

Supplementary Information for

Tandem Catalytic Oxidative Deacetylation of
Acetoacetic Esters and Hetero Aromatic Cyclizations

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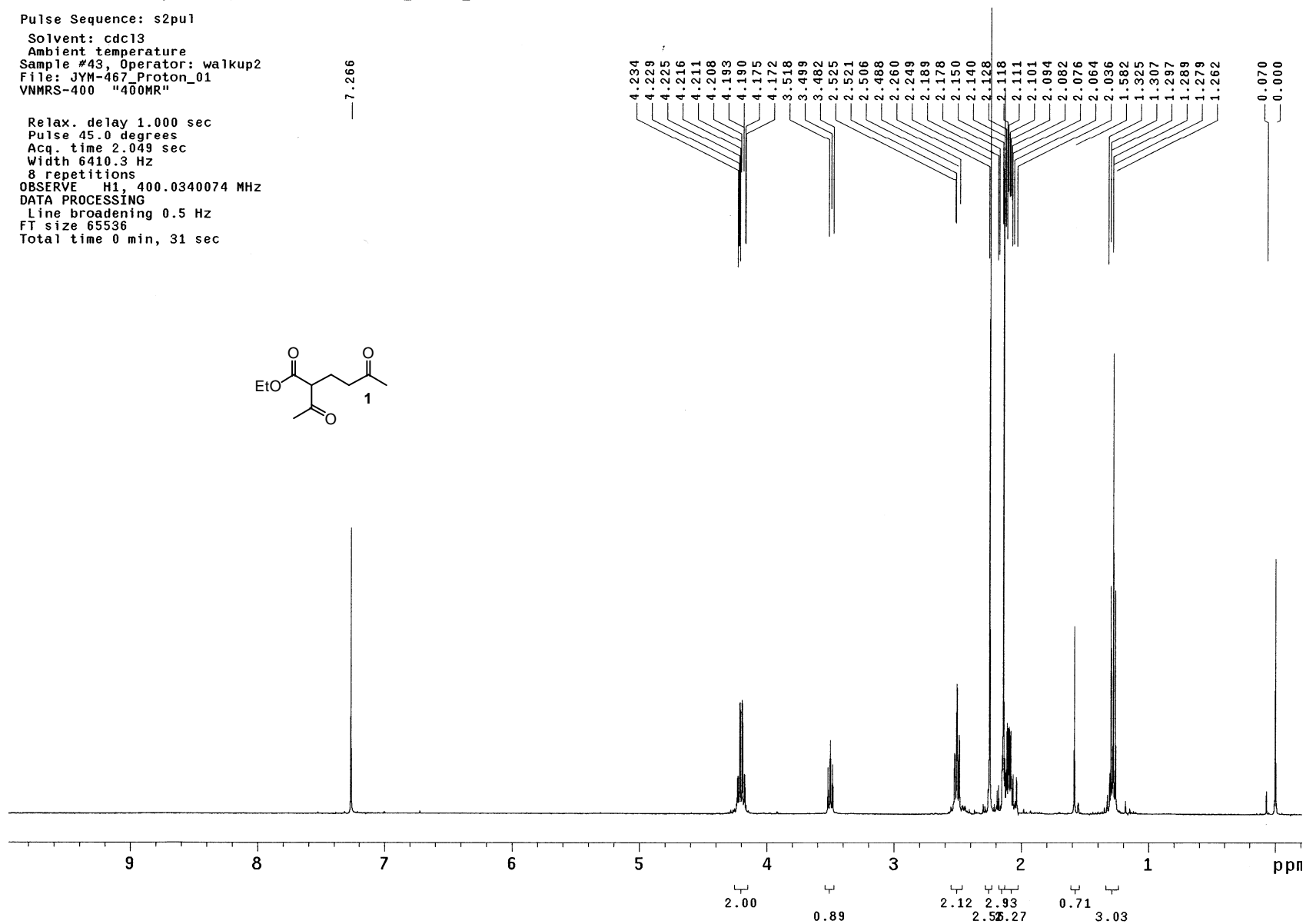
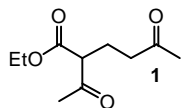
[¹H/¹³C NMR spectra for the new compounds]

JYM-467

Sample: JYM-467
Sample ID: s_43_JYM-467_koo-4_20130128_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-467_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdCl3
Ambient temperature
Sample #43, Operator: walkup2
File: JYM-467_Proton_01
VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340074 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec

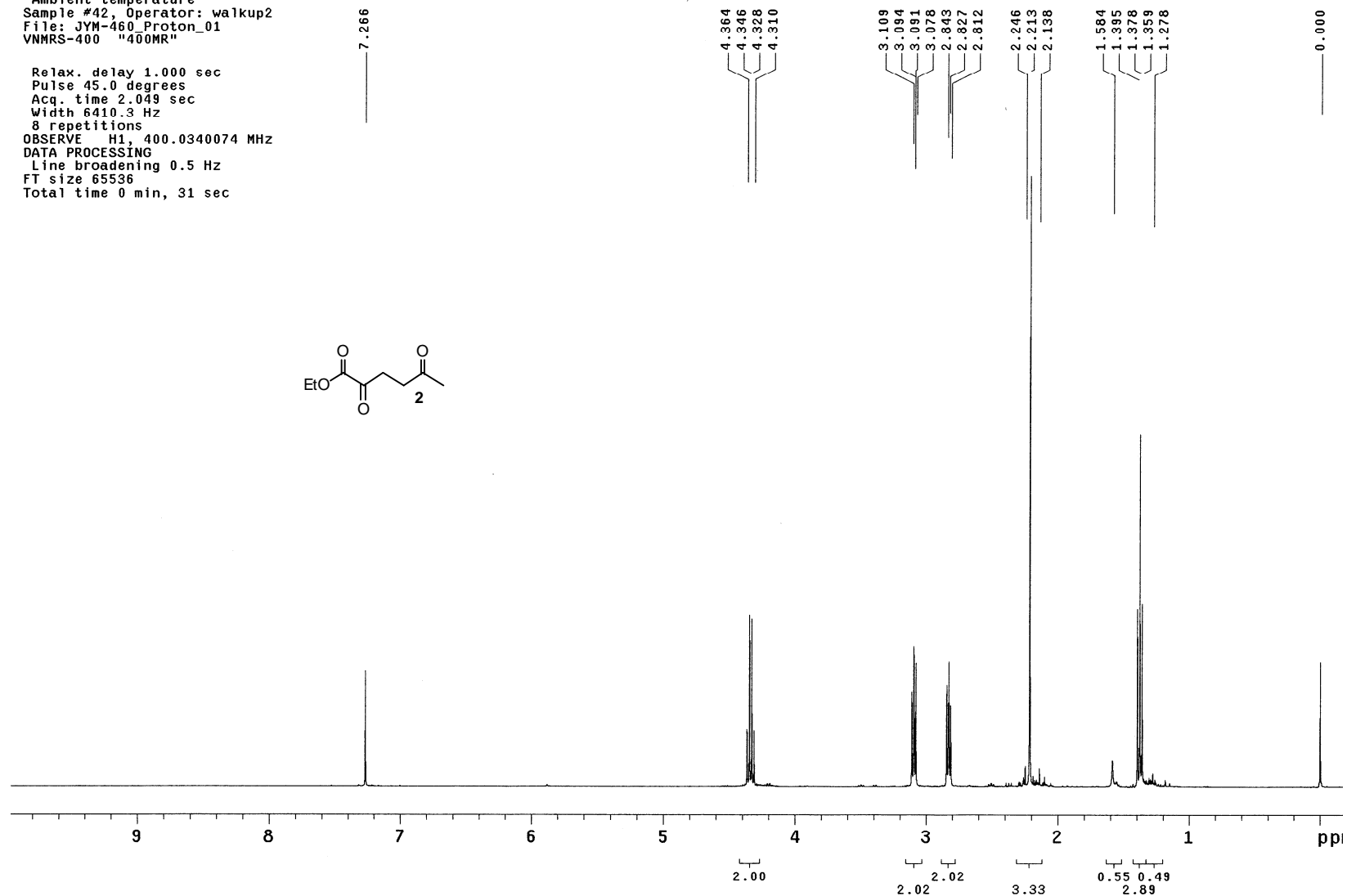
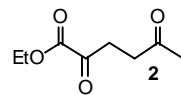


JYM-460

Sample: JYM-460
Sample ID: s_42_JYM-460_koo-4_20130123_01
File: /home/walkup2/vnmr/sys/data/koo-4/JYM-460_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #42, Operator: walkup2
File: JYM-460_Proton_01
VNMRs-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340074 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-686-2

Sample: JYM-686-2
Sample ID: s_41_JYM-686-2_koo-4_20130619_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-686-2_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdcl3
Ambient temperature
Sample #41, Operator: walkup2
File: JYM-686-2_Proton_01
VNMR-400 "400MR"

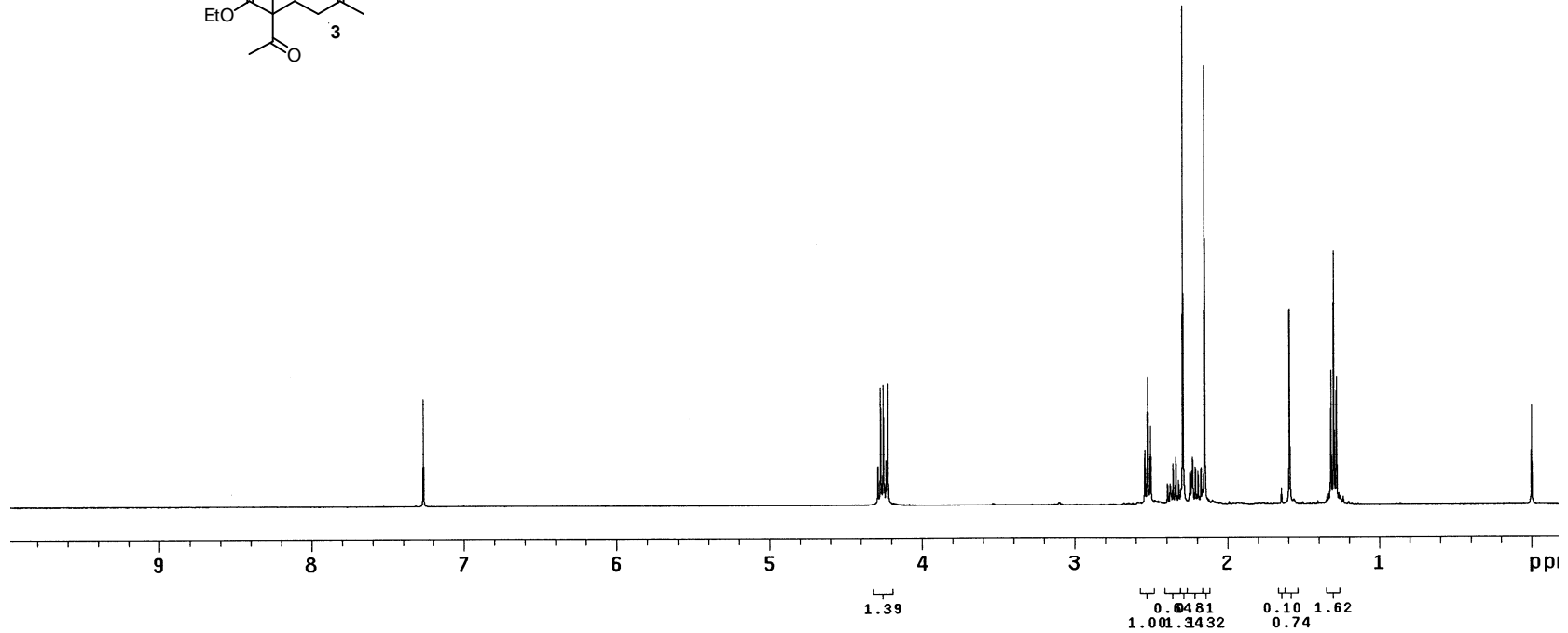
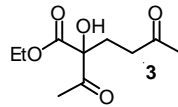
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340078 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec

7.265

4.287
4.270
4.252
4.234
4.222

2.539
2.521
2.503
2.356
2.338
2.319
2.292
2.247
2.235
2.228
2.210
2.192
2.173
2.149
1.591
1.517
1.299
1.281

0.000



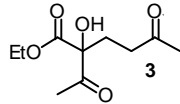
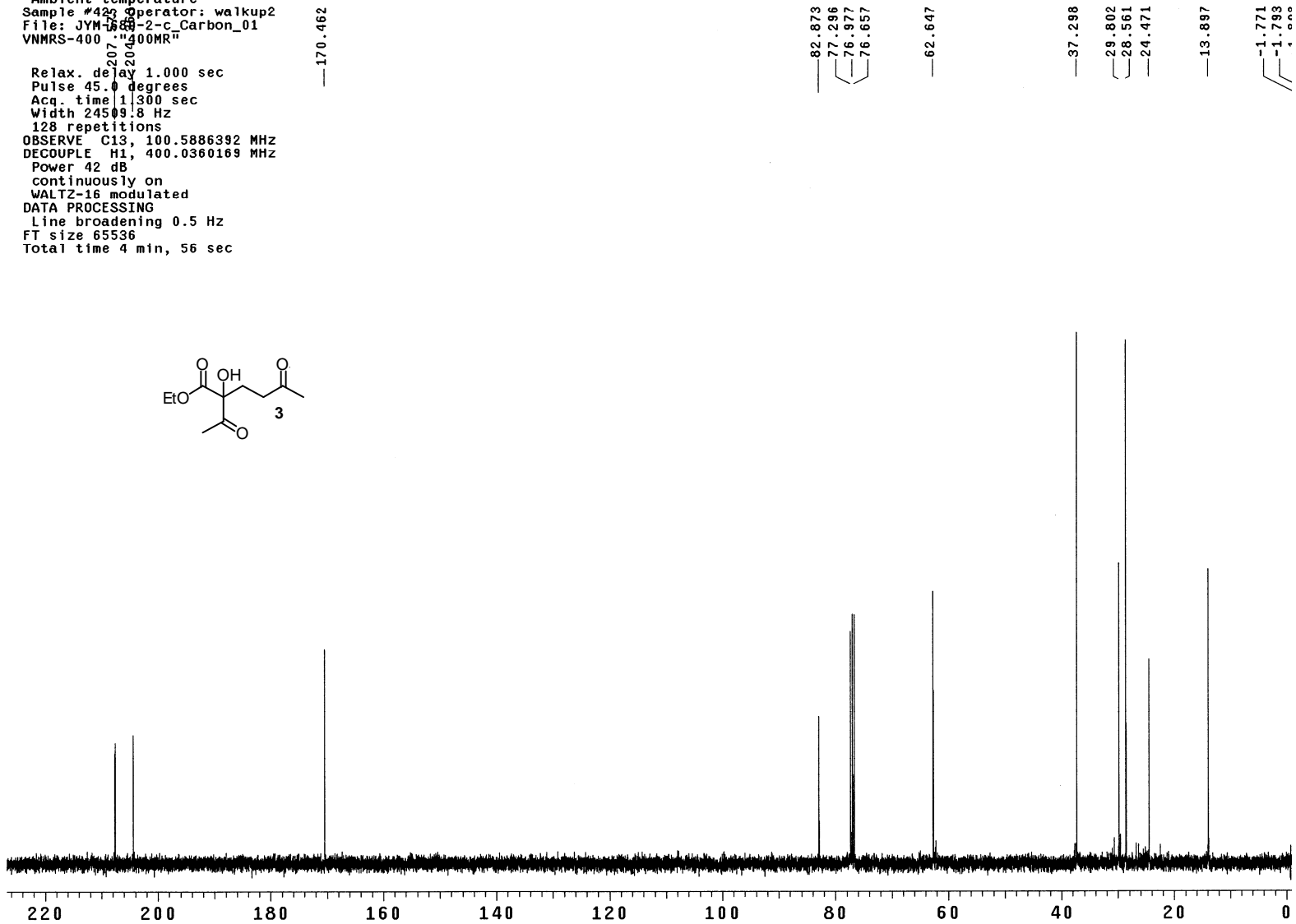
JYM-680-2-c

Sample: JYM-680-2-c
Sample ID: s_42_JYM-680-2-c_koo-4_20130620_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-680-2-c_Carbon_01.fid

Pulse Sequence: s2pul

Solvent: cdc13
Ambient temperature
Sample #422 Operator: walkup2
File: JYM-680-2-c_Carbon_01
VNMRS-400 "400MR"

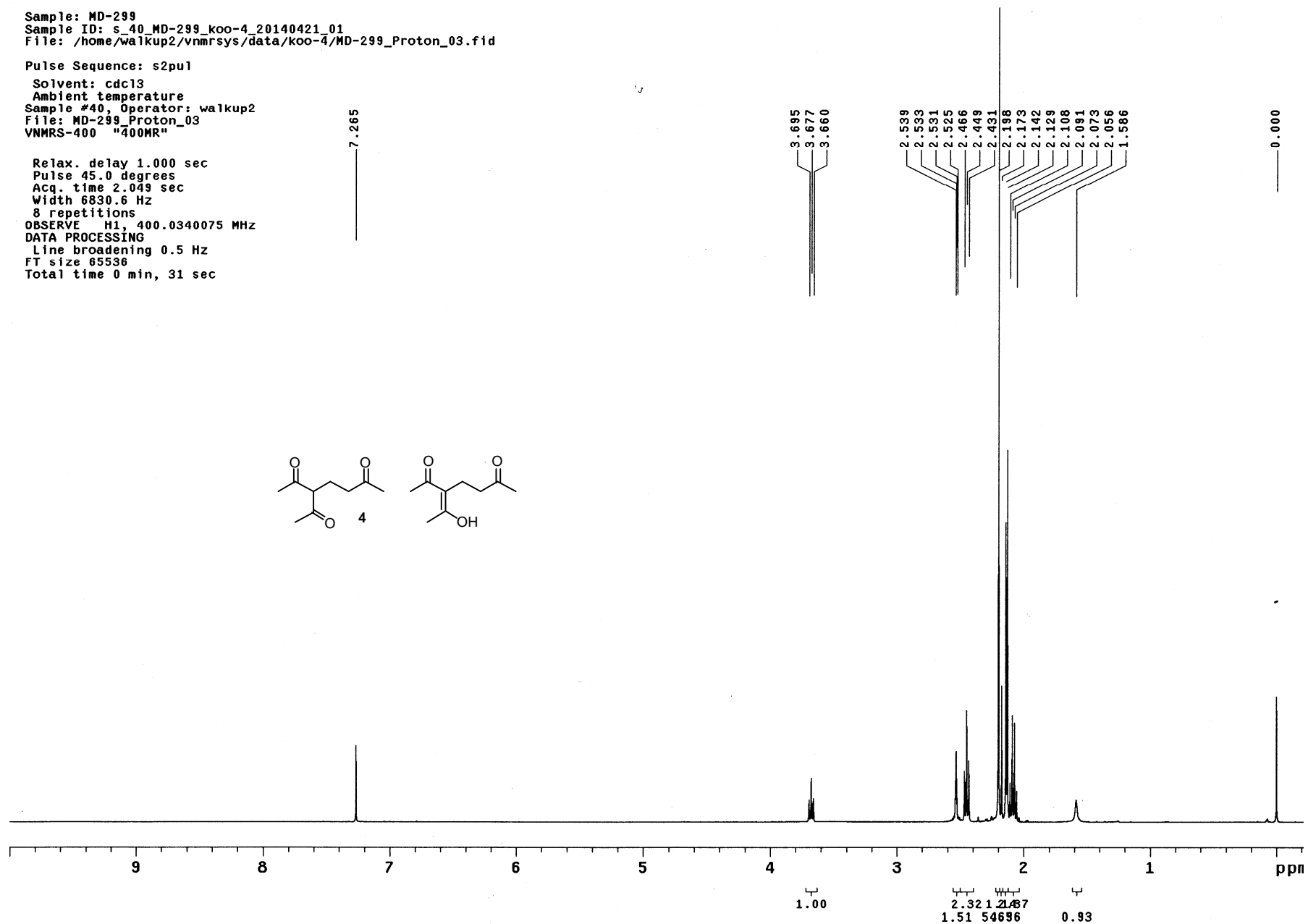
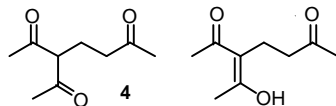
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886392 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec



Sample: MD-299
 Sample ID: s_40_MD-299_koo-4_20140421_01
 File: /home/walkup2/vnmrsys/data/koo-4/MD-299_Proton_03.fid

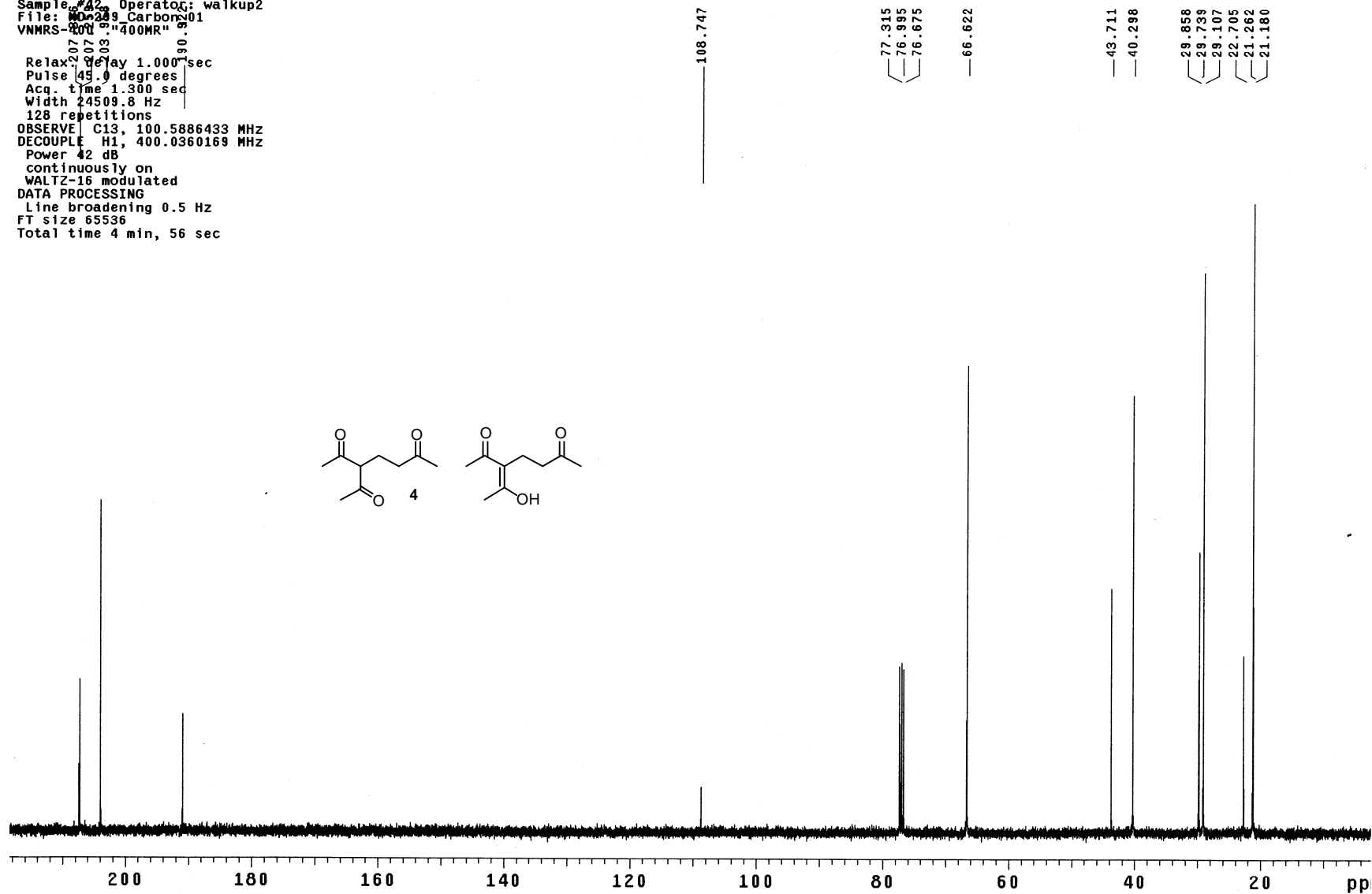
Pulse Sequence: s2pu1
 Solvent: cdc13
 Ambient temperature
 Sample #40, Operator: walkup2
 File: MD-299_Proton_03
 VNMRS-400 "400MR"

Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 2.049 sec
 Width 6830.6 Hz
 8 repetitions
 OBSERVE H1, 400.0340075 MHz
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 65536
 Total time 0 min, 31 sec



Sample: MD-299
Sample ID: s_42_MD-299_koo-4_20140422_01
File: /home/walkup2/vnmrsys/data/koo-4/MD-299_Carbon_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample: 742 Operator: walkup2
File: MD-299_Carbon_01
VNMR-200 "400MR"
Relax delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886433 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

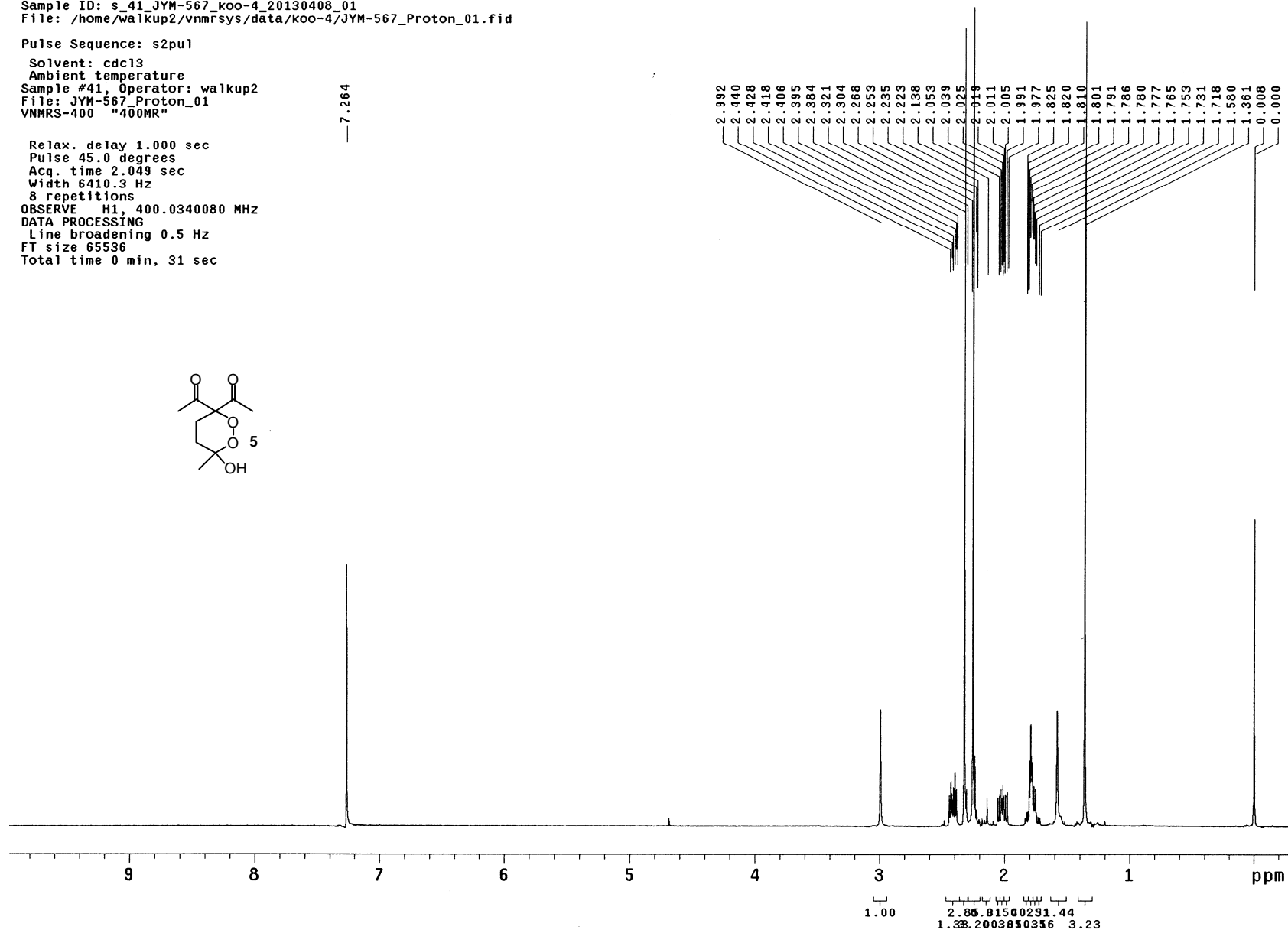
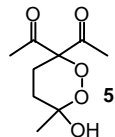


JYM-567

Sample: JYM-567
Sample ID: s_41_JYM-567_koo-4_20130408_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-567_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #41, Operator: walkup2
File: JYM-567_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340080 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



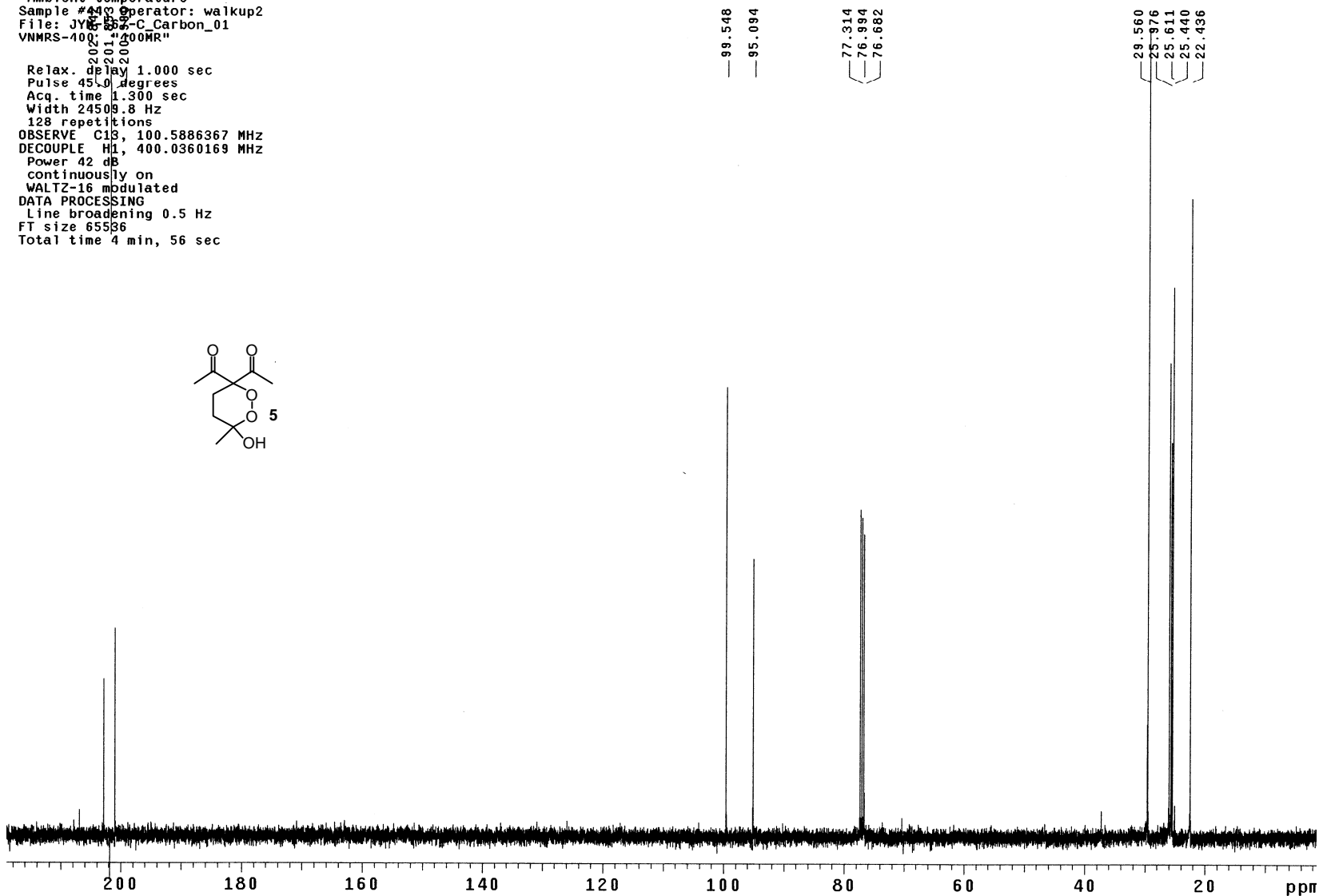
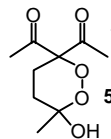
JYM-567-C

Sample: JYM-567-C
Sample ID: s_44_JYM-567-C_koo-4_20130408_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-567-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample # 449 Operator: walkup2
File: JYM-567-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886367 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

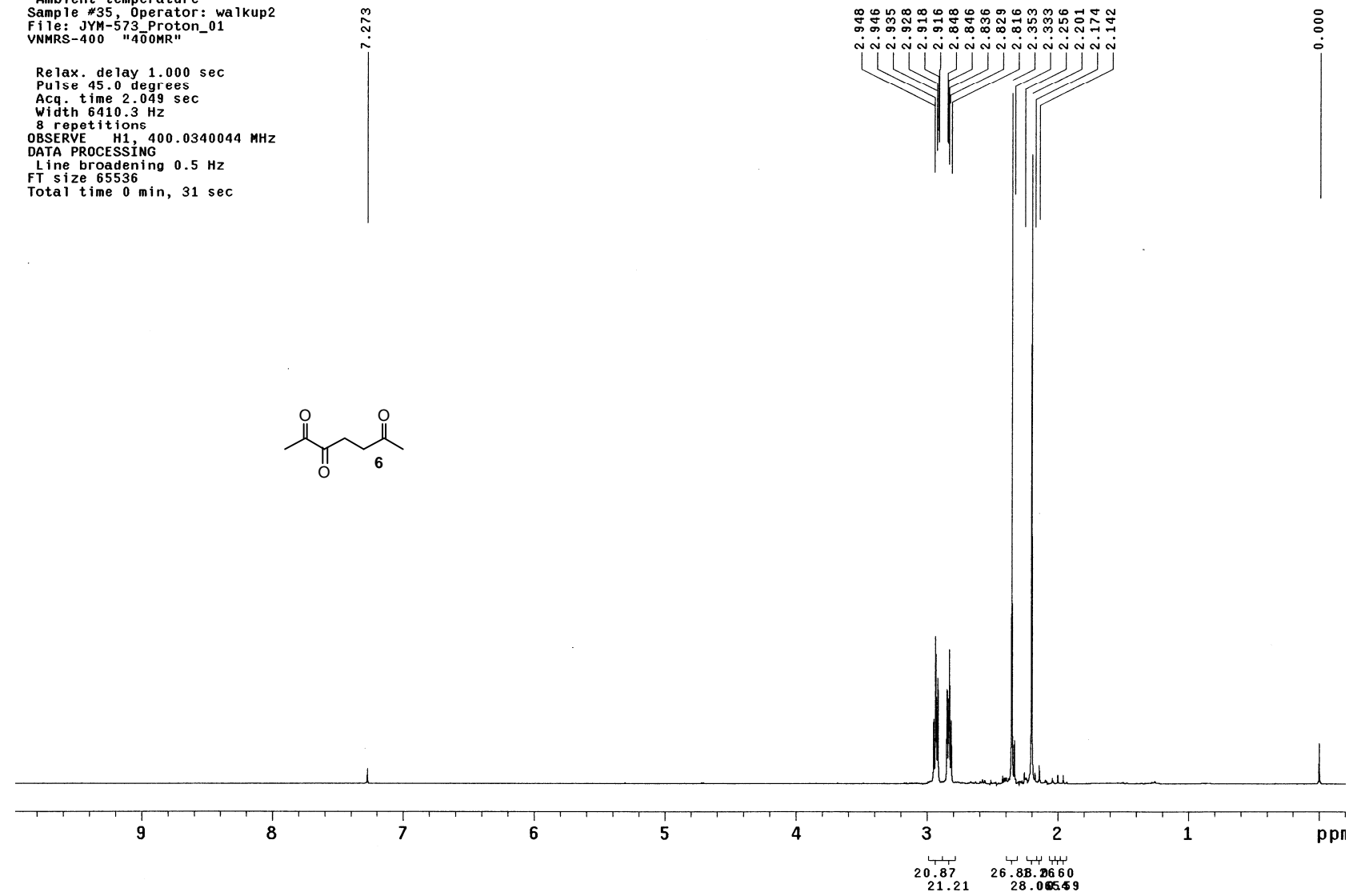
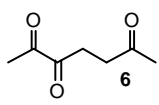


JYM-573

Sample: JYM-573
Sample ID: s_35_JYM-573_koo-4_20130409_01
File: /home/walkup2/vnmrSYS/data/koo-4/JYM-573_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #35, Operator: walkup2
File: JYM-573_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340044 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-573-C

Sample: JYM-573-C
Sample ID: s_41_JYM-573-C_koo-4_20130730_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-573-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #41 Operator: walkup2
File: JYM-573-C_Carbon_01
VNMR-400 400MHz

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886344 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec

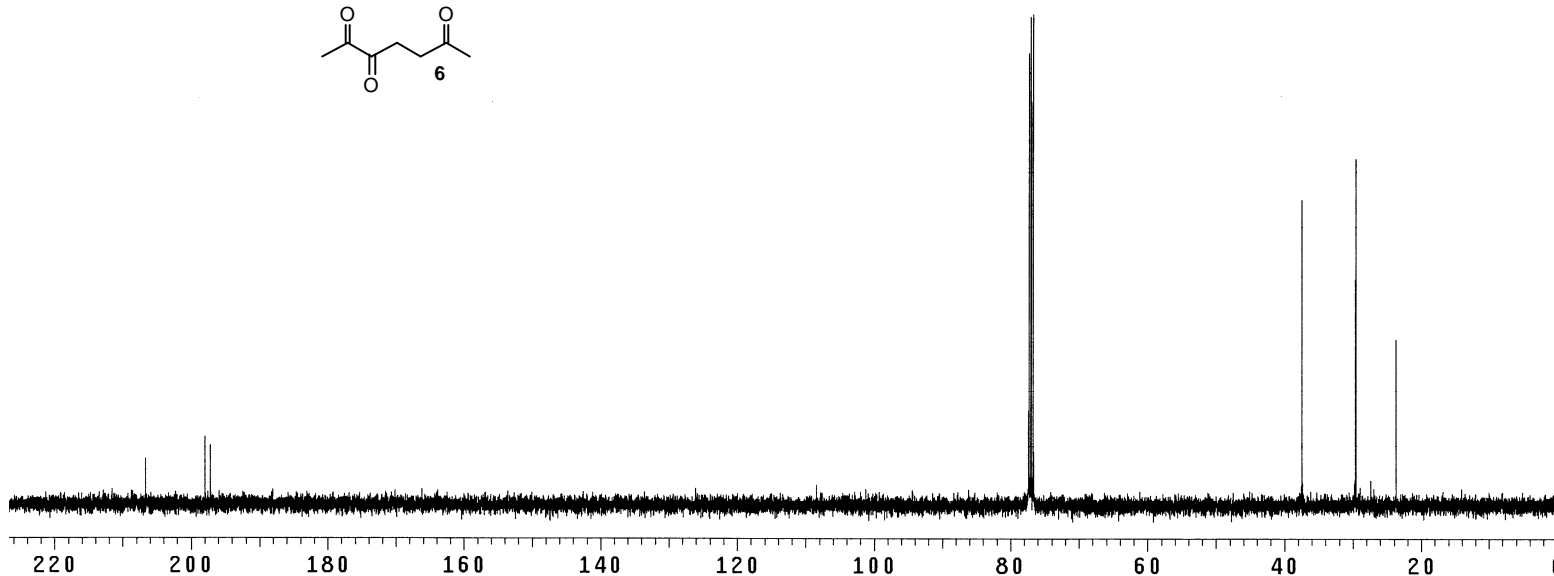
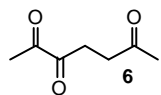
77.289
76.980
76.660

37.450

29.545

23.641

1.515
1.530

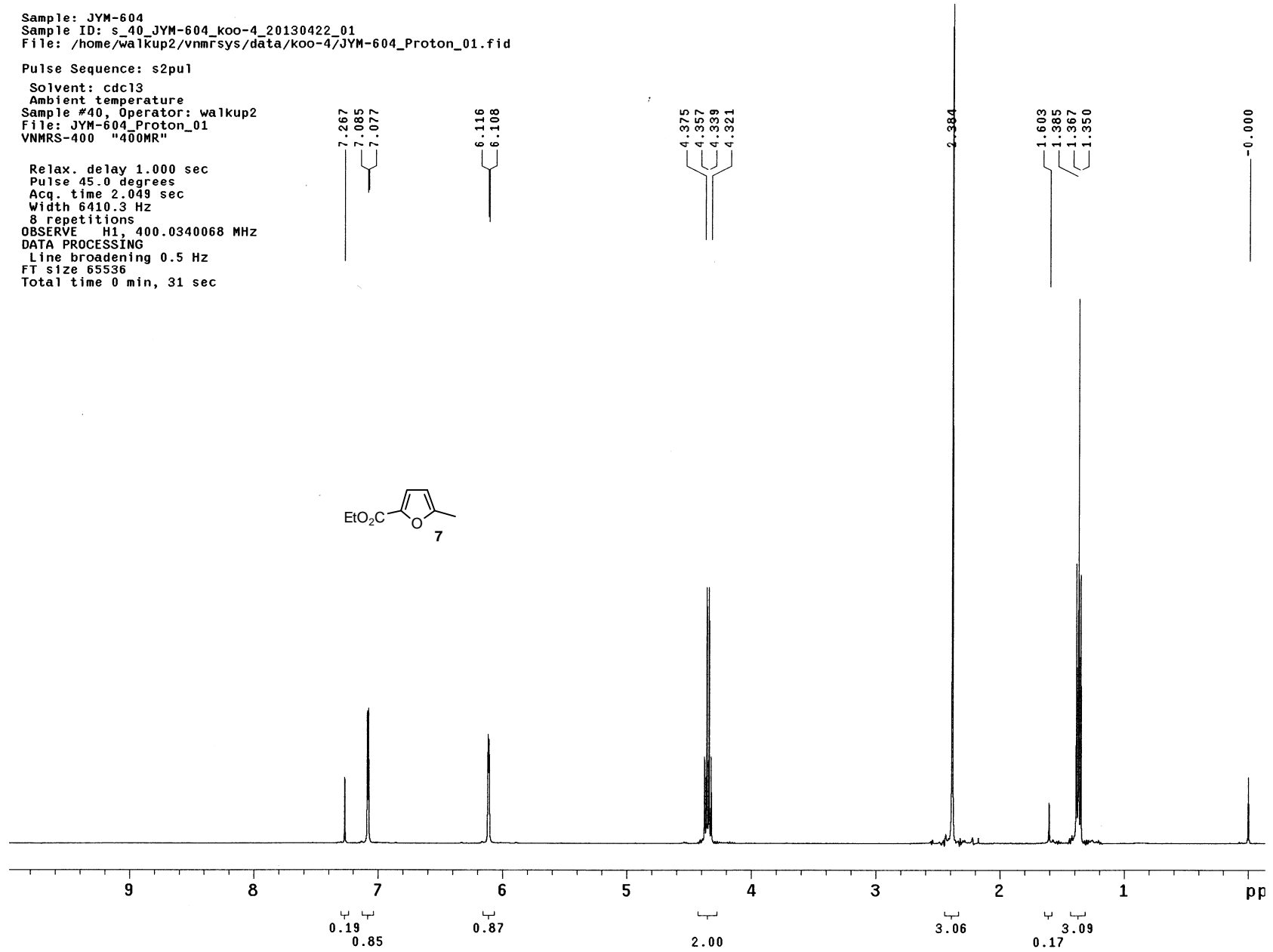
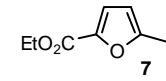


JYM-604

Sample: JYM-604
Sample ID: s_40_JYM-604_koo-4_20130422_01
File: /home/walkup2/vnmr/sys/data/koo-4/JYM-604_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdcl3
Ambient temperature
Sample #40, Operator: walkup2
File: JYM-604_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340068 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



