

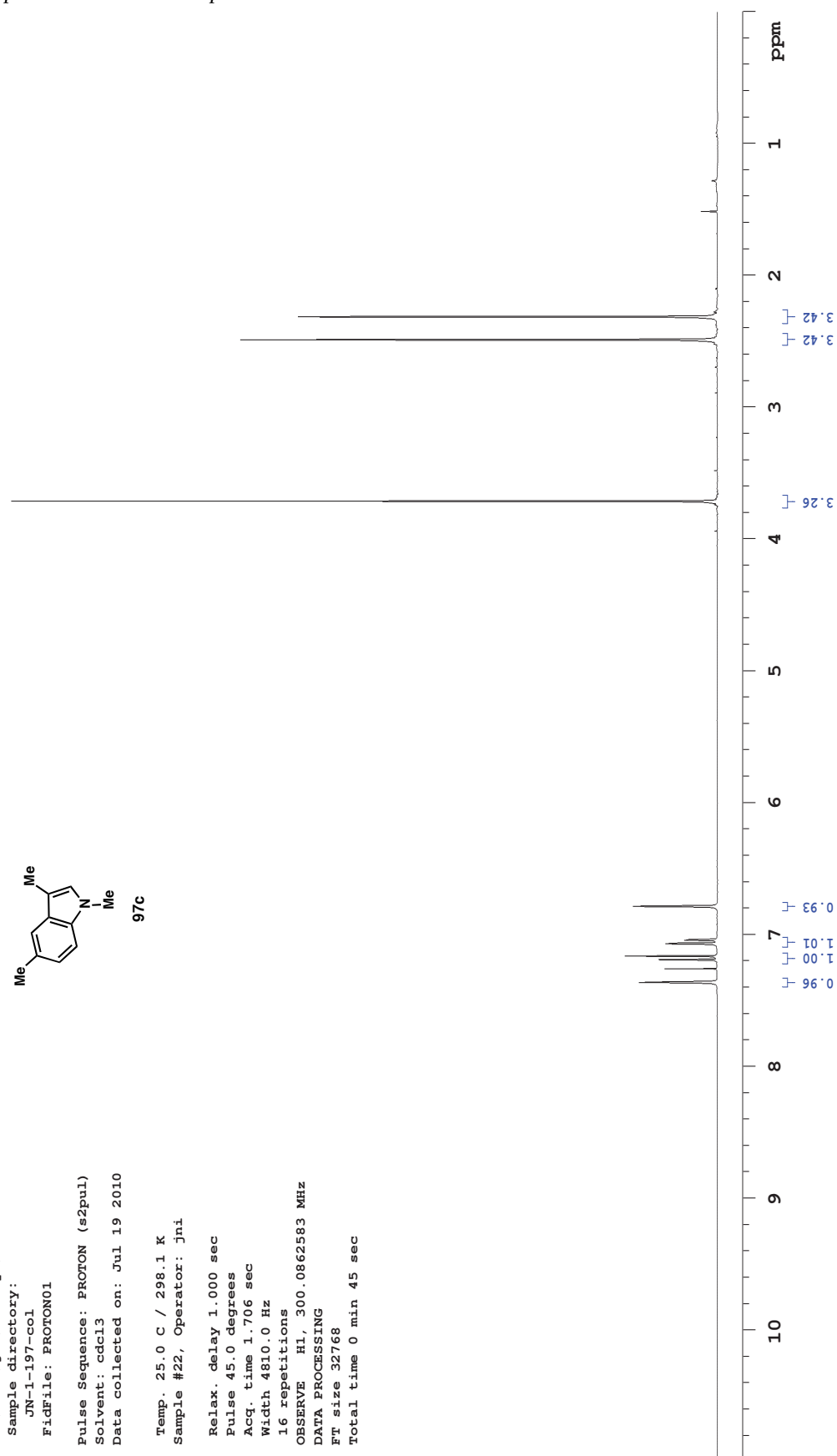
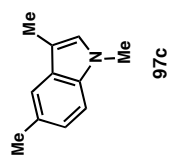
APPENDIX 1

Spectra Relevant to Chapter 2:

Enantioselective Synthesis of Pyrroloindolines by a Formal (3 + 2)

Cycloaddition

Total time 0 min 45 sec



JN-1-197

Sample Name:

JN-1-197

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/janeni/vnmrsys/data

Sample directory:

JN-1-197

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 19 2010

Temp. 25.0 C / 298.1 K

Operator: janeni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.042 sec

Width 31446.5 Hz

3200 repetitions

OBSERVE C13, 125.6602406 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

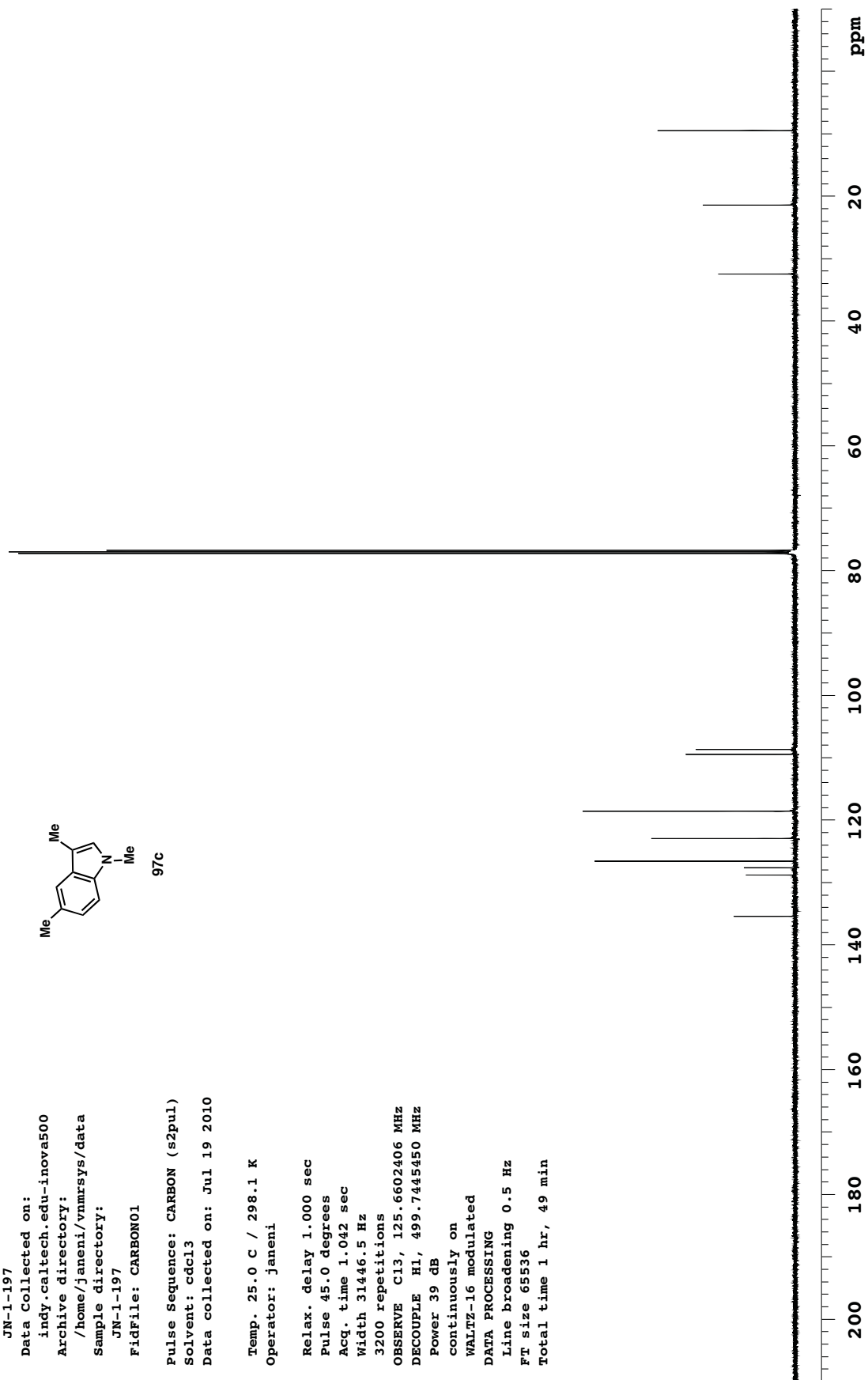
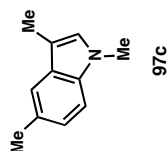
WALTZ-16 modulated

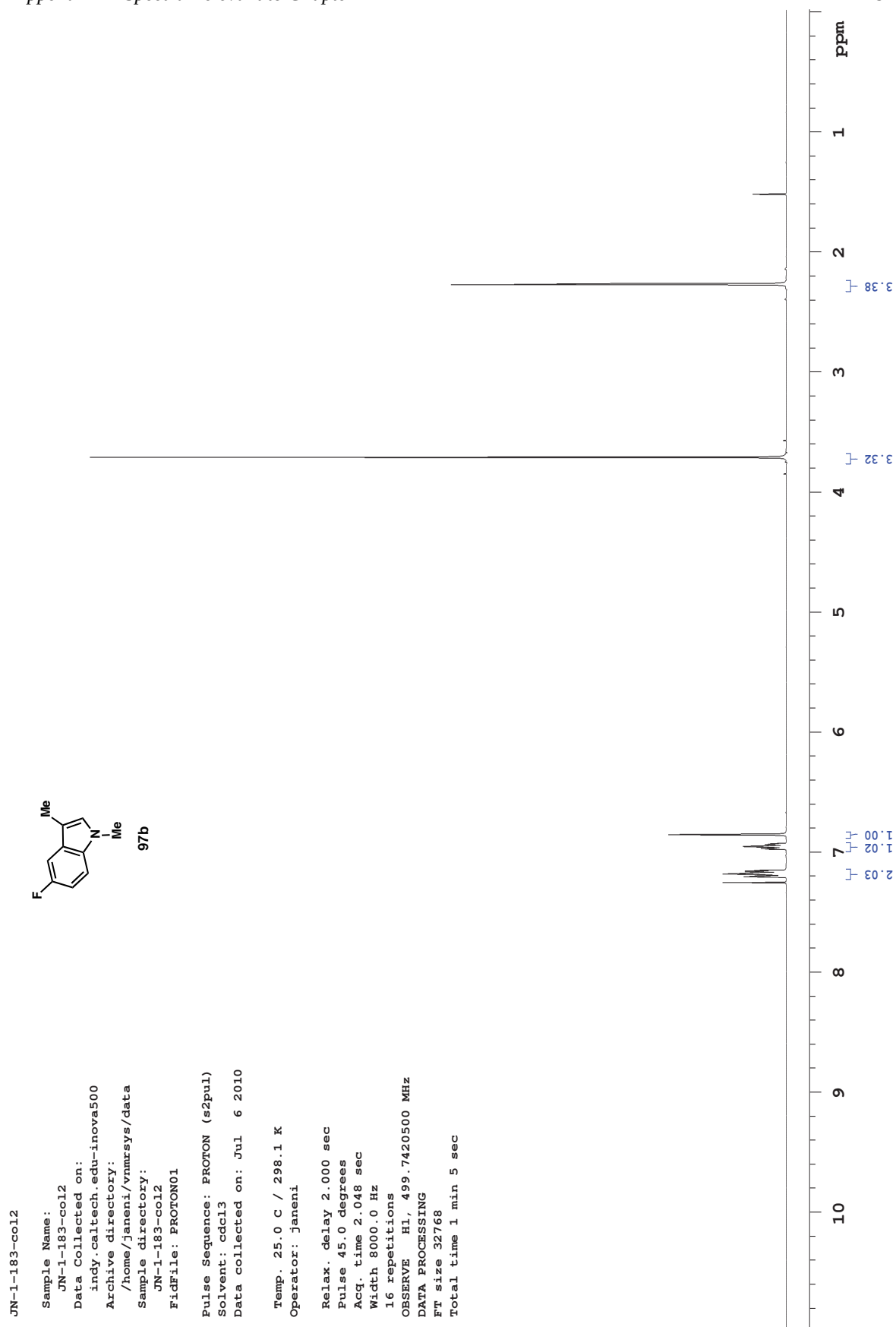
DATA PROCESSING

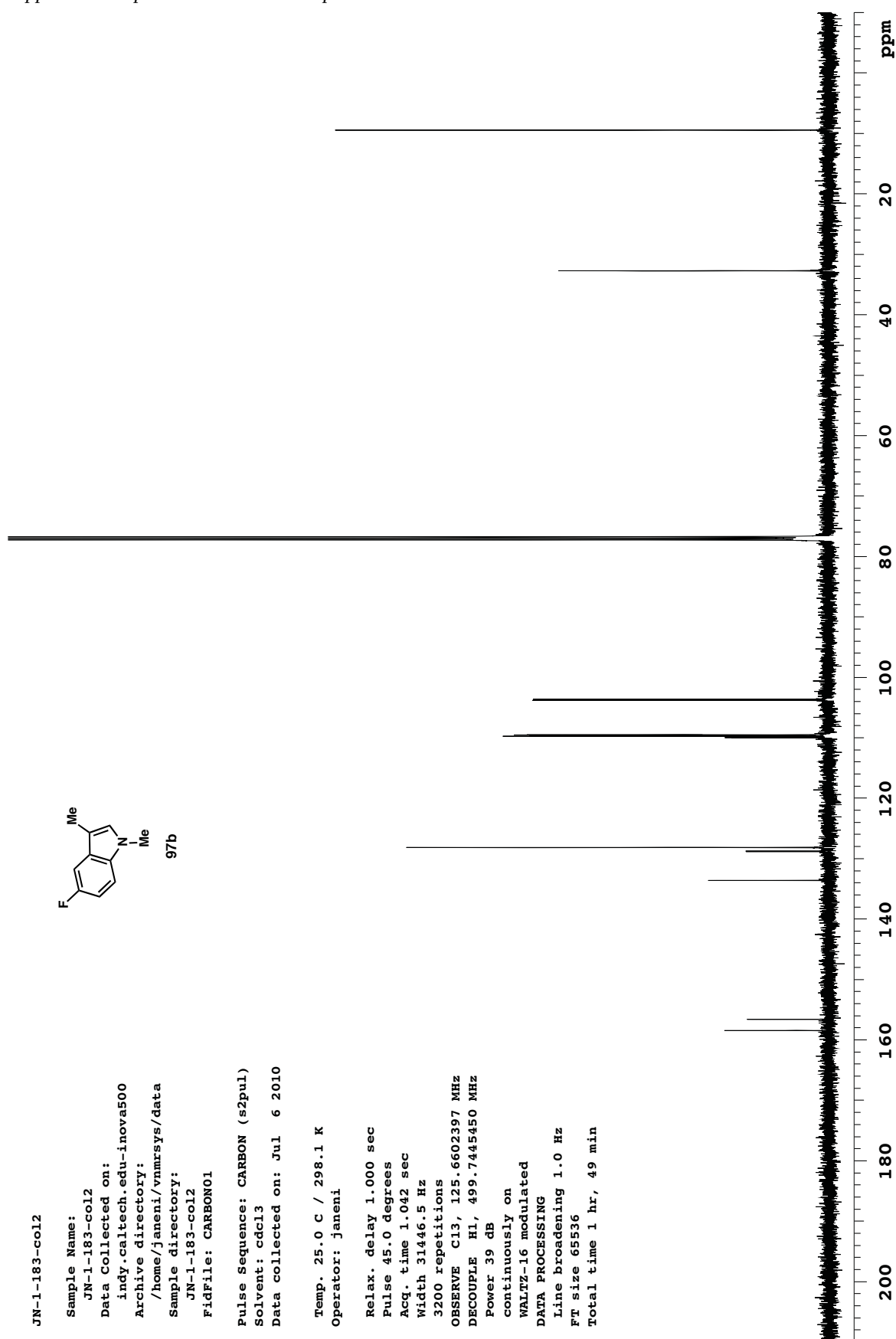
Line broadening 0.5 Hz

FT size 65536

Total time 1 hr, 49 min







JN-1-181-col

Sample Name:

JN-1-181-col

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/janeni/vnmrsys/data

Sample directory:

JN-1-181-col

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Jun 27 2010

Temp. 25.0 C / 298.1 K

Operator: janeni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 2.048 sec

Width 8000.0 Hz

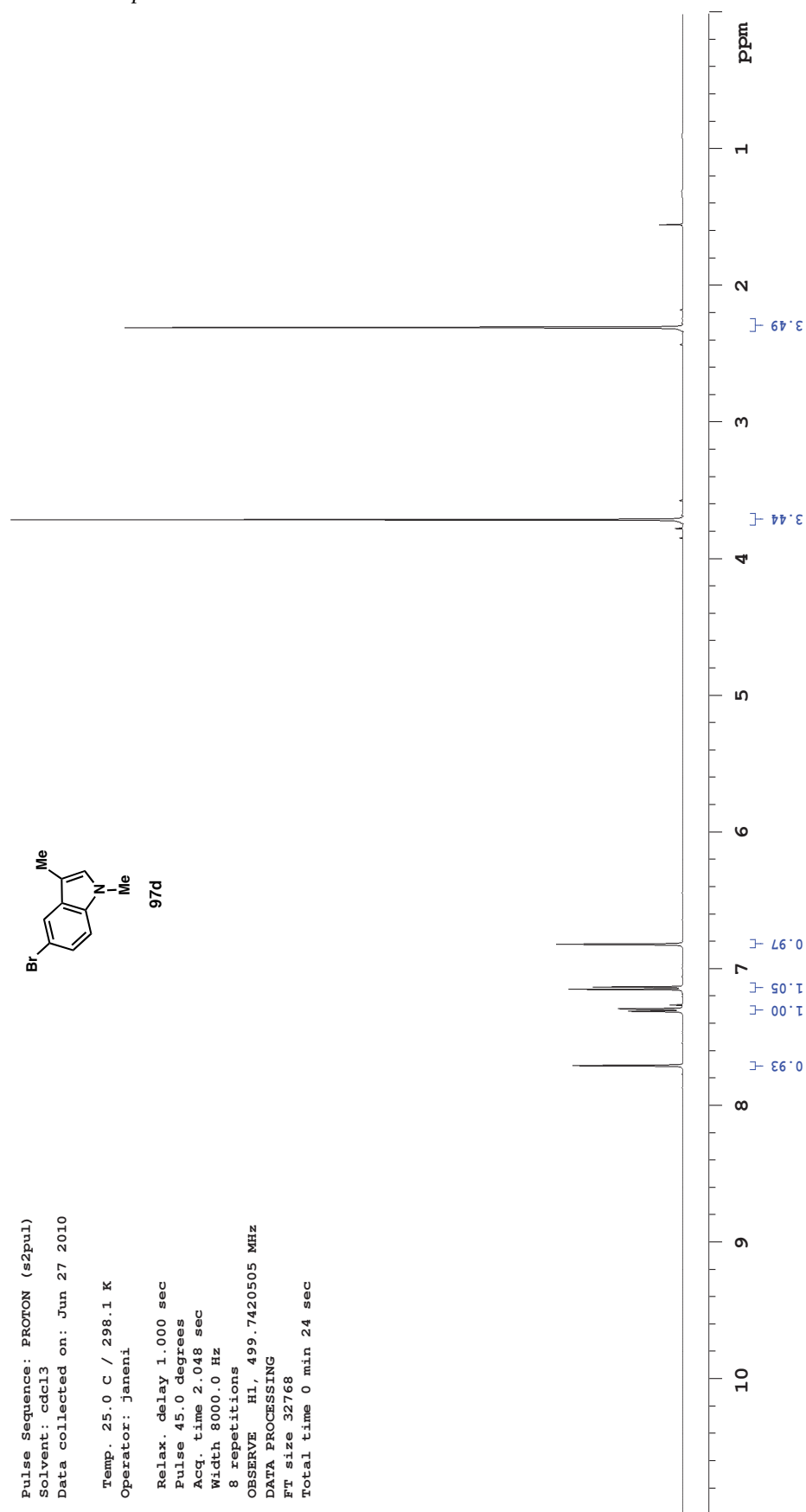
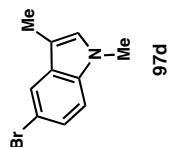
8 repetitions

