

Supporting Information

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CWII-147

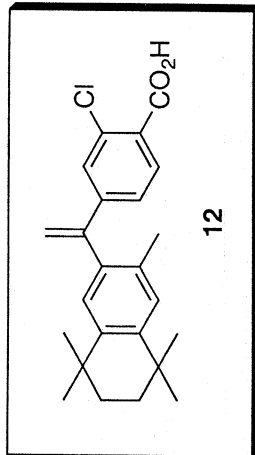


NAME CWII-147
 EXPNO 12
 PROCNO 1
 Date_ 20120419
 Time_ 16.55
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 64
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.8 K
 D1 1.00000000 sec
 TD0 1

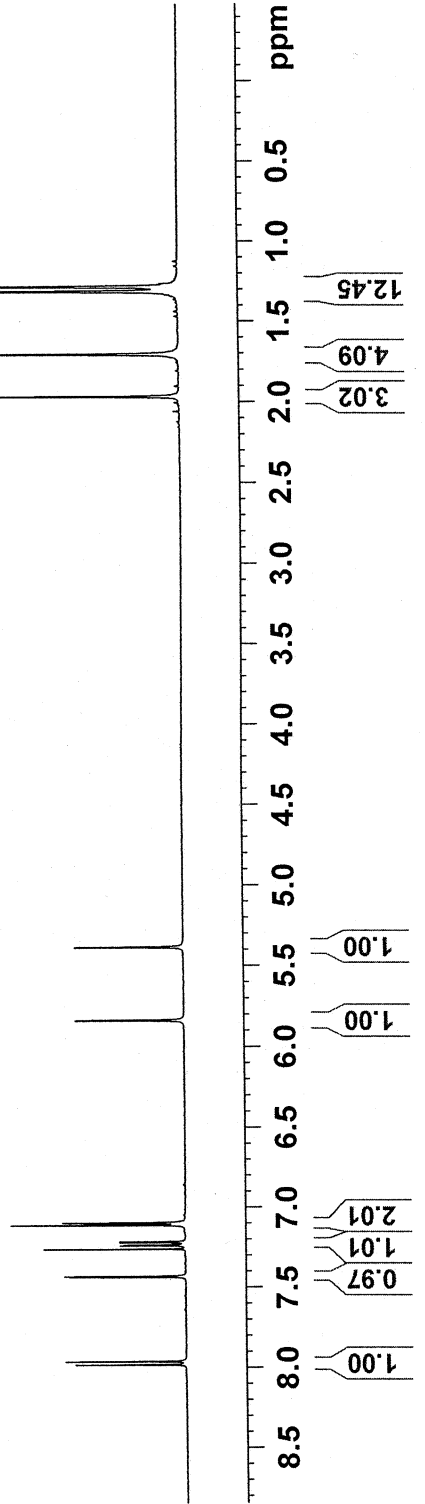
===== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.50 dB
 PL1W 12.76071072 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300101 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1.966
 1.705
 1.312
 1.283

7.981
 7.960
 7.435
 7.431
 7.260
 7.238
 7.234
 7.218
 7.213
 7.110
 7.096
 5.838
 5.836
 5.386
 5.384



S2





NAME CWII-147
 EXPNO 13
 PROCNO 1
 Date_ 20120419
 Time_ 17.22
 INSTRUM spect
 PROBD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDC13
 NS 419
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.3 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.10 dB
 PL1W 60.29227829 W
 SF01 100.6228298 MHz

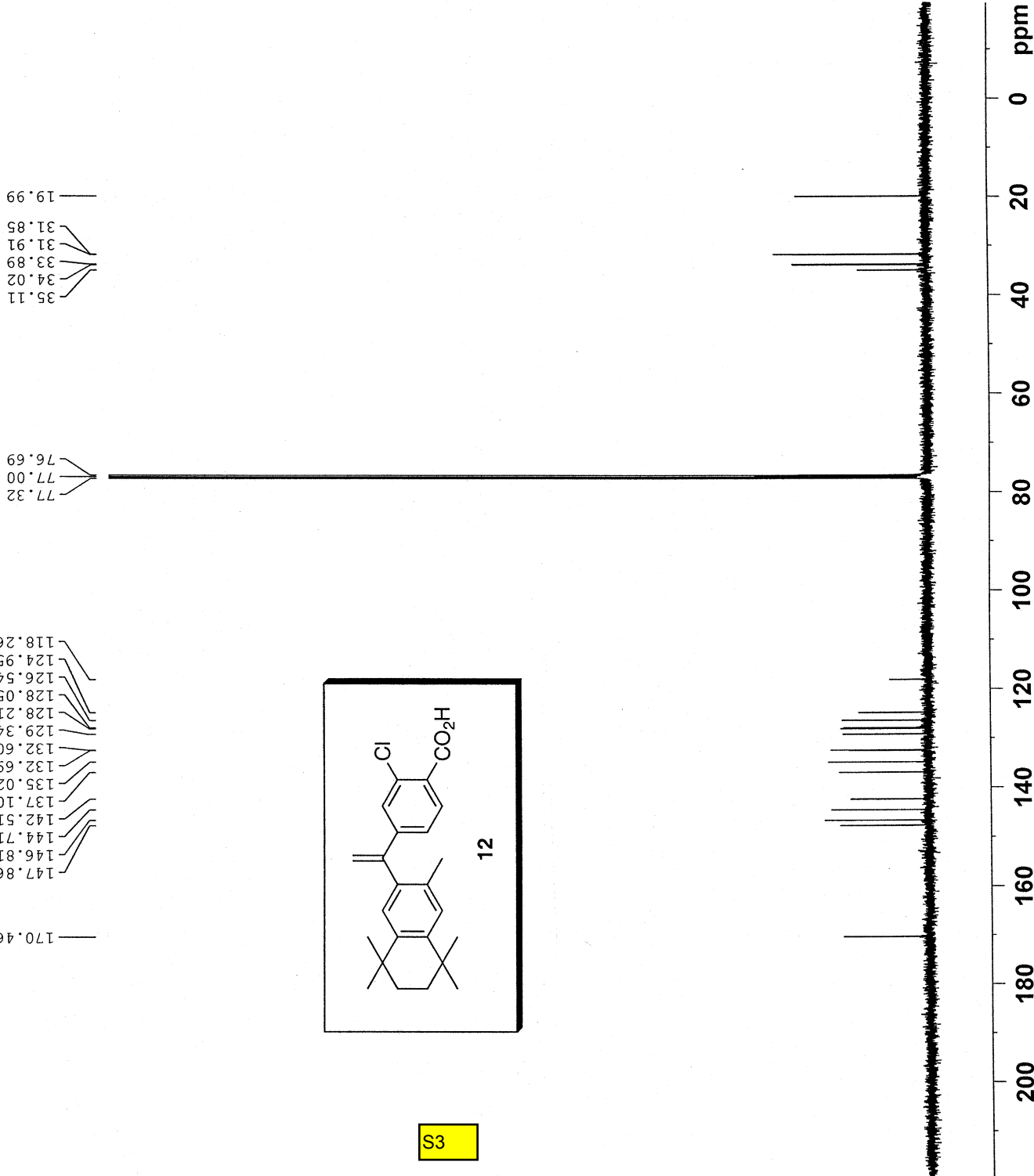
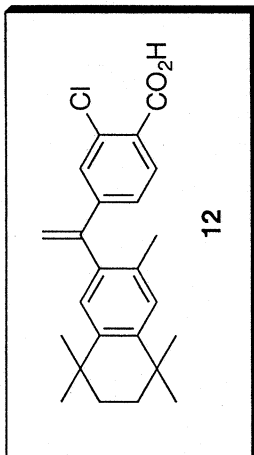
===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127722 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

19.99
 31.85
 31.91
 33.89
 34.02
 35.11

76.69
 77.00
 77.32

118.26
 124.95
 126.54
 128.05
 128.21
 129.34
 132.60
 132.69
 135.02
 137.10
 142.51
 144.71
 146.81
 147.86

170.46



CWII-155



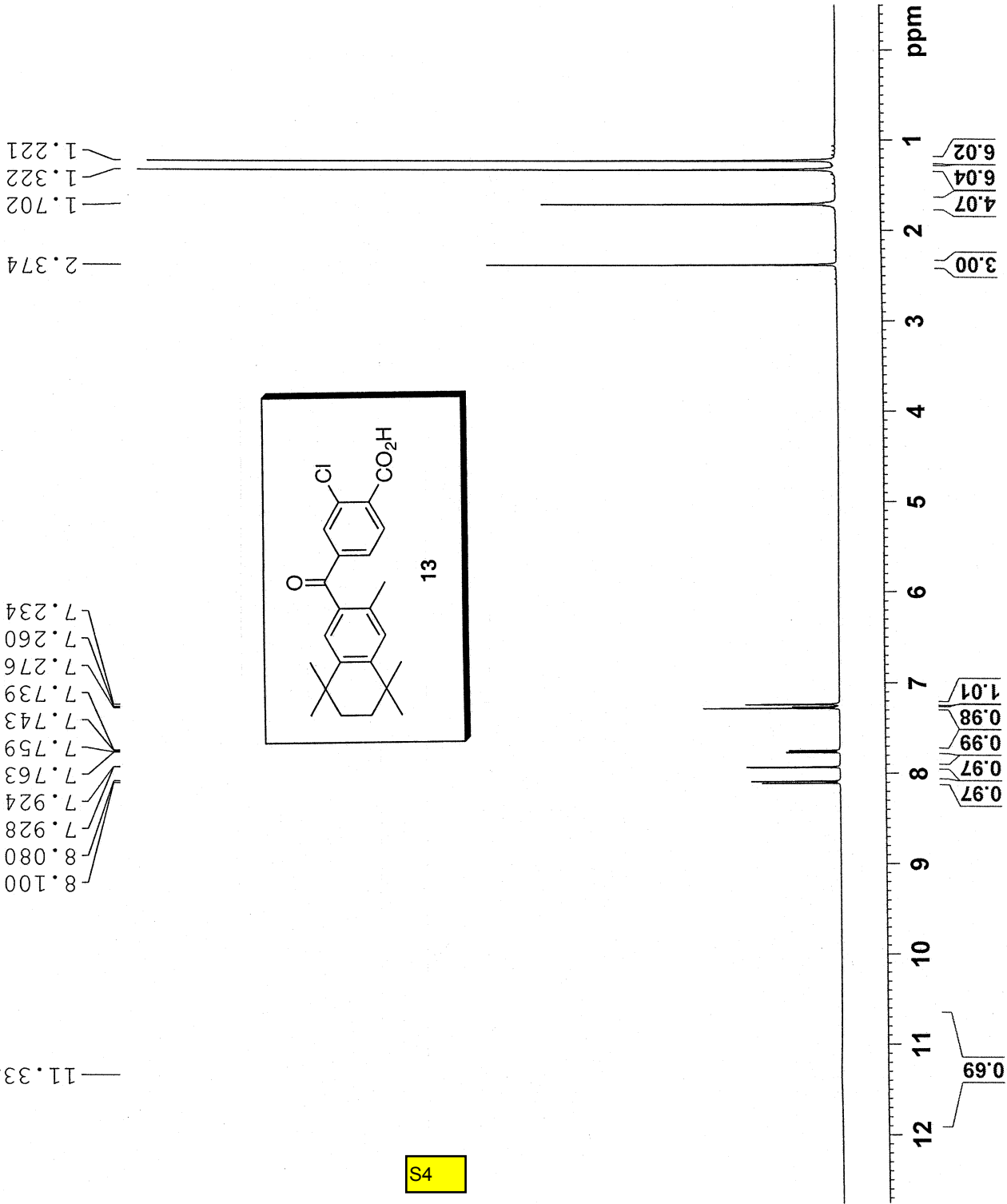
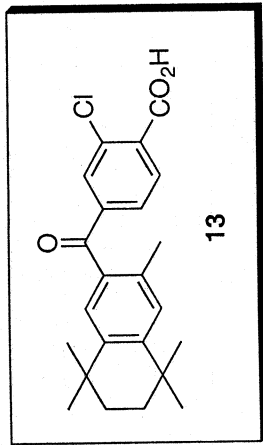
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 EXPNO 5
 PROCNO 1
 Date_ 20120419
 Time_ 22.12
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 64
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.9 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.50 dB
 PL1W 12.76071072 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300101 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1.221
 1.322
 1.702
 2.374

7.234
 7.260
 7.276
 7.739
 7.743
 7.759
 7.763
 7.924
 7.928
 8.080
 8.100

11.335



S4

CWII-155



NAME CWII-155
 EXPNO 6
 PROCNO 1
 Date_ 20120419
 Time_ 22.42
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 440
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQC 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.3 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.10 dB
 PL1W 60.29227829 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127736 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

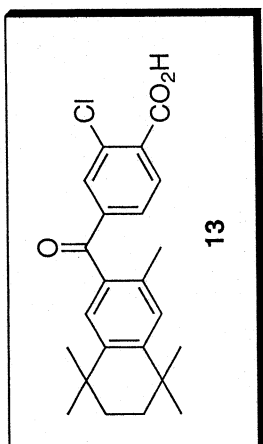
20.13
 31.56
 31.67
 33.90
 34.41
 34.76
 34.82

76.68
 77.00
 77.32

127.94
 128.75
 129.72
 131.57
 132.22
 132.73
 133.75
 134.83
 134.94
 142.10
 142.69
 149.01

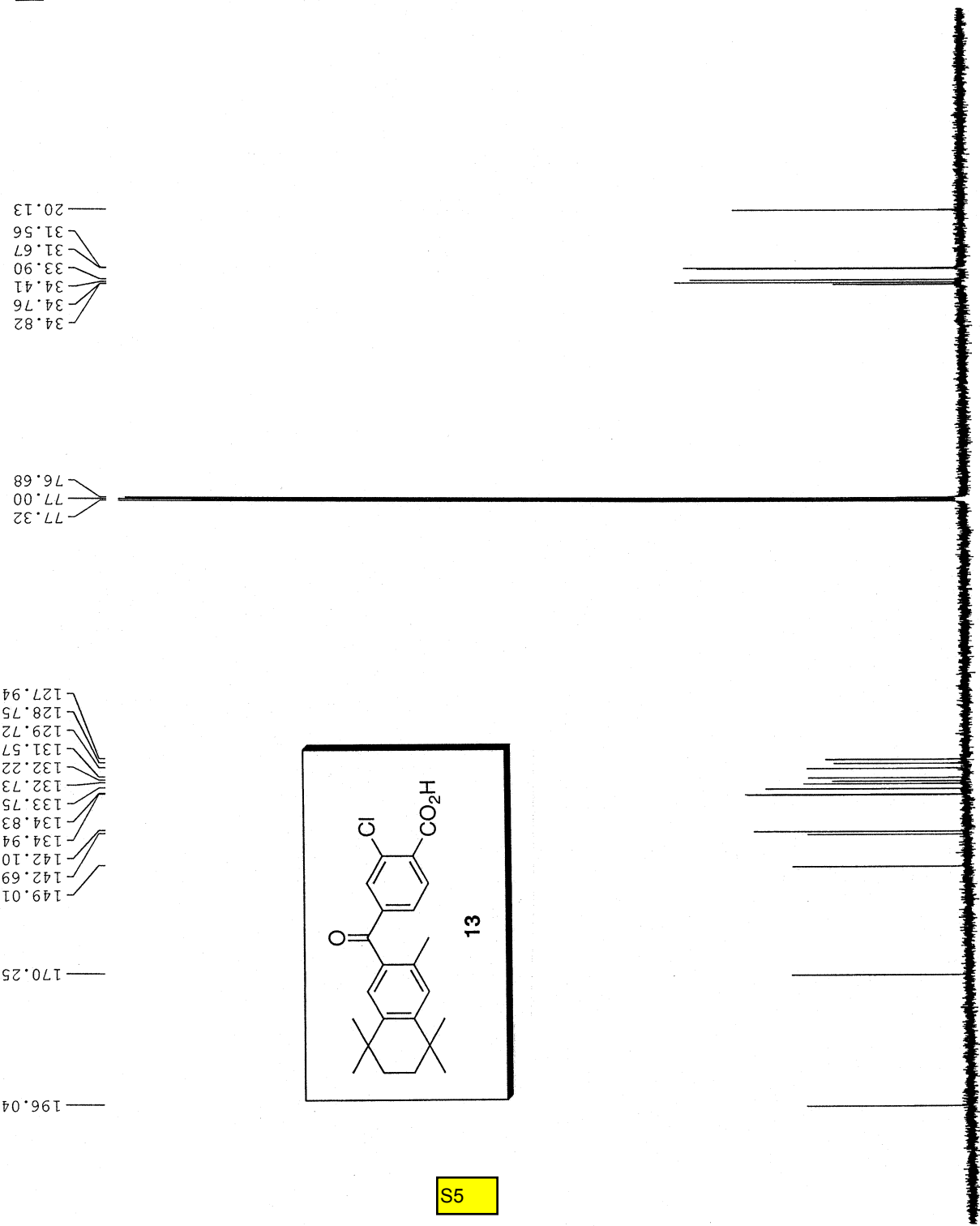
170.25

196.04



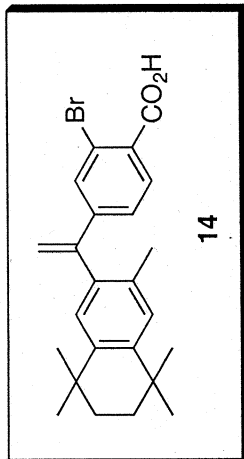
S5

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



CWII-151

7.960
7.940
7.683
7.679
7.260
7.256
7.240
7.236
7.109
7.097
5.831
5.829
5.382
5.380

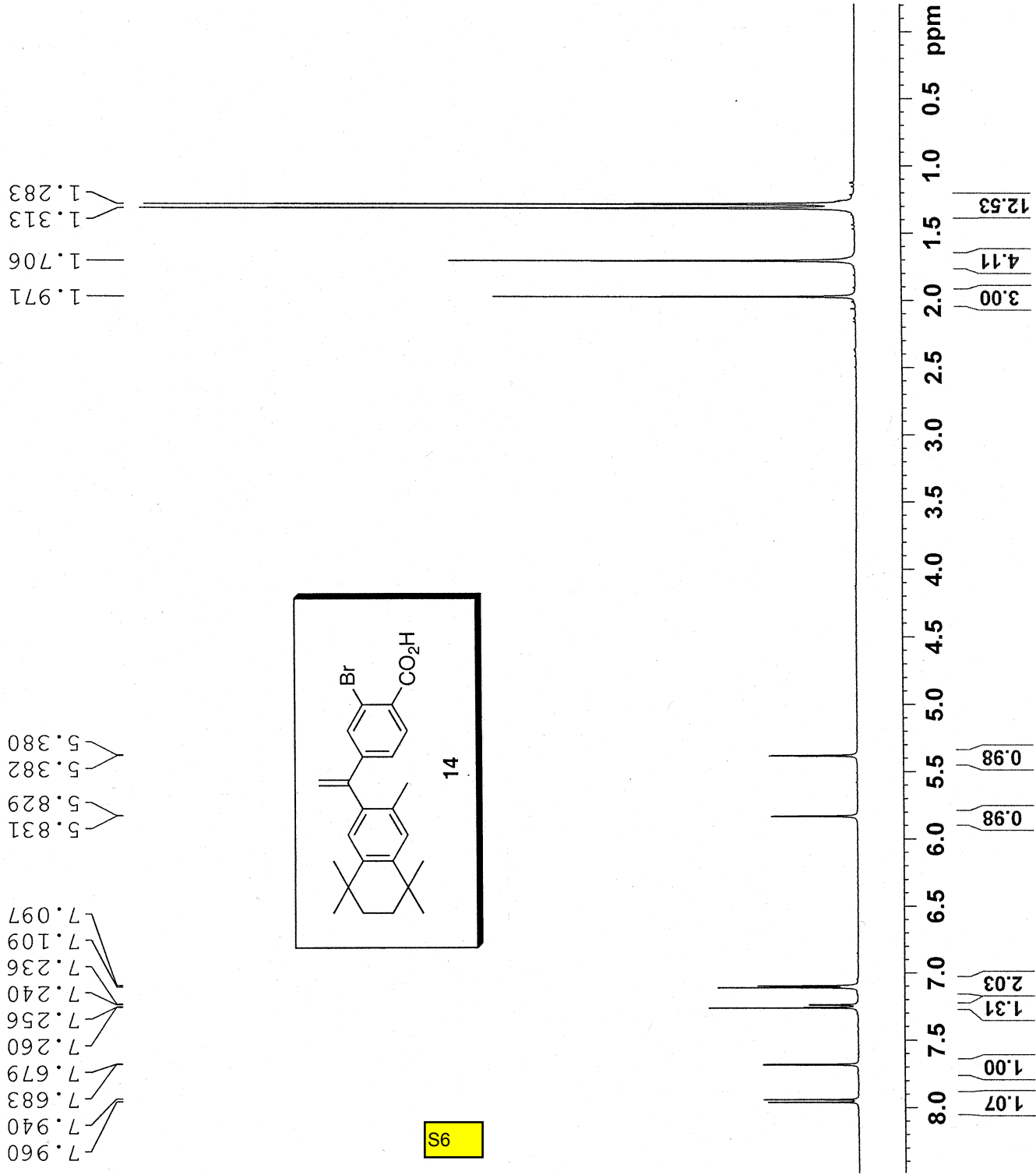


96



NAME CWII-151
 EXPNO 5
 PROCNO 1
 Date_ 20120419
 Time_ 17.33
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 65536
 SOLVENT CDCl3
 NS 64
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.9 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.50 dB
 PL1W 12.76071072 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300101 MHz
 EM
 WDW 0
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

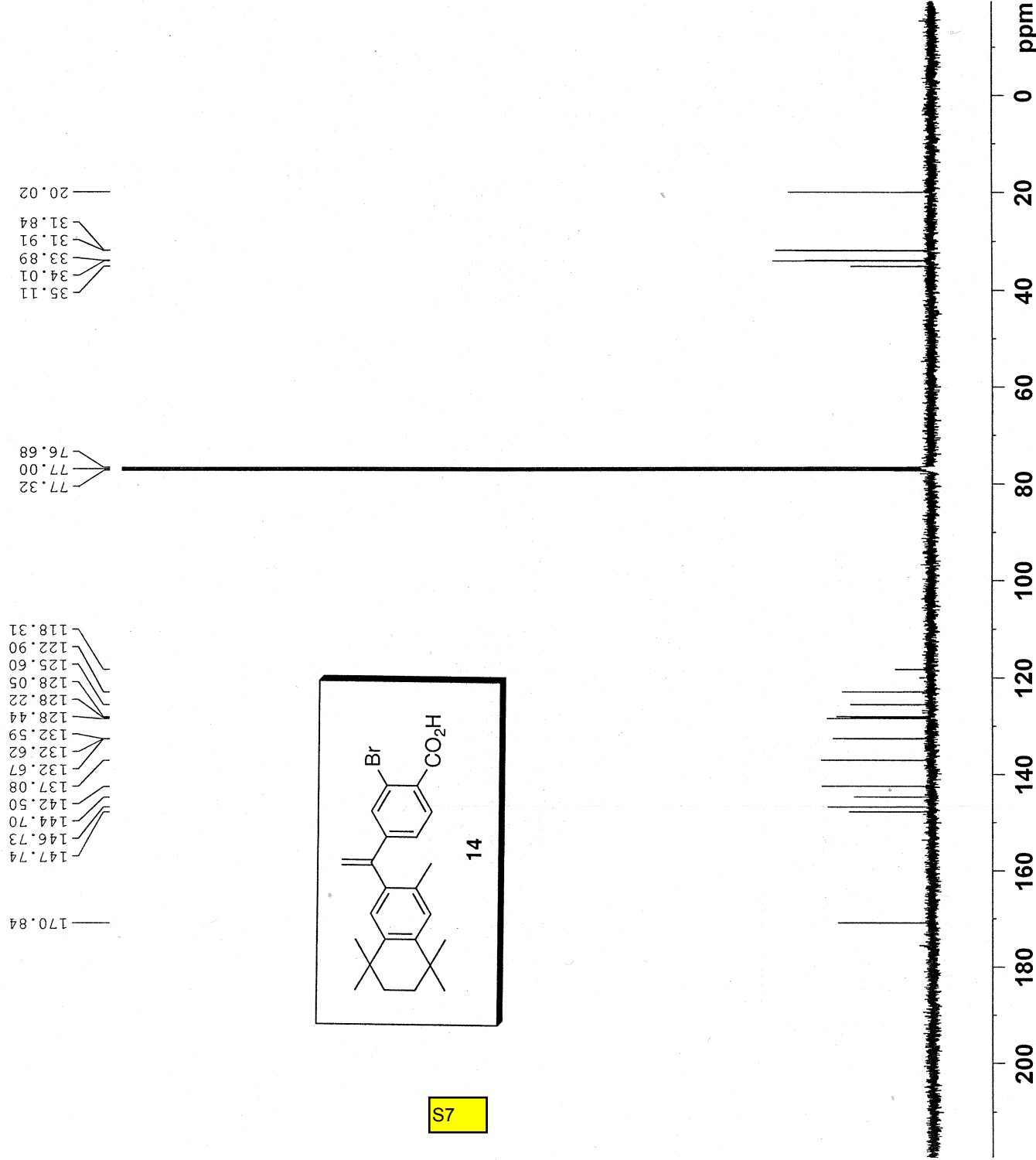




NAME CWII-151
 EXPNO 6
 PROCNO 1
 Date 20120419
 Time 18.00
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg1g30
 TD 65536
 SOLVENT CDCl3
 NS 422
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.4 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.10 dB
 PL1W 60.29227829 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127729 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



S7

CWII-157



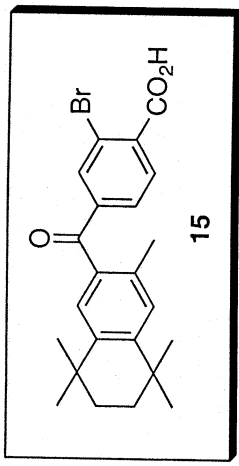
NAME CWII-157
 EXPNO 3
 PROCNO 1
 Date_ 20120420
 Time_ 17.52
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 64
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.6 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.50 dB
 PL1W 12.76071072 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300101 MHz
 EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