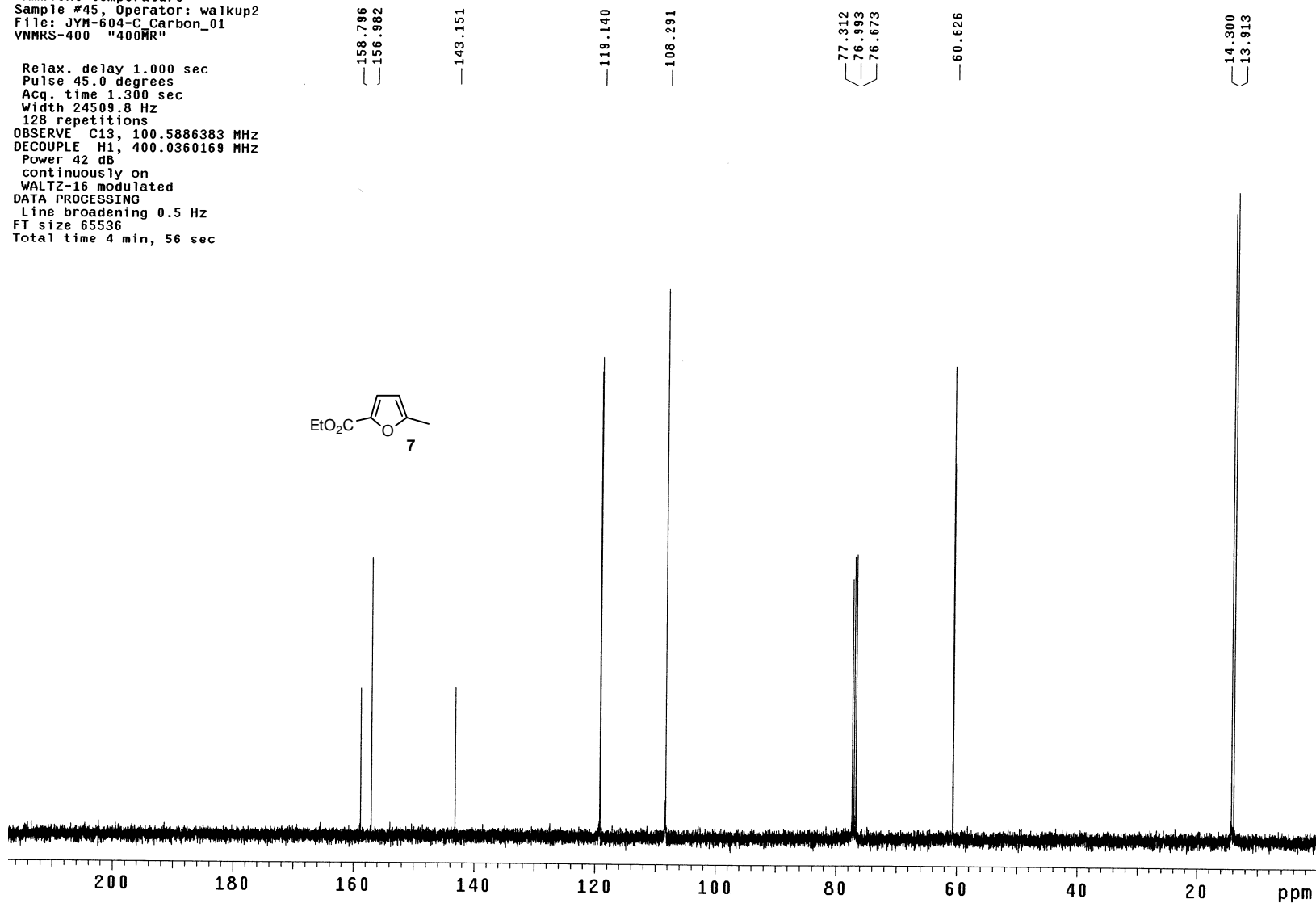
JYM-604-C

Sample: JYM-604-C
Sample ID: s_45_JYM-604-C_koo-4_20130423_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-604-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #45, Operator: walkup2
File: JYM-604-C_Carbon_01
VNMR5-400 "400MR"

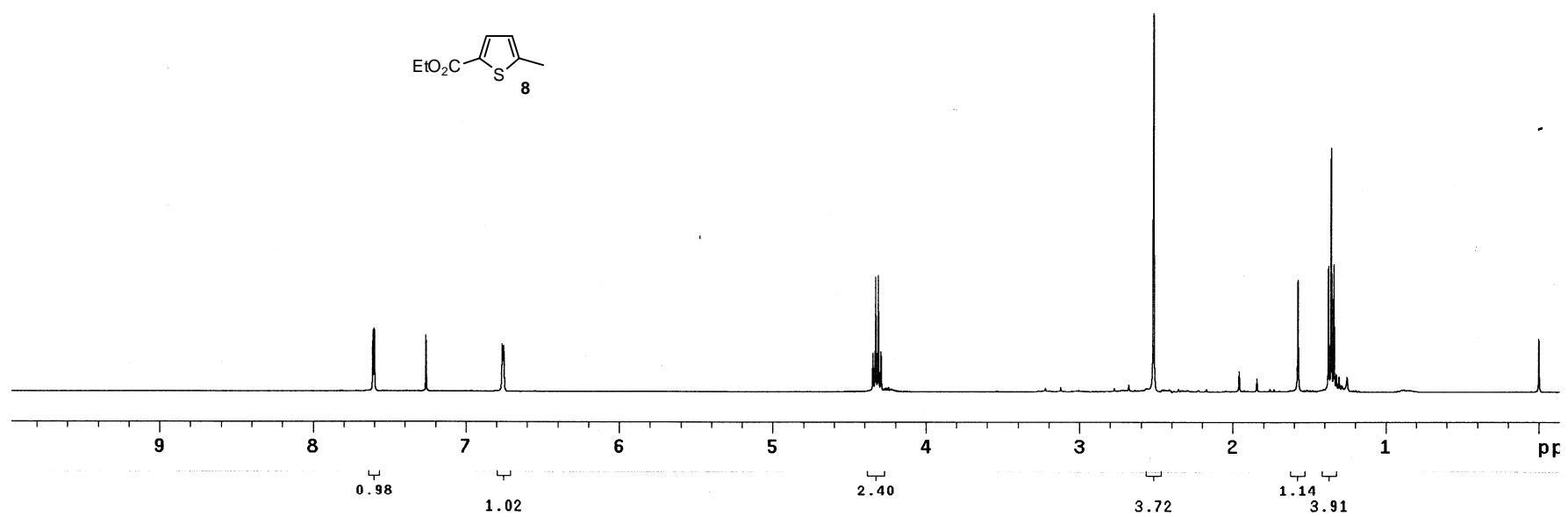
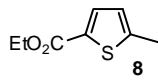
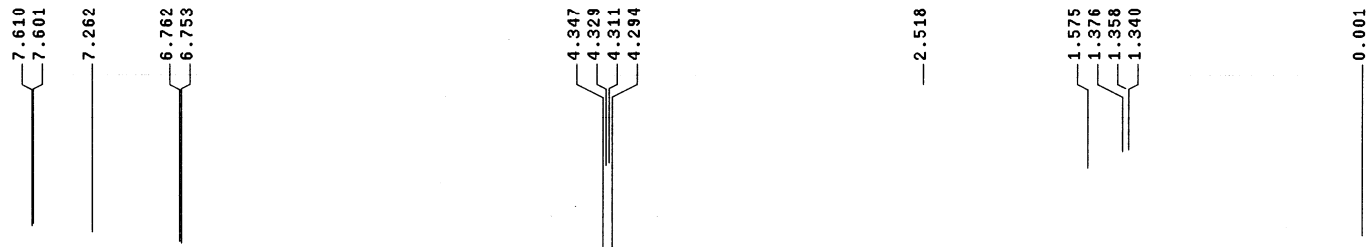
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886383 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec



Sample: MD-313-4
Sample ID: s_49_MD-313-4_koo-4_20140703_01
File: /home/walkup2/vnmrsys/data/koo-4/MD-313-4_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdcl3
Ambient temperature
Sample #49, Operator: walkup2
File: MD-313-4_Proton_01
VNMRs-400 "400MR"

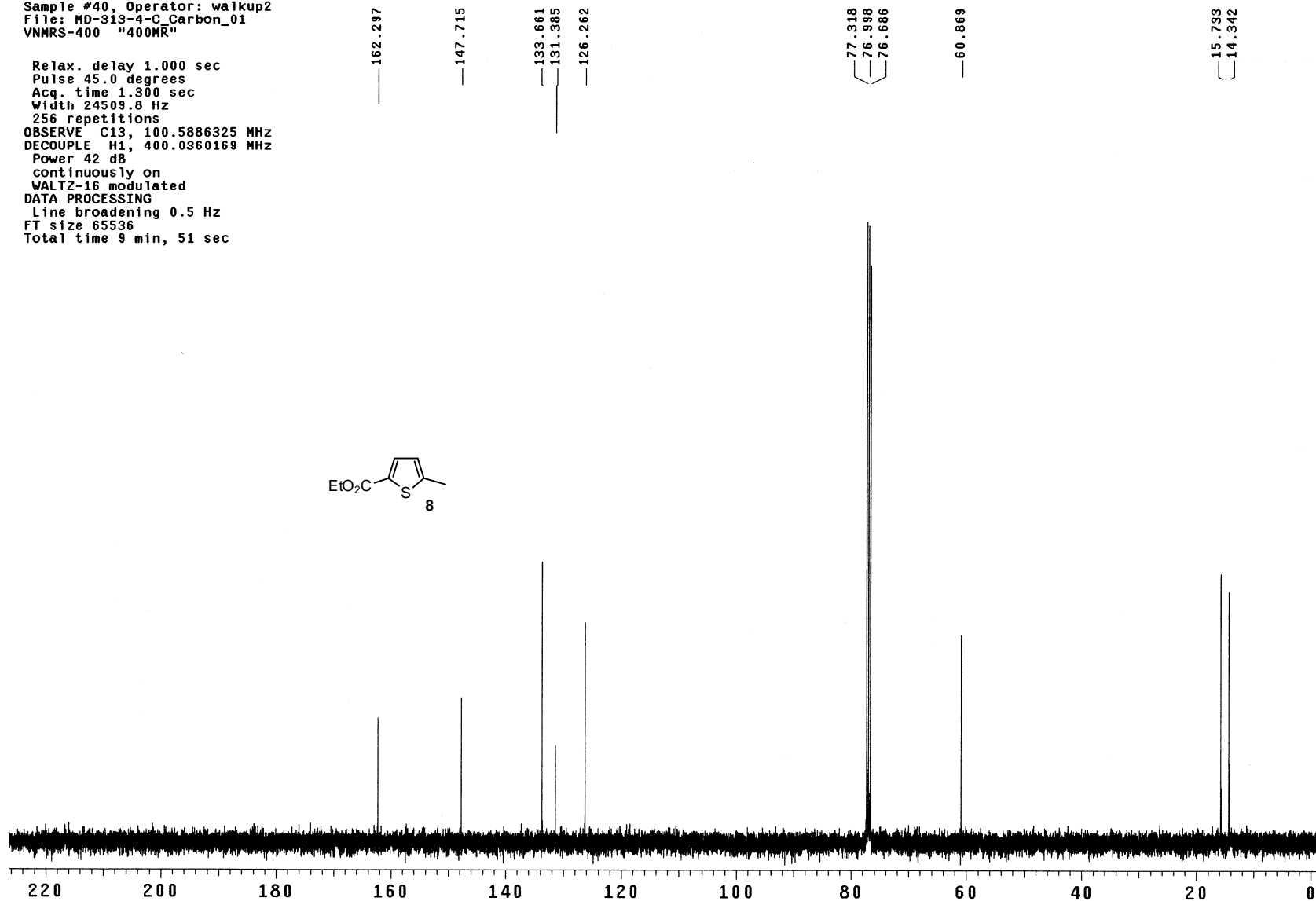
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6830.6 Hz
8 repetitions
OBSERVE H1, 400.0340091 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



Sample: MD-313-4-C
Sample ID: s_40_MD-313-4-C_koo-4_20140703_01
File: /home/walkup2/vnmrSYS/data/koo-4/MD-313-4-C_Carbon_01.fid

Pulse Sequence: s2pu1
Solvent: cdcl3
Ambient temperature
Sample #40, Operator: walkup2
File: MD-313-4-C_Carbon_01
VNMR5-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
256 repetitions
OBSERVE C13, 100.5886325 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 9 min, 51 sec



JYM-461

Sample: JYM-461

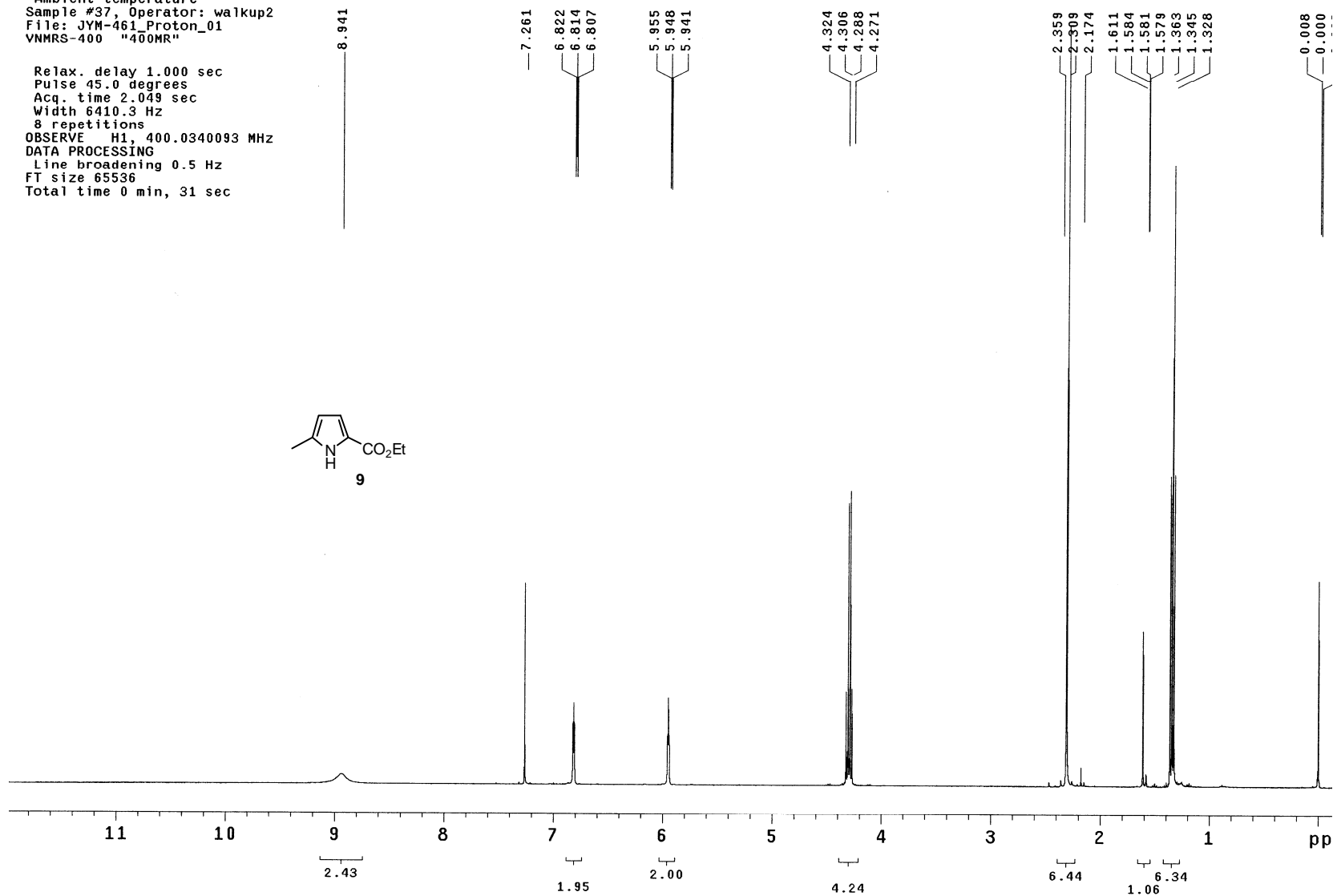
Sample ID: s_37_JYM-461_koo-4_20130124_01

File: /home/walkup2/vnmr/sys/data/koo-4/JYM-461_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #37, Operator: walkup2
File: JYM-461_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340093 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



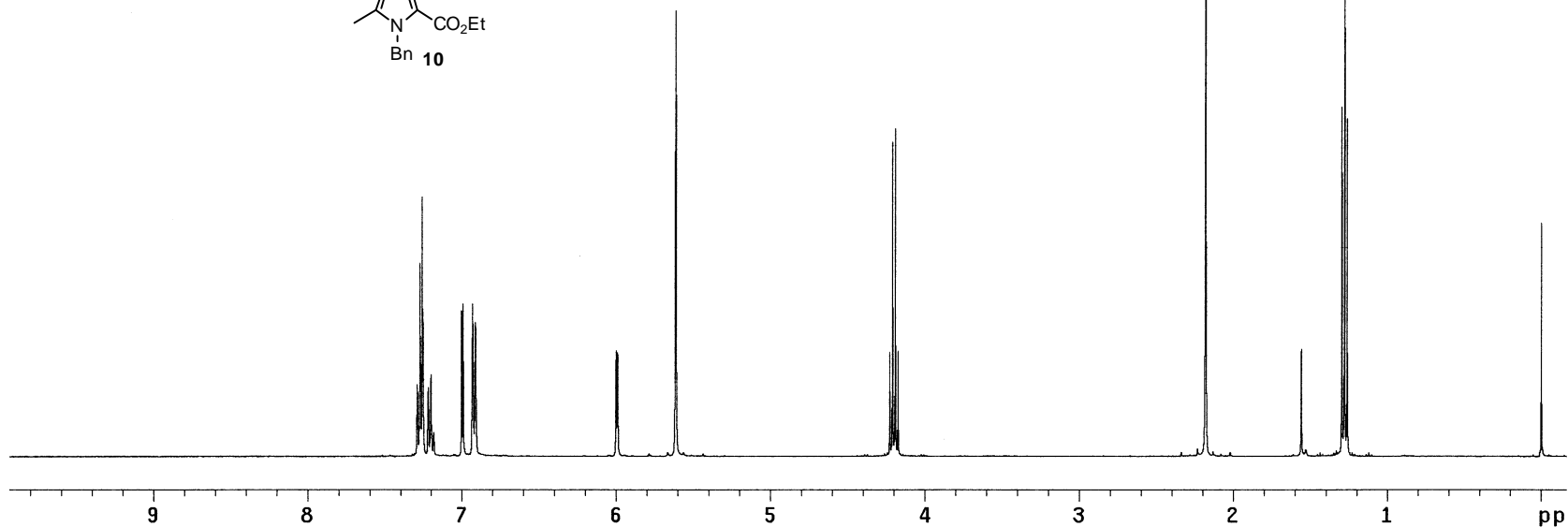
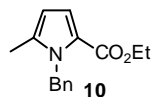
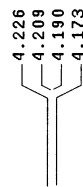
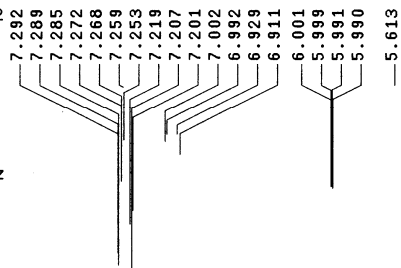
JYM-469

Sample: JYM-469
Sample ID: s_41_JYM-469_koo-4_20130129_01
File: /home/walkup2/vnmr/proc/data/koo-4/JYM-469_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #41, Operator: walkup2
File: JYM-469_Proton_01
VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340103 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



0.736
21.09
34.13
9.94

2.00

4.93

4.48

7.09

0.88

6.98

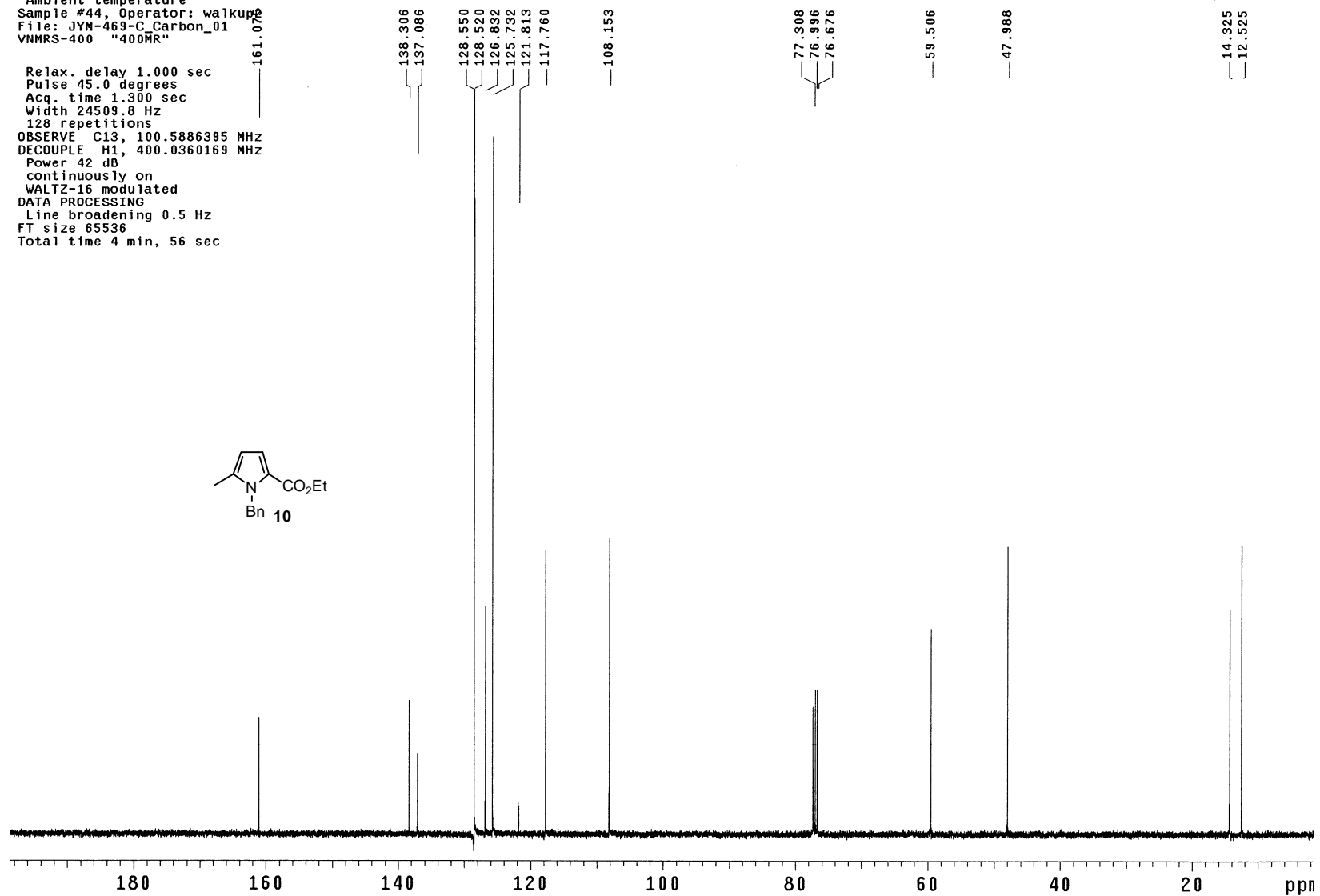
JYM-469-C

Sample: JYM-469-C
Sample ID: s_44_JYM-469-C_koo-4_20130129_01
File: /home/walkup2/vnmrsvs/data/koo-4/JYM-469-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #44, Operator: walkup
File: JYM-469-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886395 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

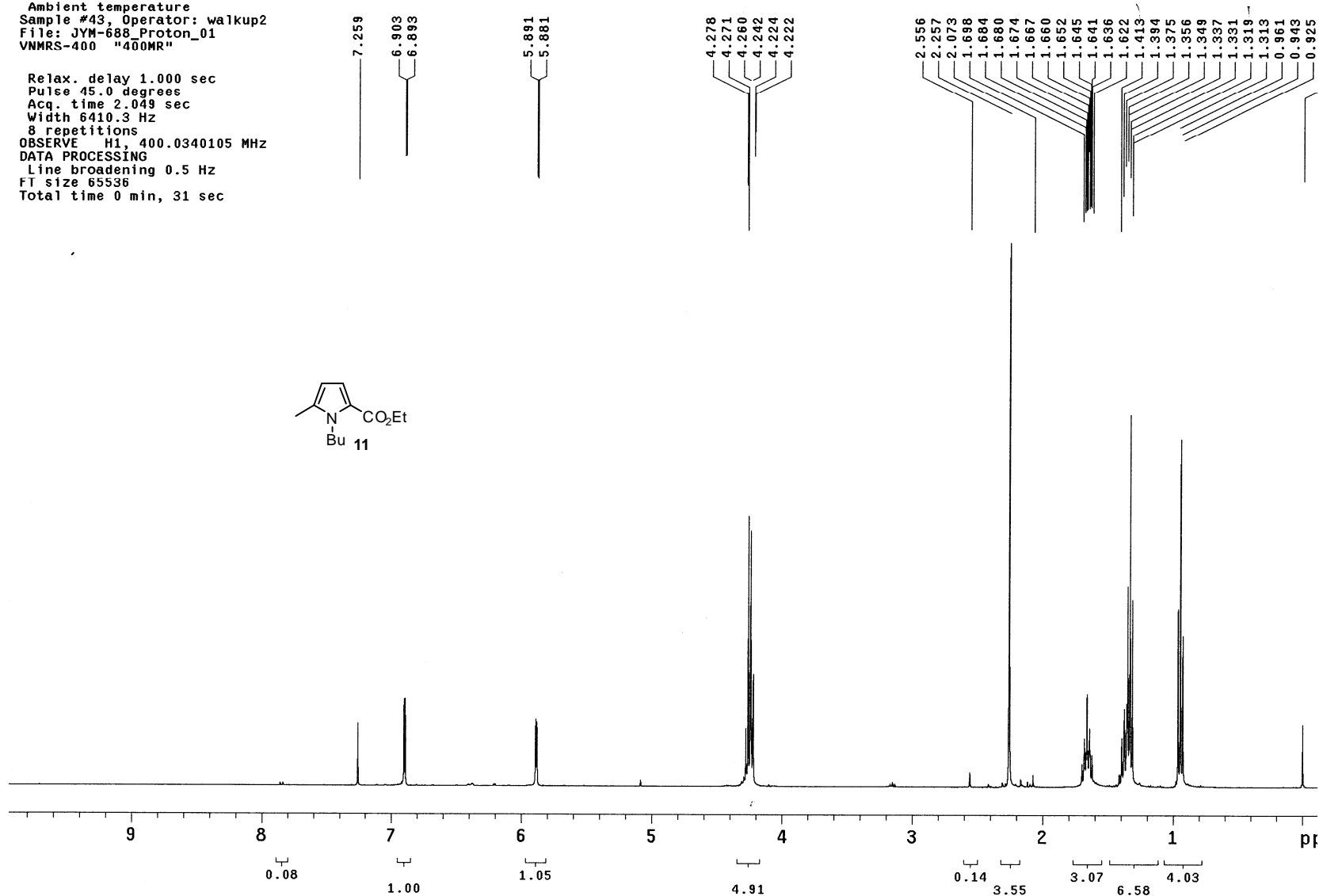


JYM-688

Sample: JYM-688
Sample ID: s_43_JYM-688_koo-4_20130628_01
File: /home/walkup2/vnmr/sys/data/koo-4/JYM-688_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #43, Operator: walkup2
File: JYM-688_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340105 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-688-C

Sample: JYM-688-C

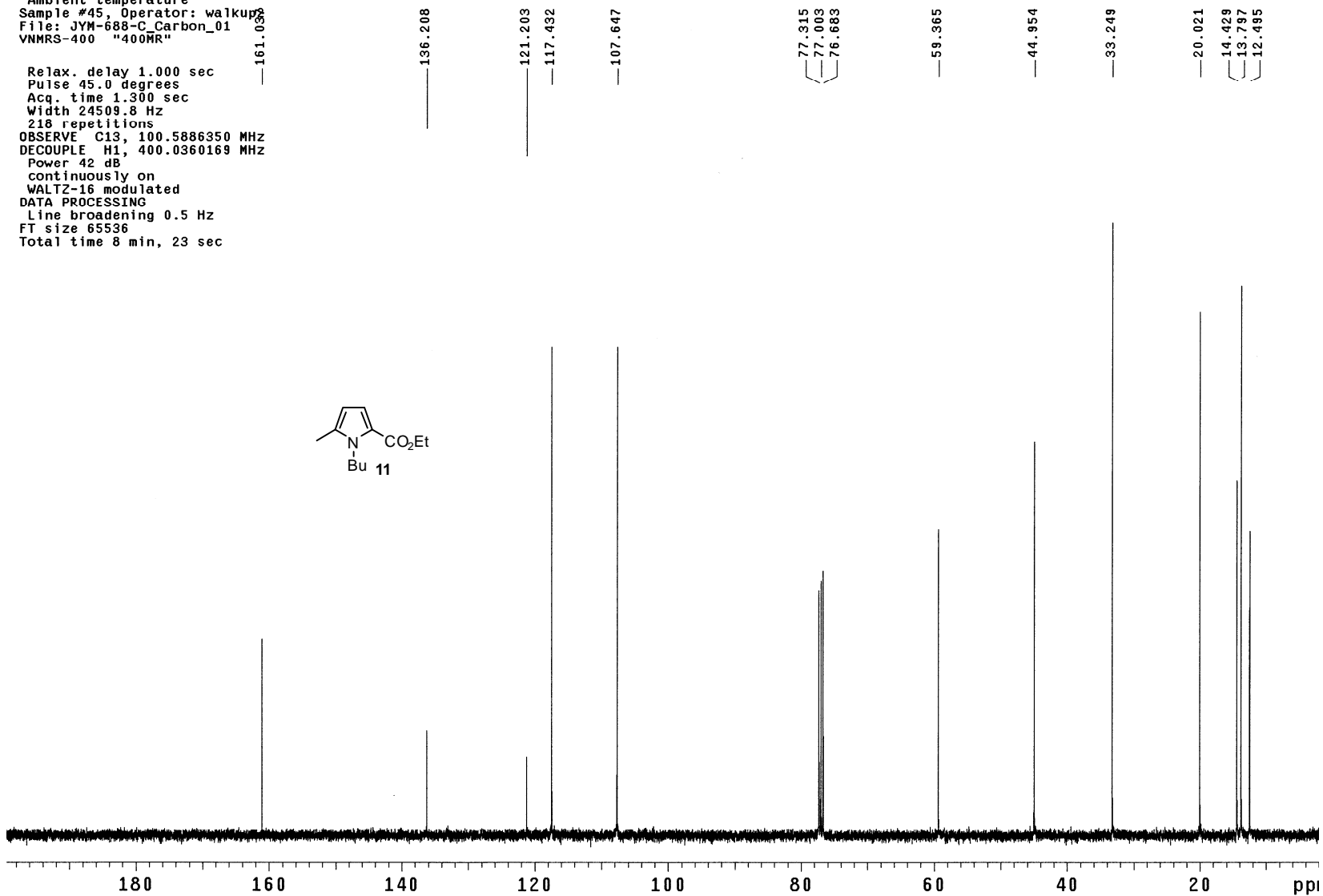
Sample ID: s_45_JYM-688-C_koo-4_20130628_01

File: /home/walkup2/vnmrSYS/data/koo-4/JYM-688-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #45, Operator: walkup
File: JYM-688-C_Carbon_01
VNMR-400 "400MR"

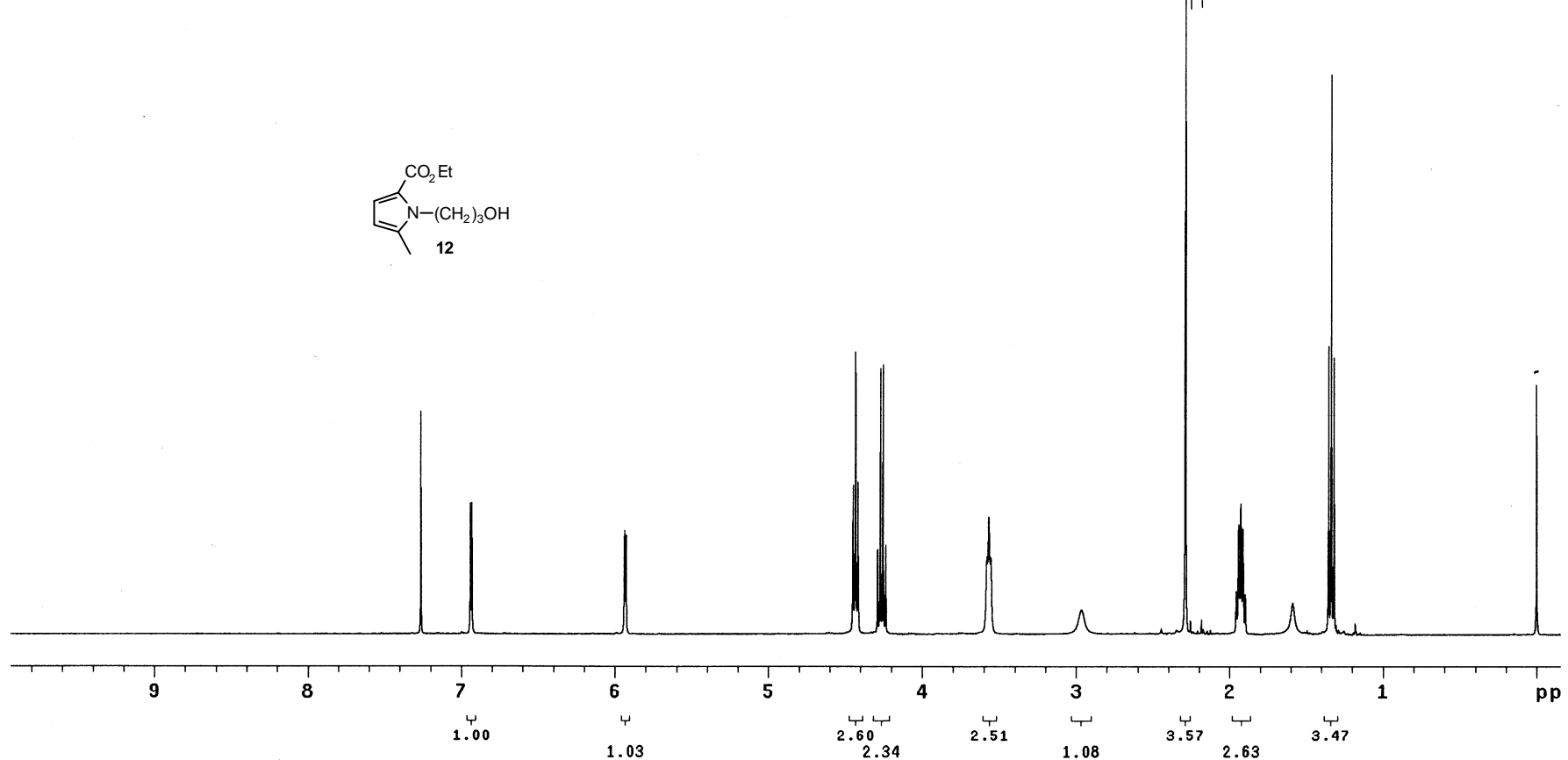
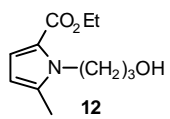
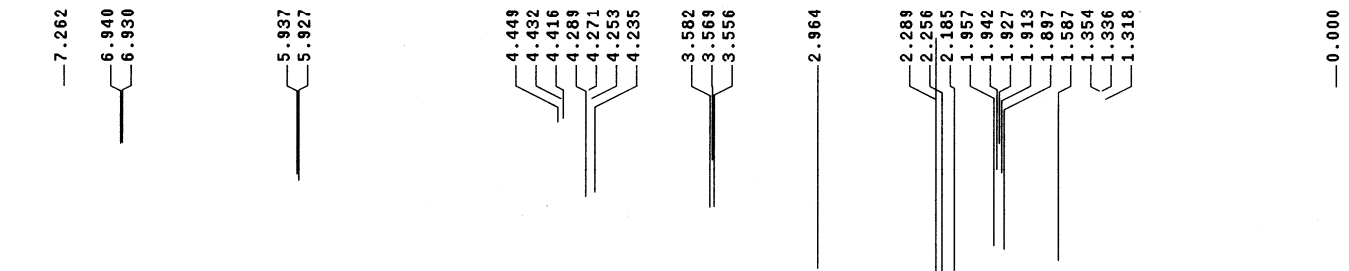
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
218 repetitions
OBSERVE C13, 100.5886350 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 8 min, 23 sec



Sample: MD-J-12
Sample ID: s_46_MD-J-12_koo-4_20140530_01
File: /home/walkup2/vnmr/sys/data/koo-4/MD-J-12_Proton_03.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #46, Operator: walkup2
File: MD-J-12_Proton_03
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6830.6 Hz
8 repetitions
OBSERVE H1, 400.0340091 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



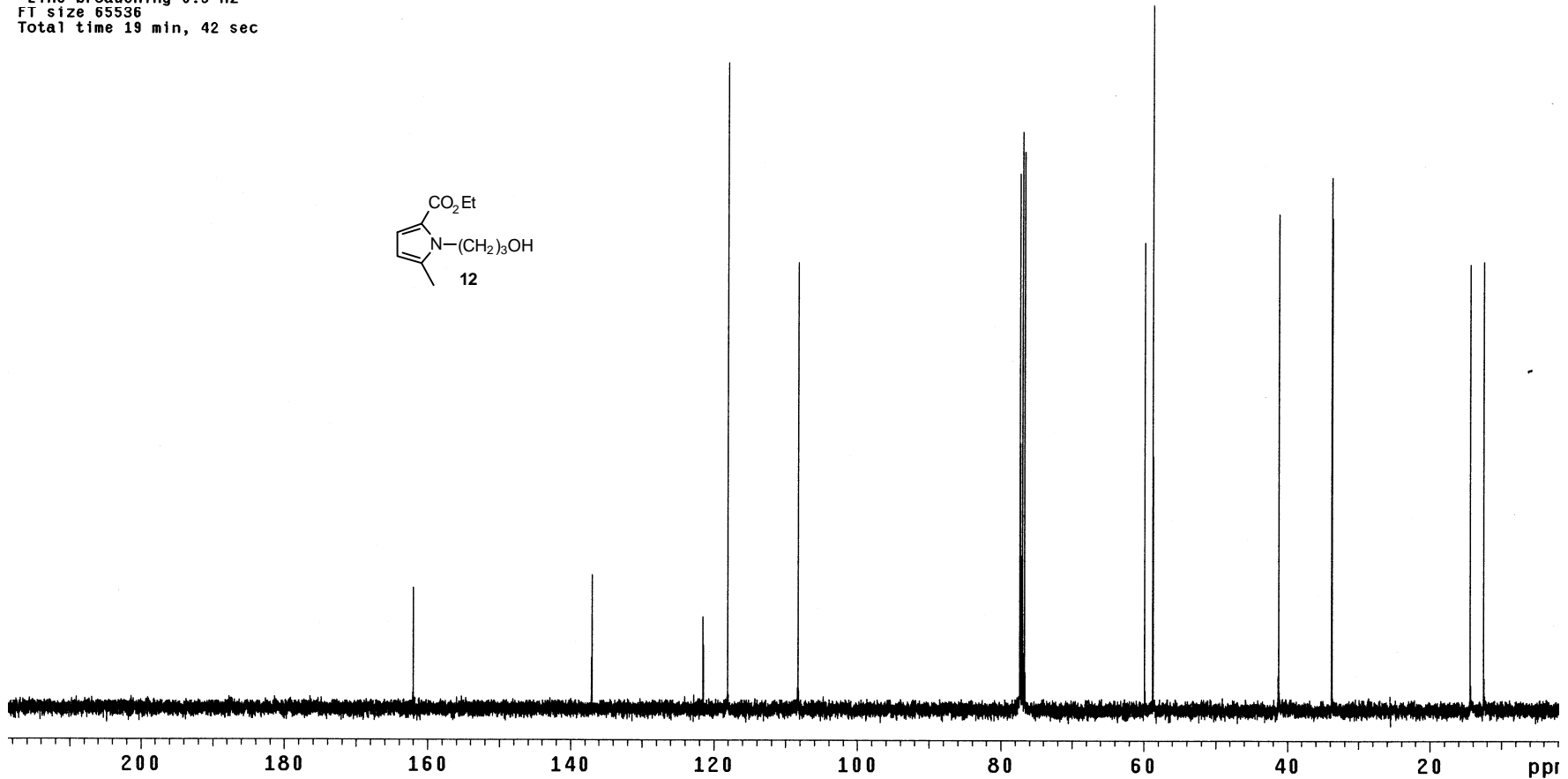
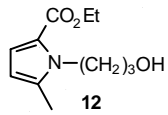
Sample: MD-J-12
Sample ID: s_46_MD-J-12_koo-4_20140603_01
File: /home/walkup2/vnmrsvs/data/koo-4/MD-J-12_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #46, Operator: walkup2
File: MD-J-12_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886342 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec

162.005
136.998
121.464
118.051
108.272
77.323
77.004
76.684
59.856
58.711
41.207
33.763
14.377
12.496

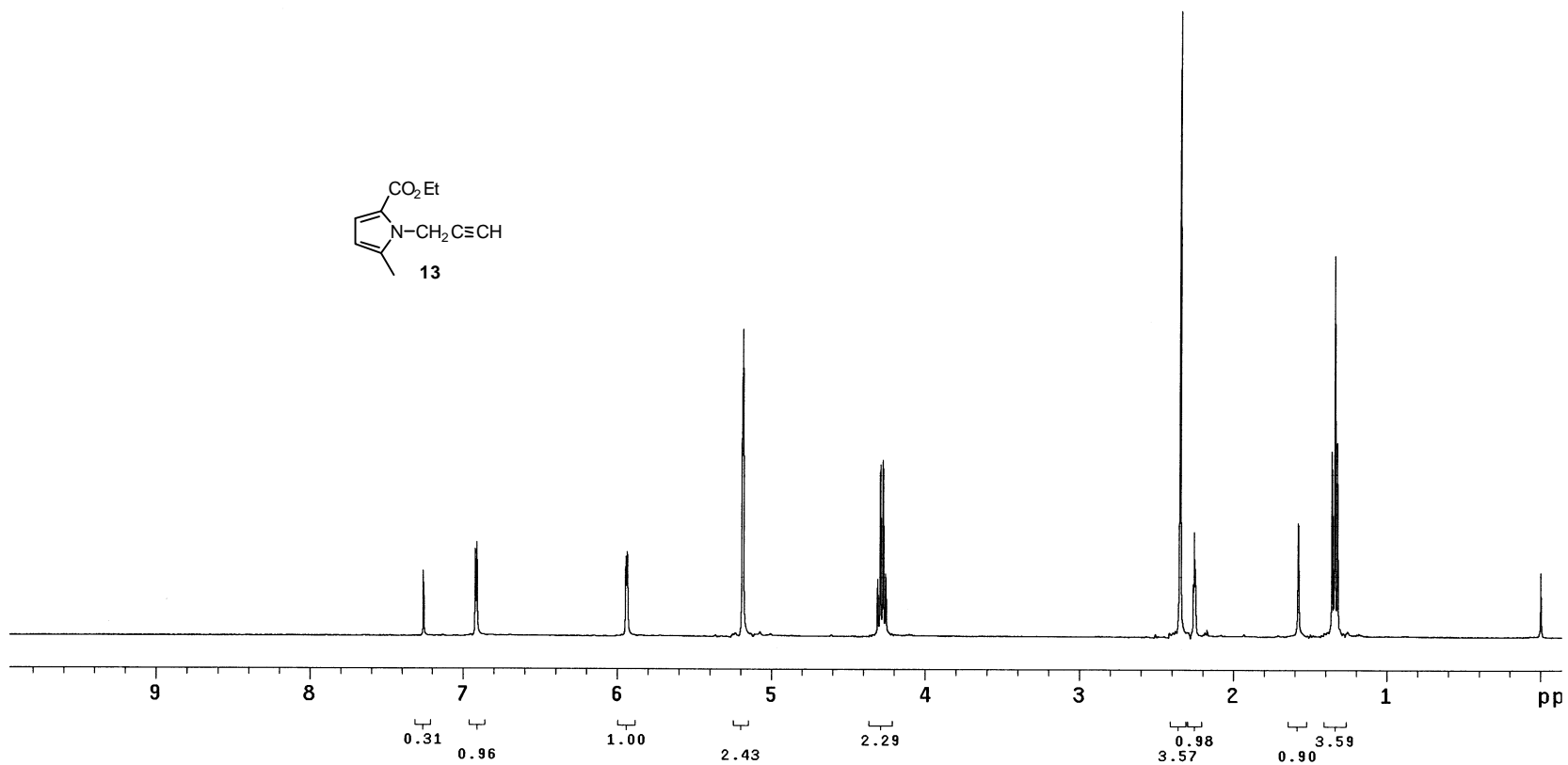
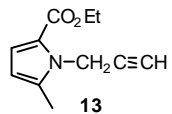
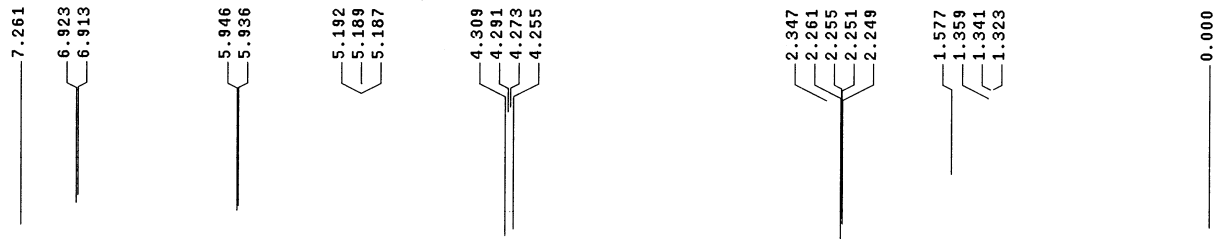