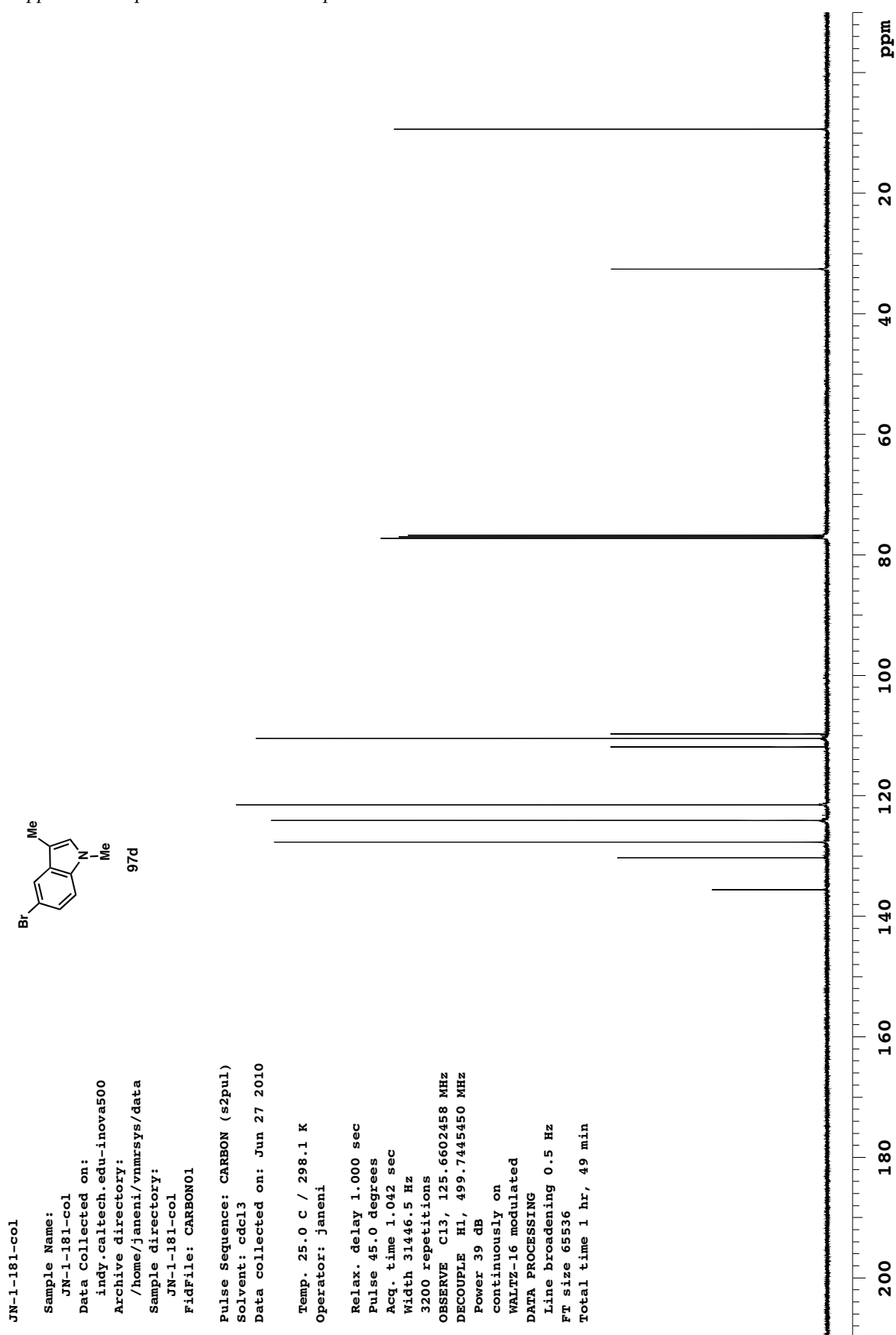
OBSERVE H1, 499.7420505 MHz

DATA PROCESSING

Ft size 32768

Total time 0 min 24 sec





JN-1-199-col

Sample Name:

JN-1-199-col

Data Collected on:

sienna.caltech.edu-vnmrs400

Archive directory:

/home/jni/vnmrsys/data

Sample directory:

JN-1-199-col

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdc13

Data collected on: Jul 24 2010

Temp. 26.0 C / 299.1 K

Sample #11, Operator: jni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 2.556 sec

Width 6410.3 Hz

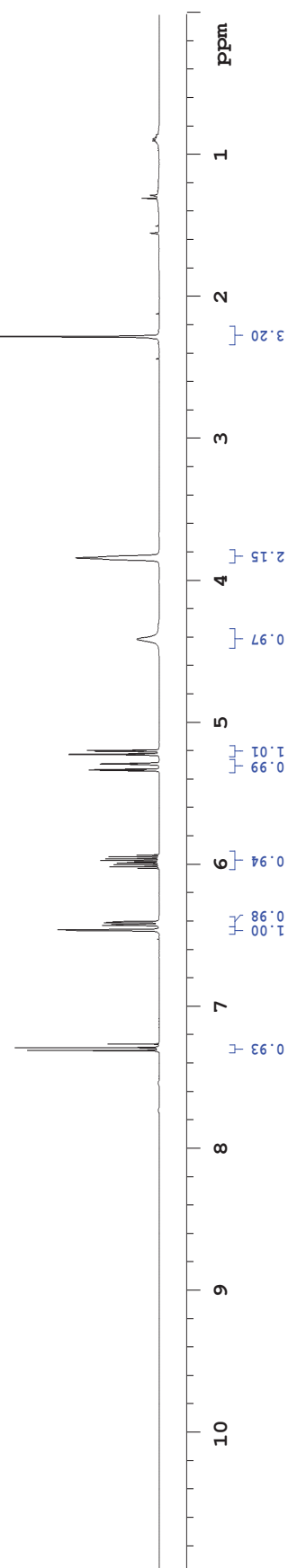
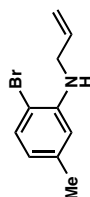
16 repetitions

OBSERVE H1, 399.7942813 MHz

DATA PROCESSING

FT size 32768

Total time 0 min 57 sec



JN-1-199-col

Sample Name:

JN-1-199-col

Data Collected on:

siena.caltech.edu-vmrs400

Archive directory:

/home/jni/vmrsys/data

Sample directory:

JN-1-199-col

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 24 2010

Temp. 26.0 C / 299.1 K

Sample #11, Operator: jni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.285 sec

Width 25510.2 Hz

2000 repetitions

OBSERVE C13, 100.5283540 MHz

DECOUPLE H1, 399.7962875 MHz

Power 39 dB

continuously on

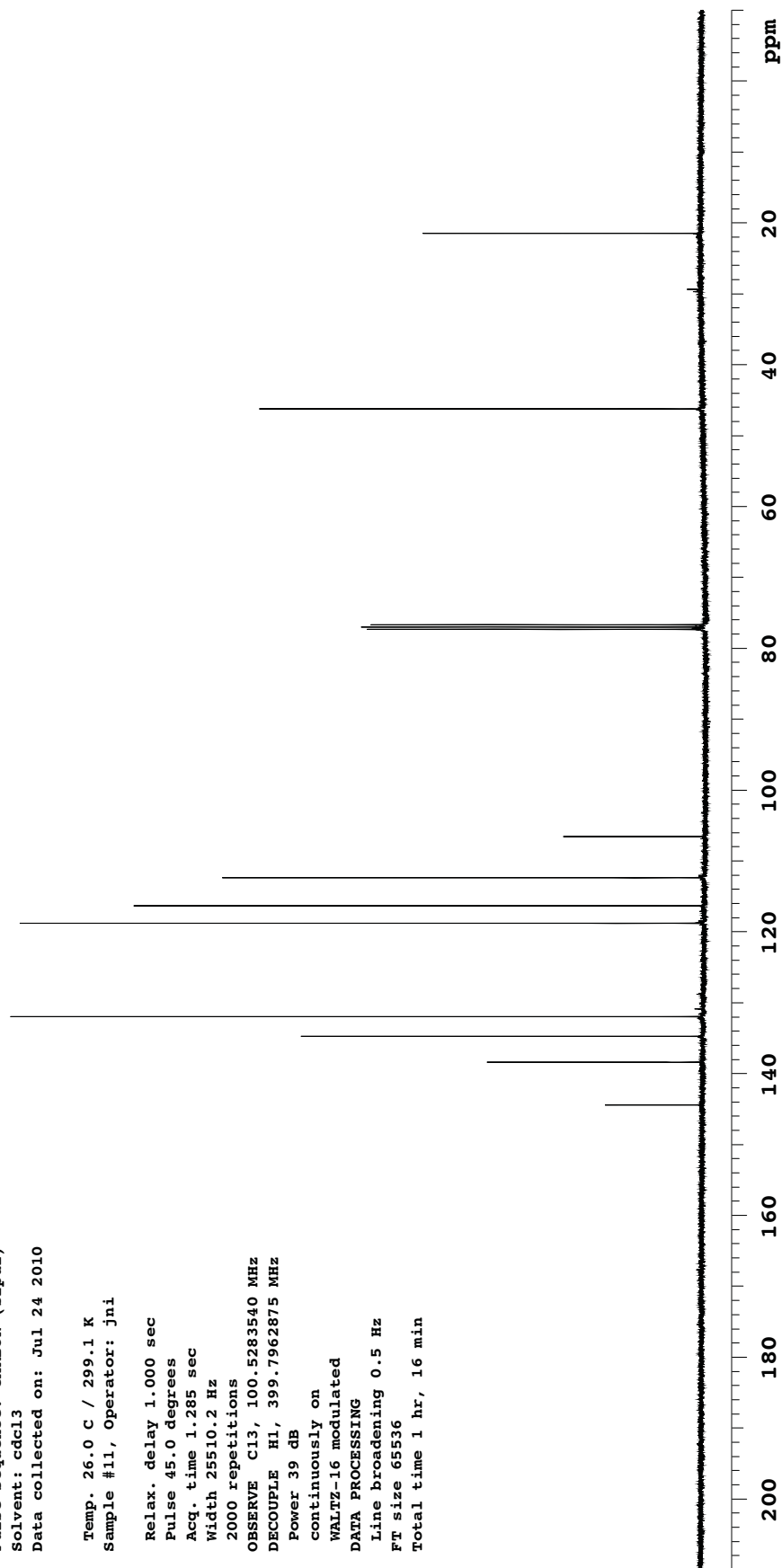
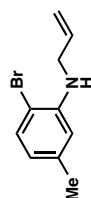
WALTZ-16 modulated

DATA PROCESSING

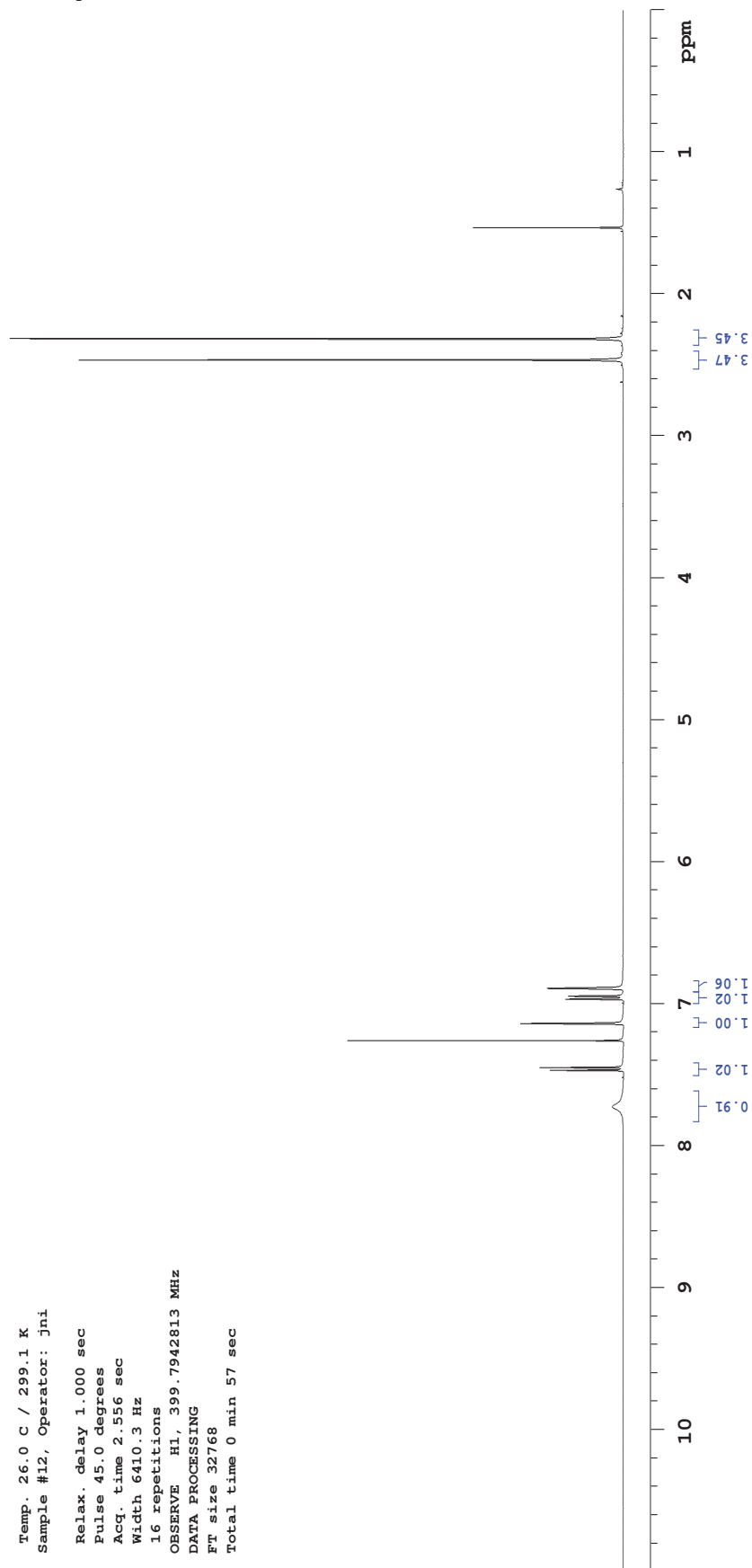
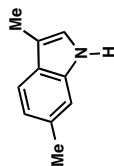
Line broadening 0.5 Hz

Ft size 65536

Total time 1 hr, 16 min



Total time 0 min 57 sec



JN-1-201-col

Sample Name:

JN-1-201-col

Data Collected on:

siena.caltech.edu-vmrs400

Archive directory:

/home/jni/vmrsys/data

Sample directory:

JN-1-201-col

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 24 2010

Temp. 26.0 C / 299.1 K

Sample #12, Operator: jni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.285 sec

Width 25510.2 Hz

4000 repetitions

OBSERVE C13, 100.5283515 MHz

DECOUPLE H1, 399.7962875 MHz

Power 39 dB

continuously on

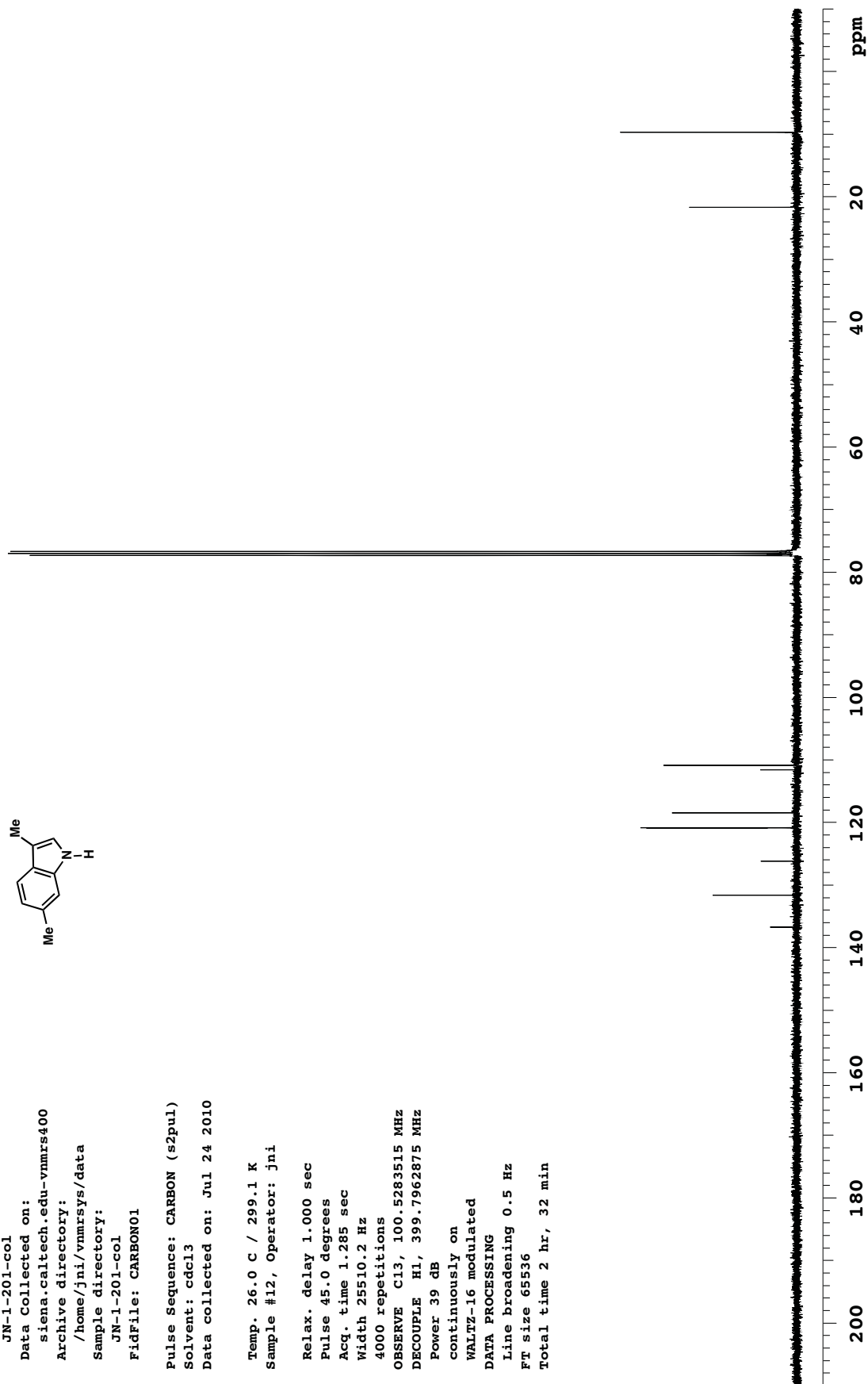
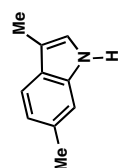
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 2 hr, 32 min



