Supporting Information

Modeling, Synthesis and Biological Evaluation of Potential Retinoid-X-Receptor (RXR) Selective Agonists: Novel Bexarotene Analogs

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Contents

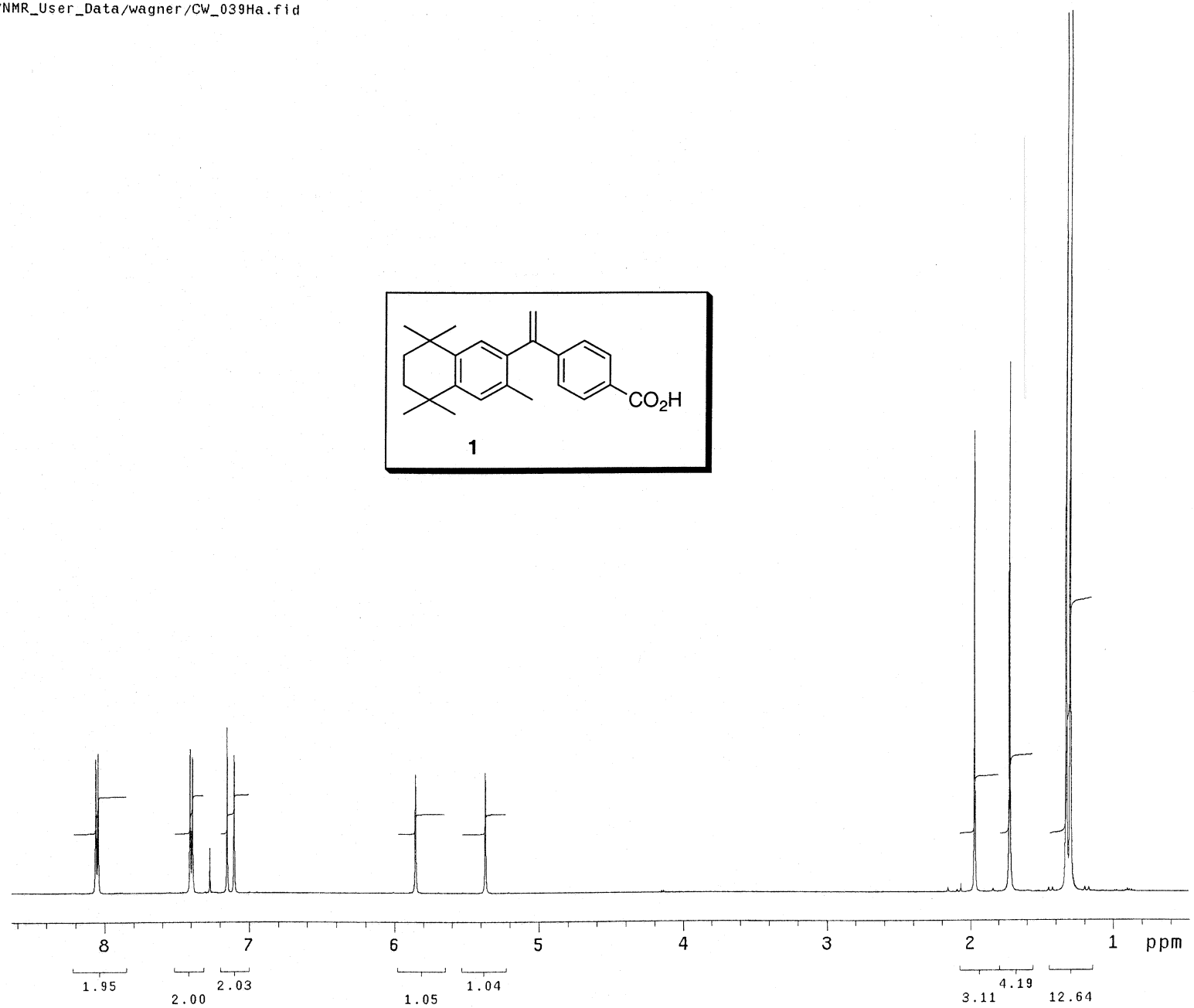
cwI-039

File : home/inova400/NMR_User_Data/wagner/CW_039Ha.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

S2

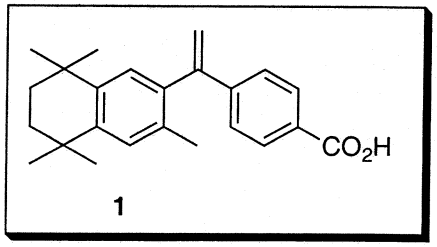
1

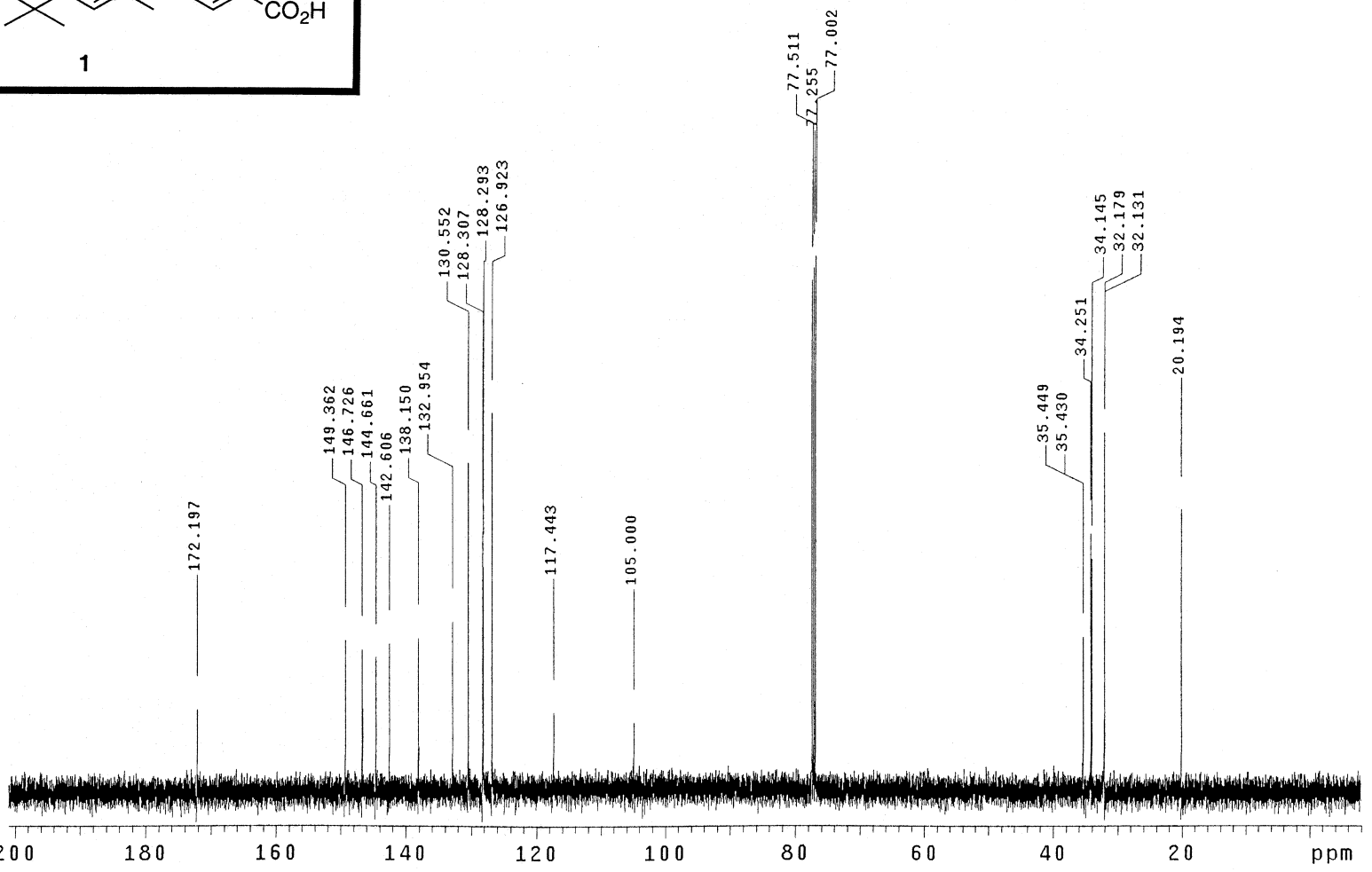


cwI-039

File : home/inova400/NMR_User_Data/wagner/CW_039Ca.fid
Sample id : tmpstudy

Pulse Sequence: s2pul



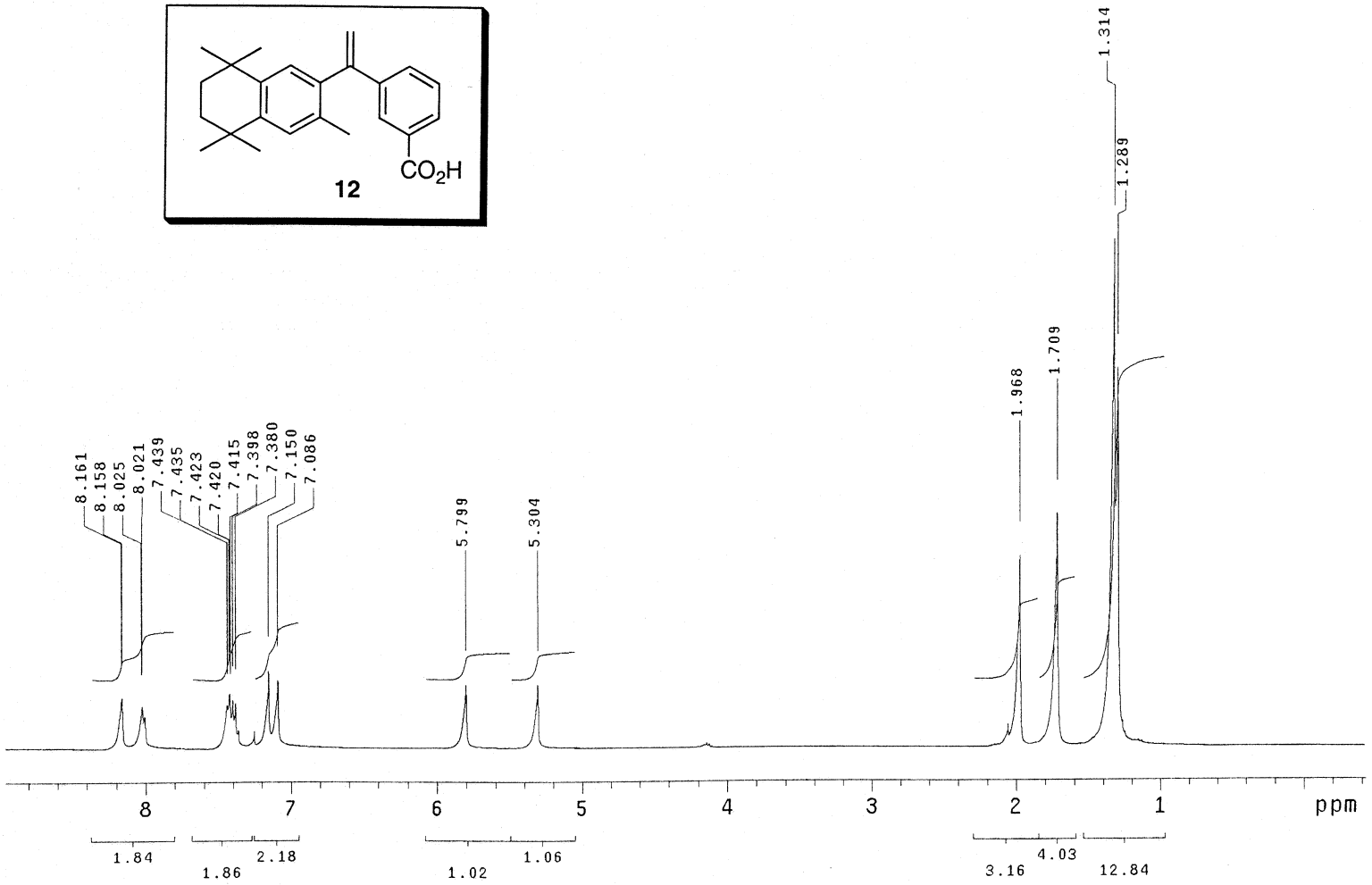


cwI-131

File : home/inova400/NMR_User_Data/wagner/cwI_131H_6august07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

12

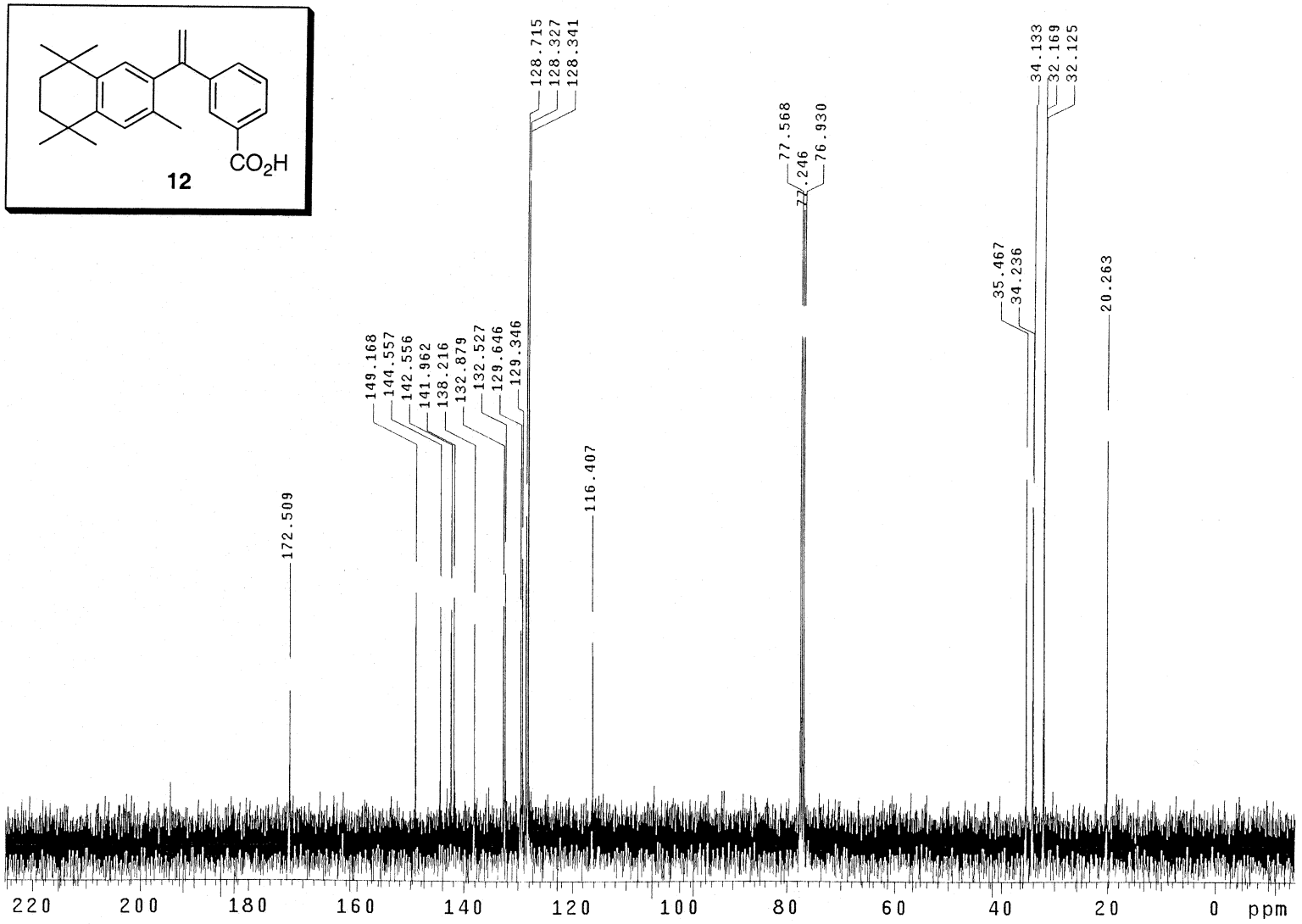


cwI-131

File : home/inova400/NMR_User_Data/wagner/cwI_131C_6august07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

12



S5

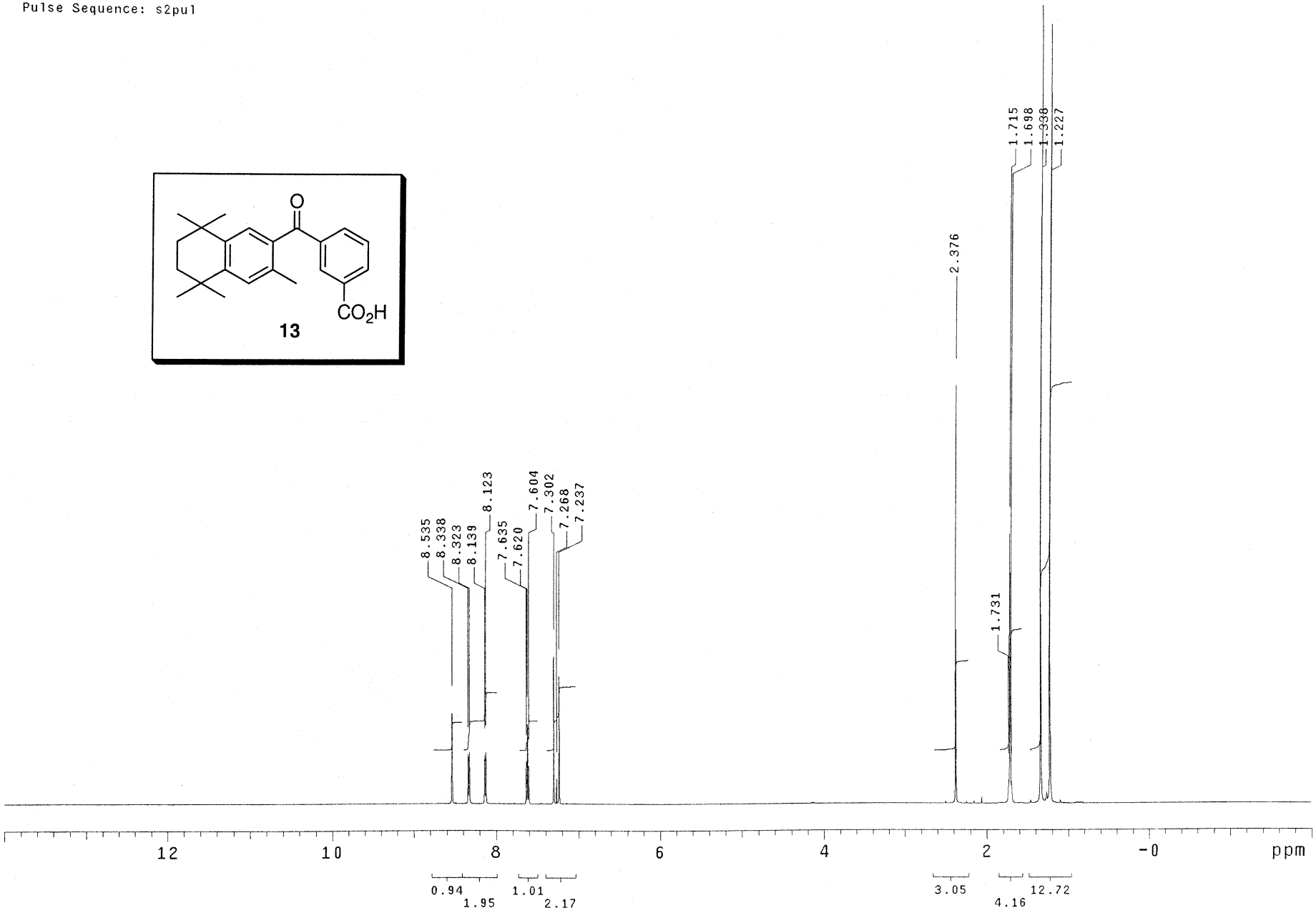
cwI_167

Automation directory: /home/walkup/vnmrsys/data/auto_2007.09.05_03
File : exp
Sample id : tmpstudy

Pulse Sequence: s2pul

13

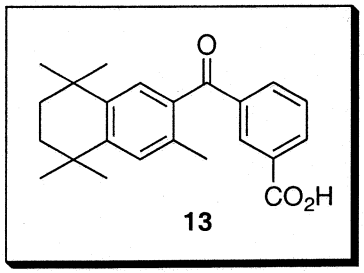
S6



cwI-167

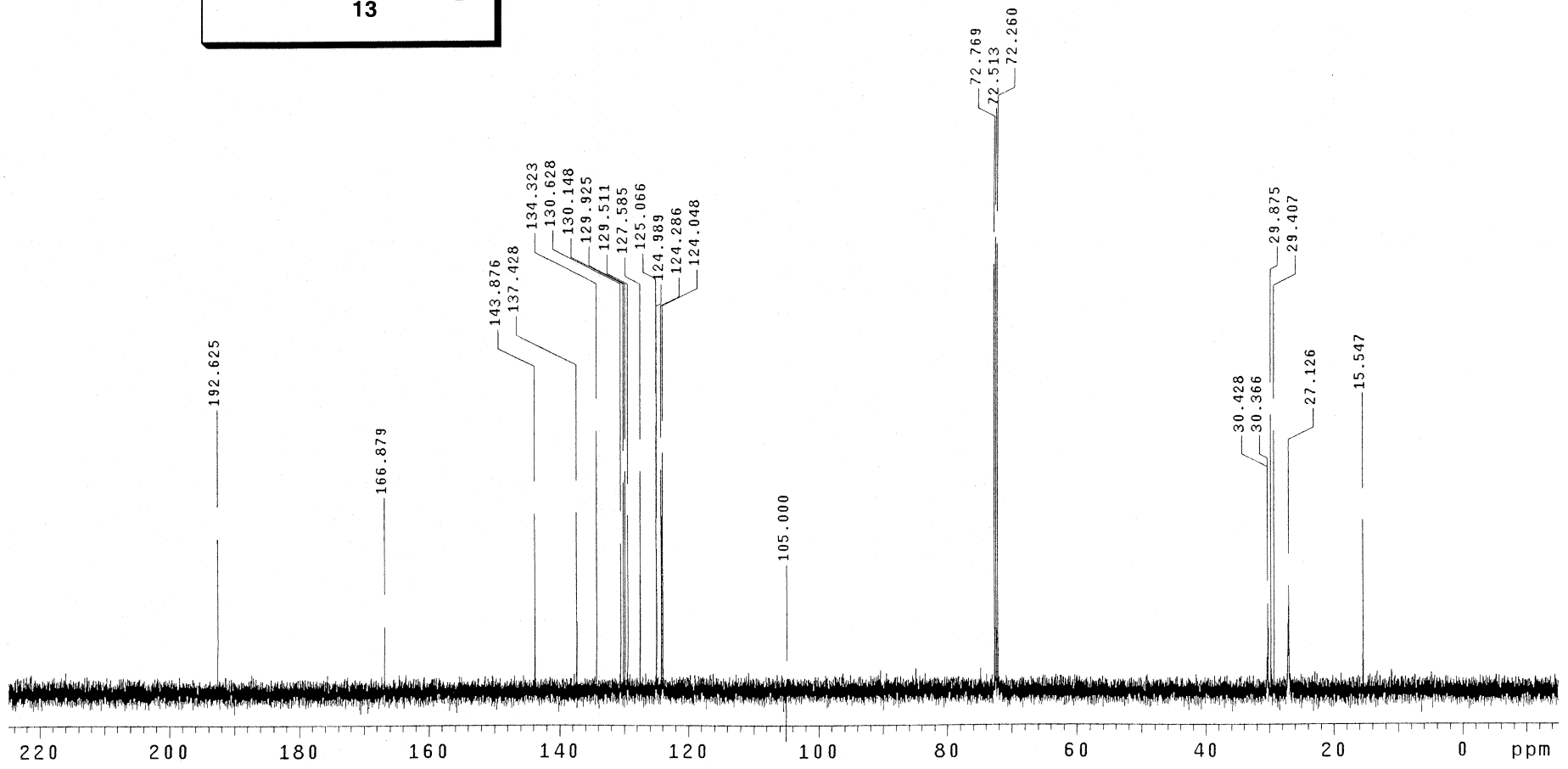
Automation directory: /home/walkup/vnmrsys/data/auto_2007.09.05_03
File : exp
Sample id : tmpstudy

Pulse Sequence: s2pul



13

S7



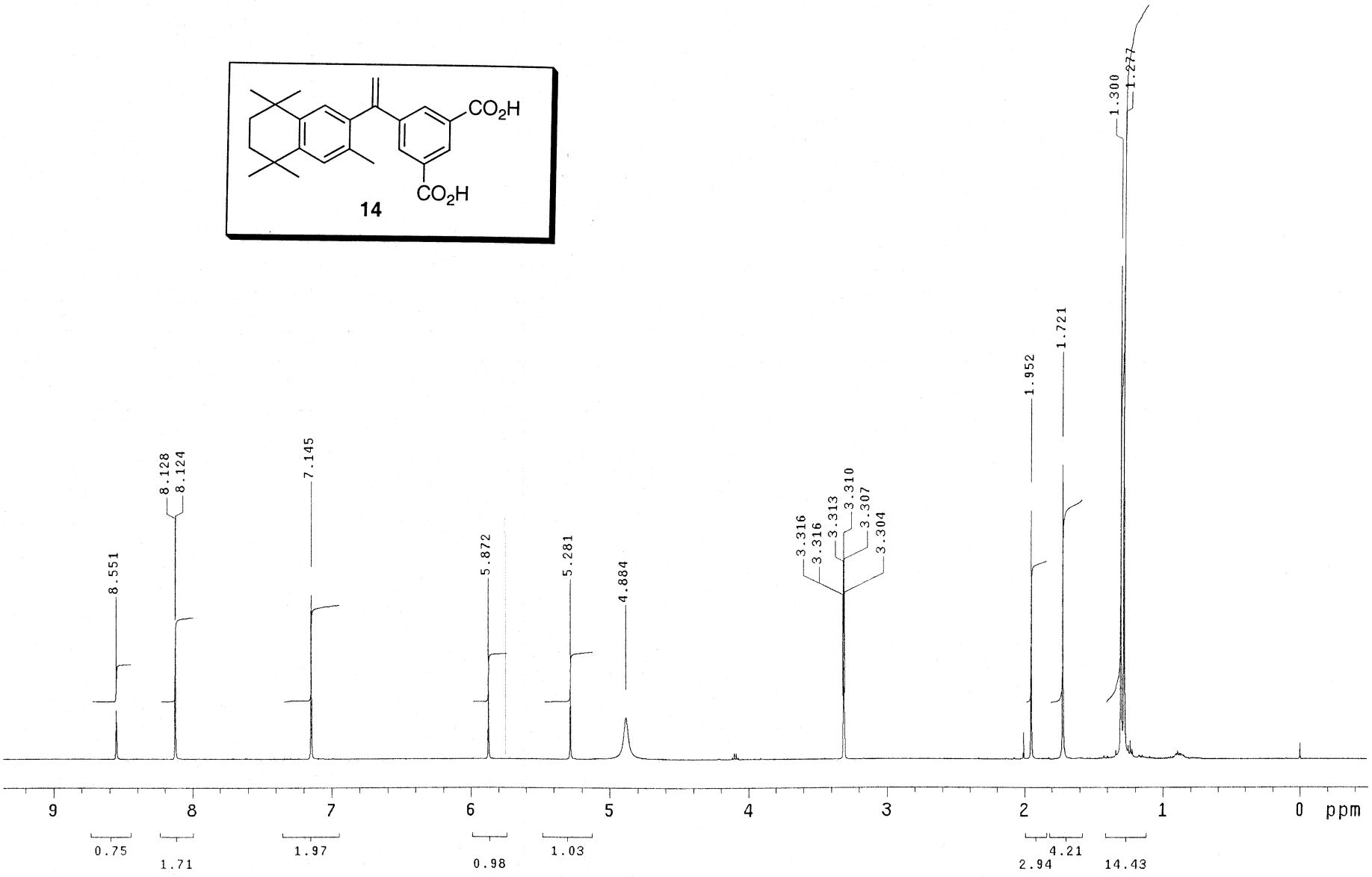
CW-143

File : home/inova400/NMR_User_Data/wagner/CW_143H.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