JYM-699

Sample: JYM-699
Sample ID: s_45_JYM-699_koo-4_20130702_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-699_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #45, Operator: walkup2
File: JYM-699_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340103 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



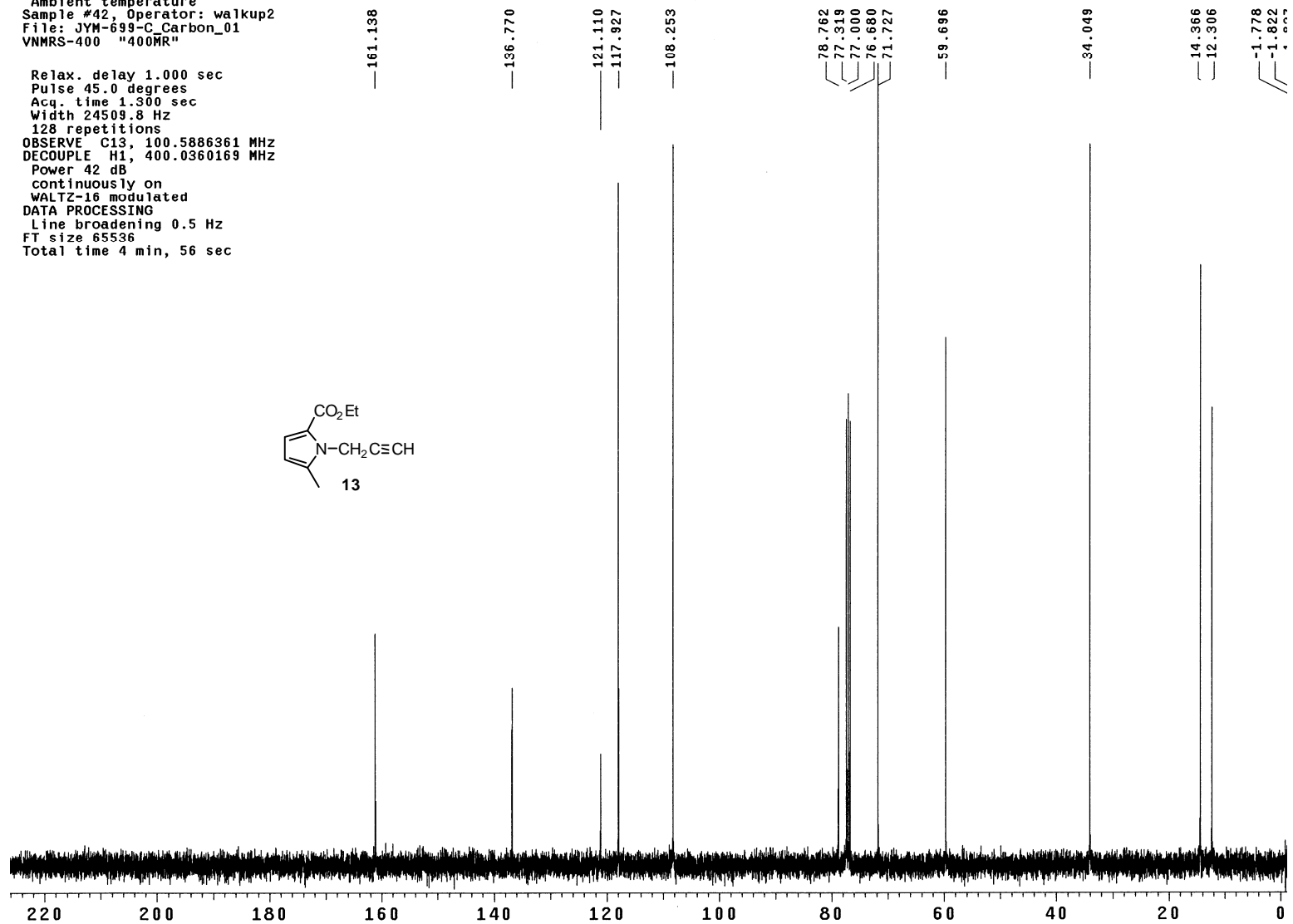
JYM-699-C

Sample: JYM-699-C
Sample ID: s_42_JYM-699-C_koo-4_20130702_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-699-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #42, Operator: walkup2
File: JYM-699-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886361 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec



JYM-466

Sample: JYM-466
Sample ID: s_42_JYM-466_koo-4_20130128_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-466_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13

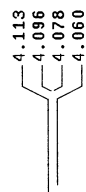
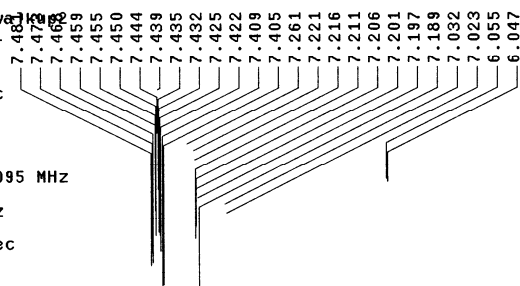
Ambient temperature

Sample #42, Operator: wa

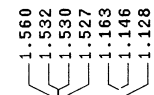
File: JYM-466_Proton_01

VNMRS-400 "400MR"

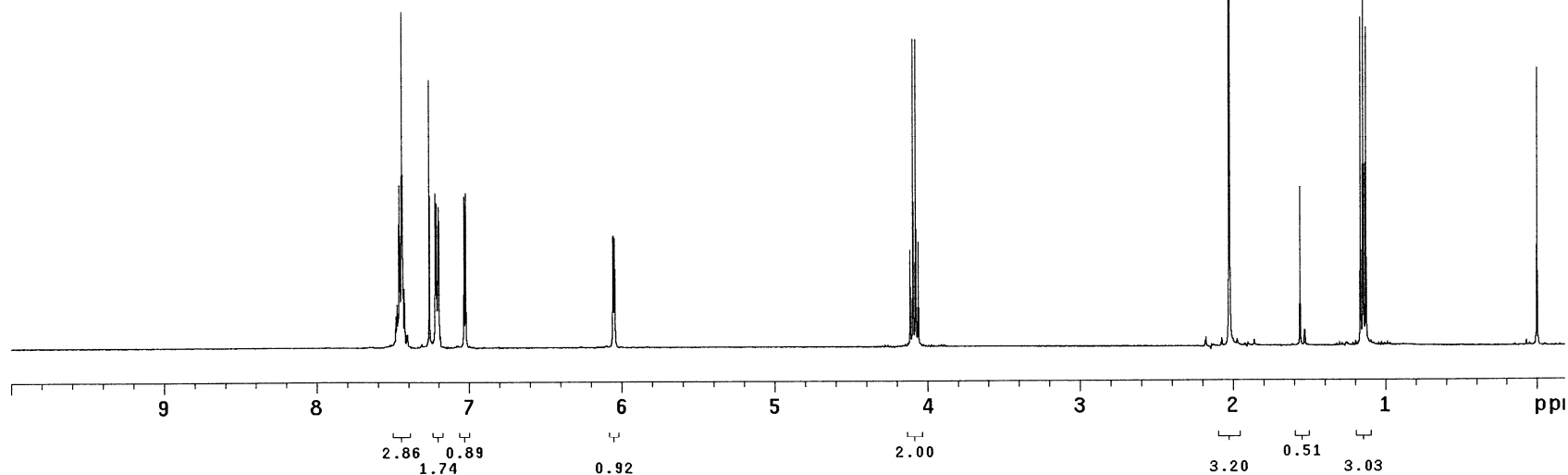
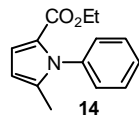
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340095 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



2.023



-0.000



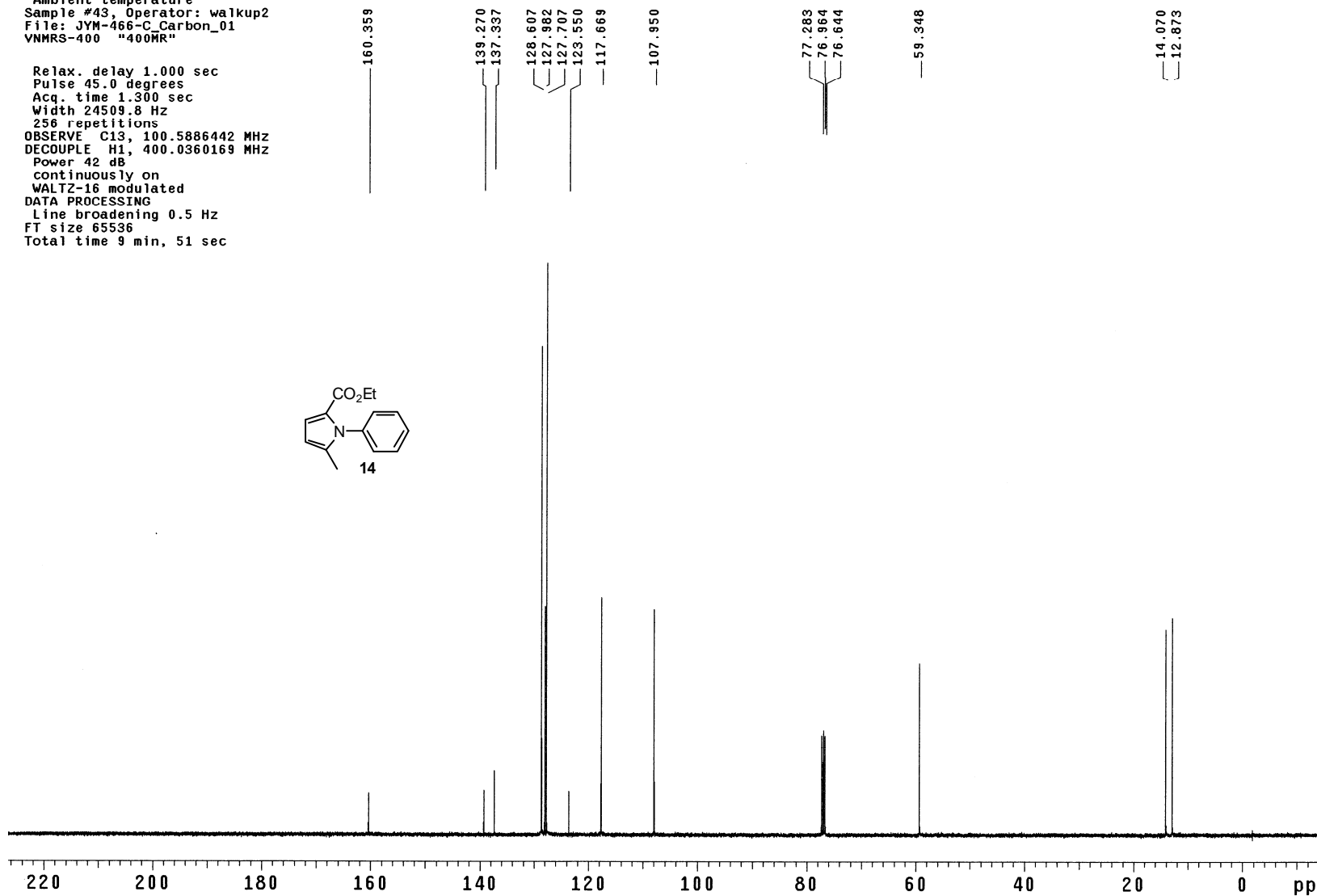
JYM-466-C

Sample: JYM-466-C
Sample ID: s_43_JYM-466-C_koo-4_20130829_01
File: /home/walkup2/vnmrSYS/data/koo-4/JYM-466-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #43, Operator: walkup2
File: JYM-466-C_Carbon_01
VNMR-400 "400HR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
256 repetitions
OBSERVE C13, 100.5886442 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 9 min, 51 sec

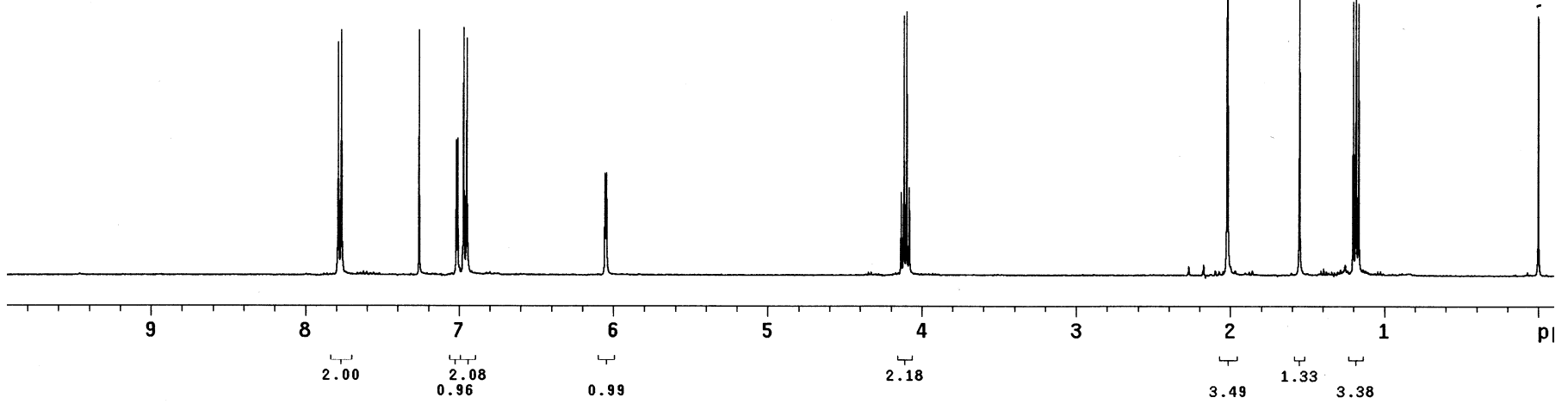
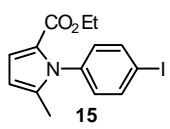
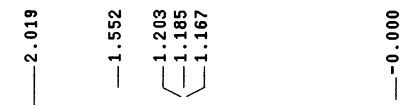
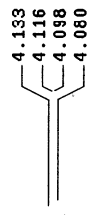
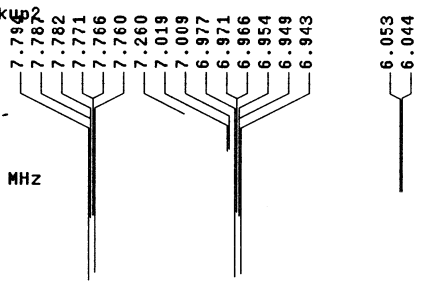


Sample: MD-J-15
 Sample ID: s_47_MD-J-15_koo-4_20140527_01
 File: /home/walkup2/vnmr/sys/data/koo-4/MD-J-15_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
 Ambient temperature
 Sample #47, Operator: walkup
 File: MD-J-15_Proton_01
 VNMR5-400 "400MR"

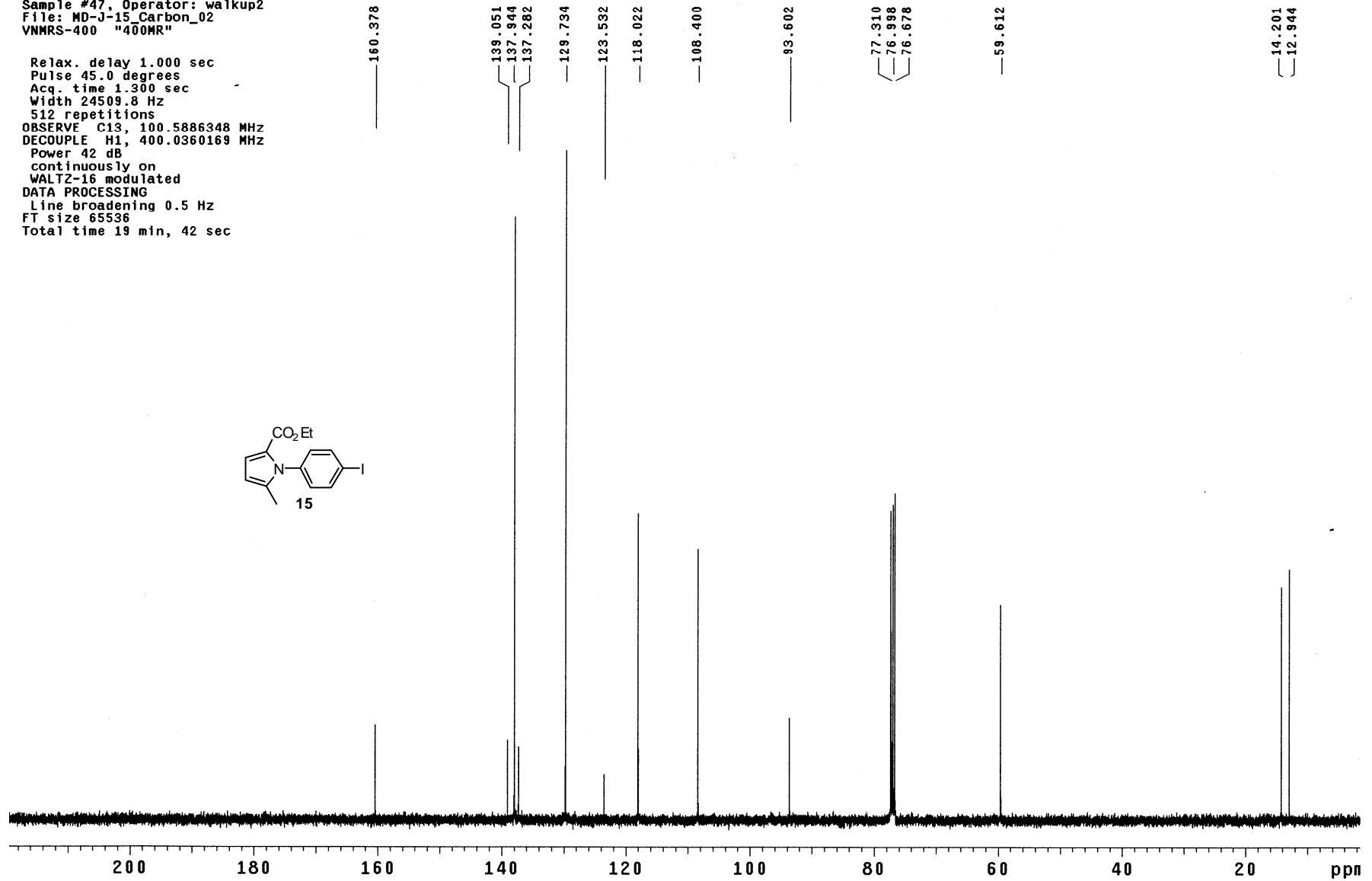
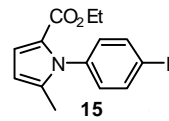
Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 2.049 sec
 Width 6830.6 Hz
 8 repetitions
 OBSERVE H1, 400.0340098 MHz
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 65536
 Total time 0 min, 31 sec



Sample: MD-J-15
Sample ID: s_47_MD-J-15_koo-4_20140603_01
File: /home/walkup2/vnmr/sys/data/koo-4/MD-J-15_Carbon_02.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #47, Operator: walkup2
File: MD-J-15_Carbon_02
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886348 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec



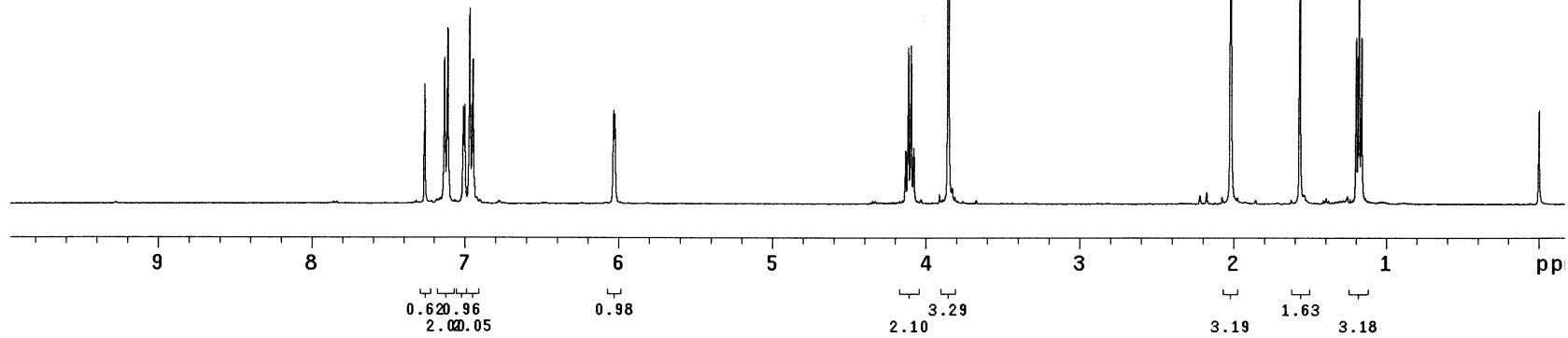
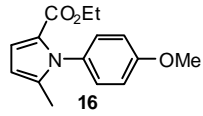
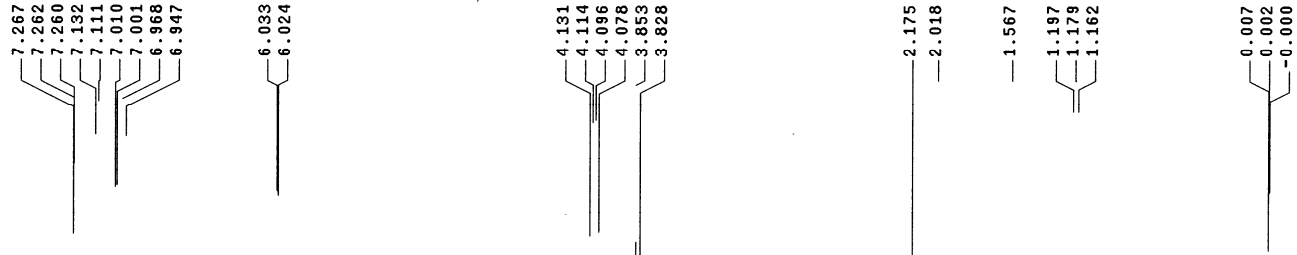
JYM-694

Sample: JYM-694
Sample ID: s_43_JYM-694_koo-4_20130702_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-694_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #43, Operator: walkup2
File: JYM-694_Proton_01
VNMR5-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340097 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



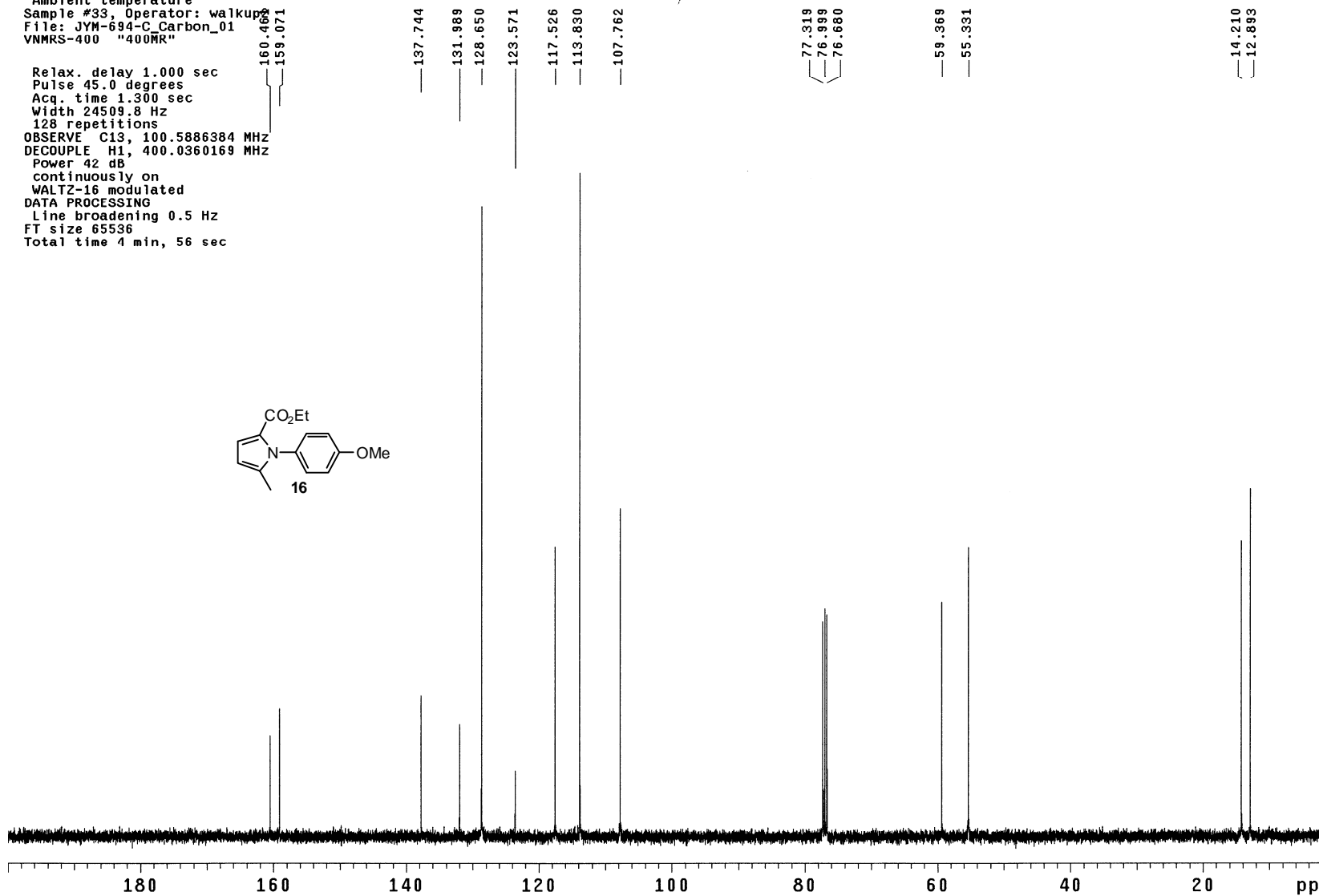
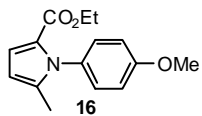
JYM-694-C

Sample: JYM-694-C
Sample ID: s_33_JYM-694-C_koo-4_20130703_01
File: /home/walkup2/vnmrSYS/data/koo-4/JYM-694-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdcl3
Ambient temperature
Sample #33, Operator: walkup
File: JYM-694-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 Repetitions
OBSERVE C13, 100.5886384 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec



JYM-726

Sample: JYM-726
Sample ID: s_47_JYM-726_koo-4_20130715_01
File: /home/walkup2/vnmr/sys/data/koo-4/JYM-726_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13

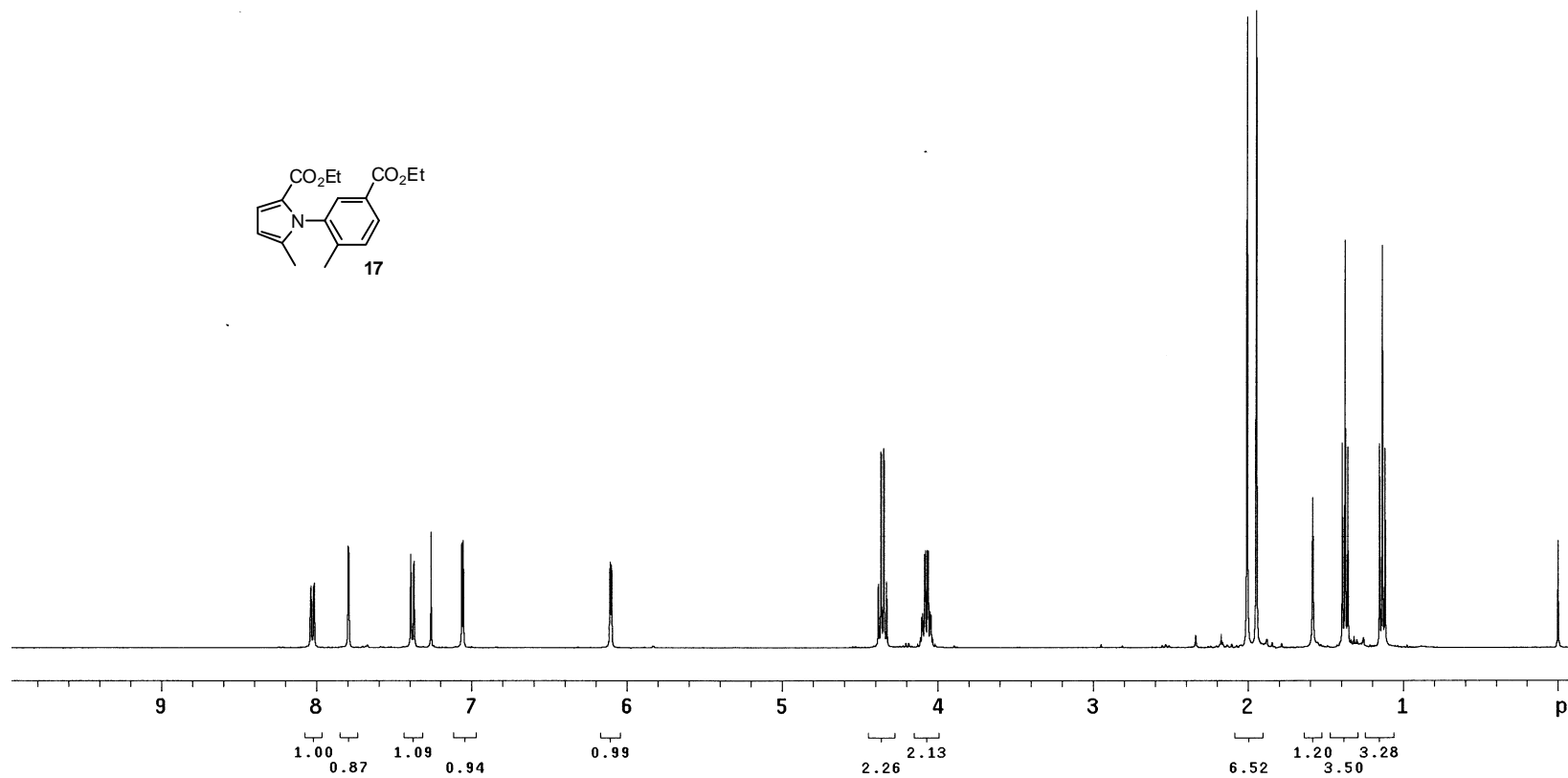
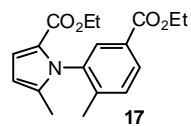
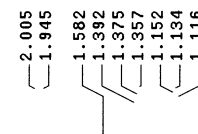
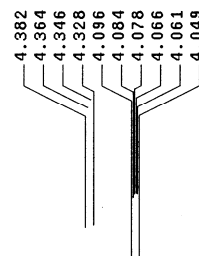
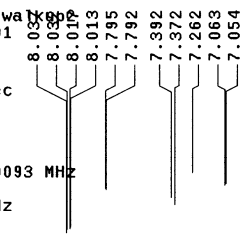
Ambient temperature

Sample #47, Operator: wa

File: JYM-726_Proton_01

VNMR5-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
3 repetitions
OBSERVE H1, 400.0340093 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-726-C

Sample: JYM-726-C
Sample ID: s_44_JYM-726-C_koo-4_20130716_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-726-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #44, Operator: walkup2
File: JYM-726-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886371 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

165.836
160.251

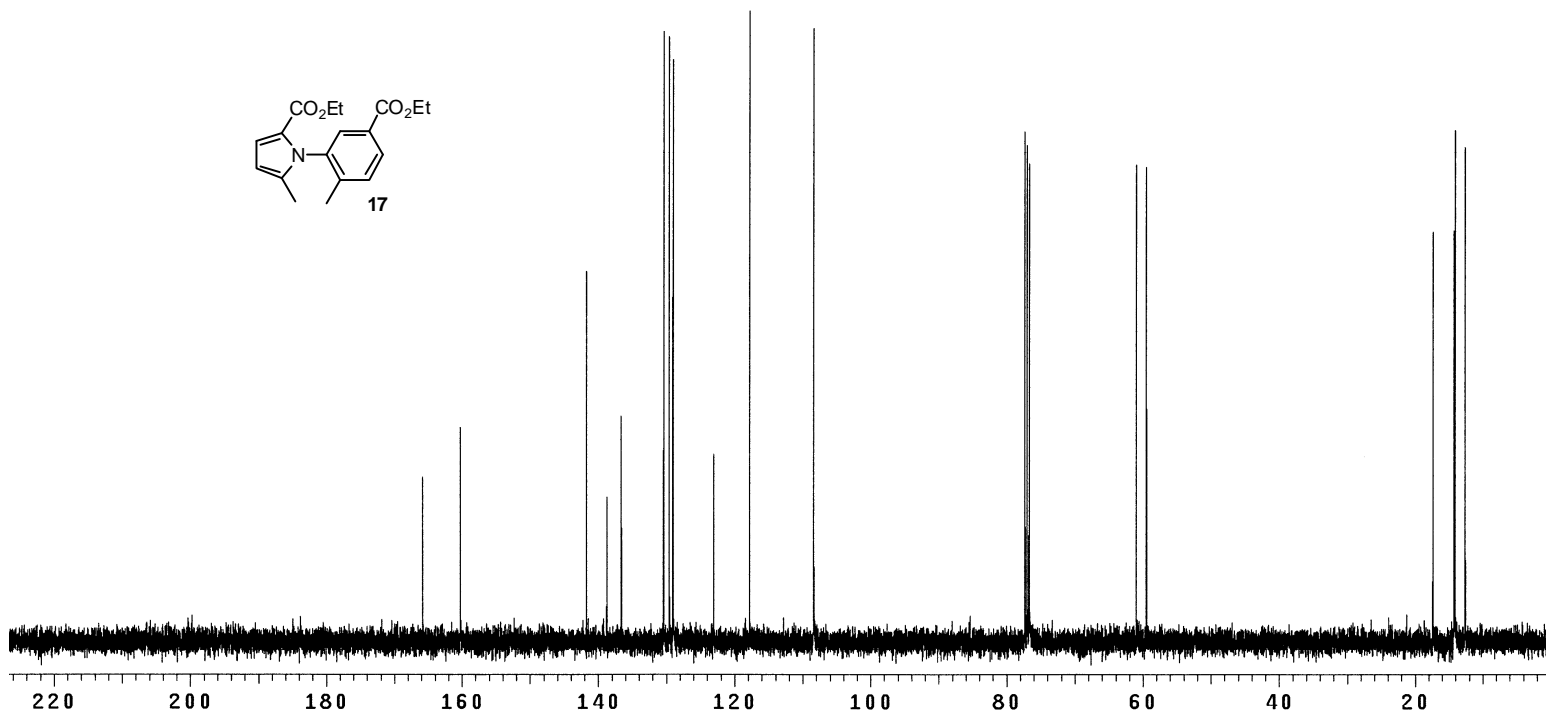
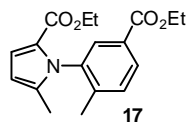
141.743
138.746
136.597
130.396
129.555
128.065
128.390
123.071
117.792

108.378

77.310
76.990
76.678

60.988
59.478

17.383
14.245
14.104
12.579

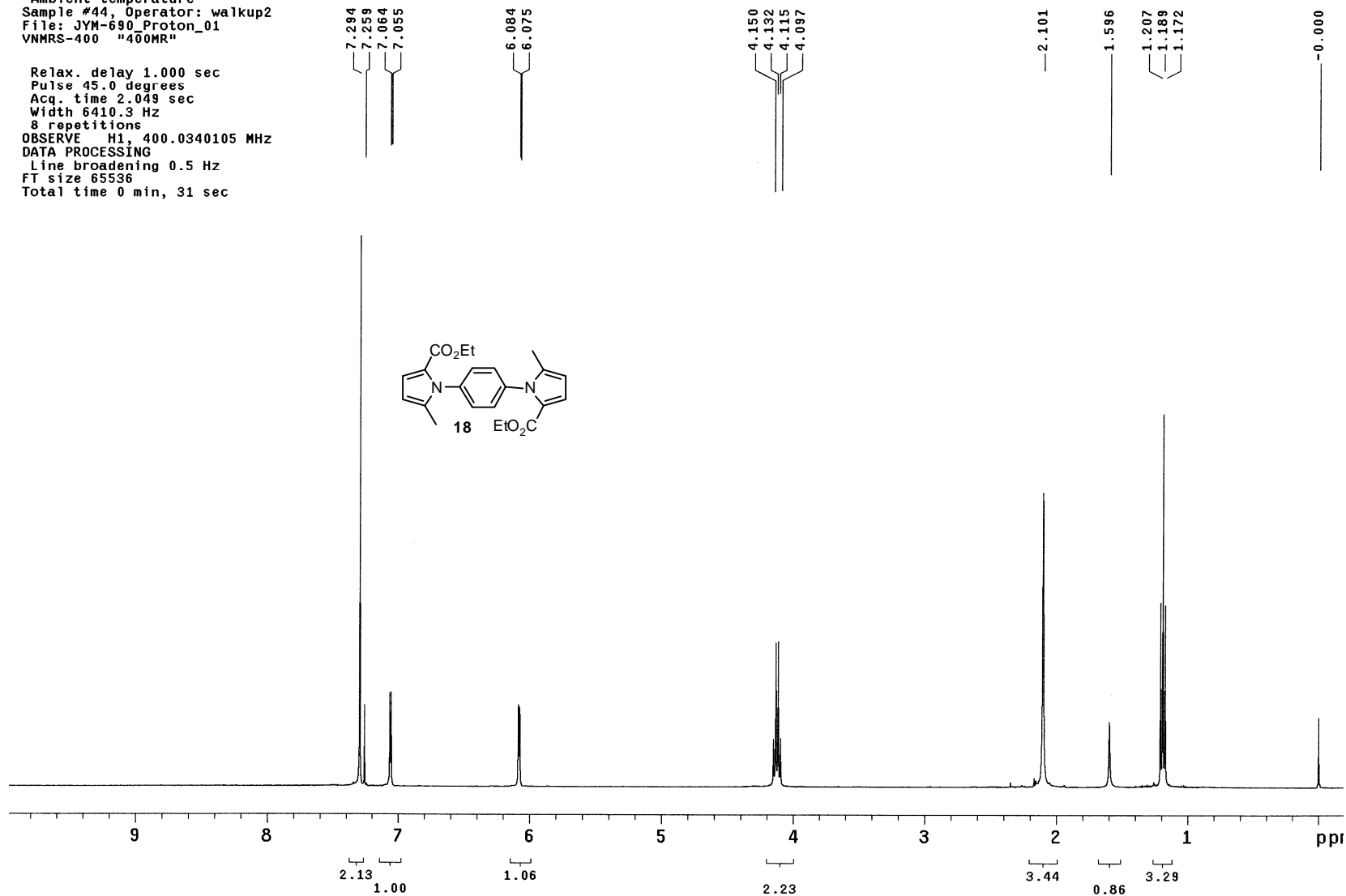


JYM-690

Sample: JYM-690
Sample ID: s_44_JYM-690_koo-4_20130628_01
File: /home/walkup2/vnmr/sys/data/koo-4/JYM-690_Proton_01.fid

Pulse Sequence: s2pul
Solvent: cdc13
Ambient temperature
Sample #44, Operator: walkup2
File: JYM-690_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340105 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-690-C

Sample: JYM-690-C

Sample ID: s_46_JYM-690-C_koo-4_20130628_01

File: /home/walkup2/vnmrsys/data/koo-4/JYM-690-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13

Ambient temperature

Sample #46, Operator: walkup

File: JYM-690-C_Carbon_01

VNMR5-400 "400MR"

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 24509.8 Hz

218 repetitions

OBSERVE C13, 100.5886361 MHz

DECOUPLE H1, 400.0360169 MHz

Power 42 dB

continuously on

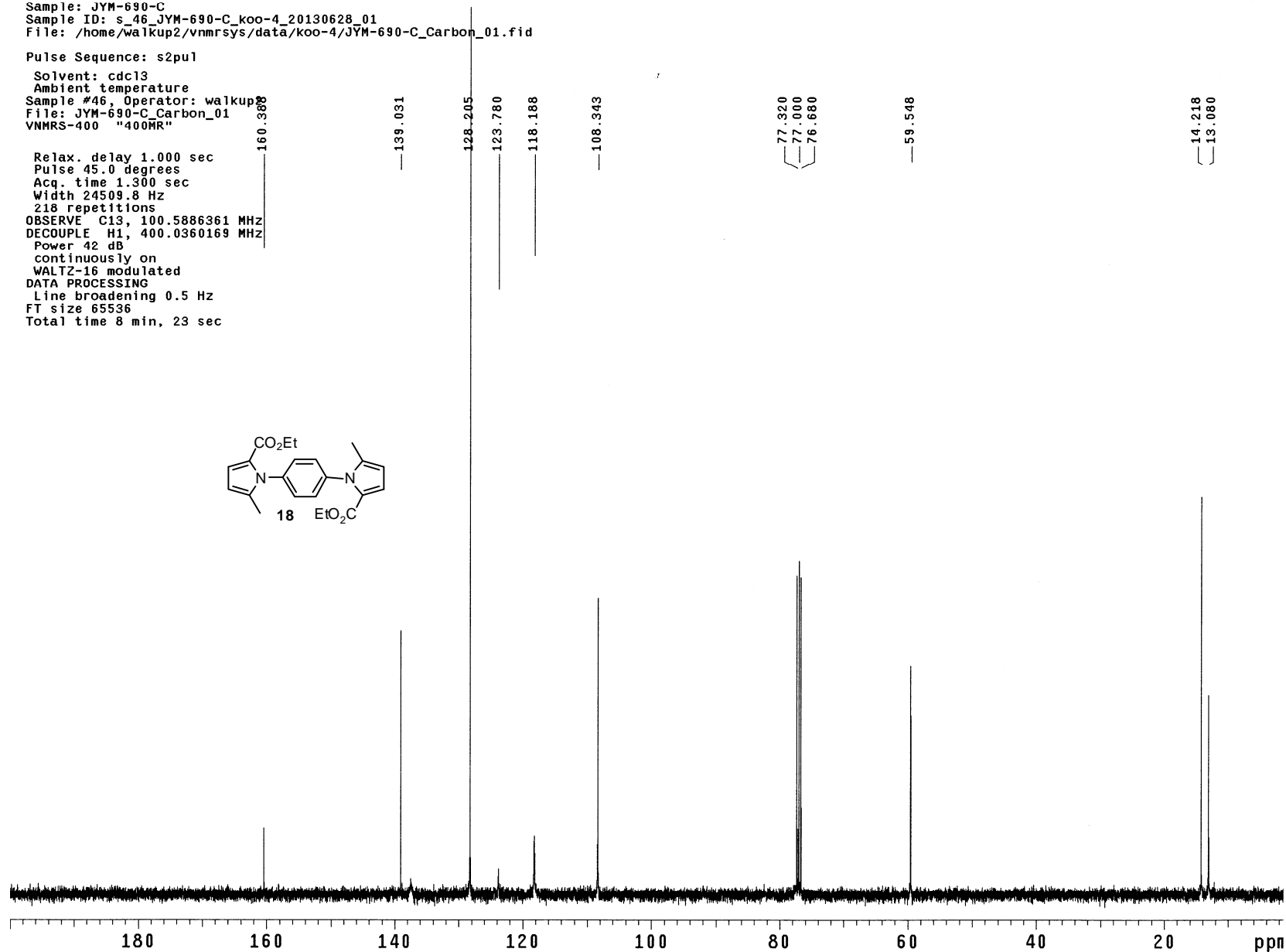
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 8 min, 23 sec