JN-1-203-col

Sample Name:

JN-1-203-col

Data Collected on:

hg3.caltech.edu-mercury300

Archive directory:

/home/jni/vnmrsys/data

Sample directory:

JN-1-203-col

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Jul 19 2010

Temp. 25.0 C / 298.1 K

Sample #21, Operator: jni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.706 sec

Width 4810.0 Hz

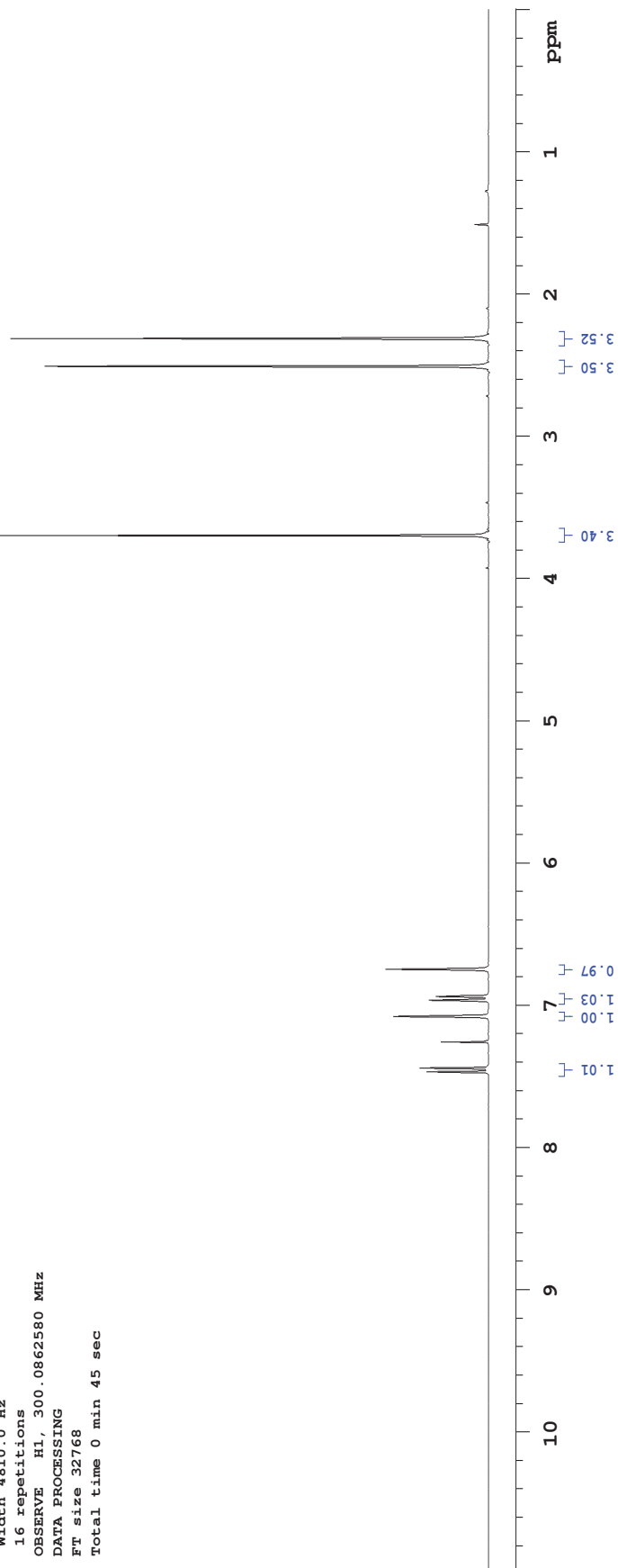
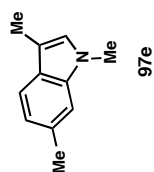
16 repetitions

OBSERVE H1, 300.0862580 MHz

DATA PROCESSING

Ft size 32768

Total time 0 min 45 sec

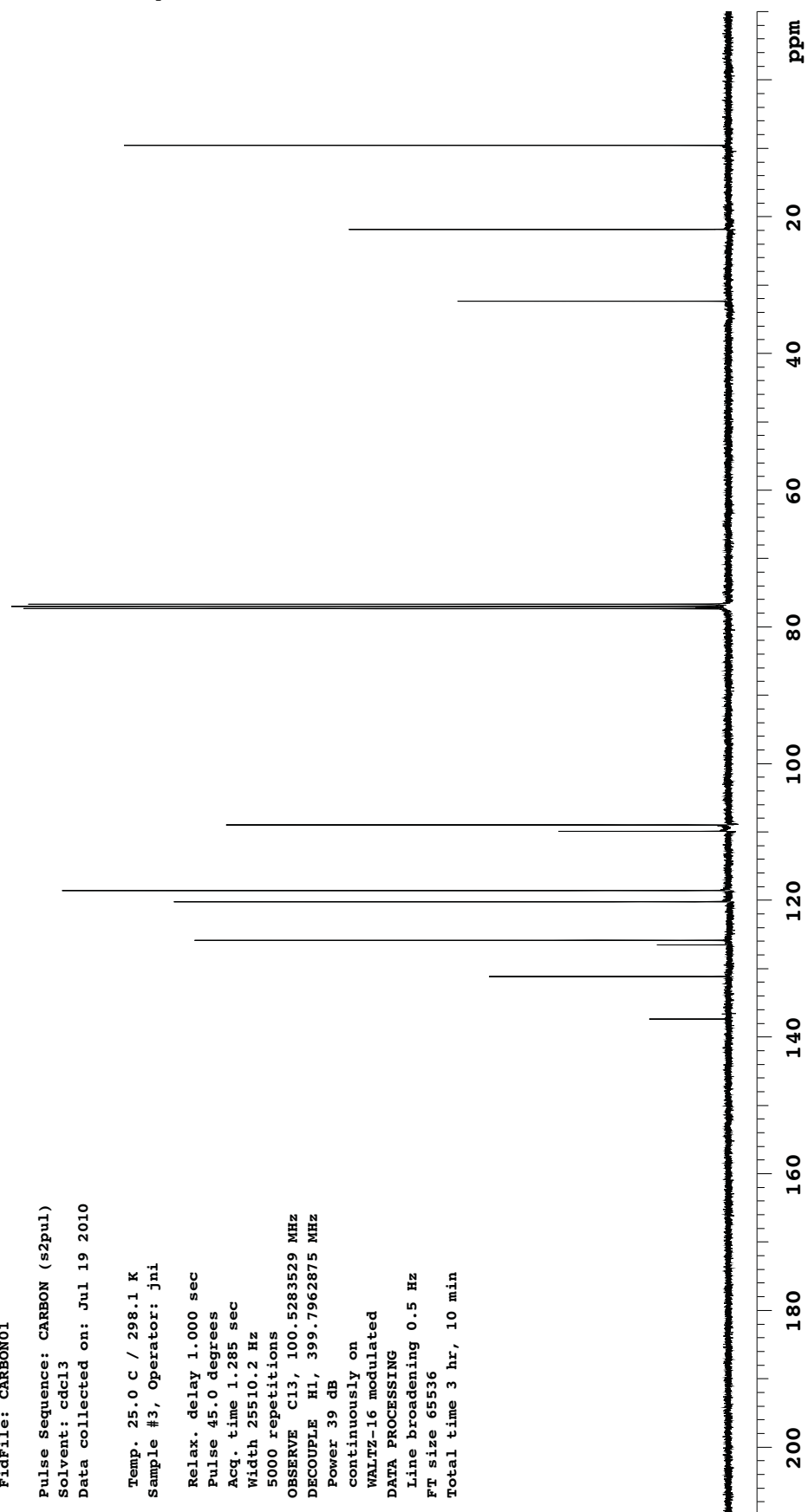


97e

Cc1c(C)c2ccccc2n1C

FidFile: CARBON01

Total time 3 hr, 10 min



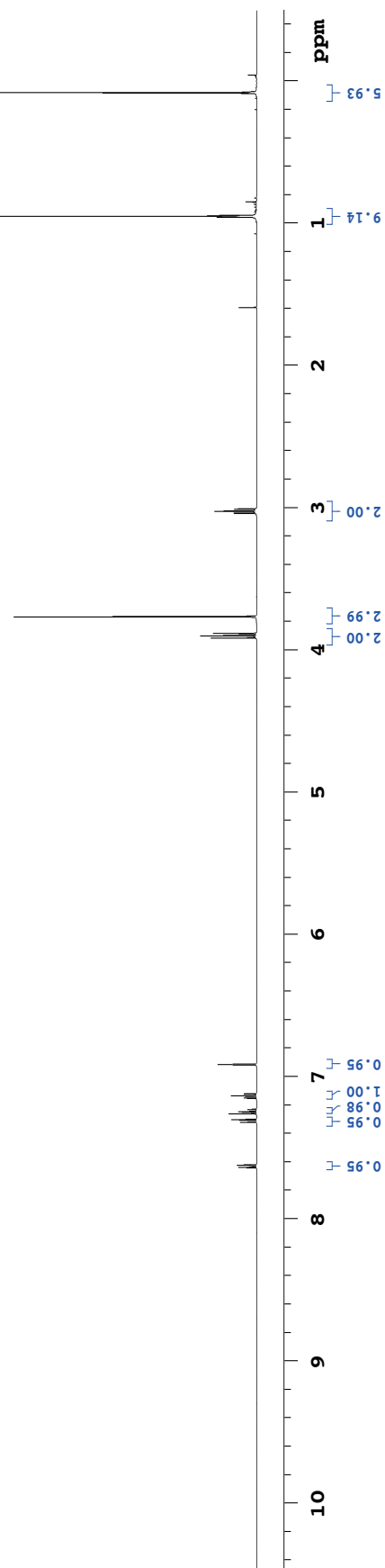
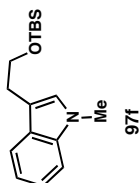
LMRIV-N-me-TBstryptophol

Sample Name:
 LMRIV-N-me-TBstryptophol
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/lrepka/vnmrsys/data
 Sample directory:
 LMRIV-N-me-TBstryptophol
 FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Jul 10 2010

Temp. 25.0 C / 298.1 K
 Operator: lrepka

Relax. delay 5.000 sec
 Pulse 45.0 degrees
 Acq. time 2.048 sec
 Width 8000.0 Hz
 16 repetitions
 OBSERVE H1, 499.7420500 MHz
 DATA PROCESSING
 FT size 32768
 Total time 1 min 53 sec



LMRIV-N-me-TBstryptophol2

Sample Name:

LMRIV-N-me-TBstryptophol2

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-N-me-TBstryptophol2

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 10 2010

Temp. 25.0 C / 298.1 K

Operator: lrepka

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.042 sec

Width 31446.5 Hz

3500 repetitions

OBSERVE C13, 125.6602422 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

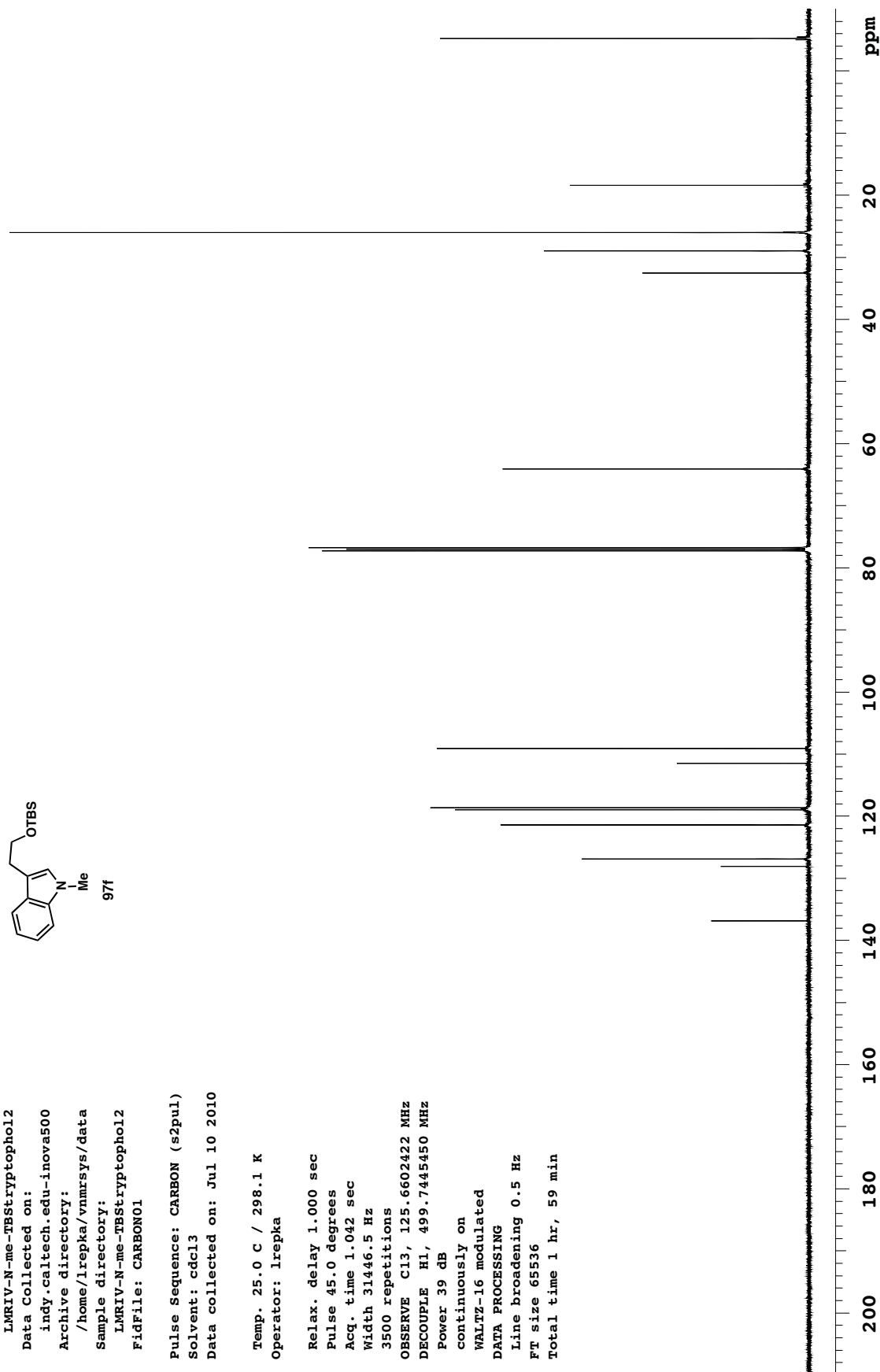
WALTZ-16 modulated

DATA PROCESSING

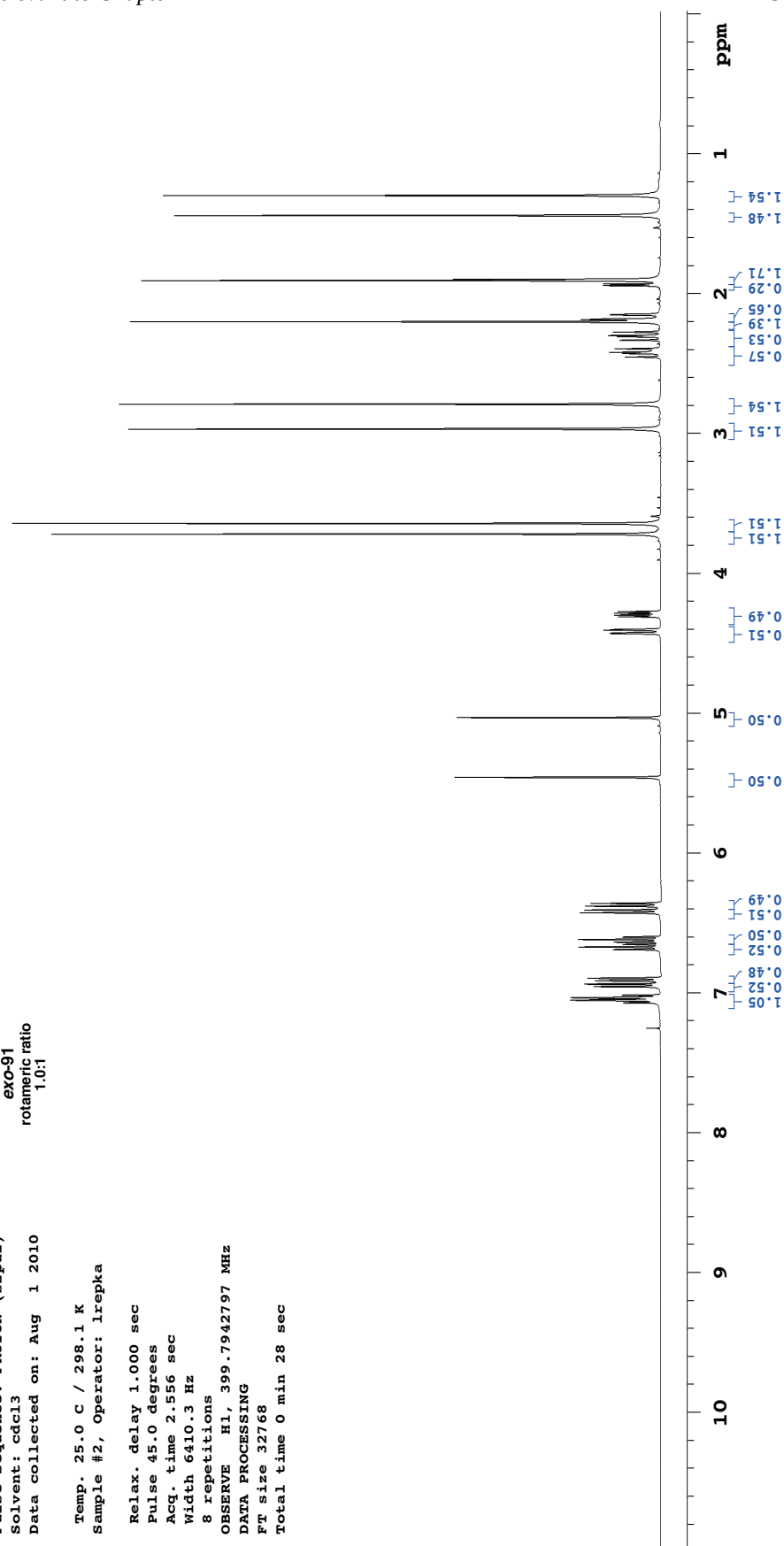
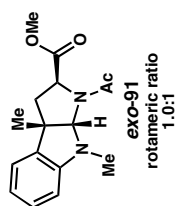
Line broadening 0.5 Hz