14

S8



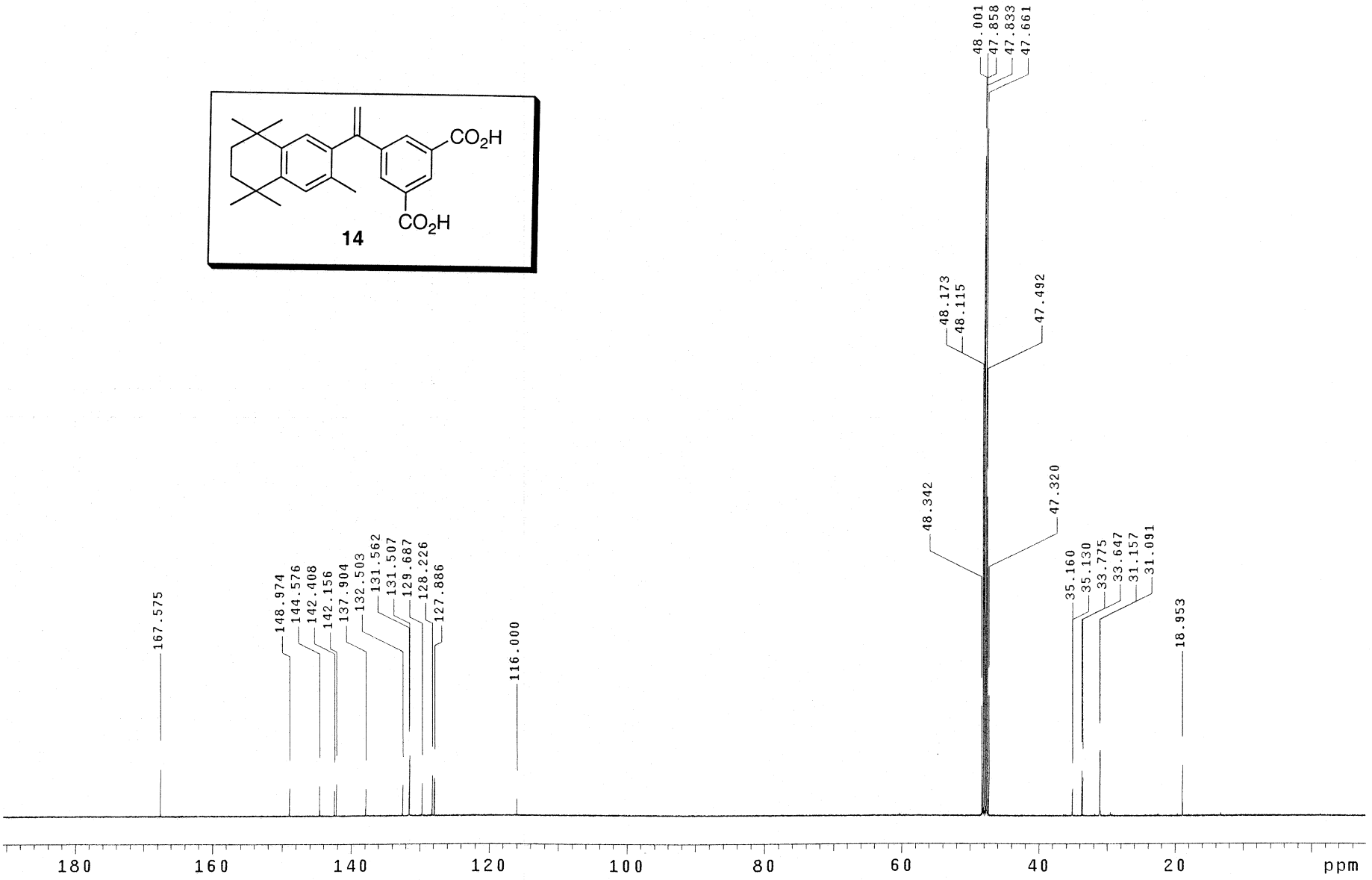
cwI-143

File : home/inova400/NMR_User_Data/wagner/CW_143C.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

14

S9

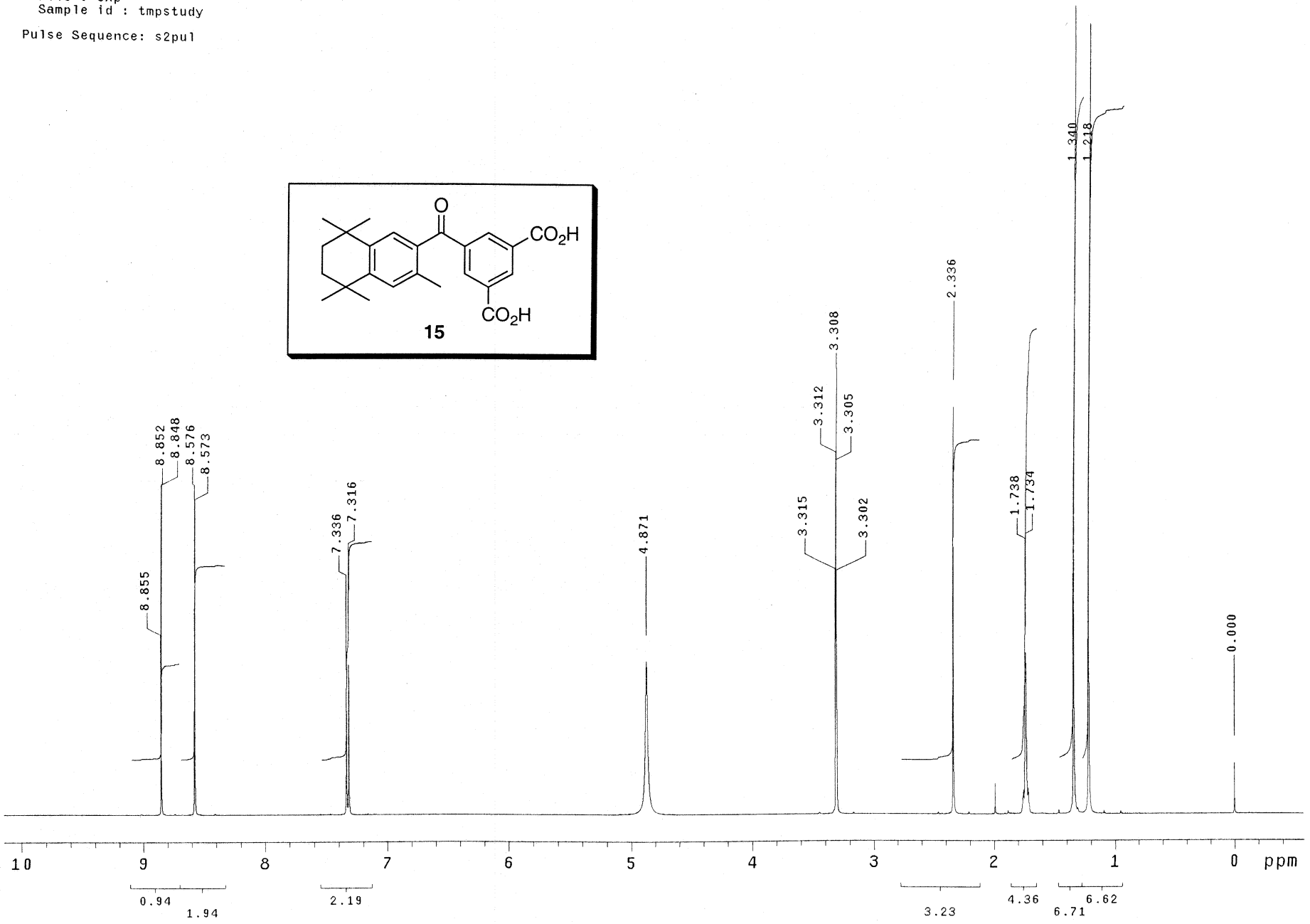


cwI_179

Automation directory: /home/walkup/vnmrsys/data/auto_2007.09.05_03
File : exp
Sample id : tmpstudy

Pulse Sequence: s2pul

15

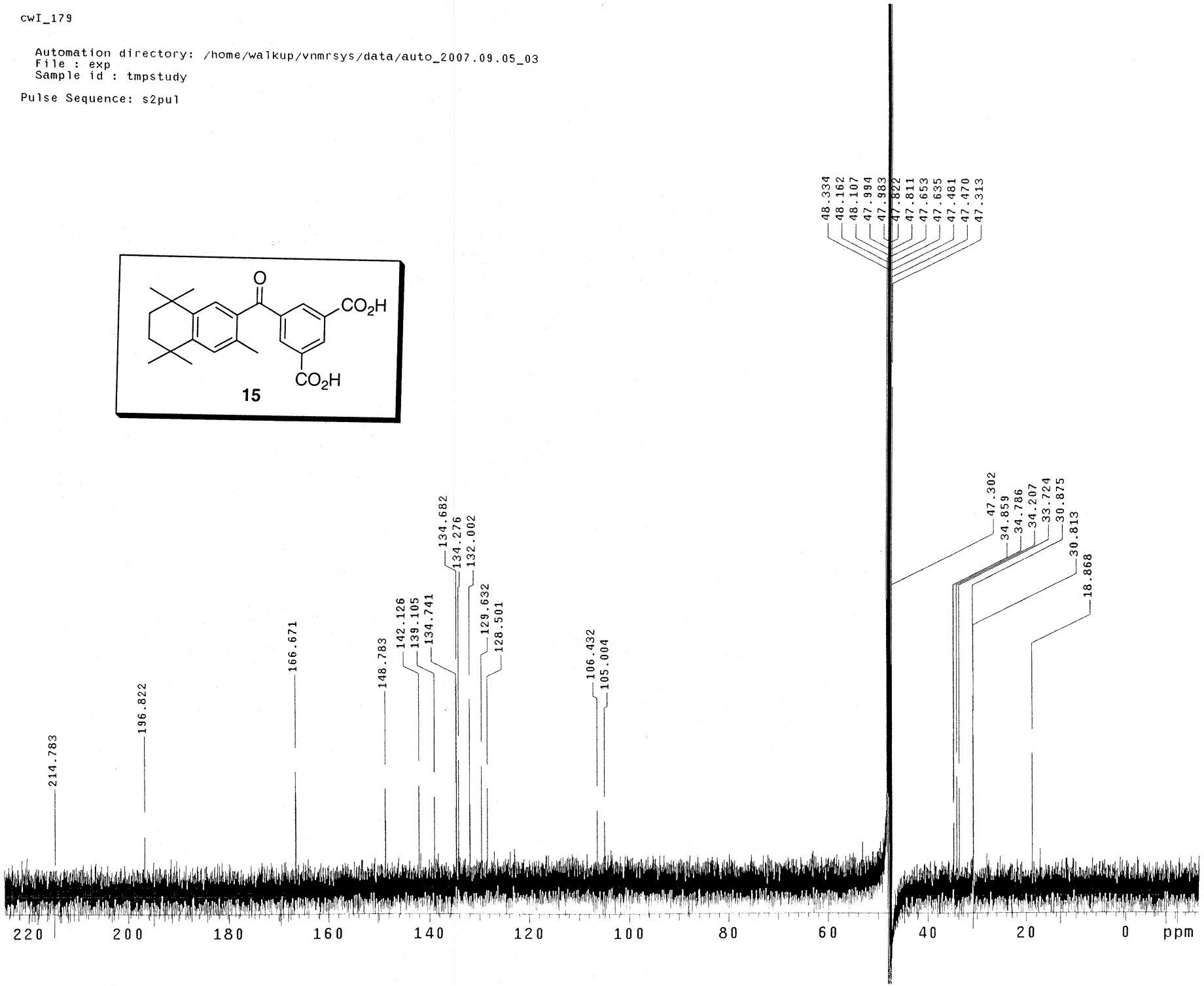


cwI_179

Automation directory: /home/walkup/vnmrsys/data/auto_2007.09.05_03
File : exp
Sample id : tmpstudy

Pulse Sequence: s2pul

15

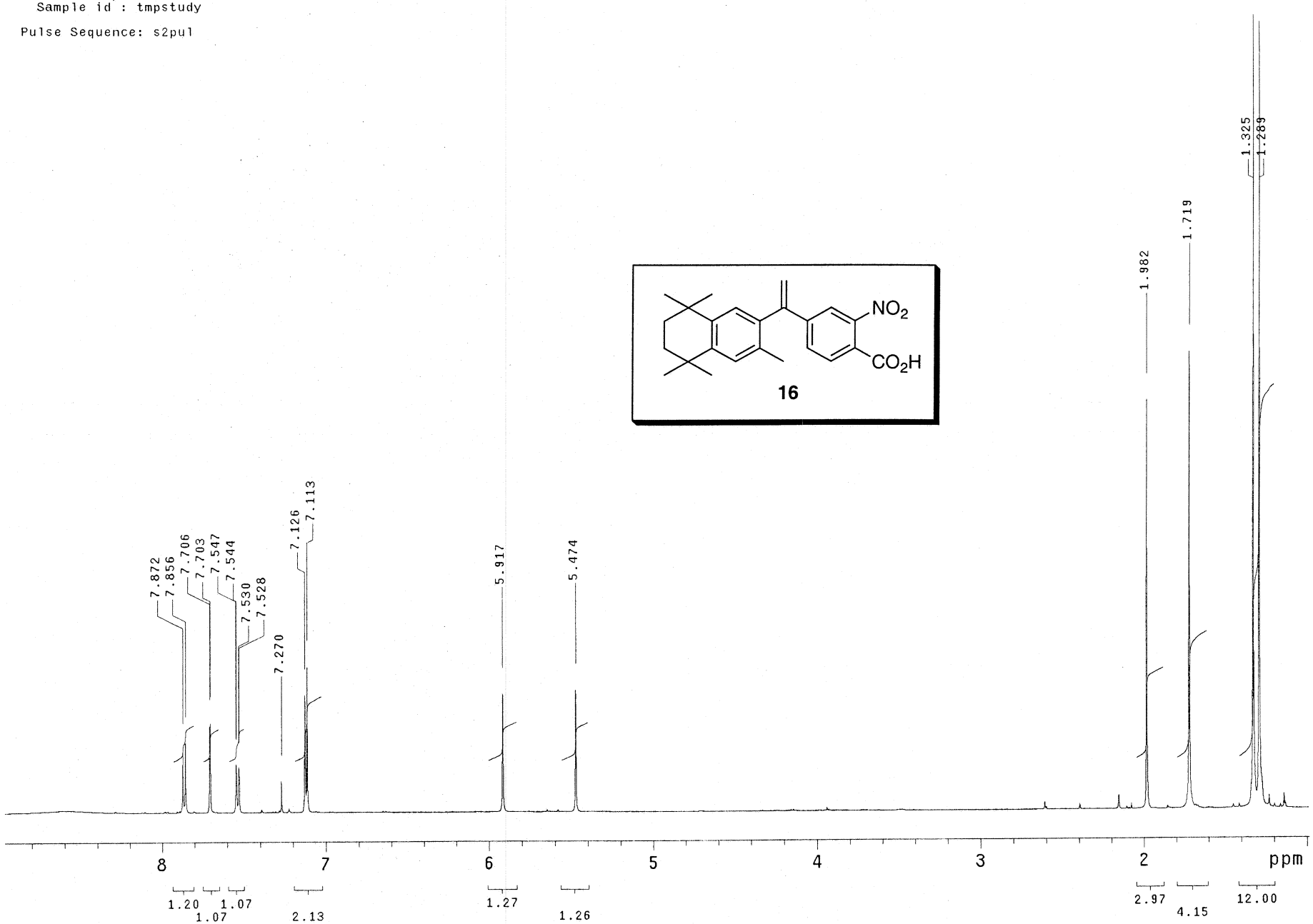


CW-151

Automation directory: /home/walkup/vnmrsys/data/auto_2007.09.05_03
File : exp
Sample id : tmpstudy

Pulse Sequence: s2pul

16

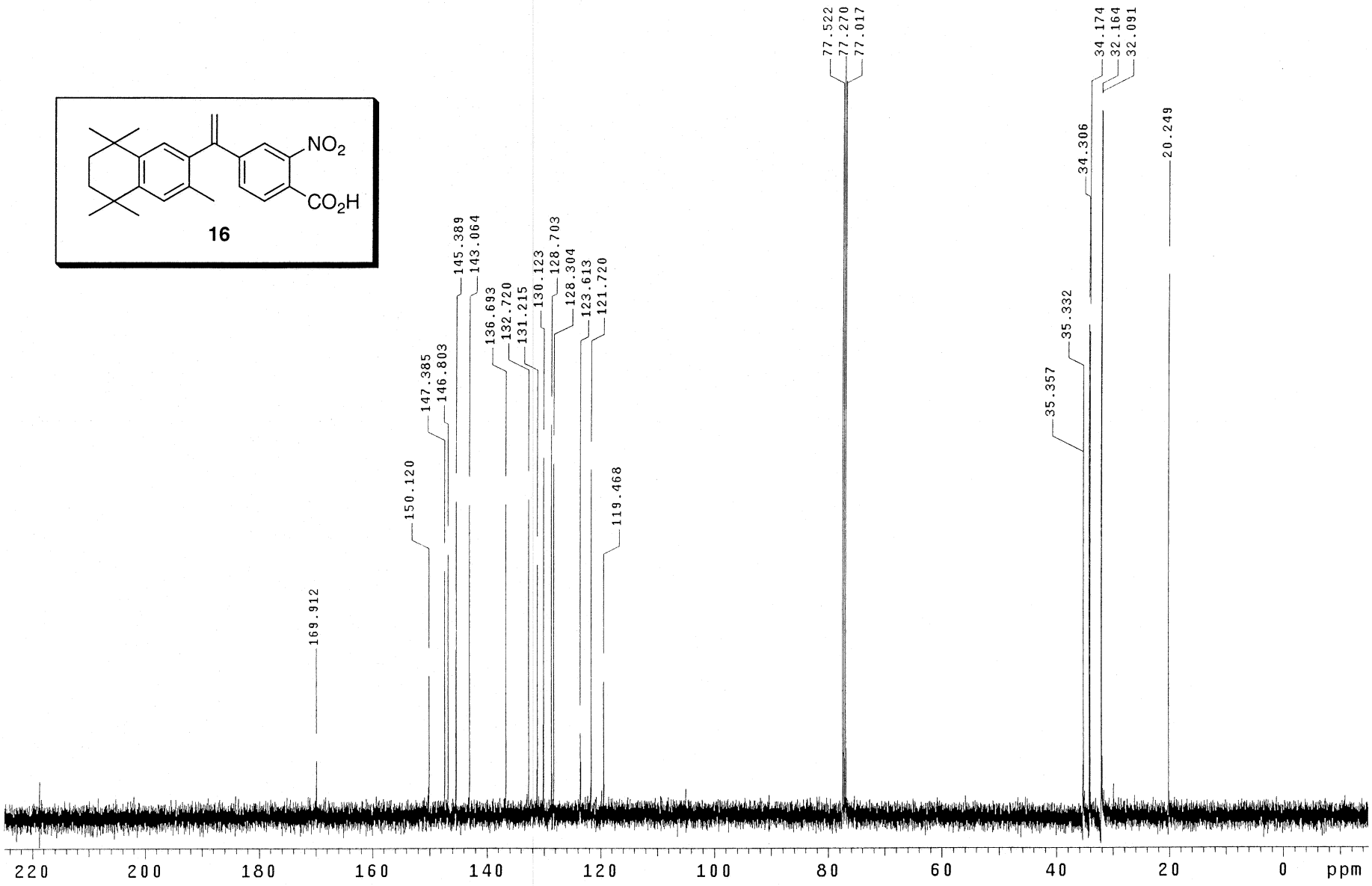


cwI-151

Automation directory: /home/walkup/vnmrsys/data/auto_2007.09.05_03
File : exp
Sample id : tmpstudy

Pulse Sequence: s2pul

16

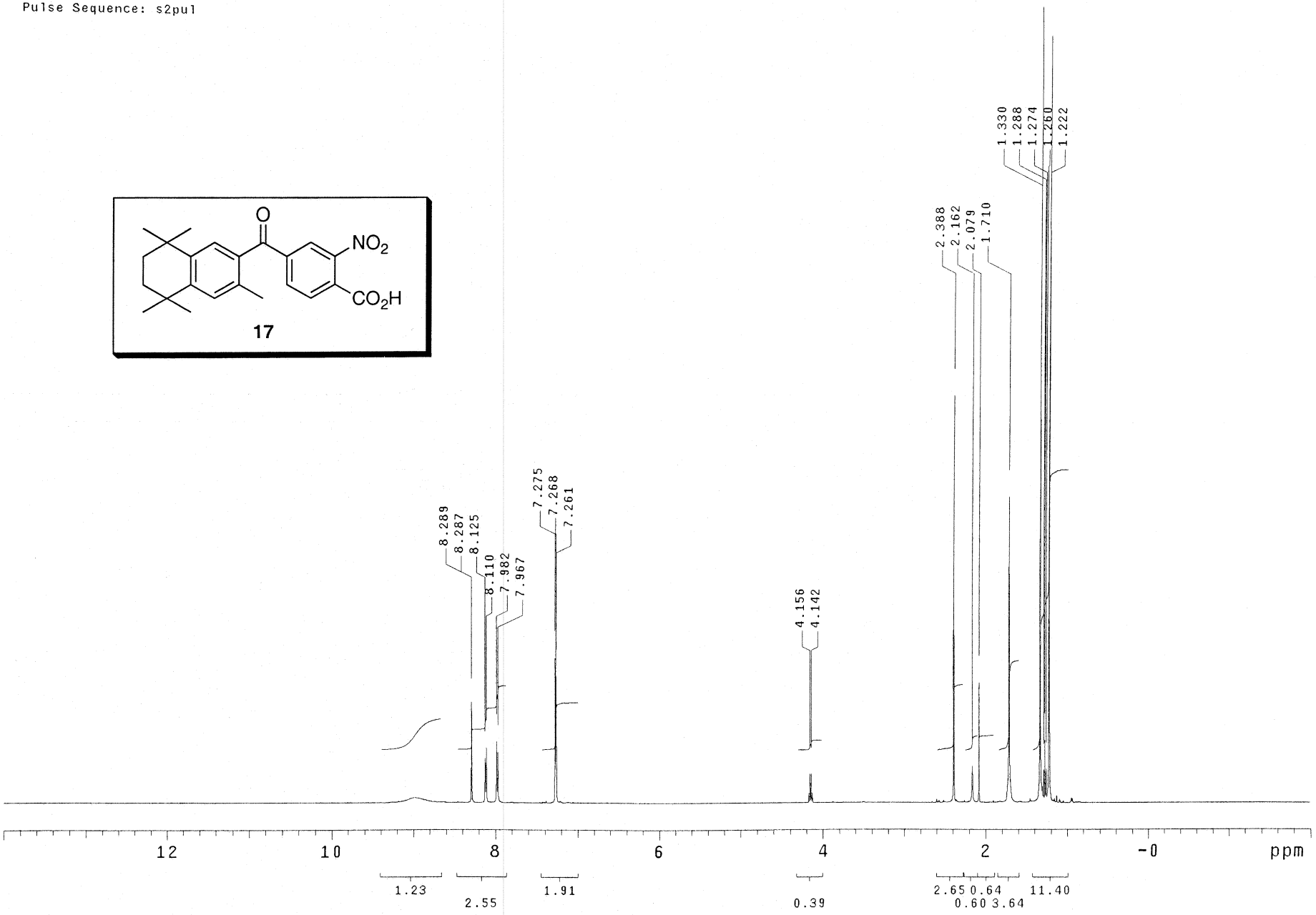


cwI_169

Automation directory: /home/walkup/vnmrsys/data/auto_2007.09.05_03
File : exp
Sample id : tmpstudy