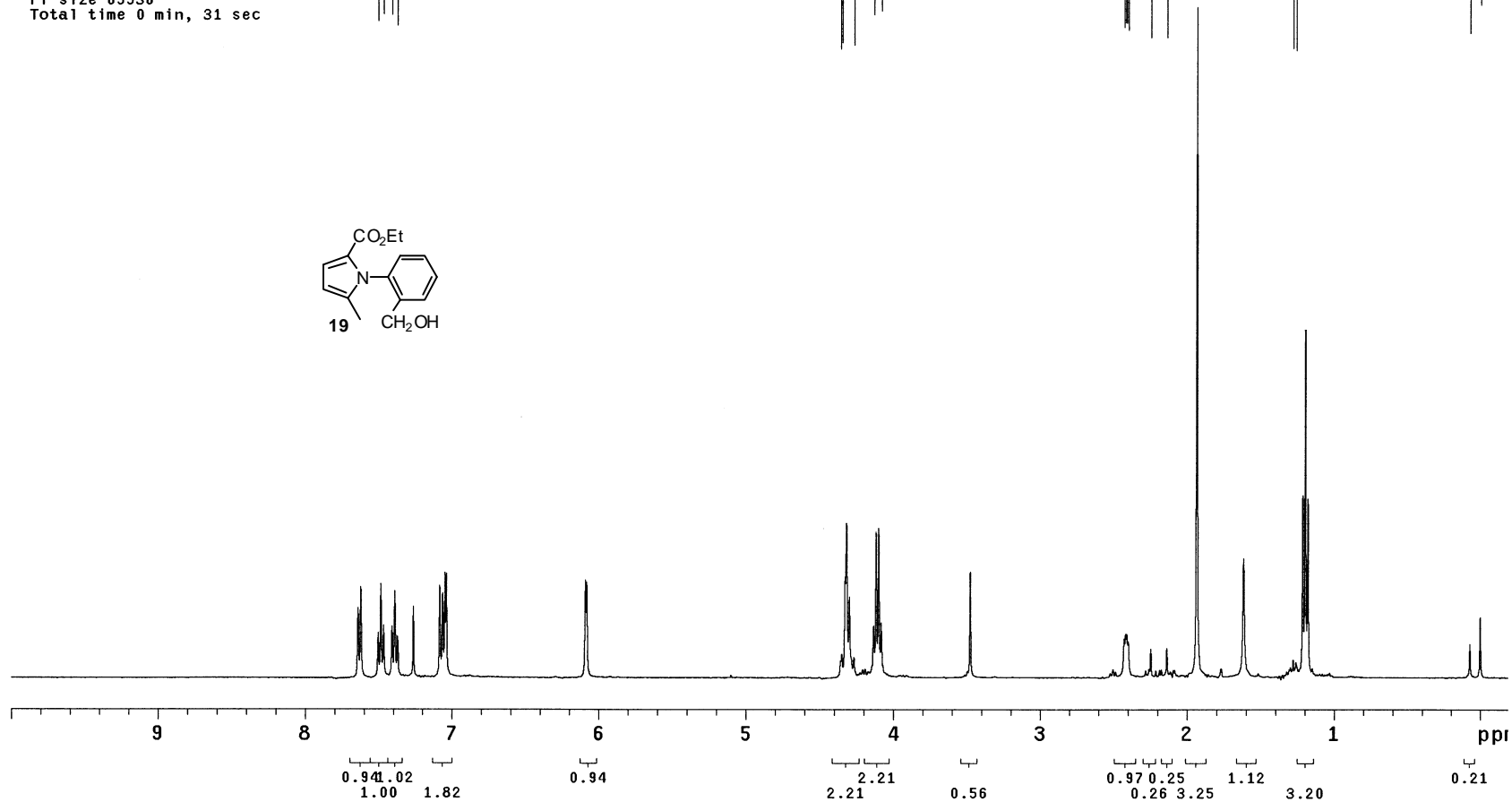
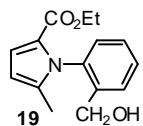
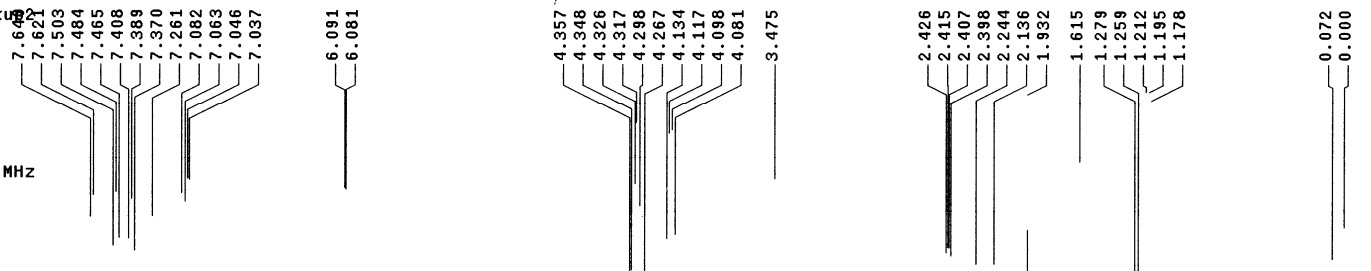
JYM-695-1

Sample: JYM-695-1
Sample ID: s_44_JYM-695-1_koo-4_20130702_01
File: /home/walkup2/vnmrsvs/data/koo-4/JYM-695-1_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #44, Operator: walkup
File: JYM-695-1_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340093 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



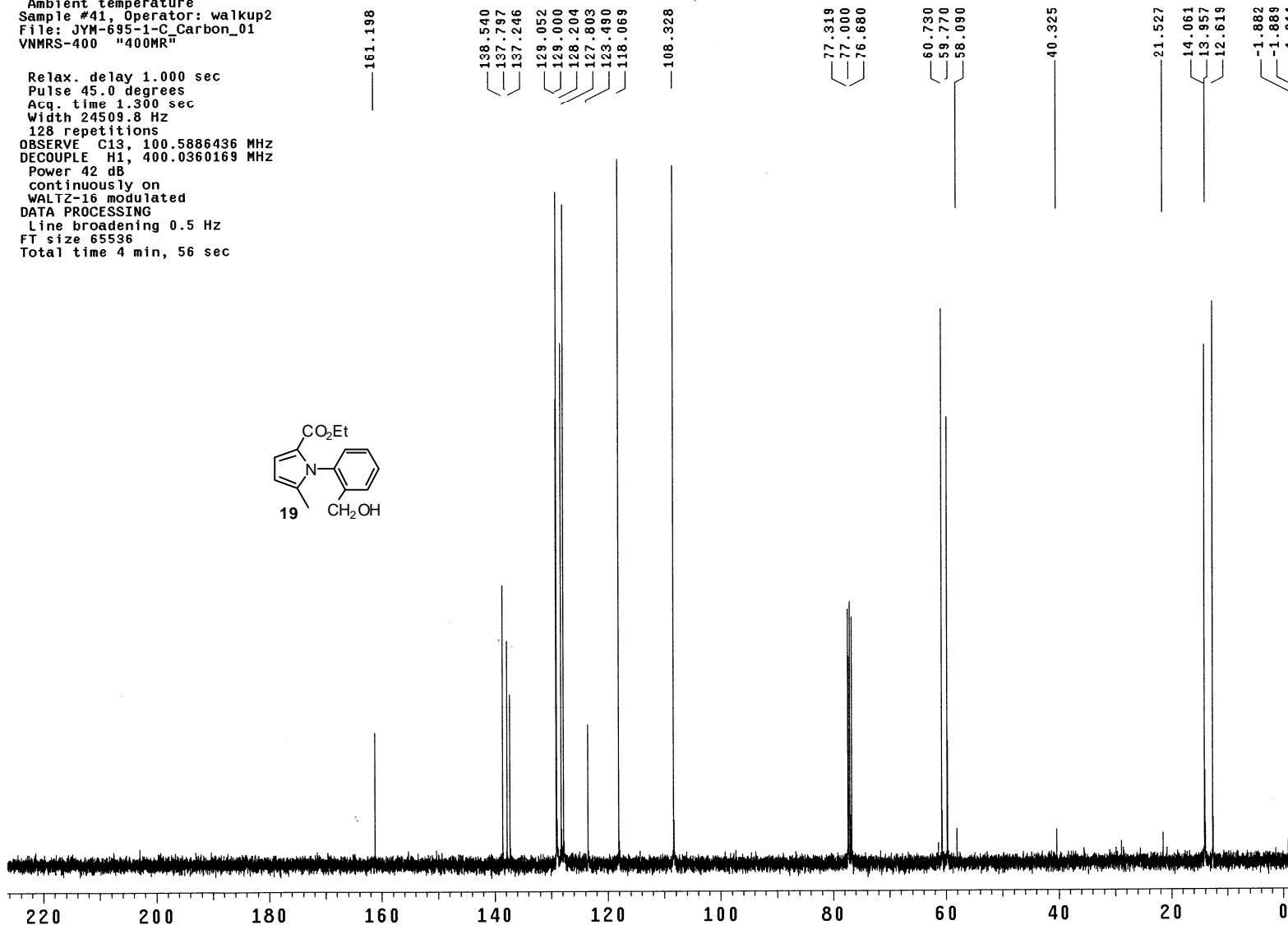
JYM-695-1-C

Sample: JYM-695-1-C
Sample ID: s_41_JYM-695-1-C_koo-4_20130702_01
File: /home/walkup2/vnmrSYS/data/koo-4/JYM-695-1-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdcl3
Ambient temperature
Sample #41, Operator: walkup2
File: JYM-695-1-C_Carbon_01
VNMR5-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886436 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec



JYM-703

Sample: JYM-703

Sample ID: s_40_JYM-703_koo-4_20130704_01

File: /home/walkup2/vnmrsys/data/koo-4/JYM-703_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13

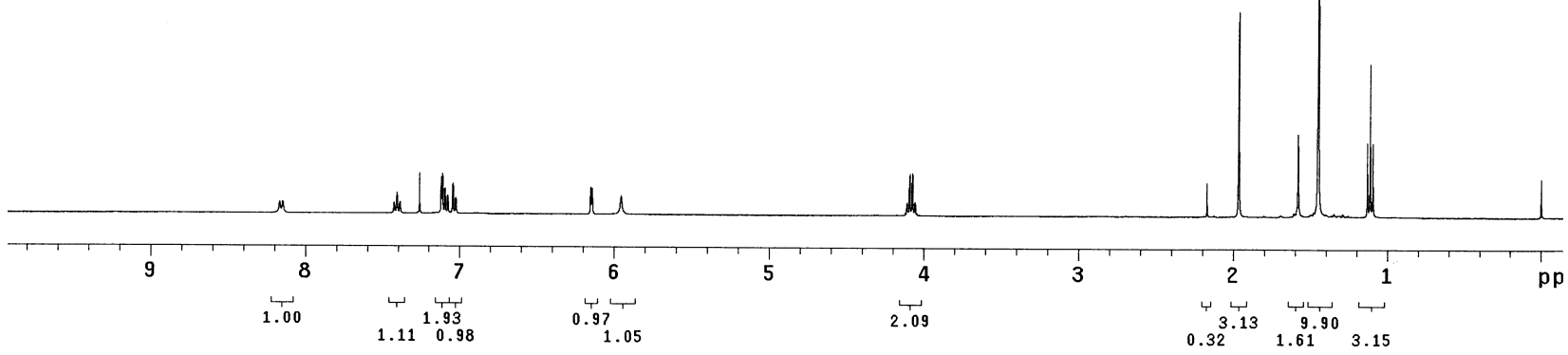
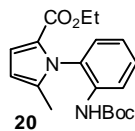
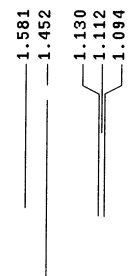
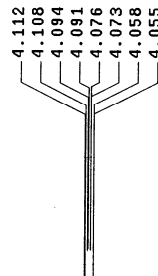
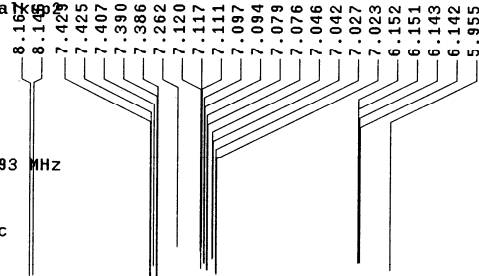
Ambient temperature

Sample #40, Operator: wa

File: JYM-703_Proton_01

VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340093 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-703-C

Sample: JYM-703-C

Sample ID: s_46_JYM-703-C_Koo-4_20130708_01

File: /home/walkup2/vnmr/sys/data/Koo-4/JYM-703-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13

Ambient temperature

Sample #46, Operator: walkup2

File: JYM-703-C_Carbon_01

VNMR-400 "400MK"

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 24509.8 Hz

128 repetitions

OBSERVE C13, 100.5886358 MHz

DECOUPLE H1, 400.0360169 MHz

Power 42 dB

continuously on

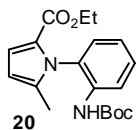
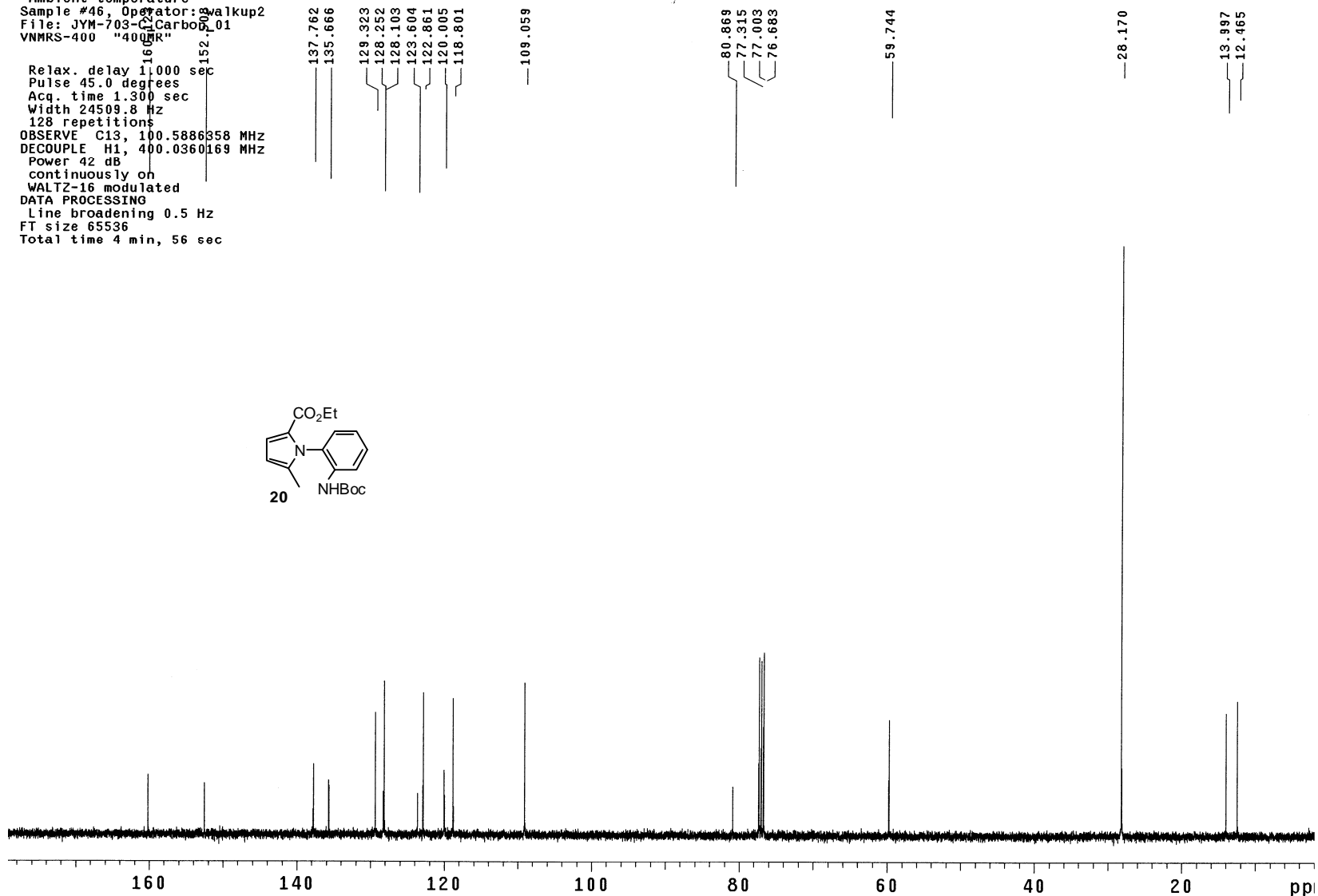
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 4 min, 56 sec



JYM-503

Sample: JYM-503
Sample ID: s_42_JYM-503_koo-4_20130227_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-503_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13

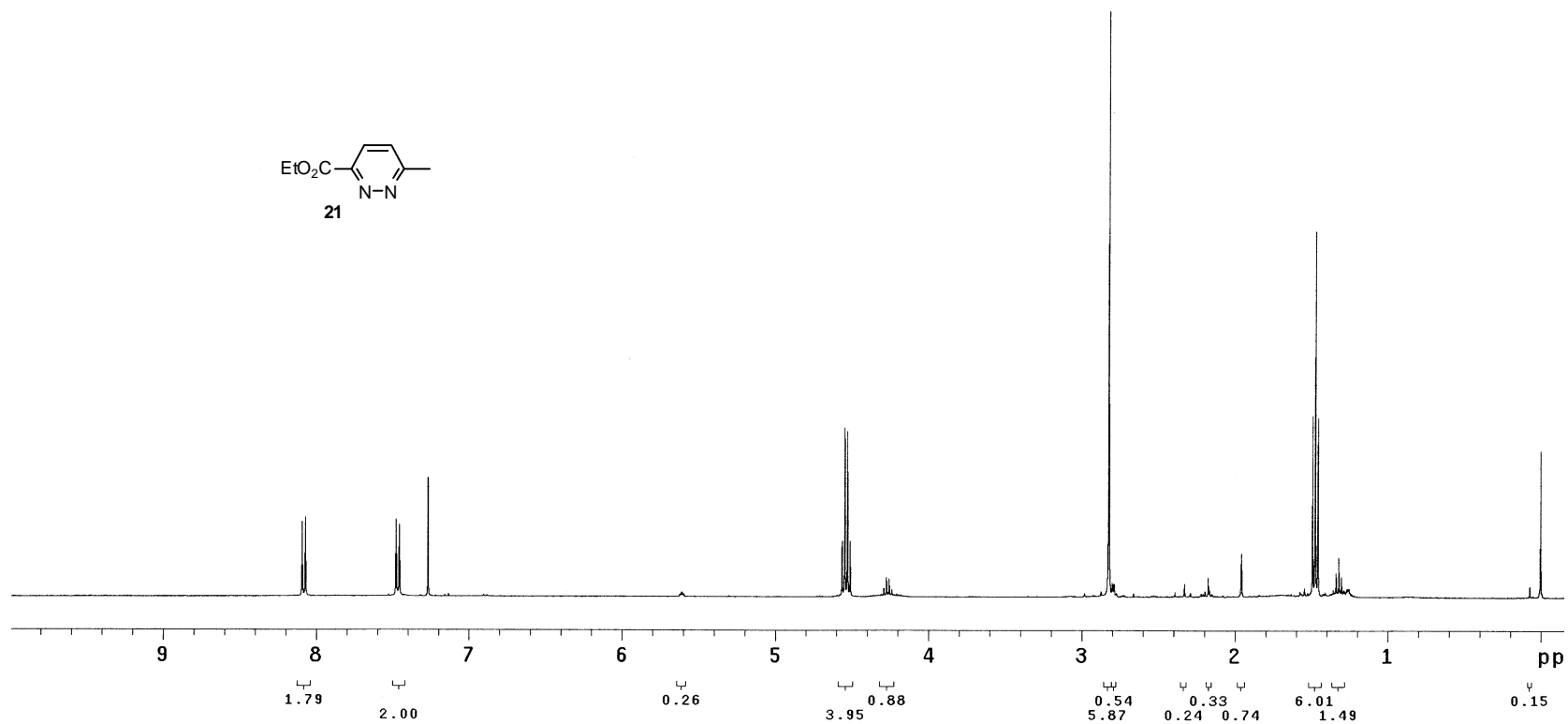
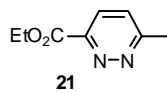
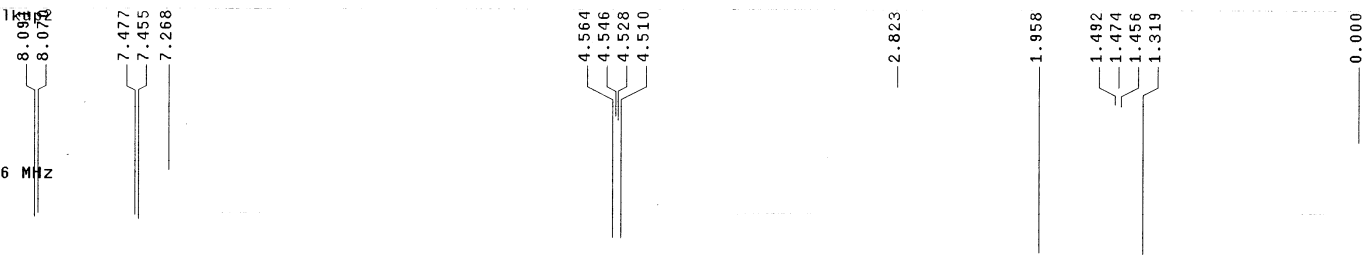
Ambient temperature

Sample #42, Operator: walkup

File: JYM-503_Proton_01

VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6830.6 Hz
8 repetitions
OBSERVE H1, 400.0340066 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



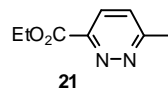
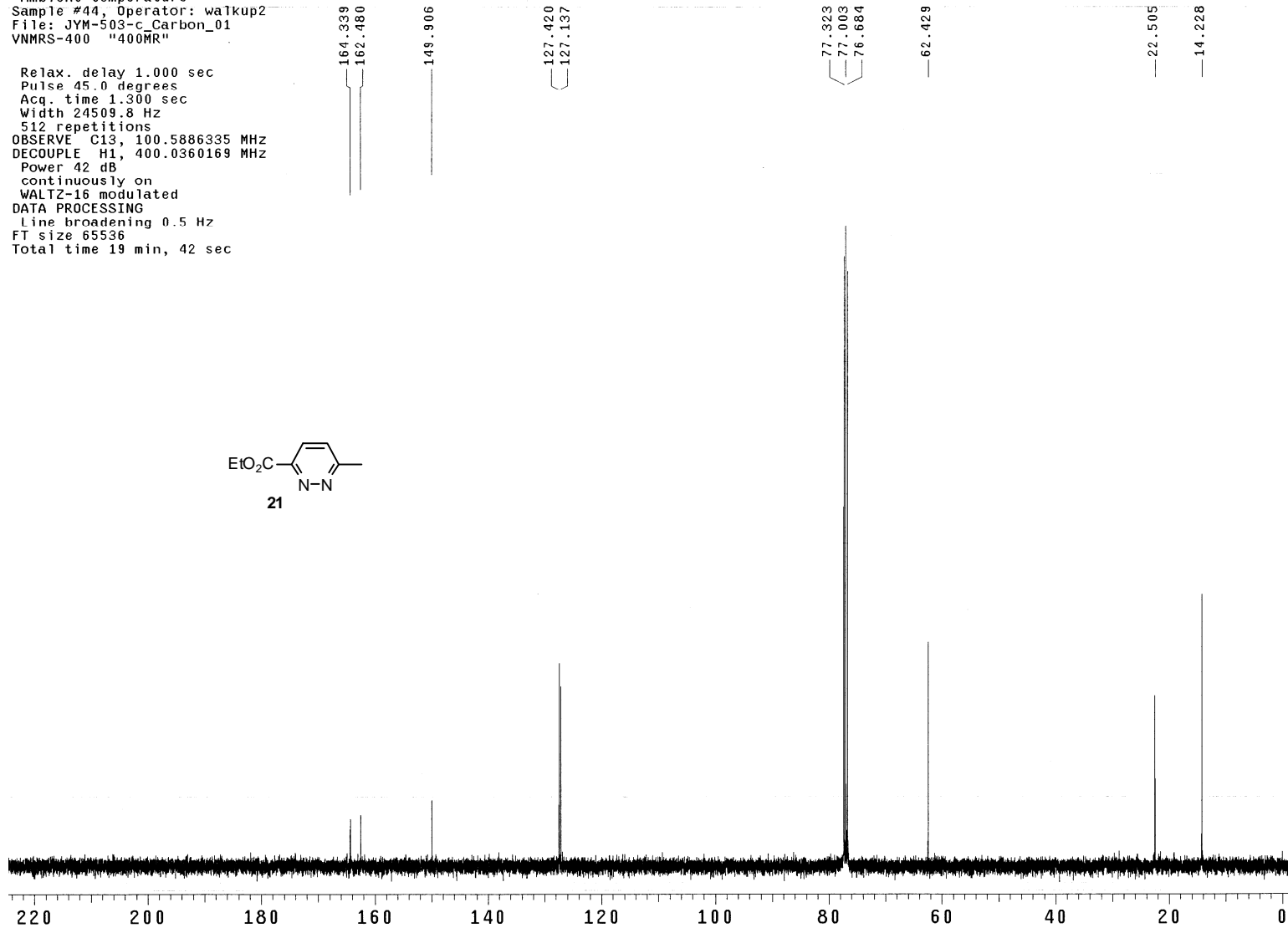
JYM-503-c

Sample: JYM-503-c
Sample ID: s_44_JYM-503-c_koo-4_20130227_01
File: /home/walkup2/vnmr/sys/data/koo-4/JYM-503-c_Carbon_01.fid

Pulse Sequence: s2pul1

Solvent: cdc13
Ambient temperature
Sample #44, Operator: walkup2
File: JYM-503-c_Carbon_01
VNMR5-400 "400MR"

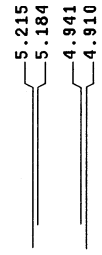
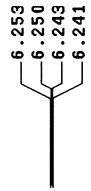
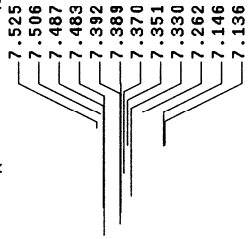
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886335 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec



Sample: MD-J-22
Sample ID: s_45_MD-J-22_koo-4_20140604_01
File: /home/walkup2/vnmr/sys/data/koo-4/MD-J-22_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #45, Operator: walkup2
File: MD-J-22_Proton_01
VNMR-400 "400MR"

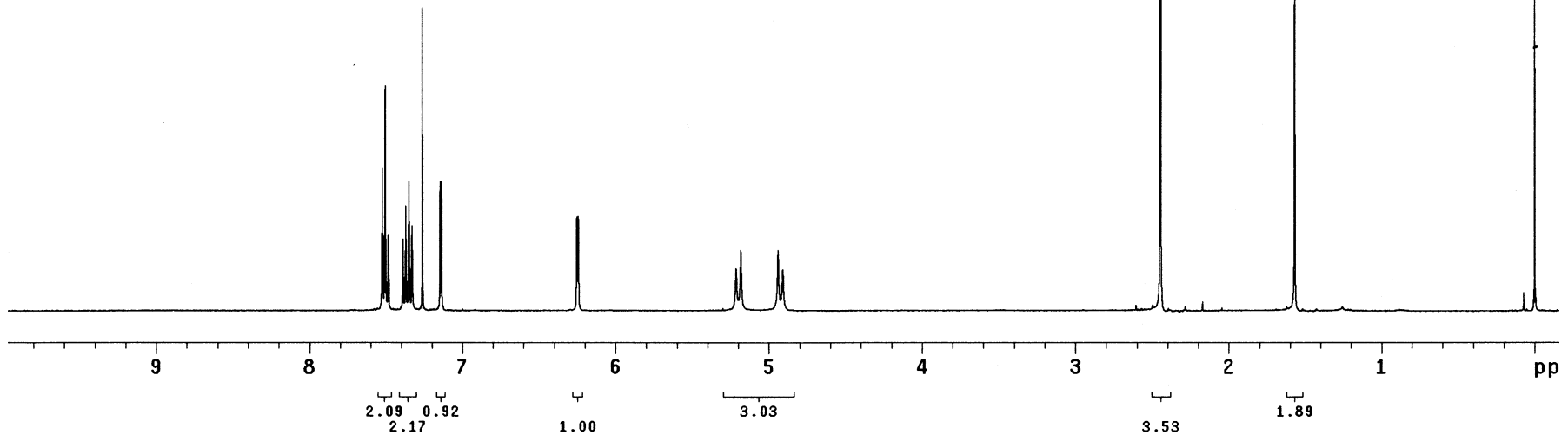
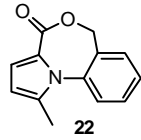
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6830.6 Hz
8 repetitions
OBSERVE H1 400.0340091 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



2.446

1.571

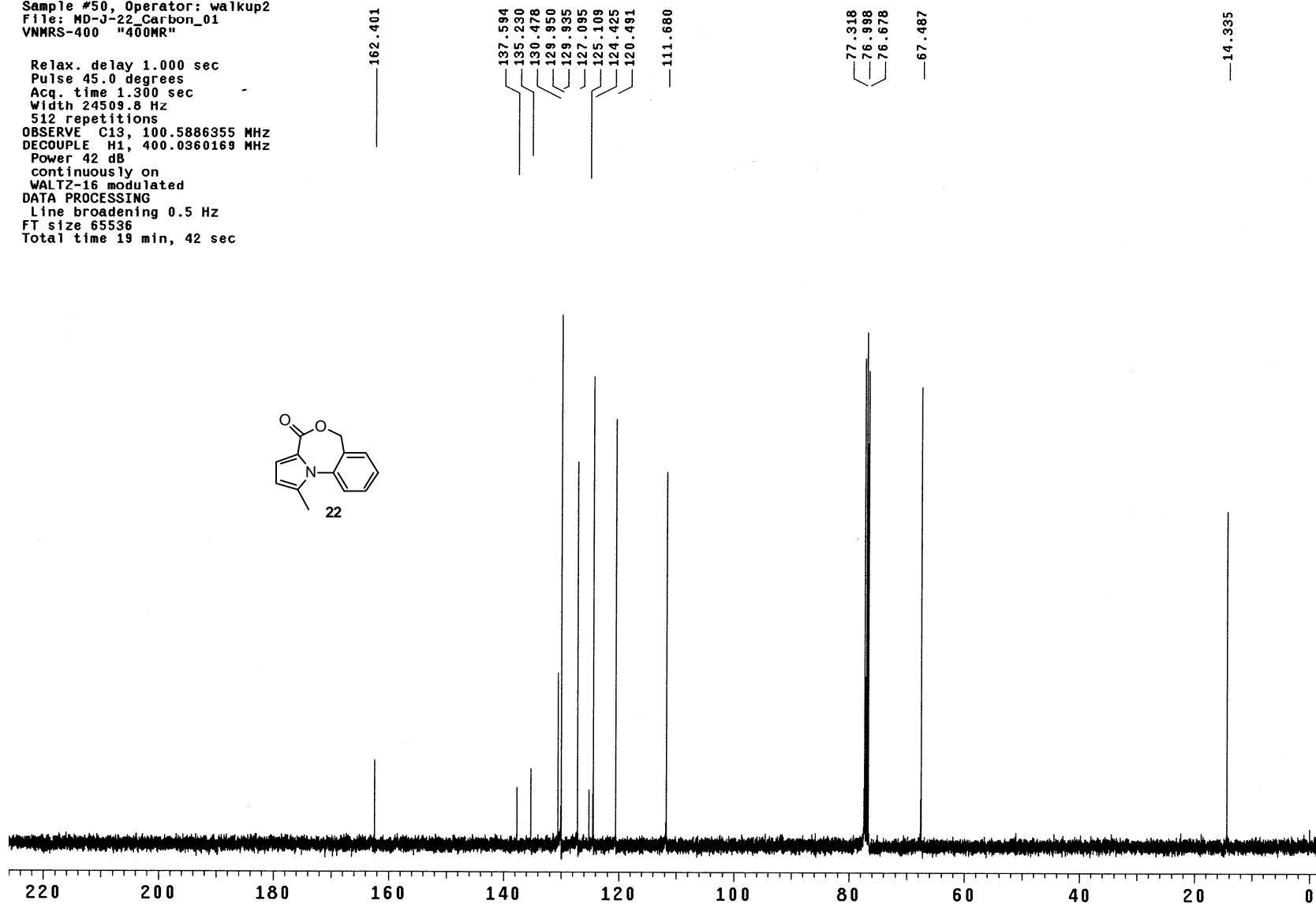
0.070
0.000



Sample: MD-J-22
Sample ID: s_50_MD-J-22_koo-4_20140604_01
File: /home/walkup2/vnmr/sys/data/koo-4/MD-J-22_Carbon_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #50, Operator: walkup2
File: MD-J-22_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886355 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec



JYM-717

Sample: JYM-717
Sample ID: s_43_JYM-717_koo-4_20130709_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-717_Proton_01.fid

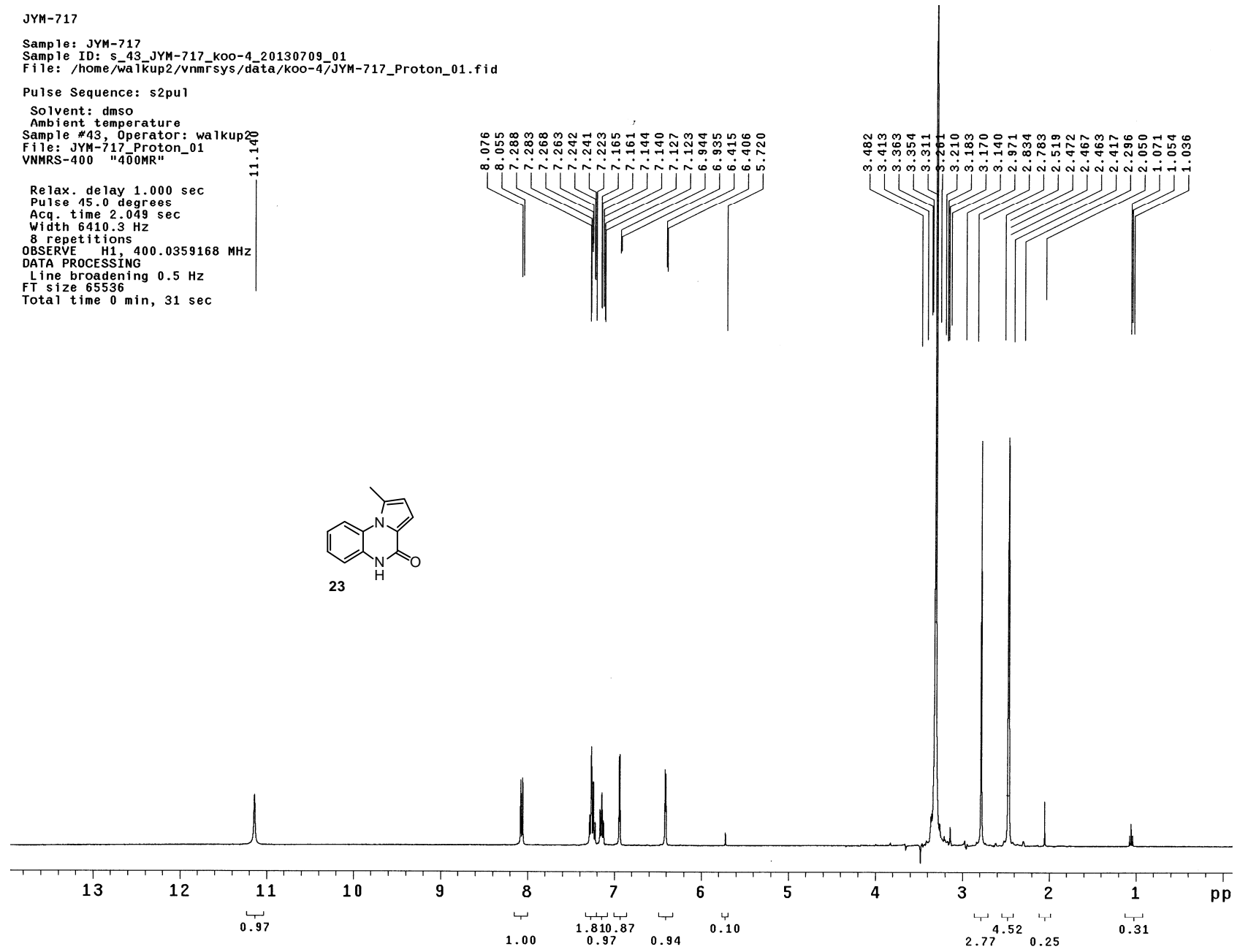
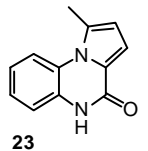
Pulse Sequence: s2pu1
Solvent: dmsd
Ambient temperature
Sample #43, Operator: walkup
File: JYM-717_Proton_01
VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0359168 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec

11.140

8.076
8.055
7.288
7.283
7.268
7.263
7.242
7.241
7.223
7.165
7.161
7.144
7.140
7.127
7.123
6.944
6.935
6.415
6.406
5.720

3.482
3.413
3.363
3.354
3.311
3.201
3.210
3.183
3.170
3.140
2.971
2.834
2.783
2.519
2.472
2.467
2.463
2.417
2.286
2.050
1.071
1.054
1.036



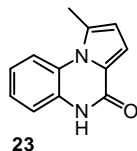
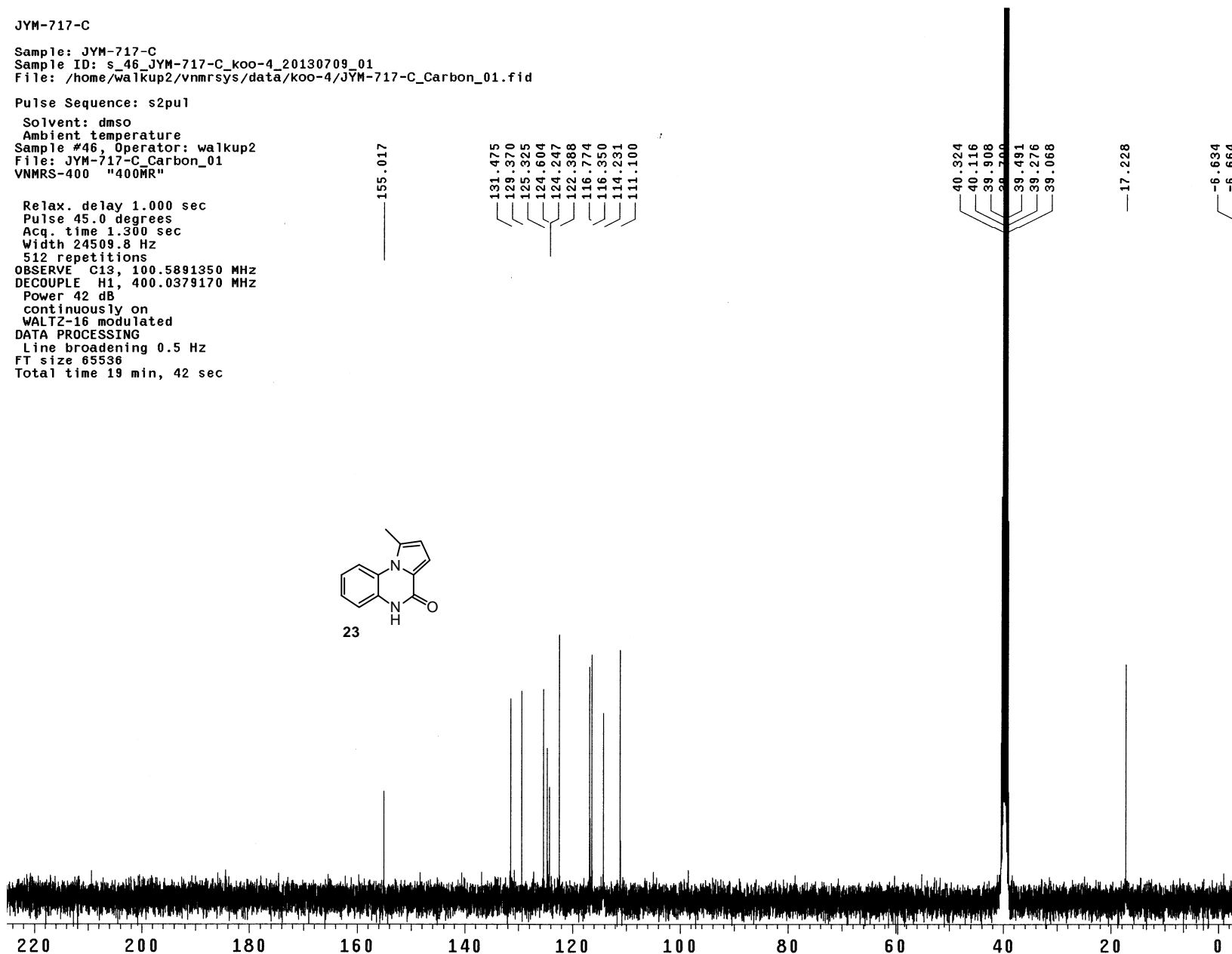
JYM-717-C

Sample: JYM-717-C
Sample ID: s_46_JYM-717-C_koo-4_20130709_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-717-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: dmsd
Ambient temperature
Sample #46, Operator: walkup2
File: JYM-717-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5891350 MHz
DECOUPLE H1, 400.0379170 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec



JYM-674

Sample: JYM-674

Sample ID: s_40_JYM-674_koo-4_20130614_01

File: /home/walkup2/vnmr/sys/data/koo-4/JYM-674_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13

Ambient temperature

Sample #40, Operator

File: JYM-674

VNMRS-400

400MHz

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 2.049 sec

Width 6410.3 Hz

8 repetitions

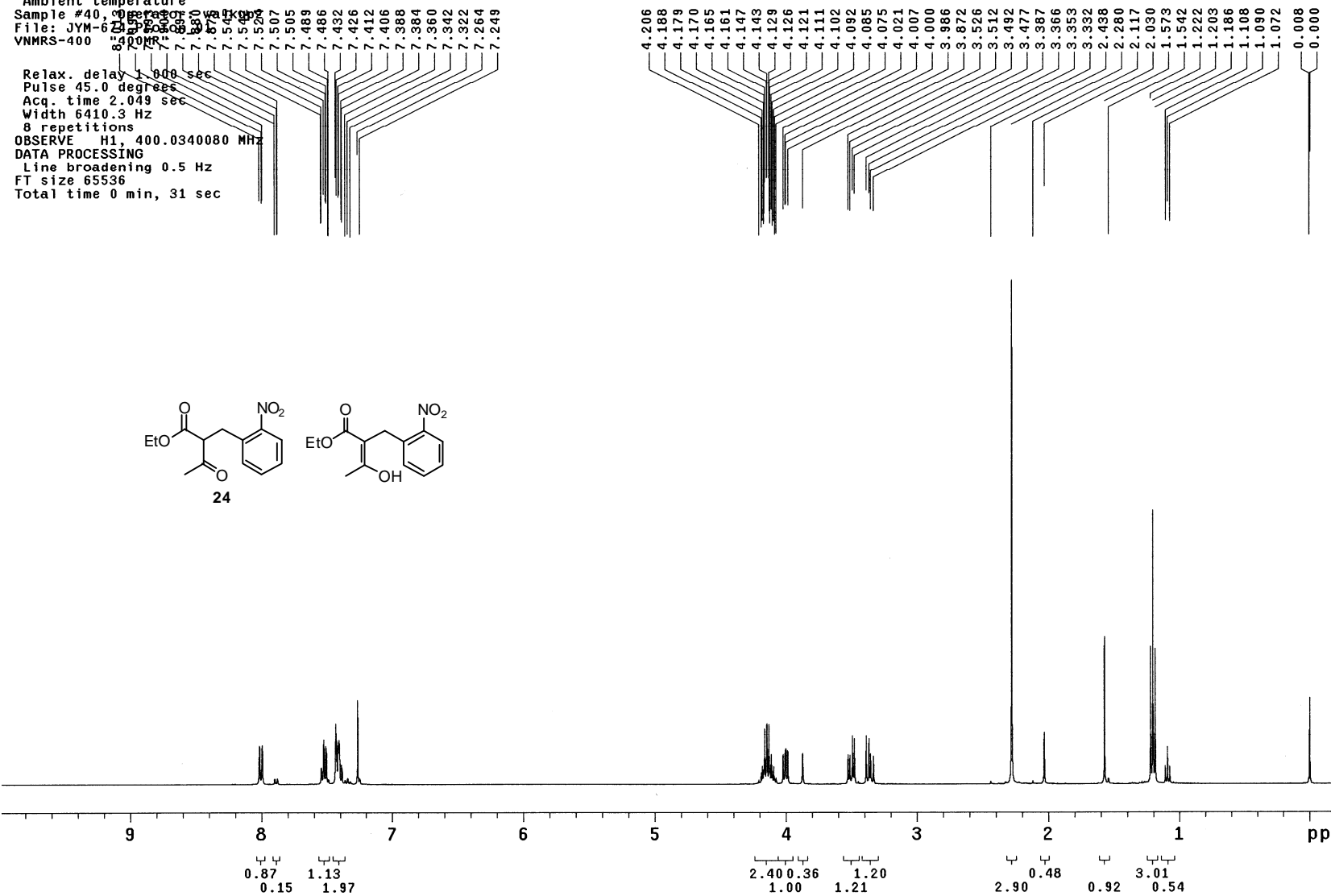
OBSERVE H1, 400.0340080 MHz

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 0 min, 31 sec



JYM-639-C

Sample: JYM-639-C

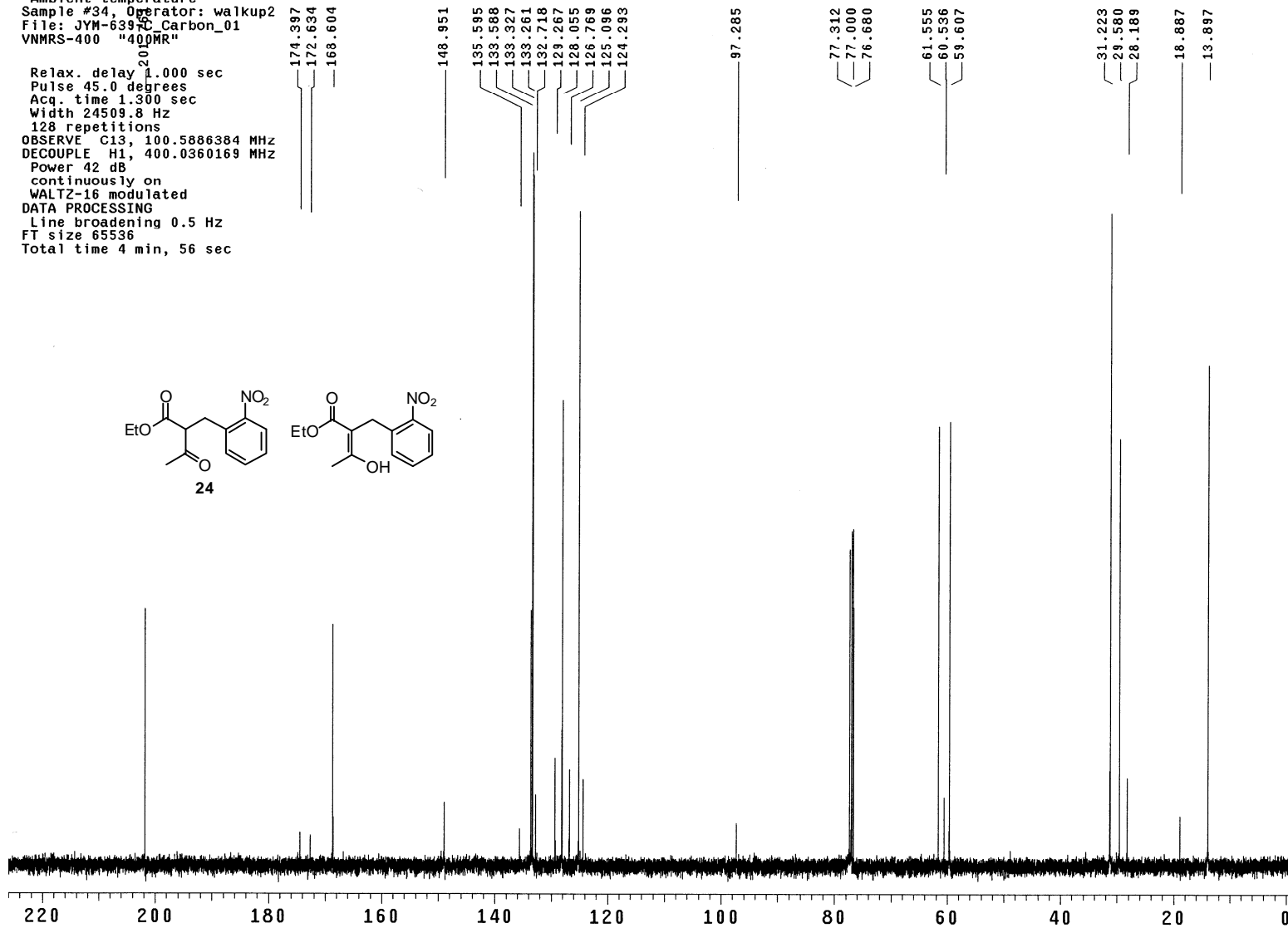
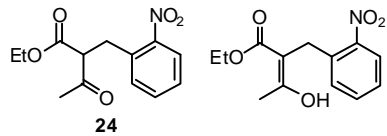
Sample ID: s_34_JYM-639-C_koo-4_20130718_01