FT size 65536

Total time 1 hr, 59 min



Total time 0 min 28 sec



LMRIV-291-majordr-conc

Sample Name:

LMRIV-291-majordr-conc

Data Collected on:

siena.caltech.edu-vnmrs400

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-291-majordr-conc

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 31 2010

Temp. 25.0 C / 298.1 K

Sample #11, Operator: lrepka

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.468 sec

Width 22321.4 Hz

3000 repetitions

OBSERVE C13, 100.5283980 MHz

DECOUPLE H1, 399.7962875 MHz

Power 39 dB

continuously on

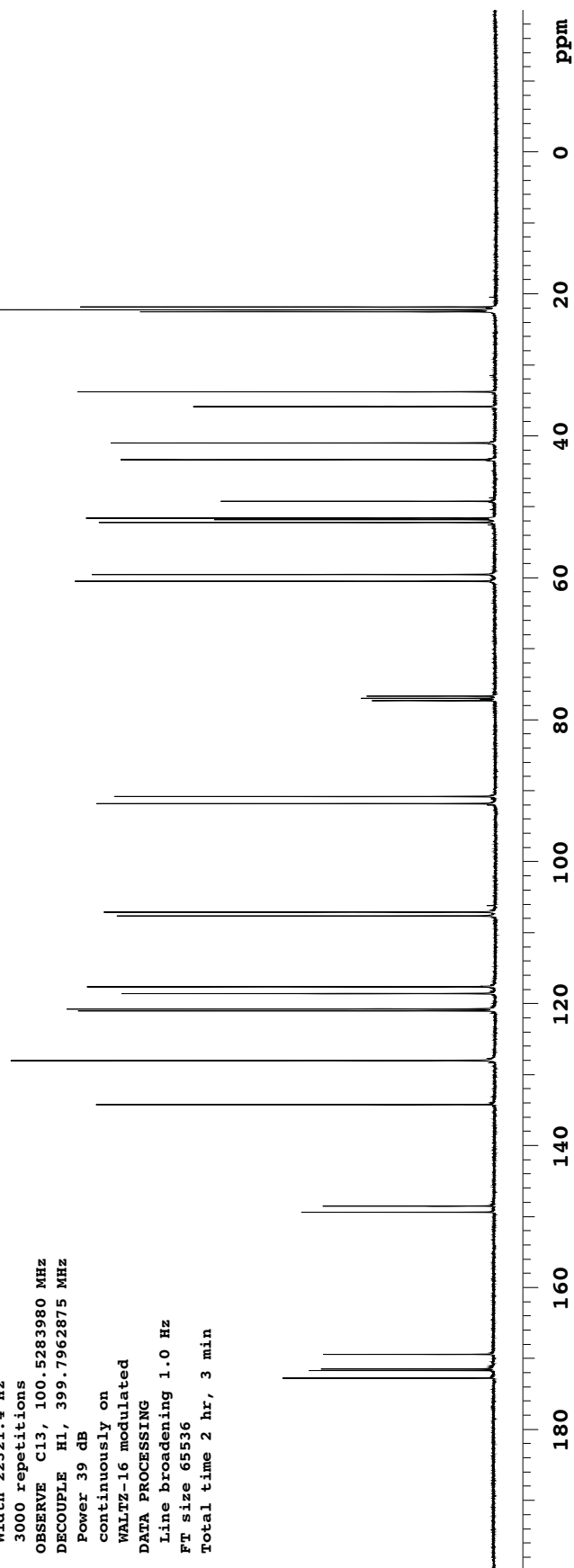
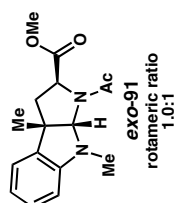
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 65536

Total time 2 hr, 3 min



LMRIV-291-minordr-hsqc

Sample Name:

LMRIV-291-minordr-hsqc

Data Collected on:

Siena.caltech.edu-vnmrs400

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-291-minordr-hsqc

Fidfile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Aug 1 2010

Temp. 25.0 C / 298.1 K

Sample #3, Operator: lrepka

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 2.556 sec

Width 6410.3 Hz

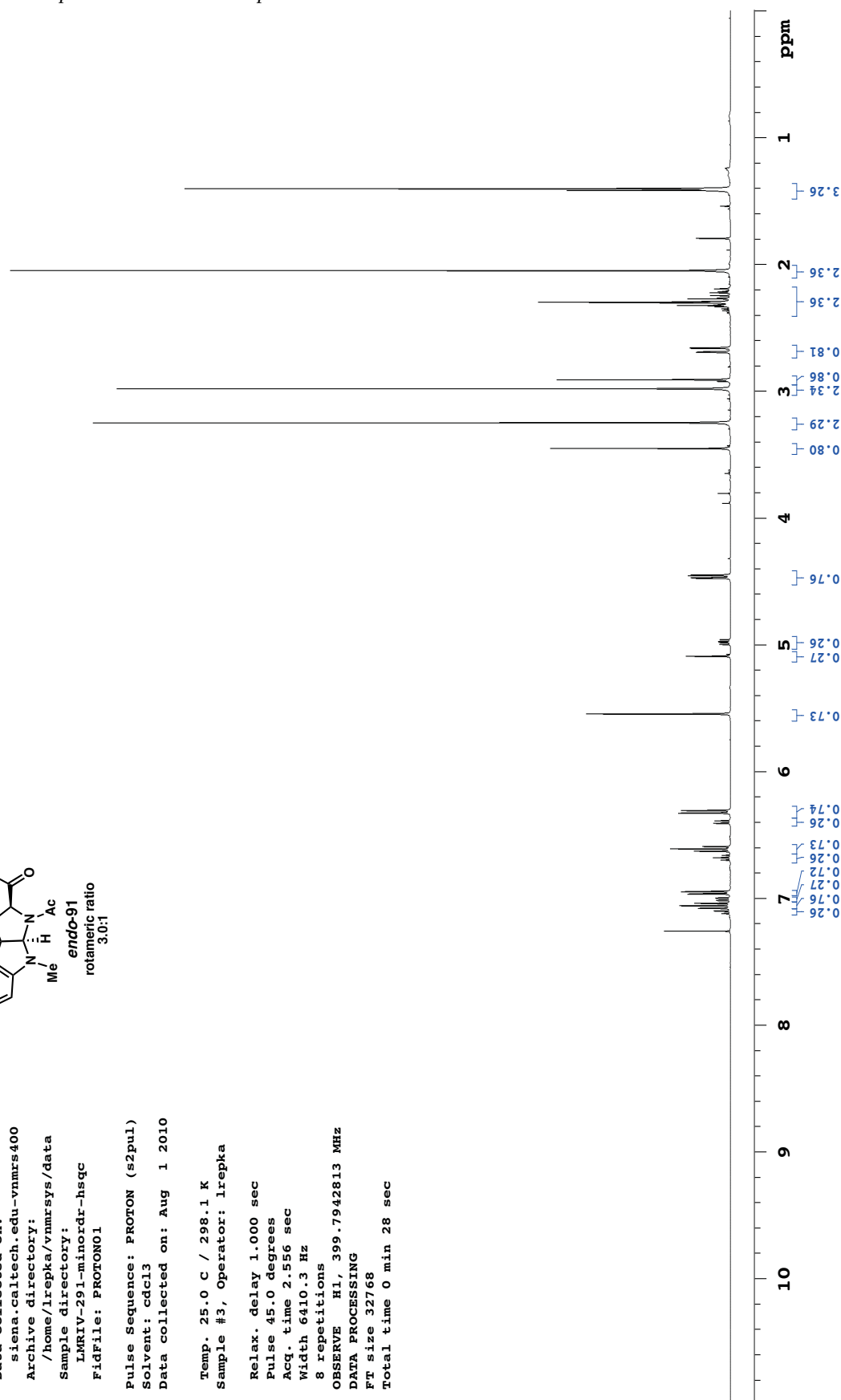
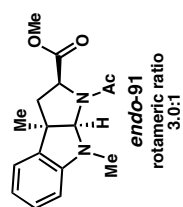
8 repetitions

OBSERVE H1, 399.7942813 MHz

DATA PROCESSING

FT size 32768

Total time 0 min 28 sec



LMRIV-291-minordr

Sample Name:

LMRIV-291-minordr
Data Collected on:
siena.caltech.edu-vnmrs400
Archive directory:
/home/lrepka/vnmrsys/data
Sample directory:
LMRIV-291-minordr
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 31 2010

Temp. 25.0 C / 298.1 K
Sample #12, Operator: lrepka

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.258 sec
Width 26041.7 Hz
14500 repetitions

OBSERVE C13, 100.5283574 MHz
DECOUPLE H1, 399.7962875 MHz

Power 39 dB

continuously on

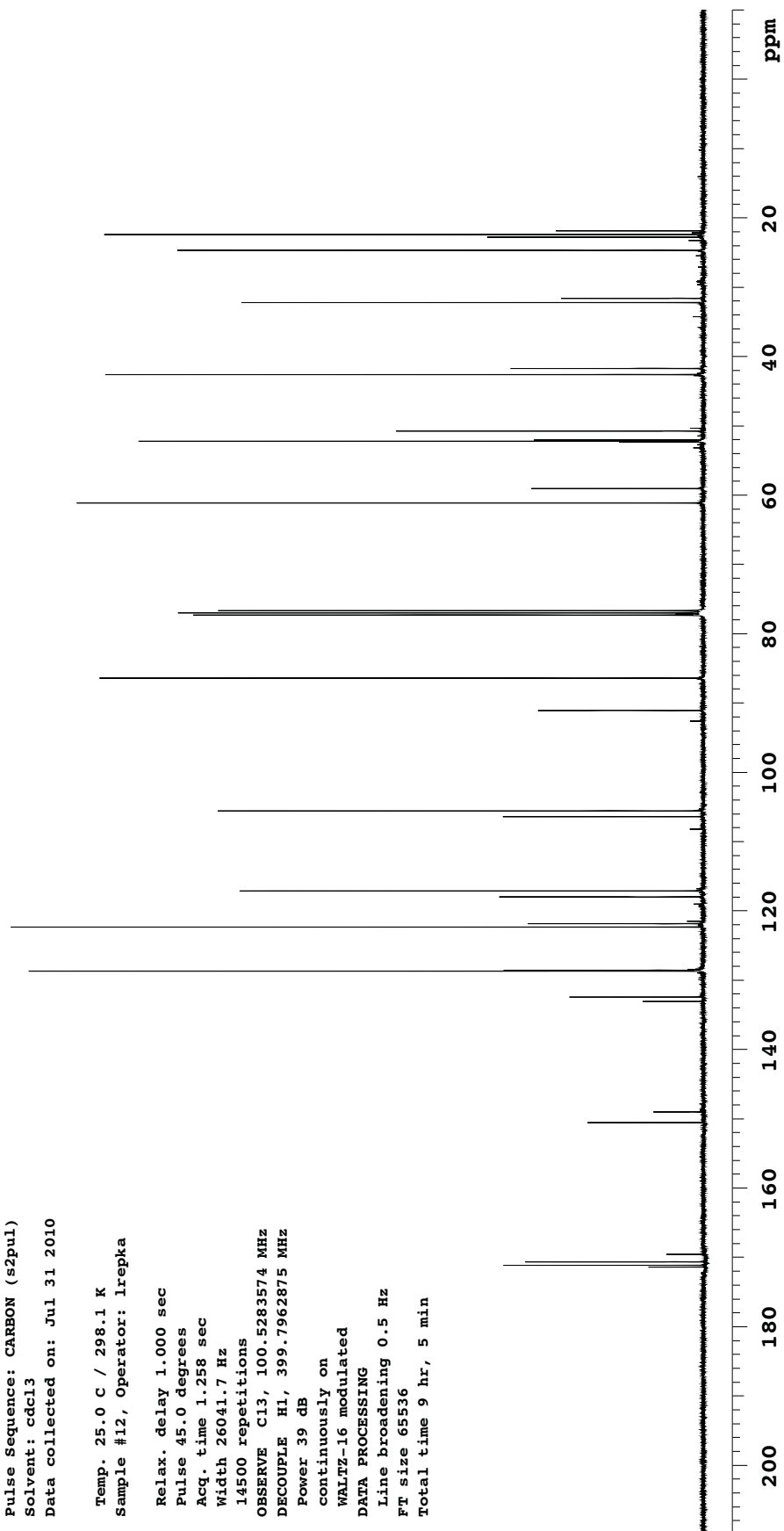
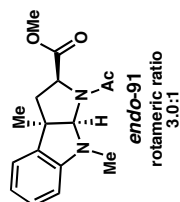
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 9 hr, 5 min



JN-1-131-majordiast

Sample Name:

JN-1-131-majordiast

Data Collected on:

sienna.caltech.edu-vnmrs400

Archive directory:

/home/jni/vnmrsys/data

Sample directory:

JN-1-131-majordiast

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Aug 5 2010

Temp. 25.0 C / 298.1 K

Sample #1, Operator: jni

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.556 sec

Width 6410.3 Hz

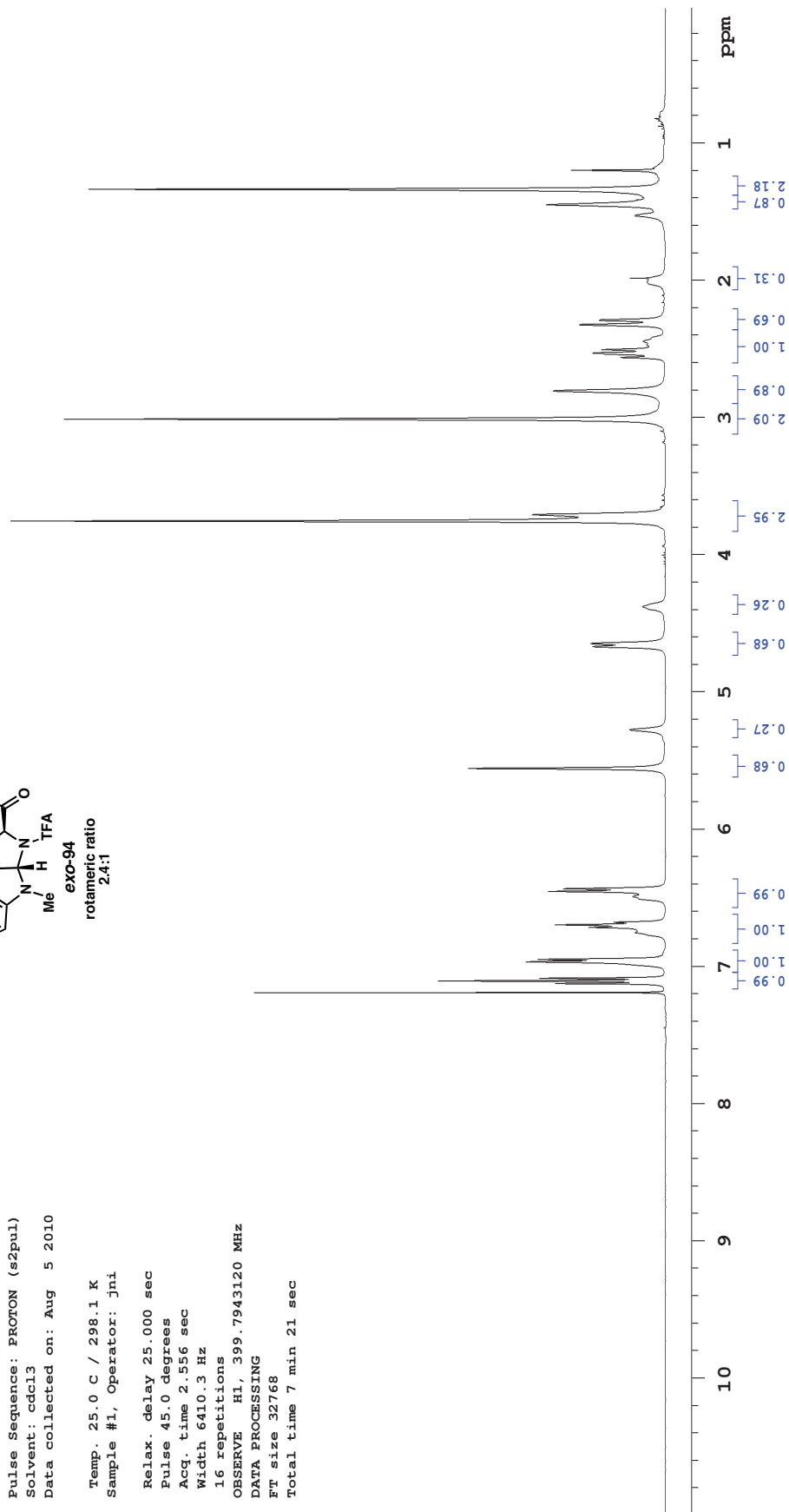
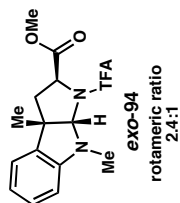
16 repetitions