Pulse Sequence: s2pul

17



cwI-169
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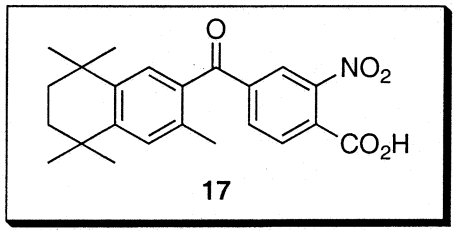
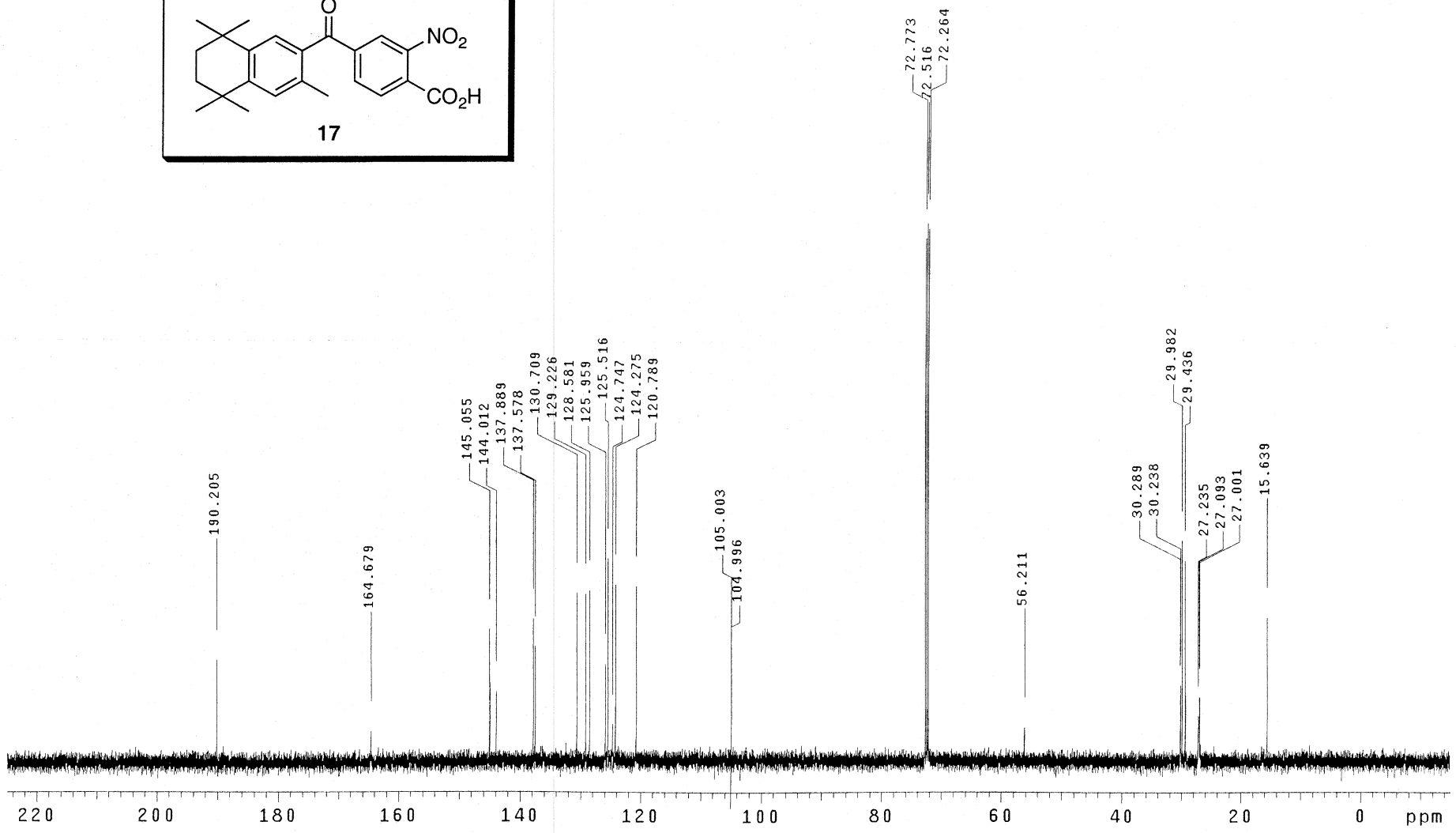
File : exp
Sample id : tmpstudy

Pulse Sequence: s2pul



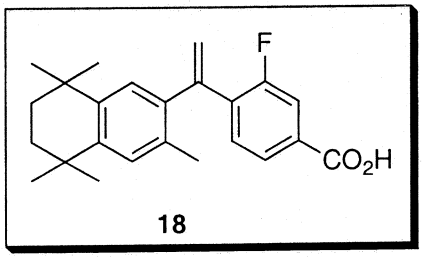
17



CWII-061 1 1 C:\Bruker\TOPSPIN wagner

CWII-061

1H



18

7.8203
7.7955
7.7781
7.2600
7.1595
7.1347
7.1144
7.0677
5.8908
5.5911
1.9928
1.7030
1.3025
1.2869

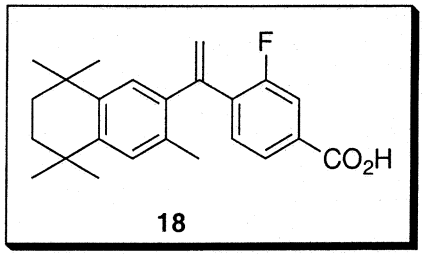
0.5674
1.9873
2.9965
0.9999
0.9934
3.0193
4.0296
12.1715

12
10
8
6
4
2
[ppm]

CWII-061 5 2 C:\Bruker\TOPSPIN wagner

CWII-061
C13

171.0189
170.9969
161.0735
158.5740
144.4640
143.4293
142.4046
138.2223
134.8364
134.7144
132.3401
130.7823
130.7521
129.5612
129.4812
128.1034
127.8330
125.6627
125.6293
121.7348
121.6616
117.8647
117.6128
77.3204
77.0023
76.6851
35.1625
33.9802
33.8880
31.9097
31.8492
19.7792



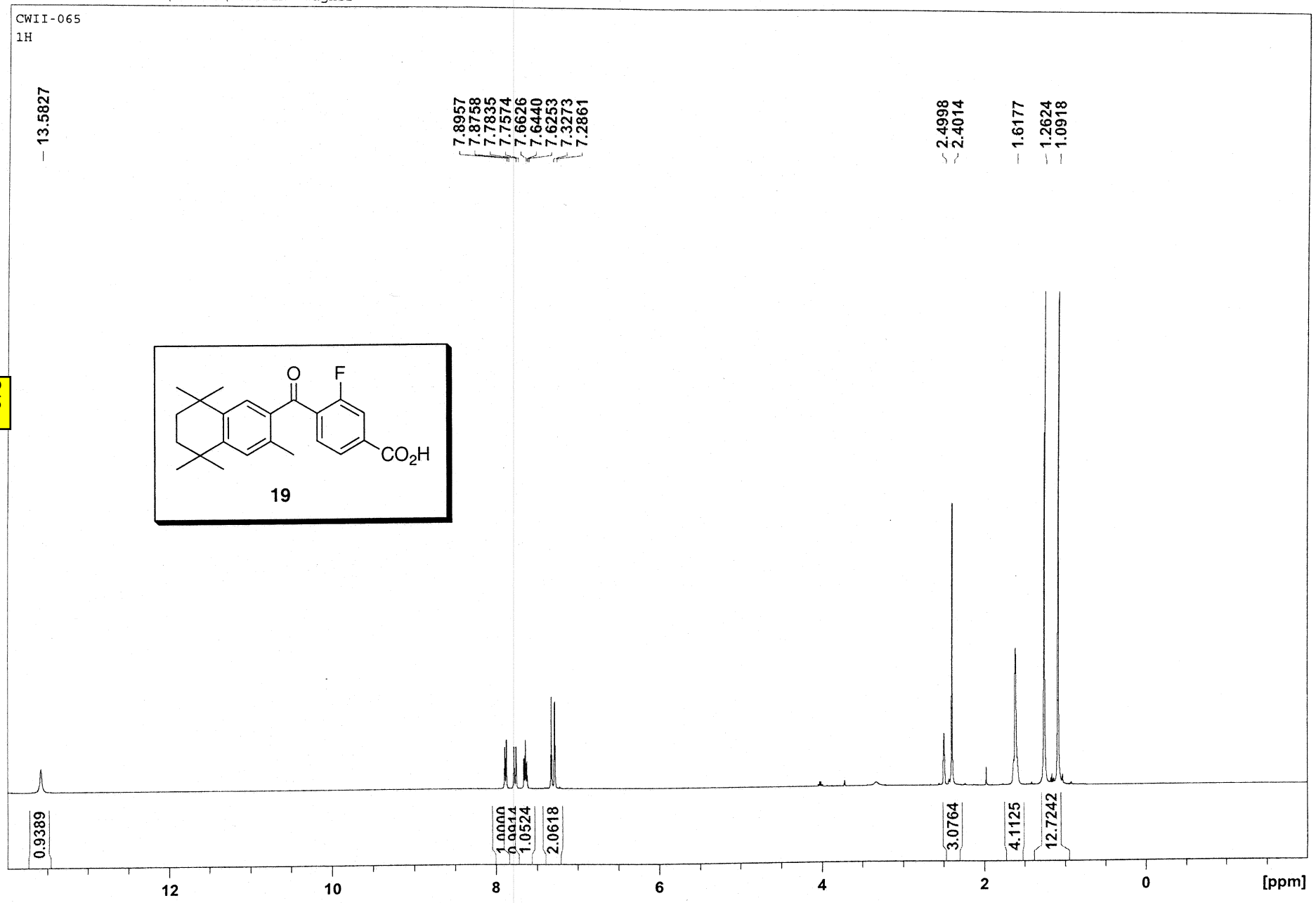
18

S17

200 150 100 50 0 [ppm]

CWII-065 1 1 C:\Bruker\TOPSPIN wagner

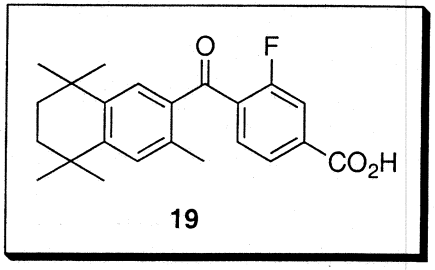
CWII-065
1H



CWII-065 2 1 C:\Bruker\TOPSPIN wagner

CWII-065
C13

193.5564
165.6647
160.4420
157.9412
149.4128
141.9191
135.6482
135.5731
135.1088
133.9672
131.4939
131.3512
131.0163
129.7863
129.5833
125.3805
116.9217
116.6882
40.1343
39.9255
39.7166
39.5080
39.2991
39.0902
38.8820
34.2547
34.1418
33.4552
31.2729
31.1585
20.3164



19

S19

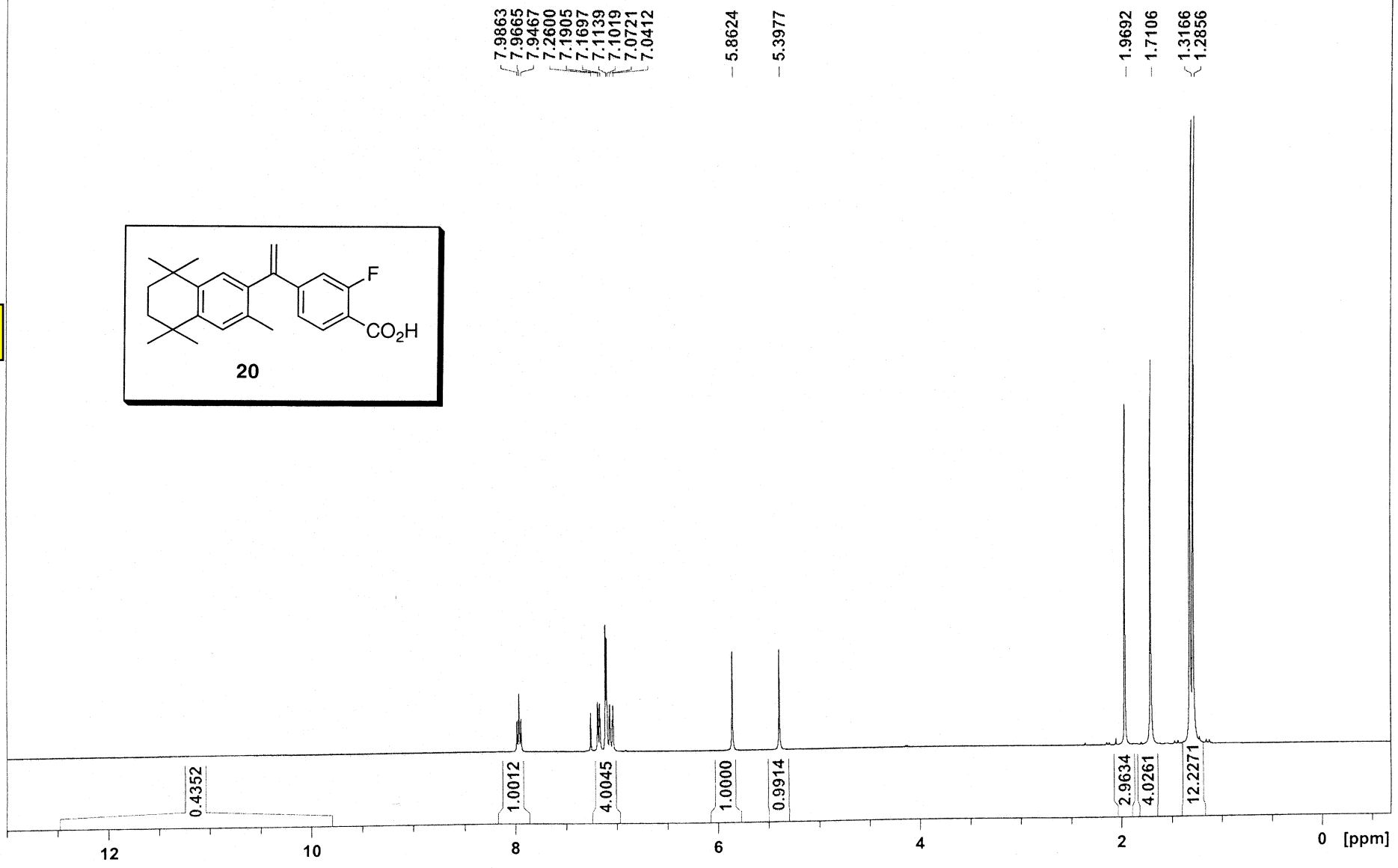
200 150 100 50 0 [ppm]

CWII-063 1 1 C:\Bruker\TOPSPIN wagner

CWII-063

1H

20

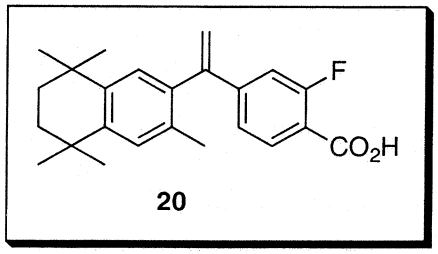


CWII-063 2 1 C:\Bruker\TOPSPIN wagner

CWII-063

C13

169.4354
169.4012
164.0461
161.4486
149.0012
148.9154
148.0307
144.7246
142.5196
137.1591
132.6900
132.6042
128.1828
128.0156
122.1773
122.1445
118.1866
115.9926
115.8987
115.1365
114.9057
77.3146
76.9973
76.6793
35.1412
35.1215
34.0105
33.8878
31.9108
31.8526
19.8696



20

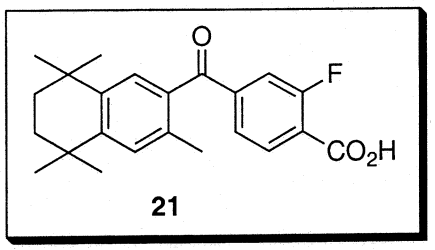
S21

200 150 100 50 0 [ppm]

CWII-067 1 1 C:\Bruker\TOPSPIN wagner

CWII-067

1H



21

8.1454
8.1267
8.1081
7.6491
7.6262
7.5955
7.2736
7.2602
7.2286

2.3636
1.7022
1.3203
1.2187

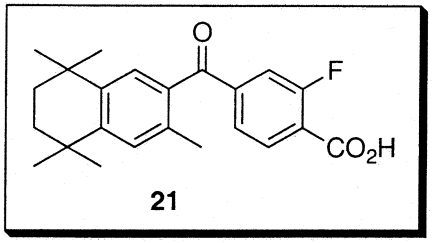
0.7171
0.9810
1.9680
2.2000
3.0000
4.1551
12.4282

12
10
8
6
4
2
0
[ppm]

CWII-067 2 1 C:\Bruker\TOPSPIN wagner

CWII-067
C13

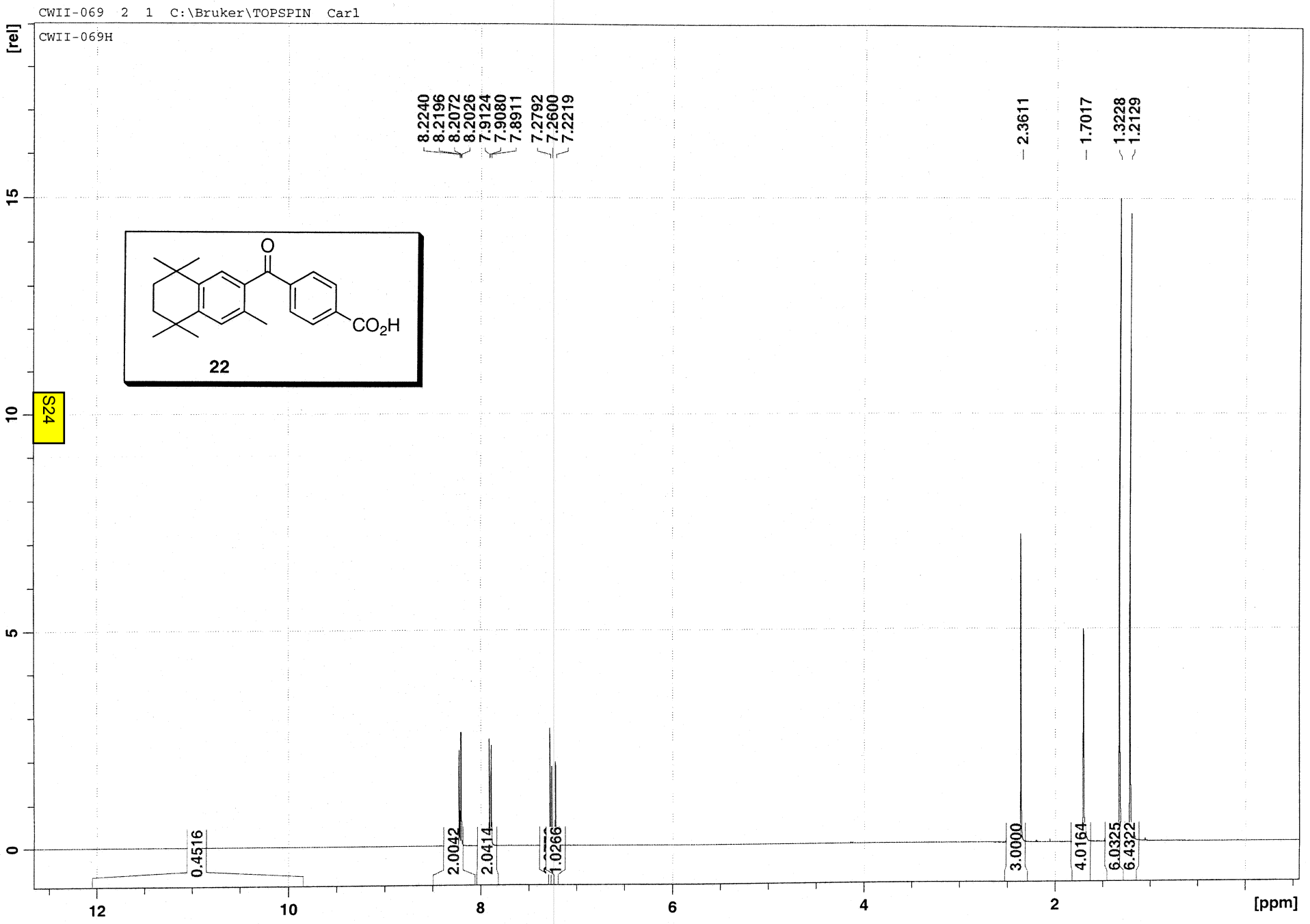
196.0789
168.8302
168.7964
163.5662
160.9424
148.9763
144.9160
144.8456
142.1251
134.8310
133.8683
132.7570
129.6792
128.5622
125.3271
125.2880
120.7280
120.6324
118.5532
118.3199
34.8354
34.7840
34.4122
33.9062
31.6832
31.5731
20.0814