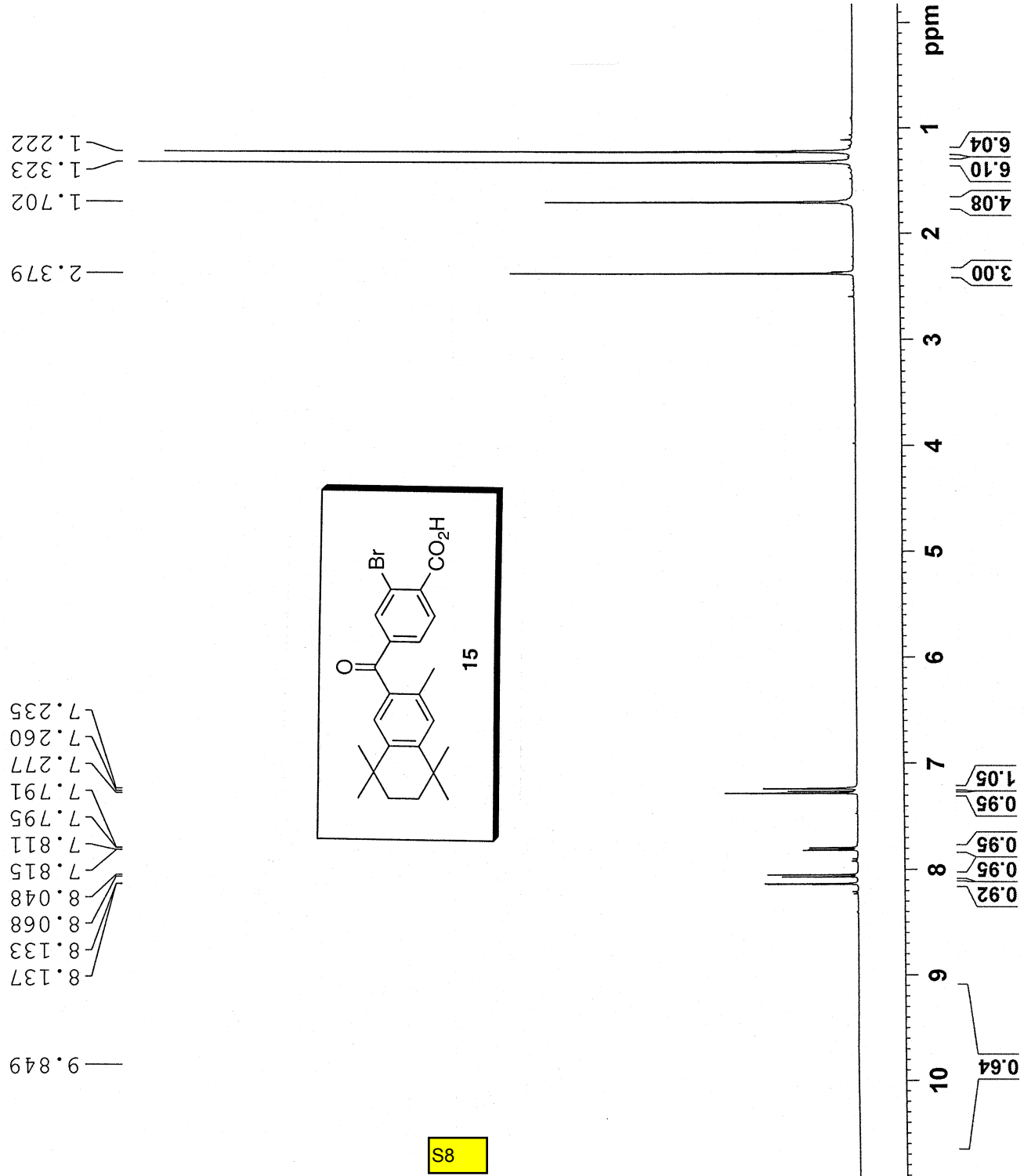
2.379
 1.702
 1.323
 1.222

8.137
 8.133
 8.068
 8.048
 7.815
 7.811
 7.795
 7.791
 7.277
 7.260
 7.235

9.849



S8



CWII-157



NAME CWII-157
 EXPNO 4
 PROCNO 1
 Date_ 20120420
 Time_ 18.14
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 328
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.1 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.10 dB
 PL1W 60.29227829 W
 SF01 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127736 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

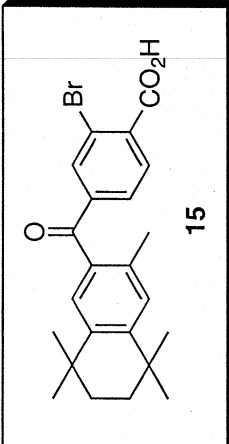
20.15
 31.56
 31.68
 33.90
 34.42
 34.76
 34.82

76.68
 77.00
 77.32

122.41
 128.57
 128.85
 129.74
 132.08
 133.61
 133.69
 135.01
 136.08
 142.09
 142.50
 149.03

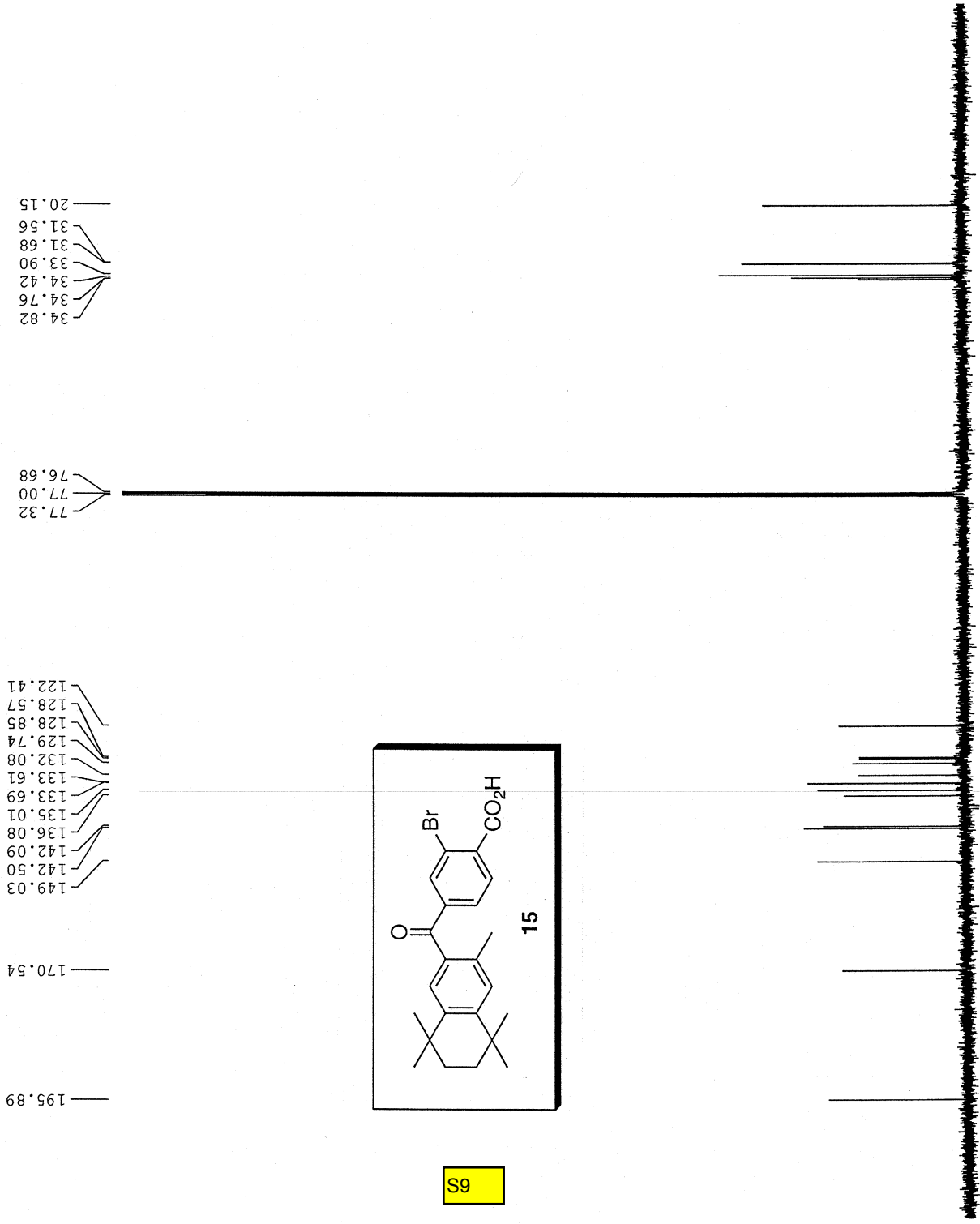
170.54

195.89



69

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



CWII-153



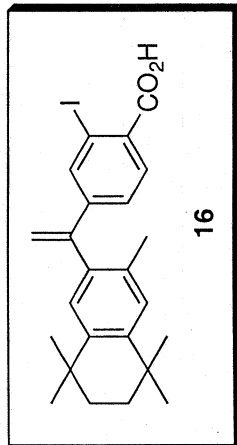
NAME CWII-153
 EXPNO 4
 PROCNO 1
 Date_ 20120423
 Time 17.34
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 128
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 293.0 K
 D1 1.0000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.50 dB
 PL1W 12.76071072 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300101 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

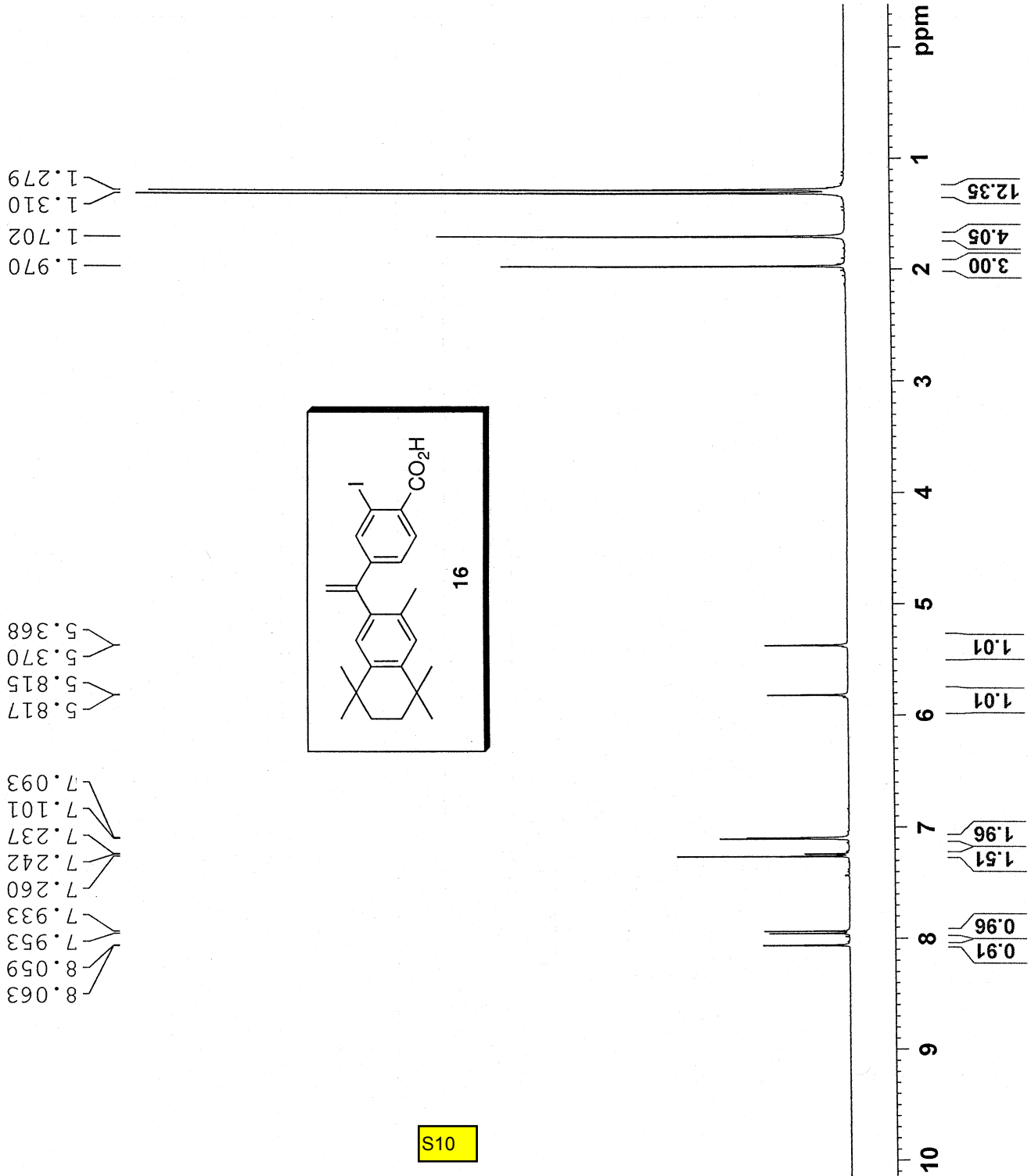
1.970
 1.702
 1.310
 1.279

5.817
 5.815
 5.370
 5.368

8.063
 8.059
 7.953
 7.933
 7.260
 7.242
 7.237
 7.101
 7.093



S10



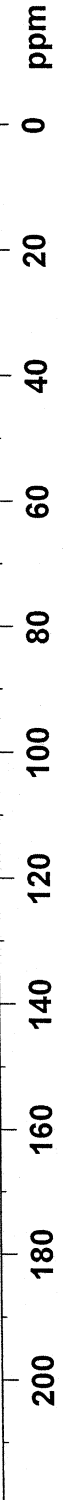
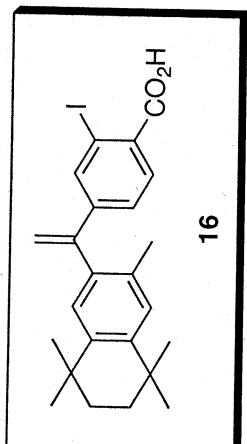


NAME CWII-153
 EXPNO 5
 PROCNO 1
 Date_ 20120423
 Time 18.06
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDC13
 NS 507
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.3 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.10 dB
 PL1W 60.29227829 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PLI2 17.28 dB
 PL2W 21.67079544 W
 PLI2W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127722 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

170.72
 147.56
 146.57
 144.67
 142.48
 139.77
 137.10
 132.60
 132.09
 131.25
 128.22
 128.05
 126.49
 118.29
 95.10
 77.32
 77.00
 76.68
 35.11
 34.01
 33.89
 31.91
 31.85
 20.06



CWII-159

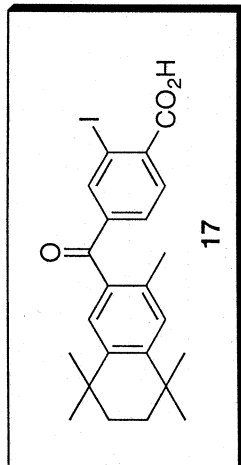


NAME CWII-159
 EXPNO 6
 PROCNO 1
 Date_ 20120419
 Time_ 22.52
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 64
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 293.1 K
 D1 1.00000000 sec
 TD0 1

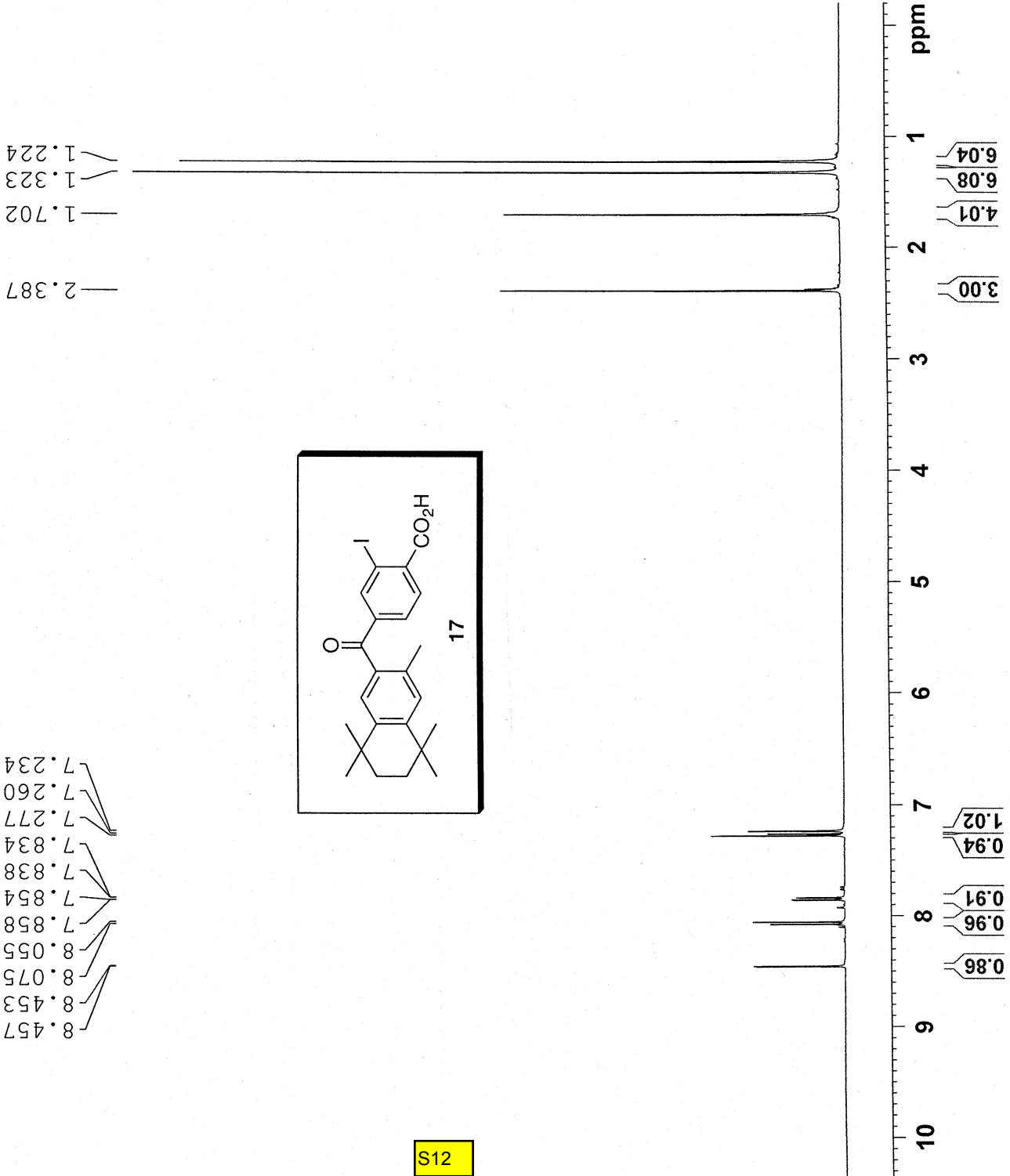
===== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.50 dB
 PL1W 12.76071072 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300101 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

8.457
 8.453
 8.075
 8.055
 7.858
 7.854
 7.838
 7.834
 7.277
 7.260
 7.234

2.387
 1.702
 1.323
 1.224



S12





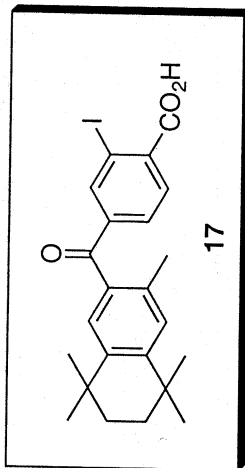
CWII-159

195.74
170.76
149.03
143.14
142.25
142.06
136.43
135.12
133.62
131.64
129.76
129.40
129.00
34.82
34.76
34.42
33.90
31.70
31.55
20.18

NAME CWII-159
EXPNO 7
PROCNO 1
Date_ 20120419
Time_ 23.05
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgig30
TD 65536
SOLVENT CDCl3
NS 163
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 293.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

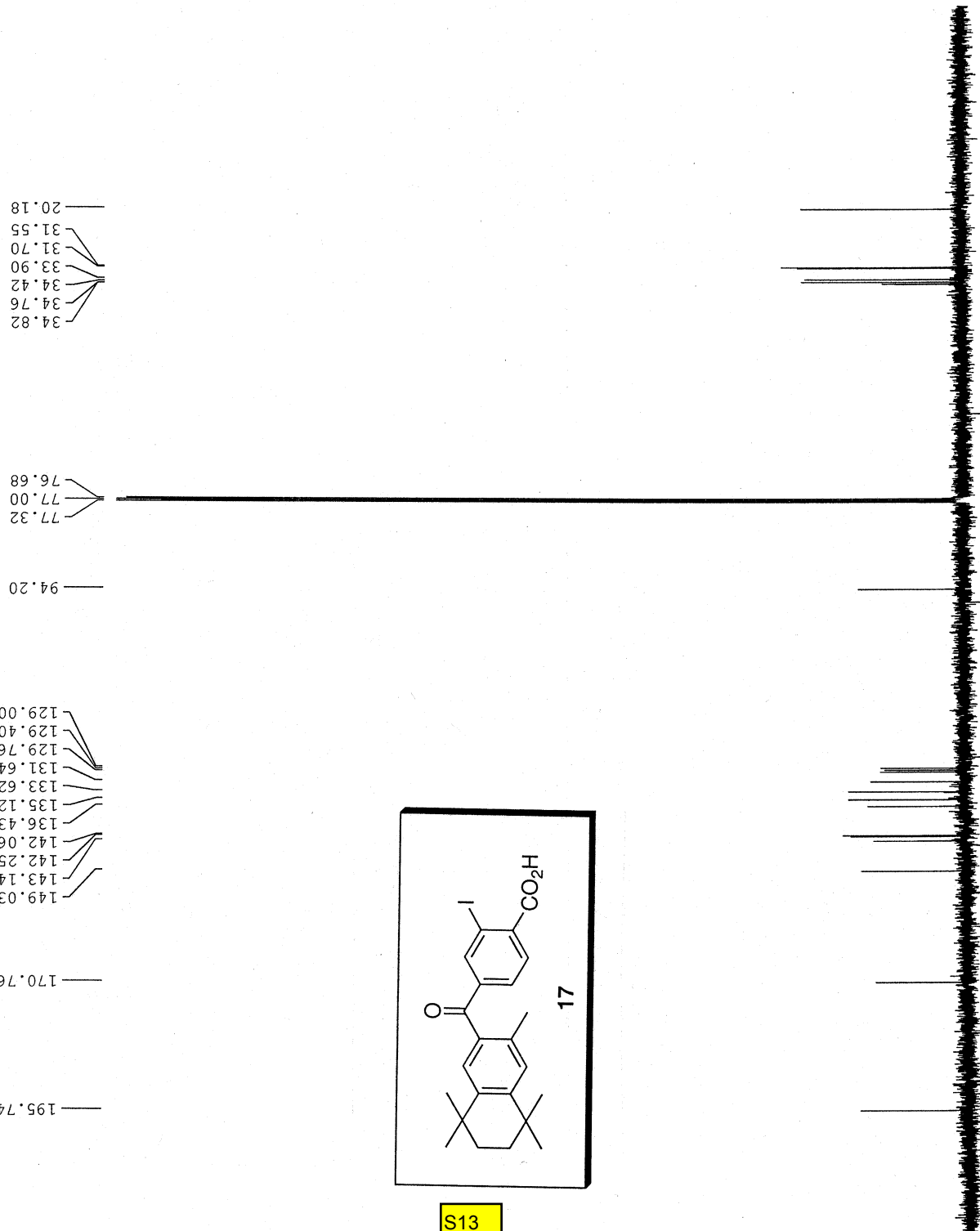
==== CHANNEL f1 =====
NUC1 13C
P1 8.50 usec
PL1 -2.10 dB
PL1W 60.29227829 W
SFO1 100.6228298 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.80 dB
PL12 17.28 dB
PL2W 21.67079544 W
PL12W 0.26783961 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127736 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



S13

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



CWIII-087

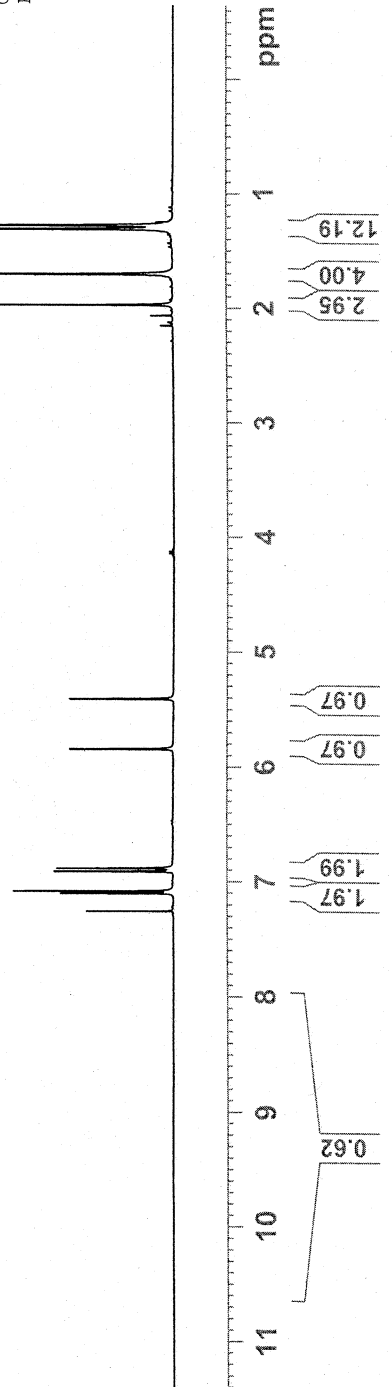
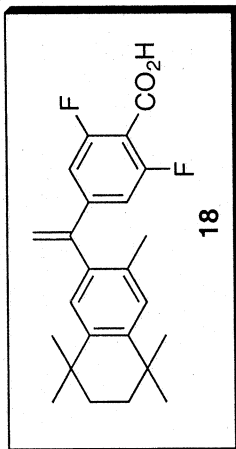


NAME CWIII-087
 EXPNO 1
 PROCNO 1
 Date_ 20100827
 Time_ 15.06
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.1125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.0 K
 D1 1.00000000 sec
 TDO 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300106 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1.279
 1.312
 1.705
 1.974

5.413
 5.845
 5.847
 6.886
 6.889
 6.914
 7.086
 7.106
 7.260

9.230



CWIII-087



NAME CWIII-087
 EXPNO 2
 PROCNO 1
 Date_ 20100827
 Time_ 15.18
 INSTRUM spect
 PROBHD 5 mm PABEO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 292.2 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TDO 1

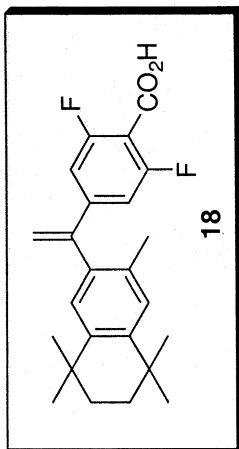
==== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127736 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

19.83
 31.83
 31.90
 33.88
 34.02
 35.05
 35.08

76.68
 76.99
 77.31

107.51
 107.67
 107.83
 110.14
 110.37
 110.40
 118.71
 118.71
 128.01
 128.28
 132.56
 136.49
 142.64
 144.98
 147.26
 147.71
 147.81
 147.91
 160.23
 160.29
 162.80
 162.86
 166.69



CWIII-089



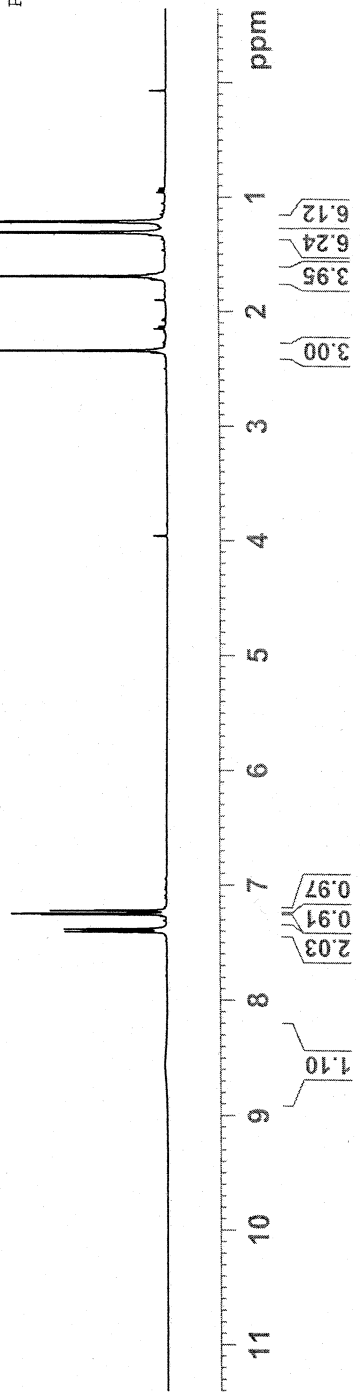
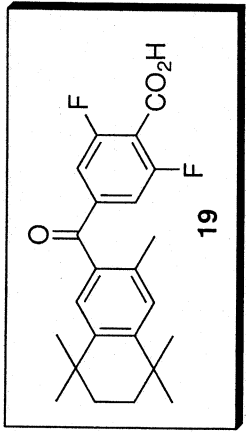
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 EXPNO 1
 PROCNO 1
 Date_ 20110321
 Time_ 16.47
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCI3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 293.4 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300106 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