OBSERVE H1, 399.7943120 MHz

DATA PROCESSING

Ft size 32768

Total time 7 min 21 sec



JN-1-131-majordiaast

Sample Name:

JN-1-131-majordiaast
Data Collected on:
siena.caltech.edu-vmrs400
Archive directory:
/home/jni/vmrsys/data
Sample directory:
JN-1-131-majordiaast
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Aug 5 2010

Temp. 25.0 C / 298.1 K
Sample #1, Operator: jni

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.285 sec
Width 25510.2 Hz
9700 repetitions

OBSERVE C13, 100.5283531 MHz
DECOUPLE H1, 399.7962875 MHz

Power 39 dB

continuously on

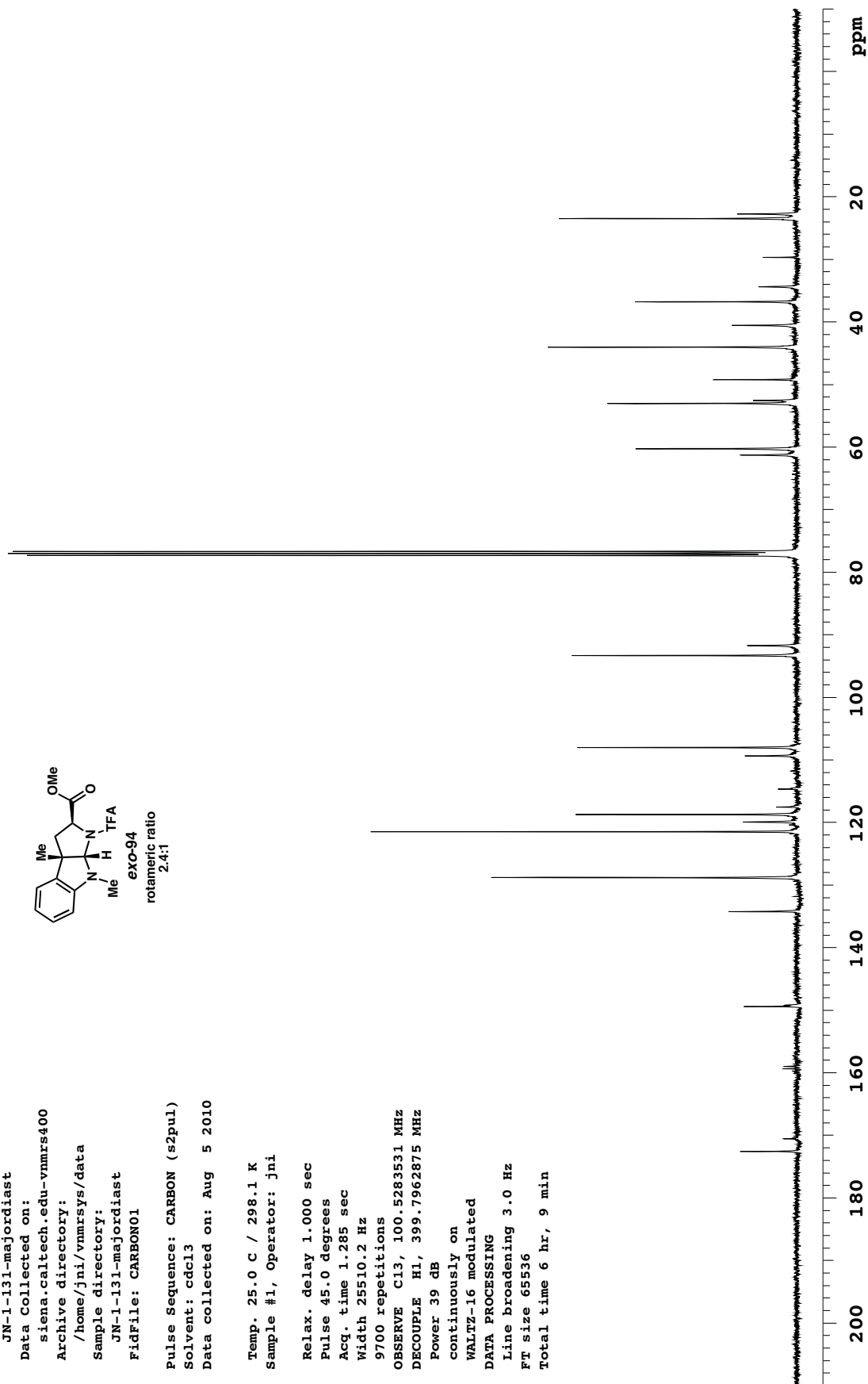
WALTZ-16 modulated

DATA PROCESSING

Line broadening 3.0 Hz

FT size 65536

Total time 6 hr, 9 min



JN-1-131-minordiast3

Sample Name:

JN-1-131-minordiast3

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/janeni/vmrsys/data

Sample directory:

JN-1-131-minordiast3

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Aug 5 2010

Operator: janeni

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.500 sec

Width 8000.0 Hz

16 repetitions

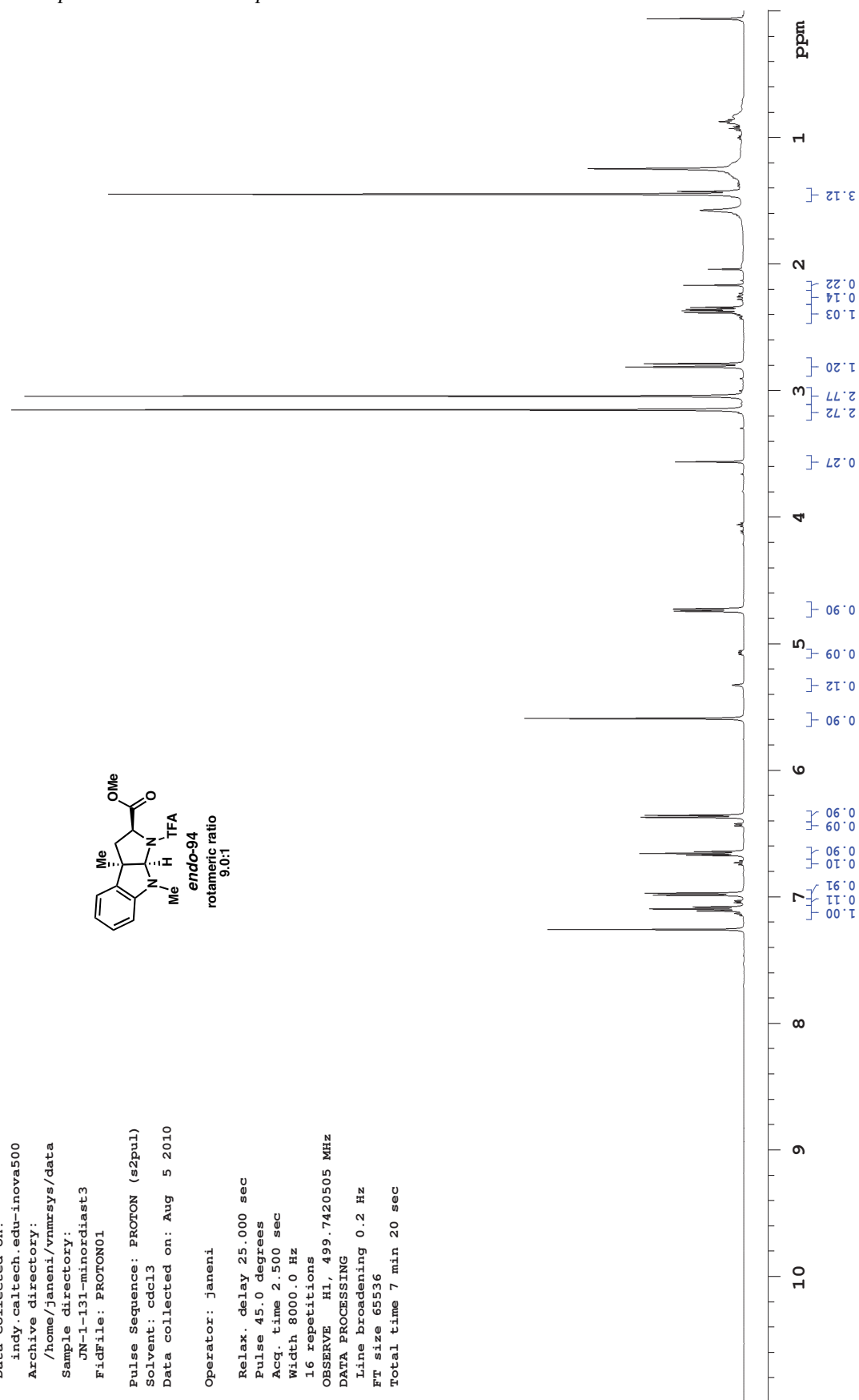
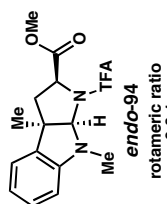
OBSERVE H1, 499.7420505 MHz

DATA PROCESSING

Line broadening 0.2 Hz

Ft size 65536

Total time 7 min 20 sec



JN-1-131-minordiast3

Sample Name:

JN-1-131-minordiast3

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/janeni/vnmrsys/data

Sample directory:

JN-1-131-minordiast3

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Aug 5 2010

Operator: janeni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.042 sec

Width 3146.5 Hz

11000 repetitions

OBSERVE C13, 125.6602406 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

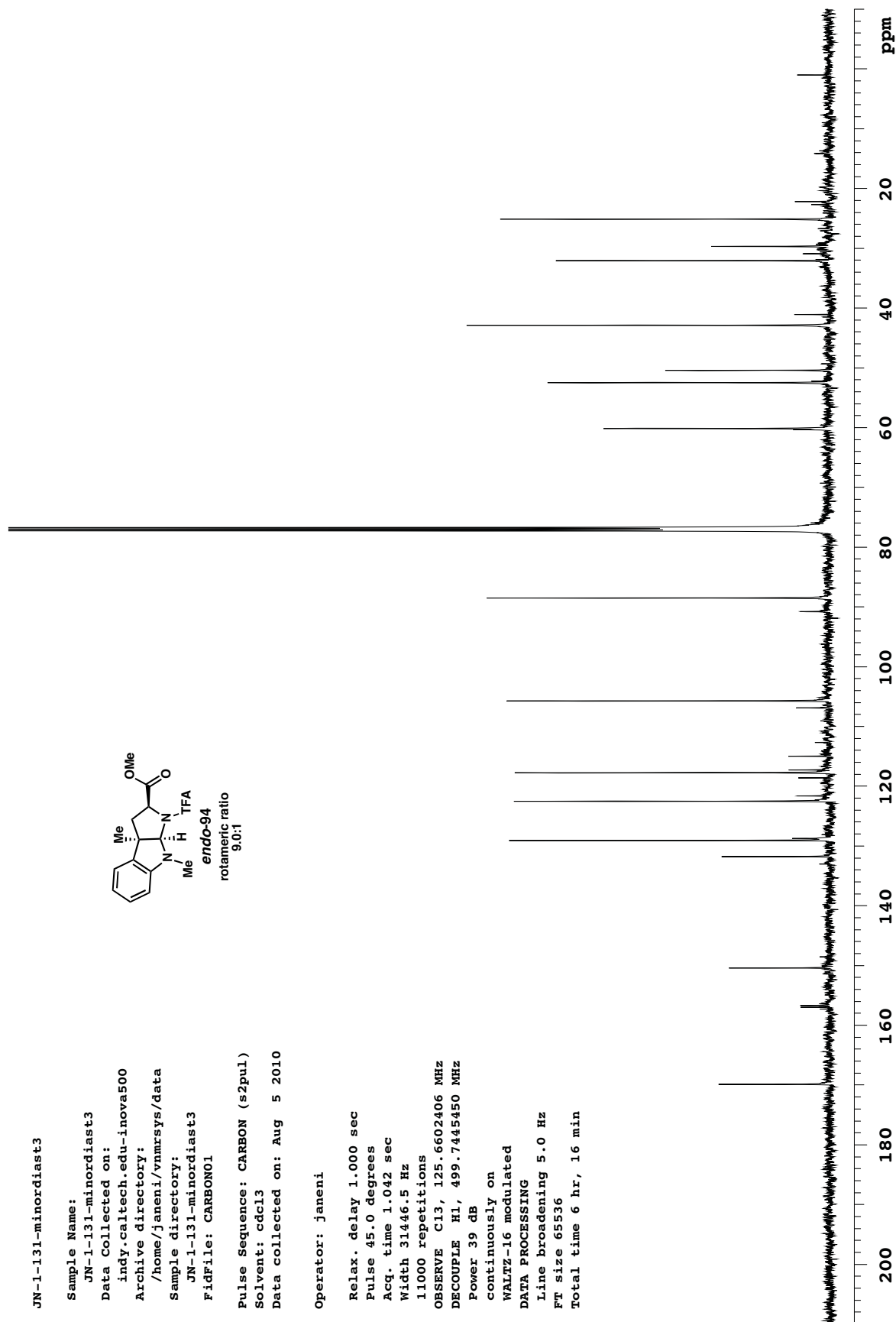
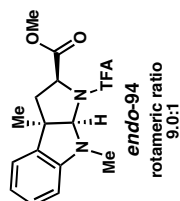
WALTZ-16 modulated

DATA PROCESSING

Line broadening 5.0 Hz

FT size 65536

Total time 6 hr, 16 min



JN-1-151-major

Sample Name:

JN-1-151-major

Data Collected on:

hg3.caltech.edu-mercury300

Archive directory:

/home/jni/vnmrsys/data

Sample directory:

JN-1-151-major

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdc13

Data collected on: Jun 24 2010

Temp. 25.0 C / 298.1 K

Sample #20, Operator: jni

Relax. delay 2.000 sec

Pulse 45.0 degrees

Acq. time 1.706 sec

Width 4810.0 Hz

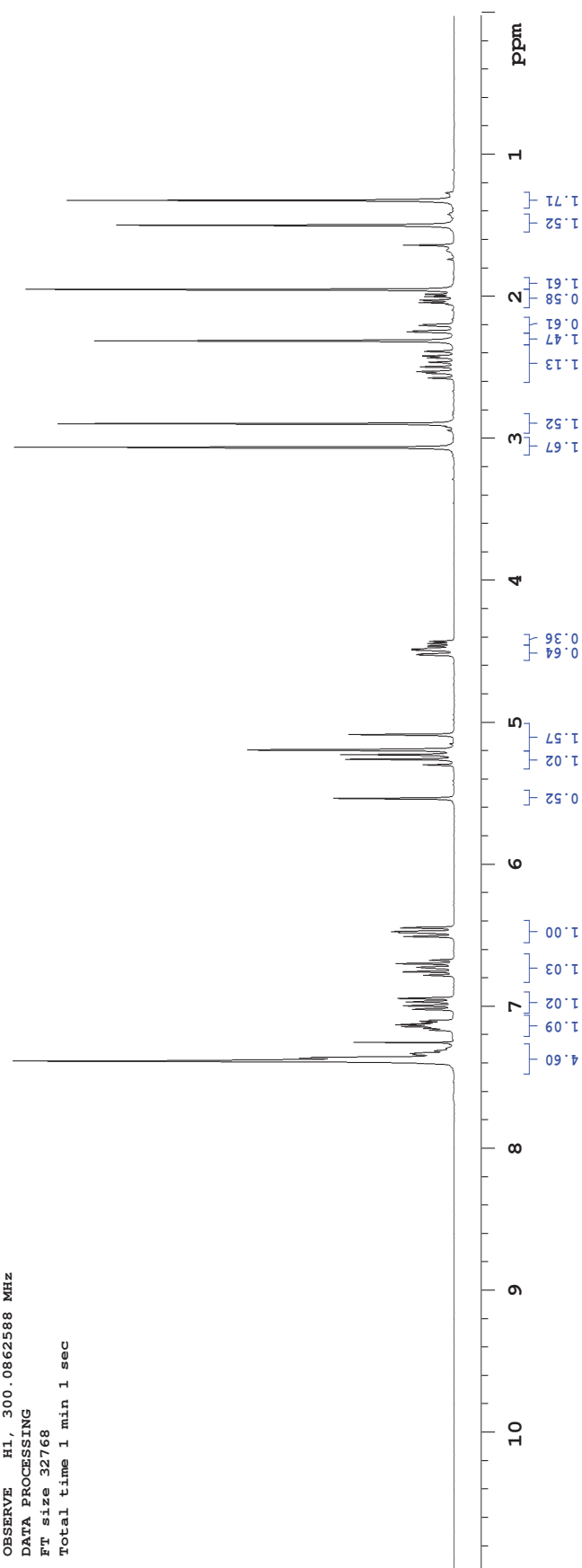
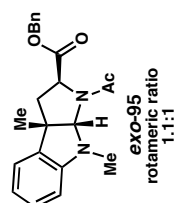
16 repetitions

OBSERVE H1, 300.0862588 MHz

DATA PROCESSING

Ft size 32768

Total time 1 min 1 sec



JN-1-151

Sample Name:

JN-1-151

Data Collected on:

siena.caltech.edu-vmrs400

Archive directory:

/home/jni/vmrsys/data

Sample directory:

JN-1-151

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jun 26 2010

Sample #1, Operator: jni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.285 sec