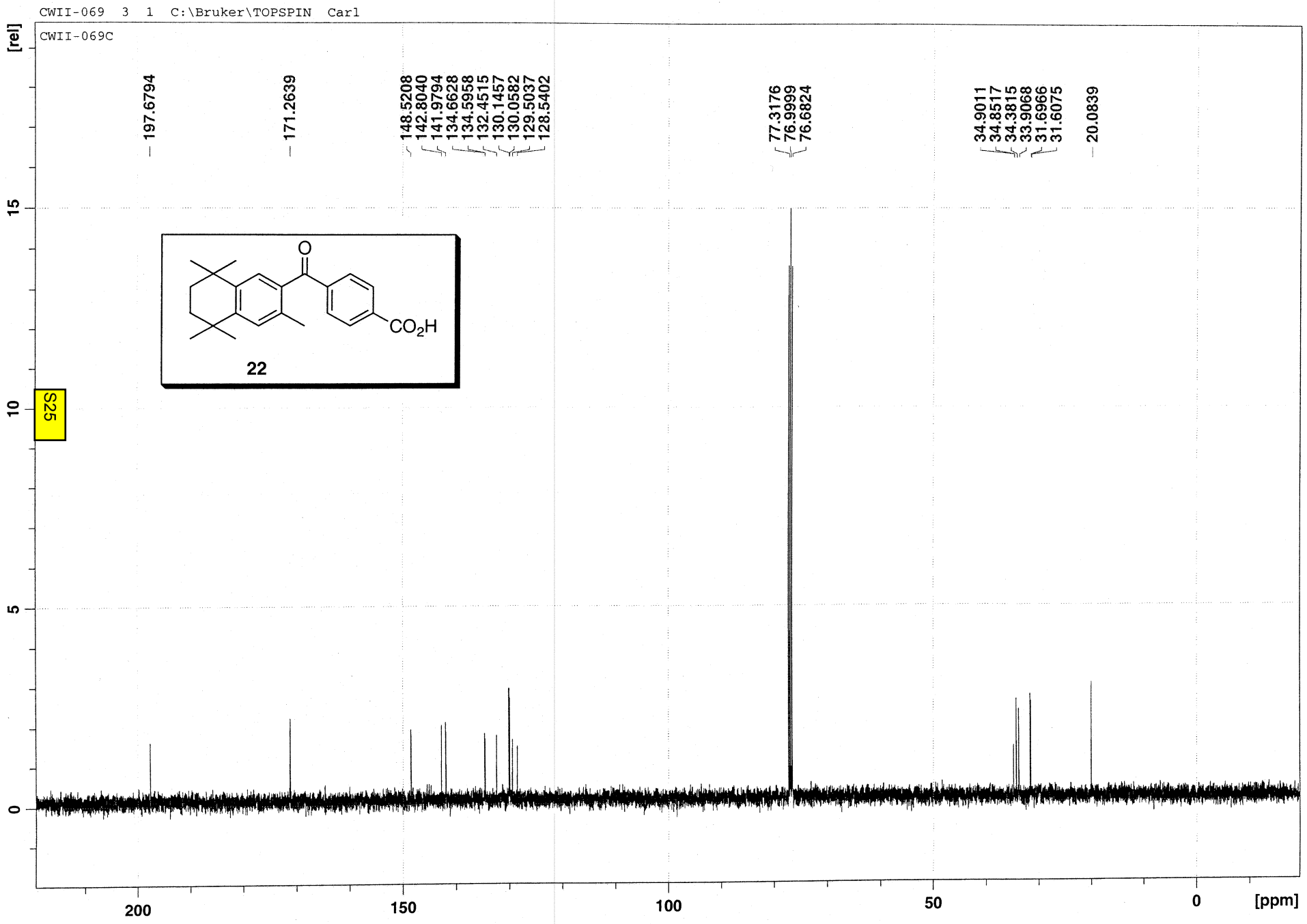


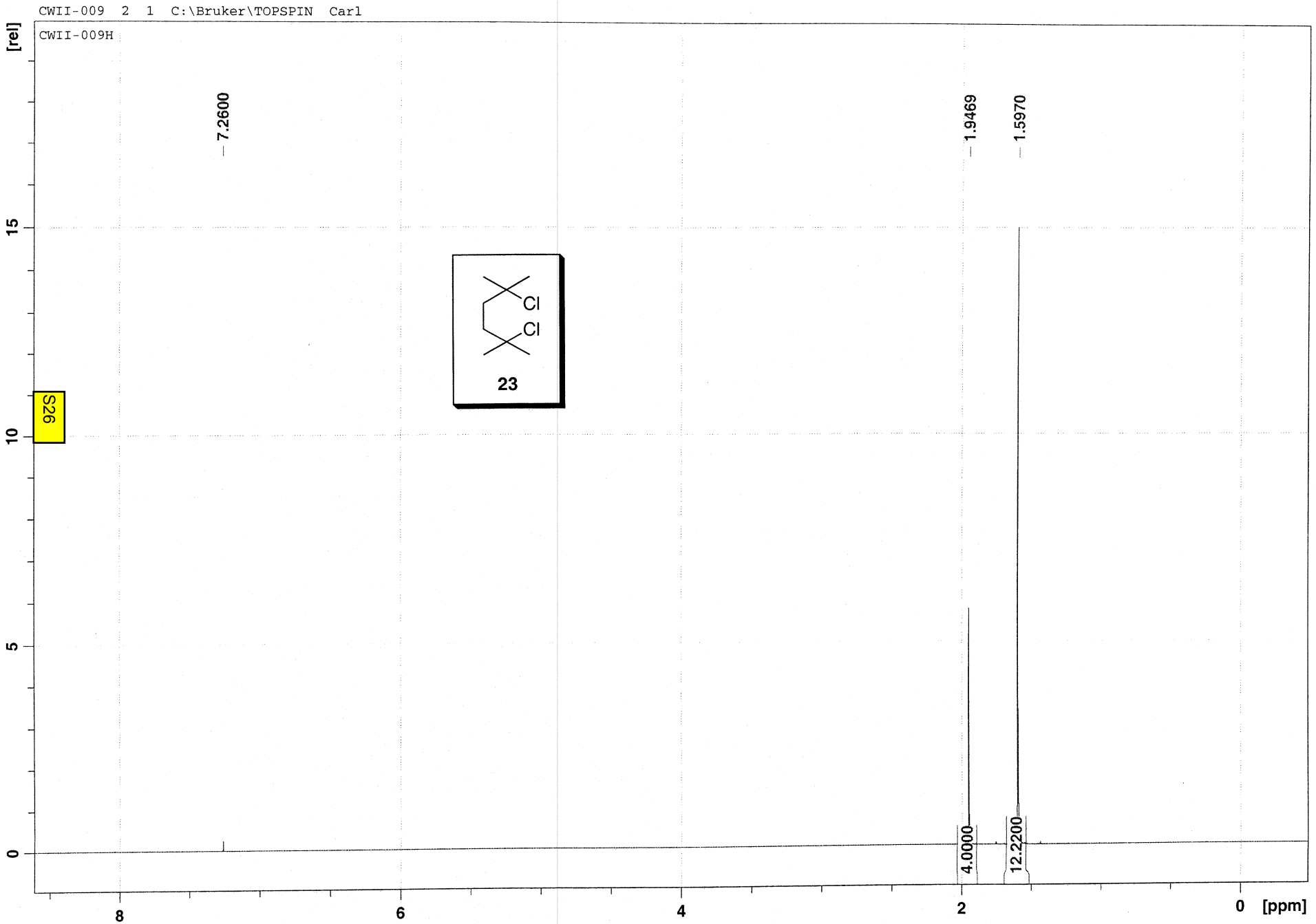
21

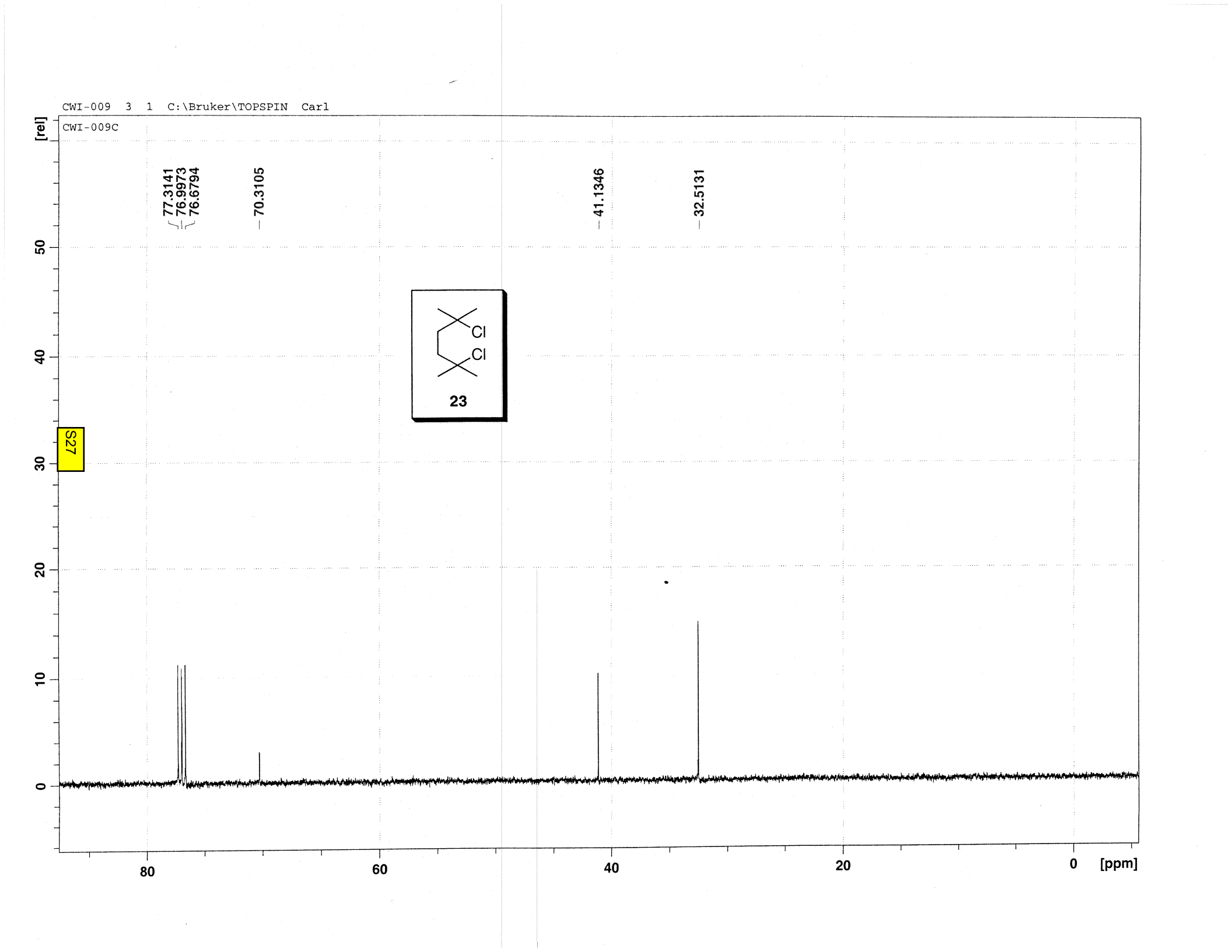
S23

200 150 100 50 0 [ppm]


CWII-069 2 1 C:\Bruker\TOPSPIN Carl
CWII-069H
[rel]
8.2240
8.2196
8.2072
8.2026
7.9124
7.9080
7.8911
7.2792
7.2600
7.2219
2.3611
1.7017
1.3228
1.2129
O
CO2H
22
S24
0.4516
2.0042
2.0414
1.0266
3.0000
4.0164
6.0325
6.4322
12
10
8
6
4
2
[ppm]


CWII-069 3 1 C:\Bruker\TOPSPIN Carl
CWII-069C
[rel]
197.6794
171.2639
148.5208
142.8040
141.9794
134.6628
134.5958
132.4515
130.1457
130.0582
129.5037
128.5402
77.3176
76.9999
76.6824
34.9011
34.8517
34.3815
33.9068
31.6966
31.6075
20.0839
O
CO2H
22
S25
0
5
10
15
200
150
100
50
0
[ppm]

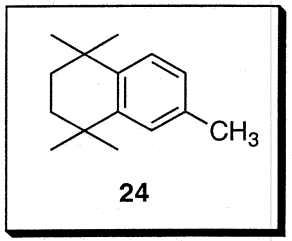

CWII-009 2 1 C:\Bruker\TOPSPIN Carl
CWII-009H
[rel]
7.2600
1.9469
1.5970
Cl
Cl
23
S26
4.0000
12.2200
0
5
10
15
8
6
4
2
0
[ppm]


CWI-009 3 1 C:\Bruker\TOPSPIN Carl
CWI-009C
[rel]
77.3141
76.9973
76.6794
70.3105
41.1346
32.5131
Cl
Cl
23
S27
0
10
20
30
40
50
80
60
40
20
0
[ppm]

AVB-400 ZBO Proton starting parameters. 6/11/03 RN

7.260
7.229
7.209
7.127
6.981
6.960

2.315
1.688
1.554
1.291
1.282



24

S28

Current Data Parameters
NAME cwI-015Ha
EXPNO 1
PROCNO 1
DU /u
USER cwagner

F2 - Acquisition Parameters
Date_ 20060705
Time 13.07
INSTRUM AVB-400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 0
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9534243 sec
RG 101.6
DW 60.400 use
DE 6.00 use
TE 297.5 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

======== CHANNEL f1 =======
NUC1 1H
P1 8.20 use
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300177 MHz
WDW EM

8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 ppm

1.00
1.06
1.07
3.45
4.61
0.59
14.04

AVB-400 BBO Carbon Stapling paramters 6/11/03 RN

144.62
141.79
134.72
126.98
126.51
126.40
77.31
76.99
76.68
35.19
35.13
34.10
33.87
31.91
31.84
21.12

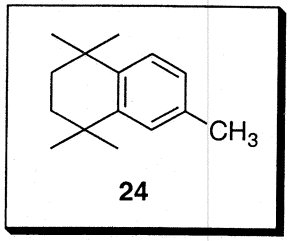
Current Data Parameters
NAME cw-015Cb
EXPNO 1
PROCNO 1
DU /u
USER cwagner

F2 - Acquisition Parameters
Date_ 20060705
Time 17.59
INSTRUM AVB-400
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 64
DS 0
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 16384
DW 20.850 usec
DE 6.00 usec
TE 294.8 K
D1 1.50000000 sec
d11 0.03000000 sec
DELTA 1.39999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

======== CHANNEL f1 ========
NUC1 13C
P1 8.50 usec
PL1 -2.00 dB
SFO1 100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 70.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127766 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40



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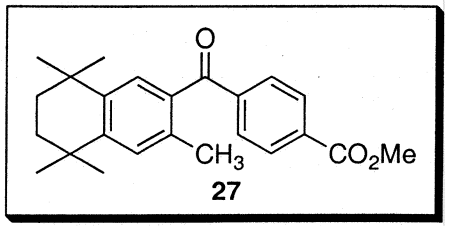
S29

170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm

AVB-400 ZBO Proton starting parameters. 6/11/03 RN

8.175
8.171
8.159
8.154
7.913
7.908
7.896
7.891
7.303
7.252
4.002
2.389
1.736
1.645
1.358
1.243

S30



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Current Data Parameters
NAME cwI-019Ha
EXPNO 1
PROCNO 1
DU /u
USER cwagner

F2 - Acquisition Parameters
Date_ 20060731
Time 18.07
INSTRUM AVB-400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 0
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 143.7
DW 60.400 use
DE 6.00 use
TE 294.5 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

======== CHANNEL f1 =======
NUC1 1H
P1 8.20 use
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300000 MHz
WDW EM

8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 ppm

2.00
2.01
1.33
1.00
2.99
3.01
3.99
0.42
6.05
6.08

AVB-400 ZBO Carbon Starting paramters 6/11/03 RN

197.72
166.38
148.35
141.95
141.89
134.71
134.57
133.41
129.98
129.48
129.43
128.47
77.31
76.99
76.68
52.42
34.89
34.84
34.35
33.88
31.67
31.60
20.03

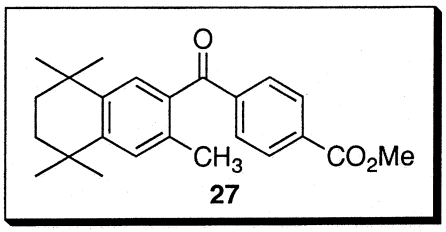
Current Data Parameters
NAME cwI-019Cb
EXPNO 1
PROCNO 1
DU /u
USER cwagner

F2 - Acquisition Parameters
Date_ 20060731
Time 18.17
INSTRUM AVB-400
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 128
DS 0
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 11585.2
DW 20.850 usec
DE 6.00 usec
TE 295.4 K
D1 1.50000000 sec
d11 0.03000000 sec
DELTA 1.39999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

======== CHANNEL f1 ========
NUC1 13C
P1 8.50 usec
PL1 -2.00 dB
SFO1 100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 70.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127744 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40

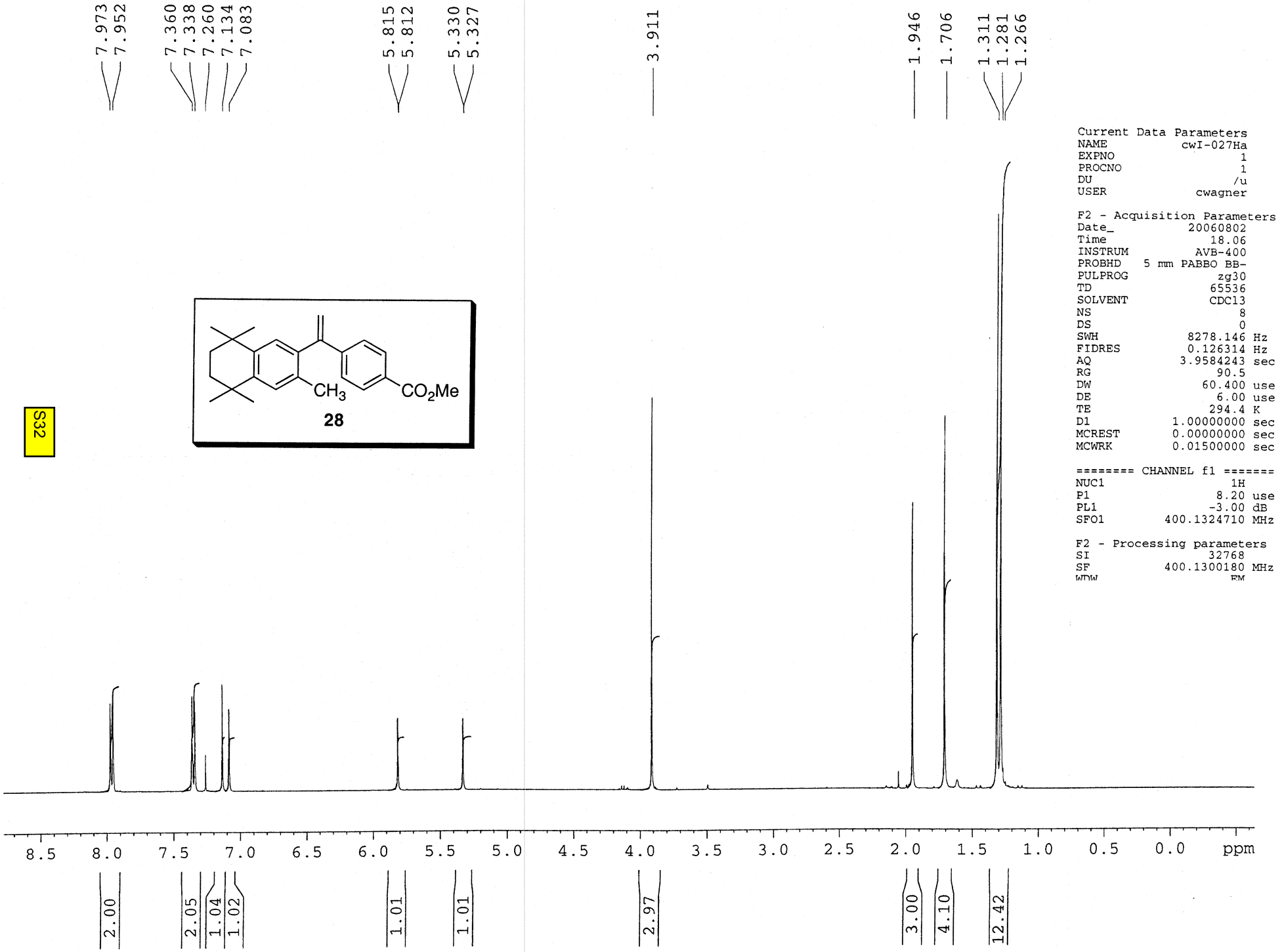


27

S31

200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ppm

AVB-400 ZBO Proton starting parameters. 6/11/03 RN



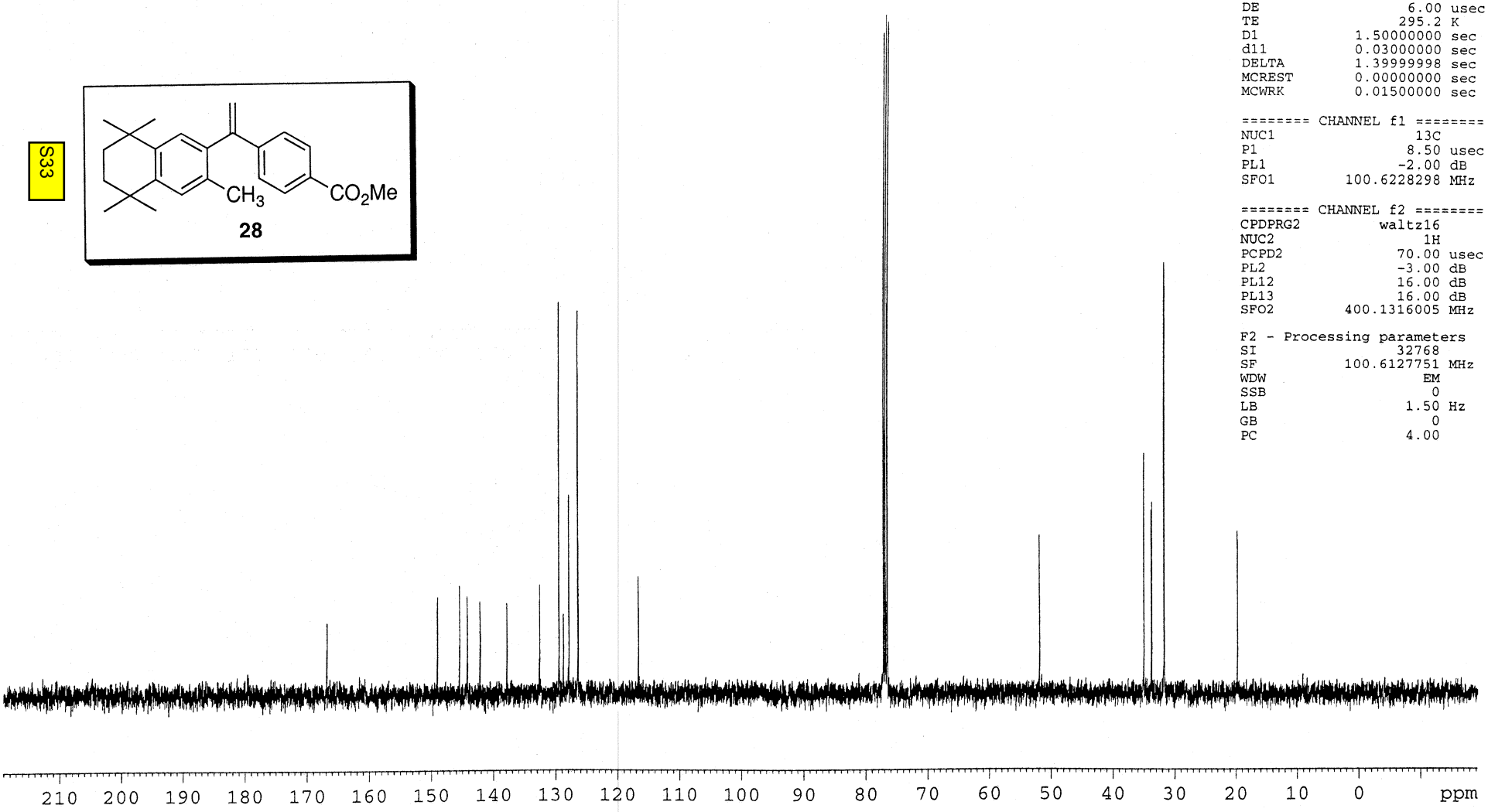
S32

AVB-400 ZBO Carbon Starting paramters 6/11/03 RN

166.96
149.14
145.56
144.32
142.29
137.99
132.70
129.61
128.93
128.05
128.01
126.55
116.80
77.32
77.00
76.68
52.03
35.16
33.97
33.87
31.90
31.86

S33

28



Current Data Parameters

NAME	cwI-027Ca
EXPNO	1
PROCNO	1
DU	/u
USER	cwagner

F2 - Acquisition Parameters

Date_	20060802
Time	18.13
INSTRUM	AVB-400
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	101
DS	0
SWH	23980.814 Hz
FIDRES	0.365918 Hz
AQ	1.3664756 sec
RG	13004
DW	20.850 usec
DE	6.00 usec
TE	295.2 K
D1	1.50000000 sec
d11	0.03000000 sec
DELTA	1.39999998 sec
MCREST	0.00000000 sec
MCWRK	0.01500000 sec

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

NUC1	13C
P1	8.50 usec
PL1	-2.00 dB
SFO1	100.6228298 MHz

======== CHANNEL f2 ========

CPDPRG2	waltz16
NUC2	1H
PCPD2	70.00 usec
PL2	-3.00 dB
PL12	16.00 dB
PL13	16.00 dB
SFO2	400.1316005 MHz

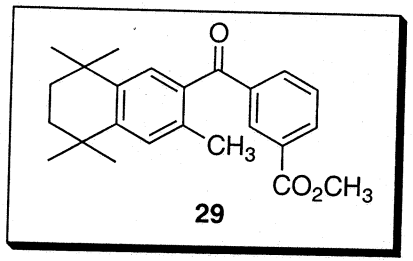
F2 - Processing parameters

SI	32768
SF	100.6127751 MHz
WDW	EM
SSB	0
LB	1.50 Hz
GB	0
PC	4.00

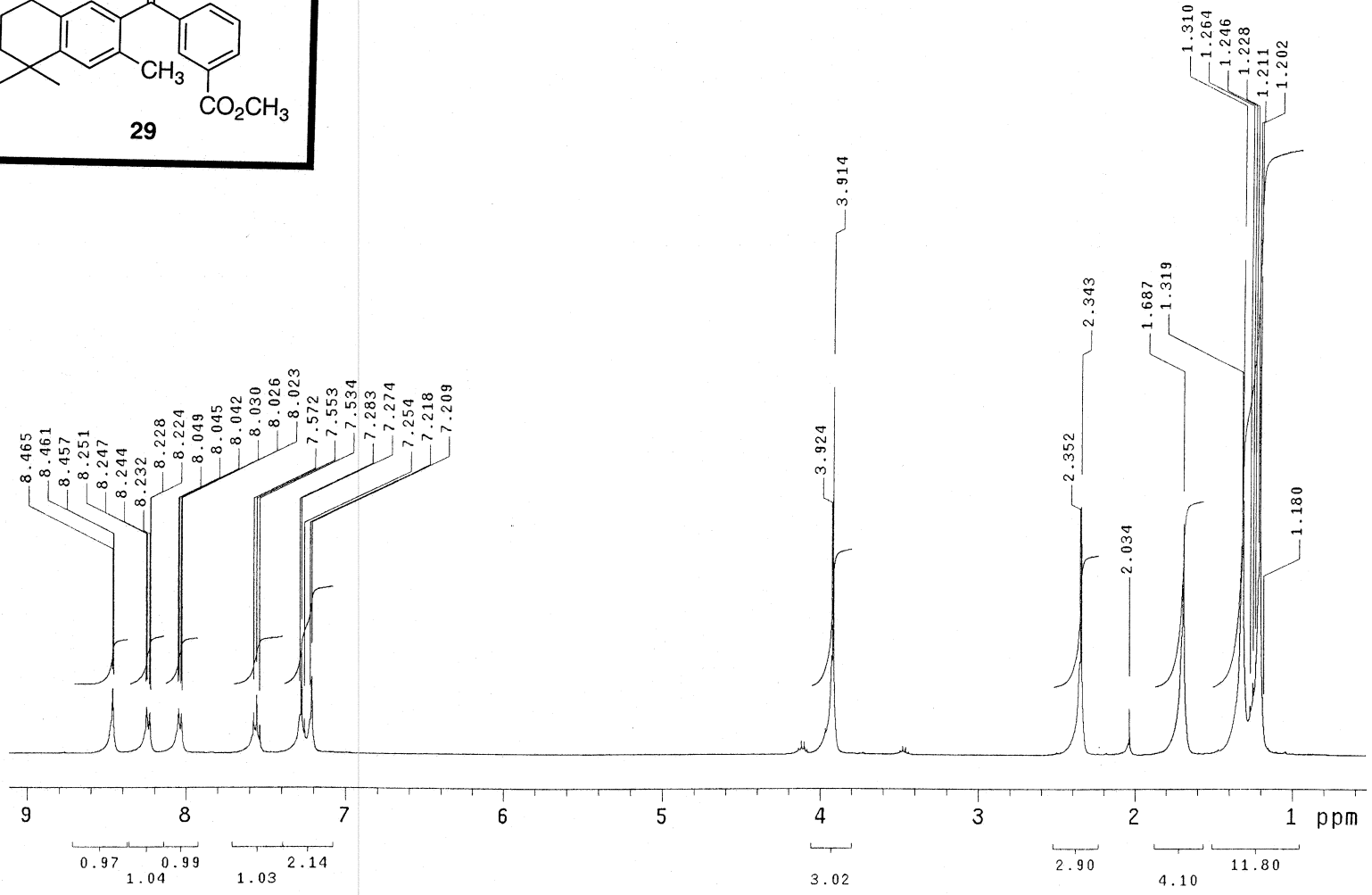
cwI-085

File : home/inova400/NMR_User_Data/wagner/cwI_085H_20july07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul



29

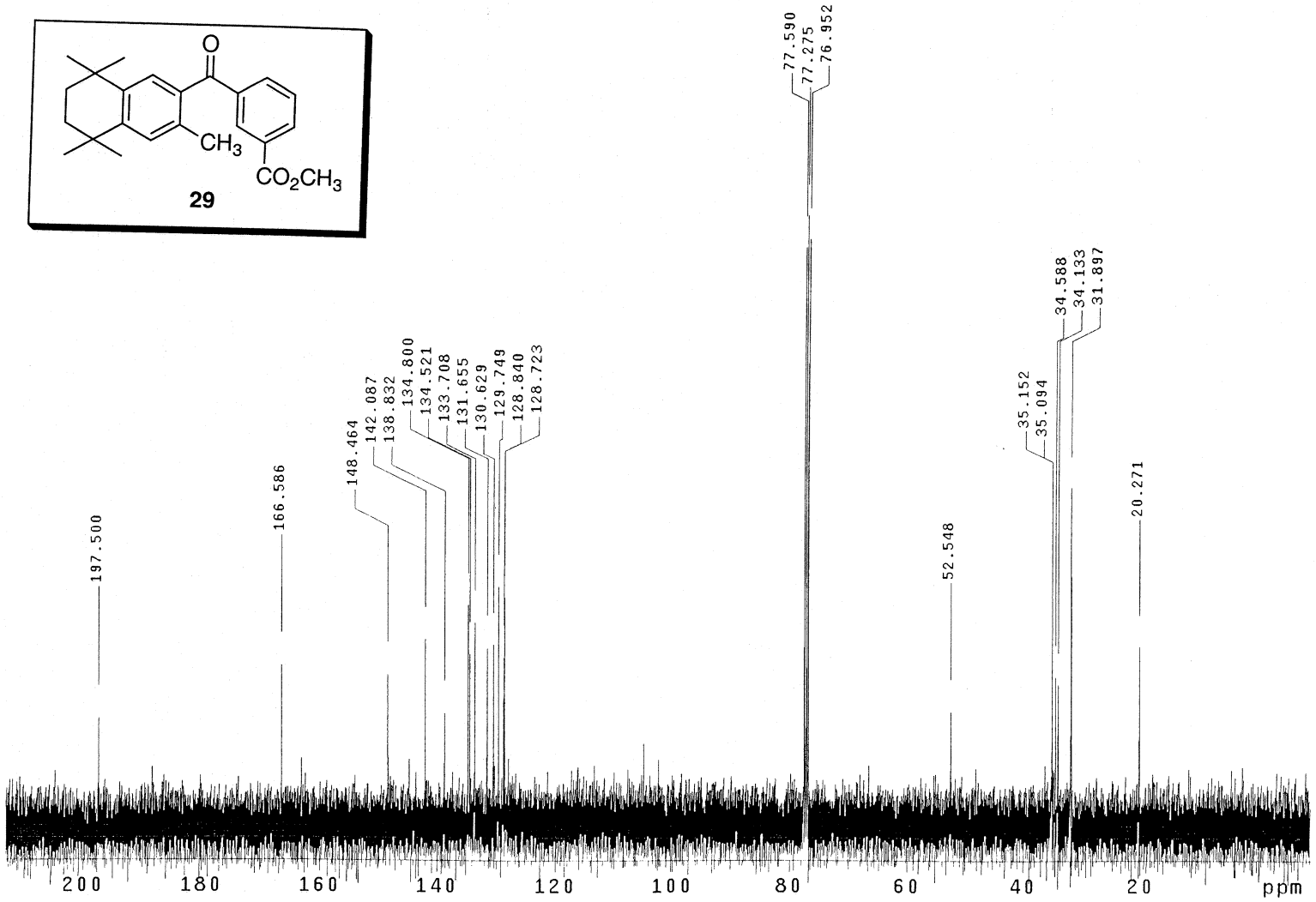


cwI-085

File : home/inova400/NMR_User_Data/wagner/cwI_085C_20july07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