2.345
 1.696
 1.313
 1.218

7.407
 7.386
 7.260
 7.251
 7.225

8.548



CWIII-089



NAME CWIII-089
 EXPNO 2
 PROCNO 1
 Date_ 20110321
 Time_ 17.07
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.7 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127722 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

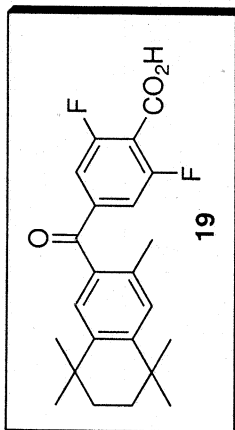
20.03
 31.56
 31.68
 33.92
 34.44
 34.74
 34.79

76.68
 77.00
 77.32

113.44
 113.71

128.39
 129.79
 133.27
 134.85
 142.24
 143.27
 149.23
 159.44
 159.49
 162.02
 162.08
 165.69

194.70



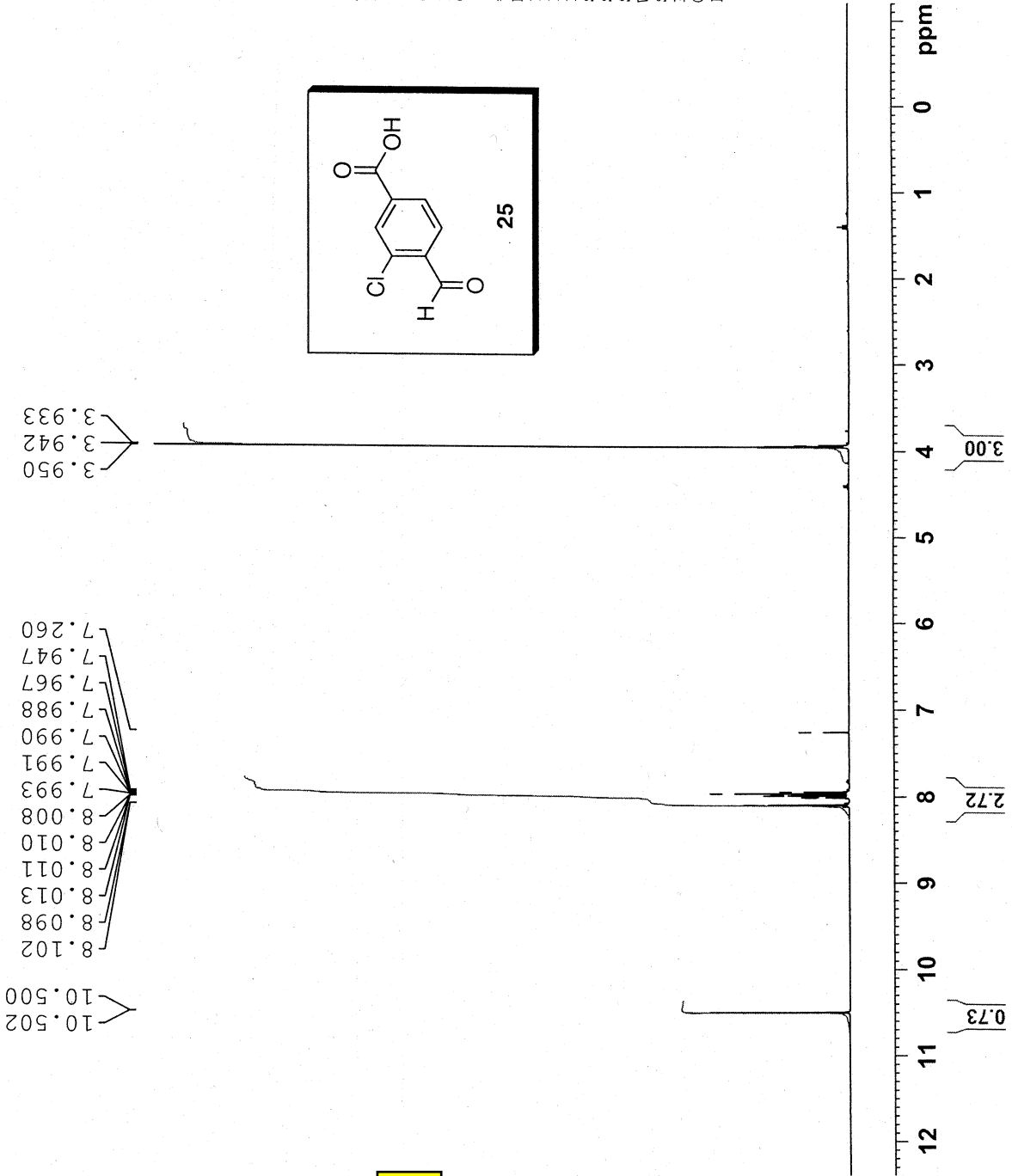
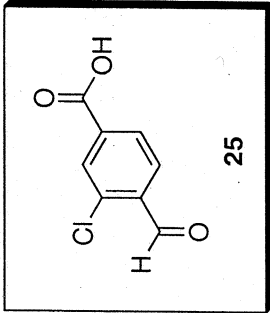
ppm



CWII-085H

NAME CWII-085
EXPNO 2
PROCNO 1
Date_ 20090328
Time_ 19.17
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 4
DW 60.800 usec
DE 6.50 usec
TE 298.2 K
D1 1.00000000 sec
TD0 1

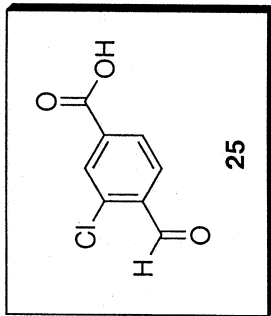
==== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
PL1 -1.80 dB
PL1W 21.67079544 W
SF01 400.1324710 MHz
SI 32768
SF 400.1300104 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



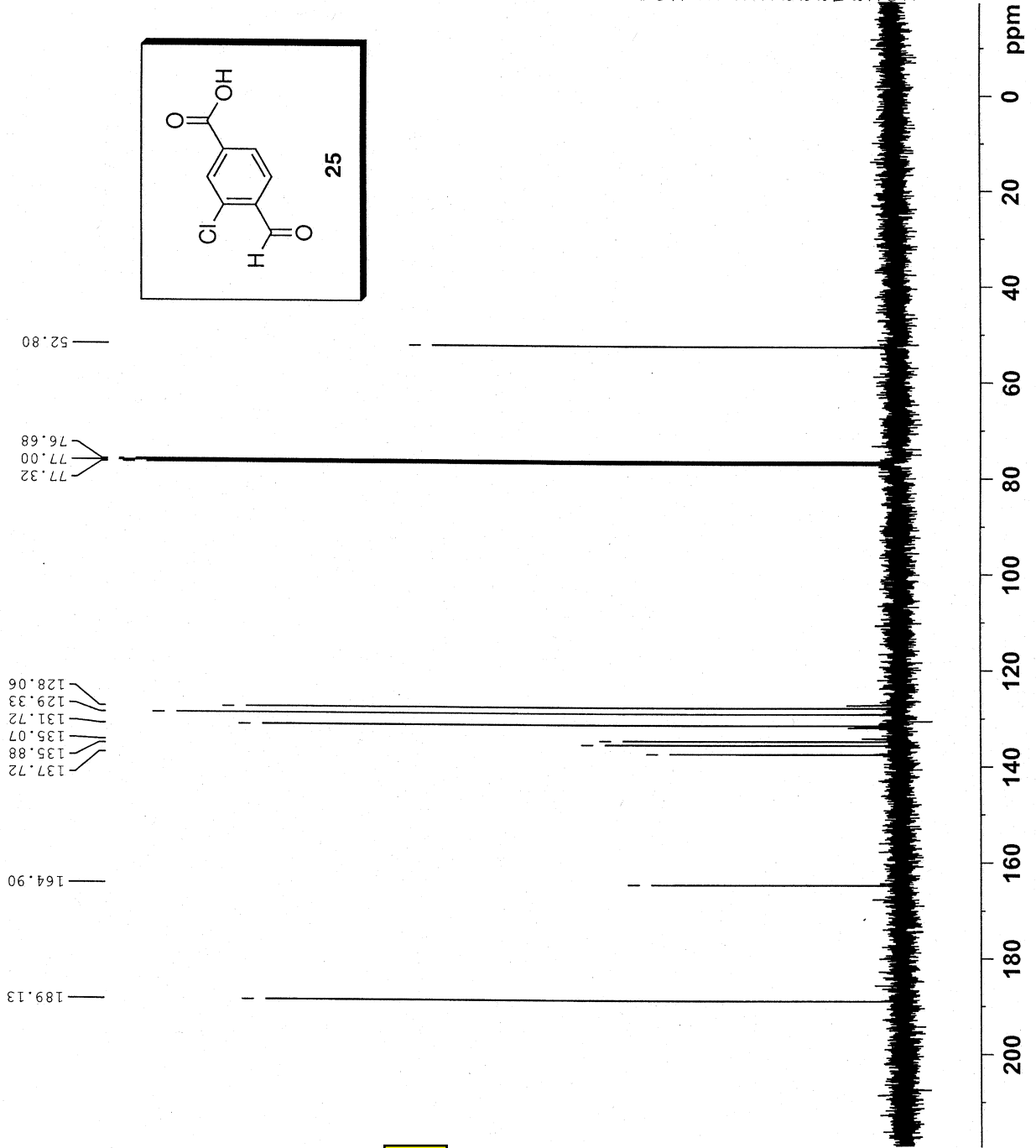


CWII-085
NAME
EXPNO 3
PROCNO 1
Date_ 20090328
Time_ 19.28
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgig30
TD 65536
SOLVENT CDCl3
NS 64
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 298.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 8.50 usec
PL1 -1.50 dB
PL1W 52.51238251 W
SF01 100.6228298 MHz
==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.80 dB
PL12 17.28 dB
PL2W 21.67079544 W
PL12W 0.26783961 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127729 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



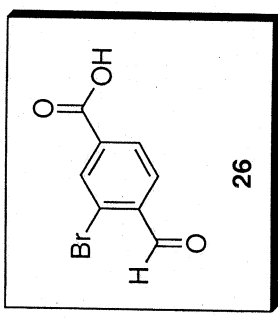
CWII-0085C





CWII-107
NAME
EXPNO 2
PROCNO 1
Date_ 20090319
Time_ 11.24
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 4
DW 60.800 usec
DE 6.50 usec
TE 293.4 K
D1 1.00000000 sec
TDO 1

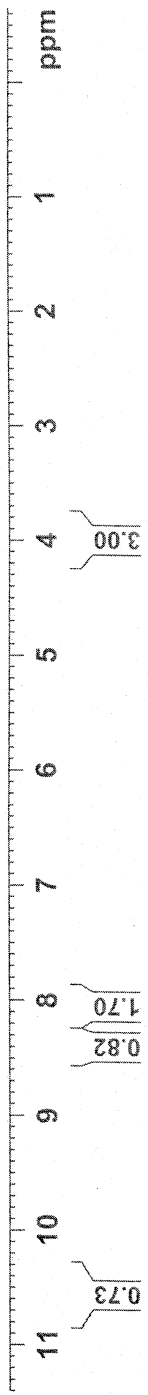
==== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
PL1 -1.80 dB
PL1W 21.67079544 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300104 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



CWII-107H

10.392
8.303
8.300
8.060
8.058
8.040
8.038
7.960
7.939
7.260

3.954

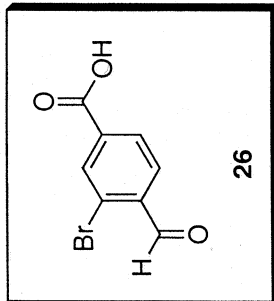




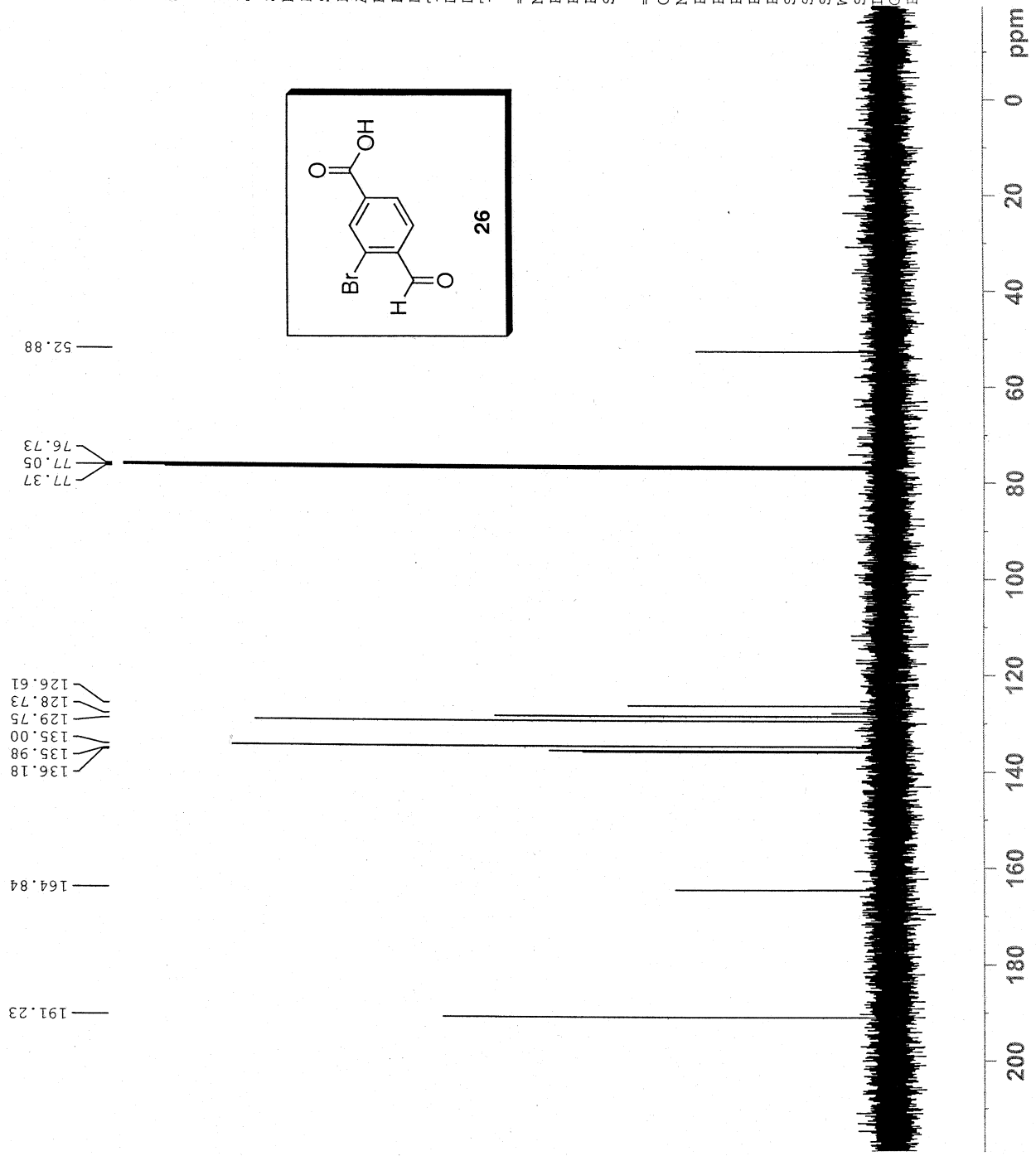
NAME CWII-107
 EXPNO 3
 PROCNO 1
 Date 20090319
 Time 11.44
 INSTRUM spect
 PROBHD 5 mm PABEO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 68
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.363198 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.4 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127690 MHz
 WDW no
 SSB 0
 TB 0.00 Hz
 GB 0
 PC 1.40



CWII-107C



CWIII-071 ppt



NAME CWIII-071
 EXPNO 4
 PROCNO 1
 Date_ 20091130
 Time_ 15.00
 INSTRUM spect
 PROBHD 5 mm PABEO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8223.685 Hz
 *FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 293.2 K
 D1 1.00000000 sec
 TD0 1

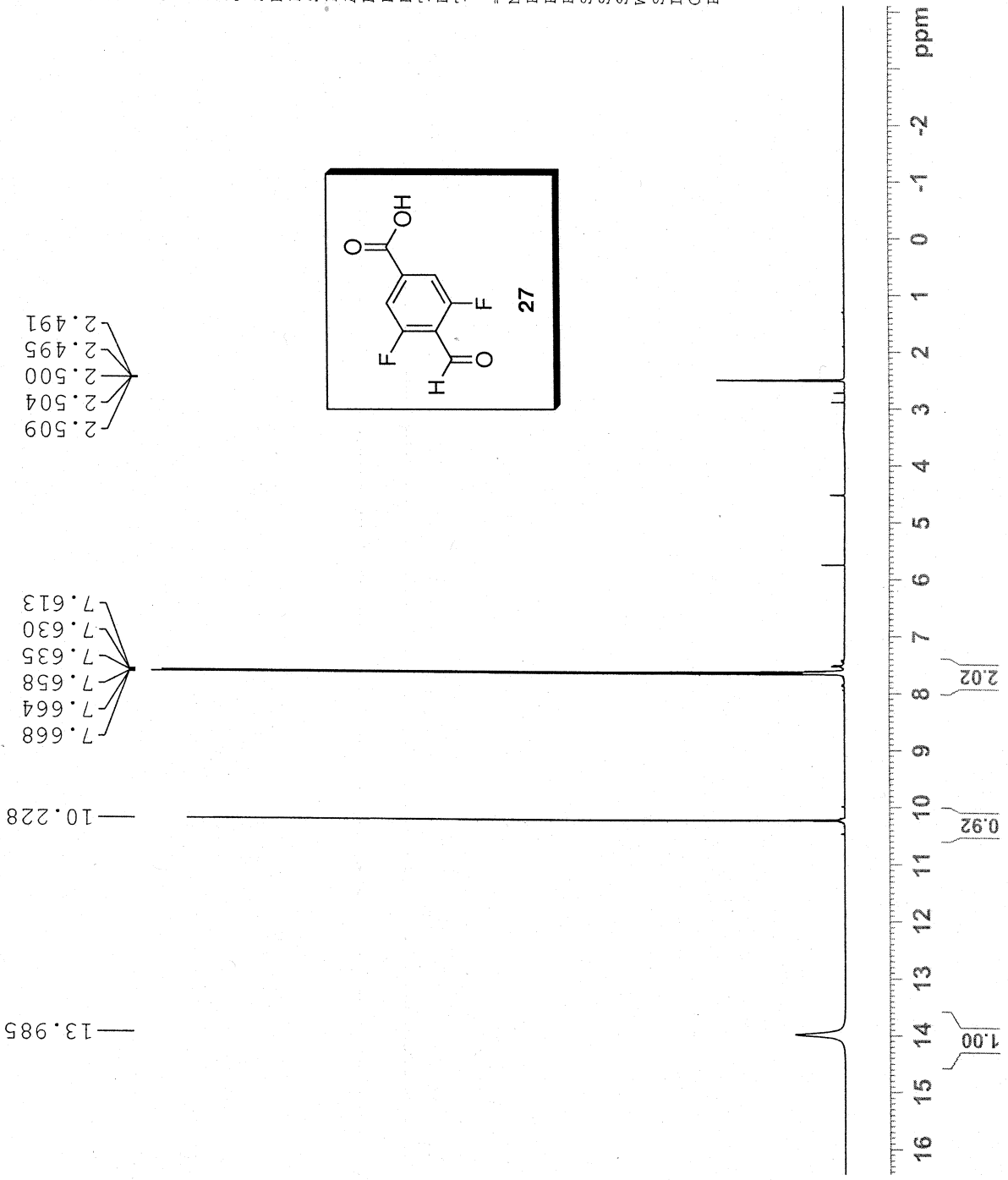
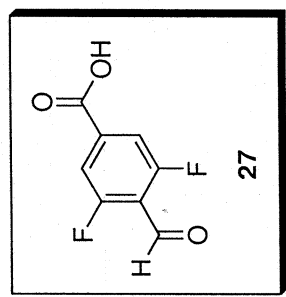
===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300044 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

2.509
 2.504
 2.500
 2.495
 2.491

7.668
 7.664
 7.658
 7.635
 7.630
 7.613

10.228

13.985



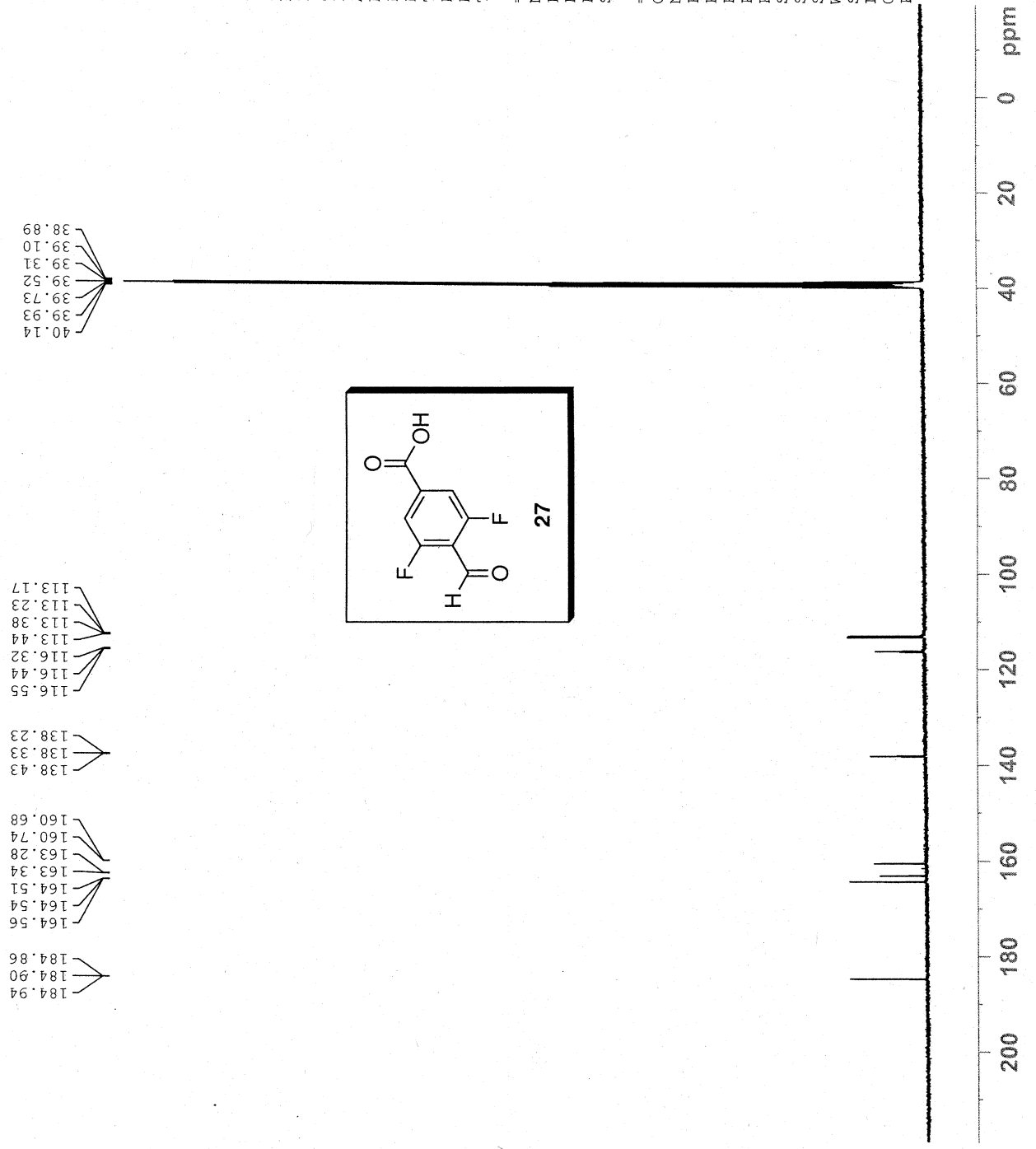
CWIII-071 ppt



NAME CWIII-071
 EXPNO 5
 PROCNO 1
 Date_ 20091130
 Time_ 16.04
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.5 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6128098 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



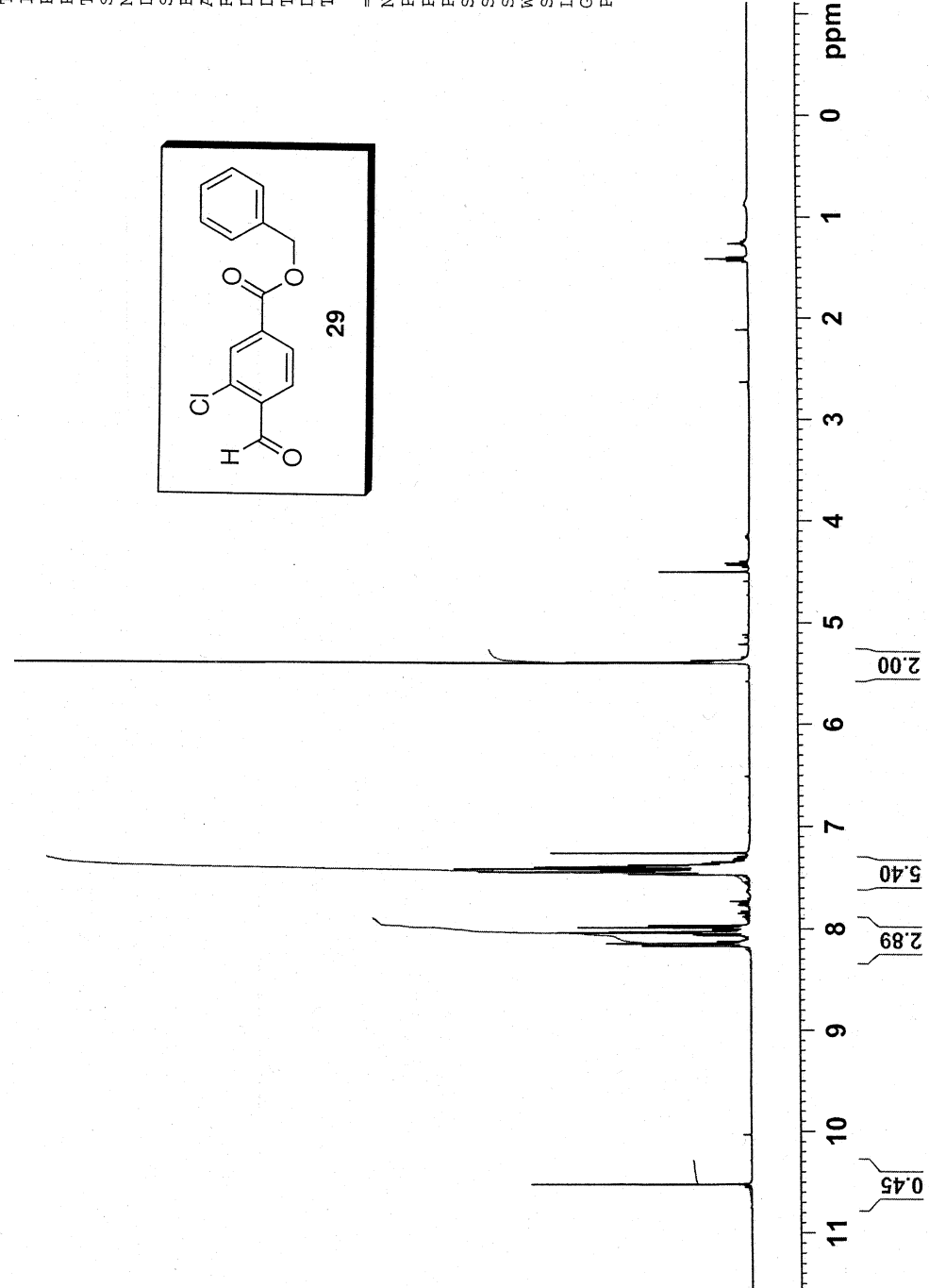
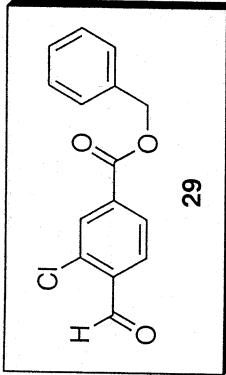