Width 25510.2 Hz

8500 repetitions

OBSERVE C13, 100.5283573 MHz

DECOUPLE H1, 399.7962875 MHz

Power 39 dB

continuously on

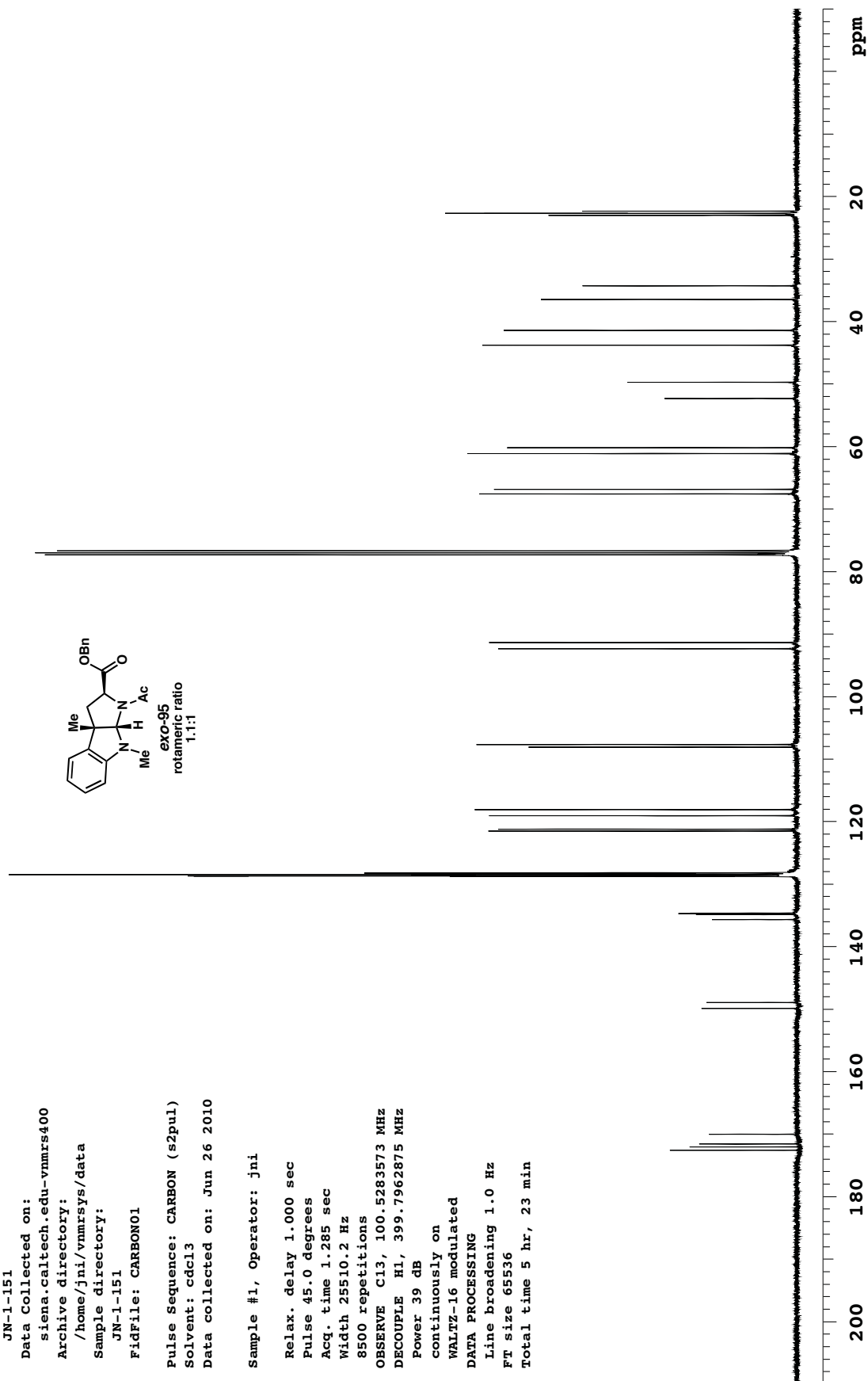
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 65536

Total time 5 hr, 23 min



JN-1-151-minordiast3

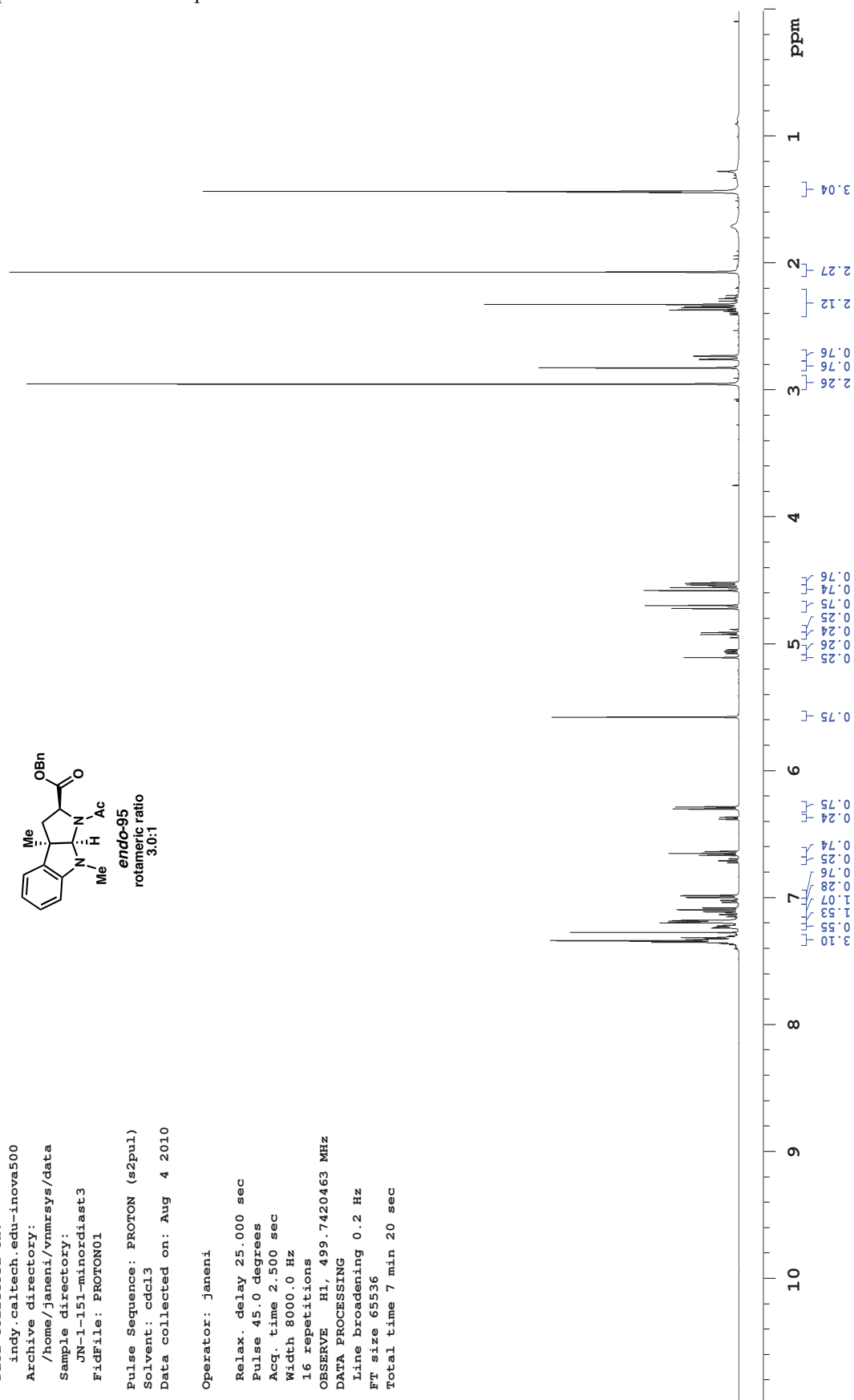
Sample Name:

JN-1-151-minordiast3
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/janeni/vnmrsys/data
 Sample directory:
 JN-1-151-minordiast3
 FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Aug 4 2010

Operator: janeni

Relax. delay 25.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 16 repetitions
 OBSERVE H1, 499.7420463 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 7 min 20 sec



JN-1-151-minordiast3

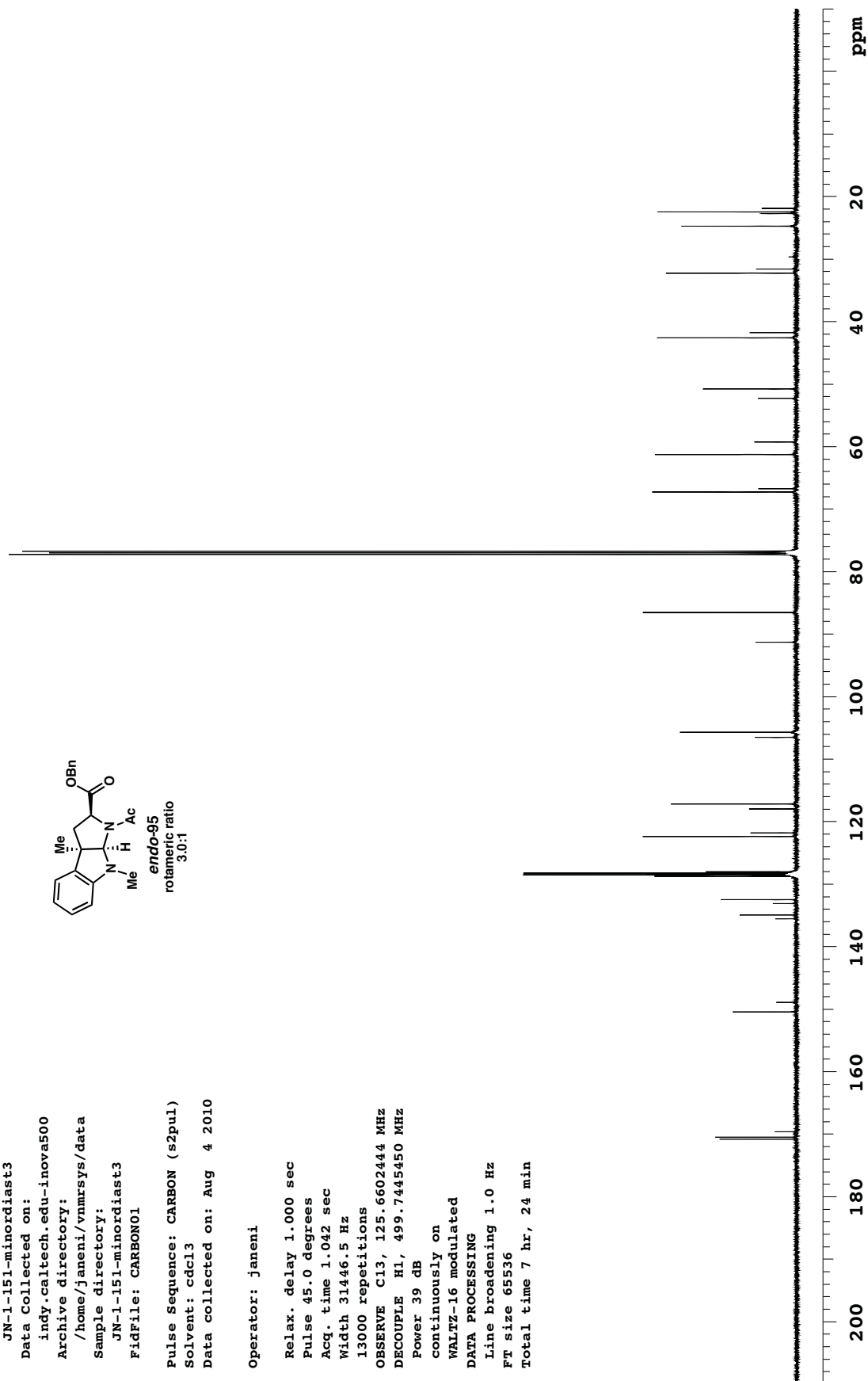
Sample Name:

JN-1-151-minordiast3
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/janeni/vnmrsys/data
 Sample directory:
 JN-1-151-minordiast3
 FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
 Solvent: cdcl3
 Data collected on: Aug 4 2010

Operator: janeni

Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 1.042 sec
 Width 31446.5 Hz
 13000 repetitions
 OBSERVE C13, 125.6602444 MHz
 DECOUPLE H1, 499.7445450 MHz
 Power 39 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 1.0 Hz
 FT size 65536
 Total time 7 hr, 24 min



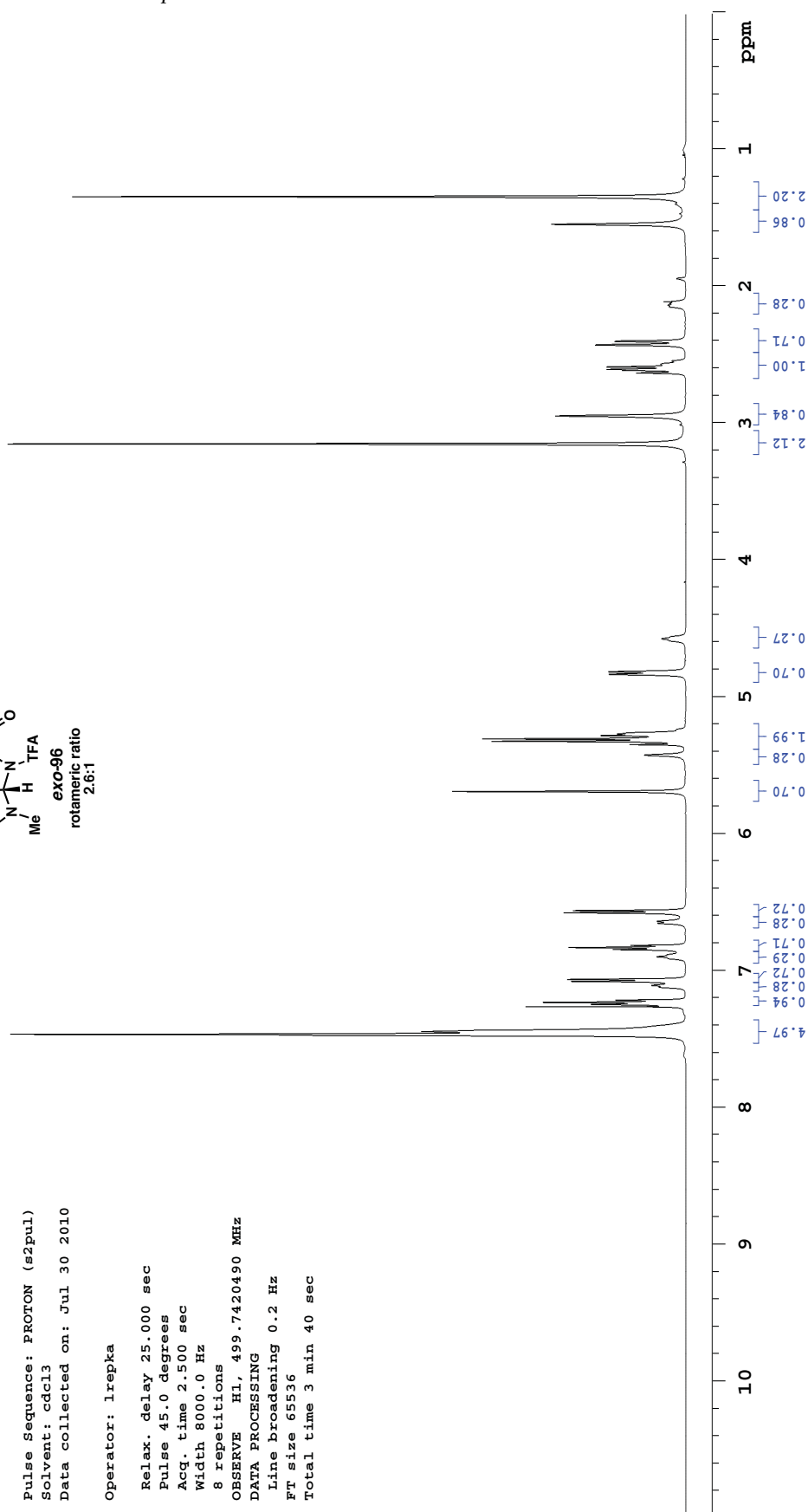
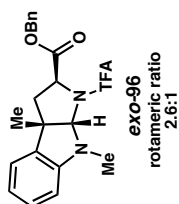
LMRIV-287-majordr-rd25

Sample Name:
 LMRIV-287-majordr-rd25
 Data Collected on:
 indy.caltech.edu-ino500
 Archive directory:
 /home/lrepka/vnmrsys/data
 Sample directory:
 LMRIV-287-majordr-rd25
 FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Jul 30 2010

Operator: lrepka

Relax. delay 25.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 8 repetitions
 OBSERVE H1, 499.7420490 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 3 min 40 sec



LMRIV-scale-up-12h-major

Sample Name:

LMRIV-scale-up-12h-major

Data Collected on:

siena.caltech.edu-vmrs400

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-scale-up-12h-major

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 29 2010

Temp. 25.0 C / 298.1 K

Sample #1, Operator: lrepka

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.285 sec

Width 25510.2 Hz

11500 repetitions

OBSERVE C13, 100.5283829 MHz

DECOUPLE H1, 399.7962875 MHz

Power 39 dB

continuously on

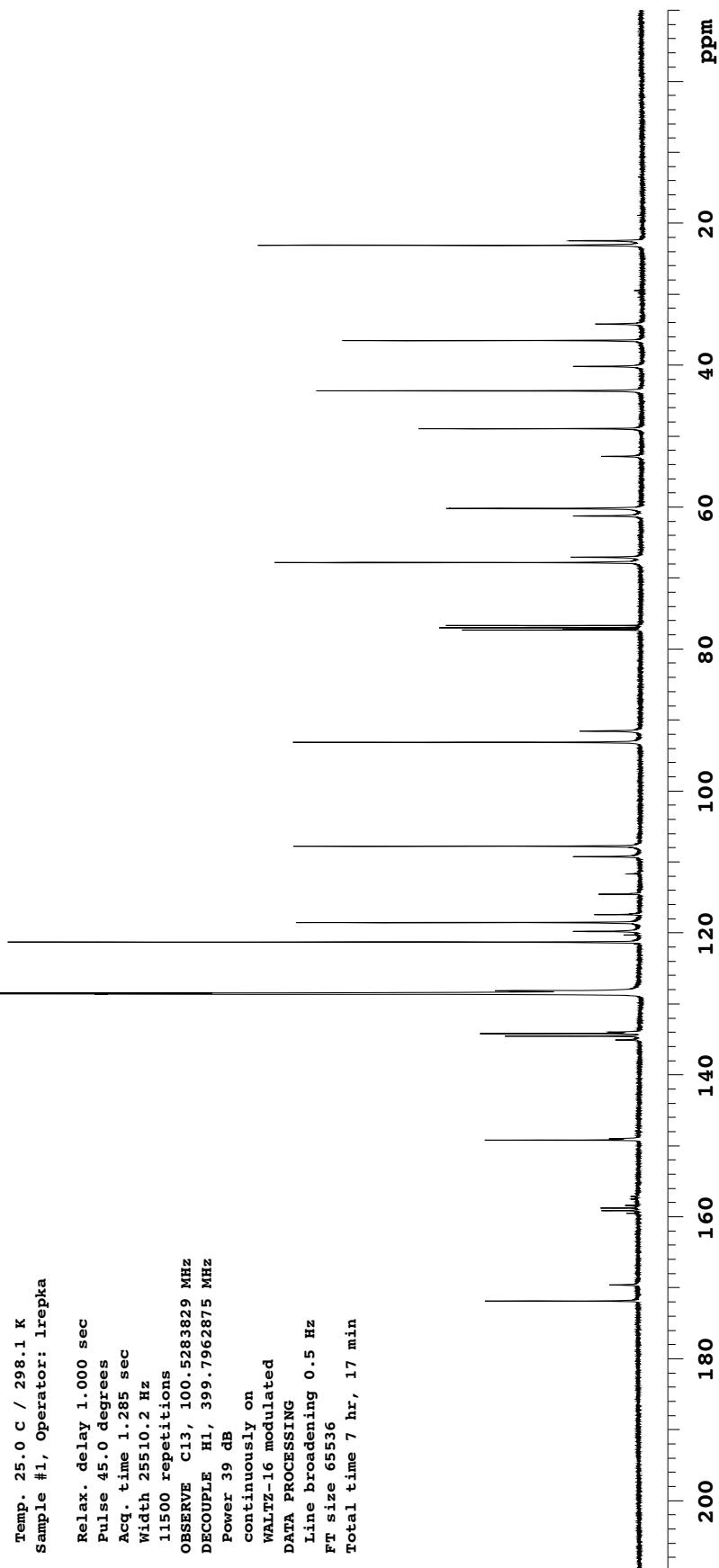
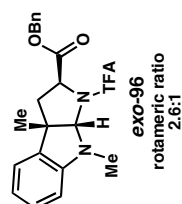
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 7 hr, 17 min