File: /home/walkup2/vnmrSYS/data/koo-4/JYM-639-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #34, Operator: walkup2
File: JYM-639-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886384 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

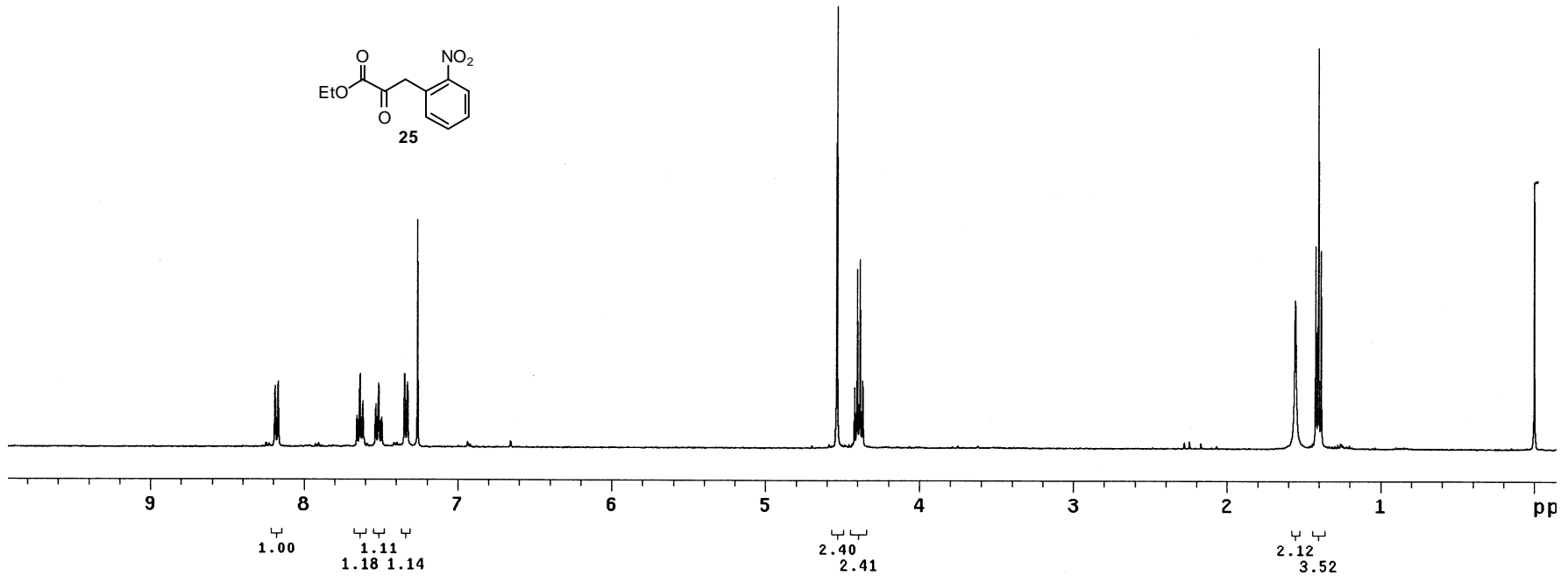
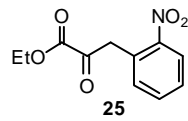
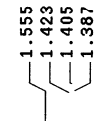
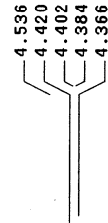
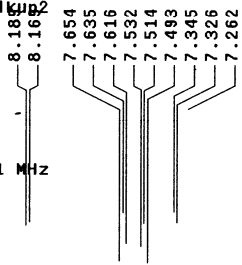


Sample: MD-310
Sample ID: s_42_MD-310_koo-4_20140623_01
File: /home/walkup2/vnmrsys/data/koo-4/MD-310_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #42, Operator: walkup2
File: MD-310_Proton_01
VNMR-400 "400MR"

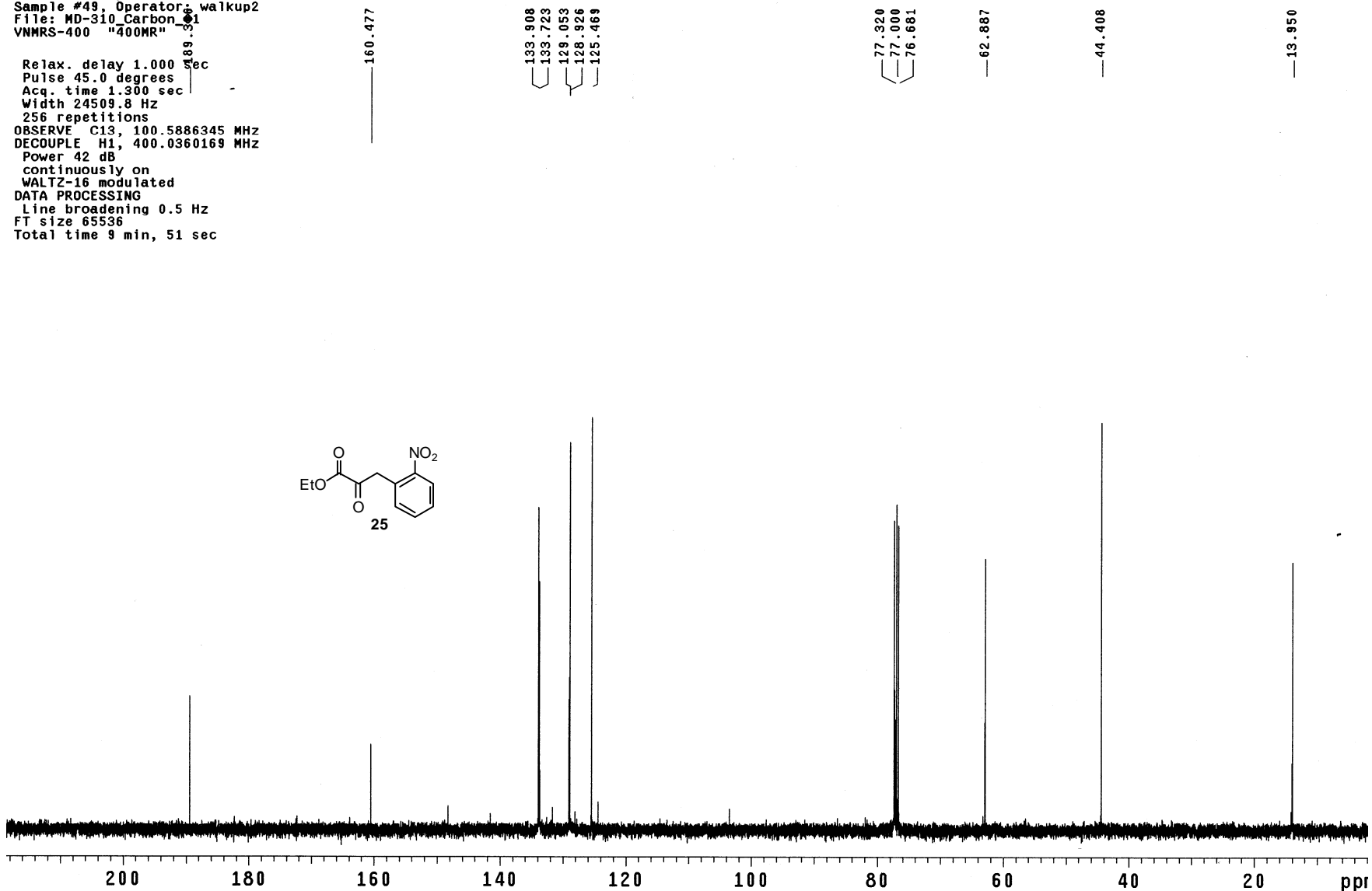
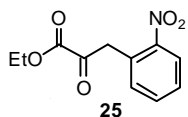
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6830.6 Hz
8 repetitions
OBSERVE H1, 400.0340091 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



Sample: MD-310
Sample ID: s_49_MD-310_koo-4_20140623_01
File: /home/walkup2/vnmrsys/data/koo-4/MD-310_Carbon_01.f1d

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #49, Operator: walkup2
File: MD-310_Carbon_01
VNMR5-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
256 repetitions
OBSERVE C13, 100.5886345 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 9 min, 51 sec

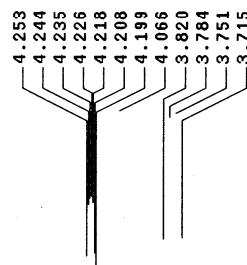
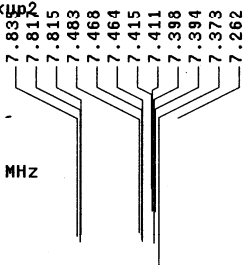


Sample: MD-305
 Sample ID: s_41_MD-305_koo-4_20140613_01
 File: /home/walkup2/vnmrsys/data/koo-4/MD-305_Proton_02.fid

Pulse Sequence: s2pu1

Solvent: cdc13
 Ambient temperature
 Sample #41, Operator: walkup2
 File: MD-305_Proton_02
 VNMR5-400 "400MR"

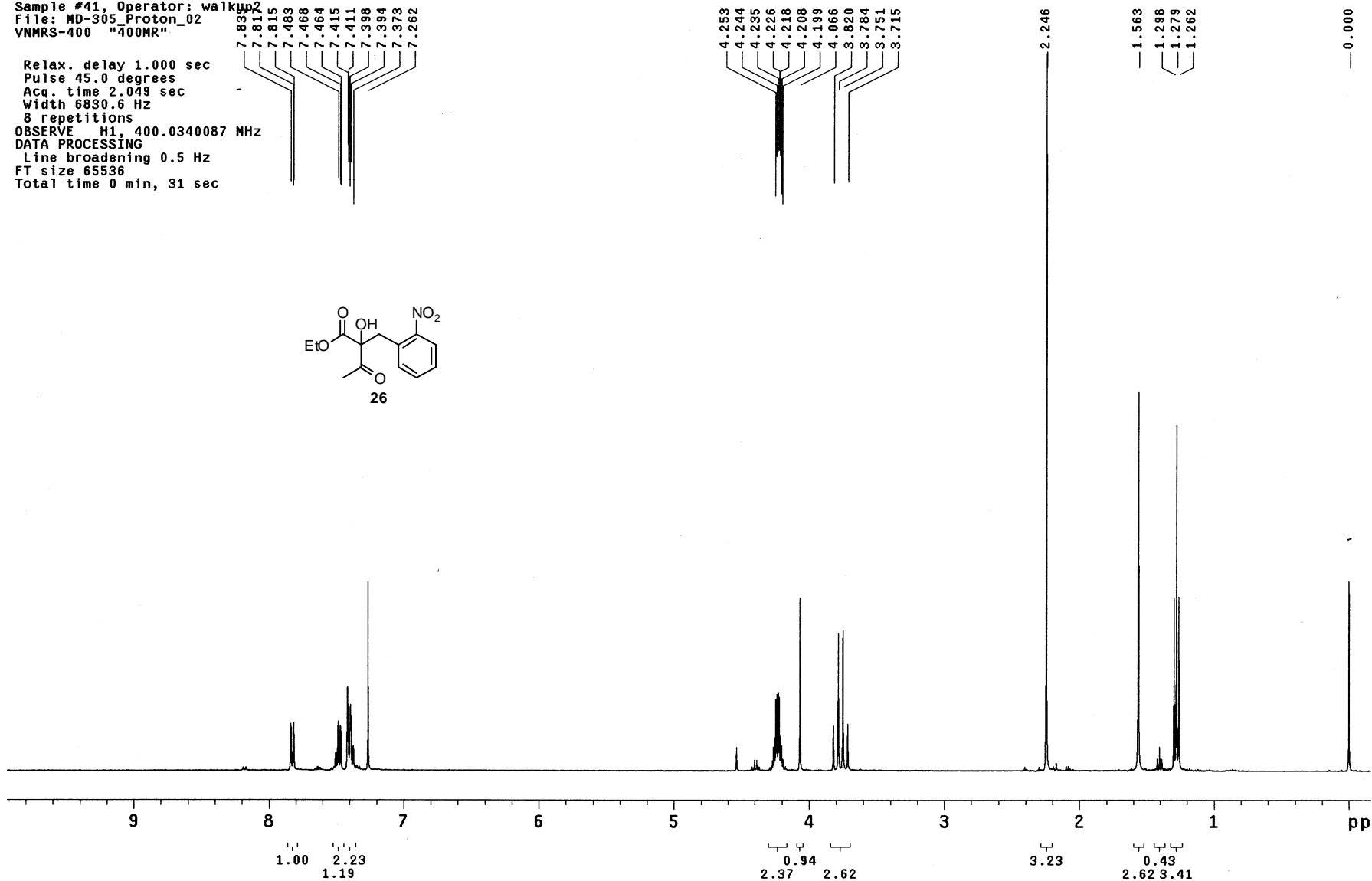
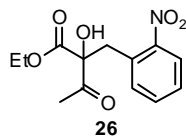
Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 2.049 sec
 Width 6830.6 Hz
 8 repetitions
 OBSERVE H1, 400.0340087 MHz
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 65536
 Total time 0 min, 31 sec



2.246

1.563
 1.298
 1.279
 1.262

0.000



JYM-657-C

Sample: JYM-657-C
Sample ID: s_41_JYM-657-C_koo-4_20130607_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-657-C_Carbon_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #41, Operator: walkup2
File: JYM-657-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886368 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

170.210

151.115

133.008
132.198
128.208
128.115
124.605

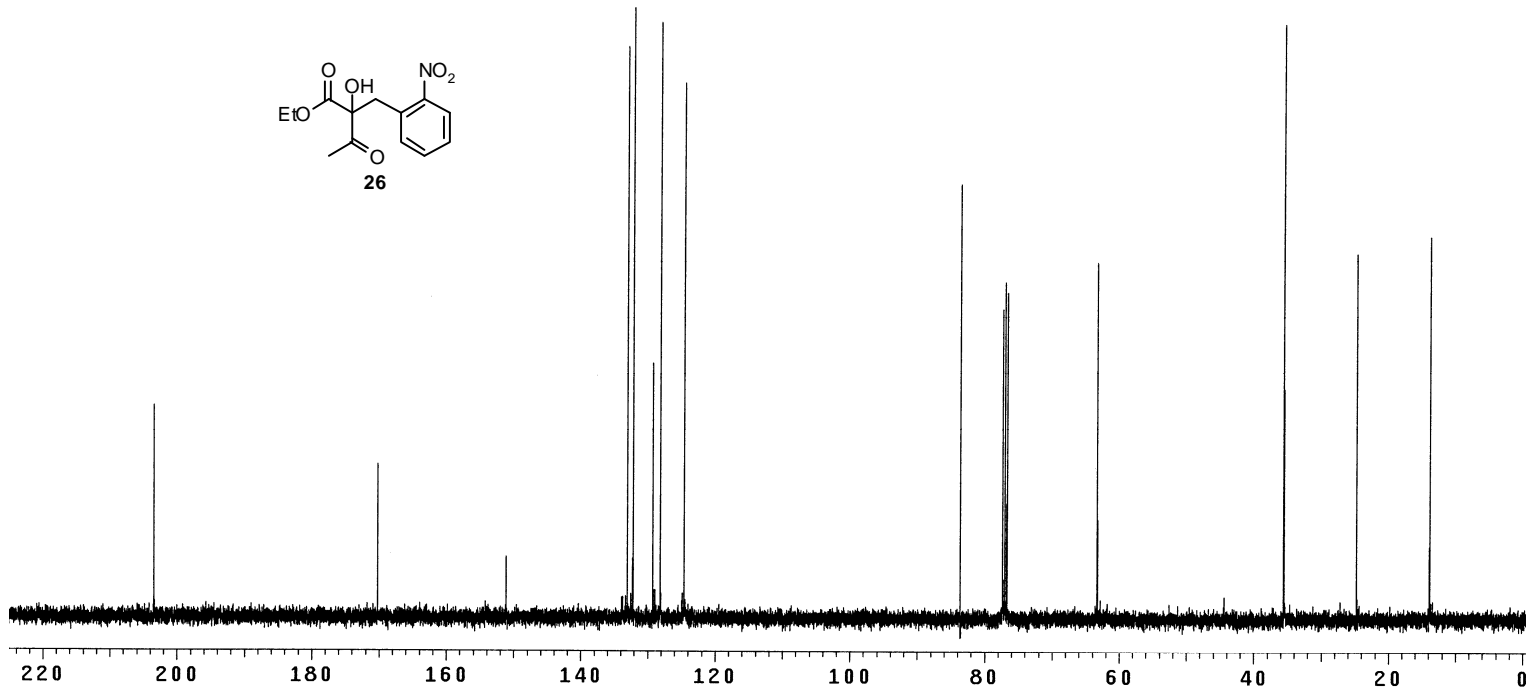
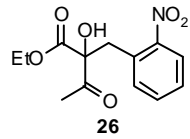
83.603
77.320
77.000
76.680

63.280

35.551

24.747

13.861



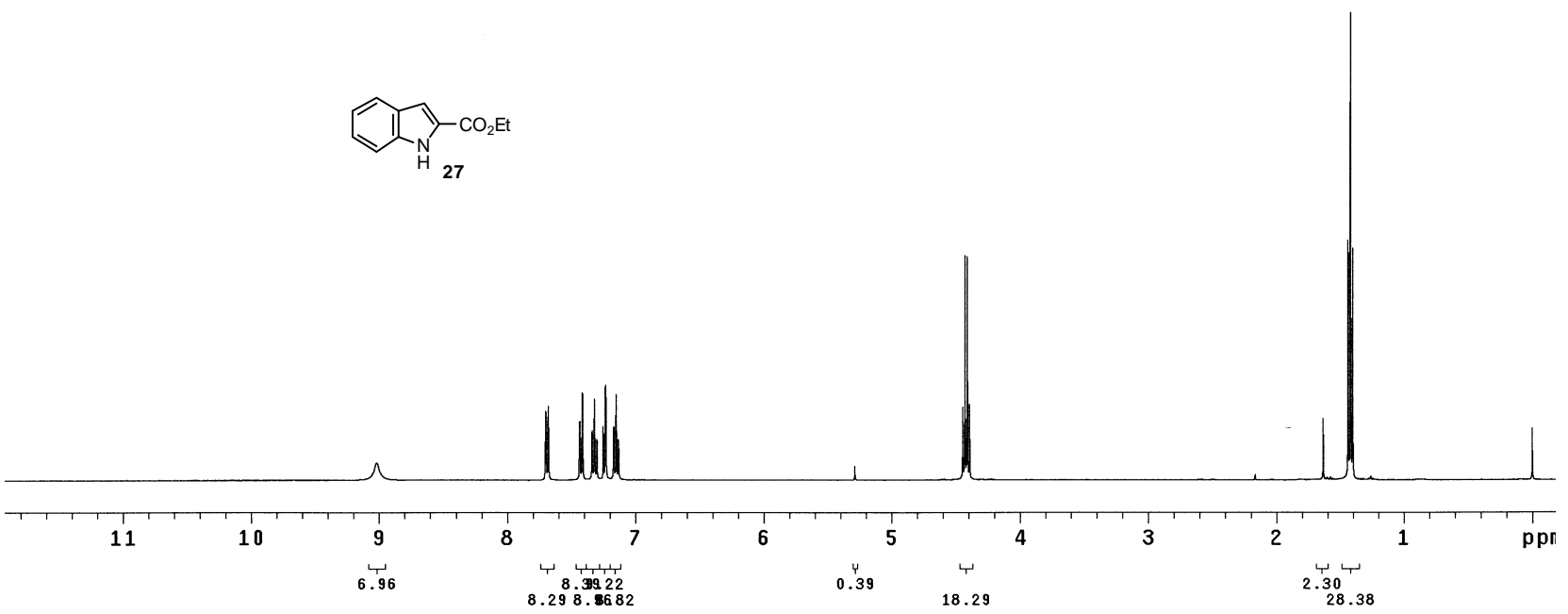
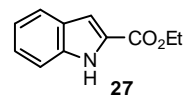
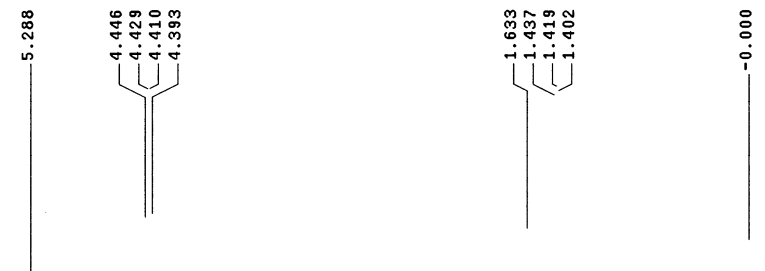
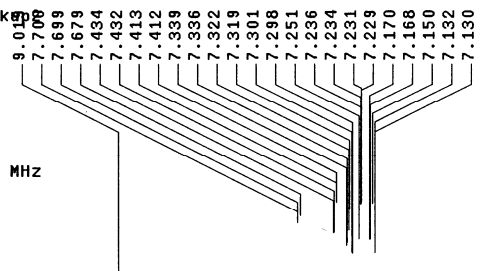
JYM-649-1

Sample: JYM-649-1
Sample ID: s_45_JYM-649-1_koo-4_20130515_02
File: /home/walkup2/vnmrsys/data/koo-4/JYM-649-1_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdcl3
Ambient temperature
Sample #45, Operator: walkup
File: JYM-649-1_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340132 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-649-1-C

Sample: JYM-649-1-C

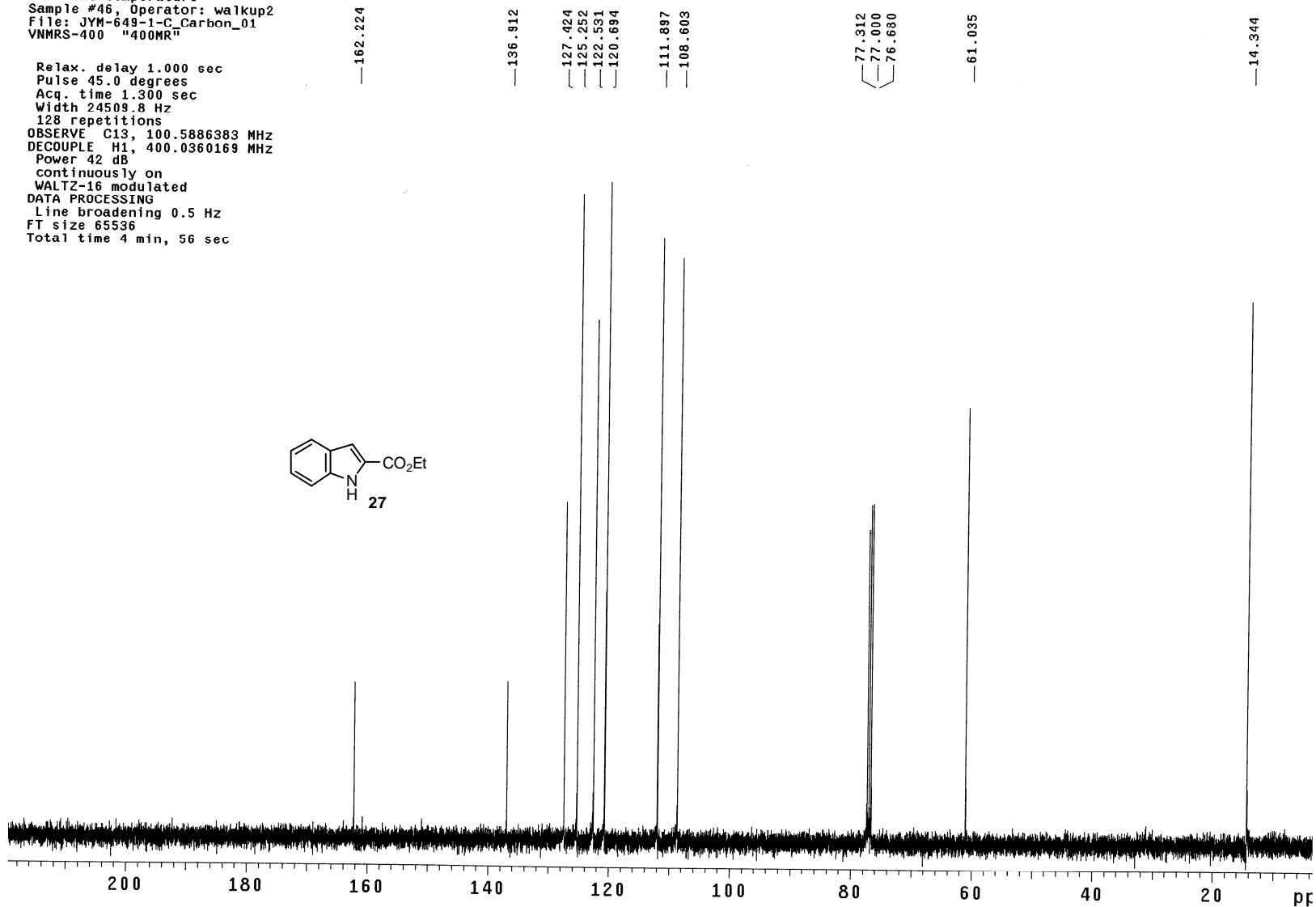
Sample ID: s_46_JYM-649-1-C_Koo-4_20130725_01

File: /home/walkup2/vnmrsvs/data/Koo-4/JYM-649-1-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #46, Operator: walkup2
File: JYM-649-1-C_Carbon_01
VNMR-400 "400MR"

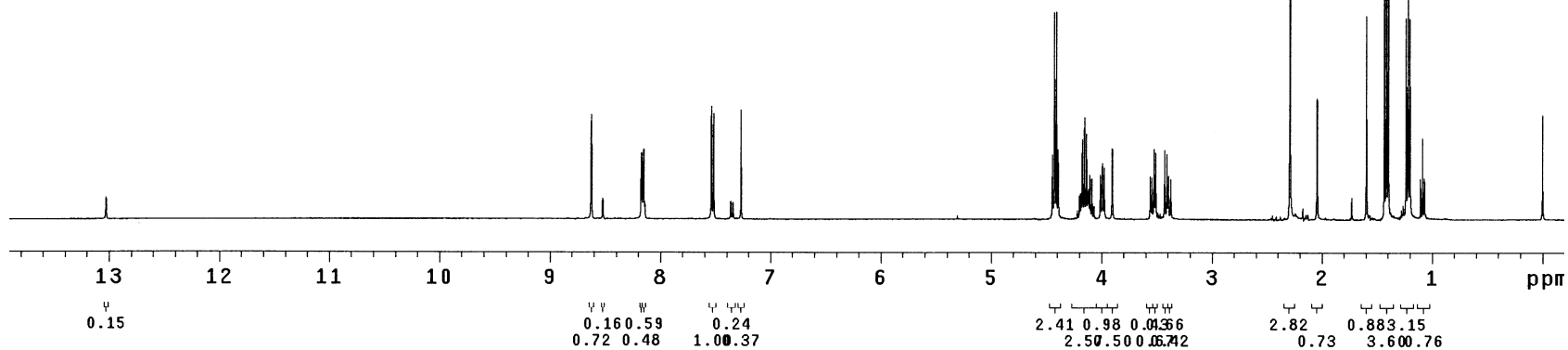
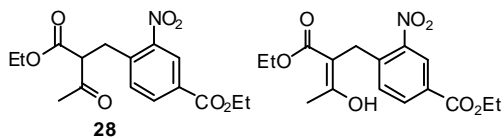
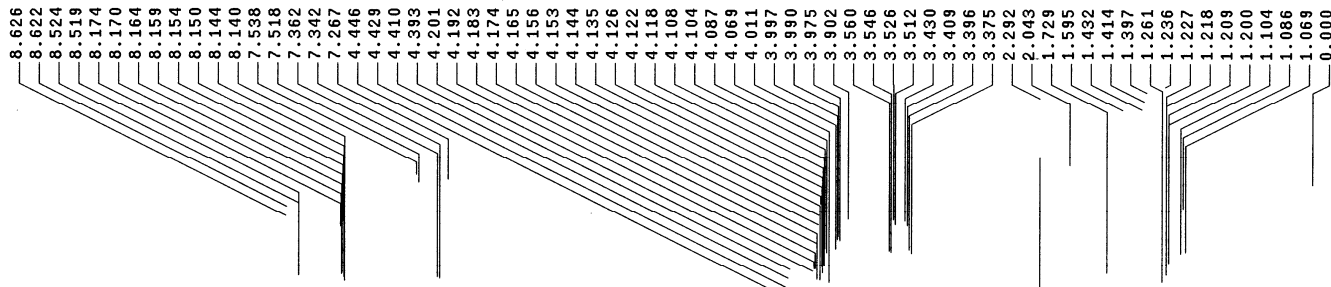
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886383 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec



JYM-715

Sample: JYM-715
Sample ID: s_46_JYM-715_koo-4_20130709_01
File: /home/walkup2/vnmr/5ys/data/koo-4/JYM-715_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #46, Operator: walkup2
File: JYM-715_Proton_01
VNMR5-400 "400MR"
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340072 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



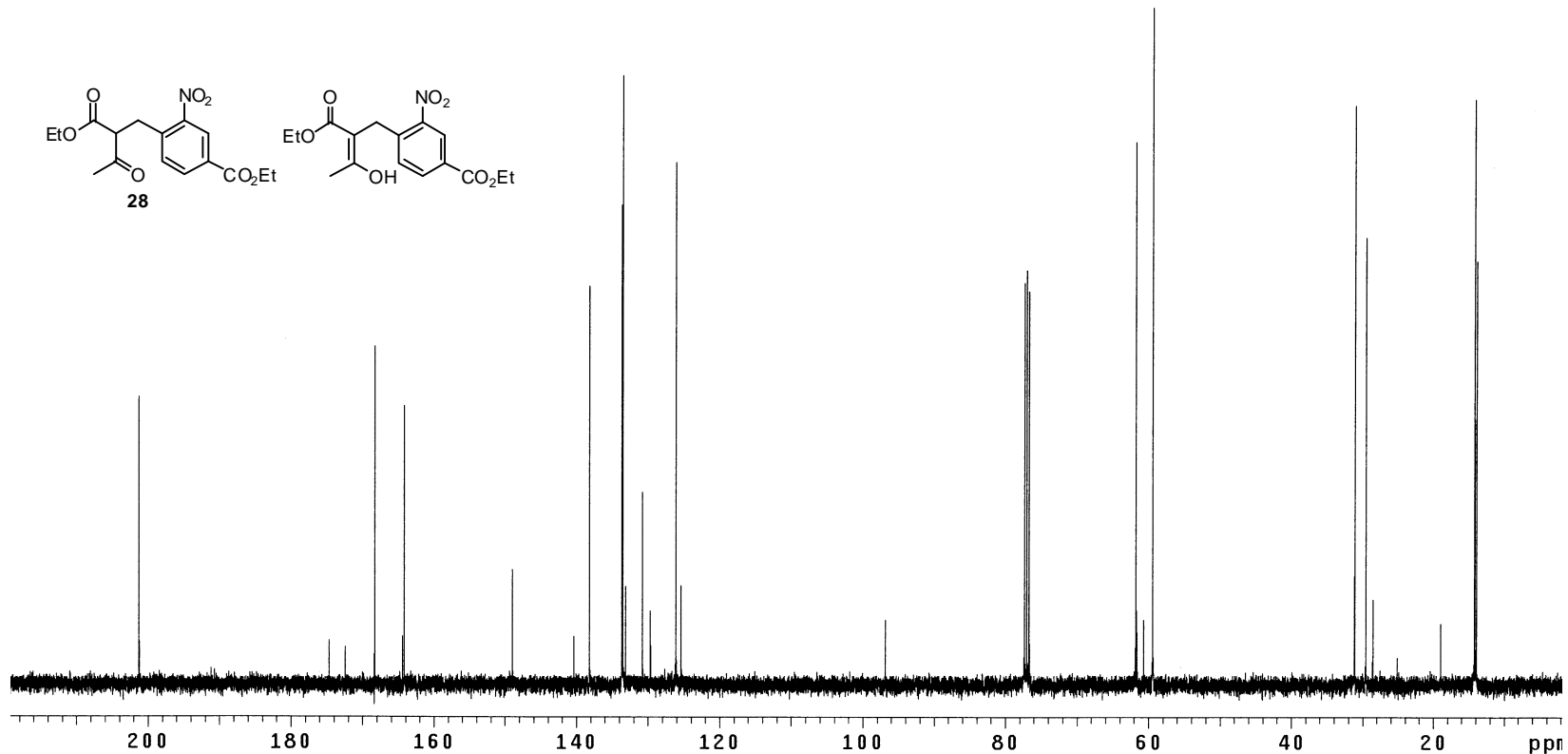
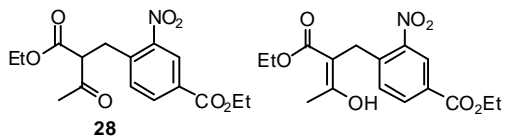
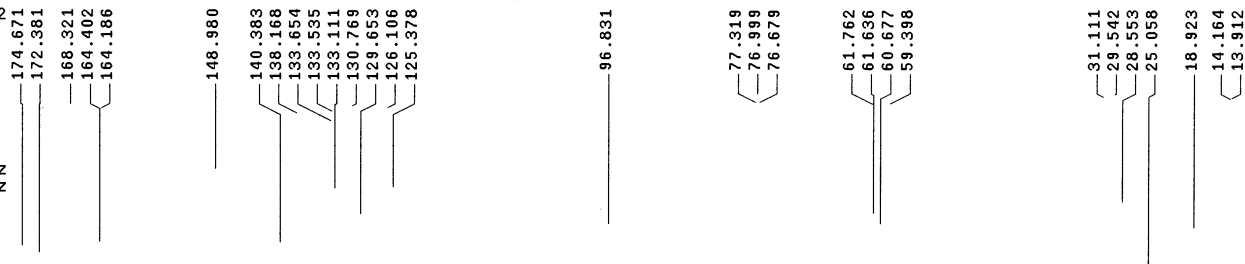
JYM-715-C

Sample: JYM-715-C
Sample ID: s_46_JYM-715-C_koo-4_20130726_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-715-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #467 Operator: walkup2
File: JYM-715-C_Carbon_01
VNMR-400 400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.6 Hz
128 repetitions
OBSERVE C13, 100.5886377 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec



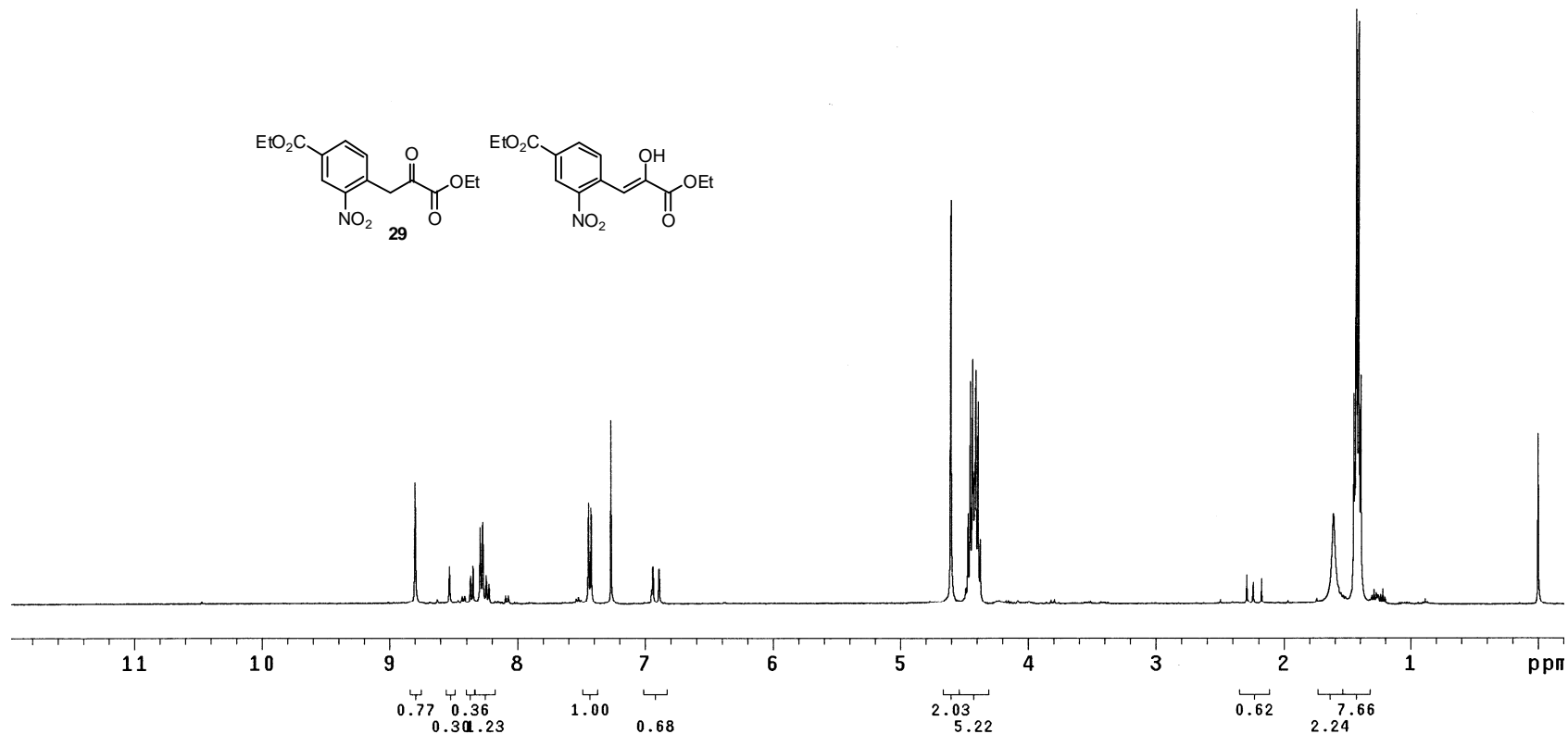
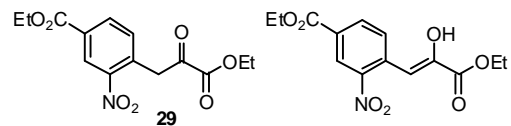
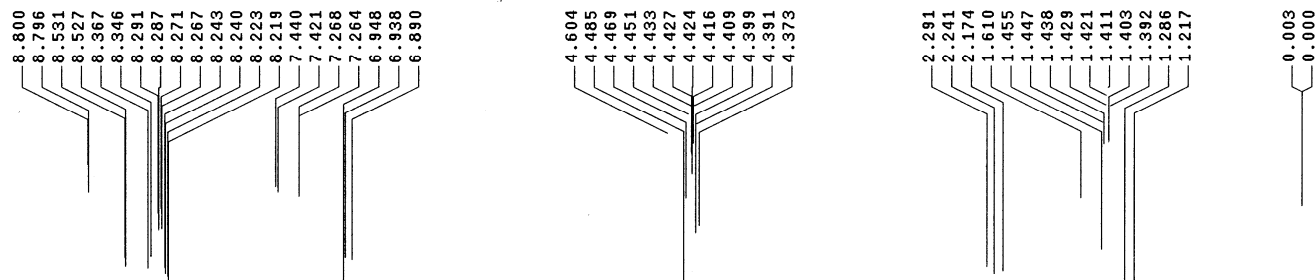
JYM-718

Sample: JYM-718
Sample ID: s_42_JYM-718_koo-4_20130710_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-718_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #42, Operator: walkup2
File: JYM-718_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340082 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



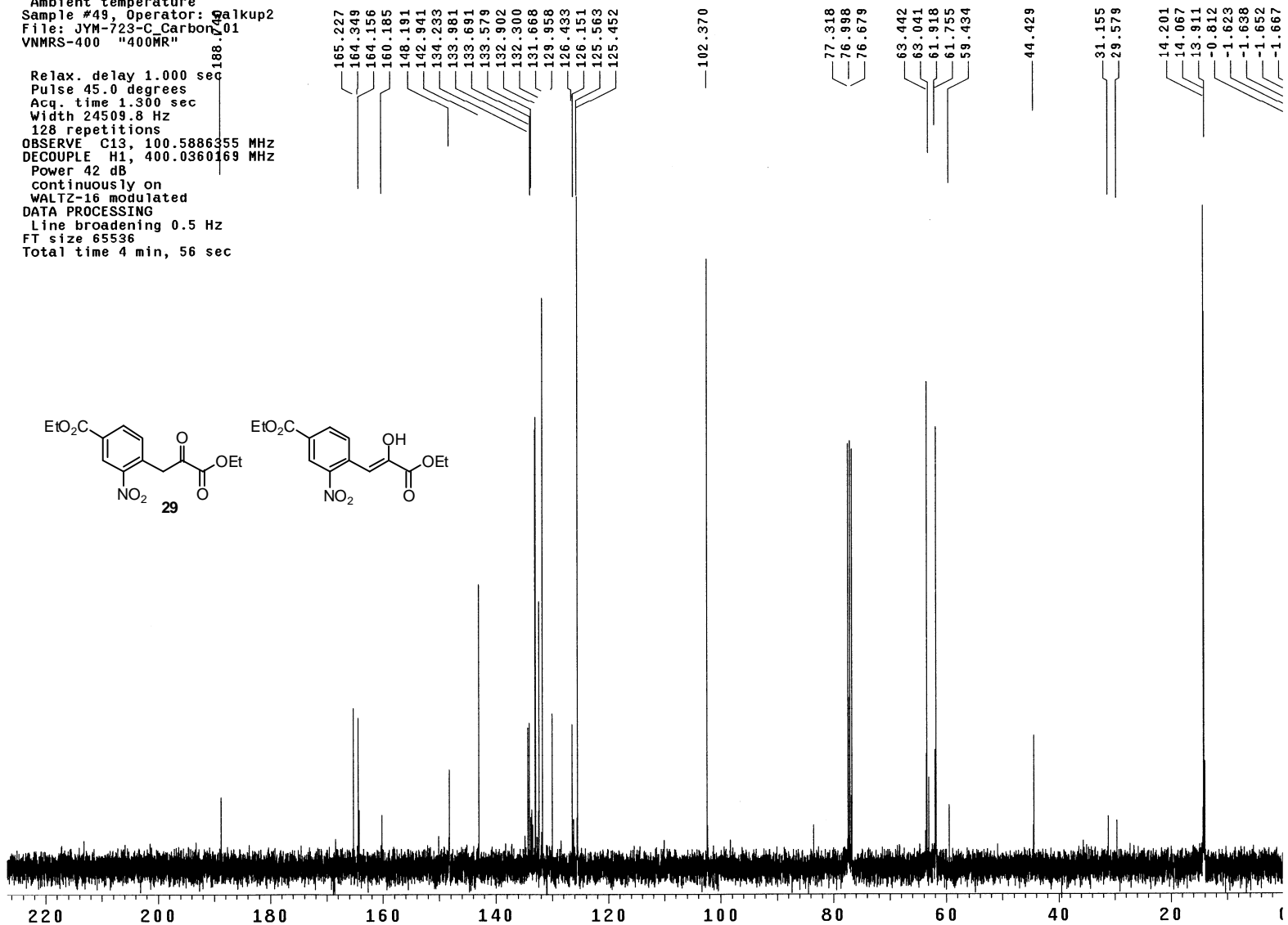
JYM-723-C

Sample: JYM-723-C
Sample ID: s_49_JYM-723-C_koo-4_20130717_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-723-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #49, Operator: walkup2
File: JYM-723-C_Carbon_01
VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886355 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