CWII-087
NAME CWII-087
EXPNO 2
PROCNO 1
Date_ 20090328
Time_ 19.39
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 4
DW 60.800 usec
DE 6.50 usec
TE 298.2 K
D1 1.0000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
PL1 -1.80 dB
PL1W 21.67079544 W
SF01 400.1324710 MHz
SI 32768
SF 400.1300106 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

CWII-087H

10.518
8.168
8.166
8.165
8.146
8.142
8.039
8.036
8.030
8.026
7.985
7.965
7.464
7.448
7.445
7.436
7.432
7.415
7.411
7.401
7.397
7.392
7.385
7.375
7.260
5.396

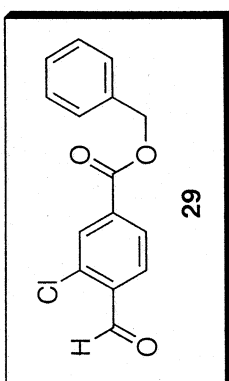
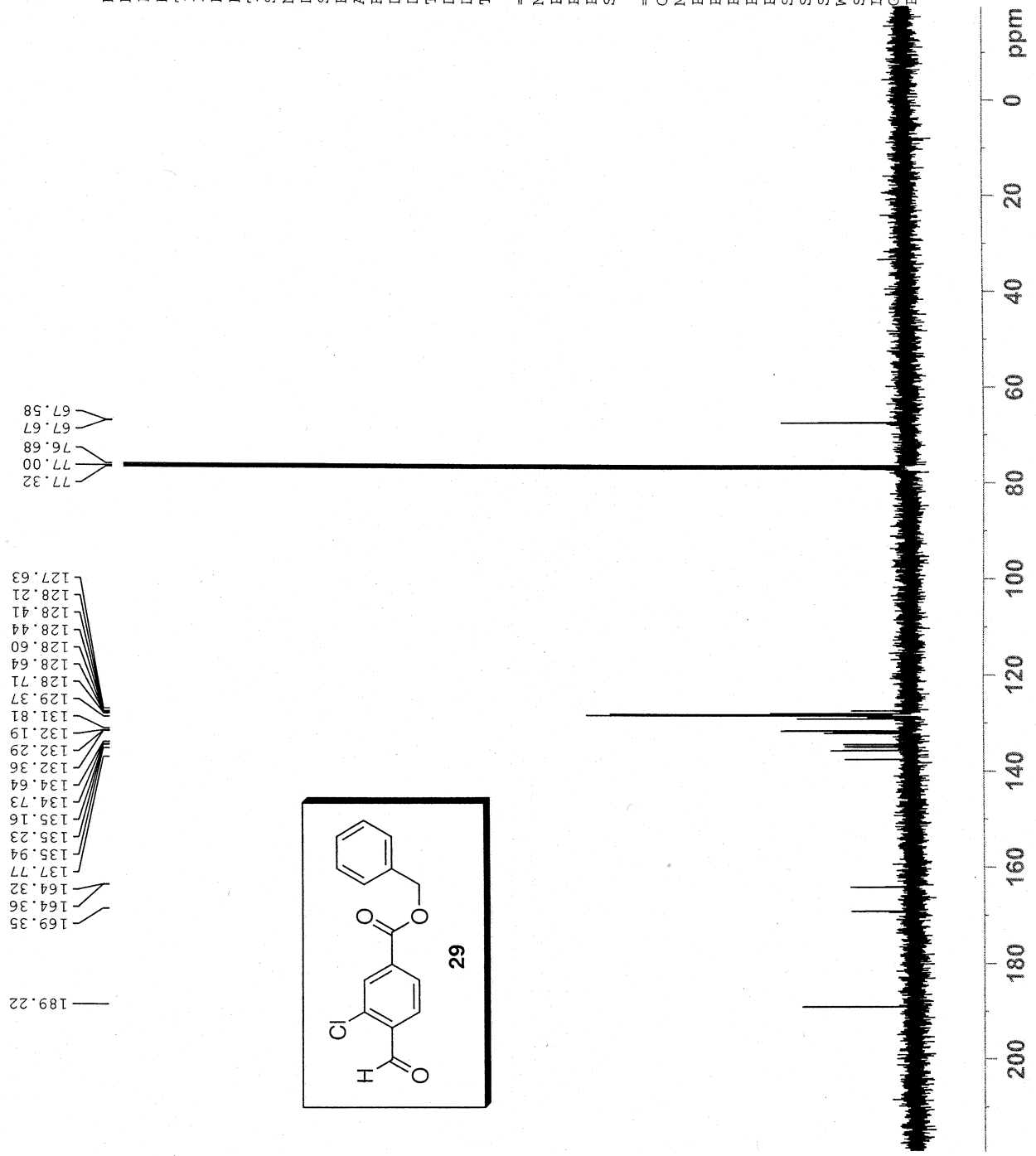


CWII-087C



NAME CWII-087
 EXPNO 3
 PROCNO 1
 Date_ 20090328
 Time_ 19.44
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDC13
 NS 64
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 298.3 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127736 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 FC 1.40



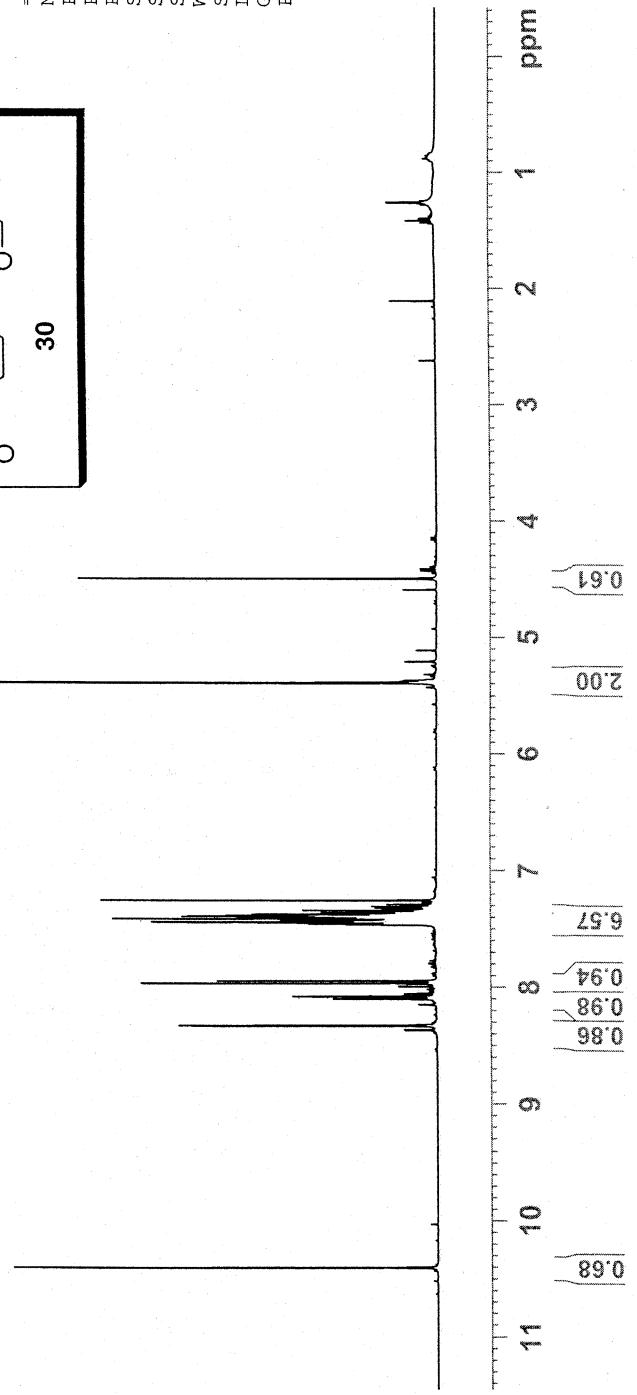
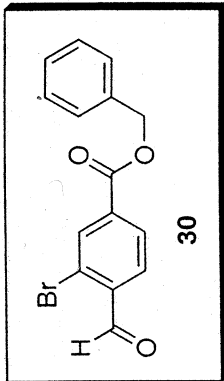
CWII-109H



NAME CWII-109
 EXPNO 2
 PROCNO 1
 Date_ 20090327
 Time_ 19.59
 INSTRUM spect
 PROBD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 298.0 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300106 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

4.502
 5.394
 7.260
 7.344
 7.362
 7.365
 7.376
 7.385
 7.388
 7.392
 7.397
 7.402
 7.405
 7.411
 7.416
 7.418
 7.422
 7.432
 7.437
 7.444
 7.447
 7.464
 7.468
 7.948
 7.968
 8.078
 8.080
 8.082
 8.084
 8.098
 8.101
 8.102





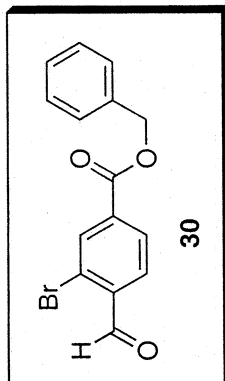
CWII-109
NAME
EXPNO 3
PROCNO 1
Date 20090327
Time 20.06
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg1930
TD 65536
SOLVENT CDCl3
NS 64
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 8.50 usec
PL1 -1.50 dB
PL1W 52.51238251 W
SFO1 100.6228298 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.80 dB
PL12 17.28 dB
PL2W 21.67079544 W
PL12W 0.26783961 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127729 MHz
WDM EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

CWII-109C

191.17
164.19
136.25
136.00
135.19
135.03
129.74
129.00
128.82
128.77
128.72
128.64
128.46
128.39
126.57
77.32
77.00
76.68
67.67
33.53

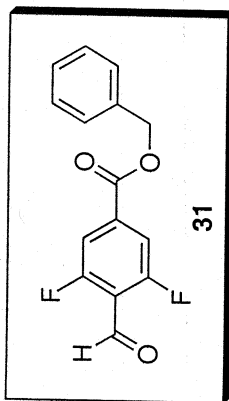


CWIII-073



NAME CWIII-073
 EXPNO 4
 PROCNO 1
 Date 20120423
 Time 21.26
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 2048
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.8 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.50 dB
 PLLW 12.76071072 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300101 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



S28

CWIII-073

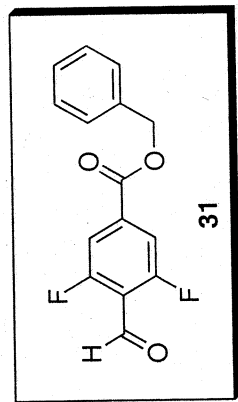


NAME CWIII-073
 EXPNO 2
 PROCNO 1
 Date_ 20091202
 Time_ 16.19
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.4 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TDO 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SF01 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SF02 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

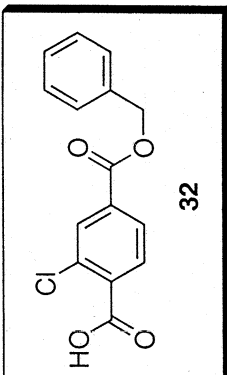
186.24
 186.21
 184.04
 184.00
 184.00
 183.96
 164.05
 164.00
 163.18
 163.15
 163.12
 161.43
 161.37
 137.40
 137.29
 137.19
 134.81
 134.66
 128.78
 128.76
 128.71
 128.71
 128.70
 128.51
 128.41
 116.89
 116.78
 116.67
 113.81
 113.78
 113.75
 113.60
 113.57
 113.54
 113.03
 107.91
 107.66
 77.32
 77.00
 76.68
 68.42
 68.03





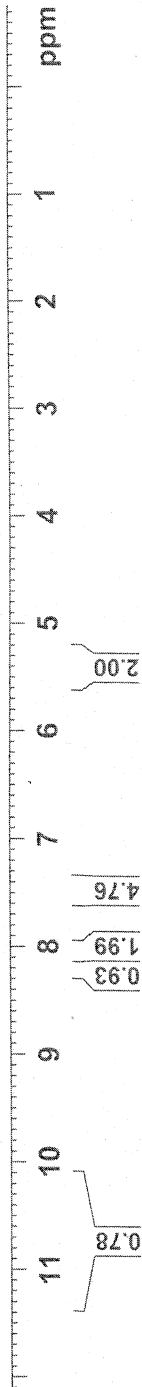
CWII-093H

10.706
 8.174
 8.171
 8.068
 8.048
 8.036
 8.033
 8.016
 8.012
 7.471
 7.467
 7.462
 7.451
 7.447
 7.442
 7.438
 7.433
 7.428
 7.423
 7.417
 7.413
 7.403
 7.398
 7.392
 7.388
 7.384
 7.376
 7.260
 5.399



NAME CWII-093
 EXPNO 2
 PROCNO 1
 Date_ 20090507
 Time_ 20.04
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 295.1 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300106 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 FC 1.00



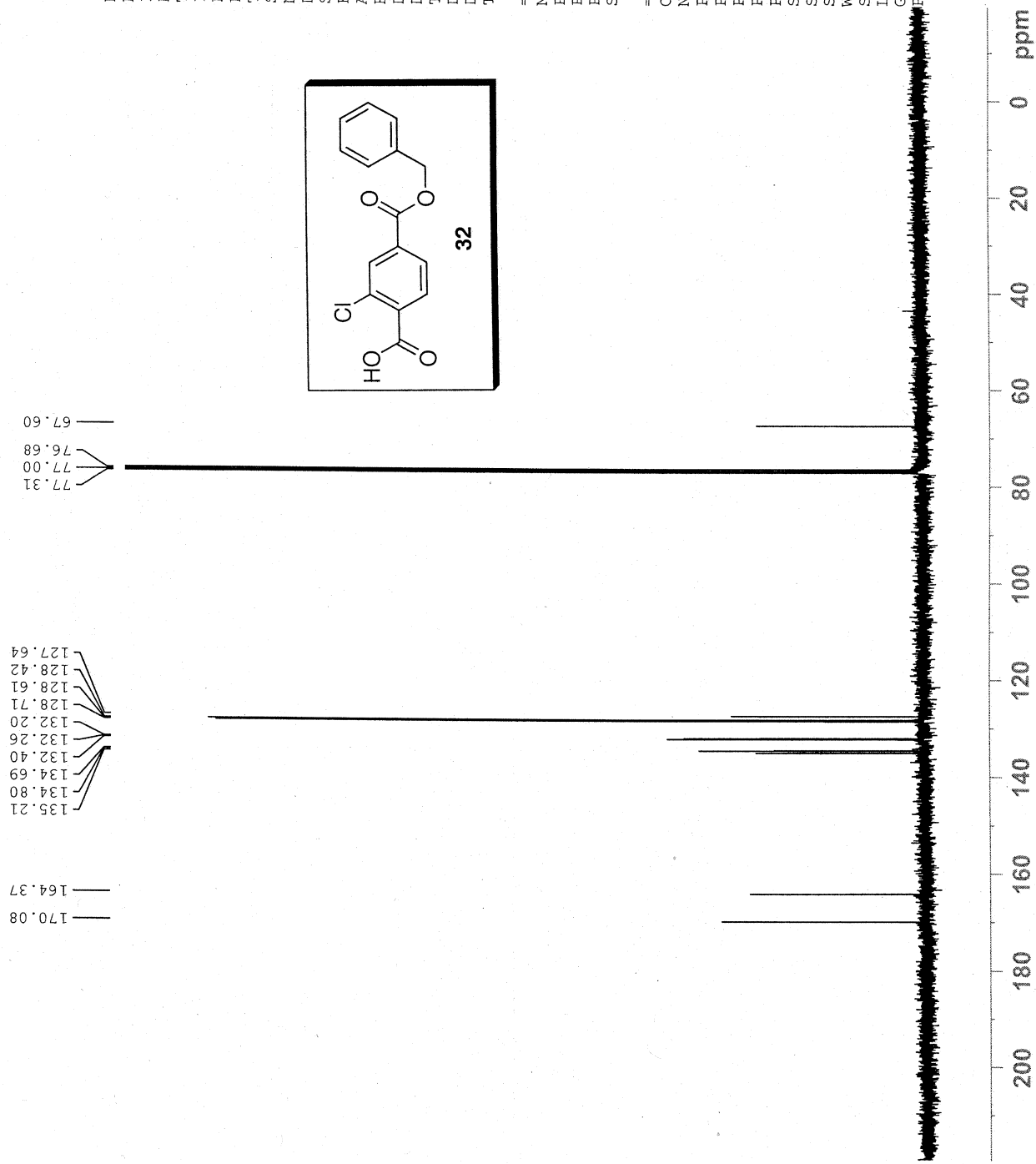
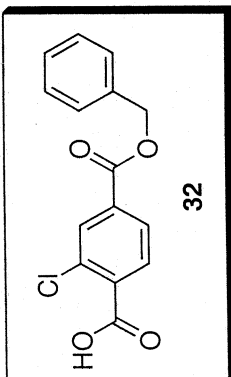
CWII-093C



CWII-093
 NAME
 EXNO 3
 PROCNO 1
 Date 20090507
 Time_ 20.14
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDC13
 NS 178
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 295.4 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

=====
 CHANNEL f1
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

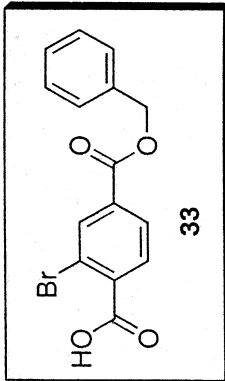
=====
 CHANNEL f2
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





CWII-113
NAME
EXPNO 1
PROCNO 1
Date 20090717
Time 13.16
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 4
DW 60.800 usec
DE 6.50 usec
TE 292.0 K
DI 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
PL1 -1.80 dB
PL1W 21.67079544 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300111 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



CWII-113

8.379
8.375
8.088
8.085
8.068
8.064
8.026
8.006
7.470
7.465
7.460
7.449
7.445
7.437
7.432
7.427
7.422
7.416
7.412
7.402
7.397
7.392
7.387
7.375
7.260
5.394



CWII-113



NAME CWII-113
 EXPNO 2
 PROCNO 1
 Date 20090717
 Time 13.42
 INSTRUM spect
 PROBHD 5 mm PABBO BB
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 138
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 292.5 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

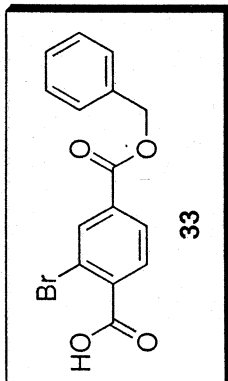
===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

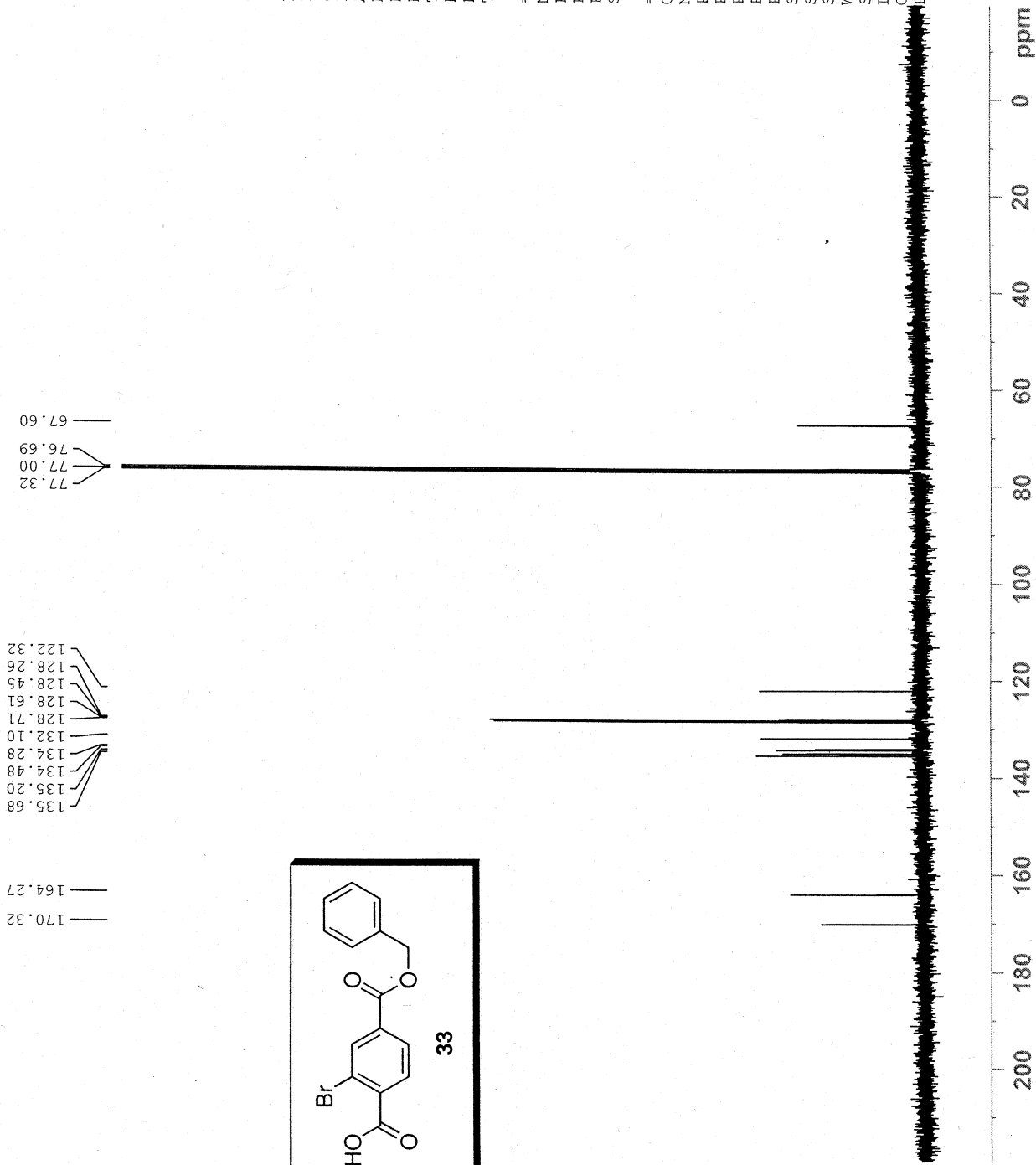
77.32
 77.00
 76.69
 67.60

135.68
 135.20
 134.48
 134.28
 132.10
 128.71
 128.61
 128.45
 128.26
 122.32

170.32
 164.27



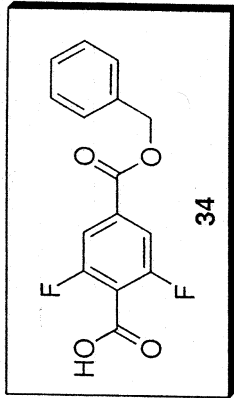
S33





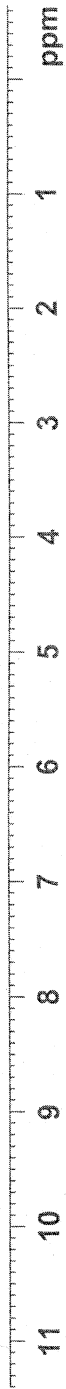
NAME CWIII-075
 EXPNO 3
 PROCNO 1
 Date_ 20110314
 Time_ 15.33
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 293.2 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300106 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



CWIII-075

9.826
 7.686
 7.666
 7.439
 7.432
 7.422
 7.417
 7.411
 7.401
 7.398
 7.396
 7.391
 7.380
 7.260
 5.391



CWIII-075



CWIII-075
 NAME
 EXPNO 4
 PROCNO 1
 Date_ 20110314
 Time_ 15.41
 INSTRUM spect
 PROBD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.6 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

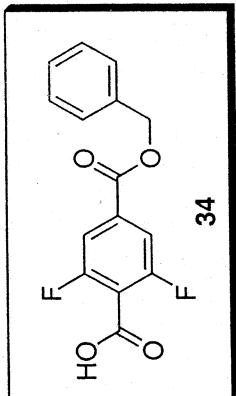
==== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SF01 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waitz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127736 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

77.31
77.20
77.00
76.68
67.96

135.61
135.51
135.41
134.89
128.76
128.47
113.60
113.57
113.41
113.35
113.32
113.24

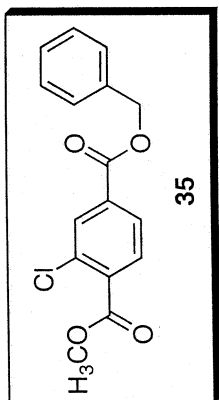
165.65
163.43
163.40
162.14
162.08
159.55
159.50





NAME CWII-097
 EXPNO 2
 PROCNO 1
 Date_ 20090507
 Time_ 14.46
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 295.6 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300106 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



CWII-097H

8.132
 8.128
 7.996
 7.992
 7.976
 7.971
 7.860
 7.840
 7.456
 7.440
 7.436
 7.429
 7.424
 7.408
 7.403
 7.388
 7.383
 7.366
 7.260
 5.379

3.954

ppm

3.00

1.93

4.58

0.97

0.98

0.92

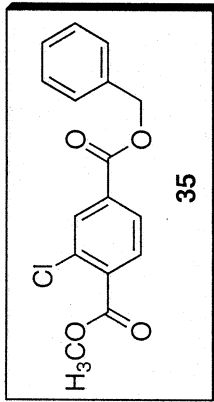
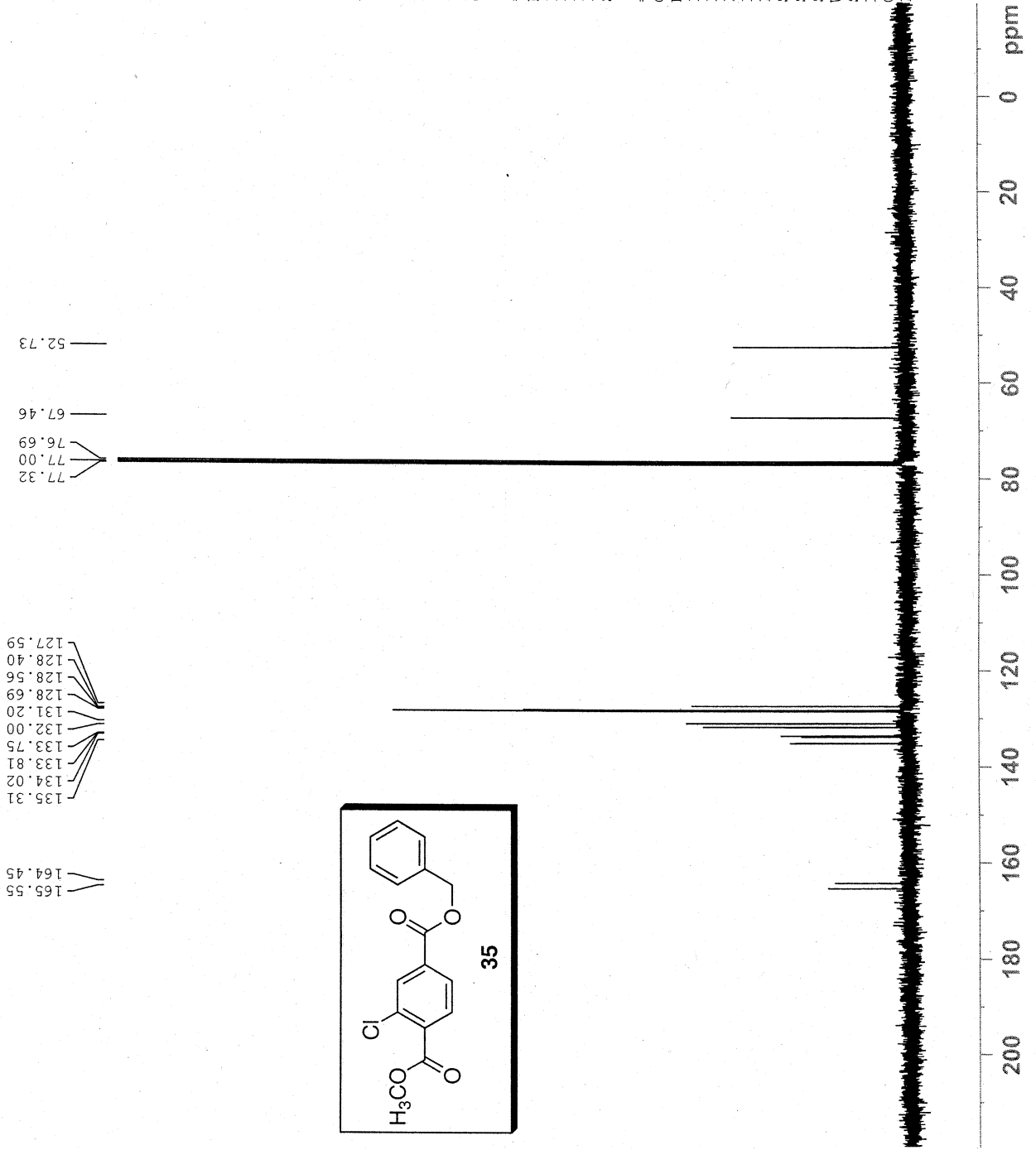
CWII-097C