LMRIV-287-minor-8-5-10

Sample Name:

LMRIV-287-minor-8-5-10

Data Collected on:

hg3.caltech.edu-mercury300

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-287-minor-8-5-10

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Aug 5 2010

Temp. 25.0 C / 298.1 K

Sample #46, Operator: lrepka

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 1.706 sec

Width 4810.0 Hz

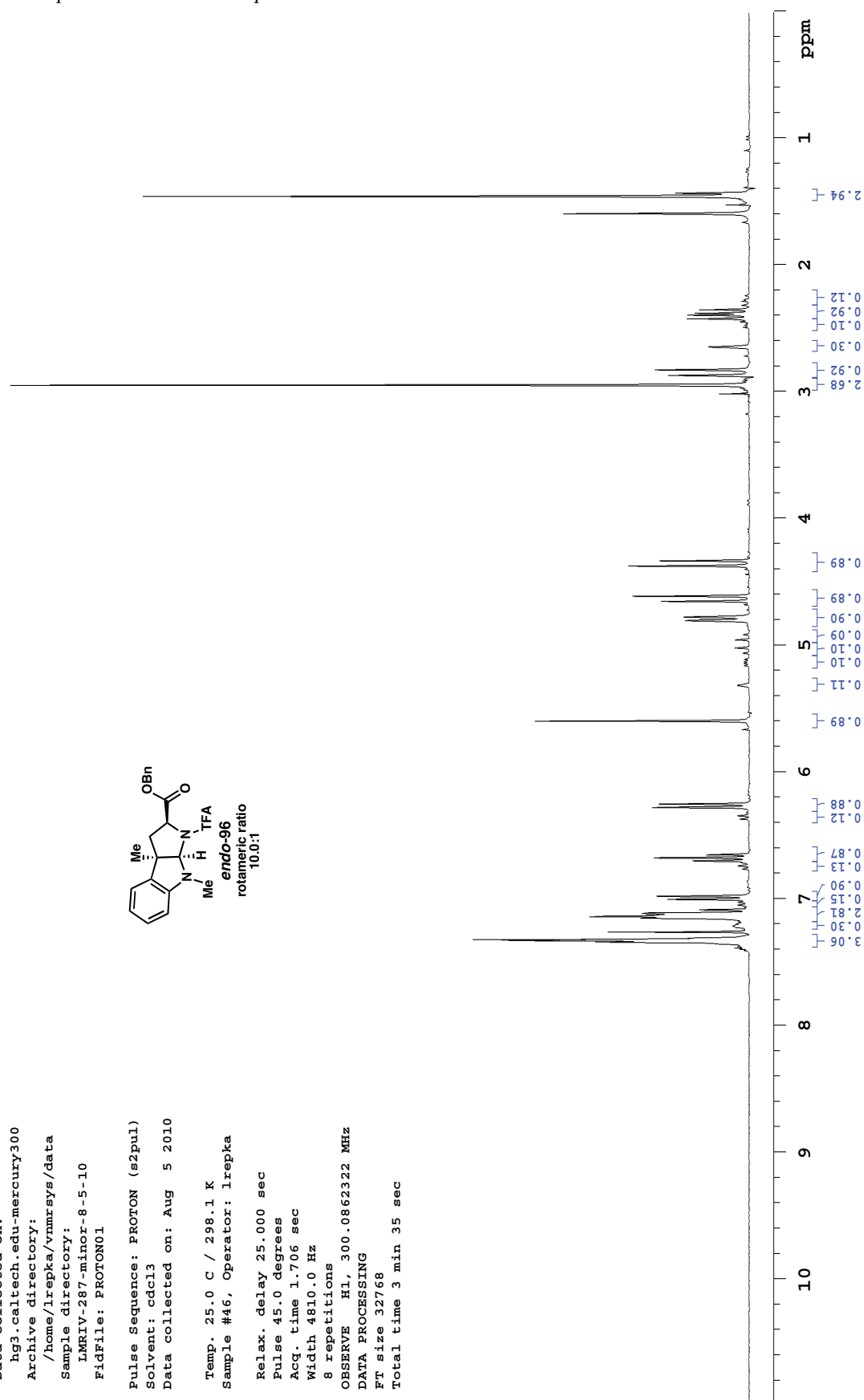
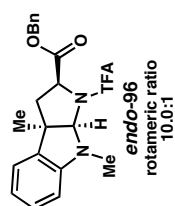
8 repetitions

OBSERVE H1, 300.0862322 MHz

DATA PROCESSING

FT size 32768

Total time 3 min 35 sec



LMRIV-scale-up-12h-minordr

Sample Name:

LMRIV-scale-up-12h-minordr

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-scale-up-12h-minordr

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 29 2010

Operator: lrepka

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.042 sec

Width 31446.5 Hz

13500 repetitions

OBSERVE C13, 125.6602412 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

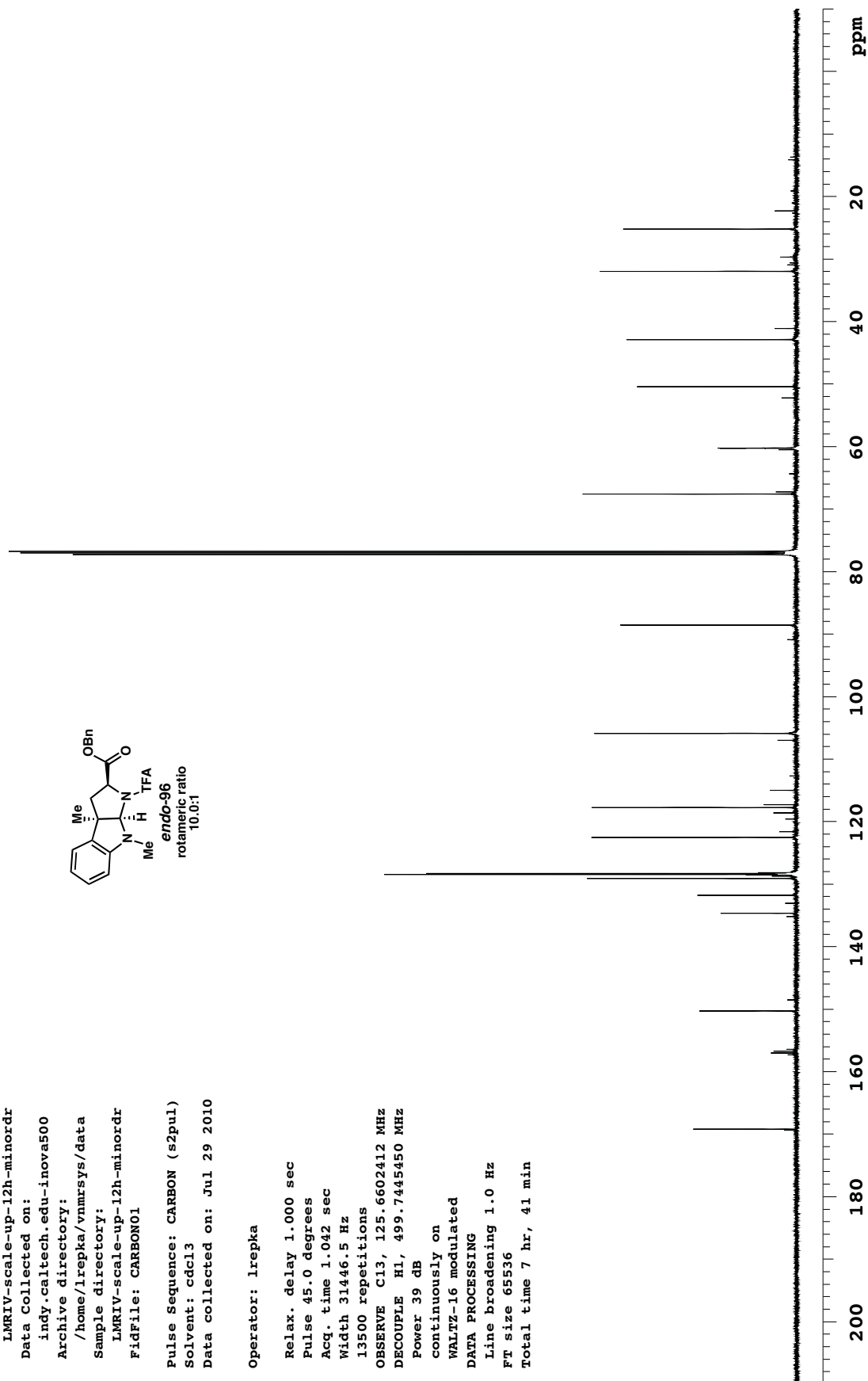
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 65536

Total time 7 hr, 41 min



JN-1-191-majordiast

Sample Name:

JN-1-191-majordiast

Data Collected on:

sienna.caltech.edu-vnmrs400

Archive directory:

/home/jni/vnmrsys/data

Sample directory:

JN-1-191-majordiast

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdc13

Data collected on: Jul 19 2010

Temp. 25.0 C / 298.1 K

Sample #5, Operator: jni

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.556 sec

Width 6410.3 Hz

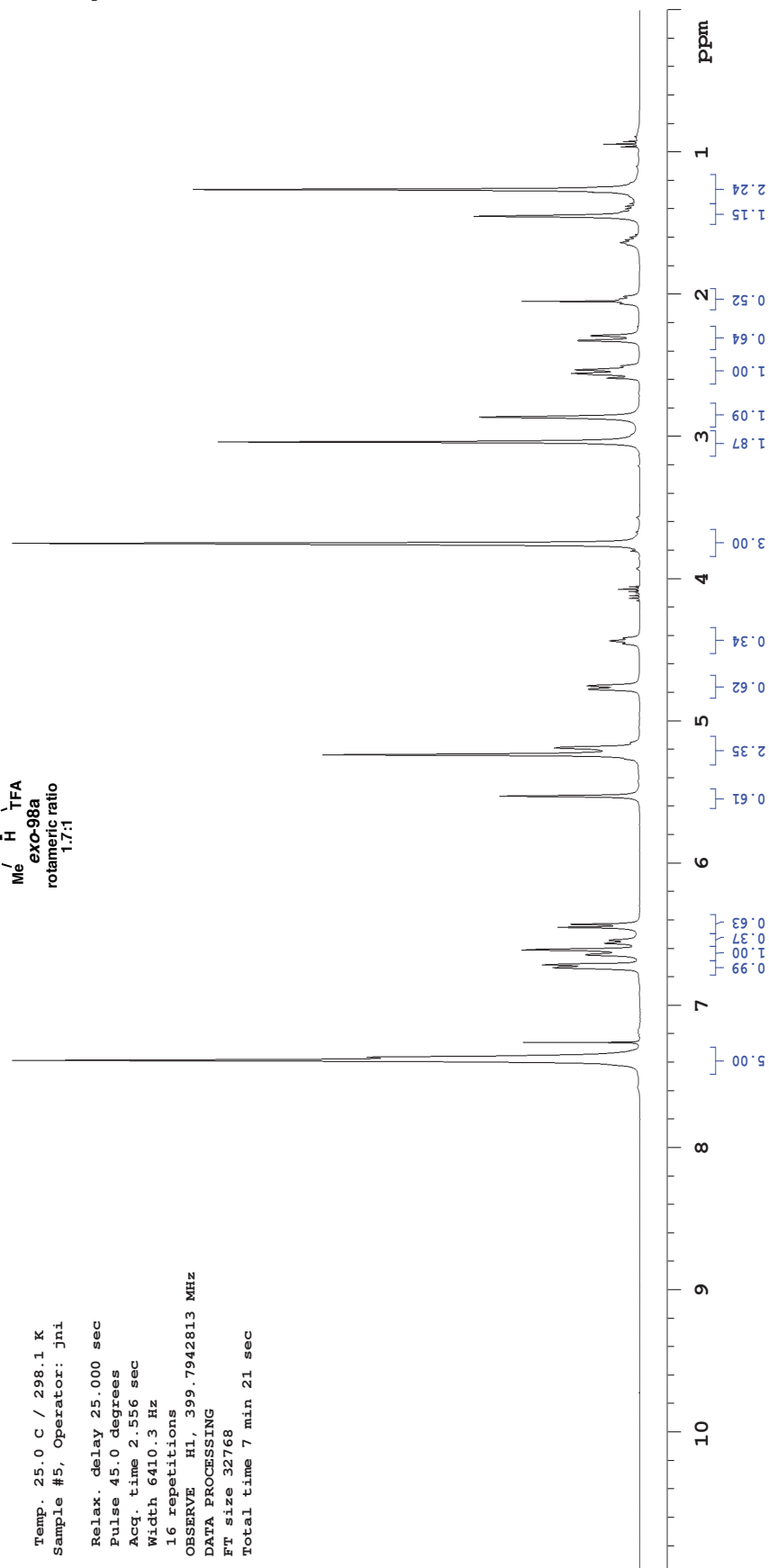
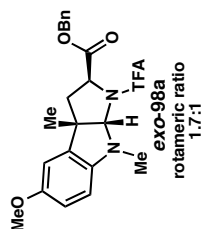
16 repetitions

OBSERVE H1, 399.7942813 MHz

DATA PROCESSING

FT size 32768

Total time 7 min 21 sec



JN-1-191-majordiast

Sample Name:

JN-1-191-majordiast
Data Collected on:
siena.caltech.edu-vmrs400
Archive directory:
/home/jni/vmrsys/data
Sample directory:
JN-1-191-majordiast
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 19 2010

Temp. 25.0 C / 298.1 K
Sample #5, Operator: jni

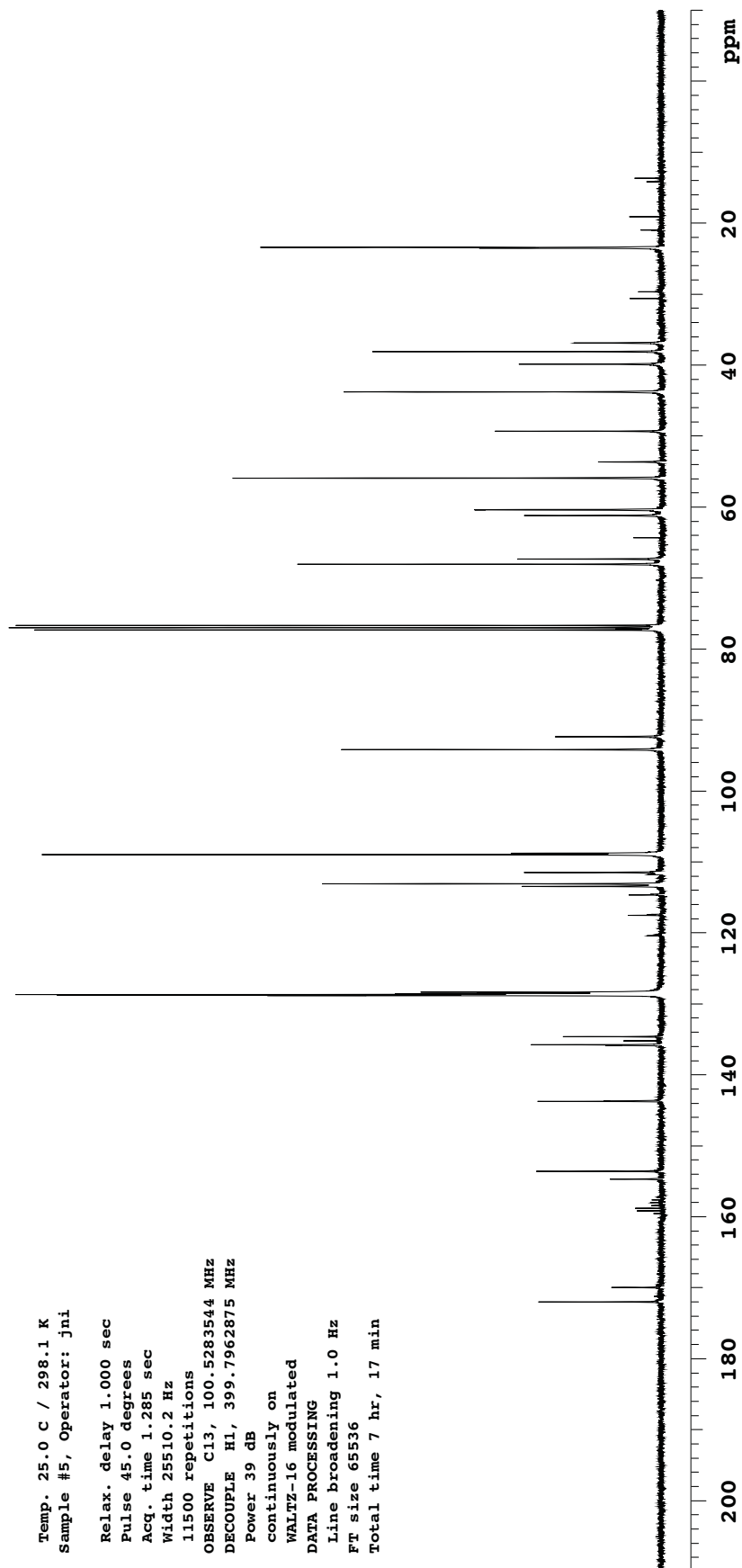
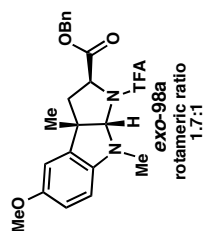
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.285 sec
Width 25510.2 Hz
11500 repetitions