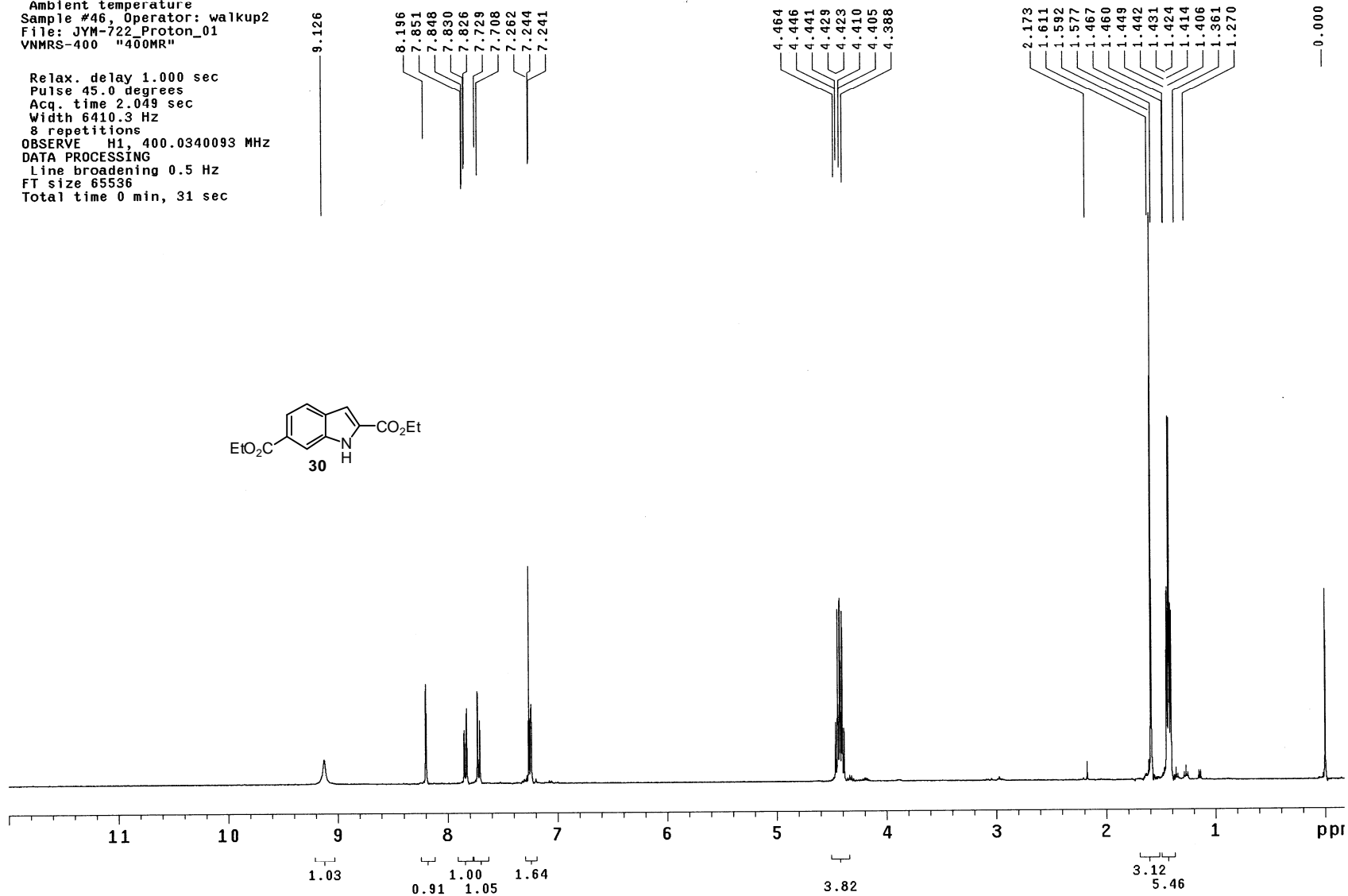


JYM-722

Sample: JYM-722
Sample ID: s_46_JYM-722_koo-4_20130711_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-722_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #46, Operator: walkup2
File: JYM-722_Proton_01
VNMR5-400 "400MR"

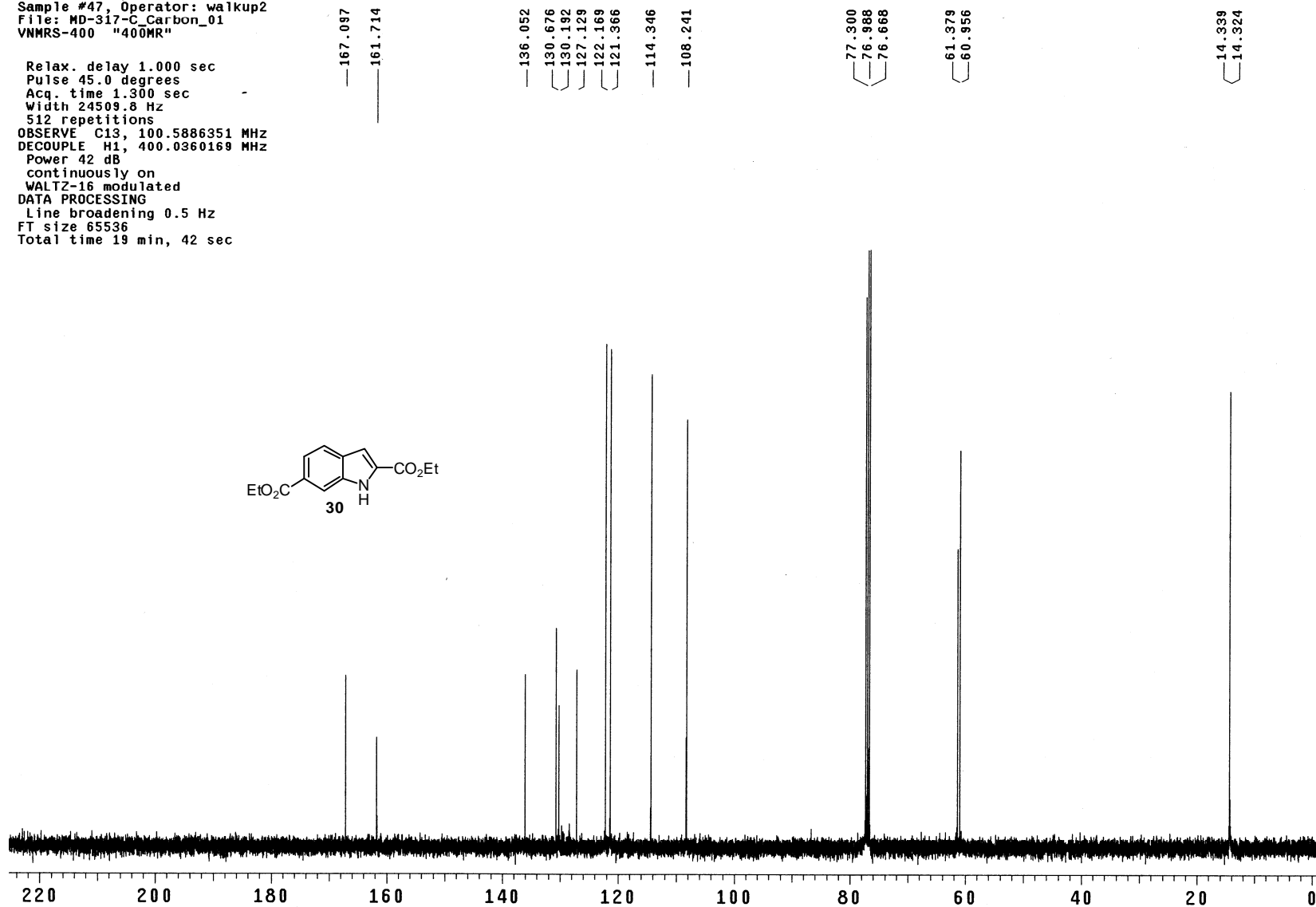
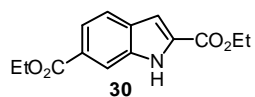
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340093 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



Sample: MD-317-C
Sample ID: s_47_MD-317-C_koo-4_20140627_01
File: /home/walkup2/vnmrsys/data/koo-4/MD-317-C_Carbon_01.fid

Pulse Sequence: s2pu1
Solvent: cdcl3
Ambient temperature
Sample #47, Operator: walkup2
File: MD-317-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886351 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec



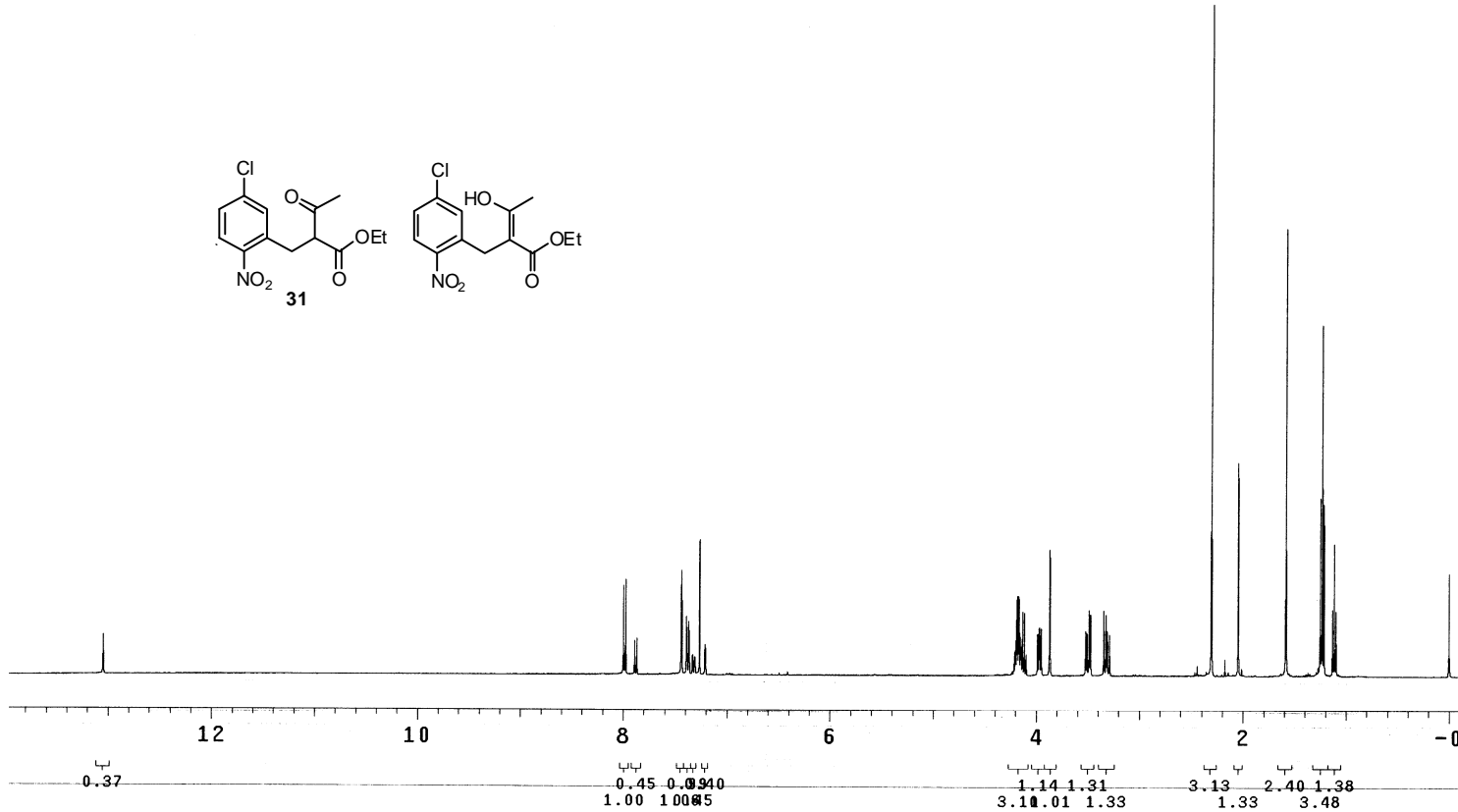
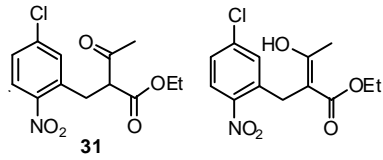
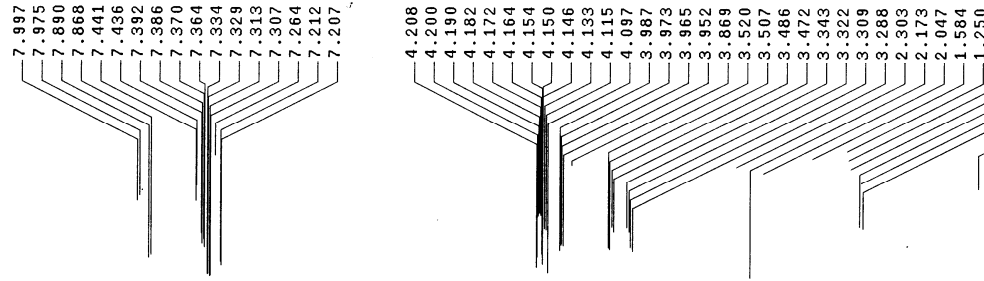
JYM-772-1

Sample: JYM-772-1
Sample ID: s_49_JYM-772-1_koo-4_20130808_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-772-1_Proton_01.fid

Pulse Sequence: s2pul

Solvent: cdc13
Ambient temperature
Sample #49, Operator: walkup2
File: JYM-772-1_Proton_01
VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340078 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



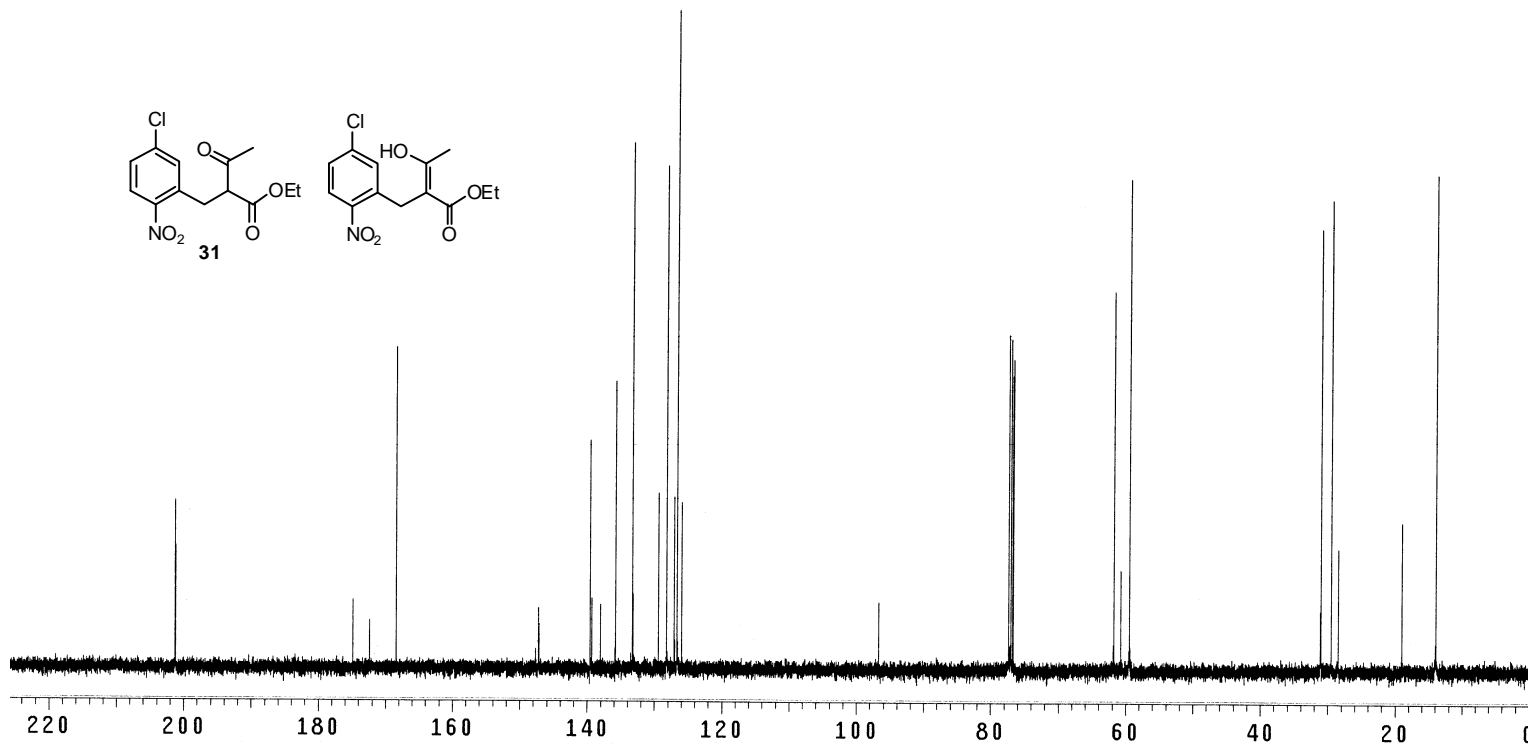
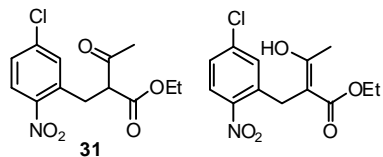
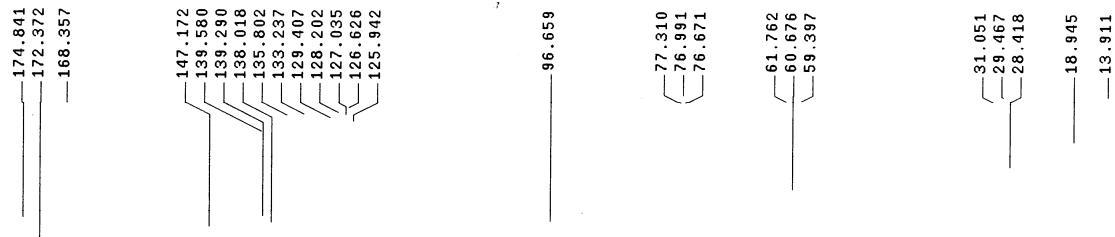
JYM-772-1-C

Sample: JYM-772-1-C
Sample ID: s_46_JYM-772-1-C_koo-4_20130808_01
File: /home/walkup2/vnmrSYS/data/koo-4/JYM-772-1-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #46, Operator: walkup2
File: JYM-772-1-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886385 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

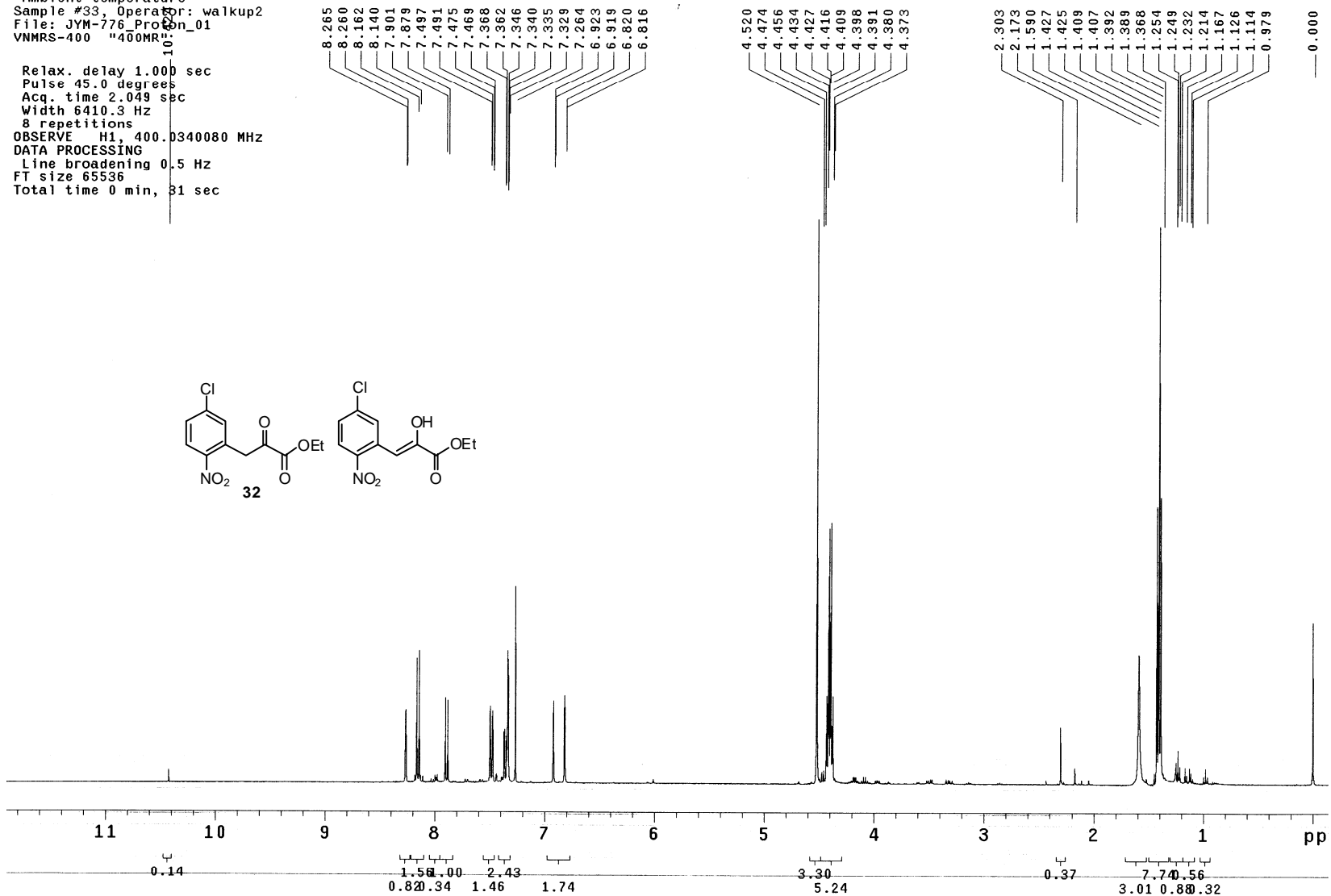


JYM-776

Sample: JYM-776
Sample ID: s_33_JYM-776_koo-4_20130808_01
File: /home/walkup2/vnmrfsys/data/koo-4/JYM-776_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #33, Operator: walkup2
File: JYM-776_Proton_01
VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340080 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



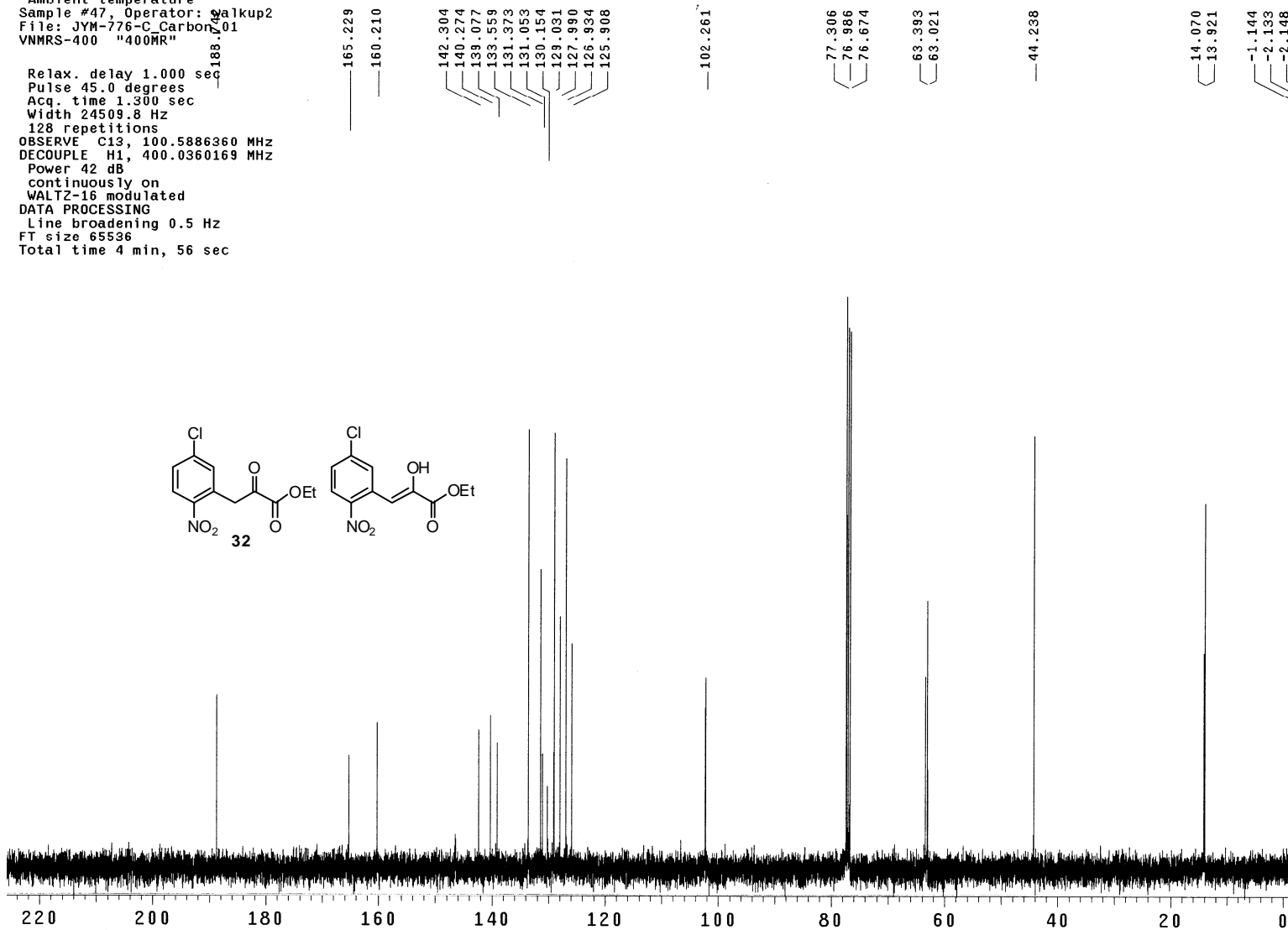
JYM-776-C

Sample: JYM-776-C
Sample ID: s_47_JYM-776-C_koo-4_20130808_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-776-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdcl3
Ambient temperature
Sample #47, Operator: walkup2
File: JYM-776-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886360 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

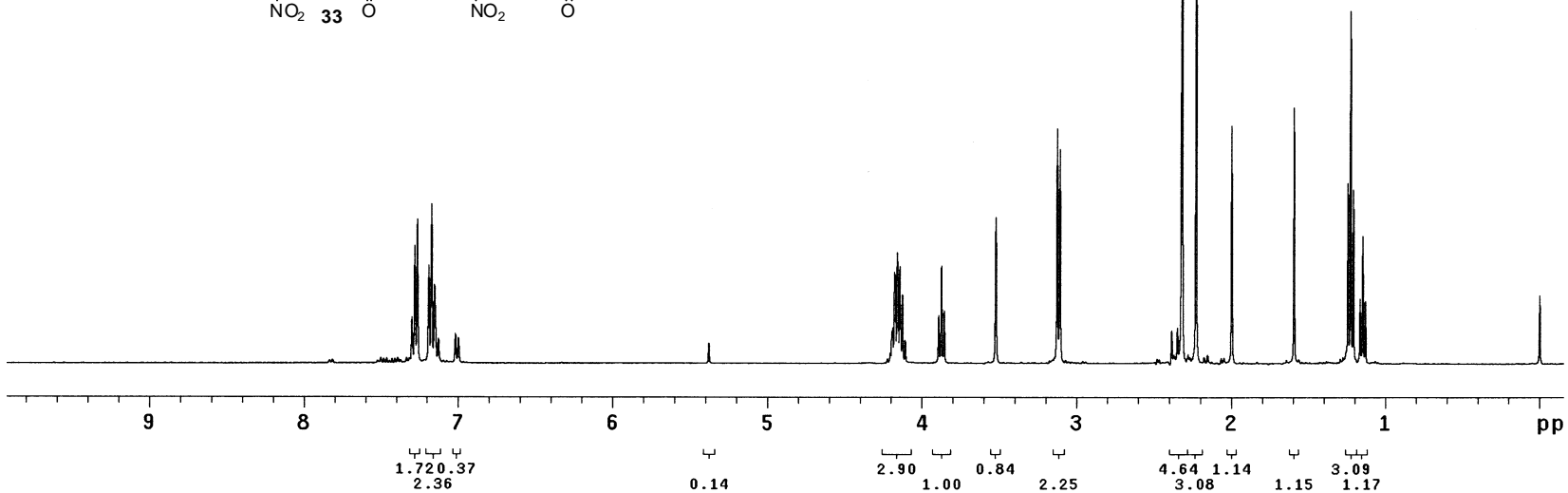
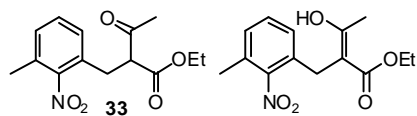
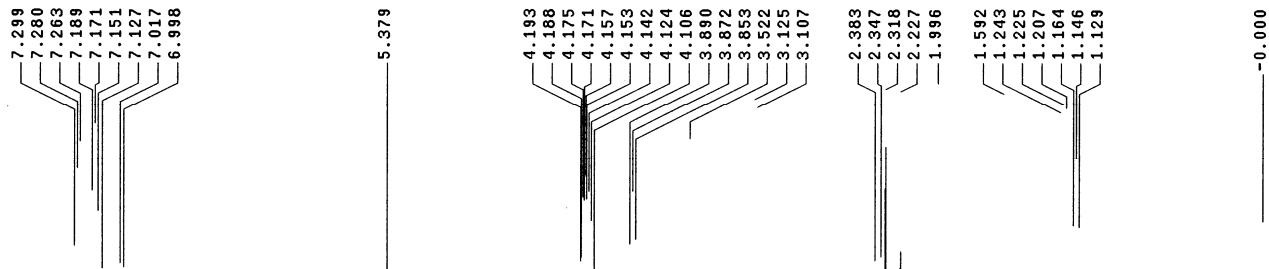


JYM-789

Sample: JYM-789
Sample ID: s_44_JYM-789_koo-4_20130816_01
File: /home/walkup2/vnmrSYS/data/koo-4/JYM-789_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #44, Operator: walkup2
File: JYM-789_Proton_01
VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340078 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-789-C

Sample: JYM-789-C

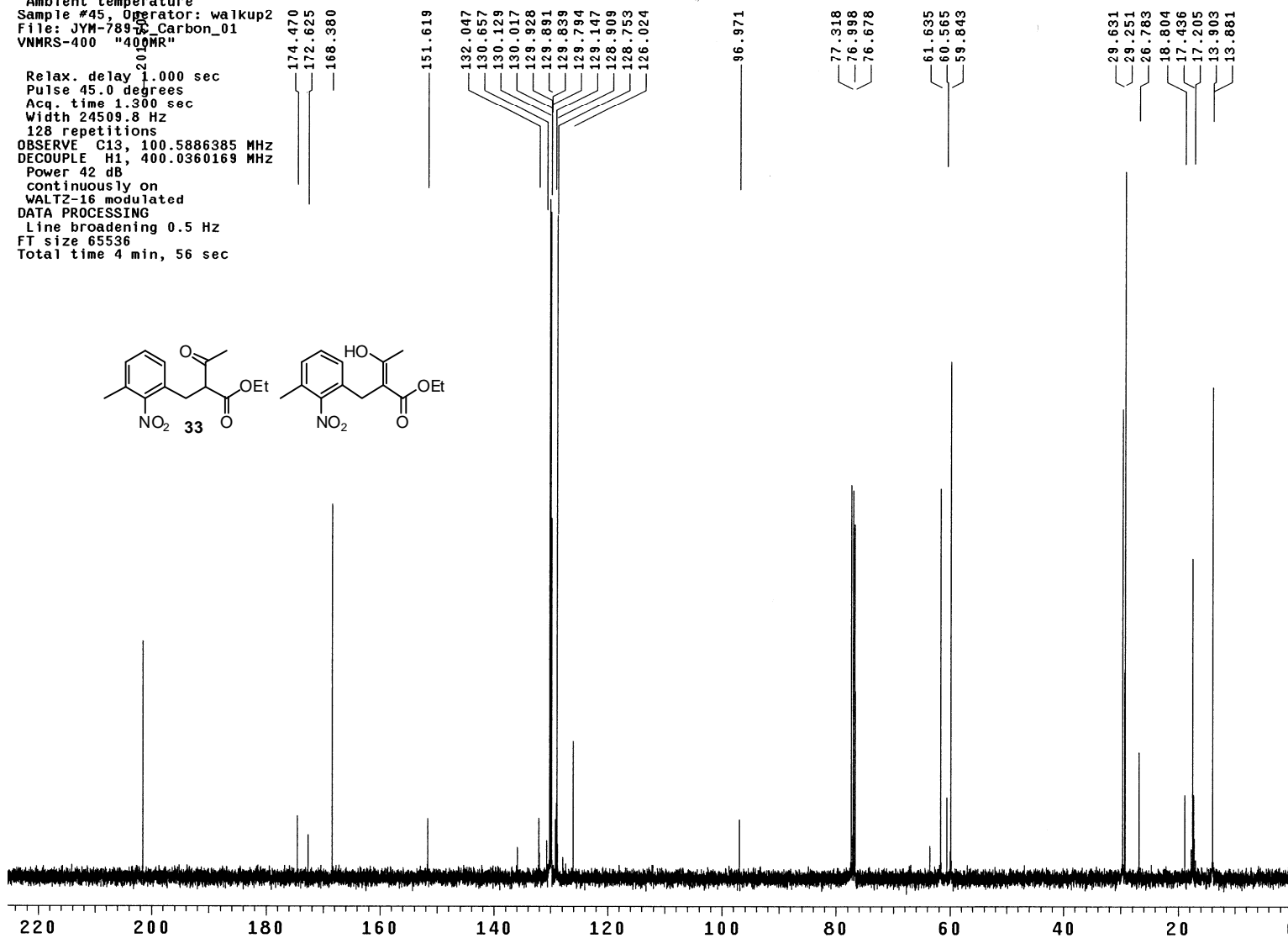
Sample ID: s_45_JYM-789-C_koo-4_20130821_01

File: /home/walkup2/vnmrsys/data/koo-4/JYM-789-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #45, Operator: walkup2
File: JYM-789-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886385 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

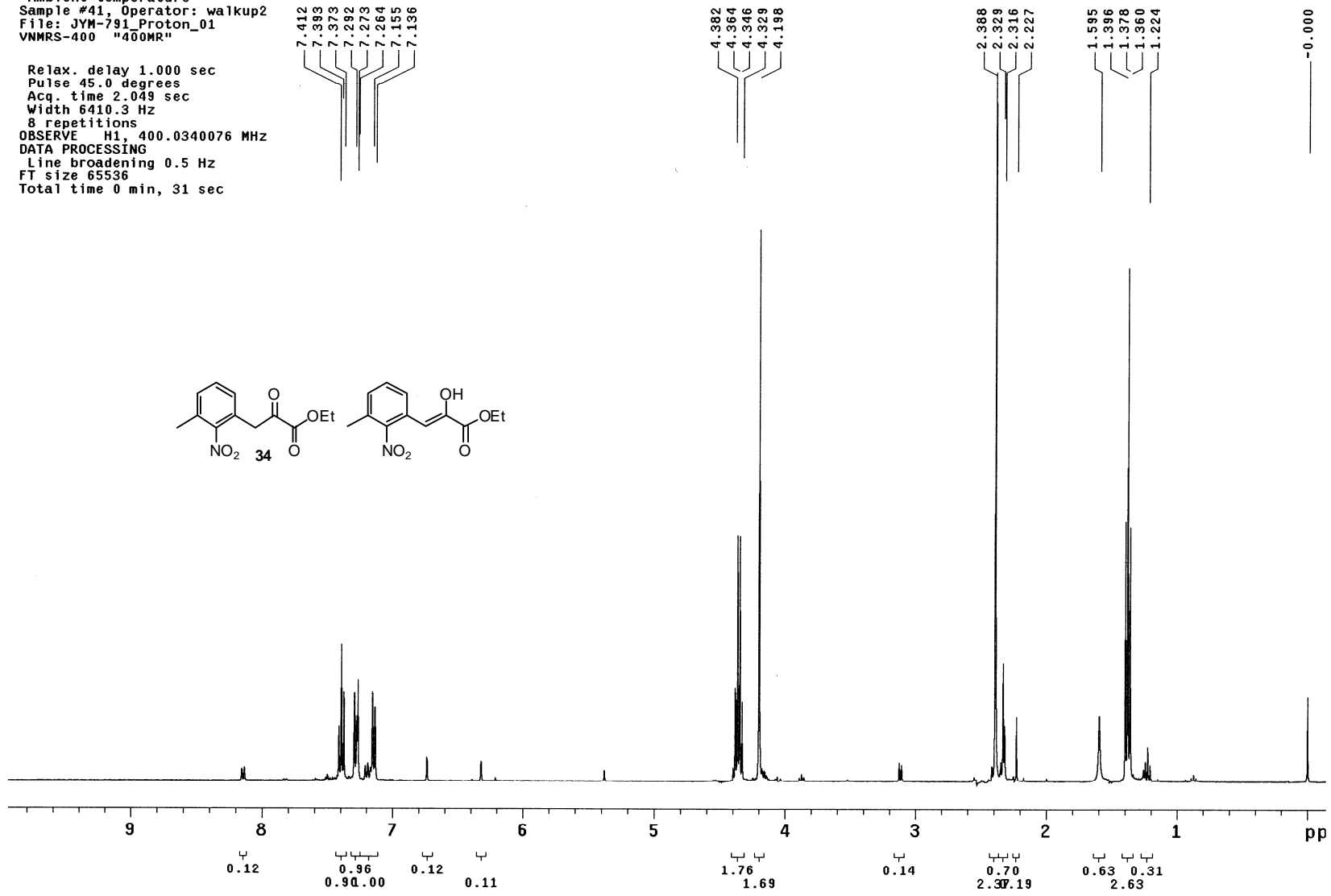
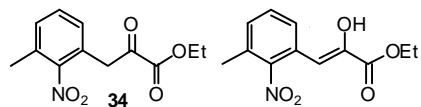
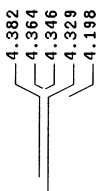
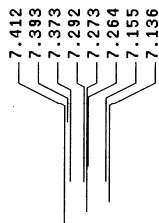


JYM-791

Sample: JYM-791
Sample ID: s_41_JYM-791_koo-4_20130816_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-791_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #41, Operator: walkup2
File: JYM-791_Proton_01
VNMR5-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340076 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



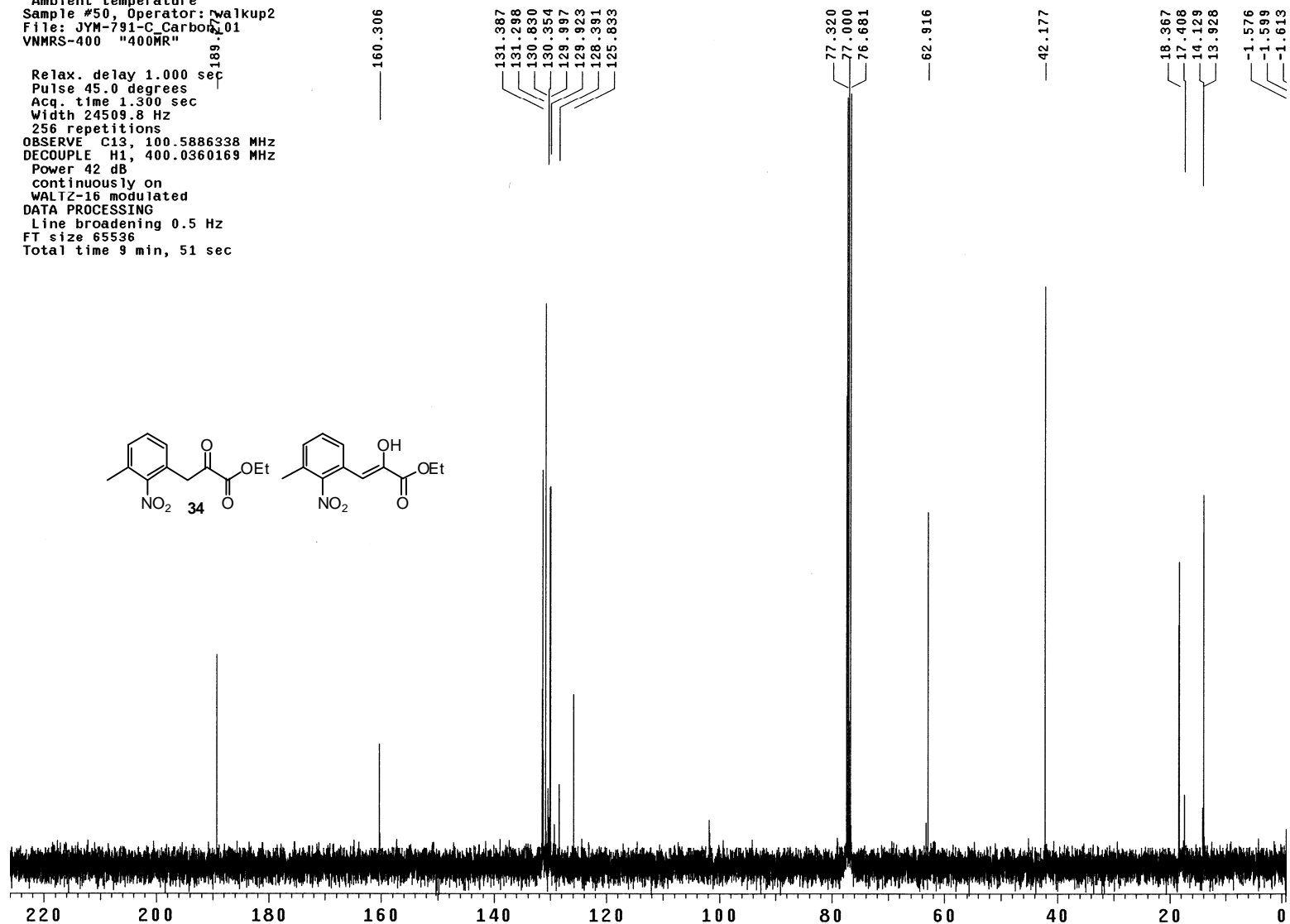
JYM-791-C

Sample: JYM-791-C
Sample ID: s_50_JYM-791-C_koo-4_20130816_02
File: /home/walkup2/vnmrsys/data/koo-4/JYM-791-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #50, Operator: walkup2
File: JYM-791-C_Carbon_01
VNMRS-400 "400MR"