29

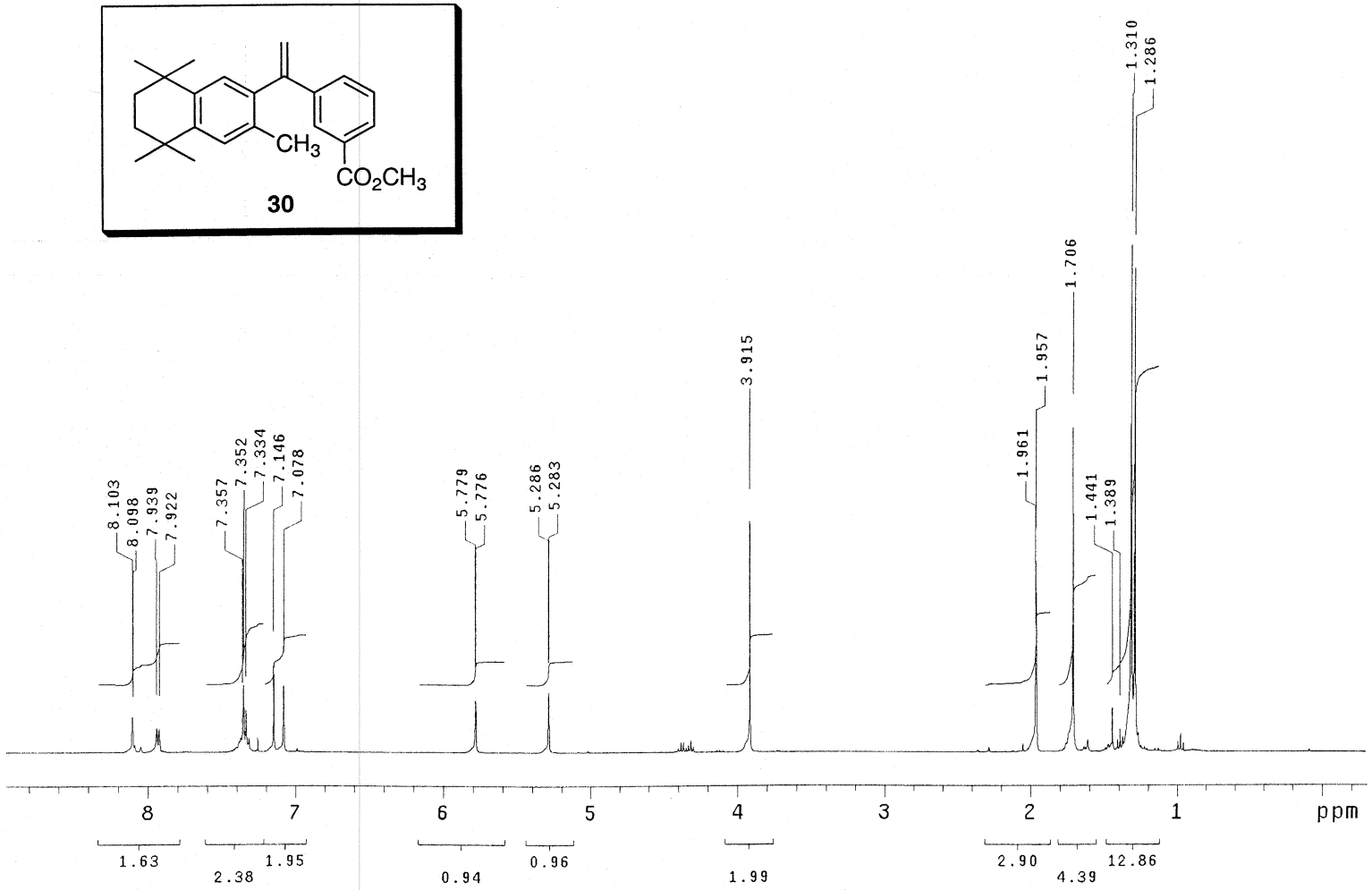


cwI-115

File : home/inova400/NMR_User_Data/wagner/cwI_115H_6august07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

30

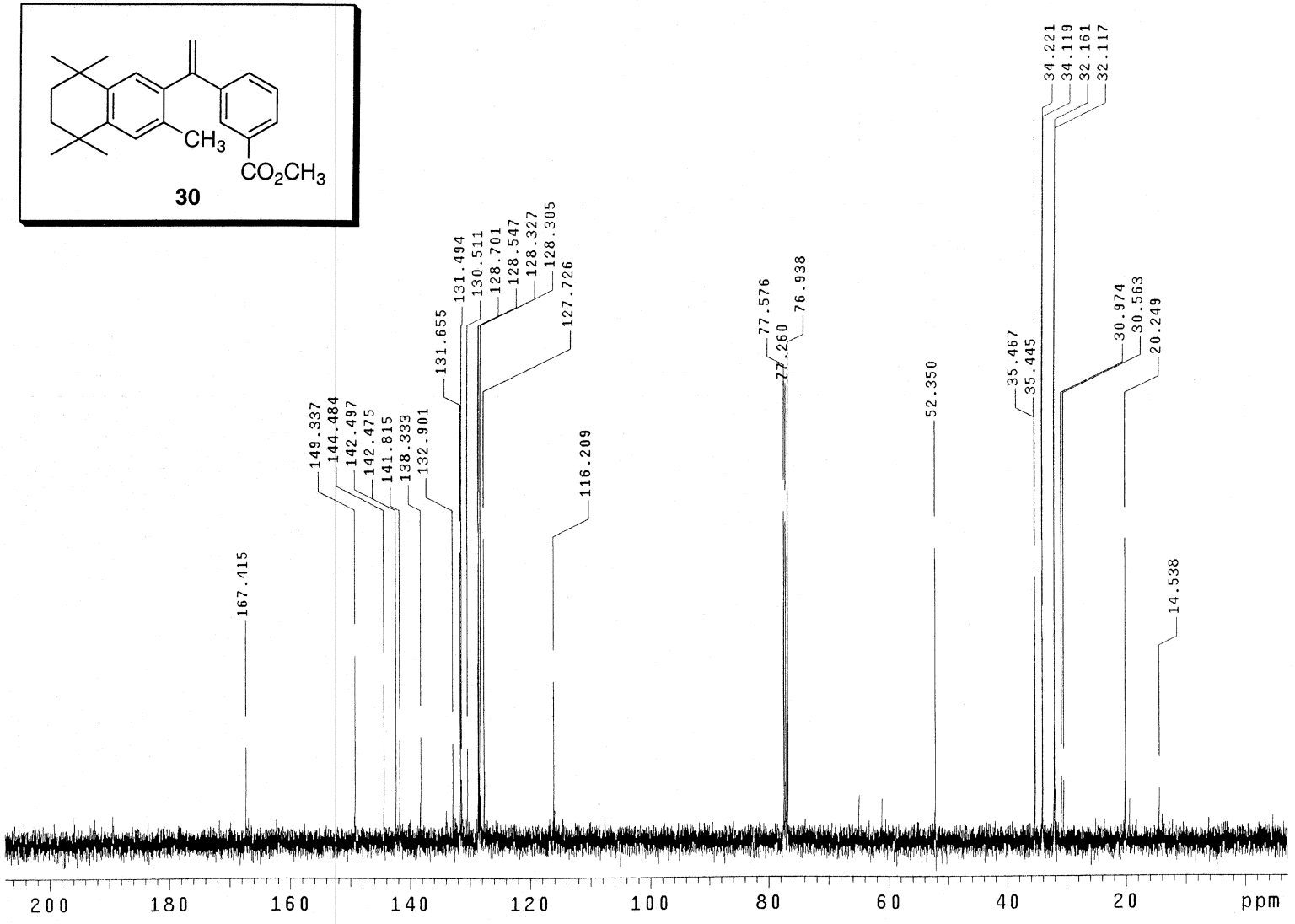


cwI-115

File : home/inova400/NMR_User_Data/wagner/cwI_115C_6august07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

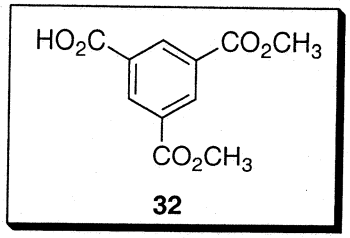
30



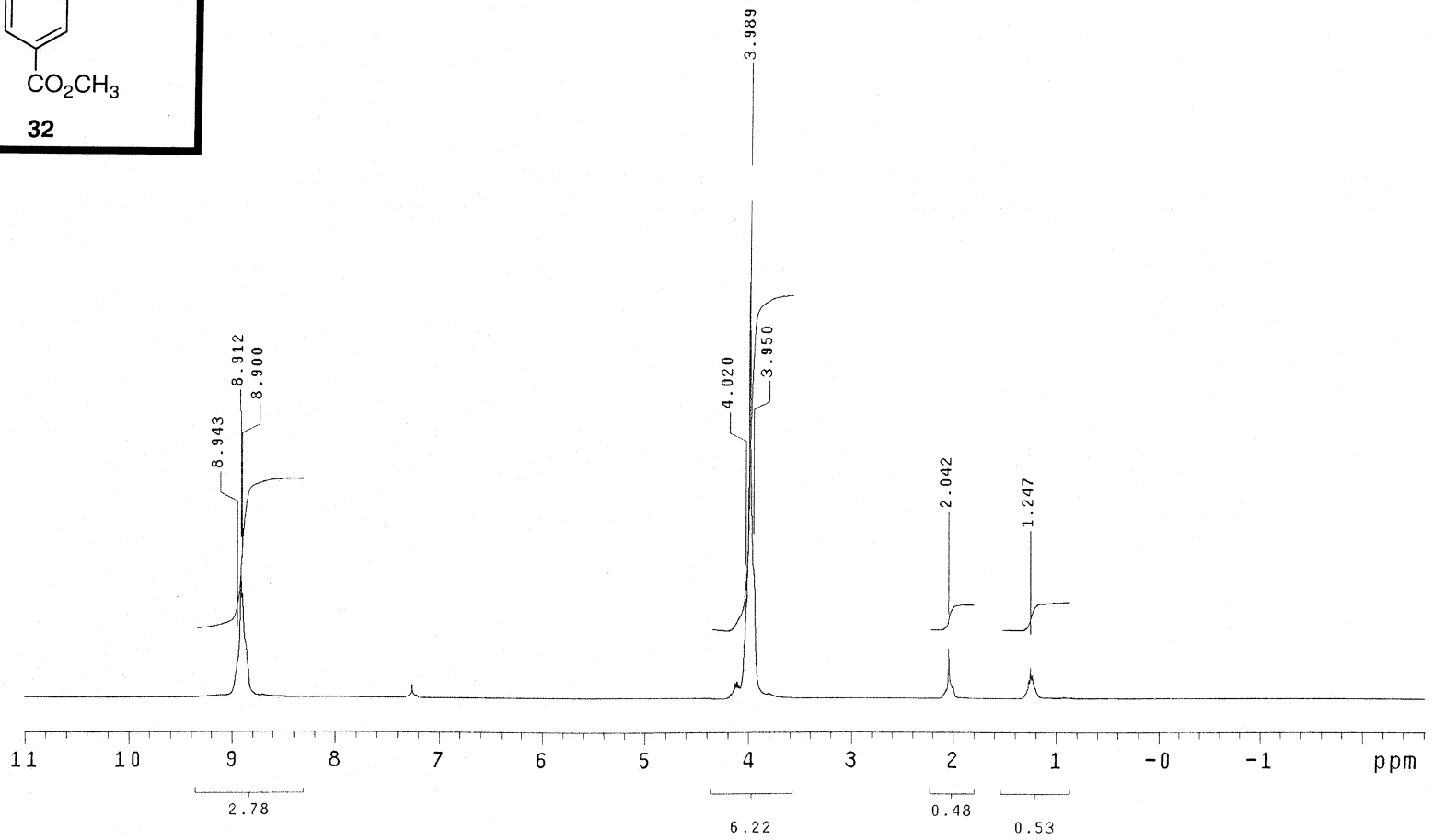
cwI-073

File : home/inova400/NMR_User_Data/wagner/cwI_073H_6august07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul



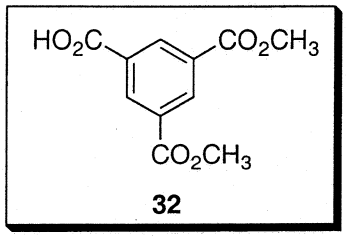
32



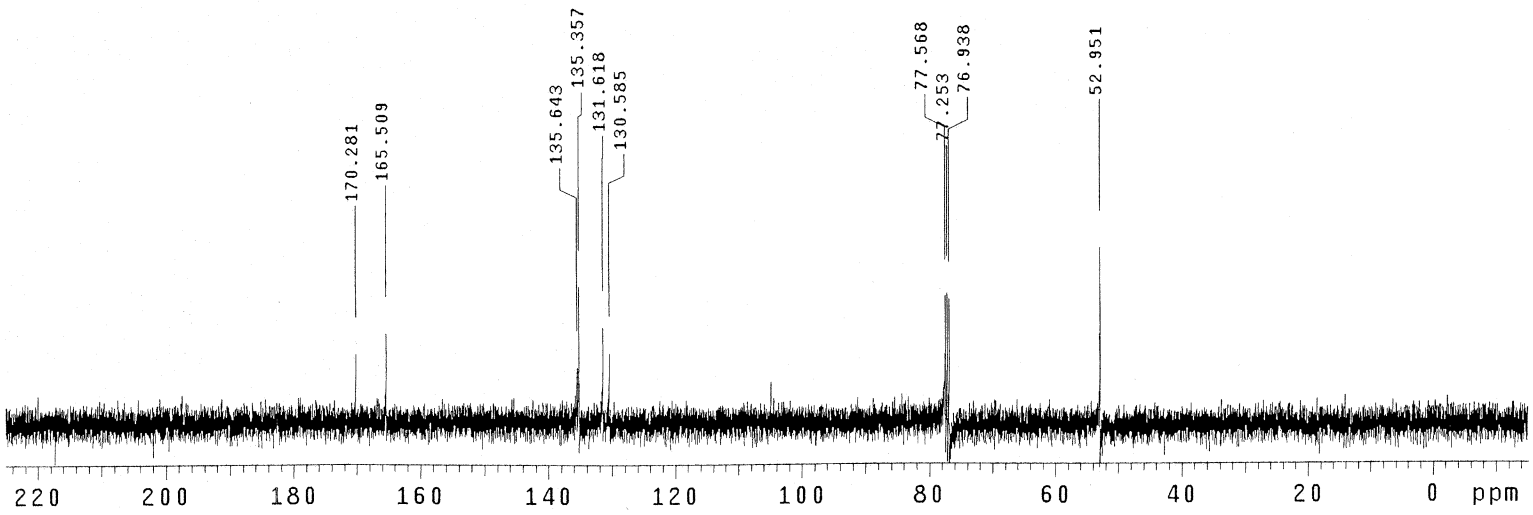
cwI-073

File : home/inova400/NMR_User_Data/wagner/cwI_073C_6august07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul



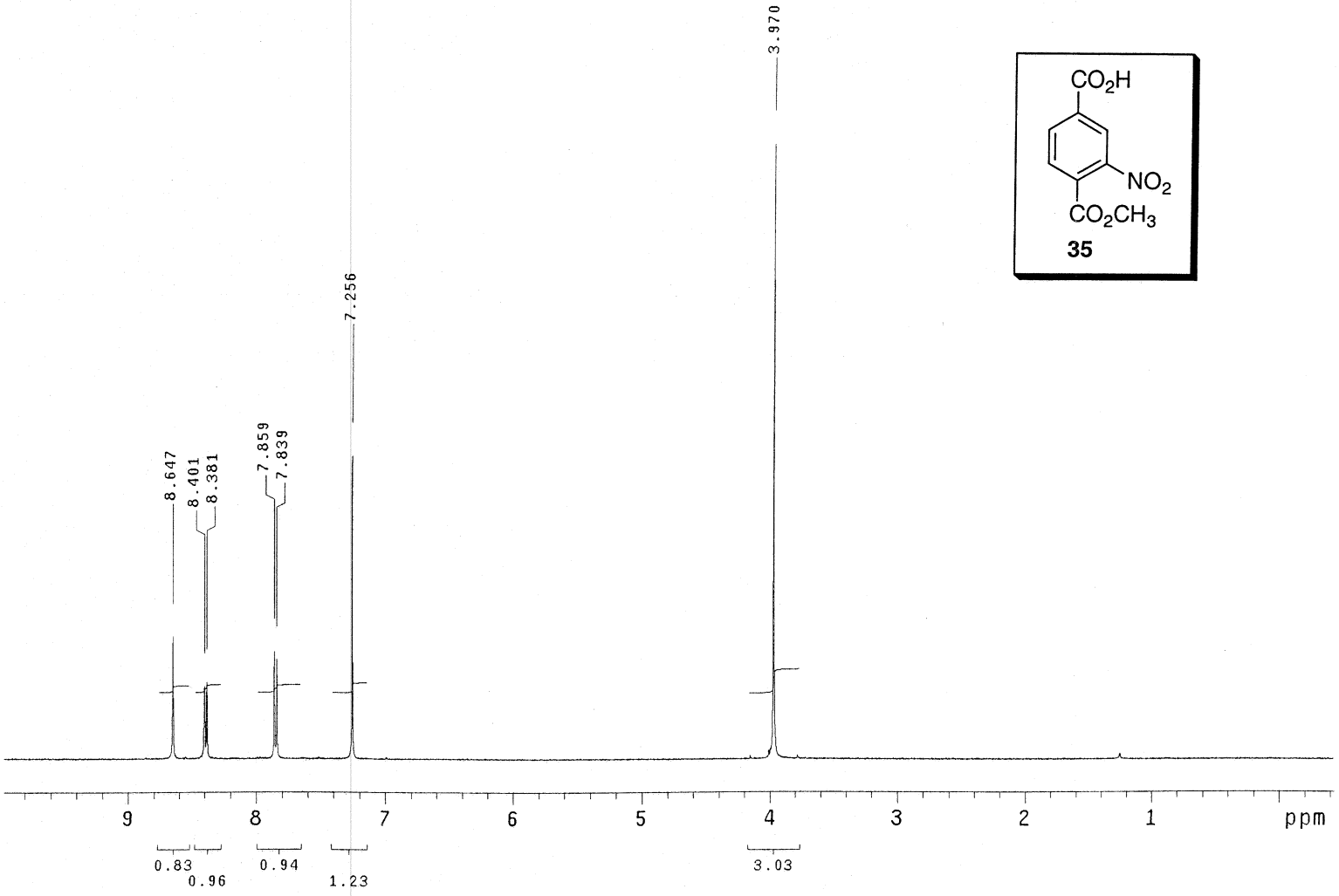
32



cwI-055

File : home/inova400/NMR_User_Data/wagner/cwI_055H.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