NAME CWII-097
 EXPNO 3
 PROCNO 1
 Date 20090507
 Time 14.53
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 129
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 295.9 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PLLW 52.51238251 W
 SFO1 100.6228298 MHz

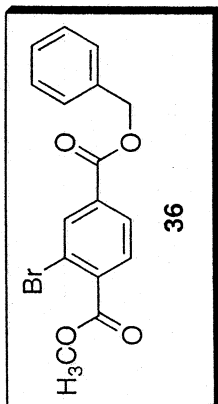
===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127729 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





NAME CWII-117
 EXPNO 2
 PROCNO 1
 Date 20090327
 Time_ 19.22
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 298.0 K
 D1 1.00000000 sec
 TD0 1

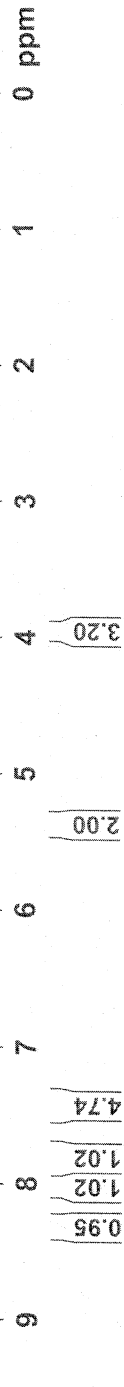
===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300106 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



CWII-117H

8.044
 8.040
 8.024
 8.020
 7.812
 7.792
 7.459
 7.455
 7.436
 7.428
 7.424
 7.408
 7.388
 7.383
 7.379
 7.366
 7.260
 5.378

3.954



CWII-117C



NAME CWII-117
 EXPNO 3
 PROCNO 1
 Date 20090327
 Time 19.30
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 64
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 298.2 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

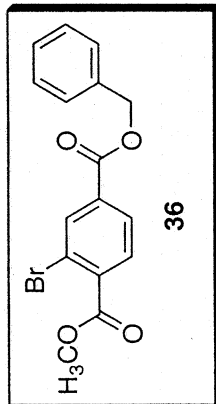
===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PLLW 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127722 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

52.74
 67.47
 76.69
 77.00
 77.32

121.44
 128.20
 128.41
 128.56
 128.70
 130.99
 133.70
 135.21
 135.33
 136.21

164.33
 166.09

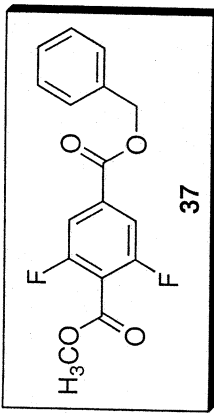


0 ppm
20
40
60
80
100
120
140
160
180
200



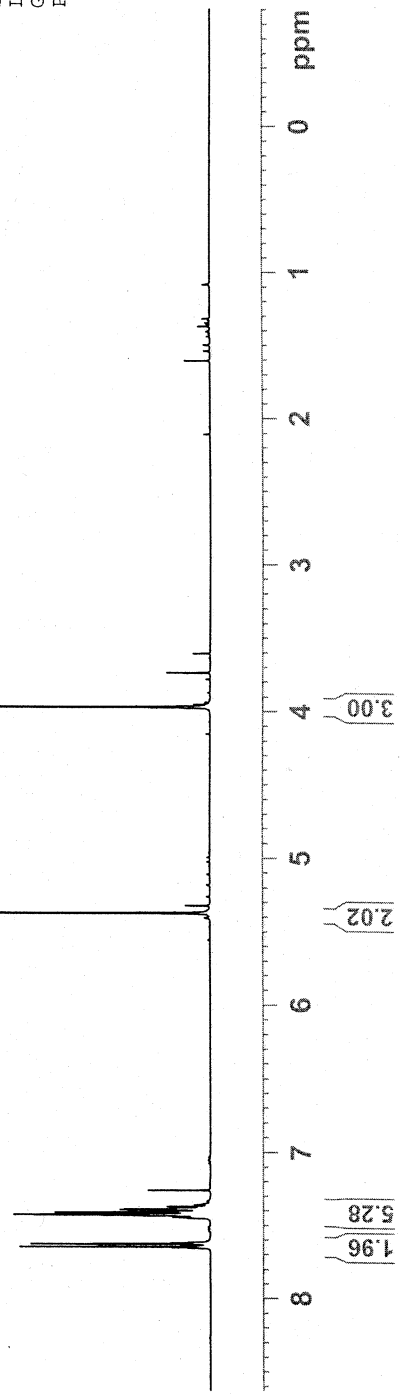
NAME CWIII-075
EXPNO 1
PROCNO 1
Date 20091206
Time 16.11
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 4
DW 60.800 usec
DE 6.50 usec
TE 293.3 K
D1 1.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
PL1 -1.80 dB
PL1W 21.67079544 W
SF01 400.1324710 MHz
SI 32768
SF 400.1300109 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



CWIII-077

7.446
7.432
7.426
7.415
7.410
7.404
7.396
7.394
7.392
7.389
7.384
7.382
7.372
7.260
5.375
3.971



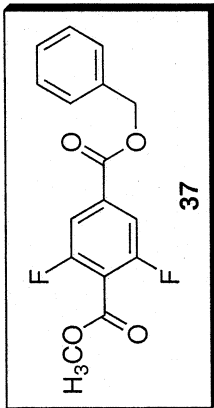
CWIII-077



NAME CWIII-075
 EXPNO 2
 PROCNO 1
 Date_ 20091206
 Time_ 16.19
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 293.5 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





NAME CWII-099
 EXPNO 2
 PROCNO 1
 Date_ 20090423
 Time_ 14.24
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 296.3 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300038 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

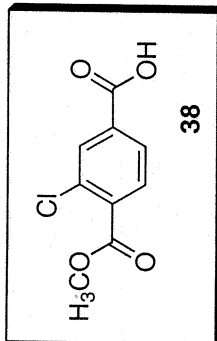
CWII-099H

13.635

2.509
 2.505
 2.500
 2.496
 2.491

3.885

7.991
 7.988
 7.970
 7.966
 7.950
 7.946
 7.907
 7.887



CWII-099C



NAME CWII-099
 EXNO 3
 PROCNO 1
 Date 20090423
 Time 14.39
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT DMSO
 NS 128
 DS 4
 SMH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 296.5 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

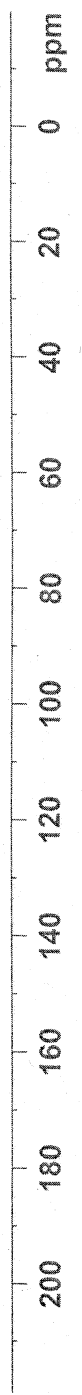
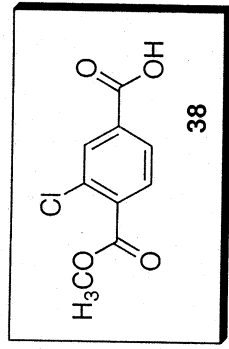
===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SF01 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SF02 400.1316005 MHz
 SI 32768
 SF 100.6128135 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

52.86
 40.15
 39.94
 39.73
 39.52
 39.31
 39.10
 38.89

134.90
 133.75
 131.82
 131.24
 130.97
 128.00

165.42
 165.10





CWII-119

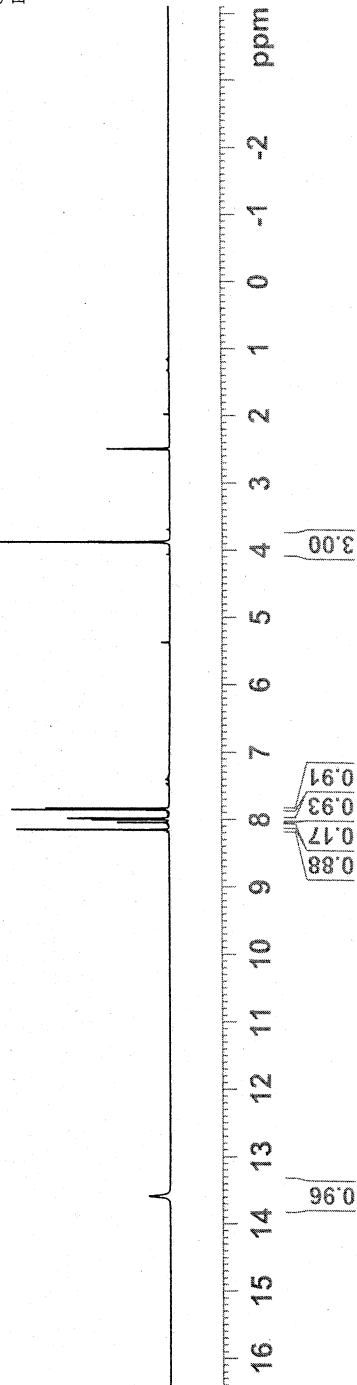
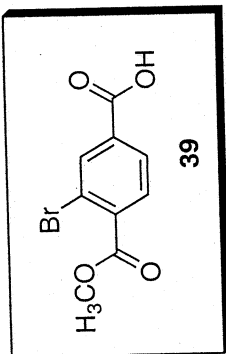
NAME CWII-119
 EXPNO 2
 PROCNO 1
 Date_ 20090426
 Time_ 14.08
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SMH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 297.0 K
 DI 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300039 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

3.885
 2.509
 2.505
 2.500
 2.496
 2.491

8.163
 8.159
 8.054
 8.012
 8.008
 7.992
 7.988
 7.862
 7.842

13.594



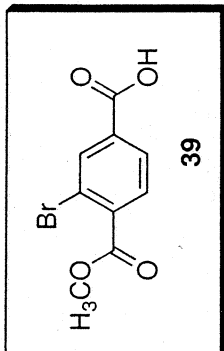


CWII-119C

52.86
40.14
39.93
39.73
39.52
39.31
39.10
38.89

165.81
165.31

136.12
134.71
134.05
130.95
128.47
119.94



NAME CWII-119
 EXPNO 3
 PROCNO 1
 Date 20090426
 Time_ 14.19
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT DMSO
 NS 145
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 297.2 K
 DI 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6128157 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

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

CWIII-079 H-NMR



```

NAME CWIII-079
EXNO 1
PROCNO 1
Date 20100122
Time_ 17.30
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 4
DW 60.800 usec
DE 6.50 usec
TE 291.7 K
D1 1.00000000 sec
TDO 1

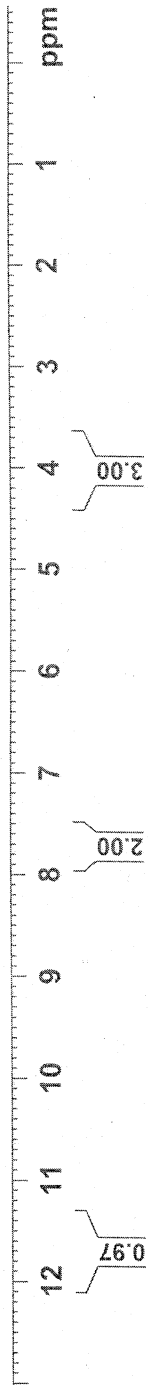
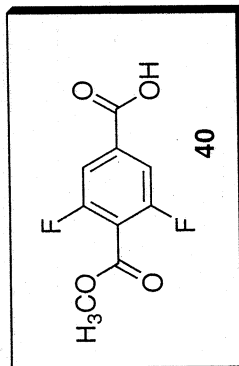
===== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
PL1 -1.80 dB
PL1W 21.67079544 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300114 MHz
EM
SSB 0
LB 0
GB 0
PC 1.00

```

4.026
3.992

7.705
7.700
7.695
7.676
7.670
7.665
7.260

11.650



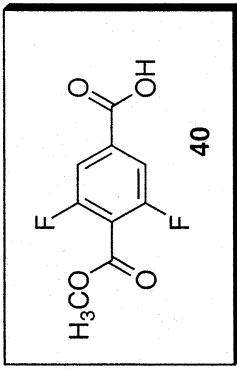
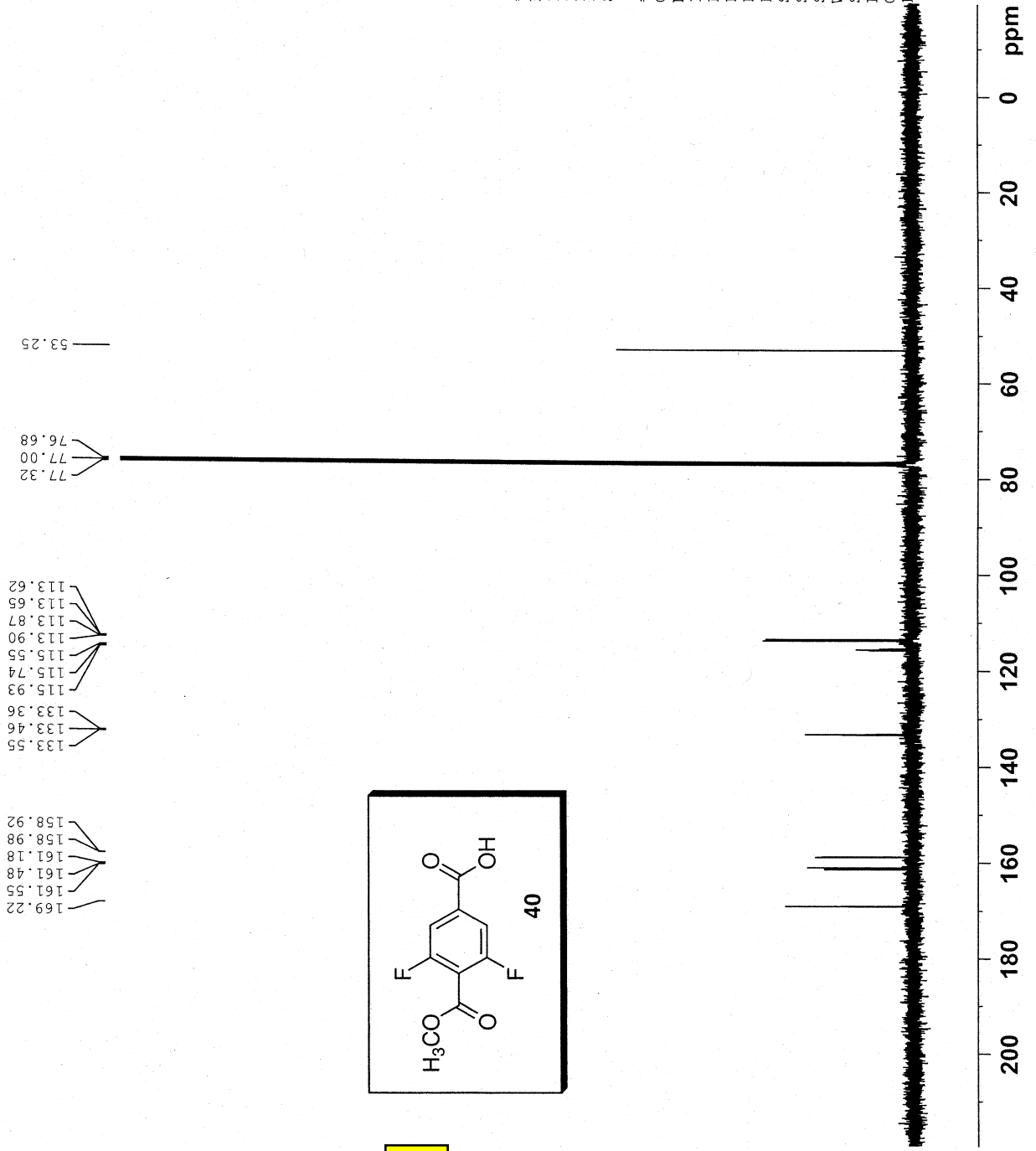


CWIII-079 13C-NMR

NAME CWIII-079
EXPNO 2
PROCNO 1
Date_ 20100122
Time 17.36
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 139
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 291.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

=====
CHANNEL f1
NUC1 13C
P1 8.50 usec
PL1 -1.50 dB
PL1W 52.51238251 W
SF01 100.6228298 MHz

=====
CHANNEL f2
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.80 dB
PL12 17.28 dB
PL2W 21.67079544 W
PL12W 0.26783961 W
SF02 400.1316005 MHz
SI 32768
SF 100.6127729 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



S47

CWII-077H

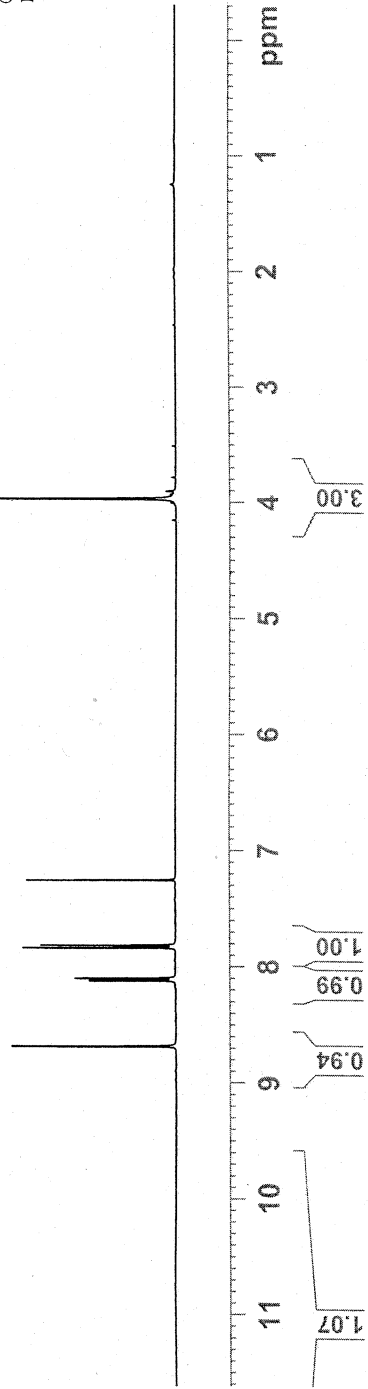
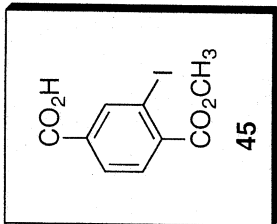
8.690
8.686
8.128
8.124
8.108
8.104
7.841
7.821
7.260

3.974



NAME CWII-077
 EXPNO 2
 PROCNO 1
 Date 20090327
 Time 14.56
 INSTRUM spect
 PROBHD 5 mm PABBO BB
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 297.5 K
 D1 1.00000000 sec
 TDO 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300106 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



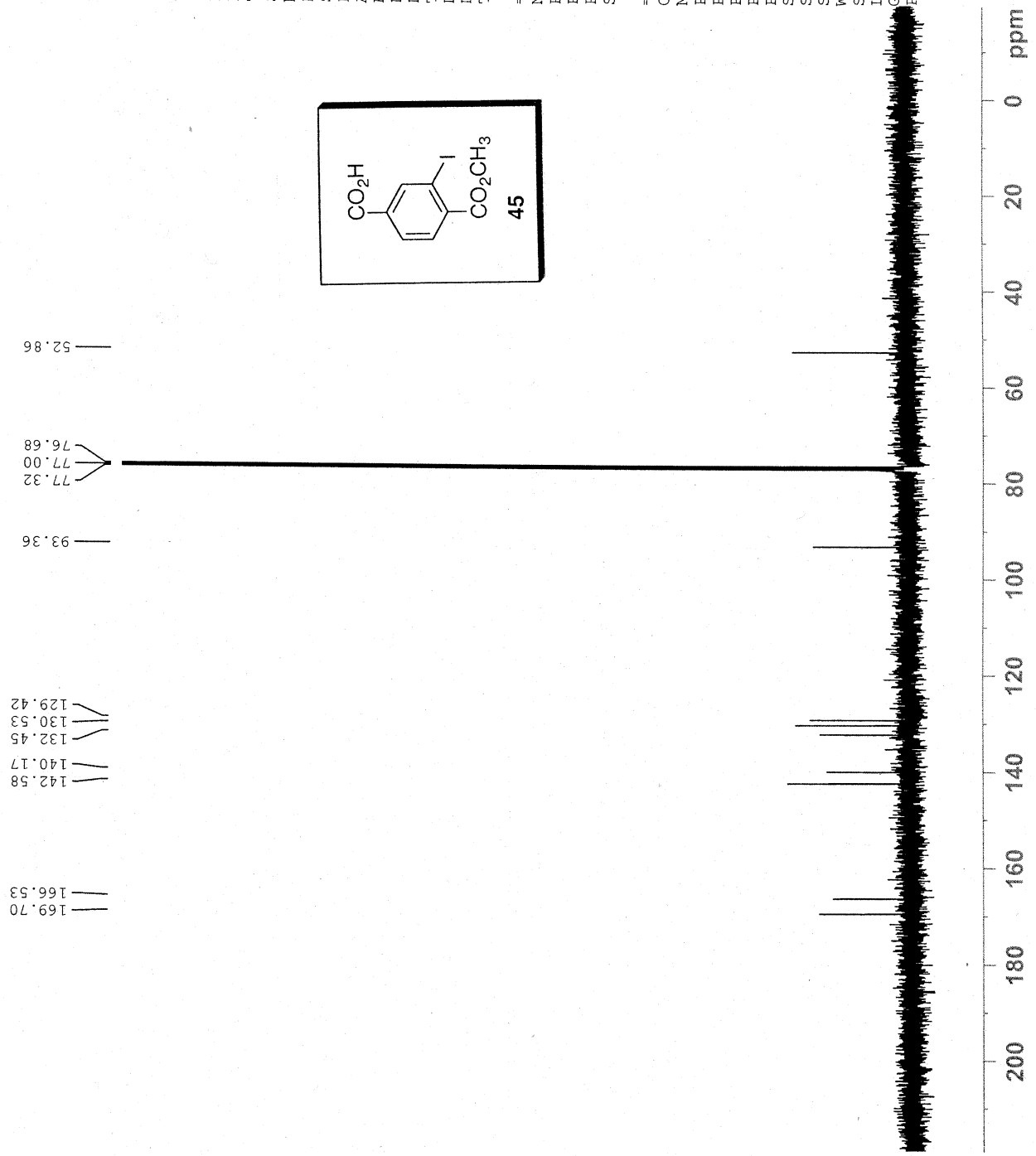
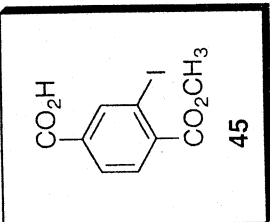
CWII-077



NAME CWII-077
 EXPNO 3
 PROCNO 1
 Date 20090327
 Time 14.50
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 64
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 297.7 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127714 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



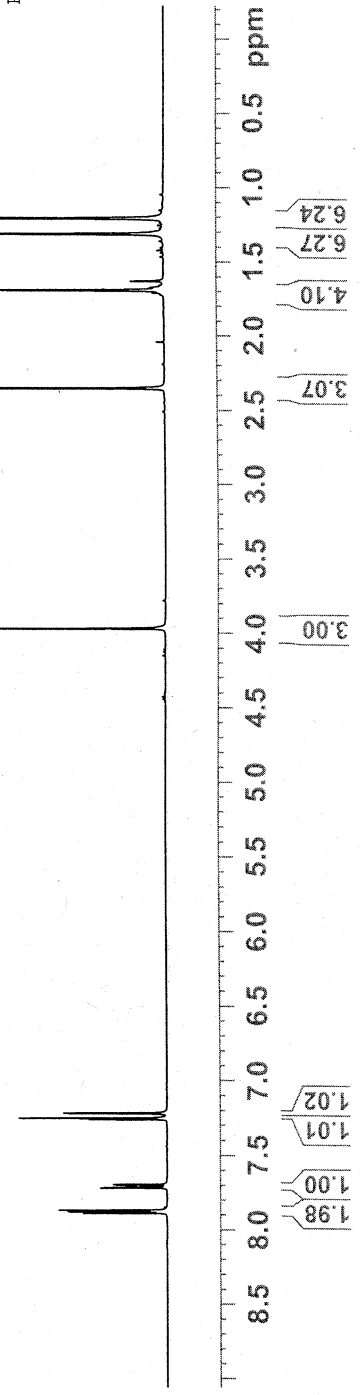
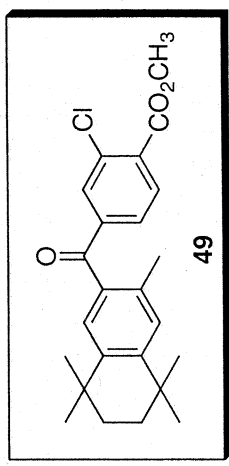
CWII-127



NAME CWII-127
 EXPNO 1
 PROCNO 1
 Date_ 20090702
 Time_ 14.18
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.0 K
 D1 1.00000000 sec
 TDO 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300109 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