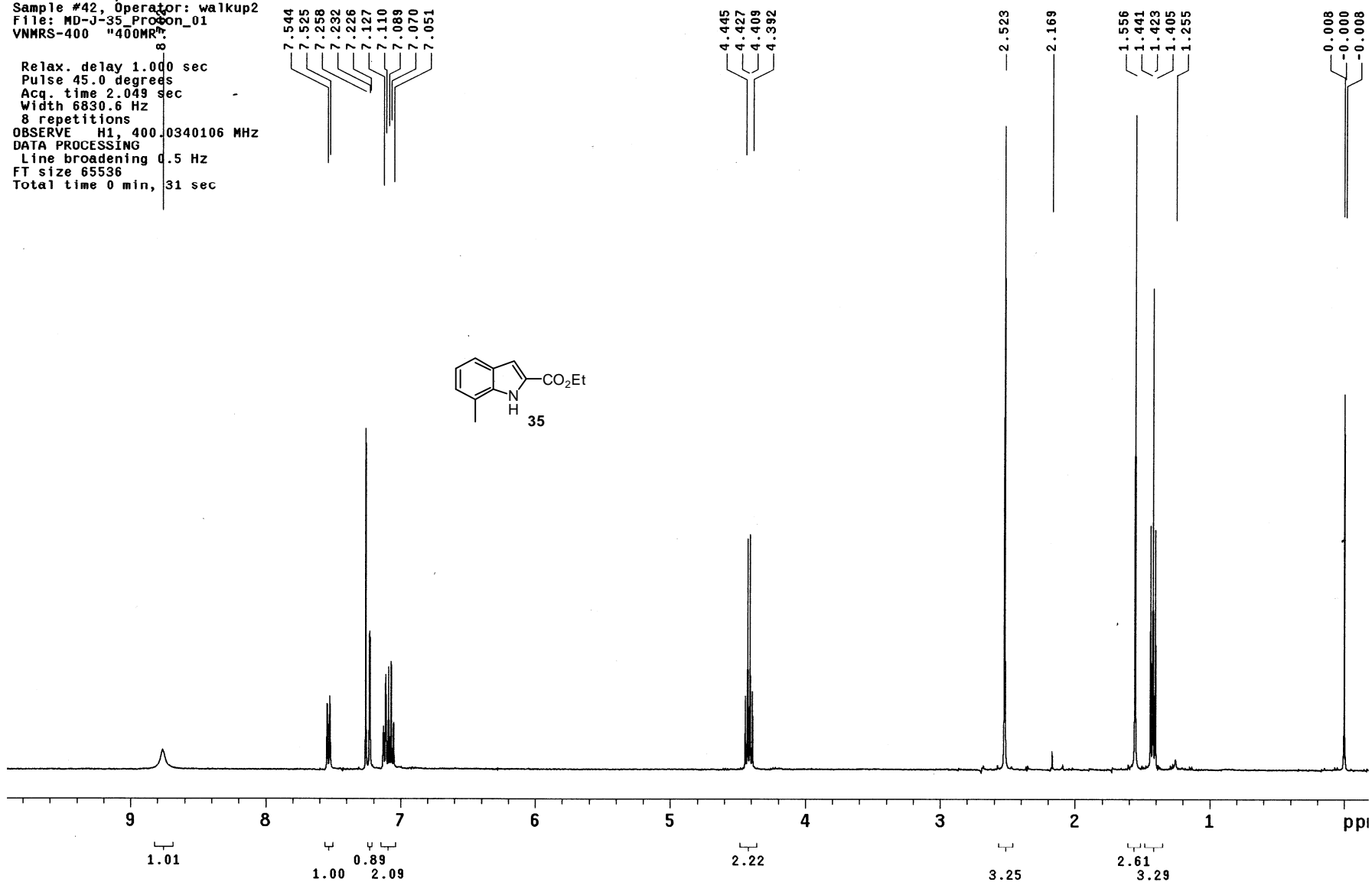
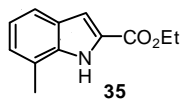
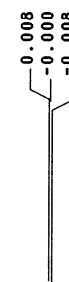
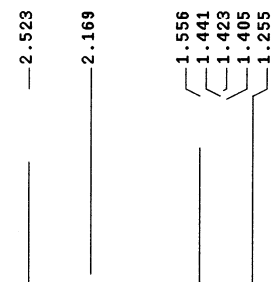
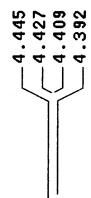
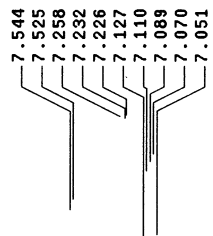
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
256 repetitions
OBSERVE C13, 100.5886338 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 9 min, 51 sec



Sample: MD-J-35
Sample ID: s_42_MD-J-35_koo-4_20140605_01
File: /home/walkup2/vnmrsys/data/koo-4/MD-J-35_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #42, Operator: walkup2
File: MD-J-35_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6830.6 Hz
8 repetitions
OBSERVE H1, 400.0340106 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec

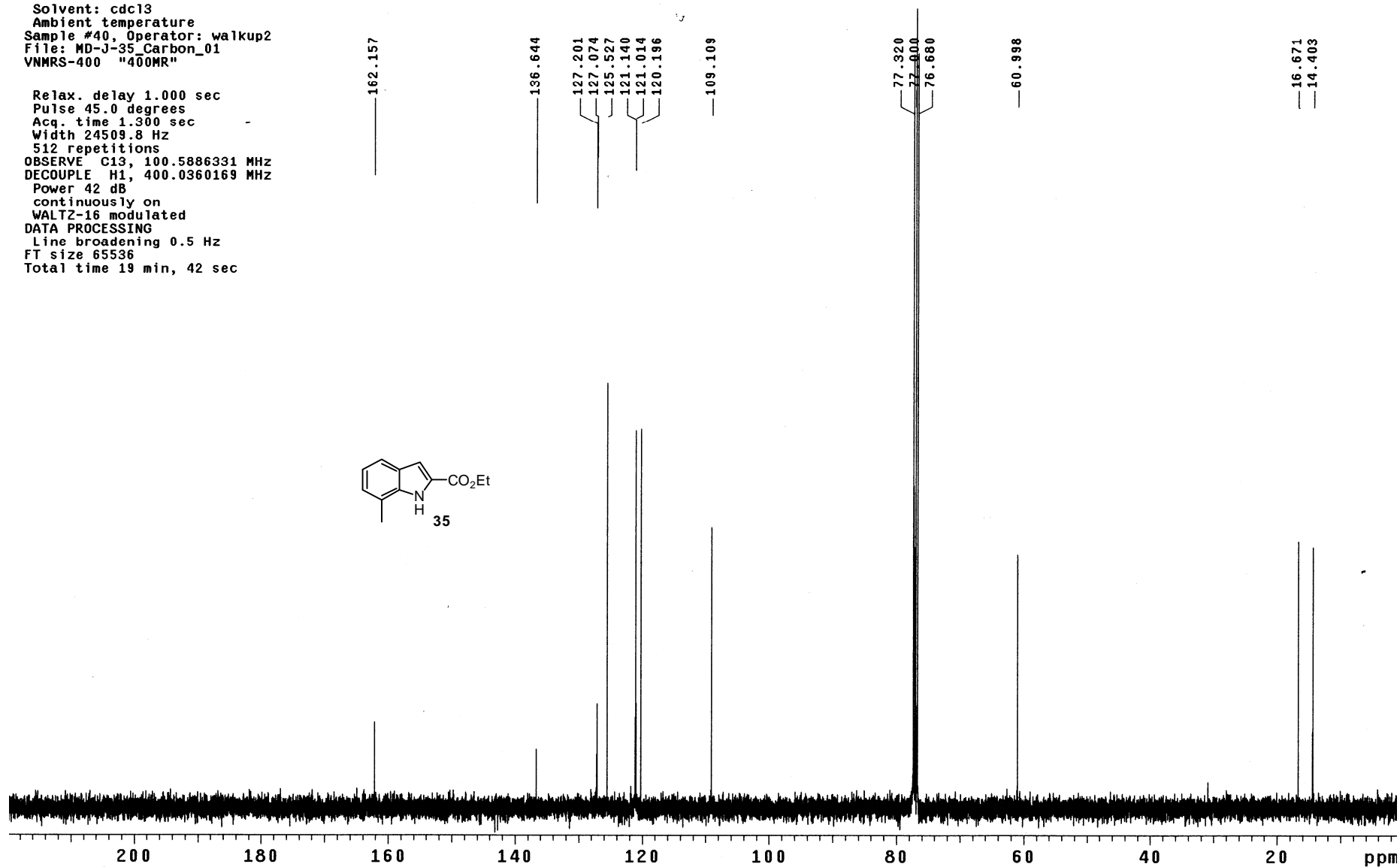
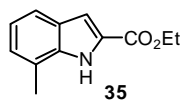


Sample: MD-J-35
Sample ID: s_40_MD-J-35_koo-4_20140605_01
File: /home/walkup2/vnmrsys/data/koo-4/MD-J-35_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #40, Operator: walkup2
File: MD-J-35_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886331 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec



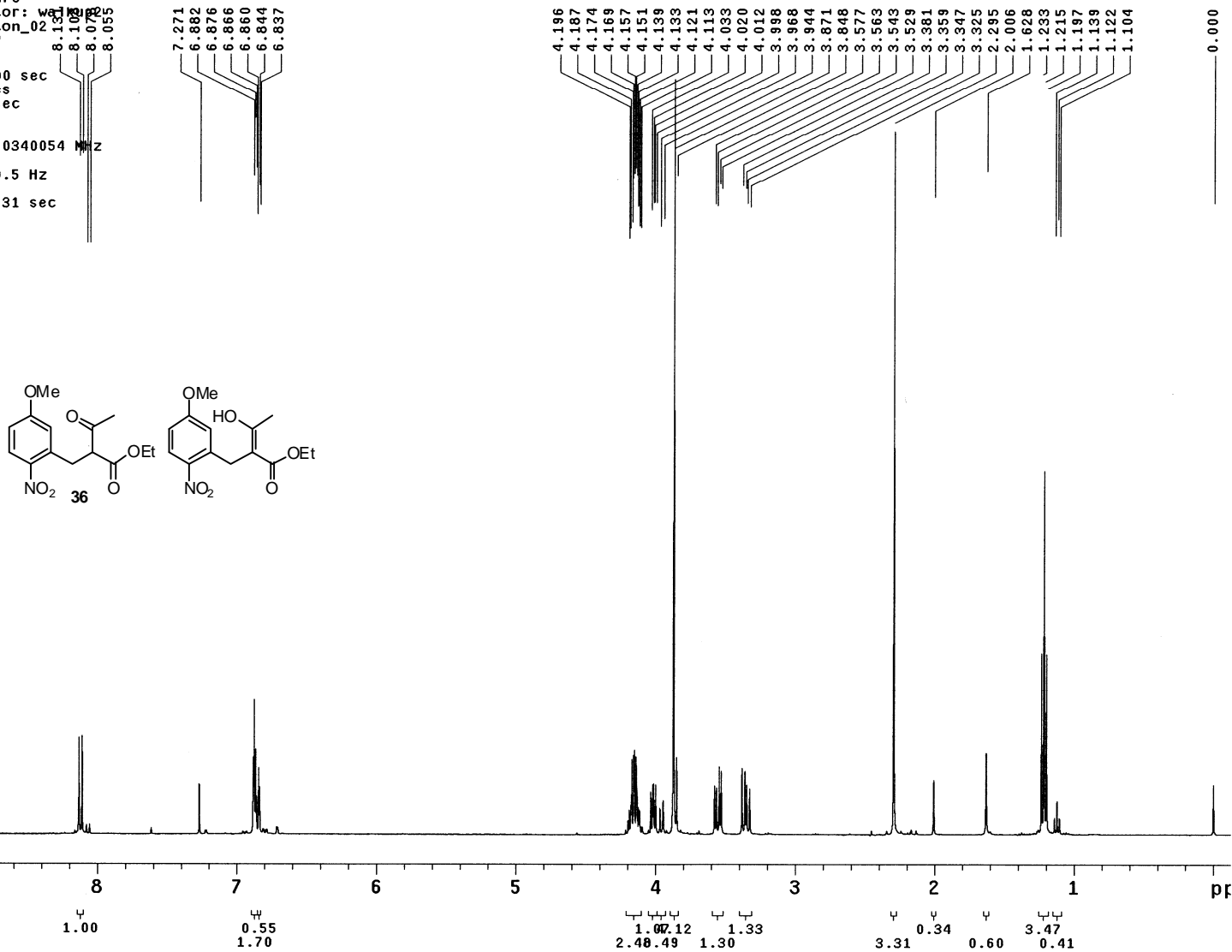
JYM-785

Sample: JYM-785
Sample ID: s_45_JYM-785_koo-4_20130814_01
File: /home/walkup2/vnmr/sys/data/koo-4/JYM-785_Proton_02.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #45, Operator: wa
File: JYM-785_Proton_02
VNMR5-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340054 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



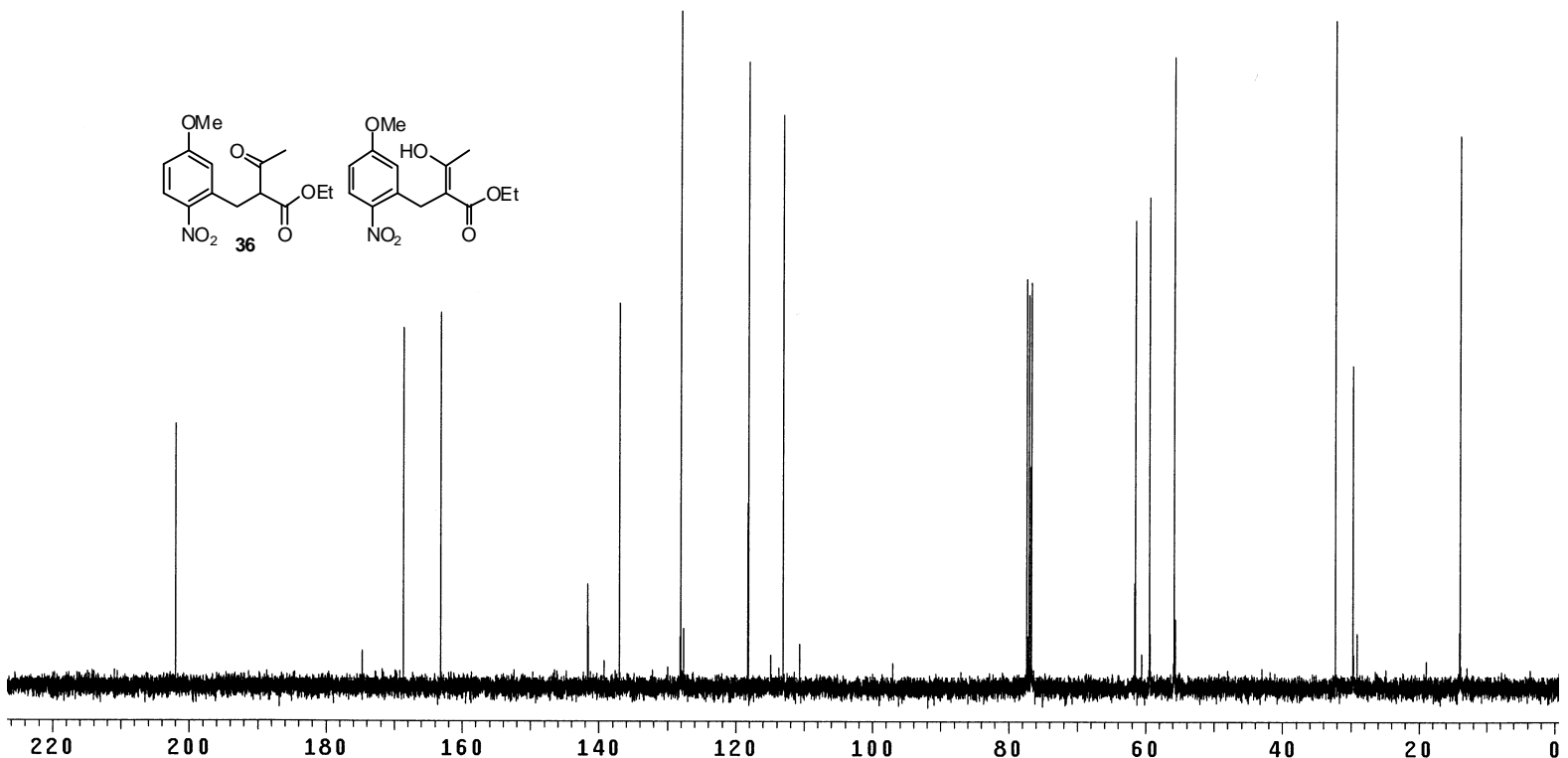
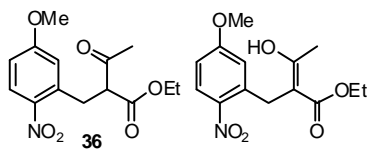
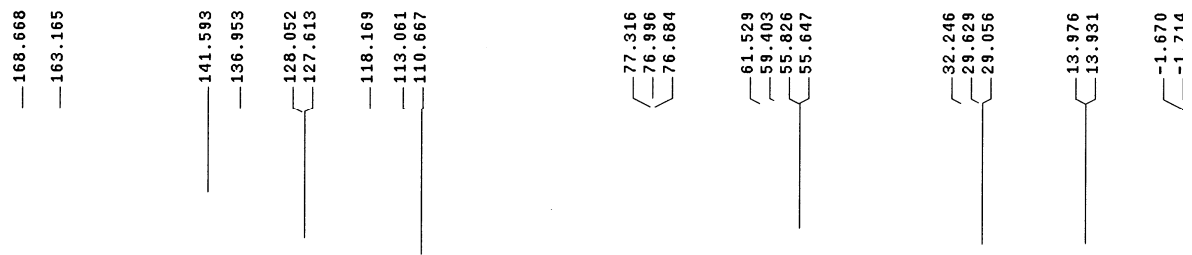
JYM-785-C

Sample: JYM-785-C
Sample ID: s_47_JYM-785-C_koo-4_20130814_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-785-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #47, Operator: walkup2
File: JYM-785-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886372 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec



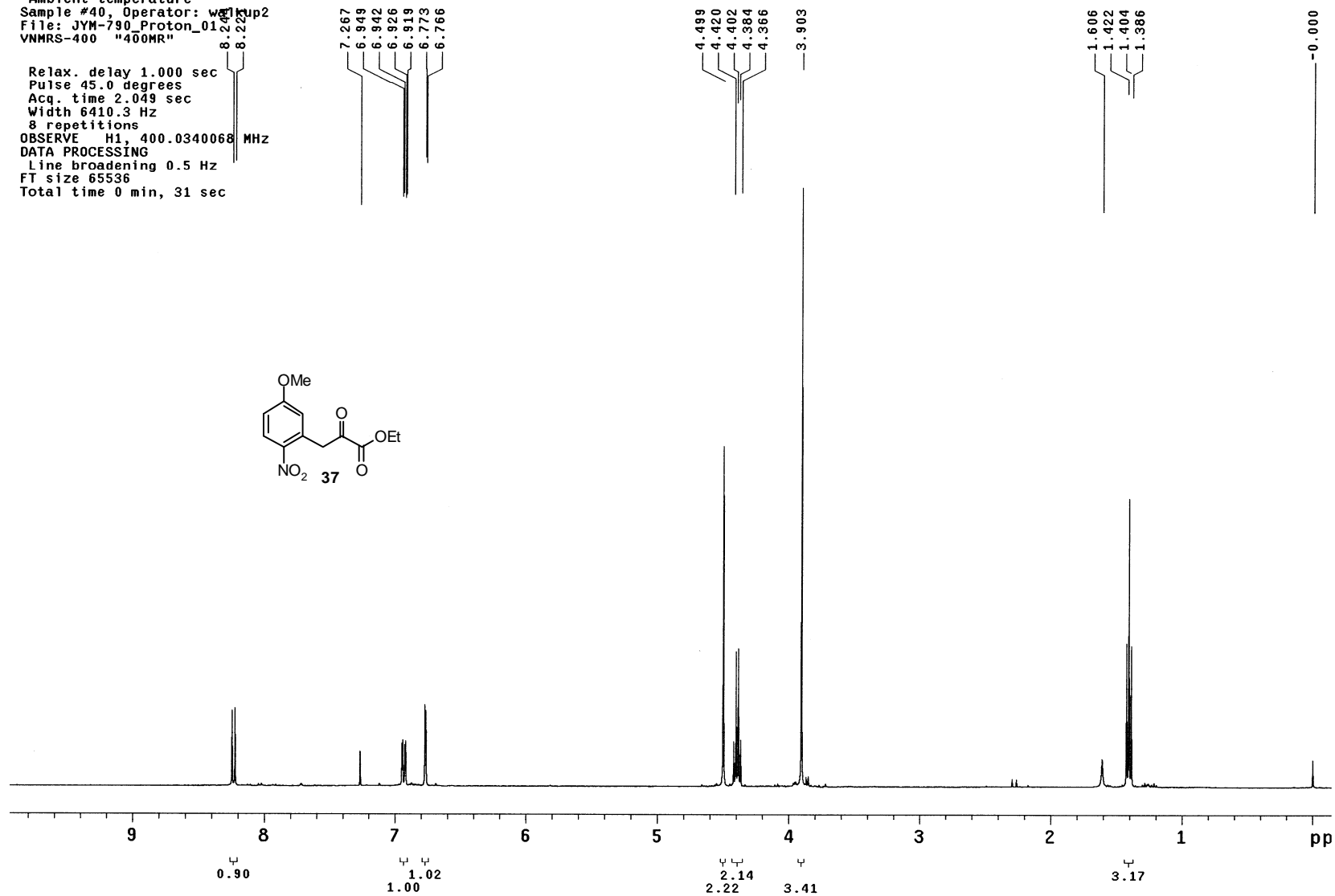
JYM-790

Sample: JYM-790
Sample ID: s_40_JYM-790_koo-4_20130816_01
File: /home/walkup2/vnmr/sys/data/koo-4/JYM-790_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #40, Operator: walkup2
File: JYM-790_Proton_01.fid
VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340068 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-790-C

Sample: JYM-790-C

Sample ID: s_49_JYM-790-C_koo-4_20130816_01

File: /home/walkup2/vnmrsys/data/koo-4/JYM-790-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13

Ambient temperature

Sample #49, Operator: walkup2

File: JYM-790-C_Carbon_01

VNMRS-400 "400MR"

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 24509.8 Hz

256 repetitions

OBSERVE C13, 100.5886350 MHz

DECOUPLE H1, 400.0360169 MHz

Power 42 dB

continuously on

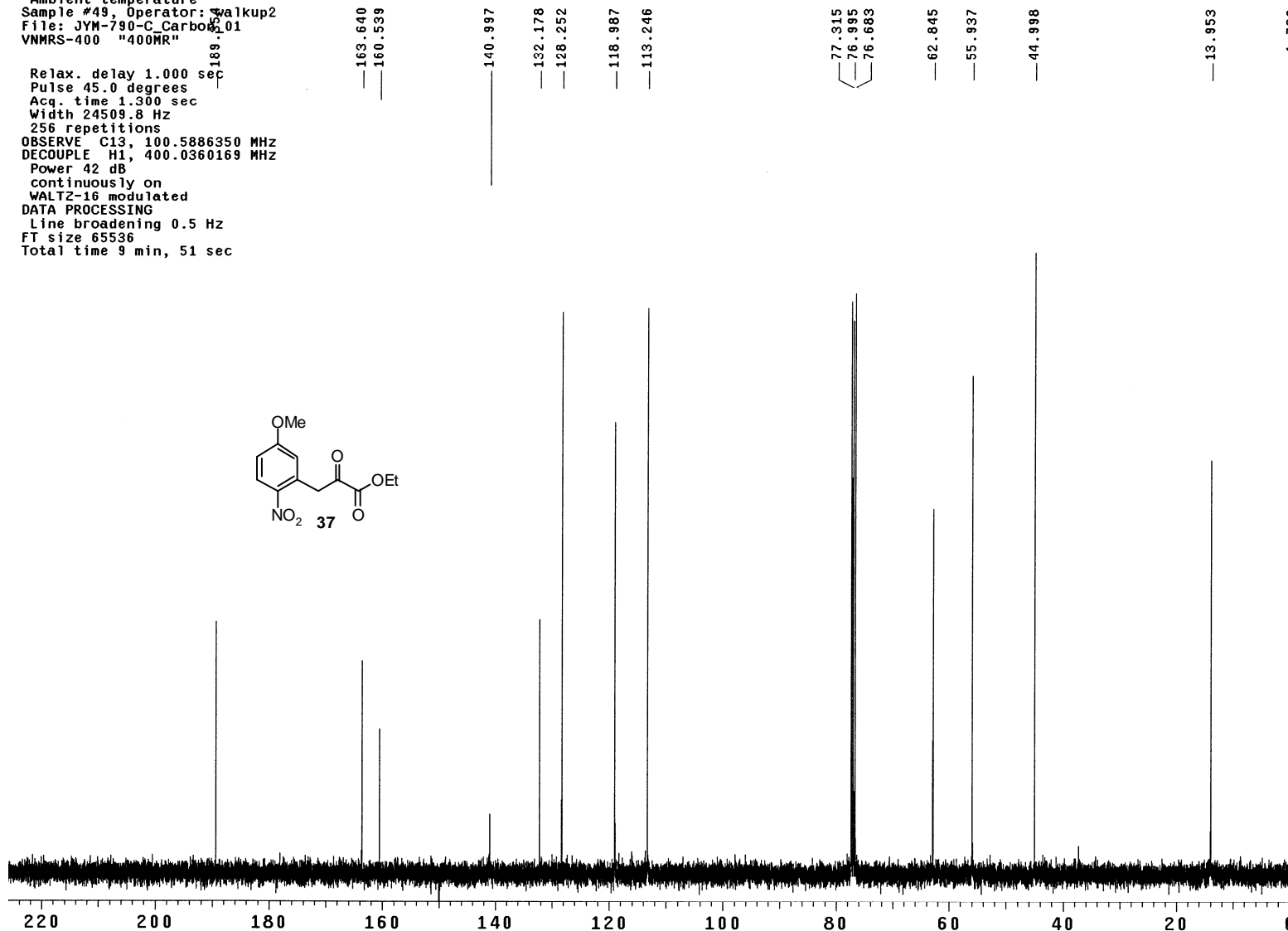
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 9 min, 51 sec

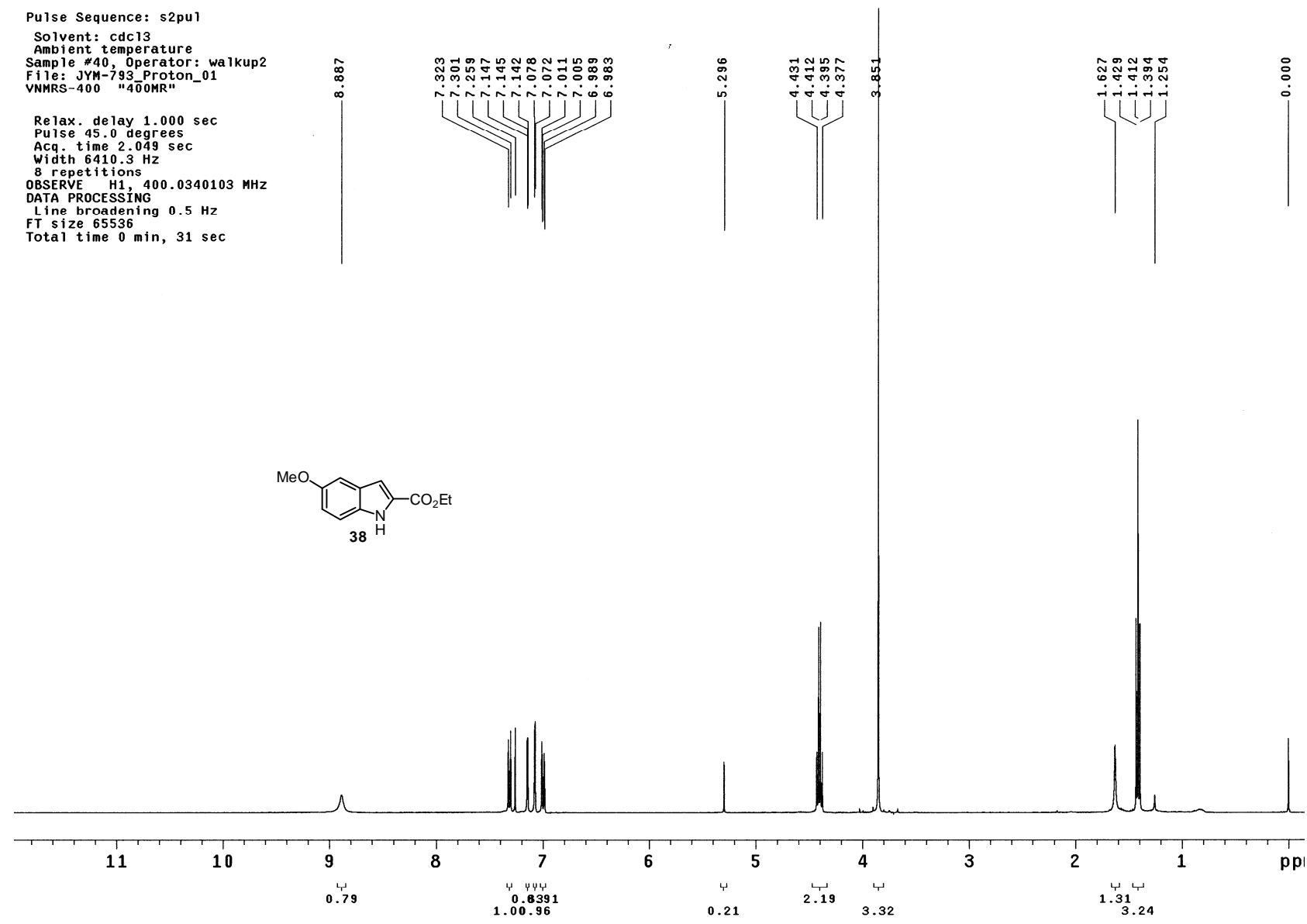


JYM-793

Sample: JYM-793
Sample ID: s_40_JYM-793_koo-2_20130821_01
File: /home/walkup2/vnmrsys/data/koo-2/JYM-793_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdcl3
Ambient temperature
Sample #40, Operator: walkup2
File: JYM-793_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340103 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-793-C

Sample: JYM-793-C

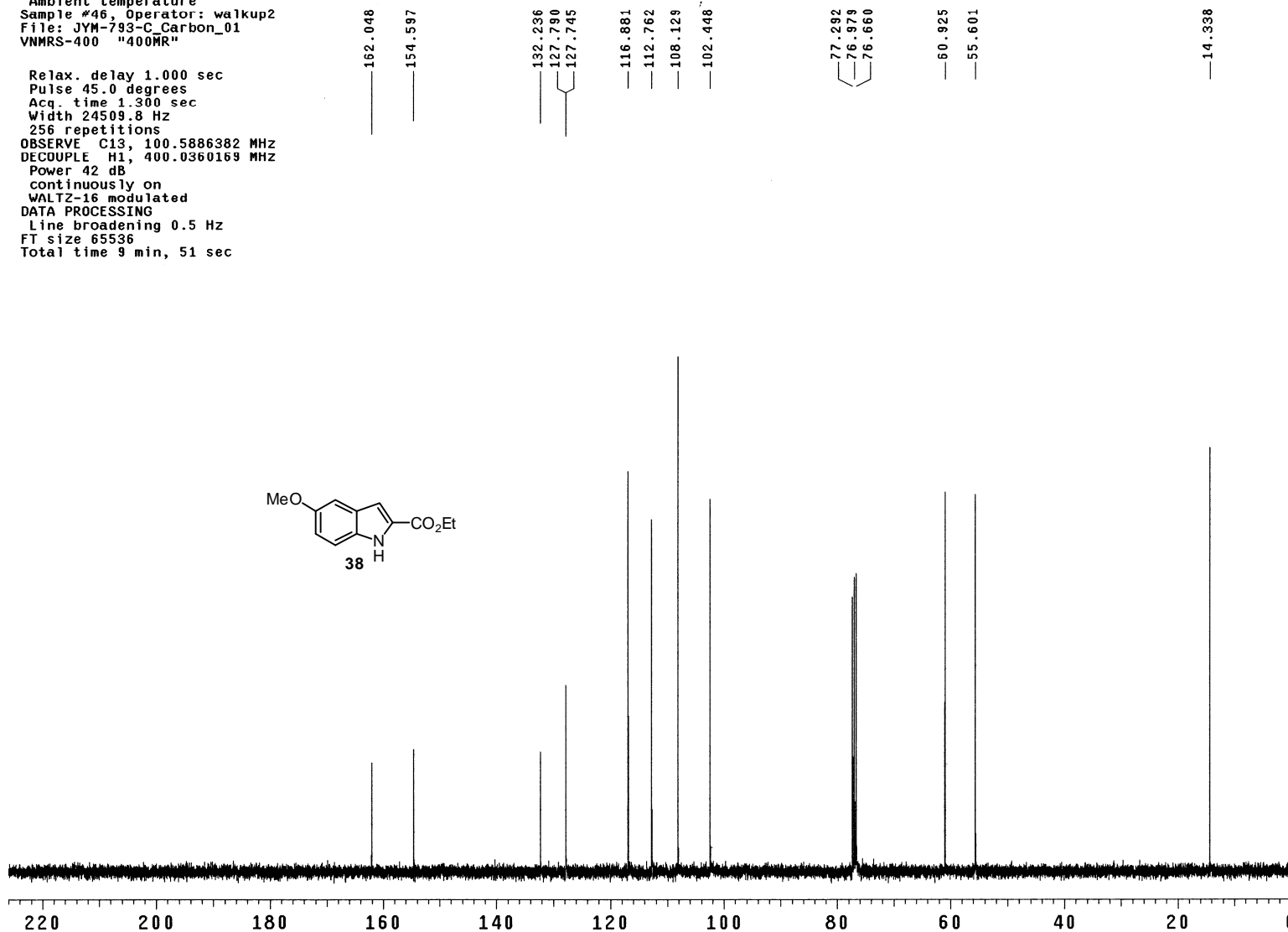
Sample ID: s_46_JYM-793-C_koo-4_20130822_01

File: /home/walkup2/vnmrSYS/data/koo-4/JYM-793-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #46, Operator: walkup2
File: JYM-793-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
256 repetitions
OBSERVE C13, 100.5886382 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 9 min, 51 sec



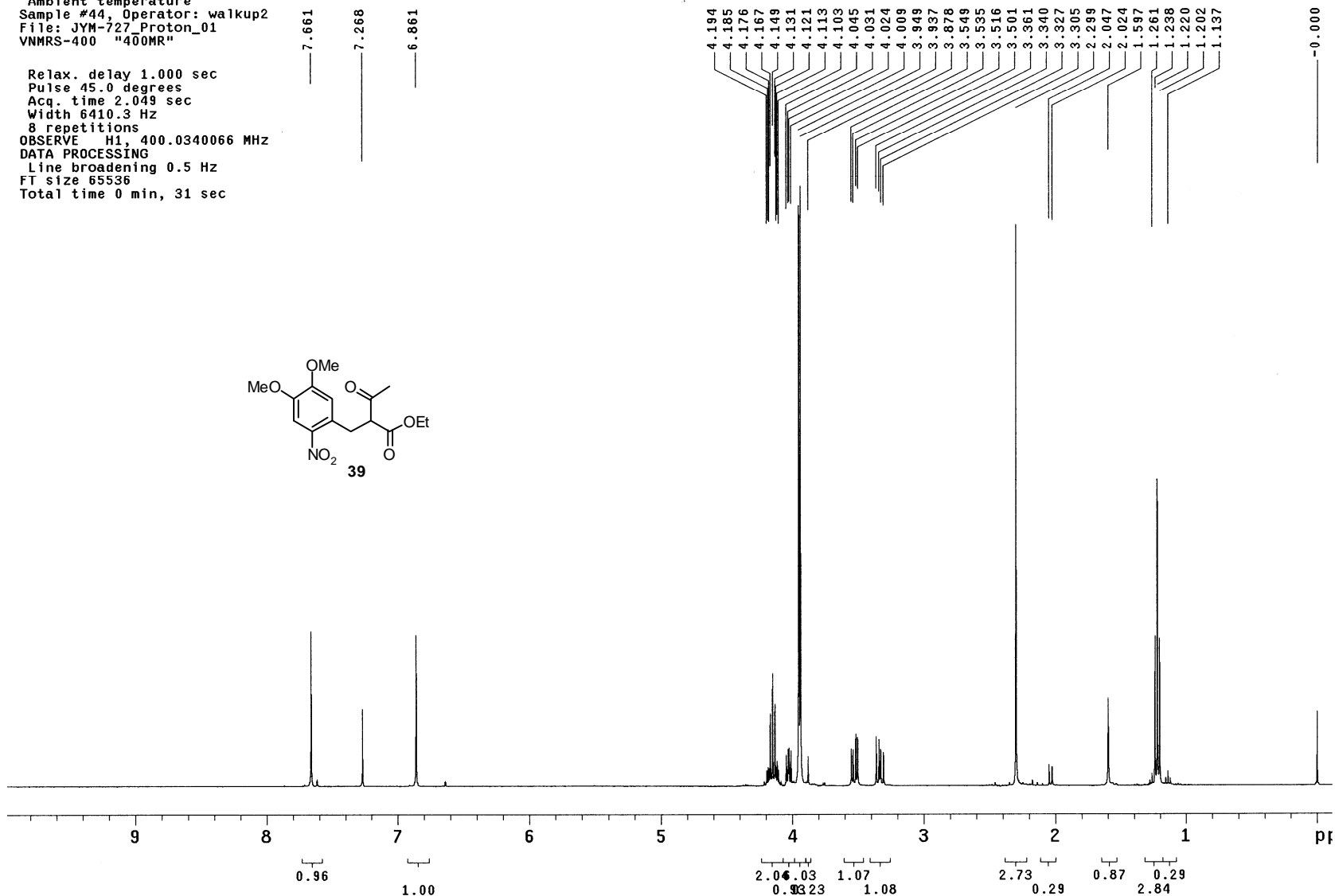
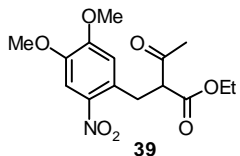
JYM-727

Sample: JYM-727
Sample ID: s_44_JYM-727_koo-4_20130716_01
File: /home/walkup2/vnmrSYS/data/koo-4/JYM-727_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdCl3
Ambient temperature
Sample #44, Operator: walkup2
File: JYM-727_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
3 repetitions
OBSERVE H1, 400.034066 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-727-C

Sample: JYM-727-C

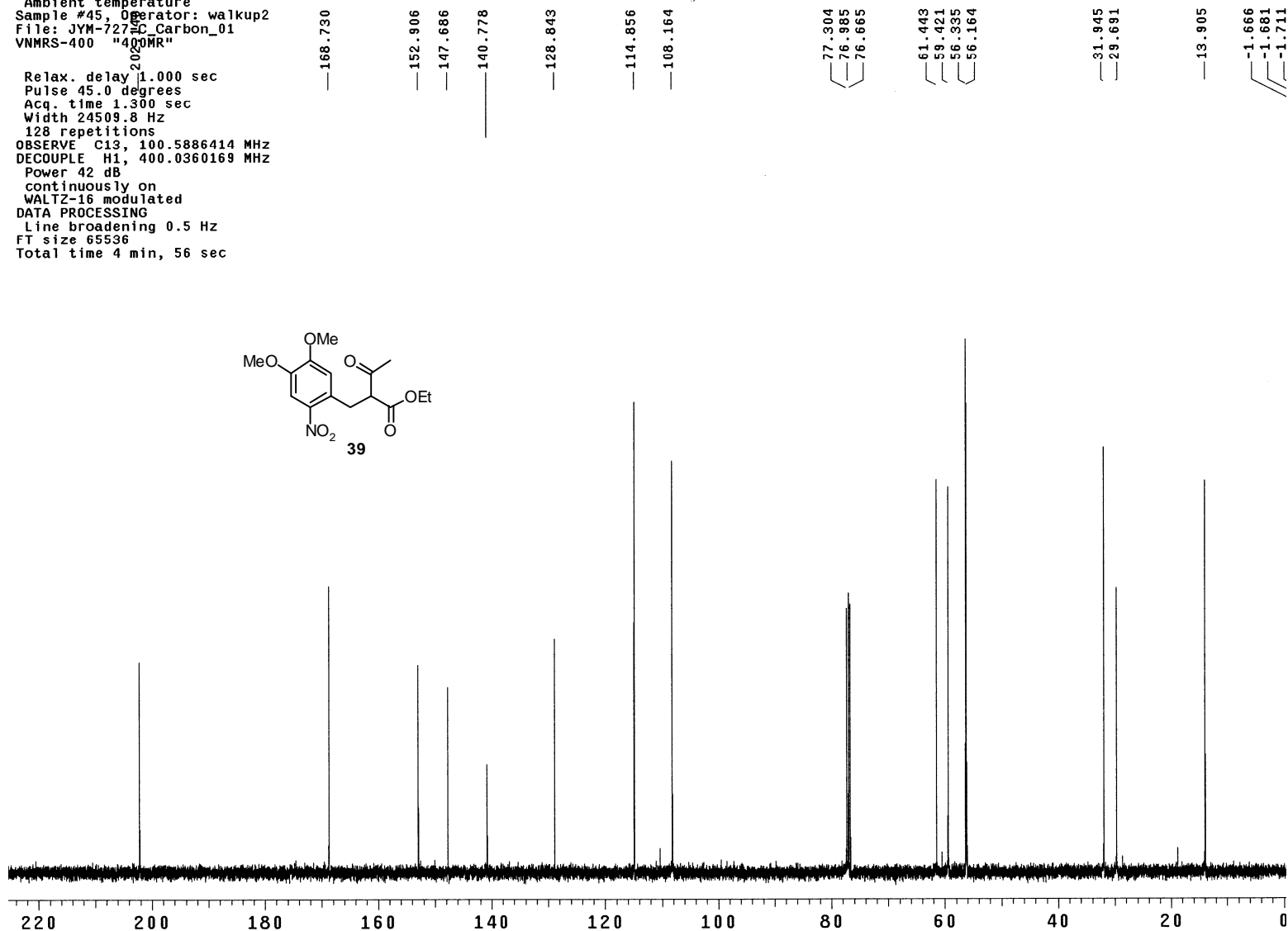
Sample ID: s_45_JYM-727-C_koo-4_20130716_01

File: /home/walkup2/vnmrSYS/data/koo-4/JYM-727-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdcl3
Ambient temperature
Sample #45, Operator: walkup2
File: JYM-727-C_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886414 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec



JYM-777-2

Sample: JYM-777-2

Sample ID: s_50_JYM-777-2_koo-4_20130809_01

File: /home/walkup2/vnmr/ys/data/koo-4/JYM-777-2_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13

Ambient temperature

Sample #50, Operator: walkup2

File: JYM-777-2_Proton_01

VNMRS-400 "400MR"

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 2.049 sec

Width 6410.3 Hz

8 repetitions

OBSERVE H1, 400.0340052 MHz

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

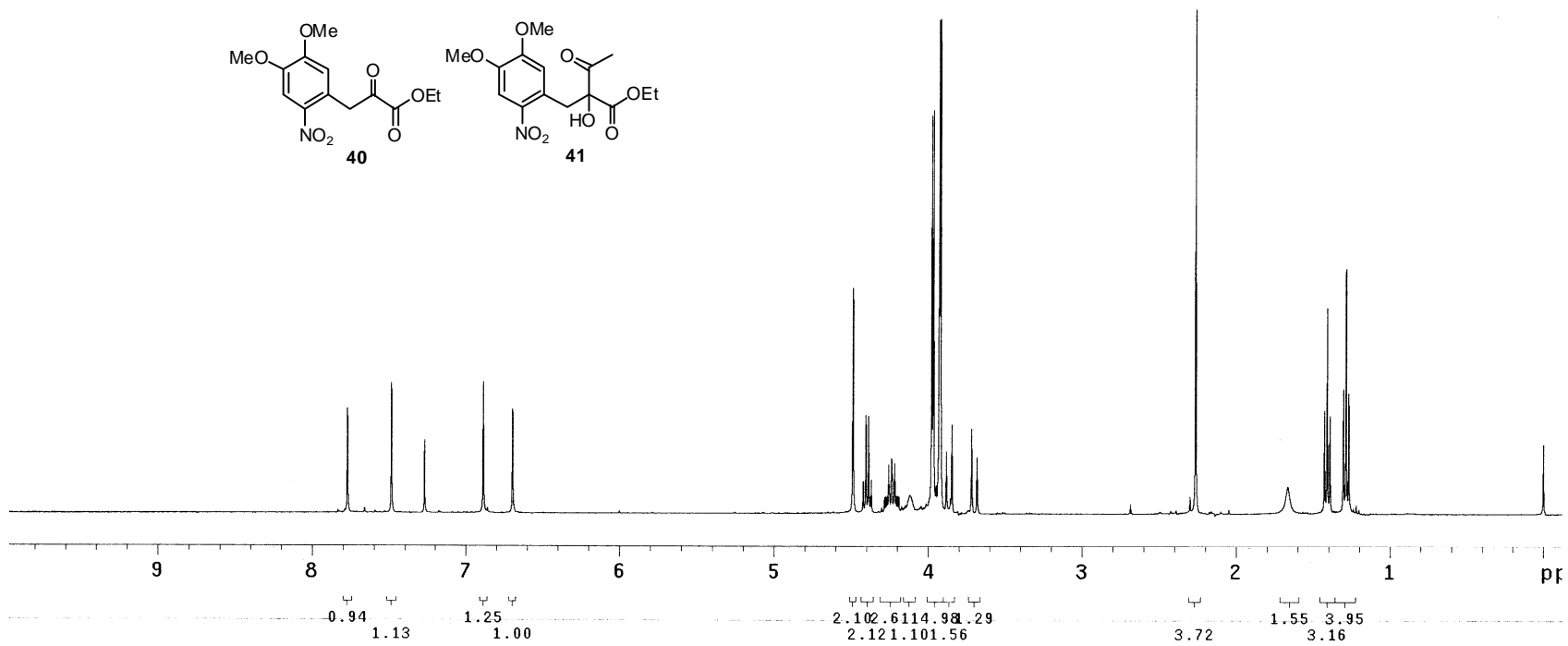
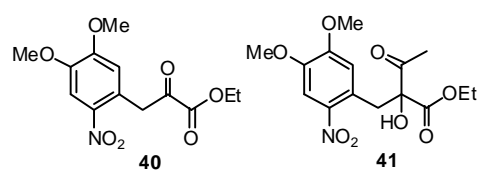
Total time 0 min, 31 sec

7.770
7.485
7.270
6.886
6.696

4.488
4.422
4.404
4.386
4.368
4.256
4.252
4.238
4.234
4.216
3.977
3.965
3.948
3.927
3.920
3.861
3.845
3.717
3.681