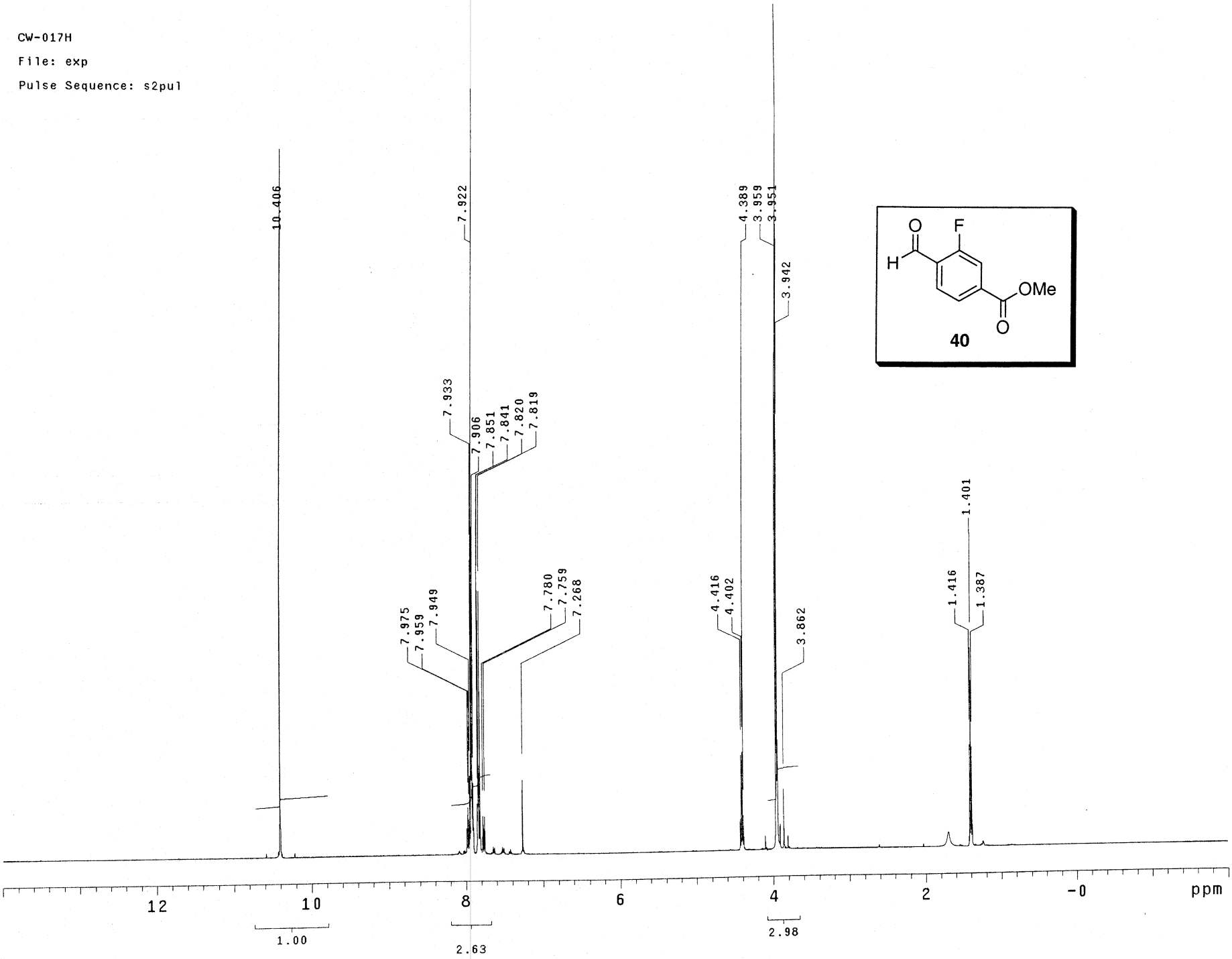


35

CW-017H

File: exp

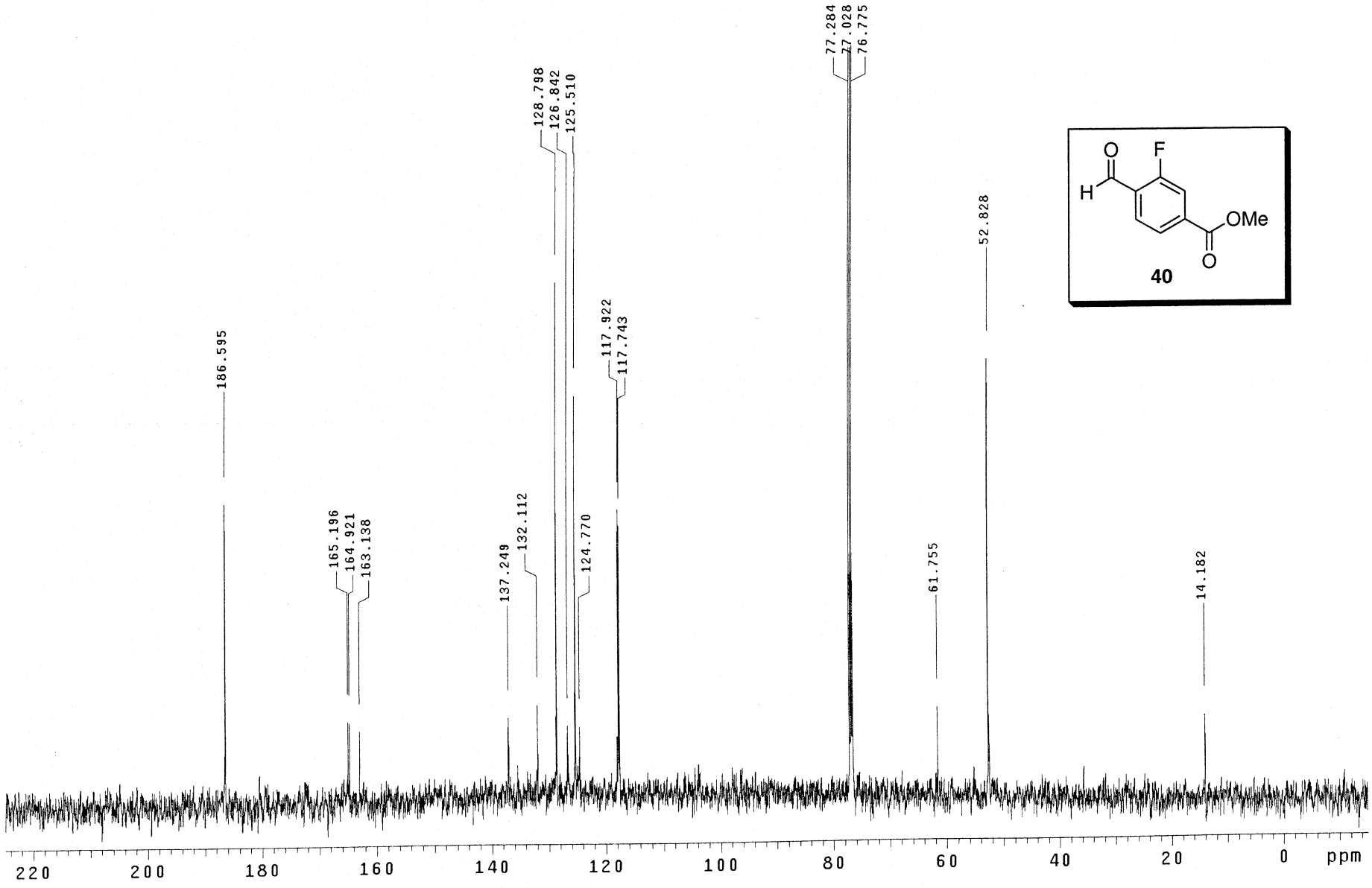
Pulse Sequence: s2pul



SODA091008

Sample: SODA091008
File: exp

Pulse Sequence: s2pul

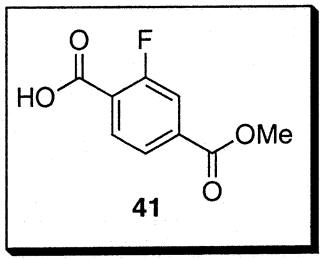


40

CWII-039 1 1 C:\Bruker\TOPSPIN wagner

CWII-039
1H

8.1194
8.1000
8.0815
7.9072
7.8867
7.8398
7.8122
7.2600
3.9666



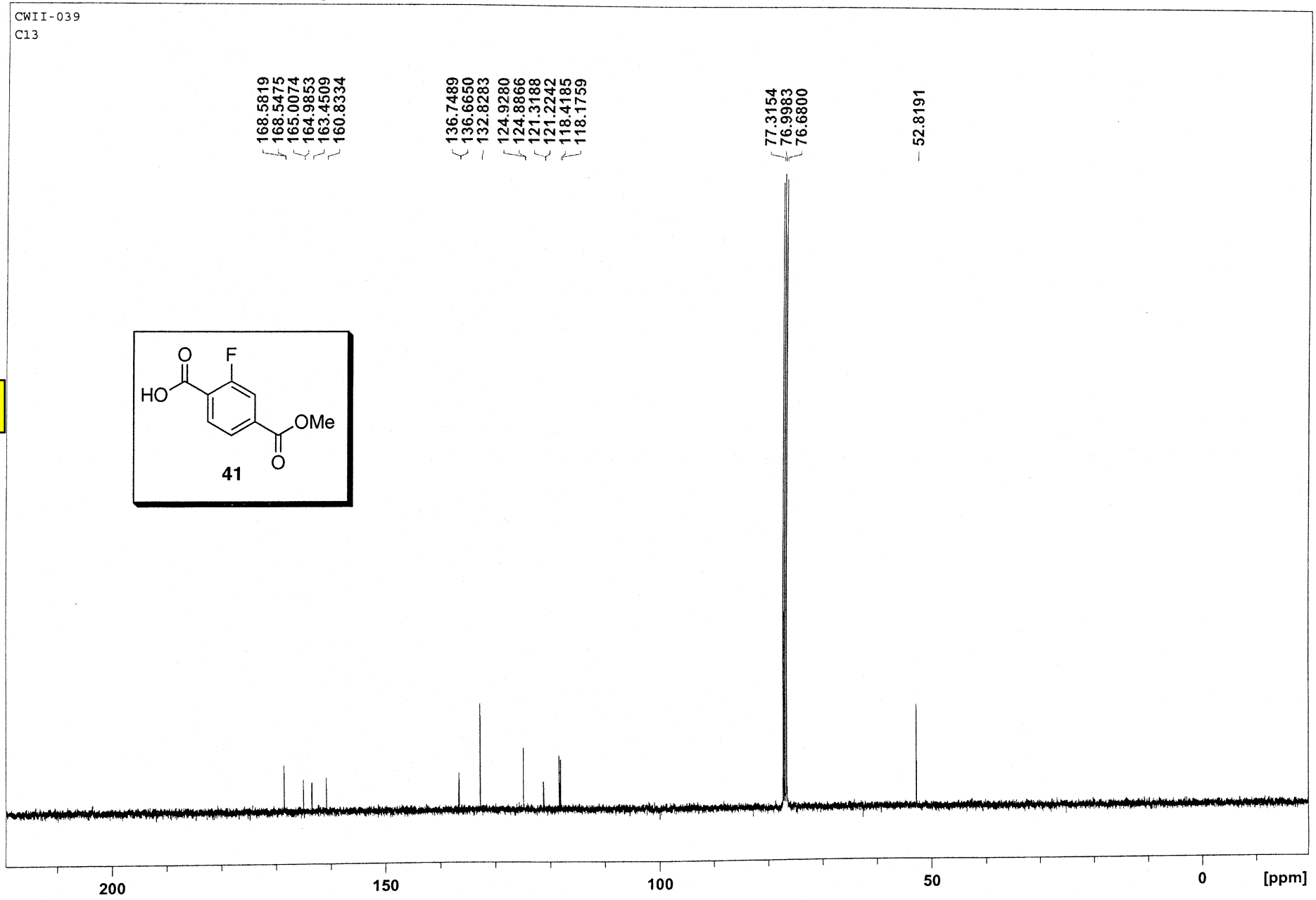
41

0.8649
0.9694
2.0229
3.0000

12 10 8 6 4 2 [ppm]

CWII-039 2 1 C:\Bruker\TOPSPIN wagner

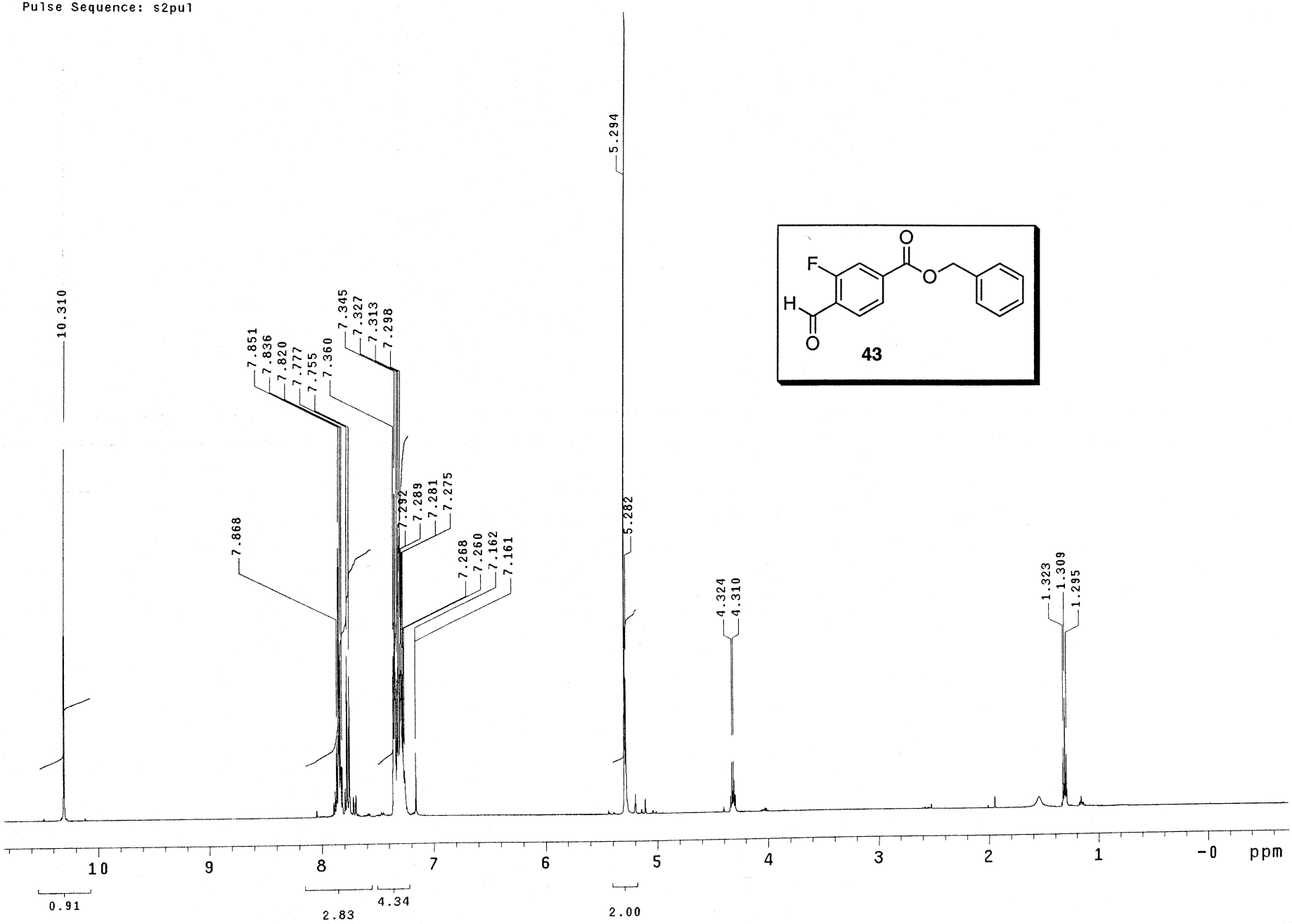
CWII-039
C13

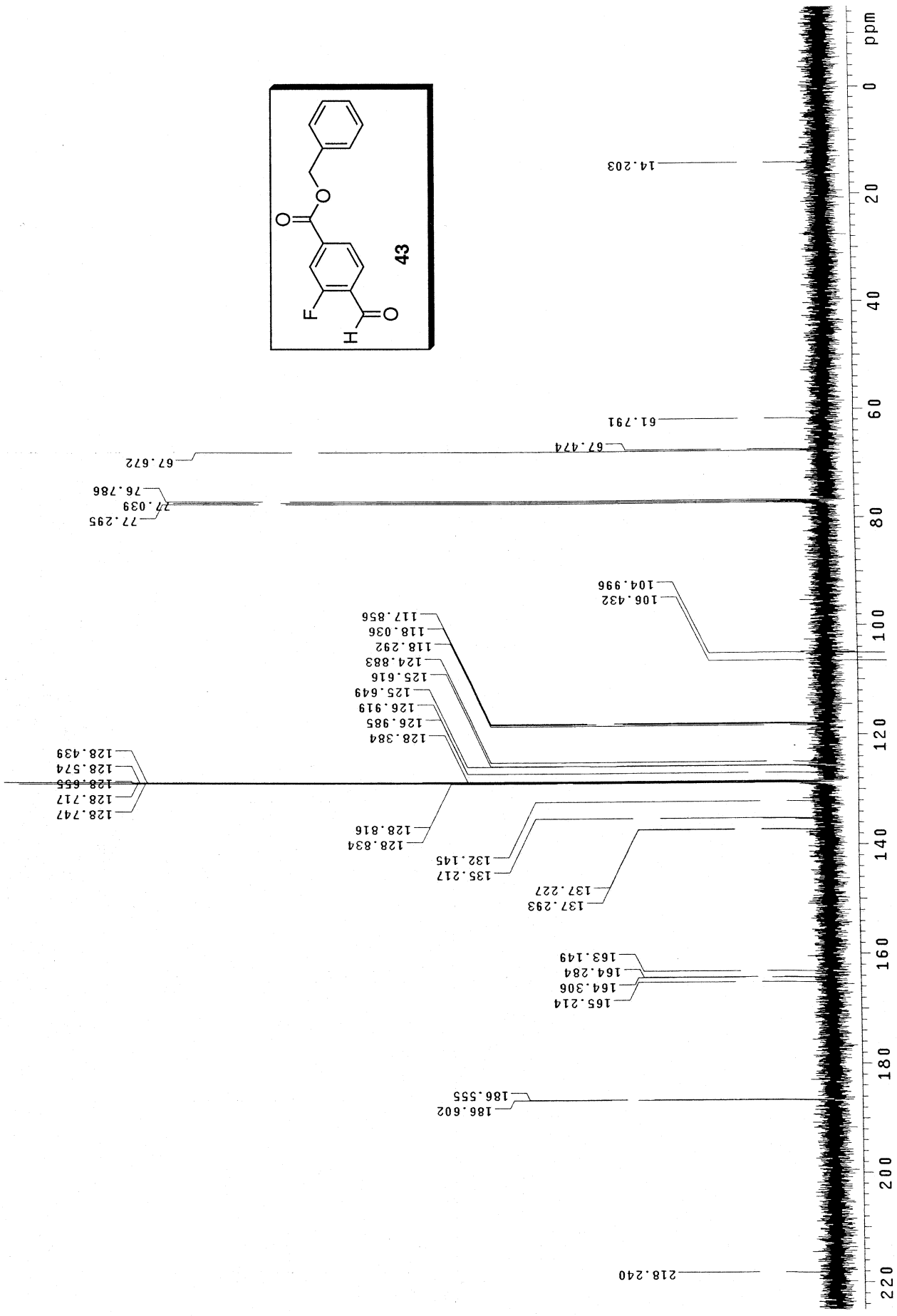


CWII-019H

File: exp

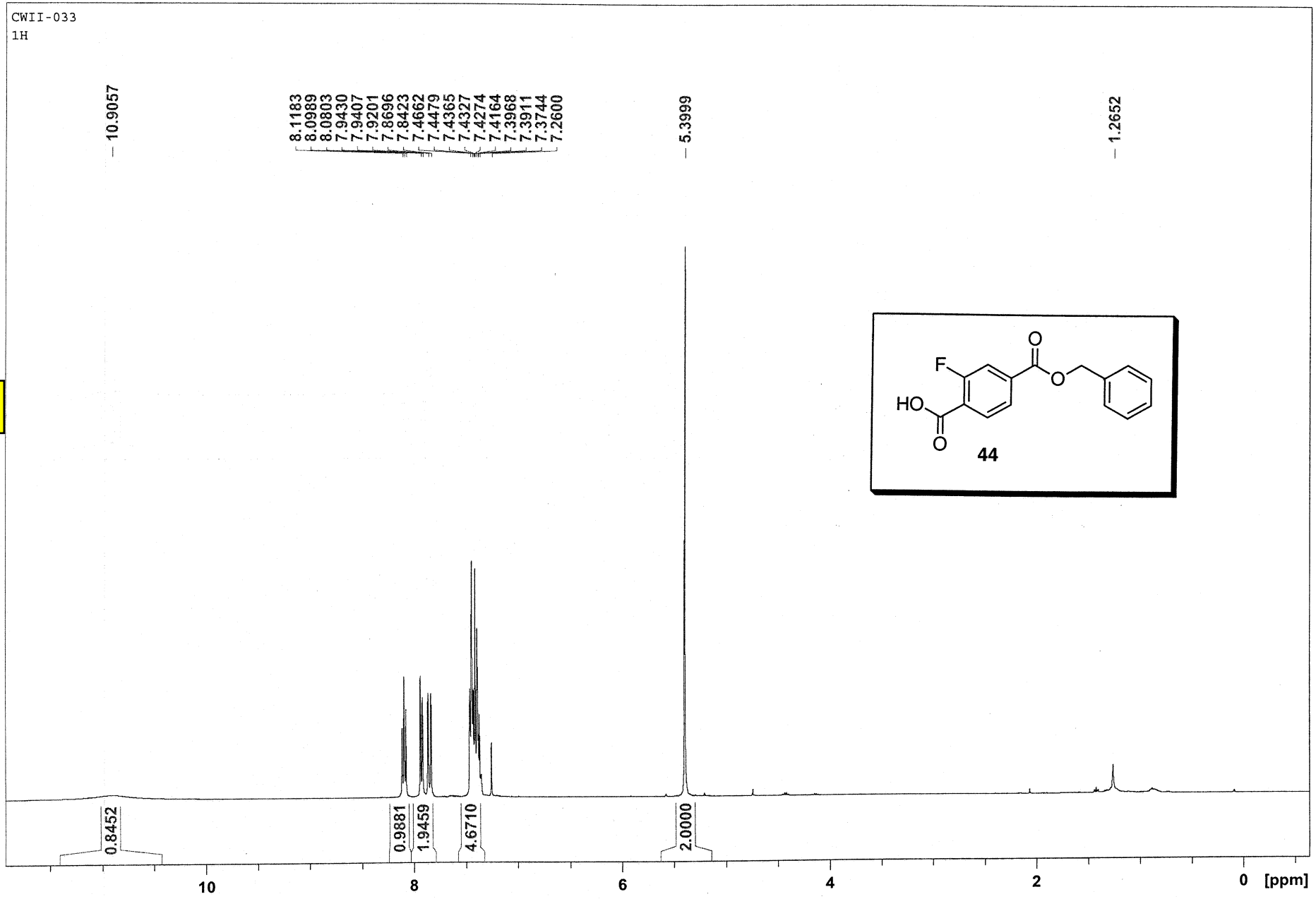
Pulse Sequence: s2pul




SODA091008
Sample: SODA091008
File: exp
Pulse Sequence: s2pul
43
F
O
O
O
H
14.203
61.791
67.474
67.672
76.786
77.039
77.295
104.996
106.432
117.856
118.036
118.292
124.883
125.616
125.649
126.919
126.985
128.384
128.439
128.574
128.655
128.717
128.747
128.816
128.834
132.145
135.217
137.227
137.293
163.149
164.284
164.306
165.214
186.602
186.555
218.240
ppm
0
20
40
60
80
100
120
140
160
180
200
220

CWII-033 1 1 C:\Bruker\TOPSPIN wagner

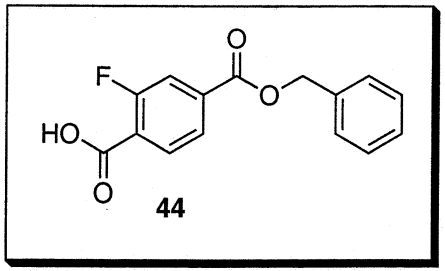
CWII-033
1H



CWII-033 2 1 C:\Bruker\TOPSPIN wagner

CWII-033
C13

168.7941
168.7598
164.3358
164.3146
163.4447
160.8257
136.7701
136.6857
135.1887
132.8234
128.7022
128.5980
128.3803
125.0183
124.9796
121.3710
121.2764
118.4850
118.2439
77.3155
76.9983
76.6799
67.6099



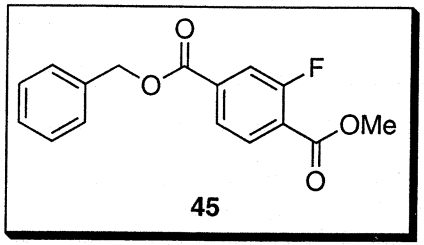
44

150 100 50 0 [ppm]

CWII-041 1 1 C:\Bruker\TOPSPIN wagner

CWII-041
1H

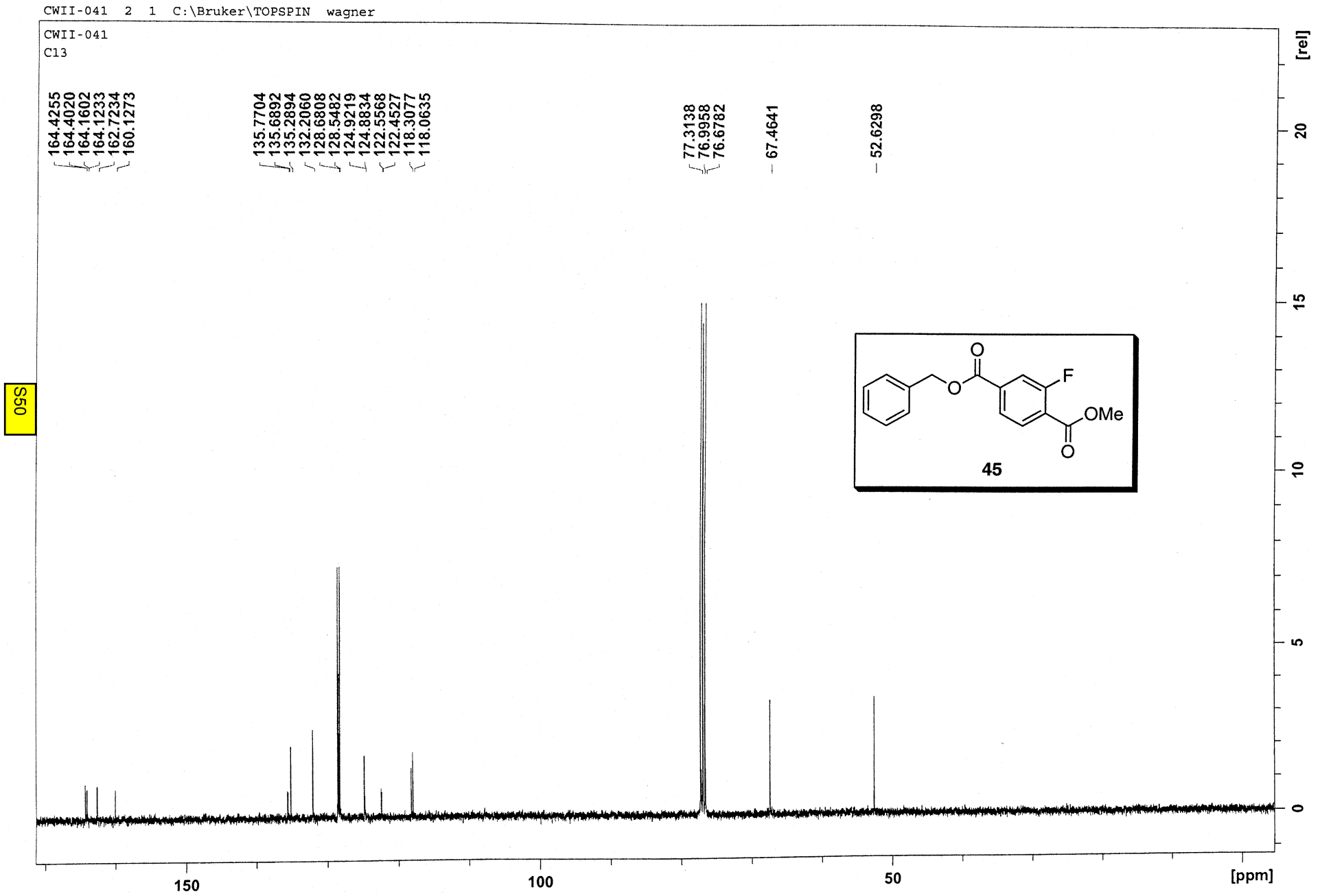
8.0100
7.9906
7.9724
7.8983
7.8778
7.8286
7.8013
7.4556
7.4373
7.4241
7.4069
7.3873
7.3648
7.3487
7.2600
5.3799
3.9532



45

1.0000
1.9767
4.8338
2.0025
3.0812

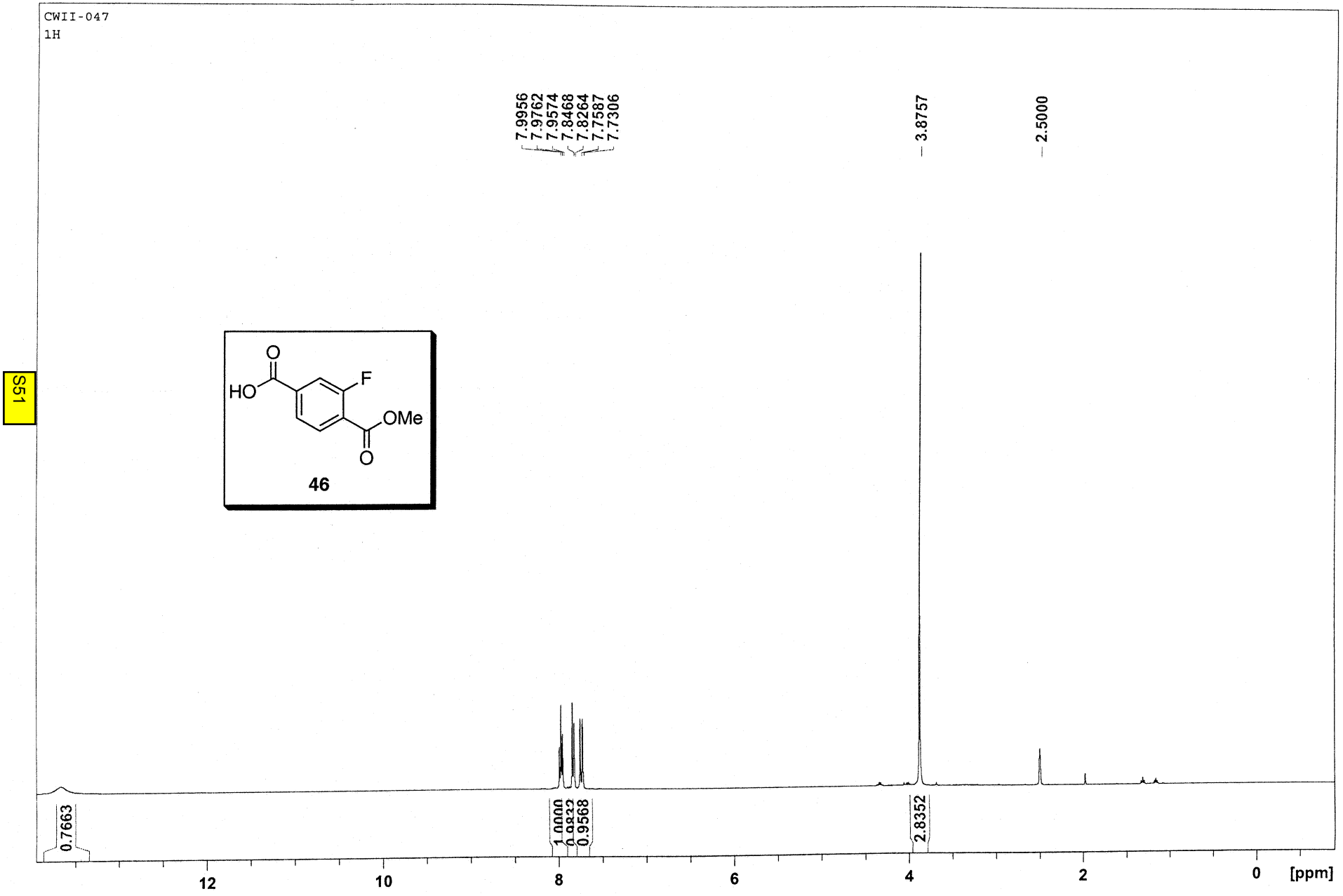
8
6
4
2
0
[ppm]