7.888
 7.880
 7.875
 7.868
 7.718
 7.714
 7.698
 7.694
 7.260
 7.251
 7.218

3.969
 2.353
 1.692
 1.312
 1.206

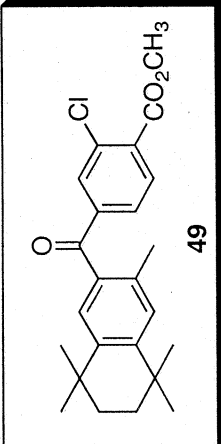
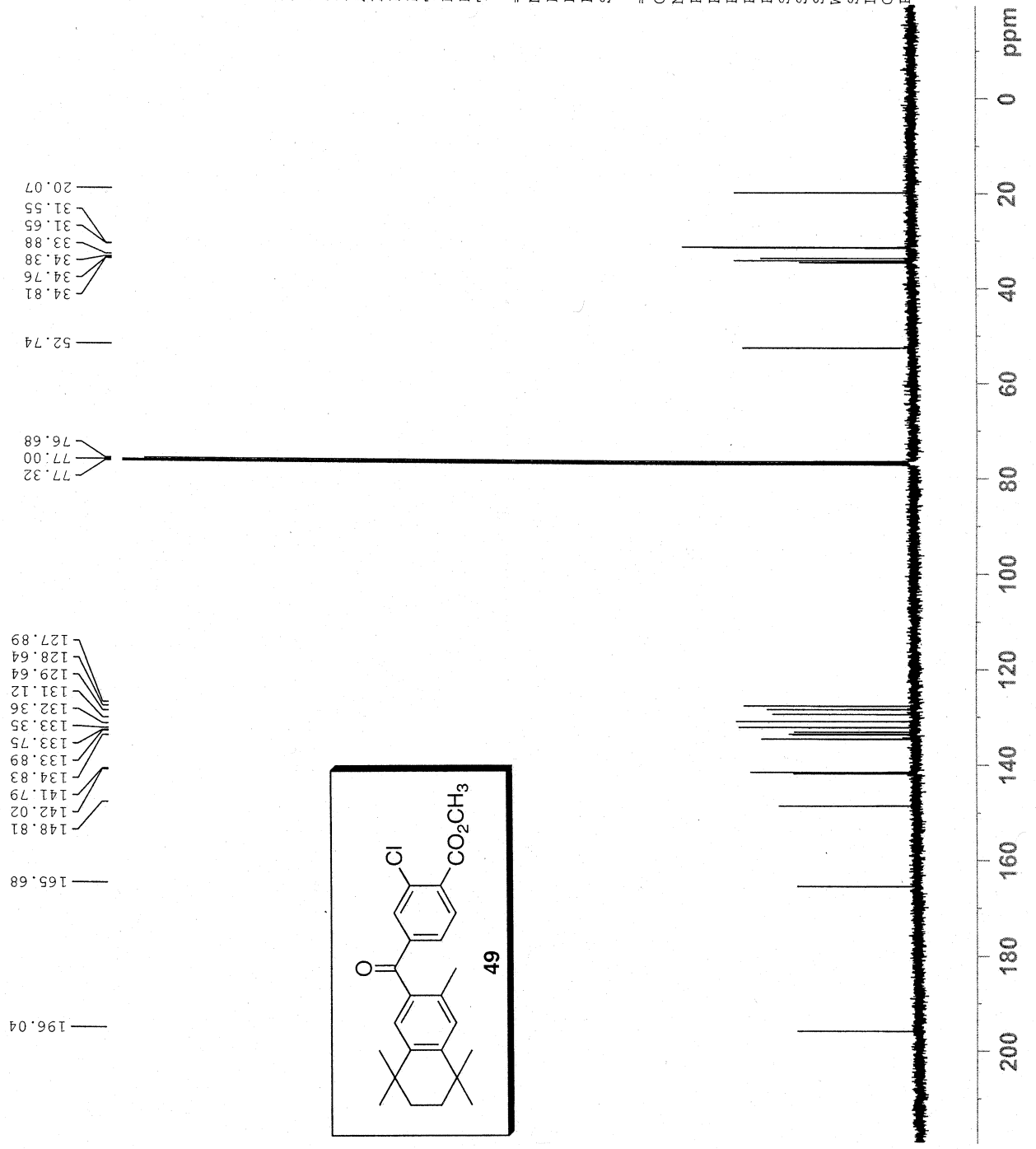




NAME CWII-127
 EXPNO 2
 PROCNO 1
 Date 20090702
 Time 14.41
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 313
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 292.4 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

CWII-127



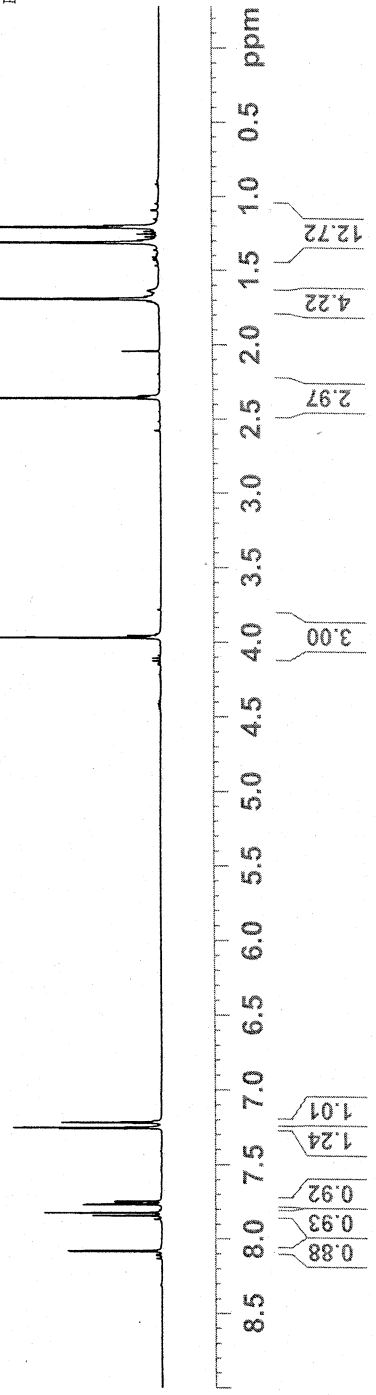
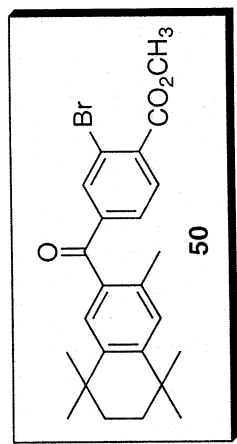


NAME CWII-135
 EXPNO 1
 PROCNO 1
 Date 20090702
 Time 16.51
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.1 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.6707954 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300109 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

CWII-135

8.083
 8.079
 7.844
 7.824
 7.770
 7.766
 7.750
 7.746
 7.260
 7.253
 7.220

3.970
 2.359
 1.692
 1.313
 1.209



CWII-135



NAME CWII-135
 EXPNO 2
 PROCNO 1
 Date 20090702
 Time_ 17.11
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDC13
 NS 273
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 292.4 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

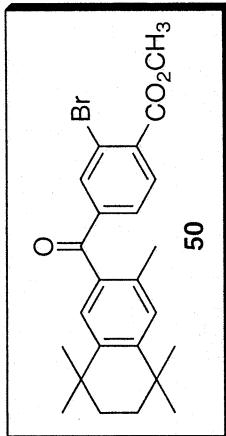
===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

20.09
 31.55
 31.66
 33.88
 34.38
 34.76
 34.81
 52.77
 76.68
 77.00
 77.31

121.51
 128.52
 128.73
 129.66
 130.93
 133.82
 134.89
 135.49
 135.63
 141.68
 142.02
 148.83

166.22

195.88



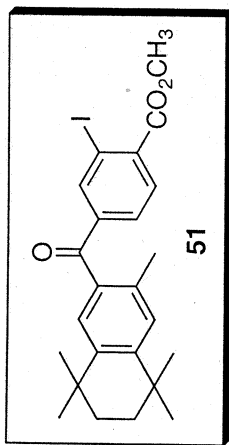


NAME CWII-139
 EXPNO 1
 PROCNO 1
 Date 20090702
 Time_ 17.19
 INSTRUM spect
 PROBHD 5 mm FAPBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.1 K
 DI 1.00000000 sec
 TD0 1

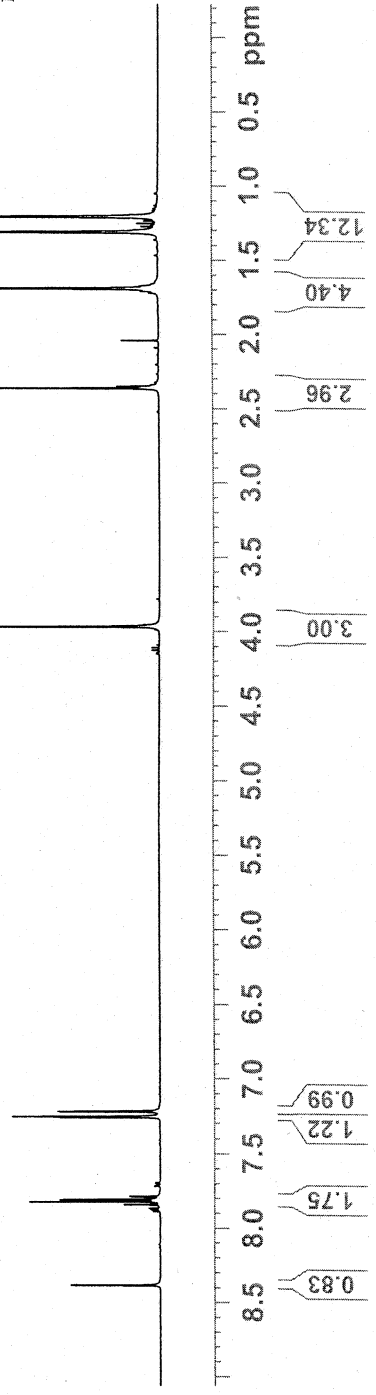
===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300109 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

CWII-139

8.386
 8.383
 7.843
 7.823
 7.810
 7.806
 7.790
 7.786
 7.260
 7.253
 7.220



3.969
 2.366
 1.692
 1.313
 1.211





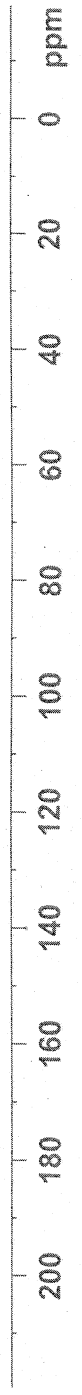
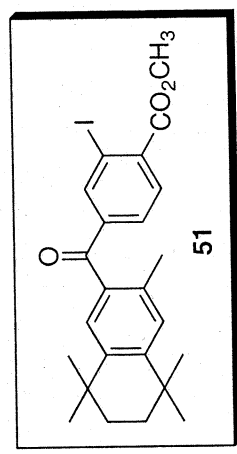
NAME CWII-139
 EXPNO 2
 PROCNO 1
 Date 20090702
 Time 17.32
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 257
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 292.3 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PLW 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

CWII-139

195.72
 166.65
 148.84
 142.55
 141.99
 141.49
 138.51
 135.00
 133.75
 130.48
 129.68
 129.33
 128.88
 93.54
 77.32
 77.00
 76.68
 52.78
 34.81
 34.76
 34.39
 33.88
 31.68
 31.55
 20.12



CWIII-083 H-NMR

7.389
7.369
7.260
7.239
7.220
7.213

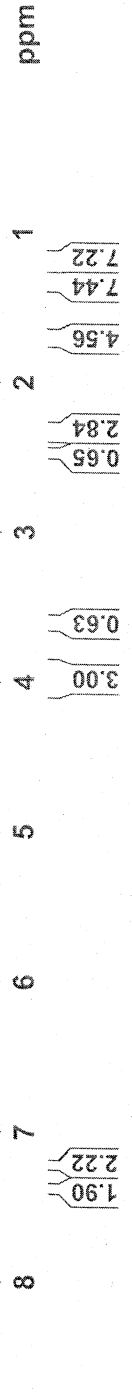
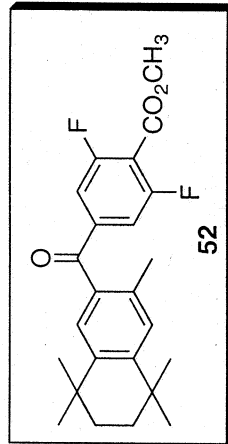
3.989
3.983
3.606

2.463
2.340
1.695
1.670
1.665
1.601
1.310
1.288
1.282
1.217
1.160



NAME CWIII-083
 EXPNO 1
 PROCNO 1
 Date 20100122
 Time 17.02
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 291.5 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300114 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



CWIII-083 13C-NMR

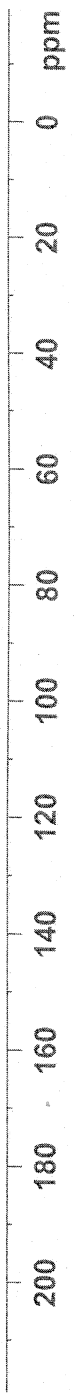
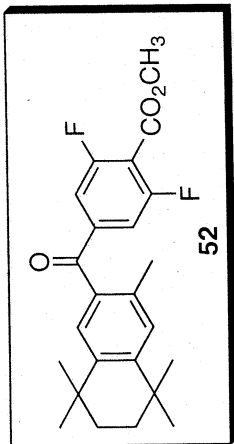


NAME CWIII-083
 EXPNO 2
 PROCNO 1
 Date 20100122
 Time 17.13
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDC13
 NS 201
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 291.4 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PLLW 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127736 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

194.70
 161.55
 161.46
 158.98
 158.92
 149.09
 142.58
 142.50
 142.17
 136.13
 134.78
 133.37
 133.13
 129.91
 129.74
 128.33
 114.18
 113.55
 113.28
 77.32
 77.00
 76.68
 53.11
 52.65
 34.78
 34.73
 34.41
 33.90
 33.81
 31.67
 31.55
 20.69
 20.00



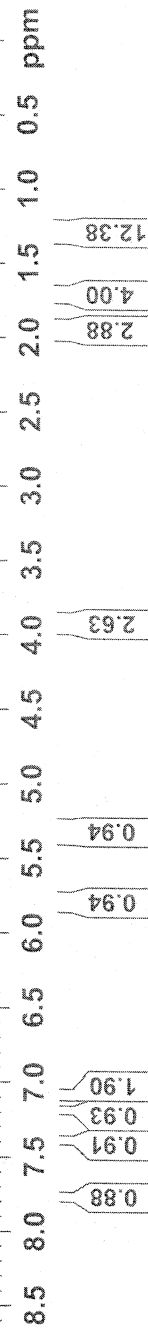
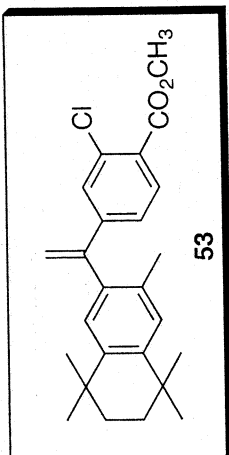
CWII-141



NAME CWII-141
 EXPNO 1
 PROCNO 1
 Date 20090702
 Time 16.22
 INSTRUM spect
 PROBHD 5 mm PABEO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.0 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300109 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

7.784
 7.763
 7.7394
 7.389
 7.394
 7.389
 7.260
 7.199
 7.199
 7.195
 7.179
 7.175
 7.104
 7.086
 5.801
 5.798
 5.351
 5.348
 3.924
 1.953
 1.701
 1.308
 1.277



CWII-141

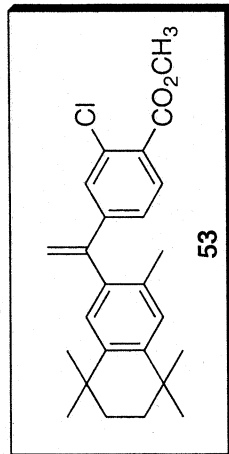


NAME CWII-141
 EXPNO 2
 PROCNO 1
 Date 20090702
 Time 16.35
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 257
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 292.3 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SF01 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltzi6
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SF02 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

165.95
 147.92
 145.76
 144.61
 142.43
 137.21
 133.91
 132.60
 131.52
 128.95
 128.23
 128.16
 128.03
 124.82
 117.78
 76.68
 77.32
 77.00
 77.00
 52.36
 35.11
 35.09
 33.99
 33.87
 31.89
 31.83
 19.97



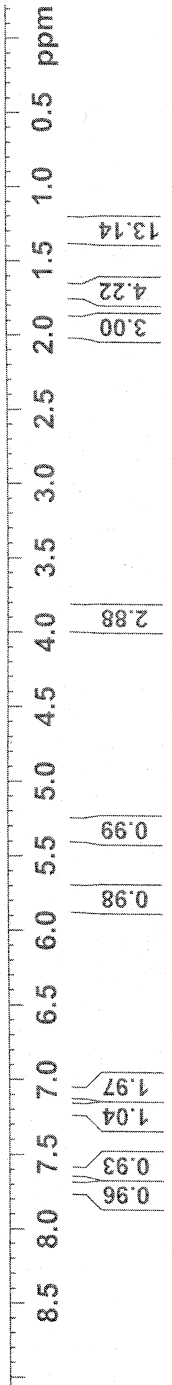
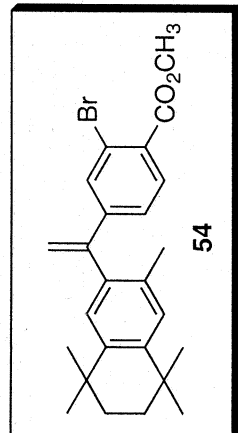
200 180 160 140 120 100 80 60 40 20 0 ppm



NAME CWII-149
 EXPNO 1
 PROCNO 1
 Date 20090907
 Time 12.15
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 291.7 K
 DI 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.80 dB
 PL1W 21.67079544 W
 SFO1 400.1324710 MHz
 SI 32768
 SF 400.1300111 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

CWII-149

7.743
 7.723
 7.630
 7.626
 7.260
 7.219
 7.215
 7.199
 7.195
 7.101
 7.085
 5.791
 5.788
 5.345
 5.343
 3.923
 1.955
 1.700
 1.307
 1.275



CWII-149

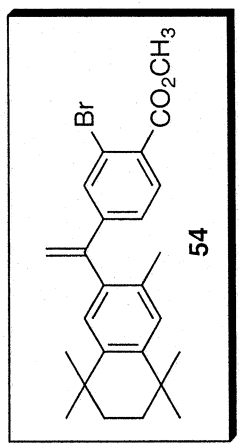


NAME CWII-149
 EXPNO 2
 PROCNO 1
 Date 20090907
 Time 12.54
 INSTRUM spect
 PROBHD 5 mm PABEO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 591
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 292.0 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -4.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

166.39
 147.81
 145.75
 144.61
 142.43
 137.19
 132.60
 132.18
 131.39
 130.26
 128.17
 128.03
 125.48
 121.94
 117.85
 77.32
 77.00
 76.69
 52.41
 35.11
 35.09
 33.99
 33.87
 31.89
 31.83
 20.00



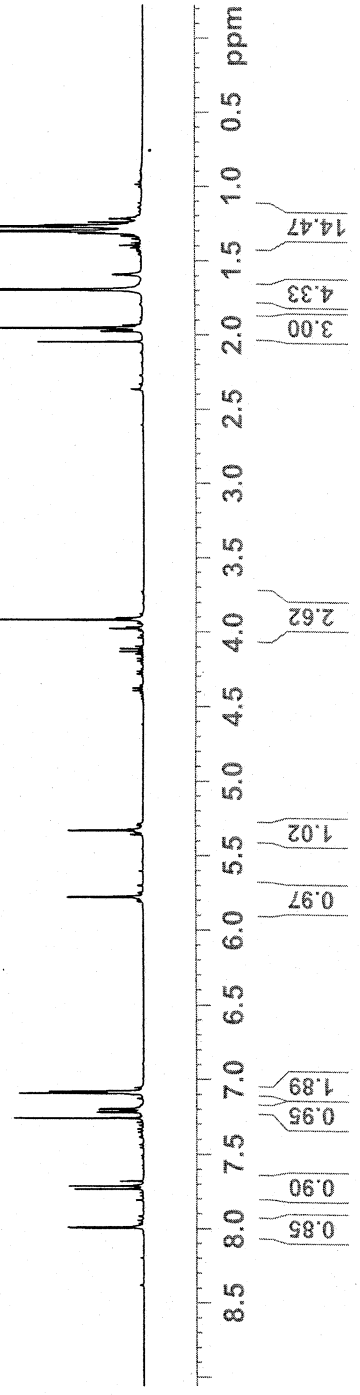
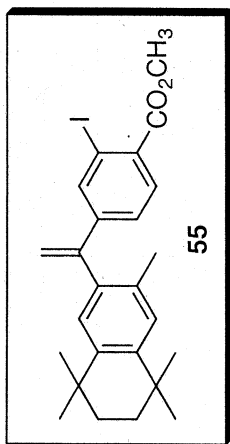


CWII-145
NAME
EXPNO 1
PROCNO 1
Date 20090702
Time 13.01
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 4
DW 60.800 usec
DE 6.50 usec
TE 292.1 K
DI 1.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
PL1 -1.80 dB
PL1W 21.67079544 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300109 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

CWII-145

7.996
7.992
7.735
7.715
7.260
7.222
7.218
7.202
7.197
7.093
7.082
5.780
5.777
5.335
5.333
3.920
1.956
1.698
1.305
1.273



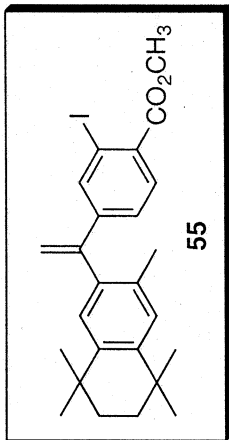
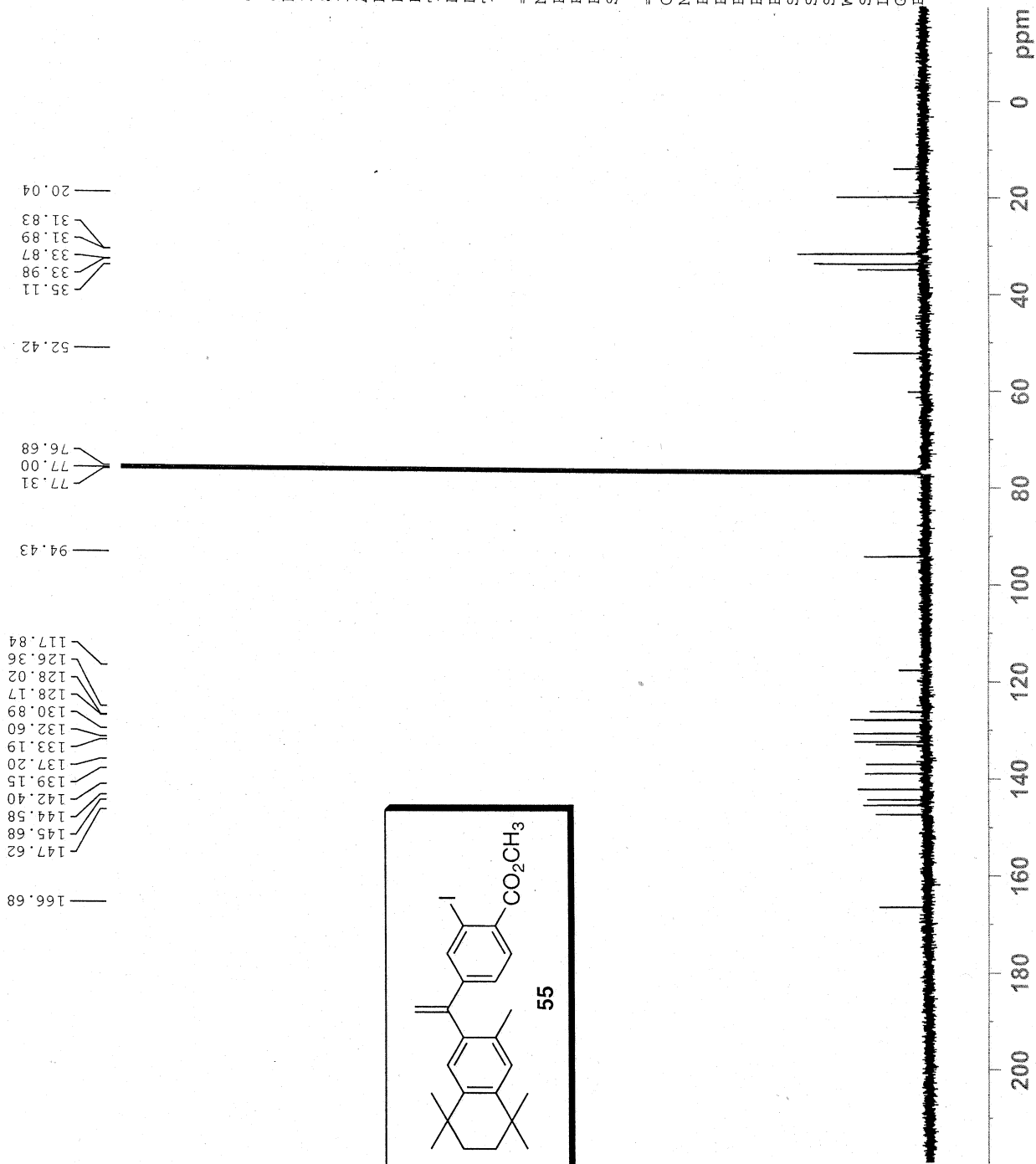
CWII-145



NAME CWII-145
 EXPNO 2
 PROCNO 1
 Date 20090702
 Time 13.29
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgig30
 TD 65536
 SOLVENT CDCl3
 NS 376
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 292.4 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PLLW 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 FC 1.40

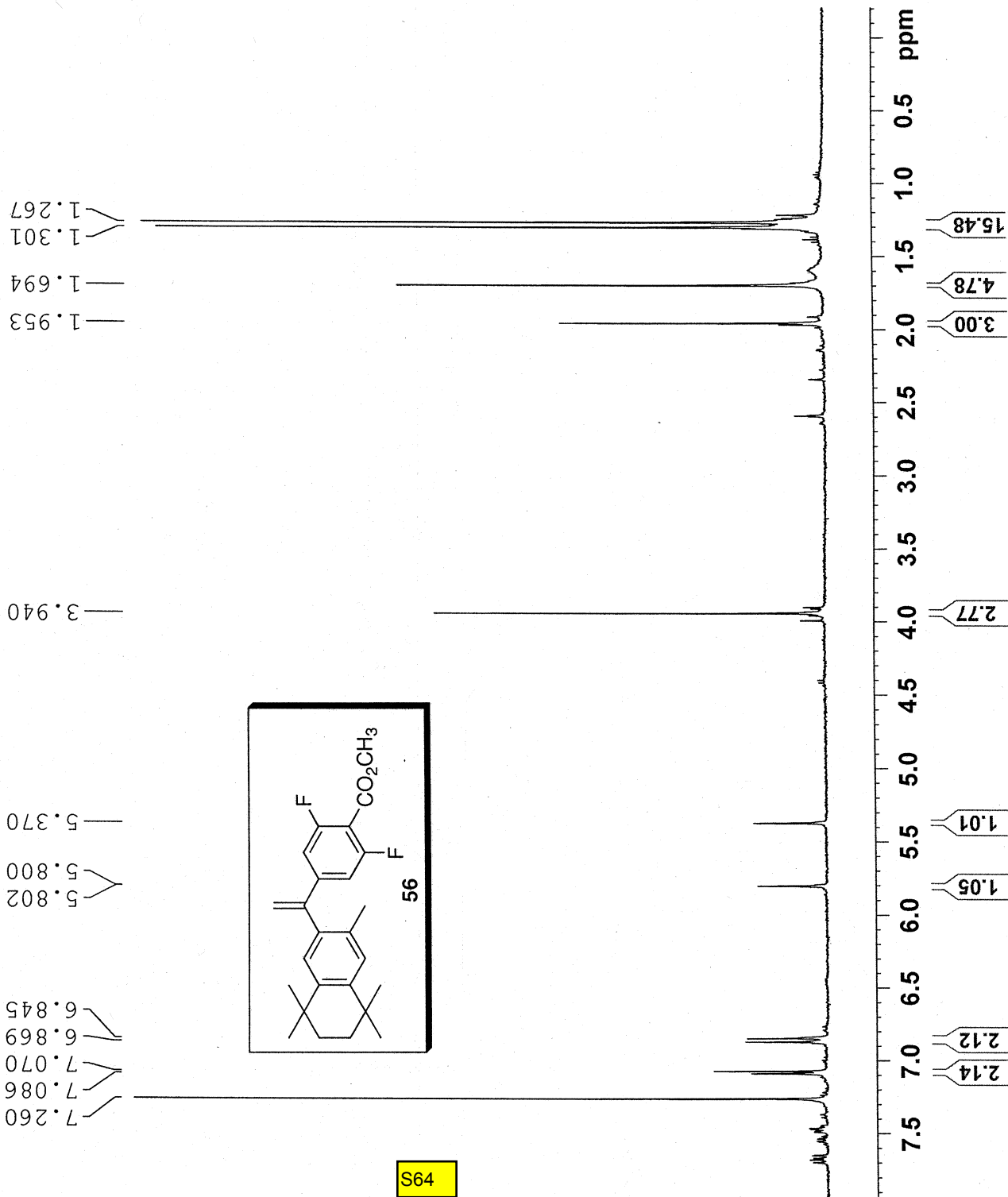


CWIII-085 H-NMR



NAME CWIII-085
 EXPNO 3
 PROCNO 1
 Date 20120425
 Time 17.41
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.50 usec
 TE 292.2 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.50 dB
 PL1W 12.76071072 W
 SF01 400.1324710 MHz
 SI 32768
 SF 400.1300101 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



