25 usec.
 SF01 100.6248445 MHz
 NUCLEUS 13C
 D11 0.0300000 sec

F2 - Processing parameters
 SI 65536
 SF 100.6127710 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

ID NMR plot parameters
 CX 20.00 cm
 F1P 156.568 ppm
 F1 15752.71 Hz
 F2P 8.469 ppm
 F2 852.04 Hz
 PPMCM 7.40495 ppm/cm
 HZCM 745.03314 Hz/cm



TWJ 03-196