CWII-041 2 1 C:\Bruker\TOPSPIN wagner
CWII-041
C13
164.4255
164.4020
164.1602
164.1233
162.7234
160.1273
135.7704
135.6892
135.2894
132.2060
128.6808
128.5482
124.9219
124.8834
122.5568
122.4527
118.3077
118.0635
77.3138
76.9958
76.6782
67.4641
52.6298
S50
O
O
F
OMe
O
45
[rel]
20
15
10
5
0
150
100
50
[ppm]

CWII-047 1 1 C:\Bruker\TOPSPIN wagner

CWII-047

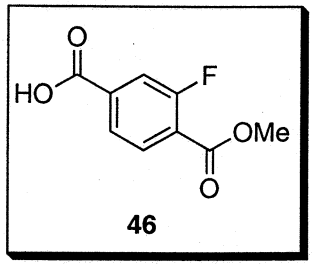
1H



CWII-047 2 1 C:\Bruker\TOPSPIN wagner

CWII-047
C13

165.8926
165.8718
163.8616
163.8259
162.2341
159.6650
137.4475
137.3686
132.5657
125.5487
125.5119
122.1749
122.0688
117.9908
117.7562
53.0538
40.5240
40.3149
40.1061
39.8974
39.6883
39.4798
39.2713



46

S52

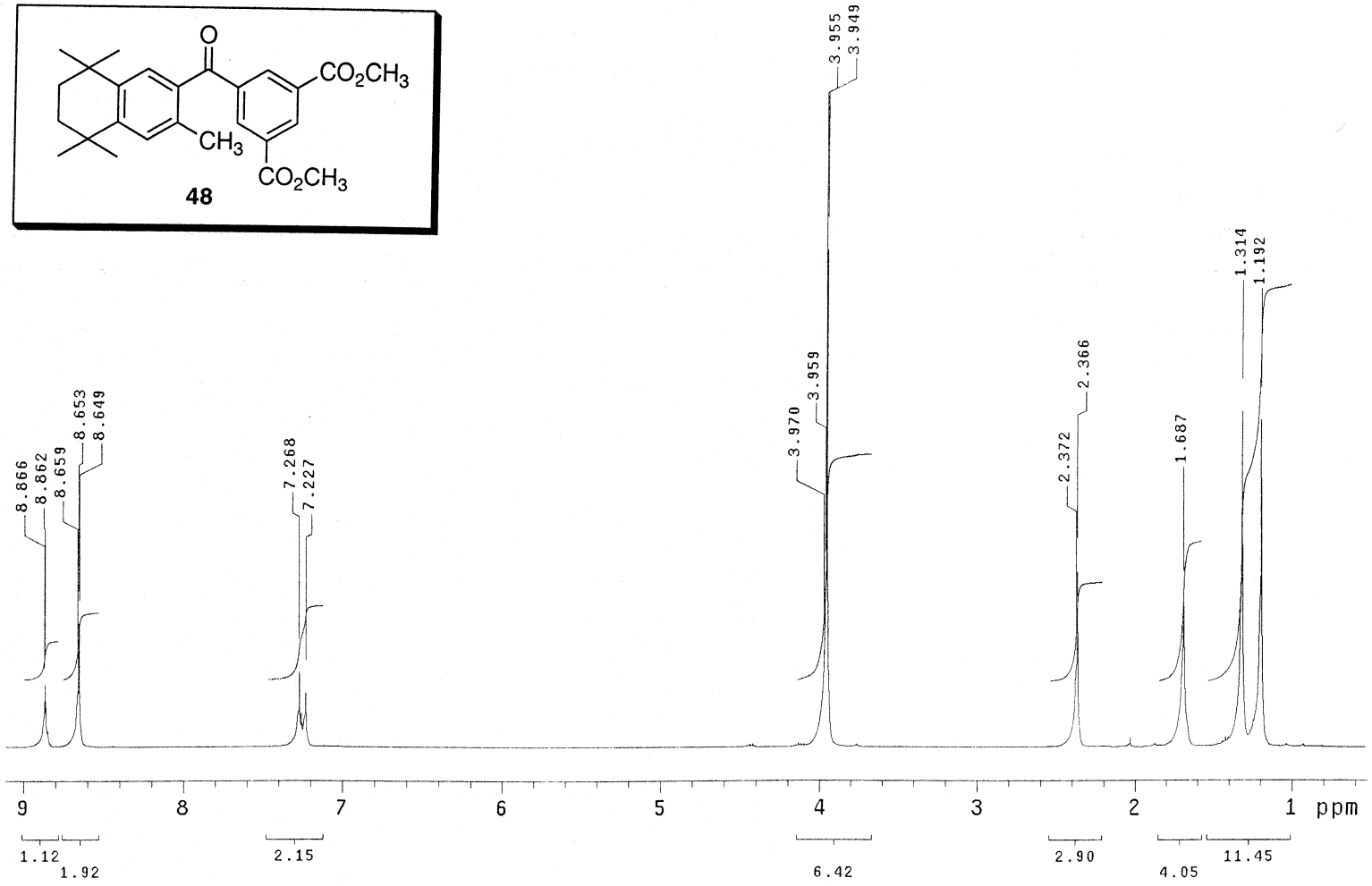
150
100
50
[ppm]

cwI-087

File : home/inova400/NMR_User_Data/wagner/cwI_087H_20july07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

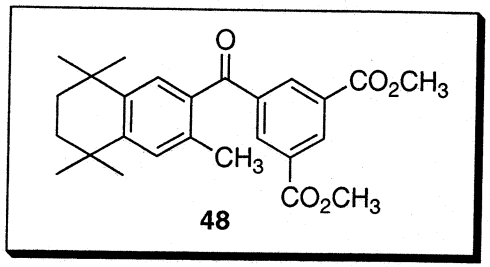
48



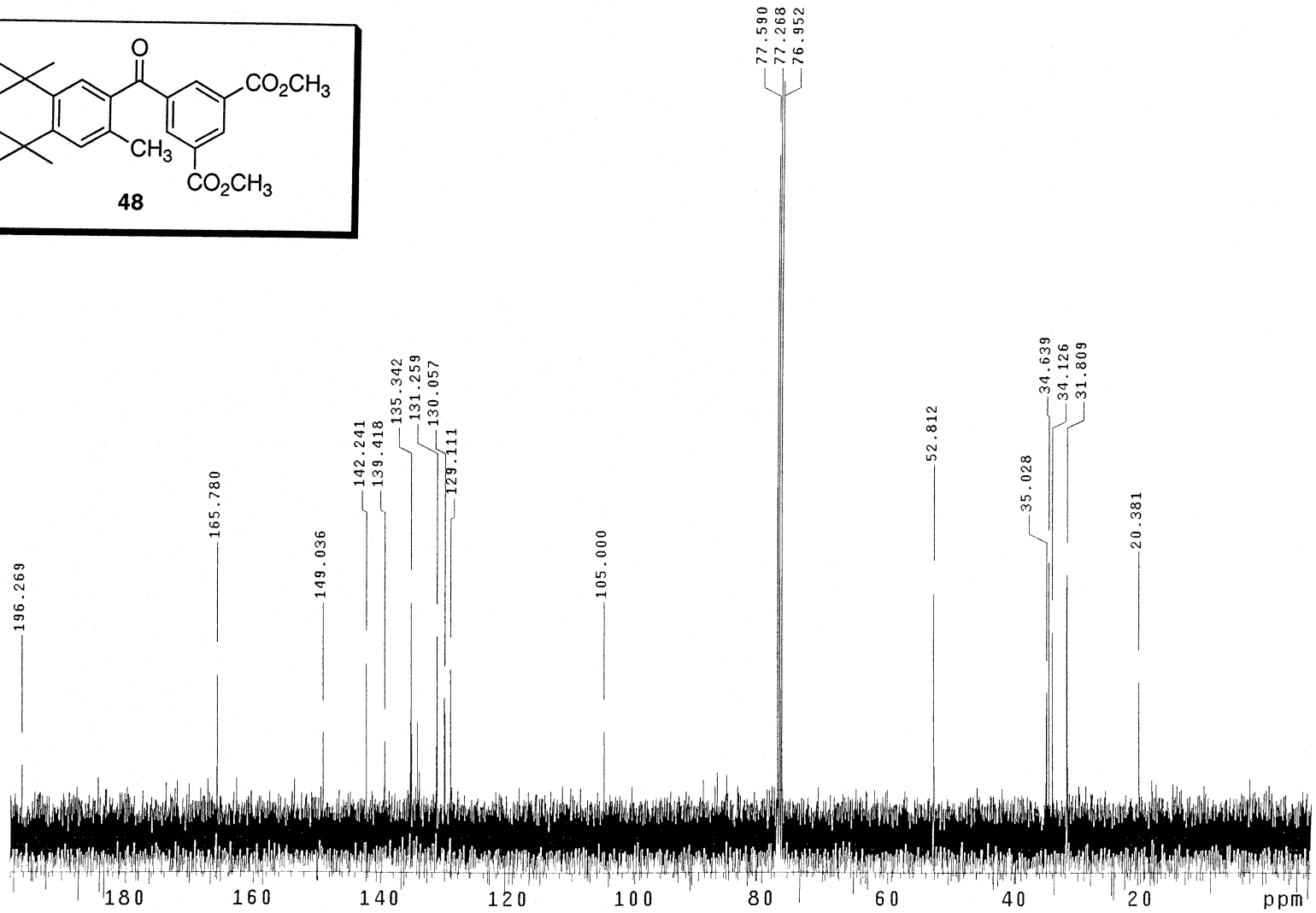
cwI-087

File : home/inova400/NMR_User_Data/wagner/cwI_087C_20july07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul



48

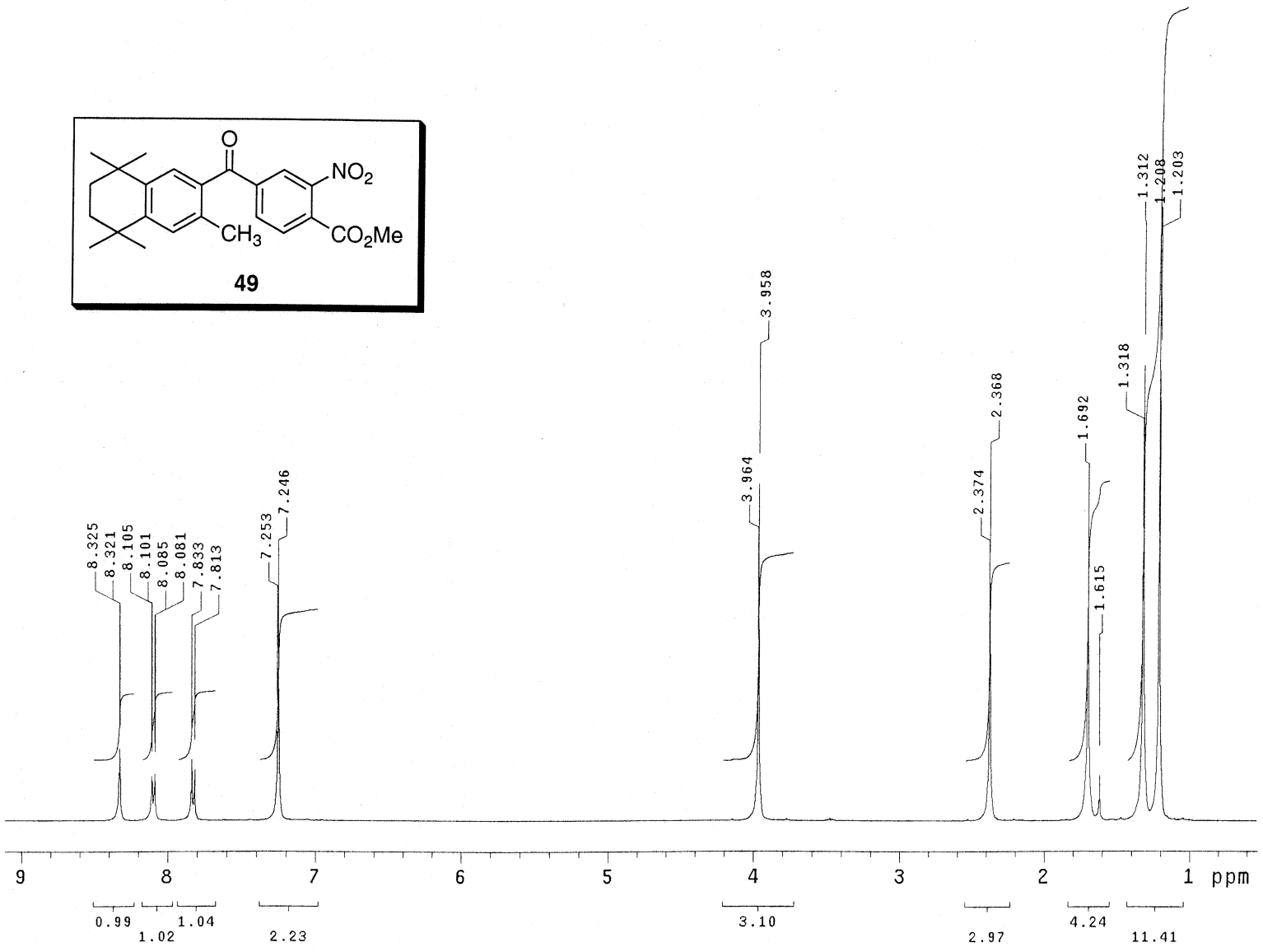


cwI-067

File : home/inova400/NMR_User_Data/wagner/cwI_067H_20july07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

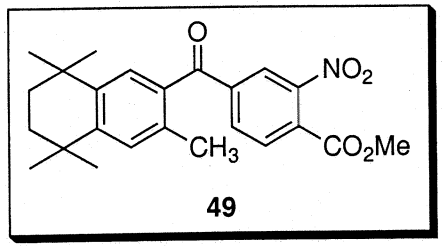
49



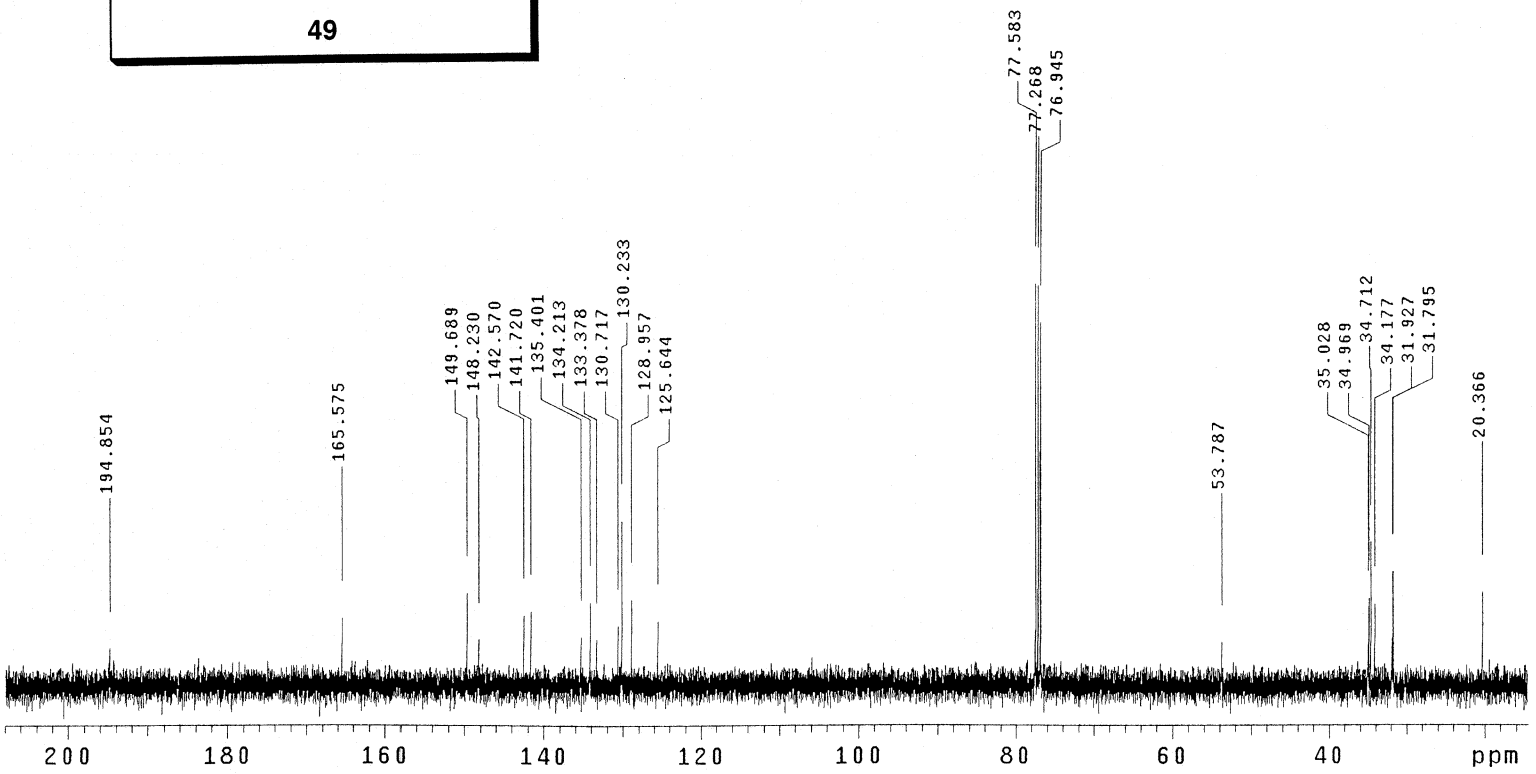
cwI-067

File : home/inova400/NMR_User_Data/wagner/cwI_067C_20july07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul



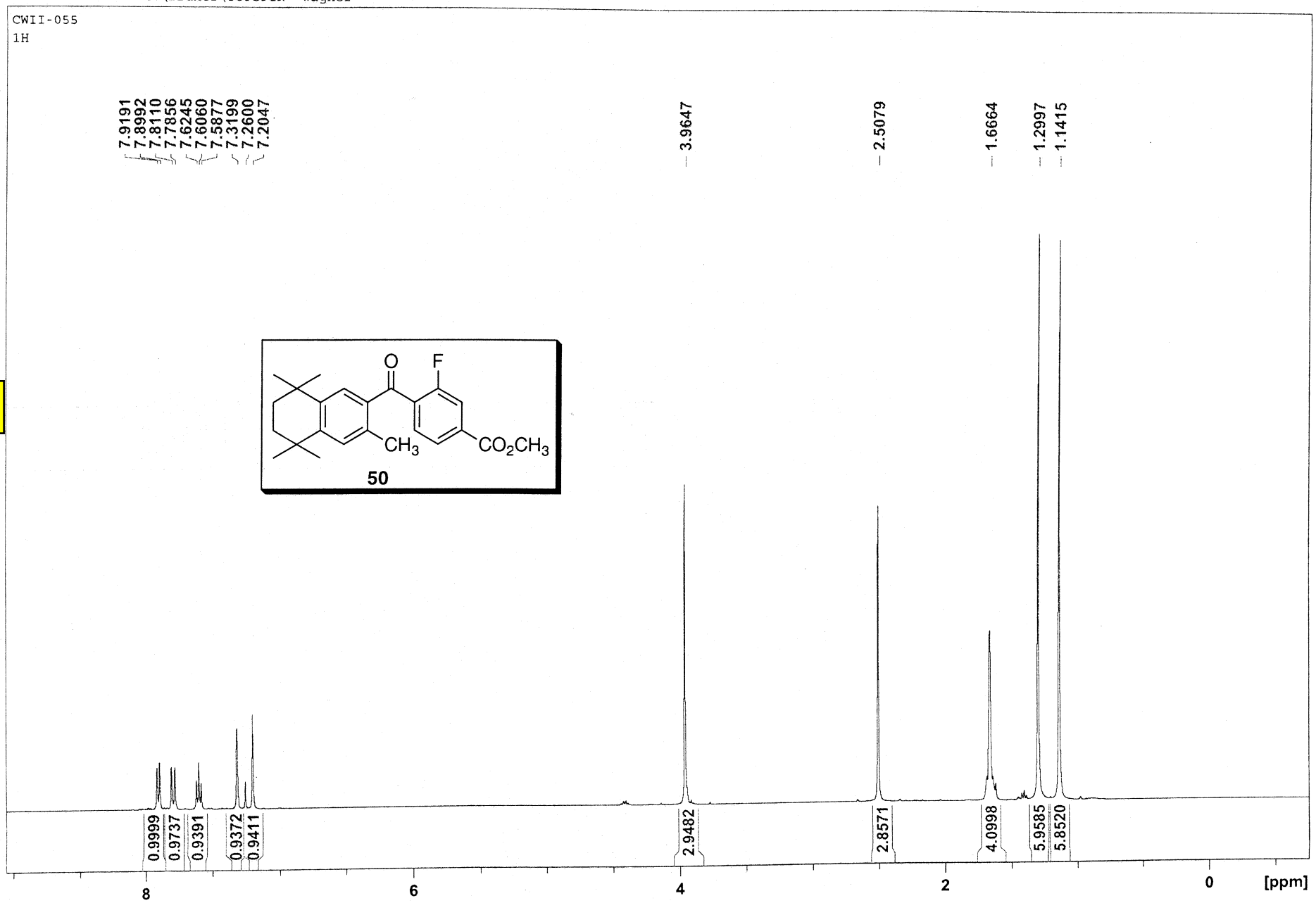
49



CWII-055 3 1 C:\Bruker\TOPSPIN wagner

CWII-055

1H

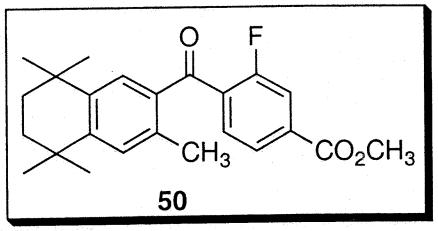


S57

CWII-055 2 1 C:\Bruker\TOPSPIN wagner

CWII-055
C13

193.9776
165.3437
165.3202
161.1405
158.6120
149.9032
142.2513
136.0443
134.4098
134.3335
134.0108
132.4720
132.3274
130.9493
130.9245
130.3870
129.9626
125.1455
125.1091
117.5490
117.3098
77.3065
76.9890
76.6710
52.6103
34.7809
34.7099
34.4357
33.8058
31.5748
31.4701
20.9053



50

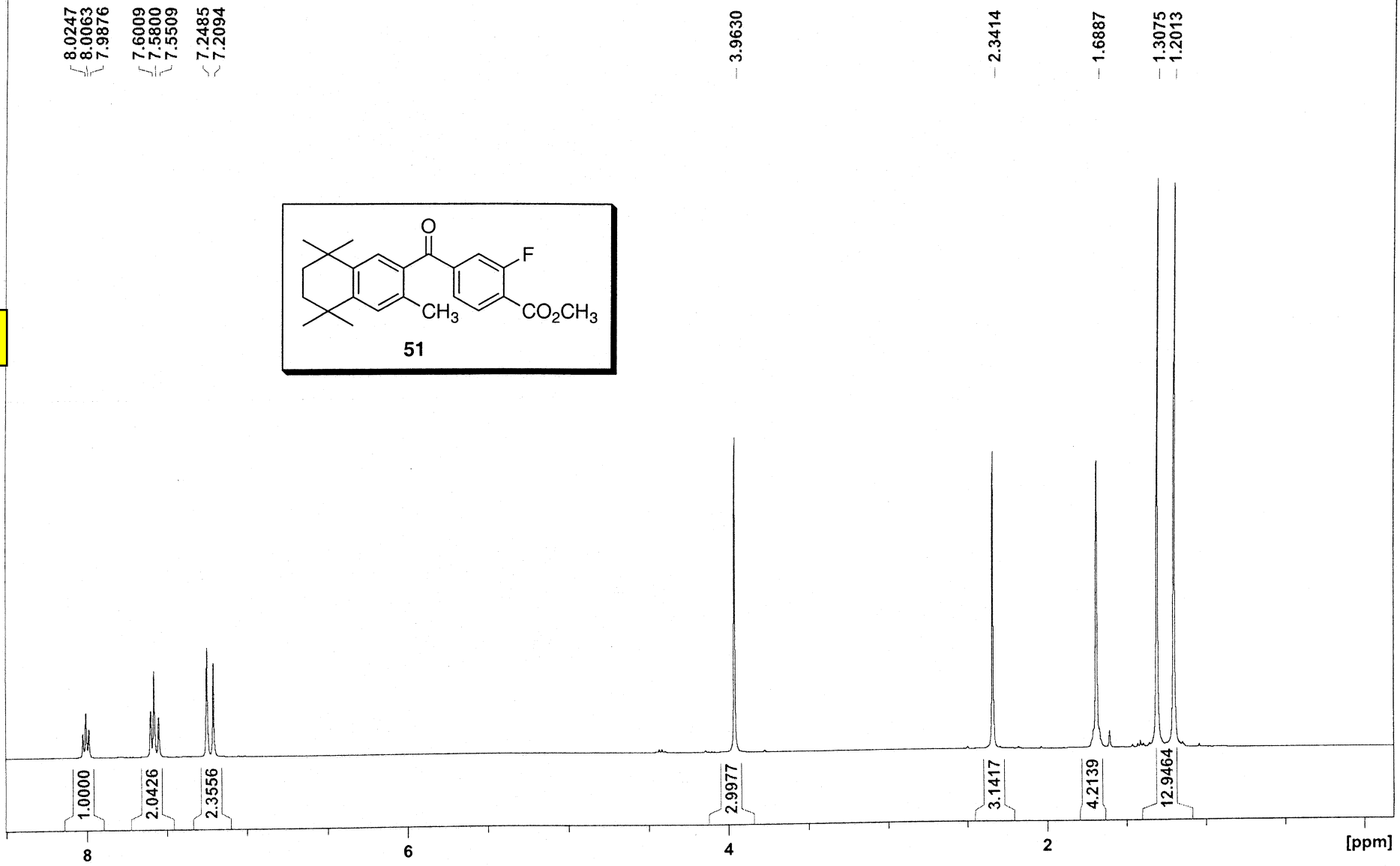
S58

200 150 100 50 0 [ppm]

CWII-053 1 1 C:\Bruker\TOPSPIN wagner

CWII-053

1H



CWII-053 2 1 C:\Bruker\TOPSPIN wagner

CWII-053

C13

196.0975

164.3066
164.2704
162.8174
160.2148

148.7664
143.8833
143.8123
142.0273
134.7124
134.0125
132.0975
129.5912
128.4601
125.2466
125.2075
121.9348
121.8281
118.3880
118.1510