S64

CWIII-085 13C-NMR

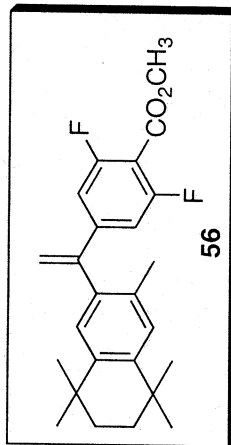


NAME CWIII-085
 EXPNO 2
 PROCNO 1
 Date_ 20100123
 Time_ 12.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 300
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 291.9 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -1.50 dB
 PL1W 52.51238251 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -1.80 dB
 PL12 17.28 dB
 PL2W 21.67079544 W
 PL12W 0.26783961 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127744 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

162.03
 159.56
 159.49
 147.34
 146.67
 146.42
 144.88
 144.85
 144.85
 142.57
 136.69
 136.64
 132.57
 132.12
 132.02
 131.93
 128.53
 128.42
 128.23
 127.99
 118.22
 110.14
 109.88
 109.08
 77.31
 77.00
 76.68
 61.88
 60.38
 52.69
 35.07
 35.05
 34.00
 33.87
 31.88
 31.82
 21.04
 19.81
 14.18
 14.13



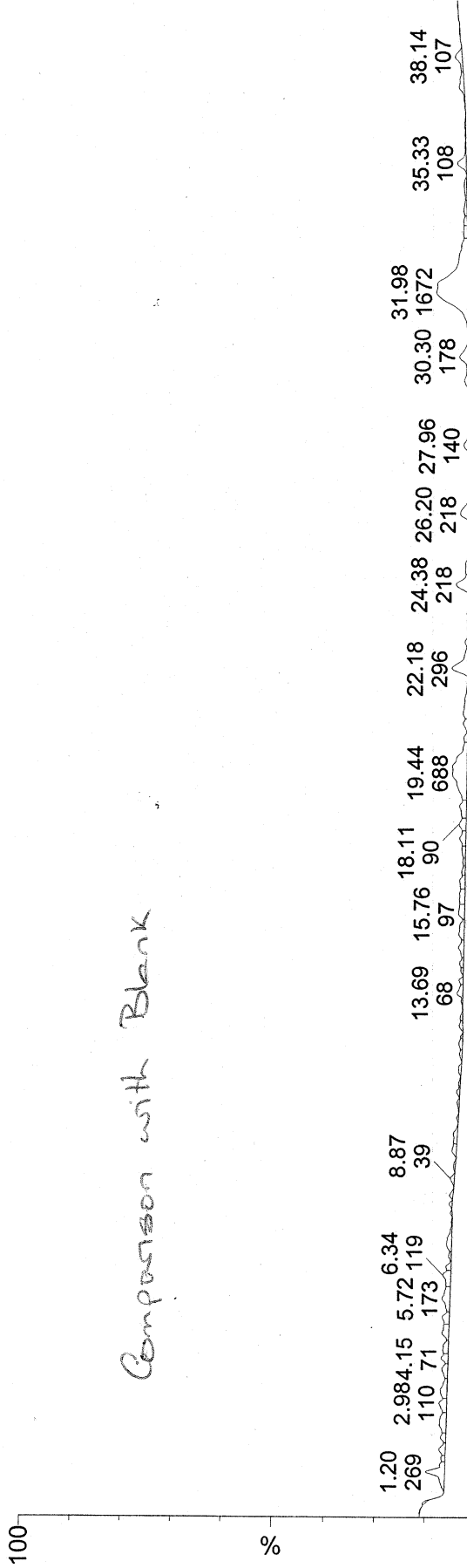
S65



jg-cw-blabk-1 Sm (Mn, 2x3)

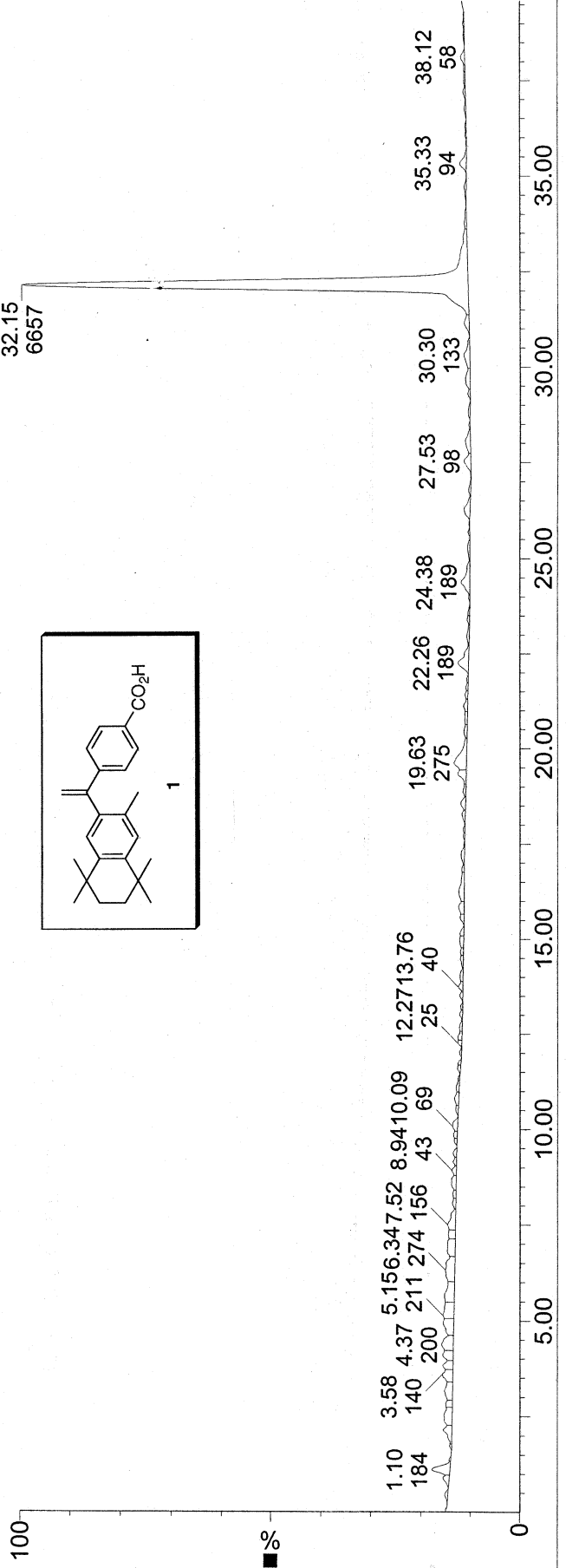
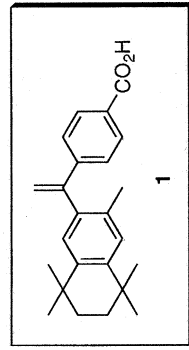
TOF MS ES-
TIC
2.50e4
Area

Comparison with Blank



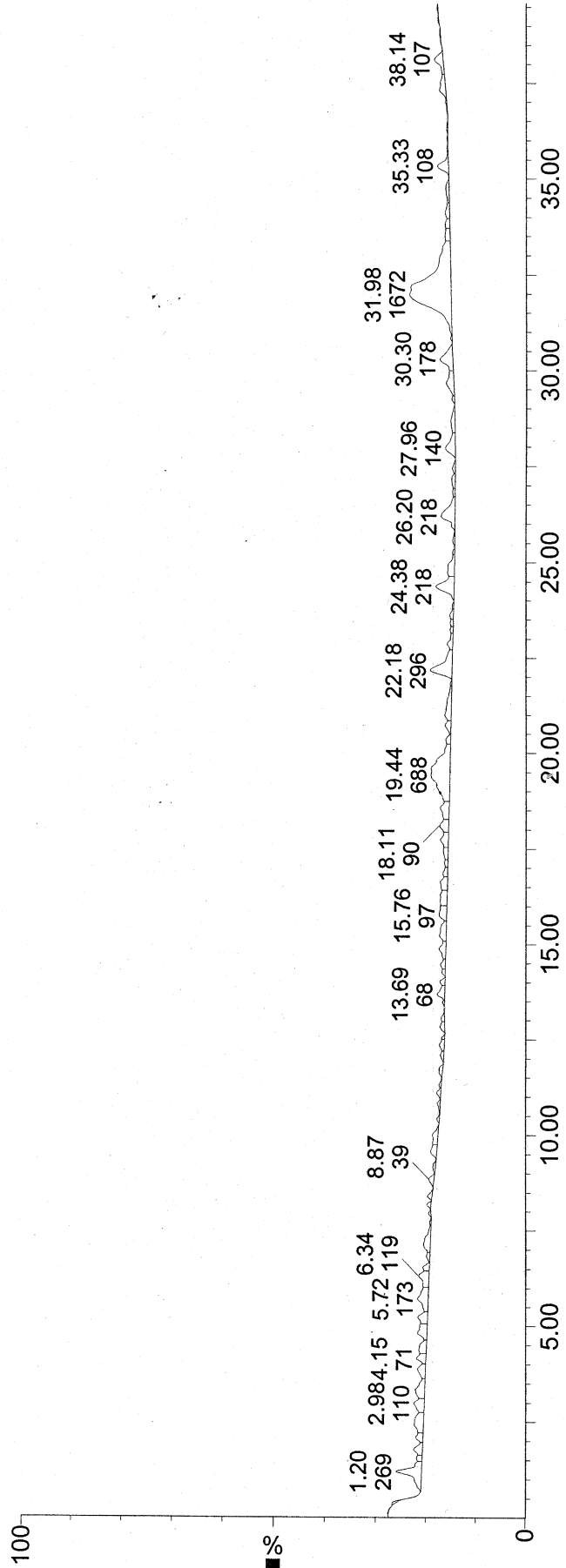
jg-cw-i-39d-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
2.50e4
Area



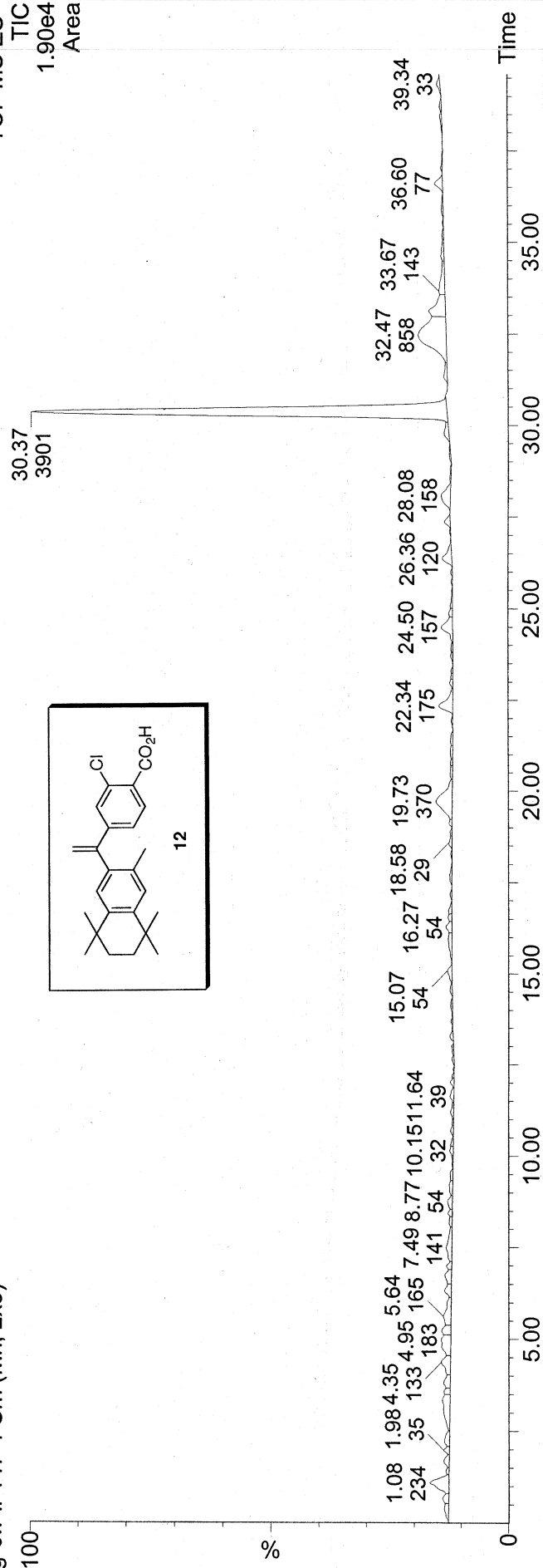
jg-cw-blabk-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
1.90e4
Area



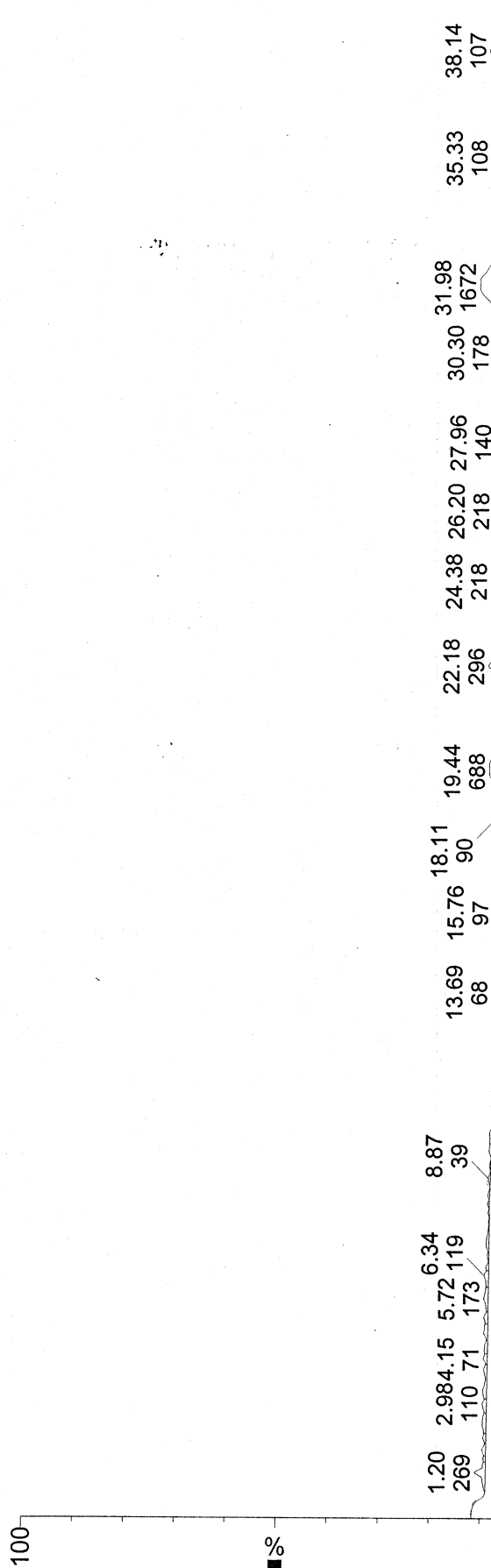
jg-cw-ii-147-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
1.90e4
Area



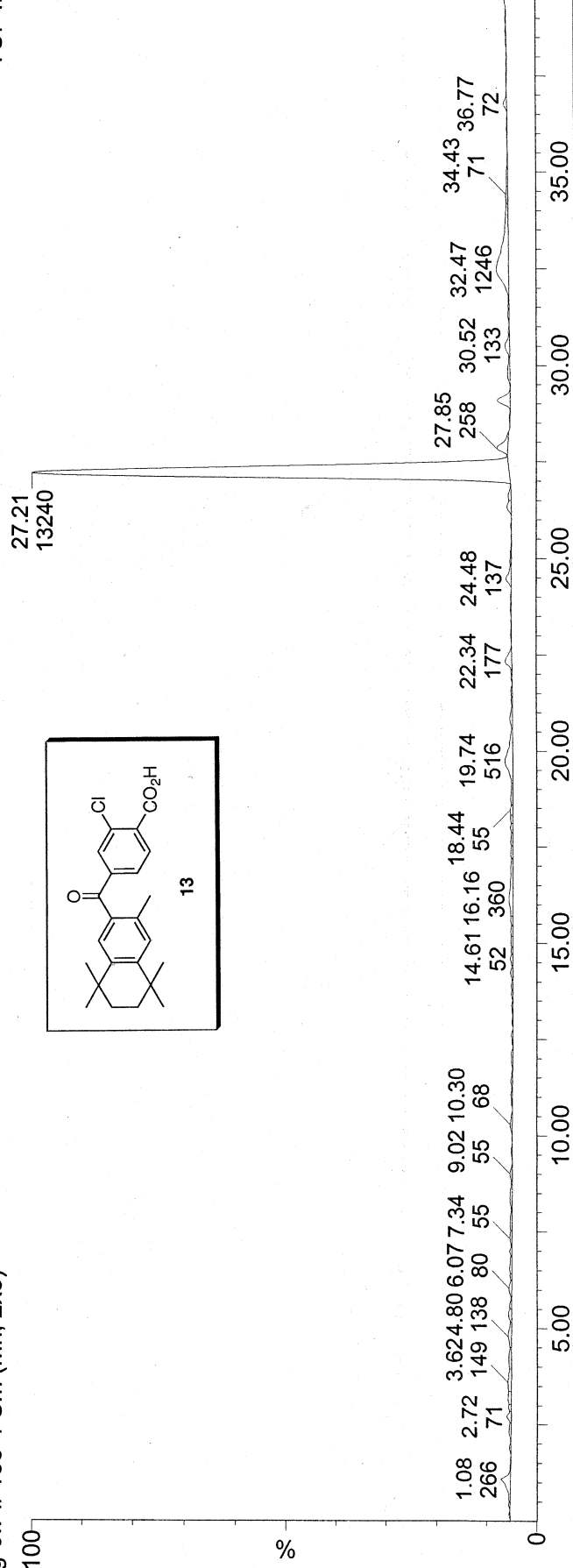
jg-cw-blabk-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
4.50e4
Area



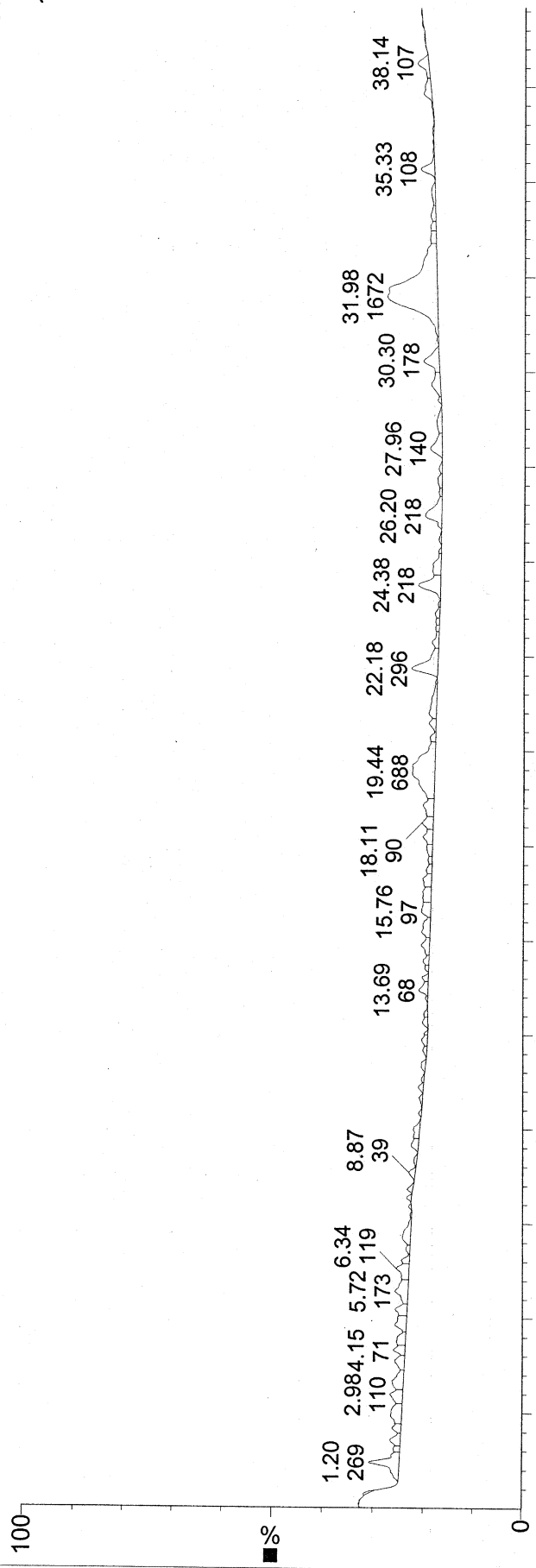
jg-cw-ii-155-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
4.50e4
Area



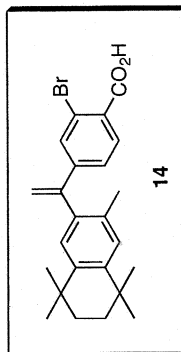
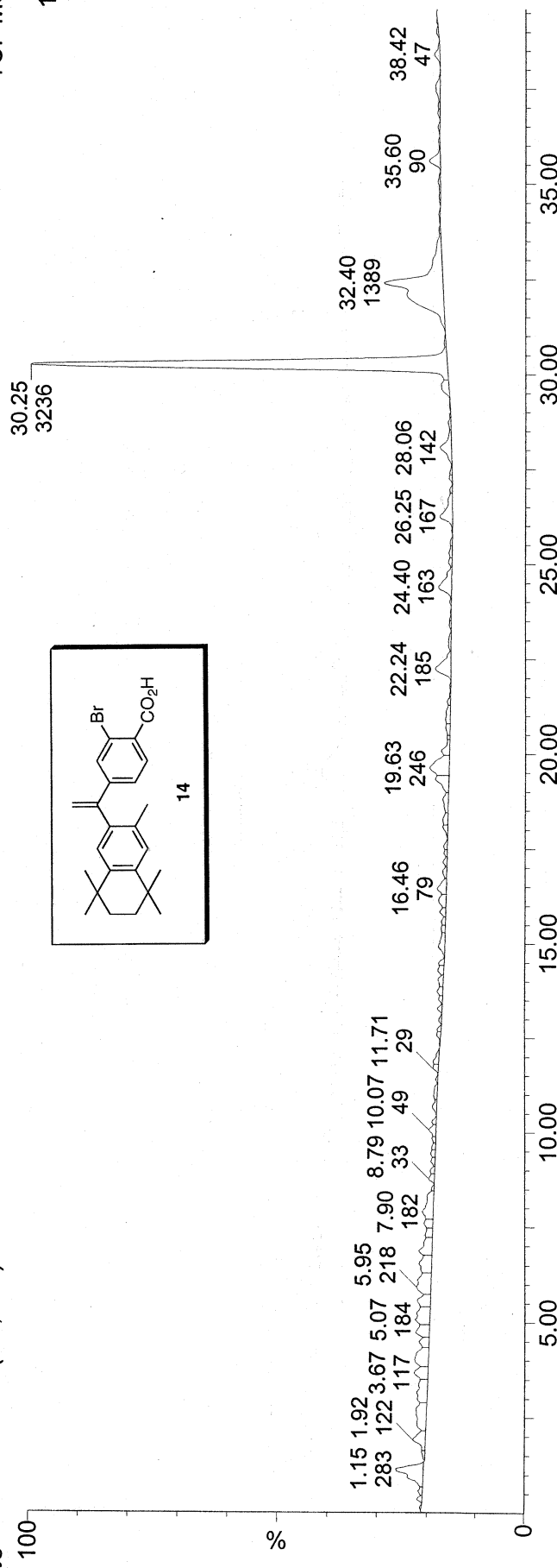
jg-cw-blabk-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
1.60e4
Area



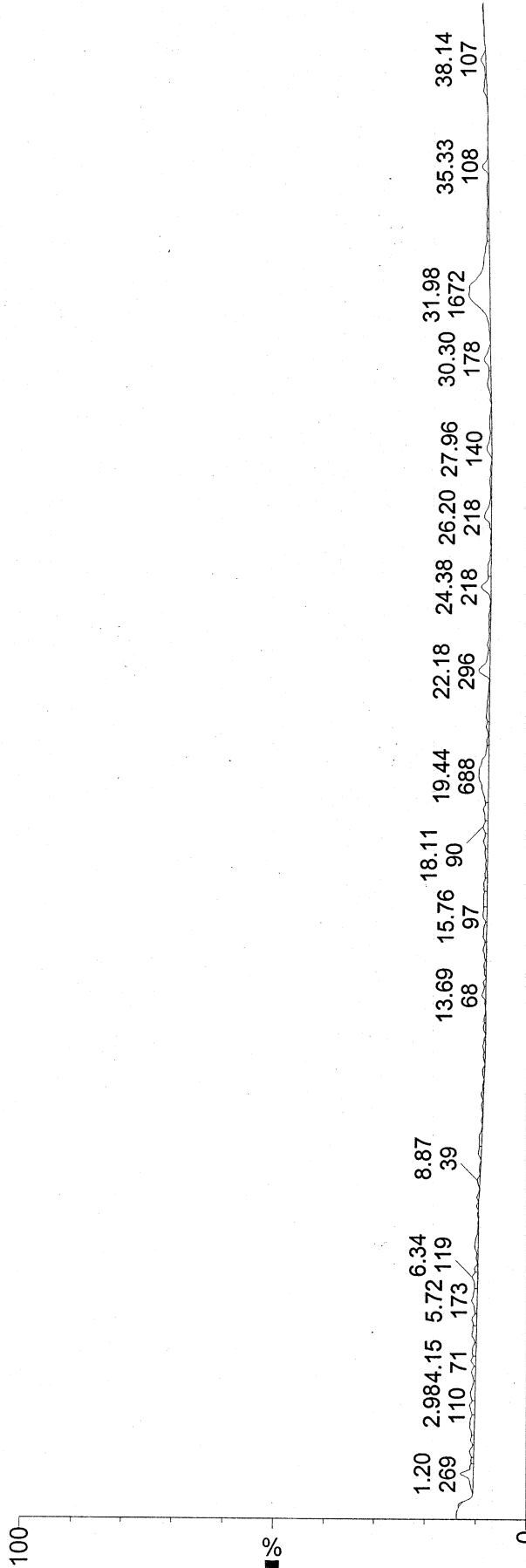
jg-cw-ii-151-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
1.60e4
Area