2.262
1.664
1.426
1.408
1.390
1.303
1.285
1.268

0.000



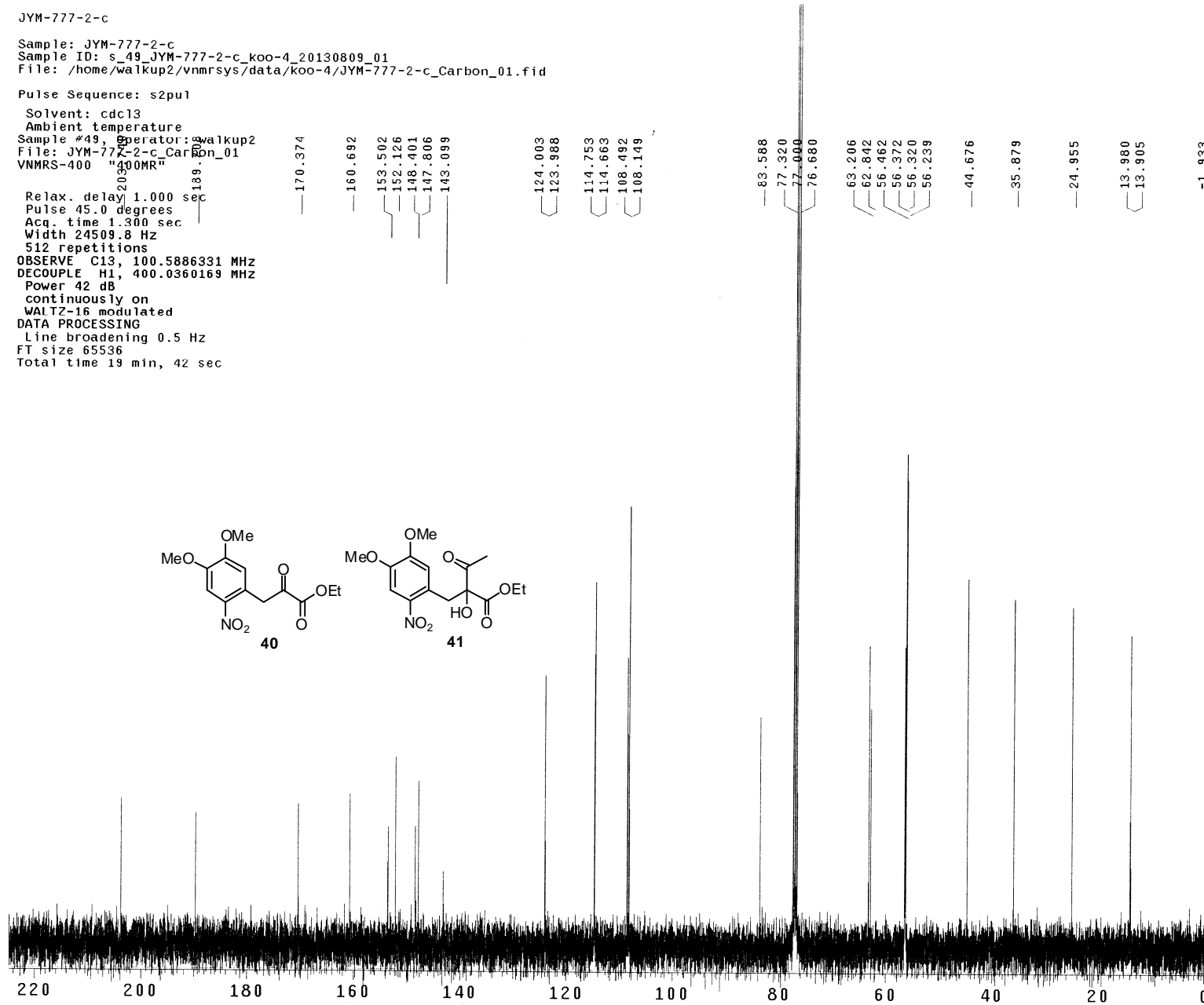
JYM-777-2-c

Sample: JYM-777-2-c
Sample ID: s_49_JYM-777-2-c_koo-4_20130809_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-777-2-c_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #49, Operator: walkup2
File: JYM-777-2-c_Carbon_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886331 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec



JYM-782-1

Sample: JYM-782-1

Sample ID: s_46_JYM-782-1_koo-4_20130812_01

File: /home/walkup2/vnmrsys/data/koo-4/JYM-782-1_Proton_01.fid

Pulse Sequence: s2pul

Solvent: cdcl3

Ambient temperature

Sample #46, Operator: walkup2

File: JYM-782-1_Proton_01

VNMR-400 "400MR"

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 2.049 sec

Width 6410.3 Hz

8 repetitions

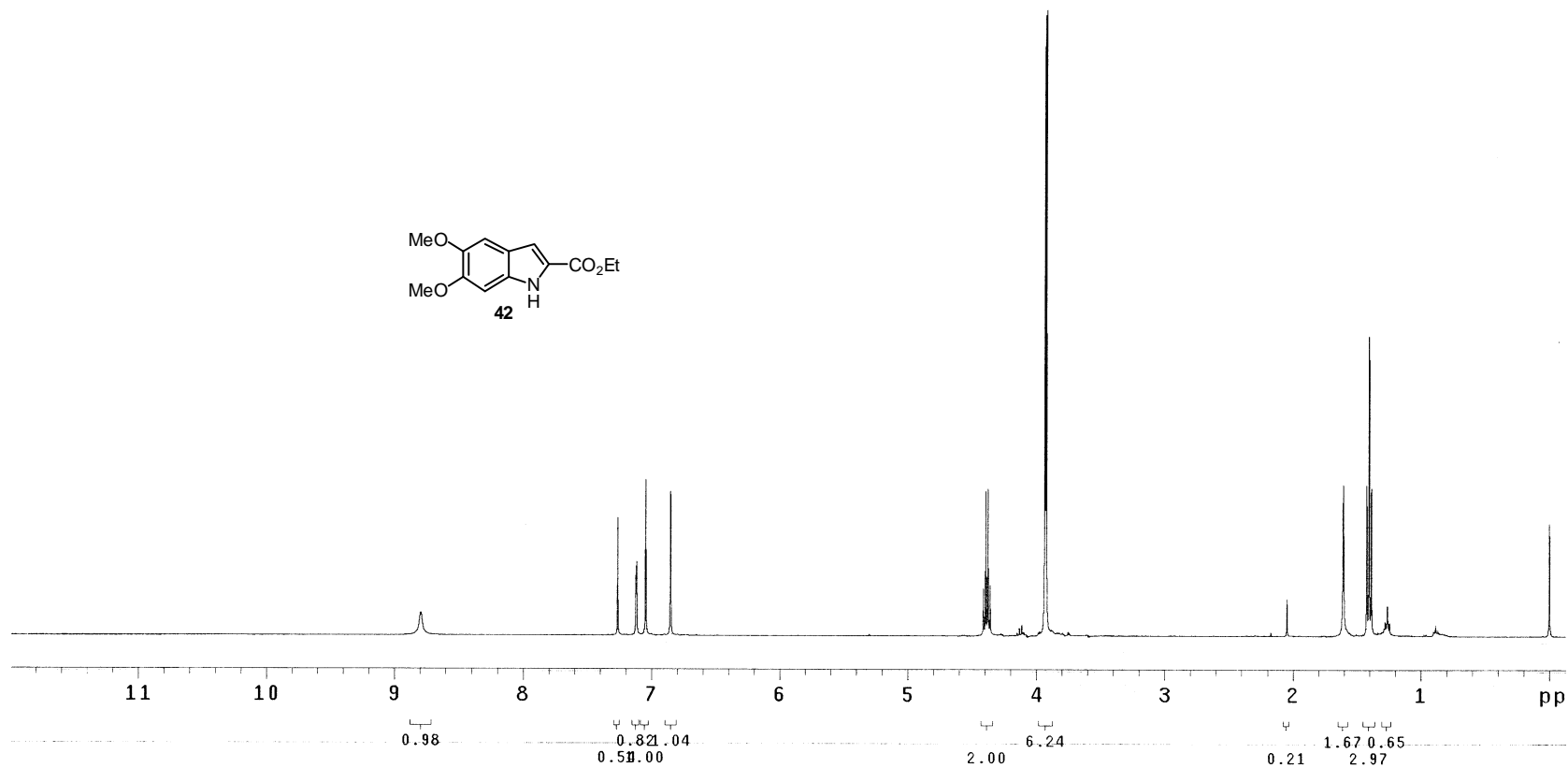
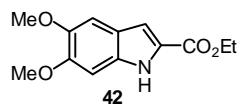
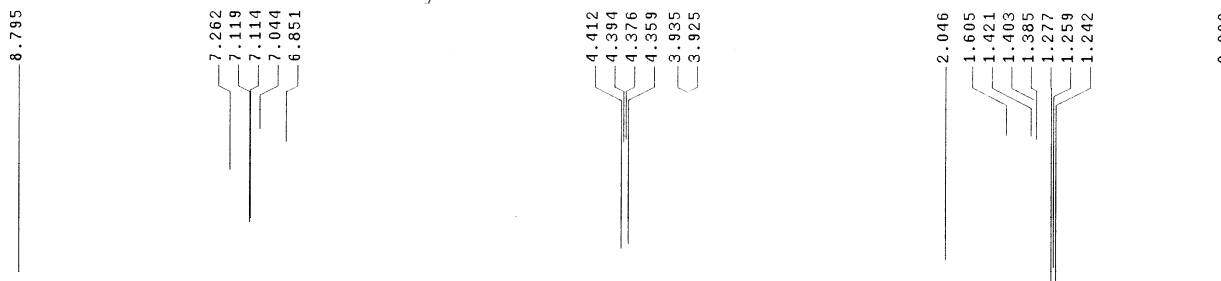
OBSERVE H1, 400.0340088 MHz

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 0 min, 31 sec



JYM-782-1-C

Sample: JYM-782-1-C

Sample ID: s_45_JYM-782-1-C_koo-4_20130812_01

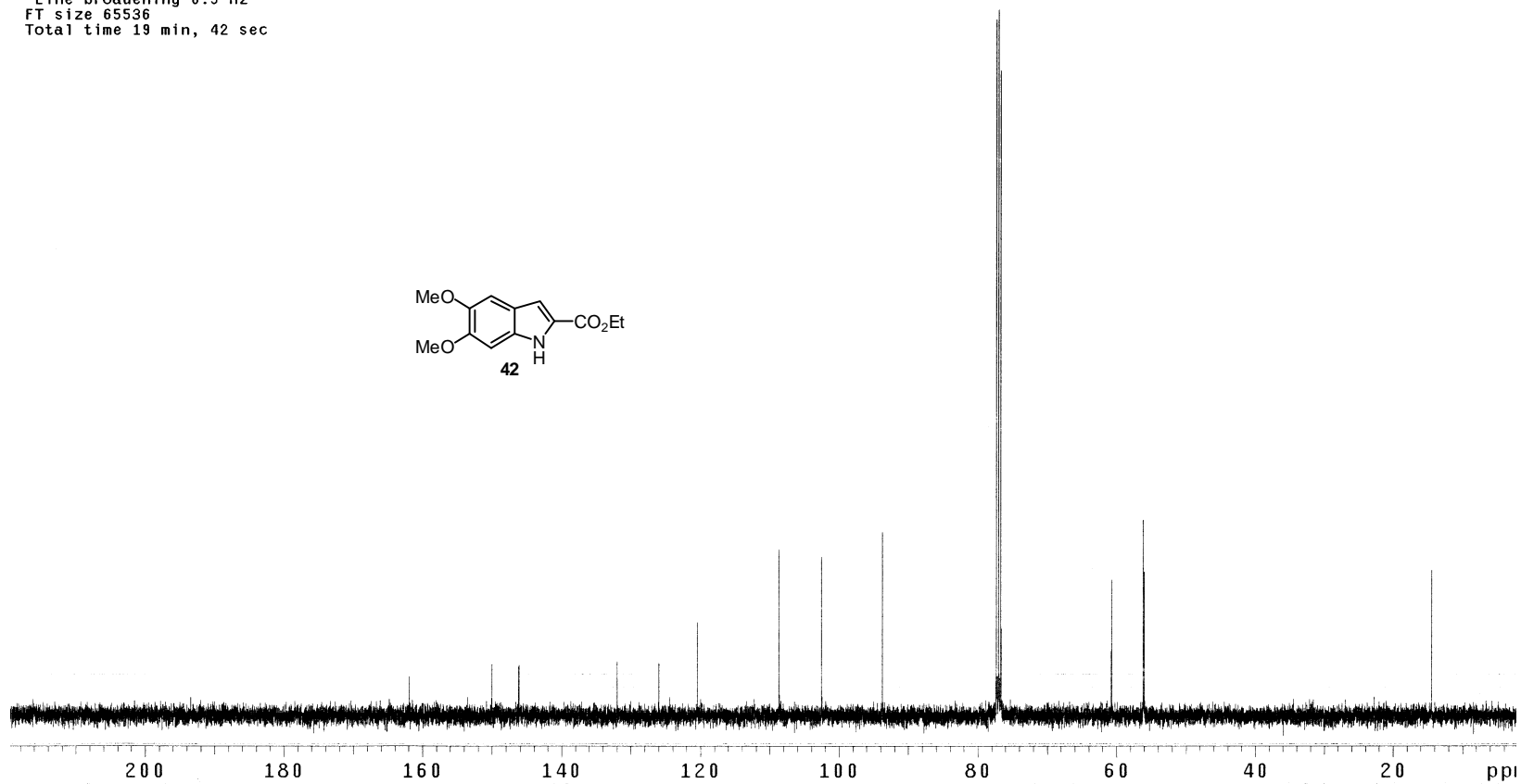
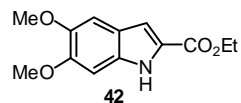
File: /home/walkup2/vnmrsvs/data/koo-4/JYM-782-1-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdcl3
Ambient temperature
Sample #45, Operator: walkup2
File: JYM-782-1-C_Carbon_01
VNMRS-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886325 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec

161.873
150.028
146.139
131.965
125.950
120.425
108.661
102.511
93.744
77.318
76.998
76.679
60.684
56.125
56.014
14.439

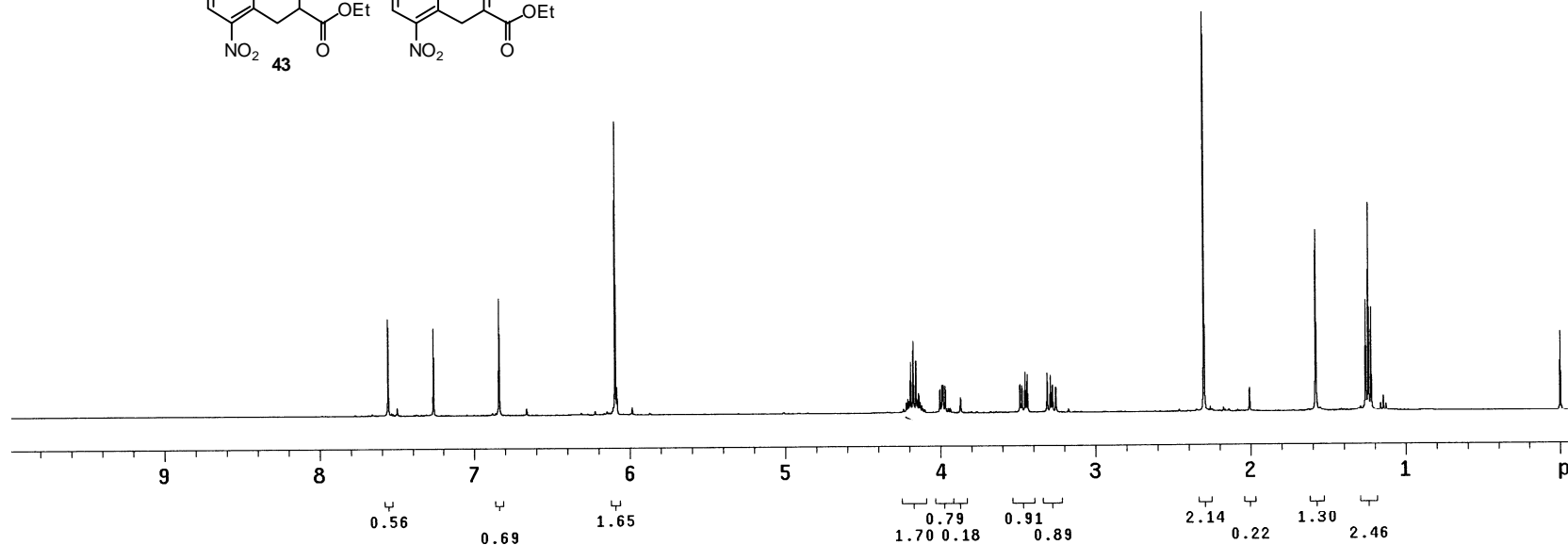
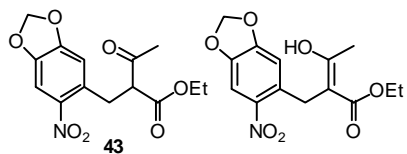
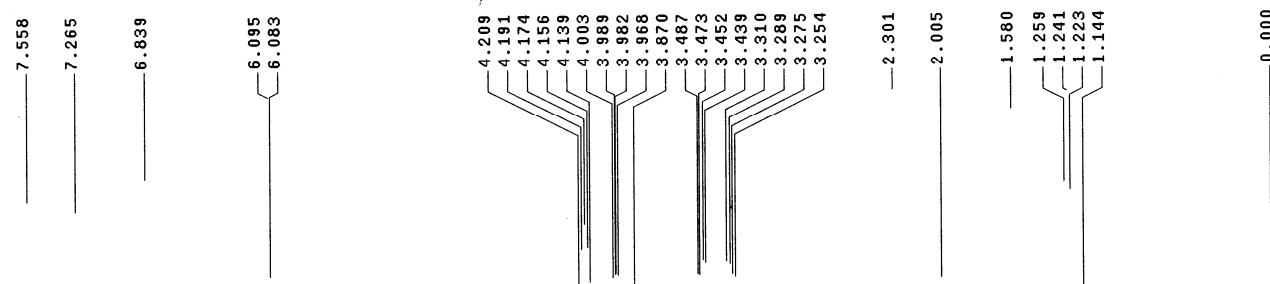


JYM-729

Sample: JYM-729
Sample ID: s_48_JYM-729_koo-4_20130717_01
File: /home/walkup2/vnmrfsys/data/koo-4/JYM-729_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #48, Operator: walkup2
File: JYM-729_Proton_01
VNMR-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340082 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-729-C

Sample: JYM-729-C

Sample ID: s_46_JYM-729-C_koo-4_20130717_01

File: /home/walkup2/vnmrSYS/data/koo-4/JYM-729-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdcl3
Ambient temperature
Sample #46, Operator: walkup2
File: JYM-729-C_Carbon_01
VNMR-400 "400PMR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886368 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

168.650

151.785

147.078

142.624

130.994

112.054

105.860

102.945

102.714

77.313

77.001

76.681

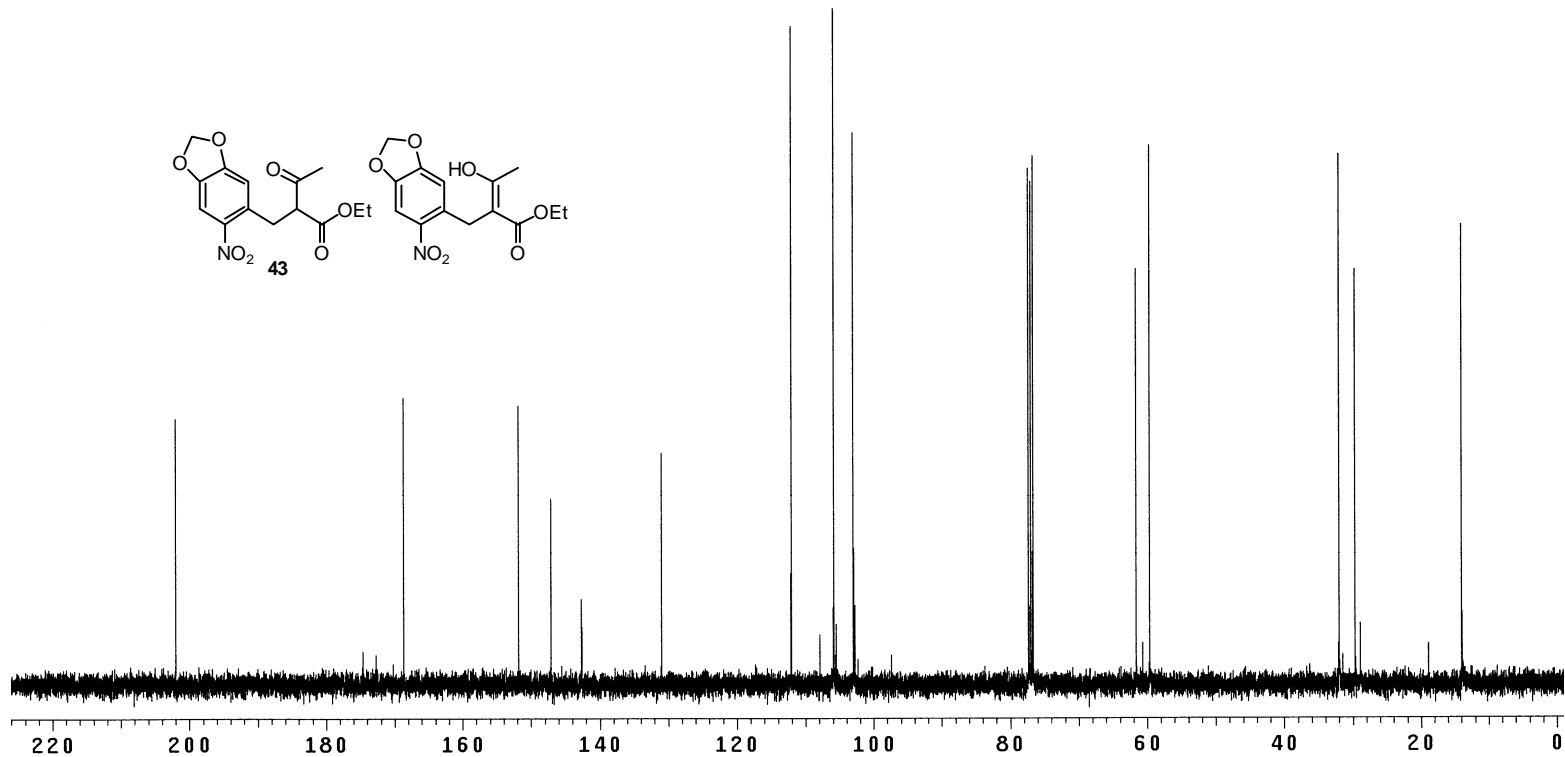
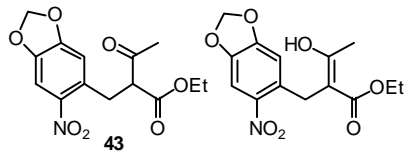
61.601

59.615

32.013

29.670

13.958



Sample: JYM-778-3
 Sample ID: s_45_JYM-778-3_koo-4_20130812_01
 File: /home/walkup2/vnmr/sys/data/koo-4/JYM-778-3_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdcl3

Ambient temperature

Sample #45, Operator: walkup

File: JYM-778-3_Proton_01.fid

VNMRS-400 "400MR"

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 2.049 sec

Width 6410.3 Hz

8 repetitions

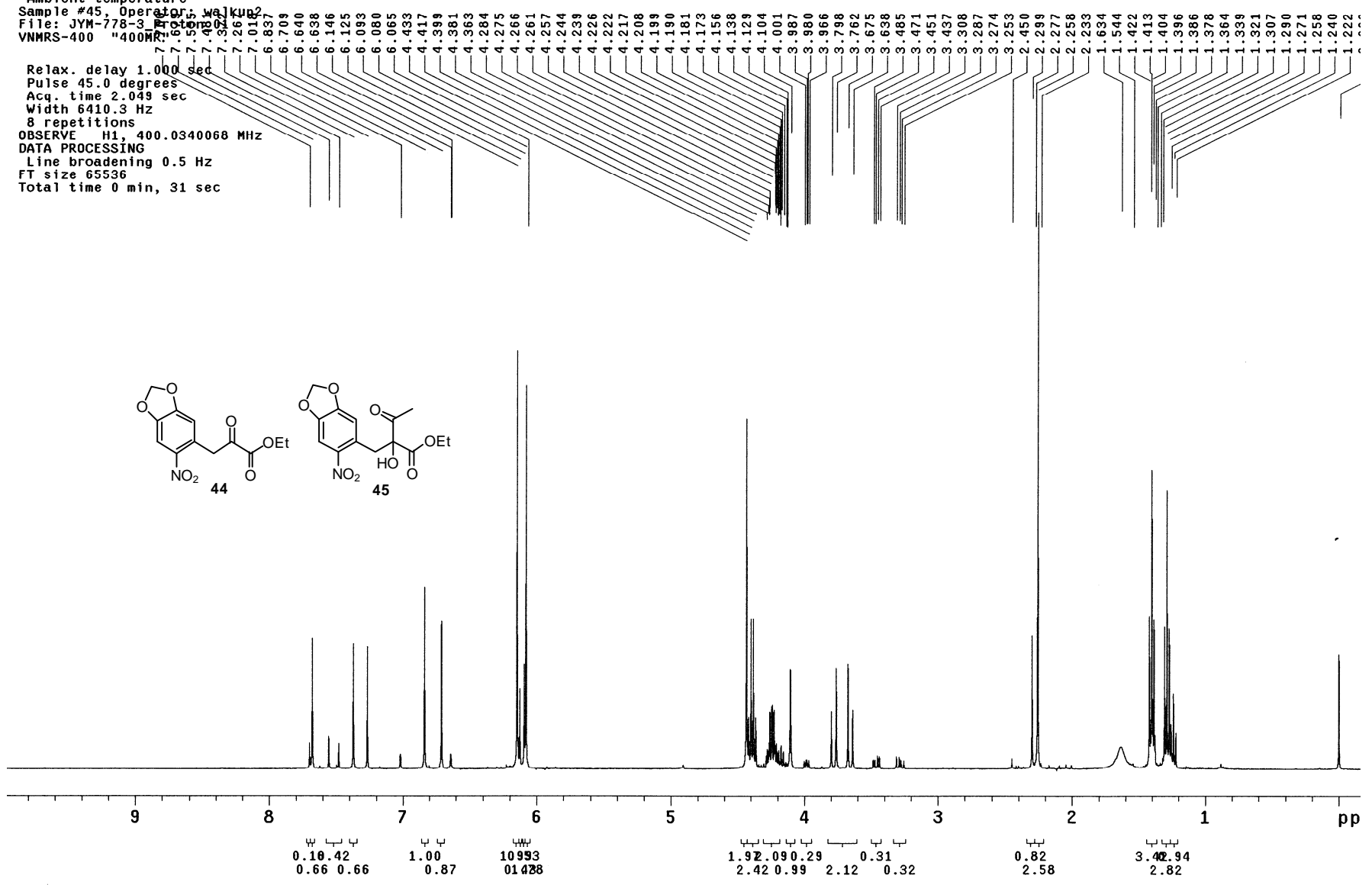
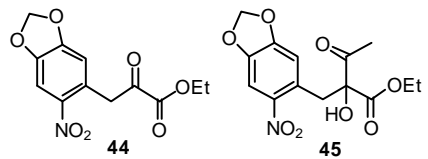
OBSERVE H1, 400.0340068 MHz

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

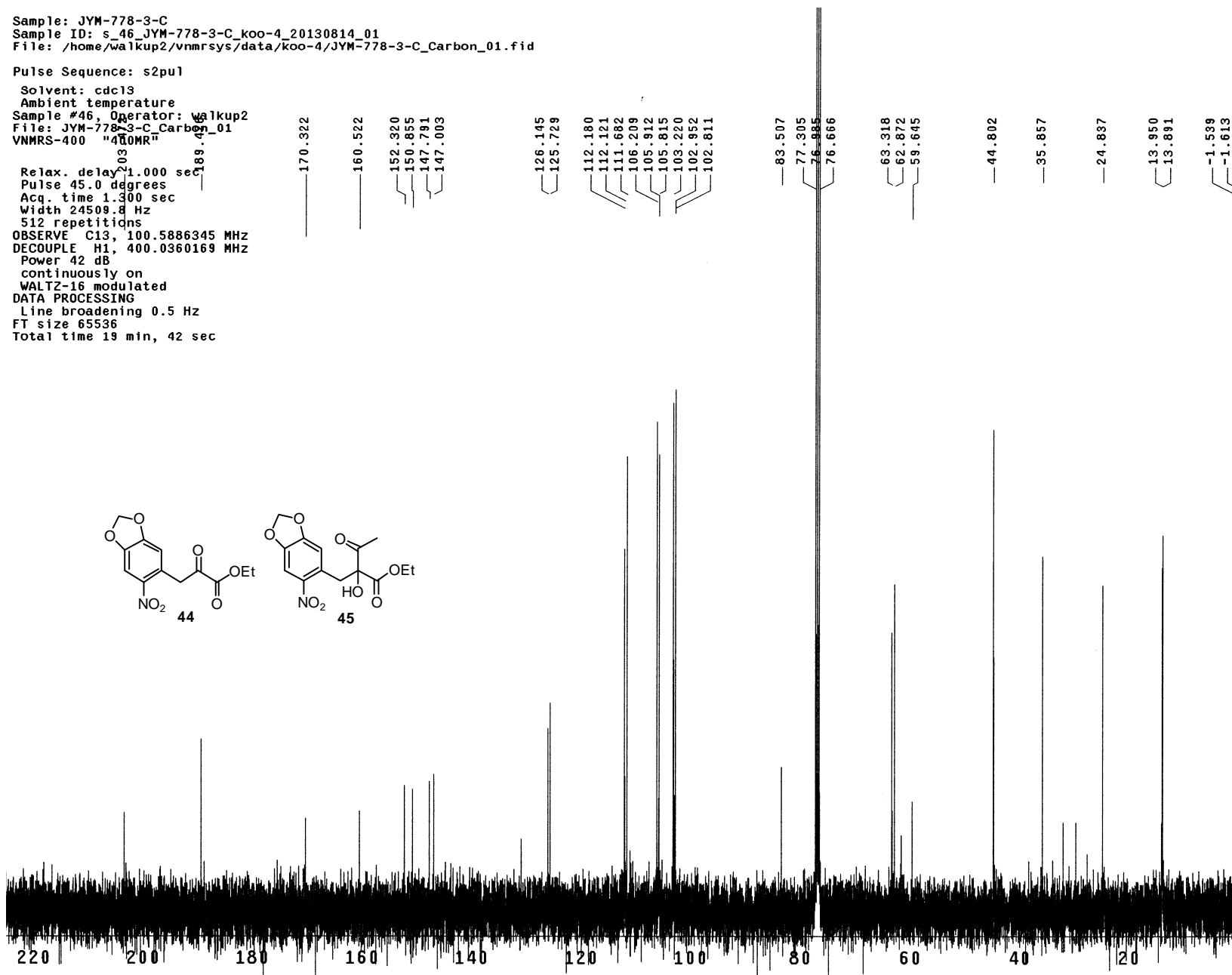
Total time 0 min, 31 sec



Sample: JYM-778-3-C
 Sample ID: s_46_JYM-778-3-C_koo-4_20130814_01
 File: /home/walkup2/vnmrsys/data/koo-4/JYM-778-3-C_Carbon_01.fid

Pulse Sequence: s2pu1
 Solvent: cdc13
 Ambient temperature
 Sample #46 Operator: walkup2
 File: JYM-778-3-C_Carbon_01
 VNMRS-400 "400MR"

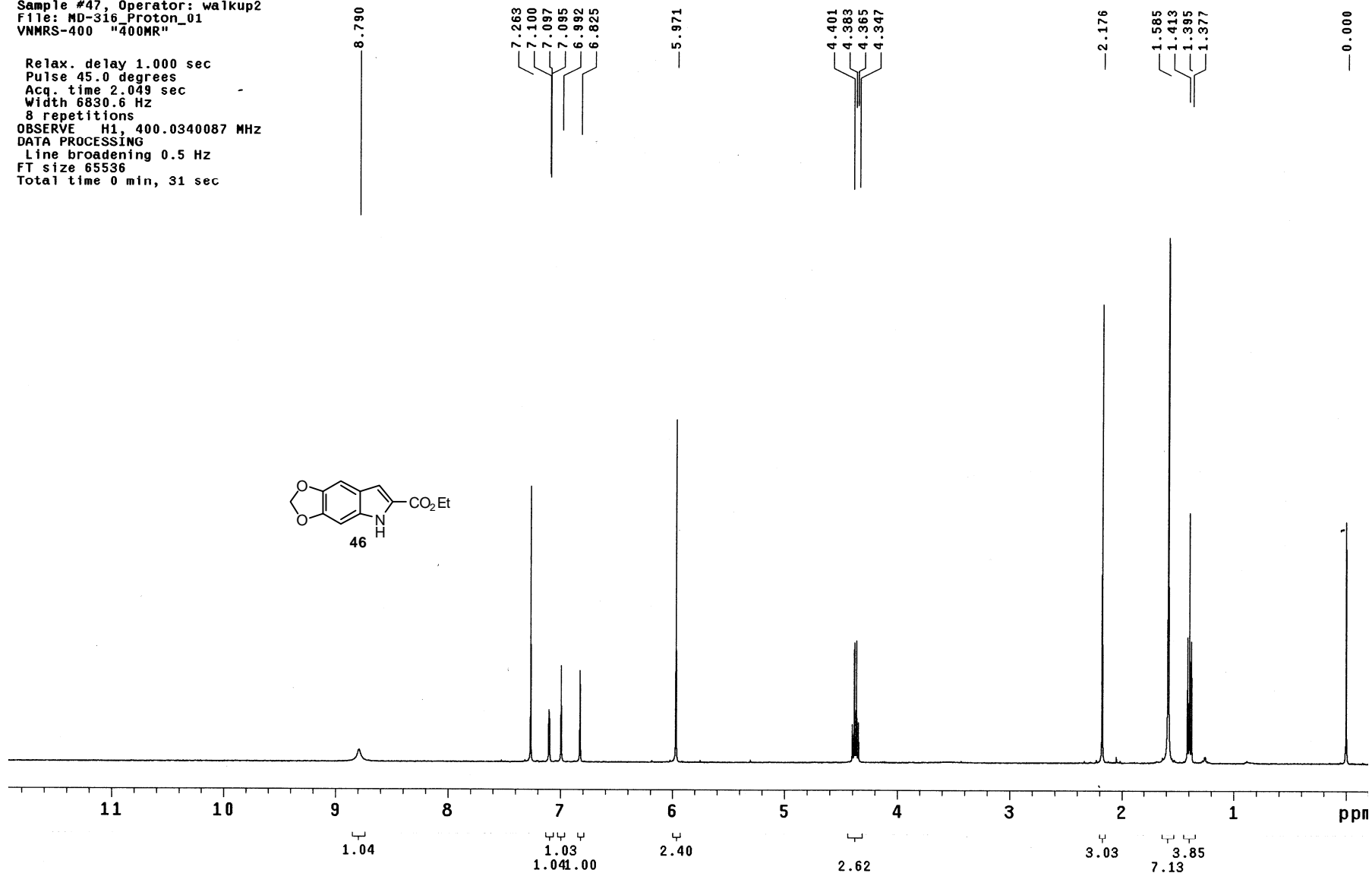
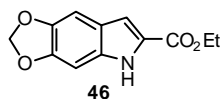
Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 1.300 sec
 Width 24509.8 Hz
 512 repetitions
 OBSERVE C13, 100.5886345 MHz
 DECOUPLE H1, 400.0360169 MHz
 Power 42 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 65536
 Total time 19 min, 42 sec



Sample: MD-316
Sample ID: s_47_MD-316_koo-4_20140630_01
File: /home/walkup2/vnmrsys/data/koo-4/MD-316_Proton_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #47, Operator: walkup2
File: MD-316_Proton_01
VNMR5-400 "400MR"

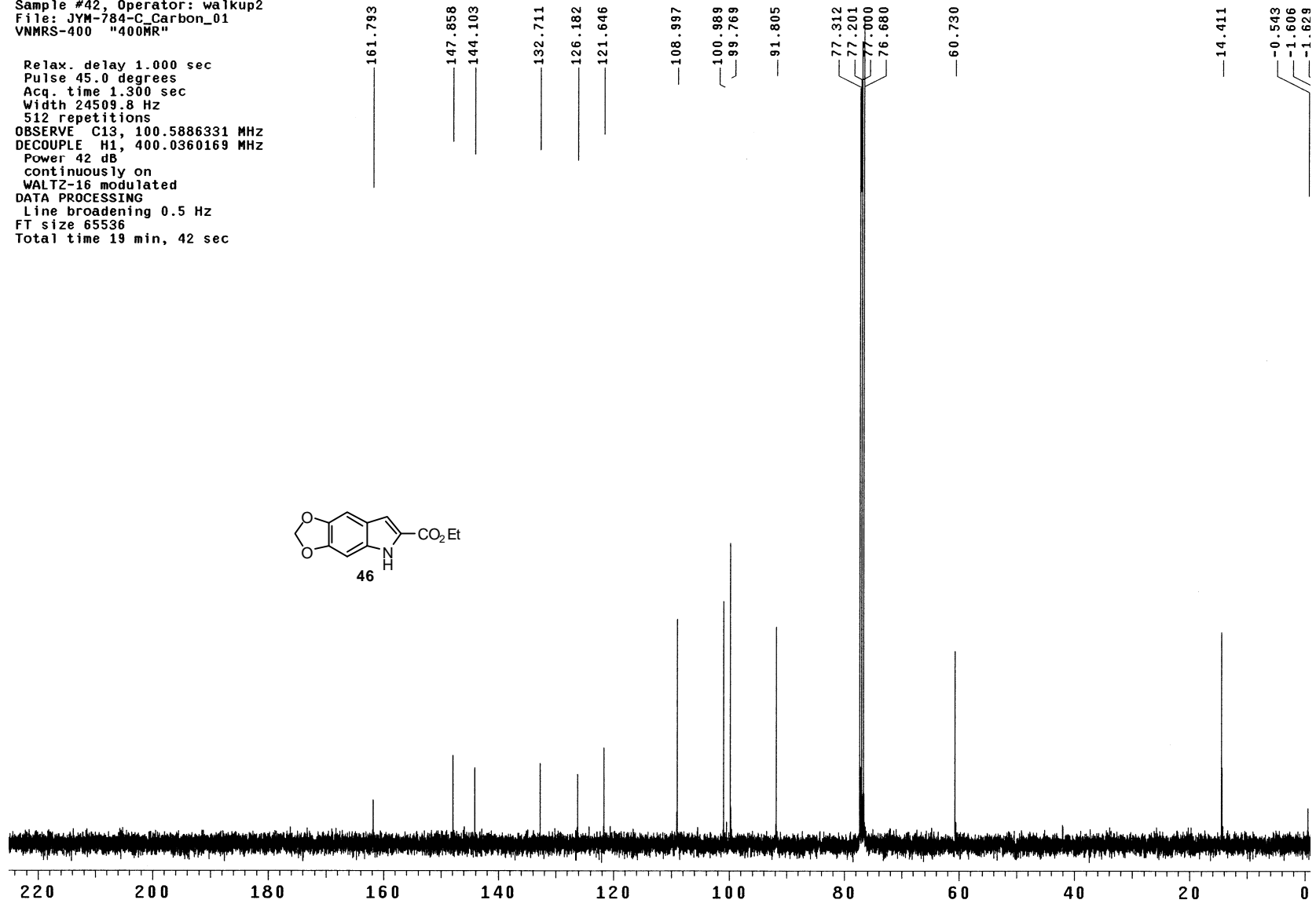
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6830.6 Hz
8 repetitions
OBSERVE H1, 400.0340087 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



Sample: JYM-784-C
Sample ID: s_42_JYM-784-C_koo-2_20130813_01
File: /home/walkup2/vnmrSYS/data/koo-2/JYM-784-C_Carbon_01.fid

Pulse Sequence: s2pu1
Solvent: cdc13
Ambient temperature
Sample #42, Operator: walkup2
File: JYM-784-C_Carbon_01
VNMR5-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
512 repetitions
OBSERVE C13, 100.5886331 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min, 42 sec



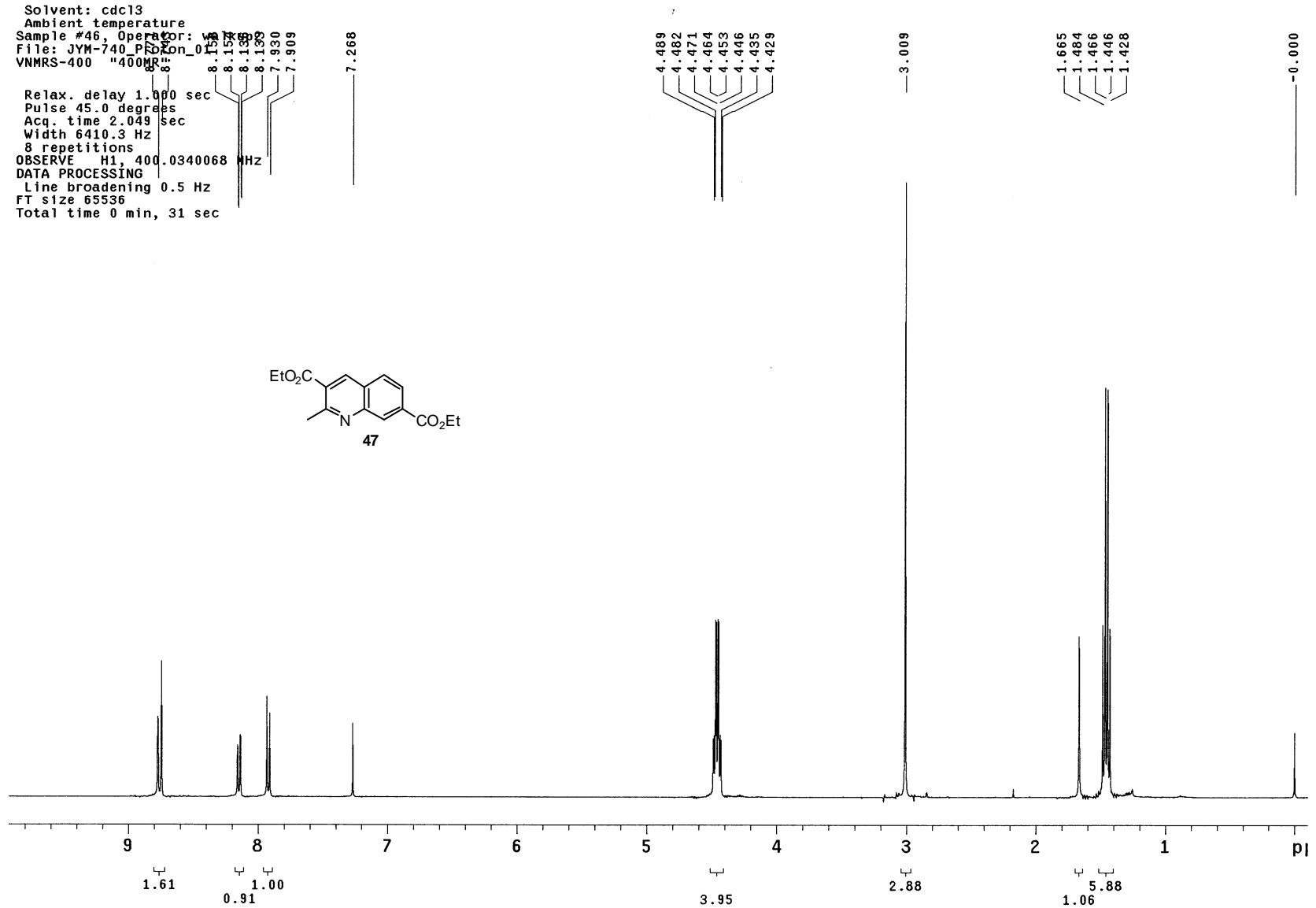
JYM-740

Sample: JYM-740
Sample ID: s_46_JYM-740_koo-4_20130722_01
File: /home/waikup2/vnmrfsys/data/koo-4/JYM-740_Proton_01.fid

Pulse Sequence: s2pu1

Solvent: cdcl3
Ambient temperature
Sample #46, Operator: w
File: JYM-740_Proton_01
VNMR-400 "400MHz"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.049 sec
Width 6410.3 Hz
8 repetitions
OBSERVE H1, 400.0340068 MHz
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 0 min, 31 sec



JYM-740-C

Sample: JYM-740-C
Sample ID: s_49_JYM-740-C_koo-4_20130722_01
File: /home/walkup2/vnmrsys/data/koo-4/JYM-740-C_Carbon_01.fid

Pulse Sequence: s2pu1

Solvent: cdc13
Ambient temperature
Sample #49, Operator: walkup2
File: JYM-740-C_Carbon_01
VNMR5-400 "400MR"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 24509.8 Hz
128 repetitions
OBSERVE C13, 100.5886335 MHz
DECOUPLE H1, 400.0360169 MHz
Power 42 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min, 56 sec

166.184
166.006
159.306
147.891
139.280
133.064
130.878
128.558
128.060
125.977
125.546
77.316
77.004
76.684
61.596
61.470
25.606
14.244