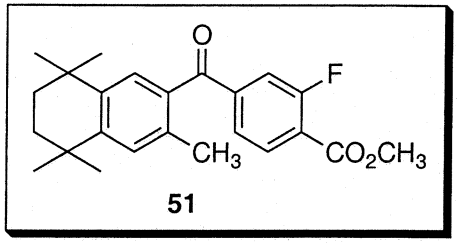
77.3040
76.9858
76.6682

52.6235

34.8284
34.7753
34.3708
33.8723
31.6536
31.5579

20.0094

S60



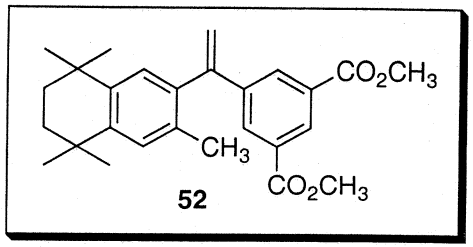
51

200 150 100 50 0 [ppm]

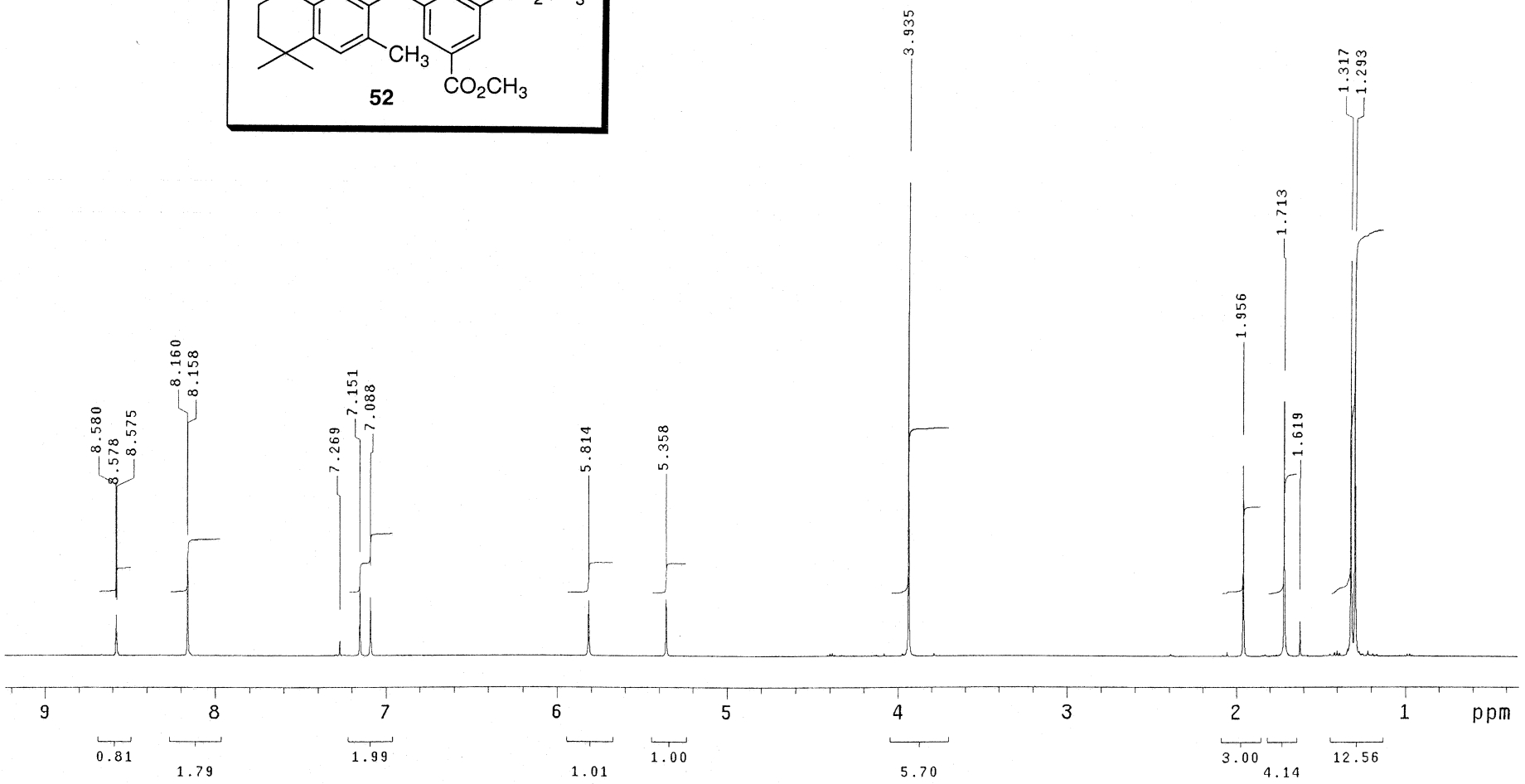
CW-139

File : home/inova400/NMR_User_Data/wagner/CW_139H.fid
Sample id : tmpstudy

Pulse Sequence: s2pul



52

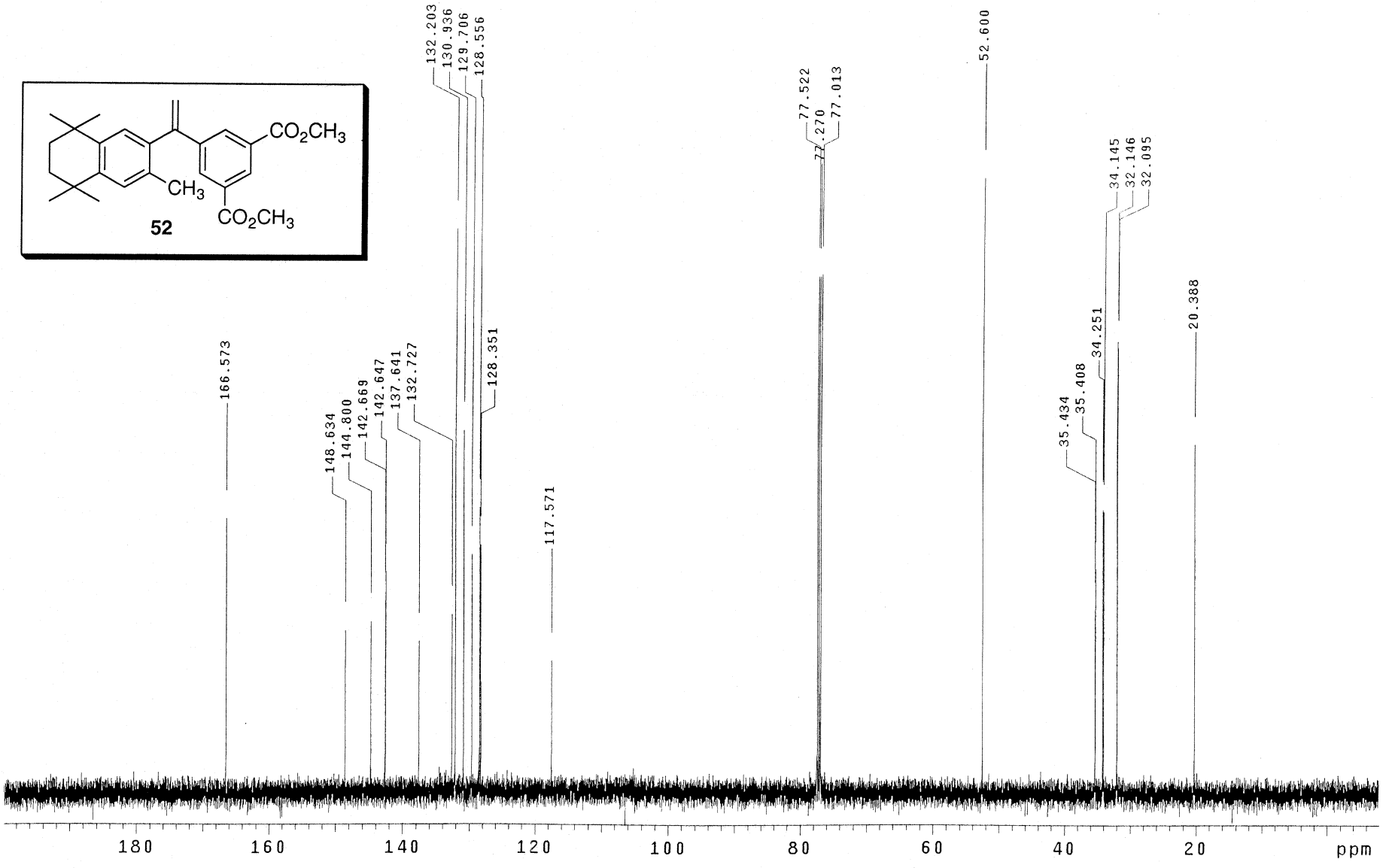


cwI-139

File : home/inova400/NMR_User_Data/wagner/CW_139C.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

52

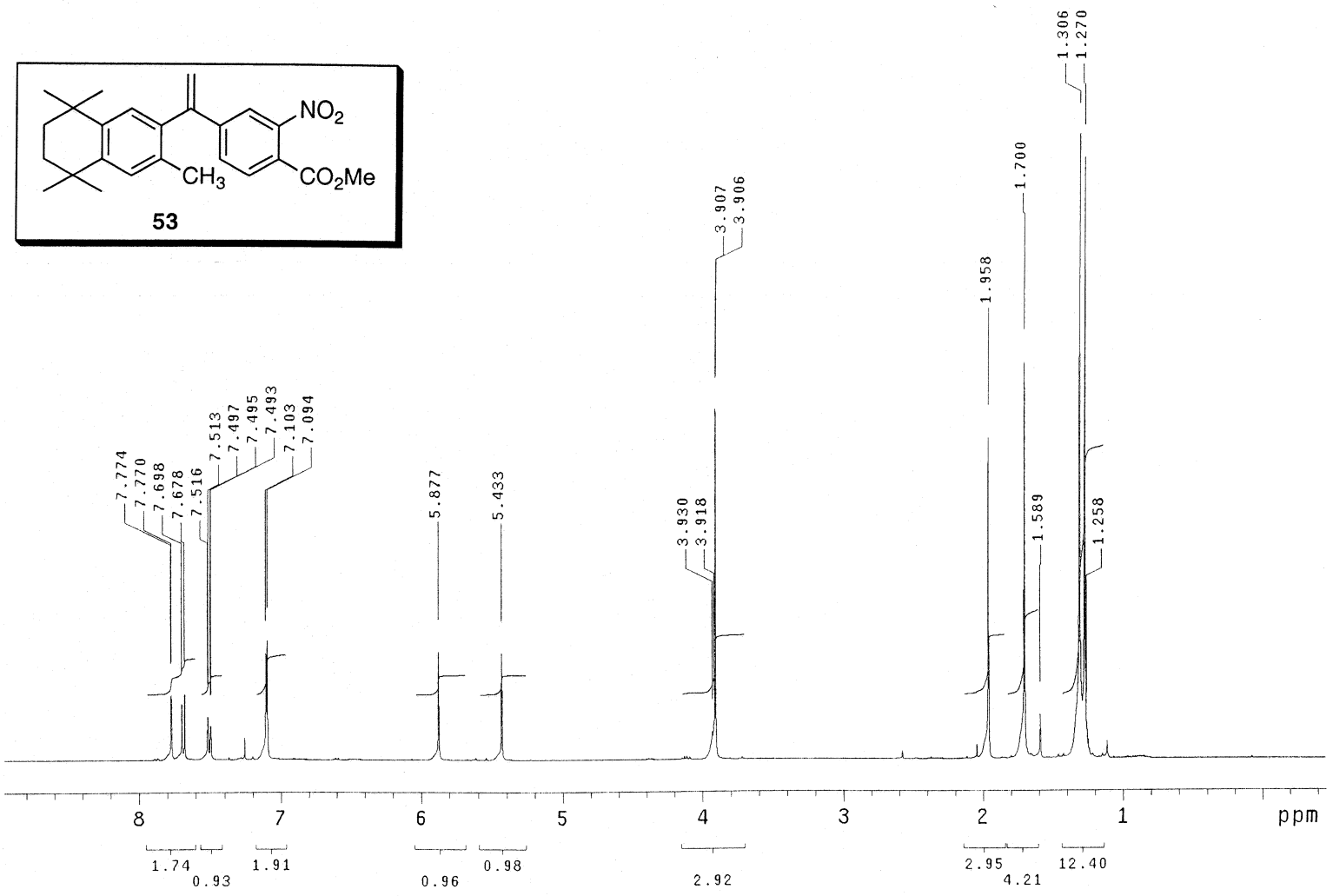


cwI-113

File : home/inova400/NMR_User_Data/wagner/cwI_113H_6august07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

53

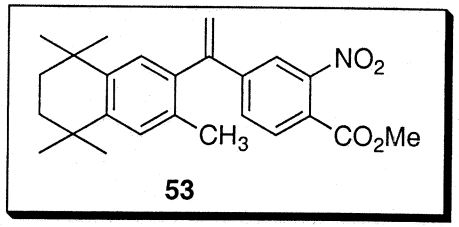


S63

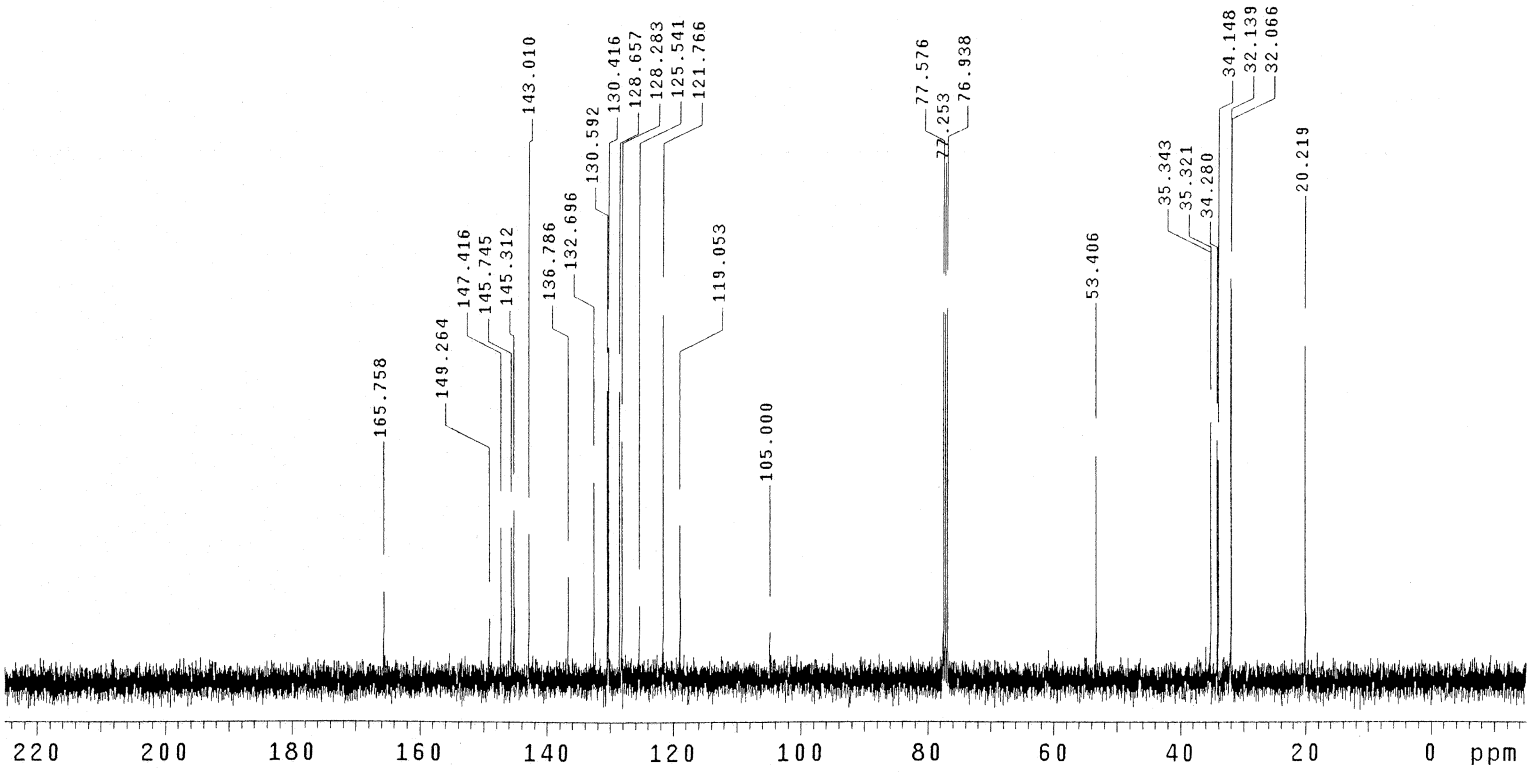
cwI-113

File : home/inova400/NMR_User_Data/wagner/cwI_113C_6august07.fid
Sample id : tmpstudy

Pulse Sequence: s2pul

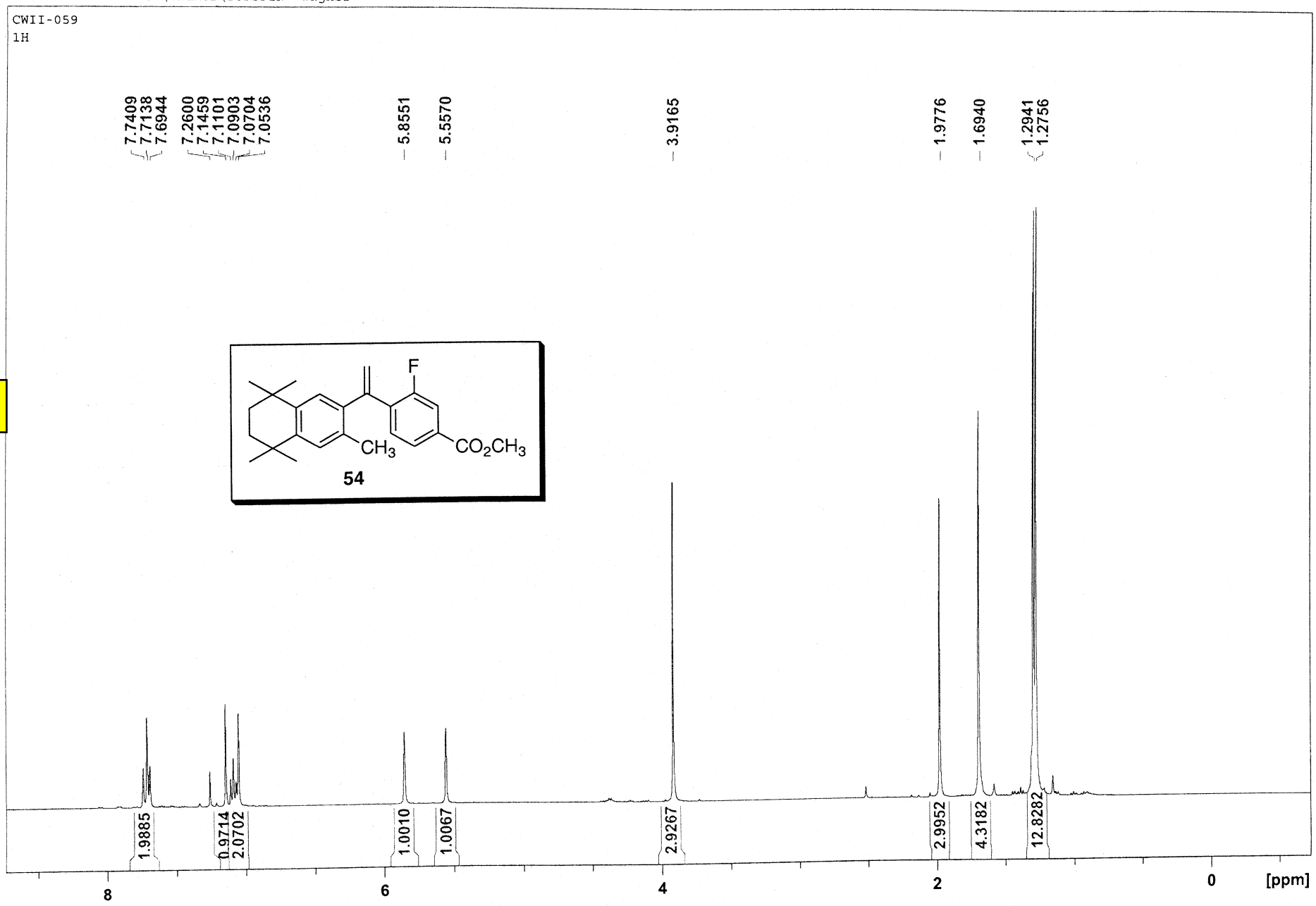


53



CWII-059 1 1 C:\Bruker\TOPSPIN wagner

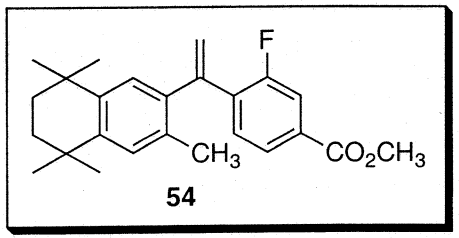
CWII-059
1H



CWII-059 2 1 C:\Bruker\TOPSPIN wagner

CWII-059
C13

S66



54

165.9000
165.8744
161.0434
158.5498
144.3661
143.4969
142.3369
138.3183
133.8239
133.7022
132.3348
130.6126
130.5802
130.5177
130.4378
128.0565
127.8020
124.9737
124.9398
121.3639
121.2909
117.2652
117.0138

77.3156
76.9984
76.6800

52.2925

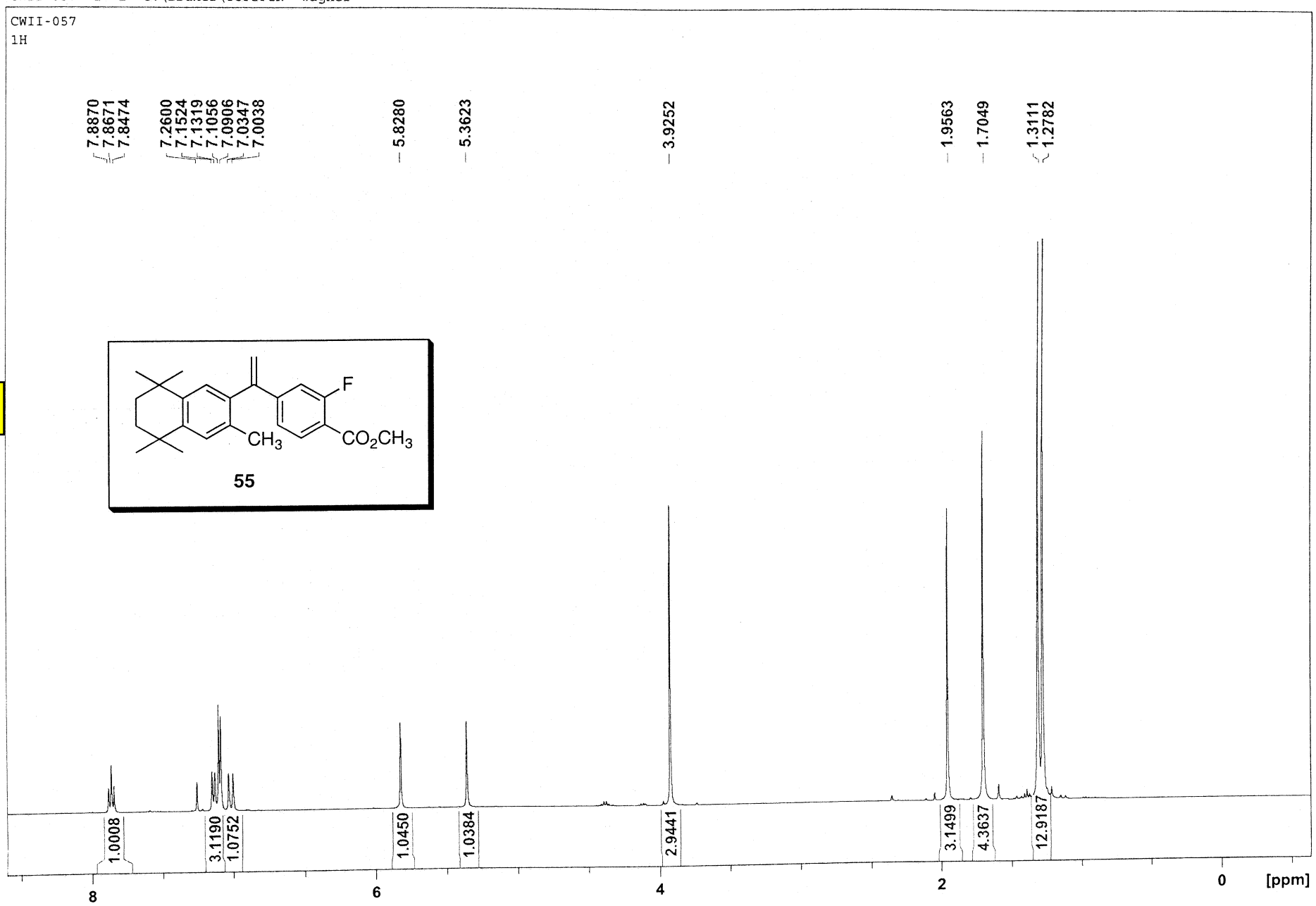
35.1559
35.1412
33.9558
33.8656
31.8894
31.8350

19.7565

200 150 100 50 0 [ppm]

CWII-057 1 1 C:\Bruker\TOPSPIN wagner

CWII-057
1H

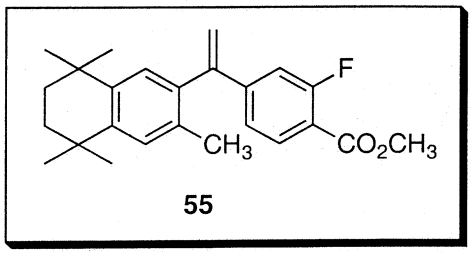


CWII-057 2 1 C:\Bruker\TOPSPIN wagner

CWII-057
C13

164.8012
164.7615
163.3093
160.7321
148.1082
147.8754
147.7905
144.6372
142.4587
137.2910
132.6184
132.0483
128.1417
128.0127
122.0391
122.0047
117.7428
117.1082
117.0063
115.0090
114.7764
77.3206
77.0025
76.6852
52.2402
35.1449
35.1244
33.9959
33.8763
31.9015
31.8496
19.8547

S68



55

200 150 100 50 0 [ppm]