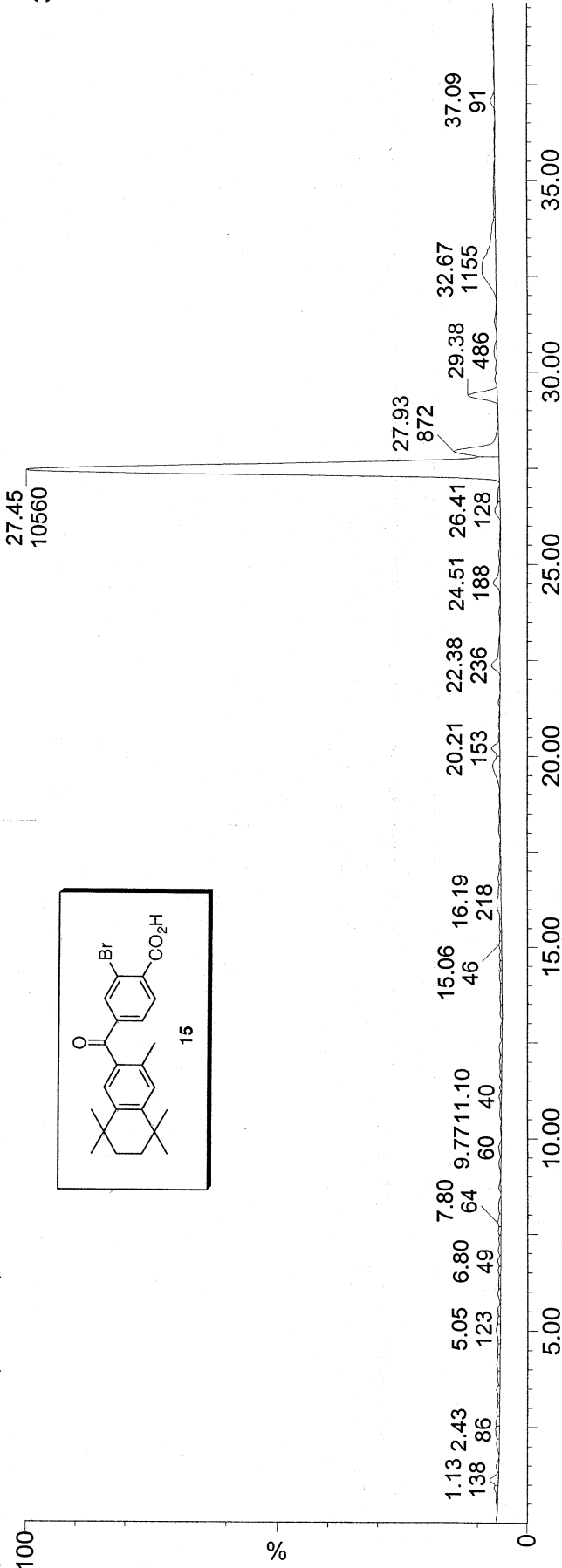
jg-cw-blabk-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
3.80e4
Area



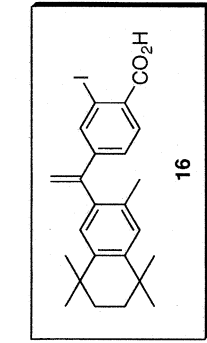
jg-cw-ii-157-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
3.80e4
Area

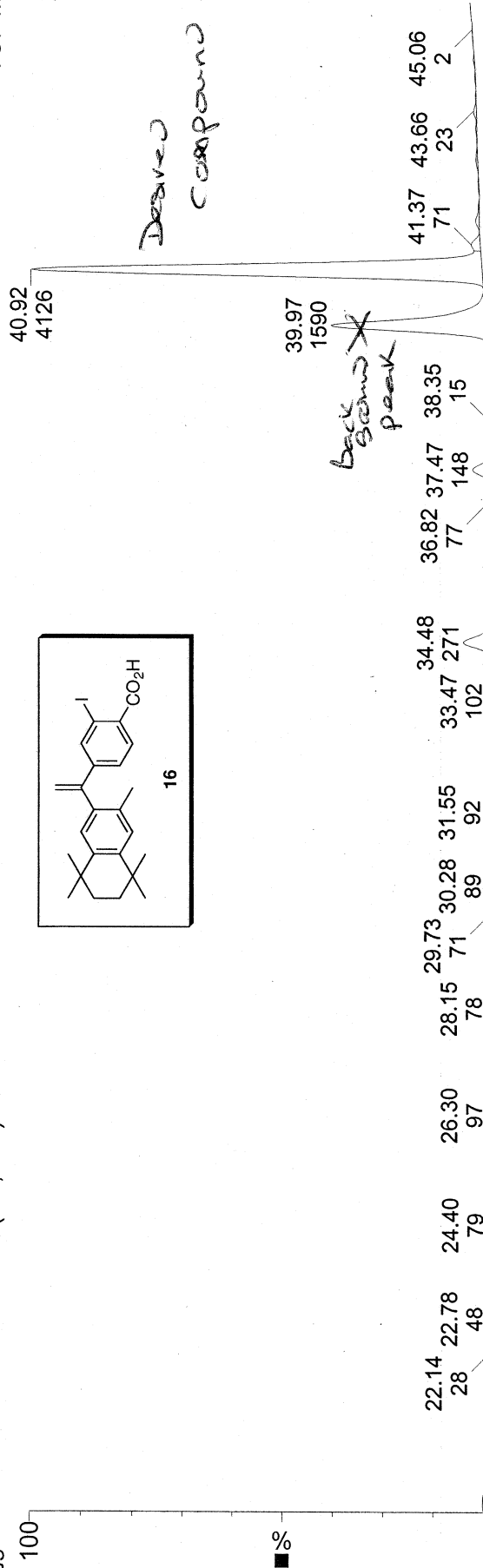


0011-153-2

jg-cw-061912-cwii-153-2-1 Sm (Mn, 2x3)

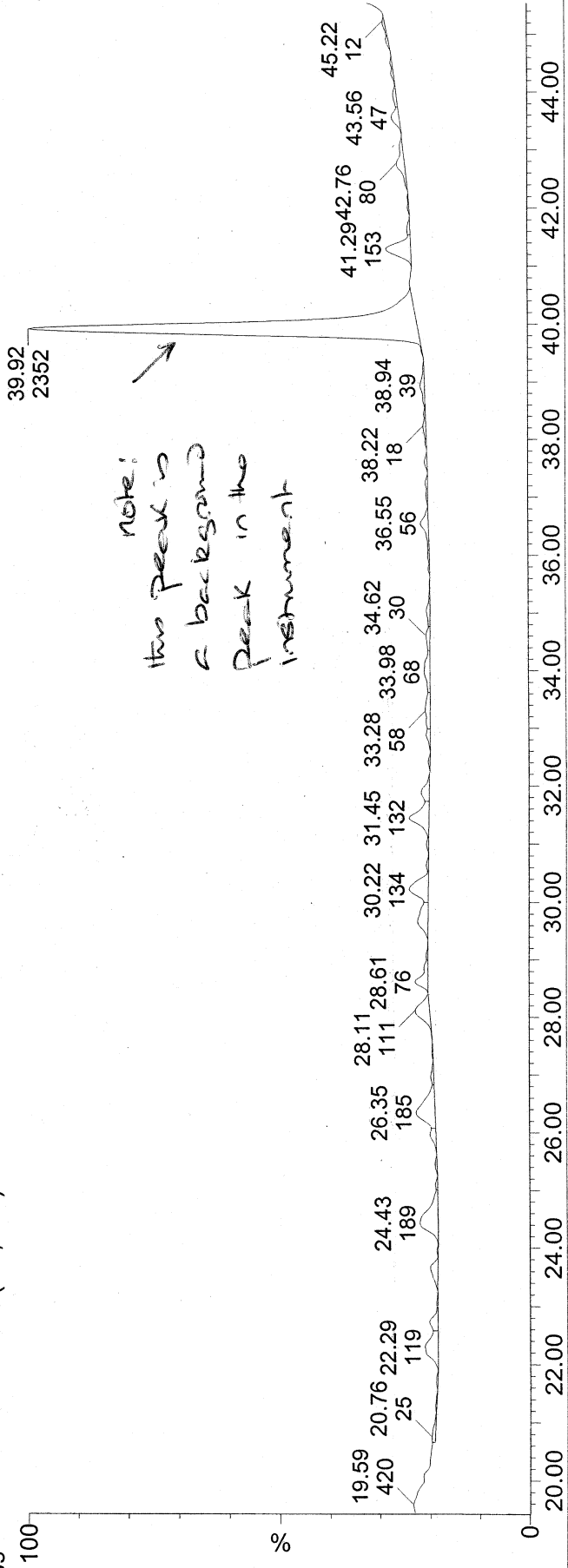


TOF MS ES-
TIC
2.02e4
Area



jg-cw-061912-blk-1 Sm (Mn, 2x3)

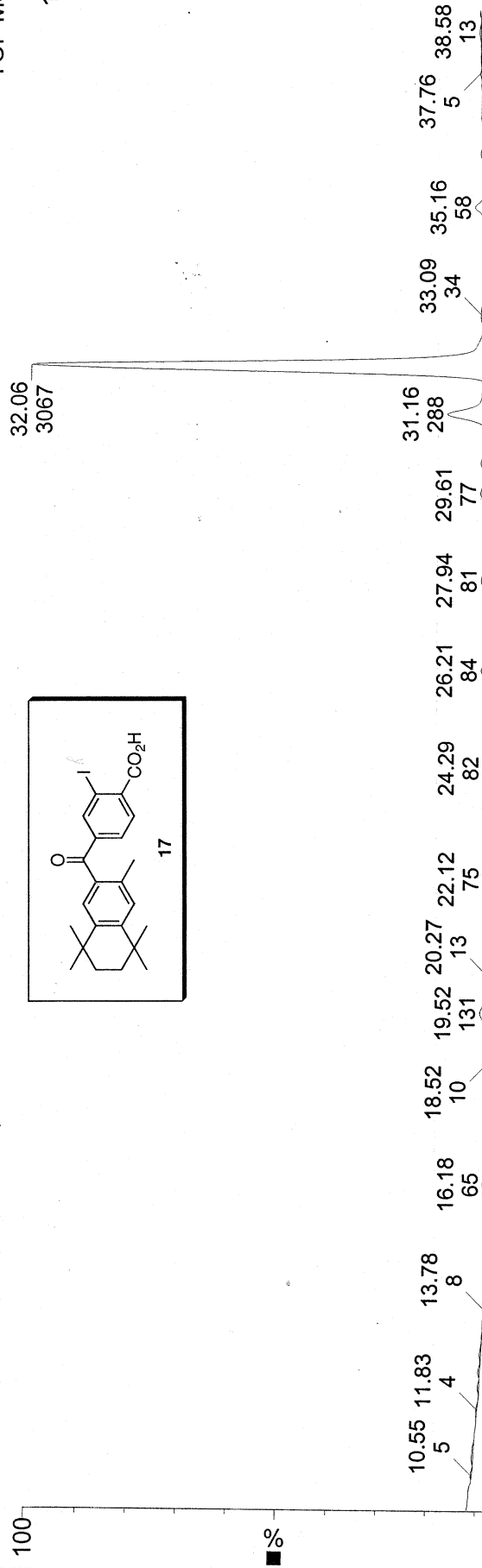
TOF MS ES-
TIC
1.19e4
Area



C-2011-15A -1

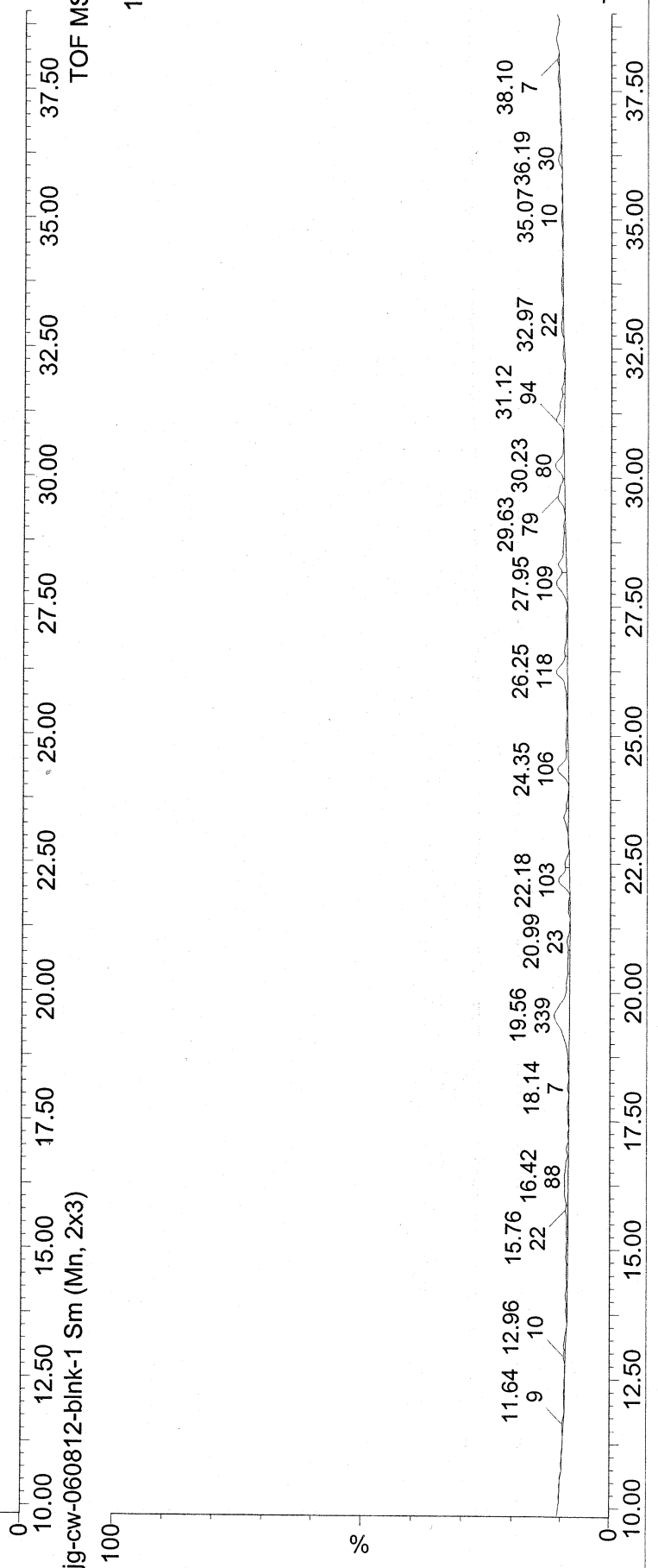
jg-cw-060812-cwii-159-1-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
1.51e4
Area



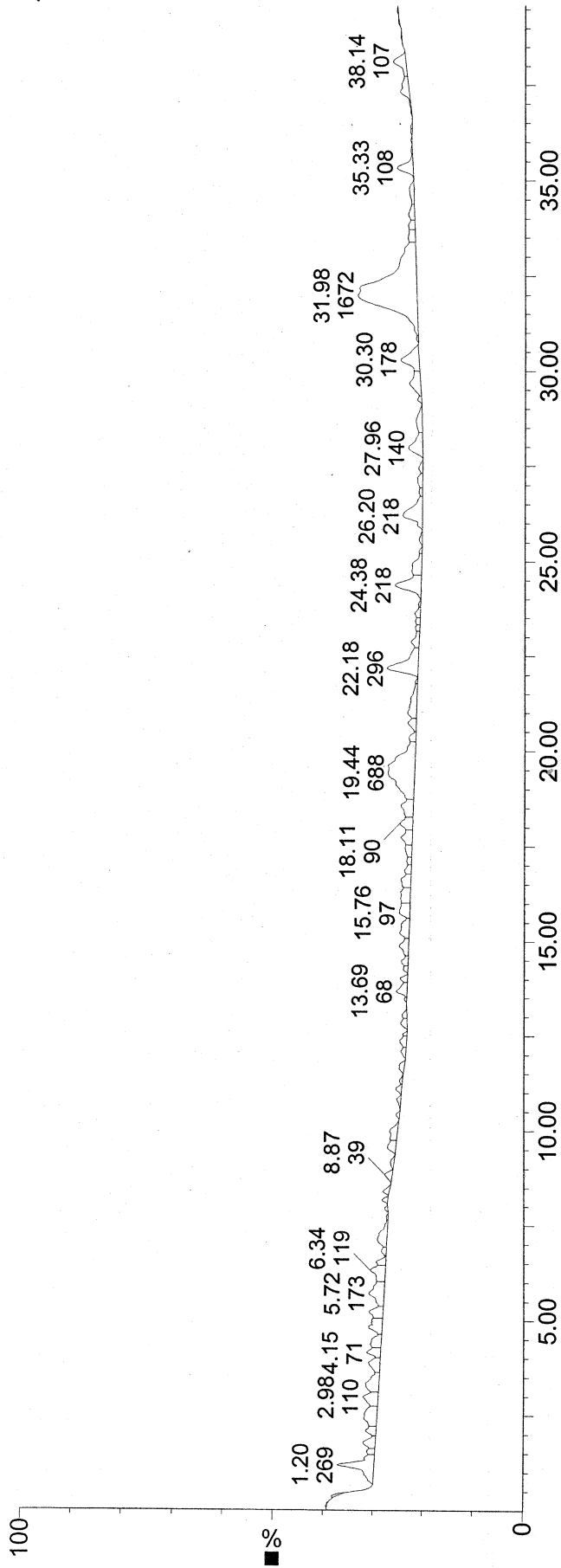
jg-cw-060812-blnc-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
1.51e4
Area



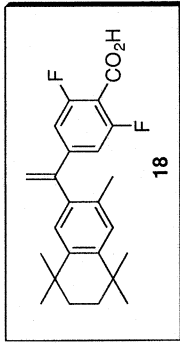
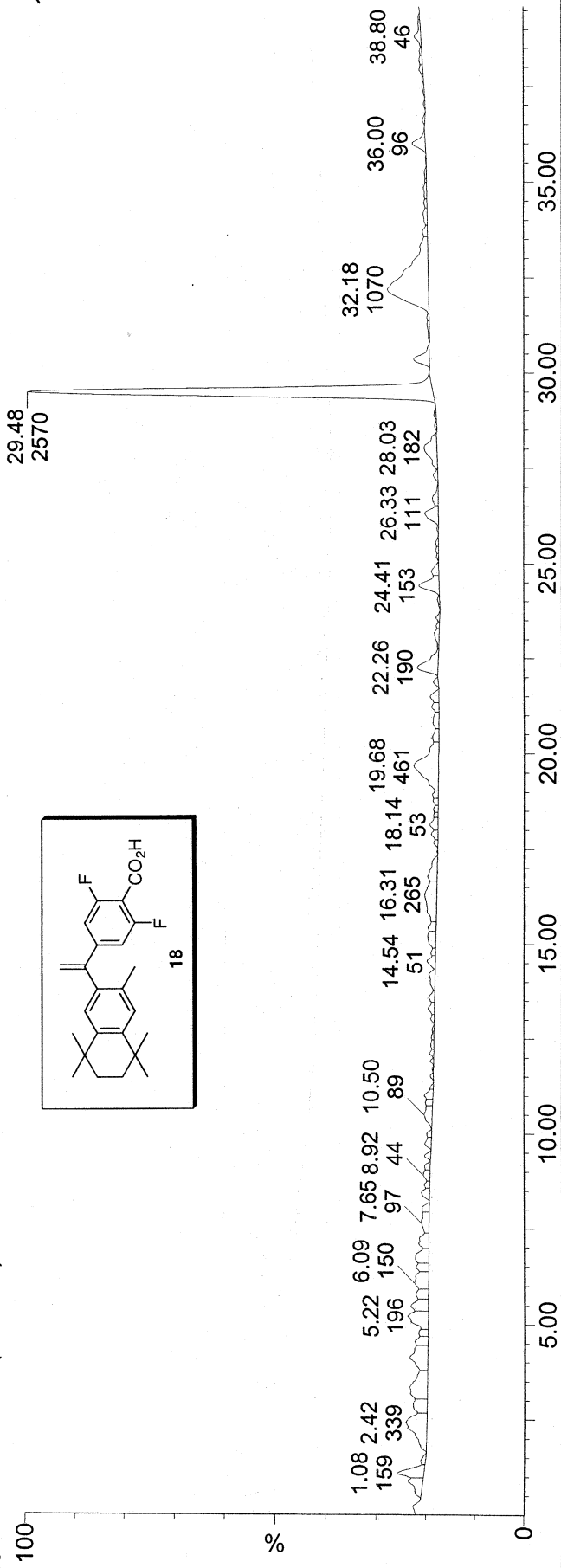
jg-cw-blabk-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
1.33e4
Area



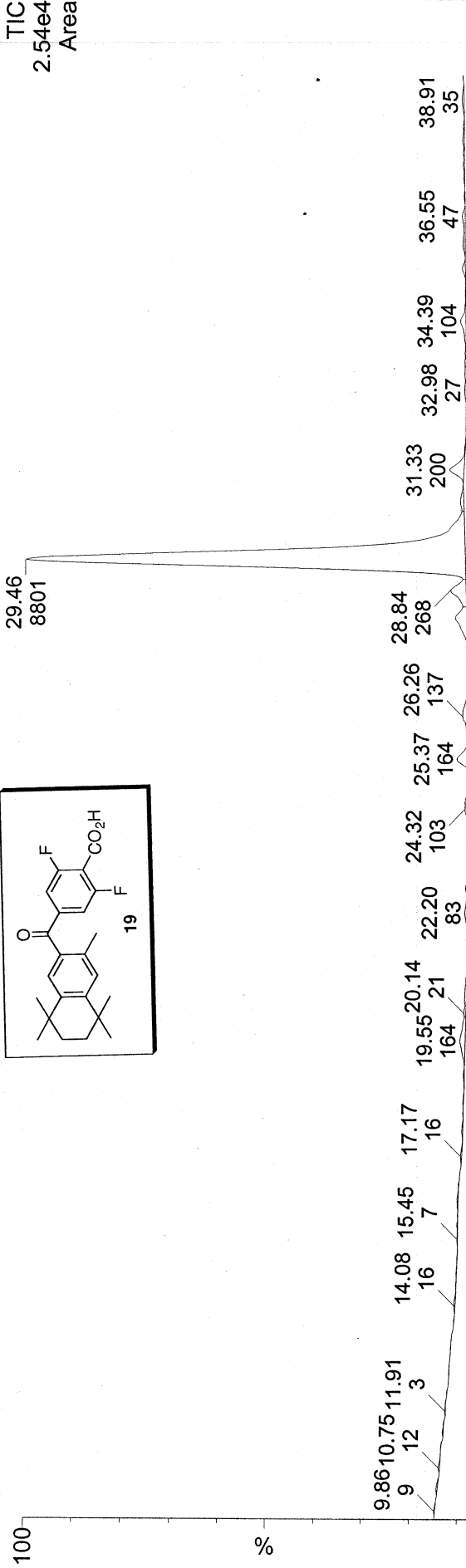
jg-cw-iii-087-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
1.33e4
Area

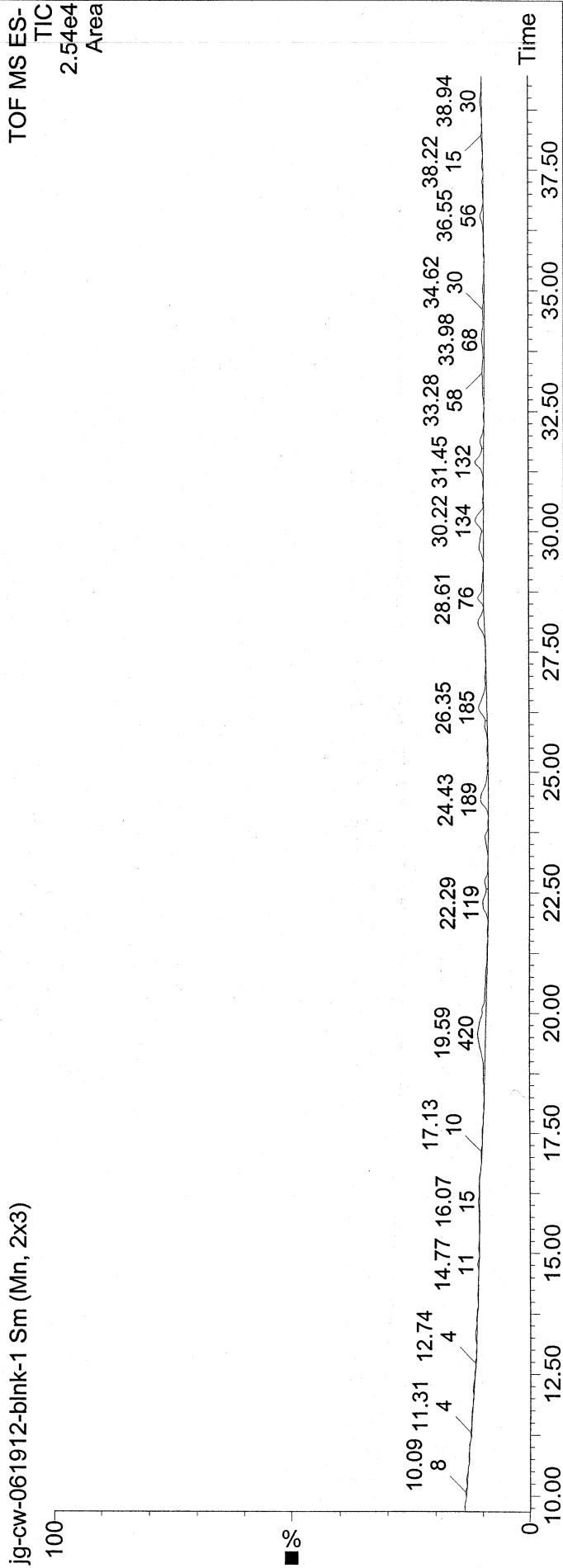


Case IV - 89

jg-cw-061912-cwiv-89-1 Sm (Mn, 2x3)

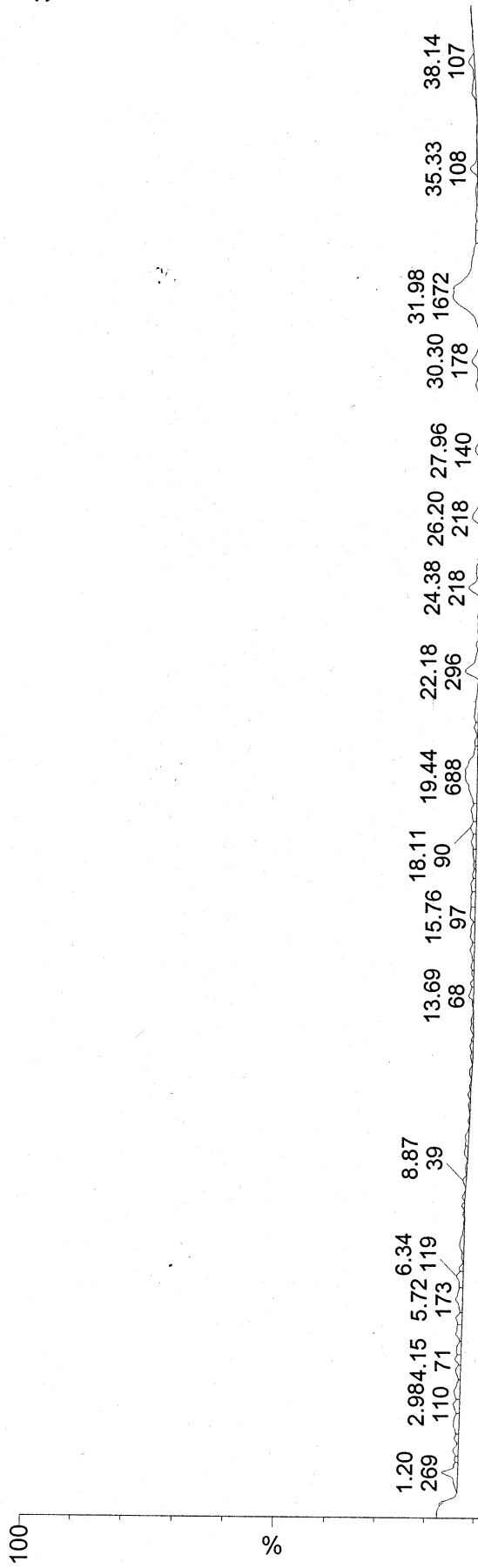


jg-cw-061912-blnc-1 Sm (Mn, 2x3)



jg-cw-blabk-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
3.00e4
Area



jg-cw-ii-069-1 Sm (Mn, 2x3)

TOF MS ES-
TIC
3.00e4
Area