OBSERVE C13, 100.5283544 MHz
DECOUPLE H1, 399.7962875 MHz

Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz
FT size 65536
Total time 7 hr, 17 min



JN-1-191-minordiast

Sample Name:

JN-1-191-minordiast

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/janeni/vnmrsys/data

Sample directory:

JN-1-191-minordiast

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Jul 18 2010

Temp. 25.0 C / 298.1 K

Operator: janeni

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.500 sec

Width 8000.0 Hz

16 repetitions

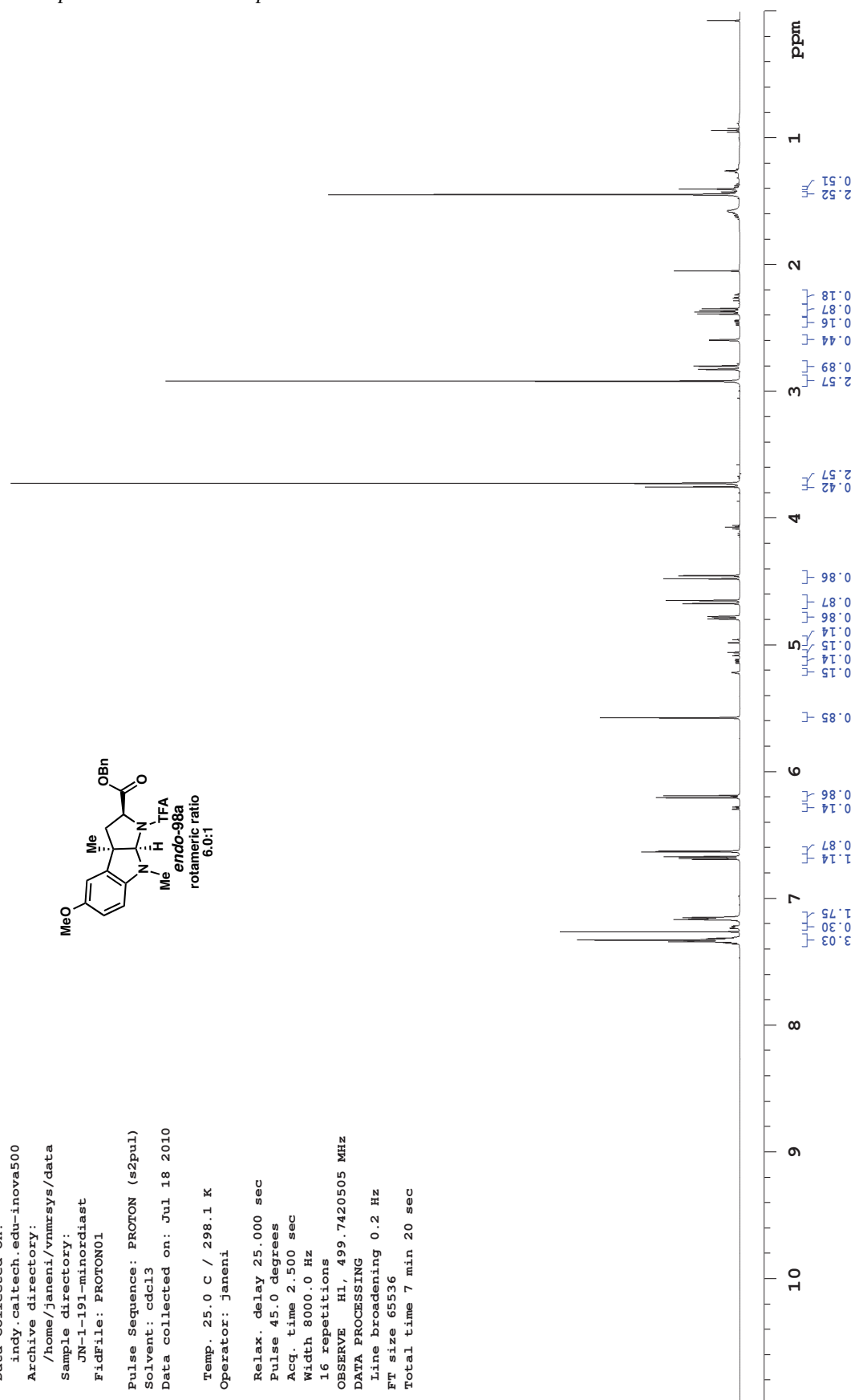
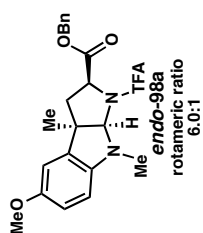
OBSERVE H1, 499.7420505 MHz

DATA PROCESSING

Line broadening 0.2 Hz

FT size 65536

Total time 7 min 20 sec



JN-1-191-minordiast

Sample Name:

JN-1-191-minordiast

Data Collected on:

indy.caltech.edu-inoa500

Archive directory:

/home/janeni/vnmrsys/data

Sample directory:

JN-1-191-minordiast

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 18 2010

Temp. 25.0 C / 298.1 K

Operator: janeni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.042 sec

Width 31446.5 Hz

12000 repetitions

OBSERVE C13, 125.6602389 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

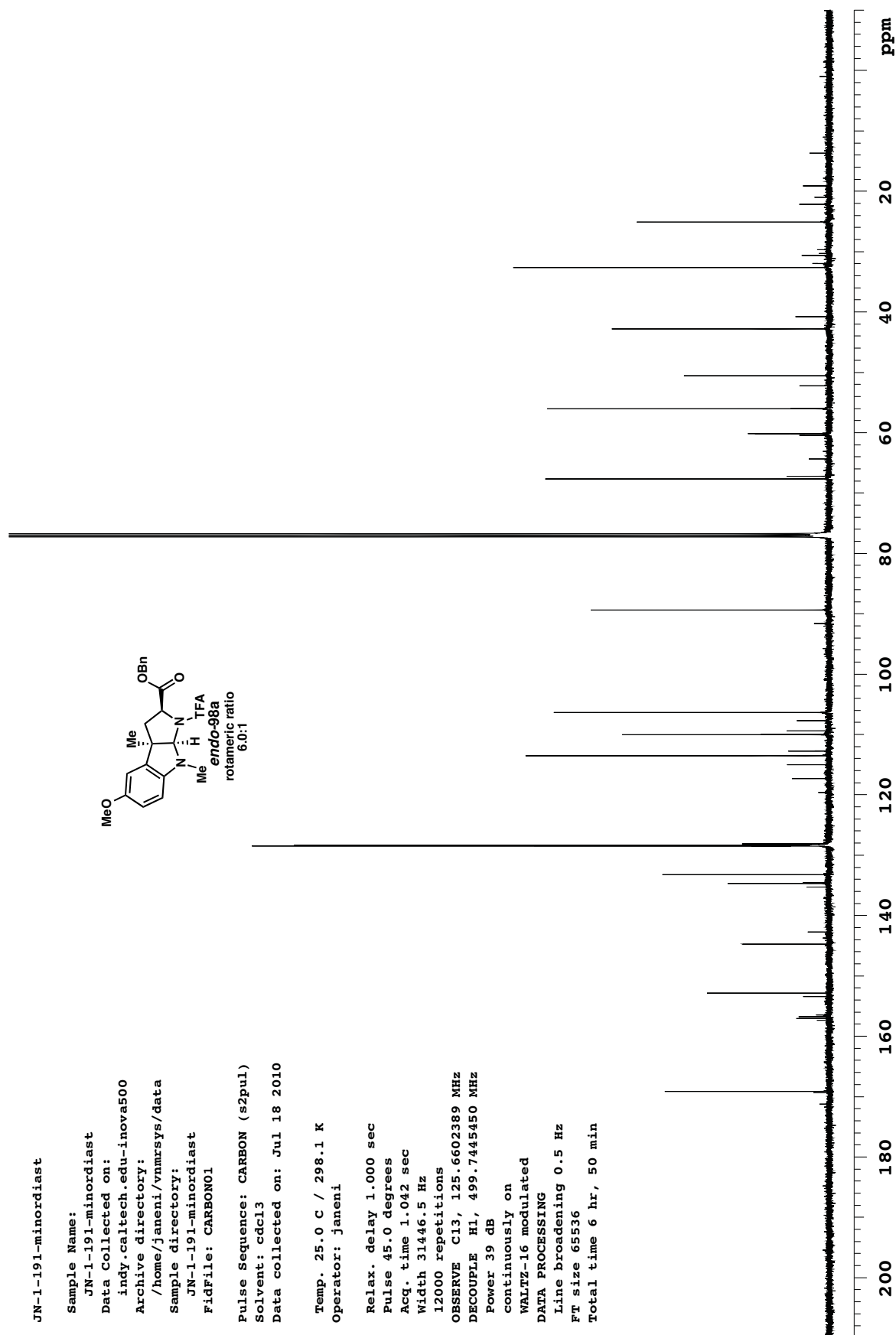
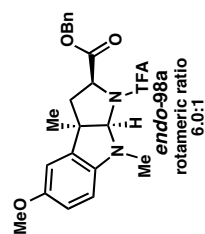
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 6 hr, 50 min



JN-1-195-majordiast4

Sample Name:

JN-1-195-majordiast4

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/janeni/vnmrsys/data

Sample directory:

JN-1-195-majordiast4

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Jul 16 2010

Temp. 25.0 C / 298.1 K

Operator: janeni

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.500 sec

Width 8000.0 Hz

16 repetitions

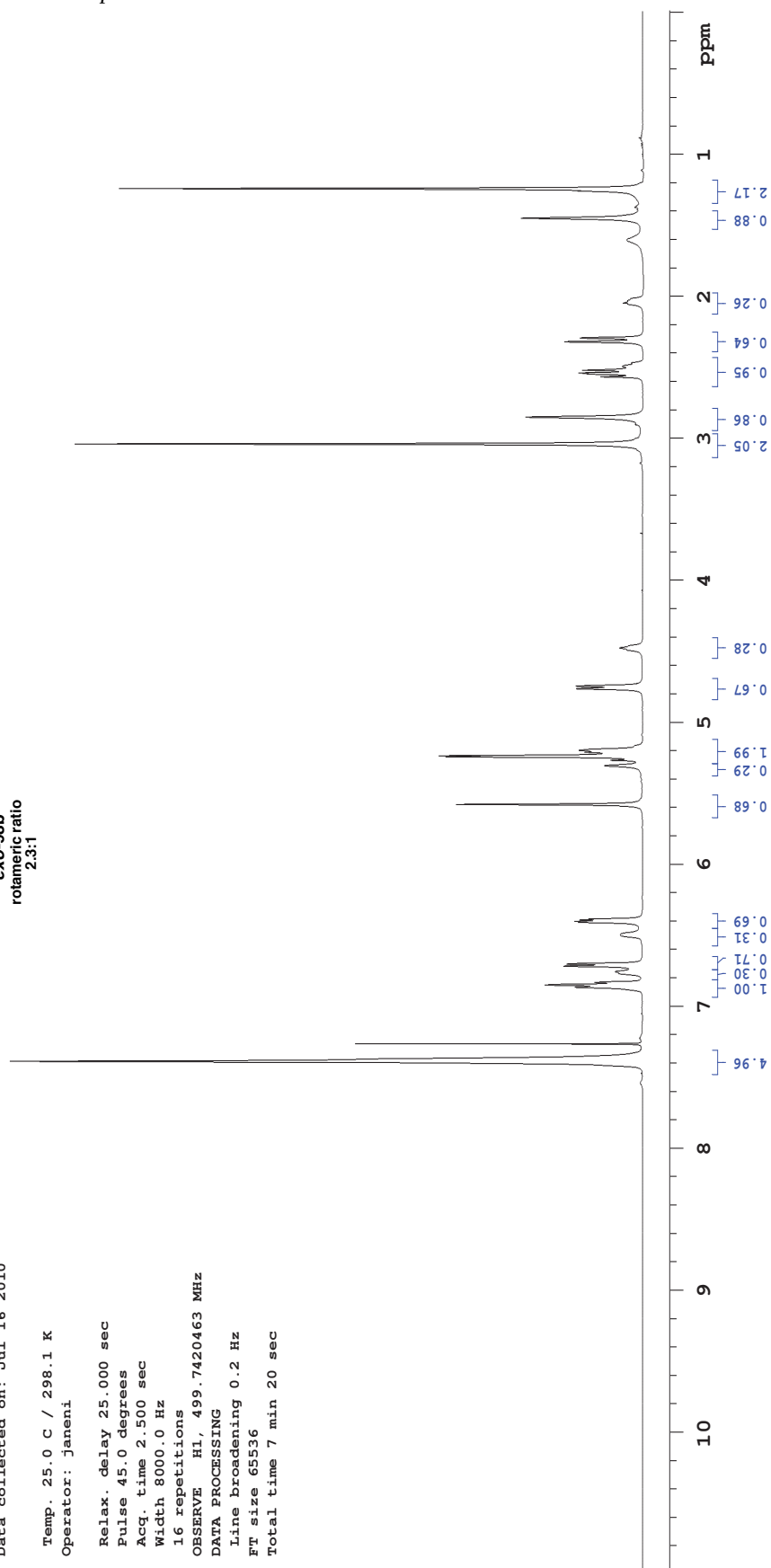
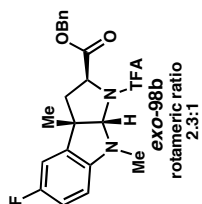
OBSERVE H1, 499.7420463 MHz

DATA PROCESSING

Line broadening 0.2 Hz

FT size 65536

Total time 7 min 20 sec



JN-1-195-majordiast4

Sample Name:
JN-1-195-majordiast4
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/janeni/vnmrsys/data
Sample directory:
JN-1-195-majordiast4
FidFile: CARBON01

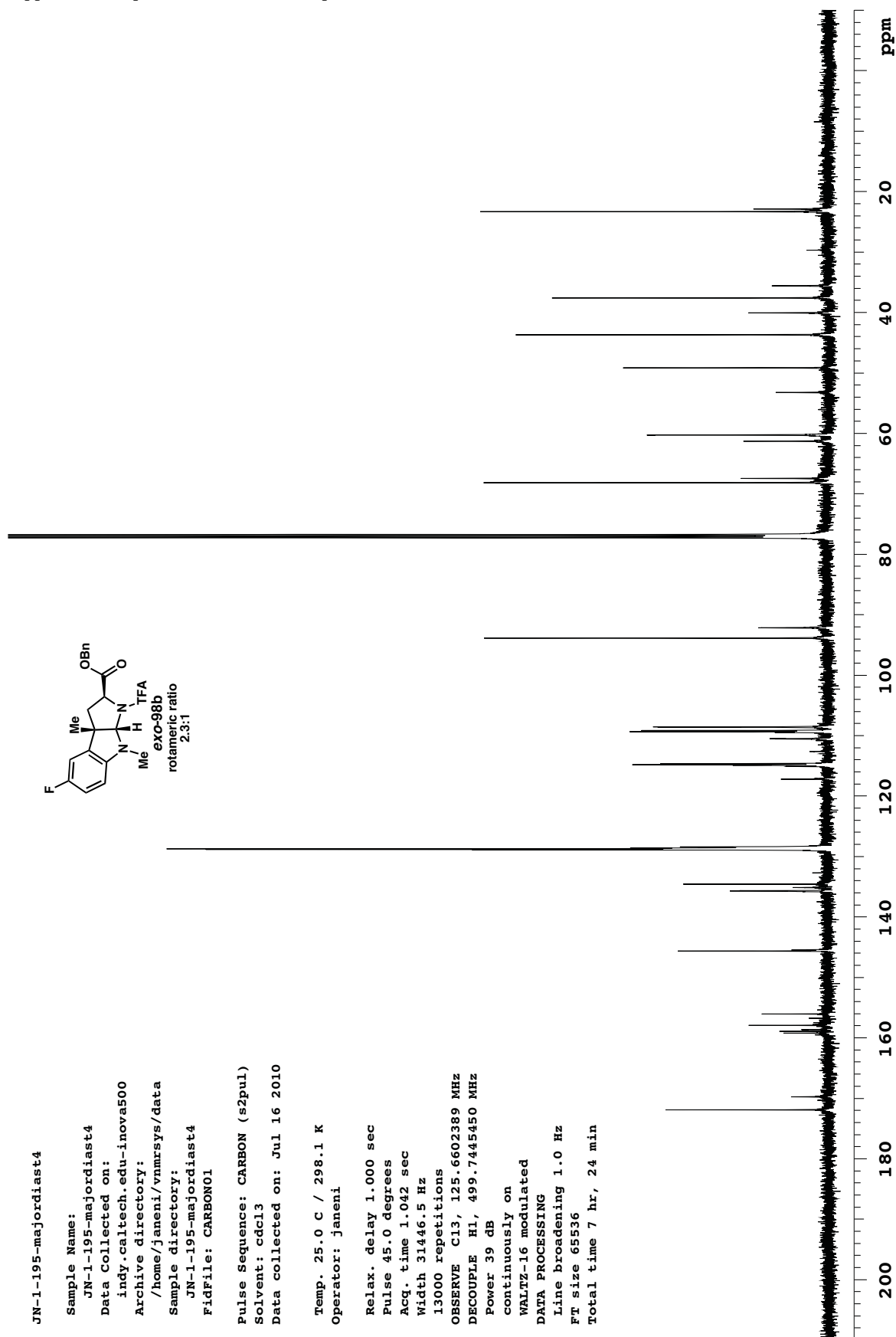
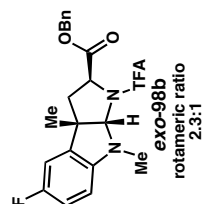
Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 16 2010

Temp. 25.0 C / 298.1 K
Operator: janeni

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
13000 repetitions

OBSERVE C13, 125.6602389 MHz
DECOUPLE H1, 499.7445450 MHz

Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 65536
Total time 7 hr, 24 min



JN-1-195-minordiast

Sample Name:

JN-1-195-minordiast

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/janeni/vnmrsys/data

Sample directory:

JN-1-195-minordiast

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Jul 15 2010

Temp. 25.0 C / 298.1 K

Operator: Janeni

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.500 sec

Width 8000.0 Hz

16 repetitions

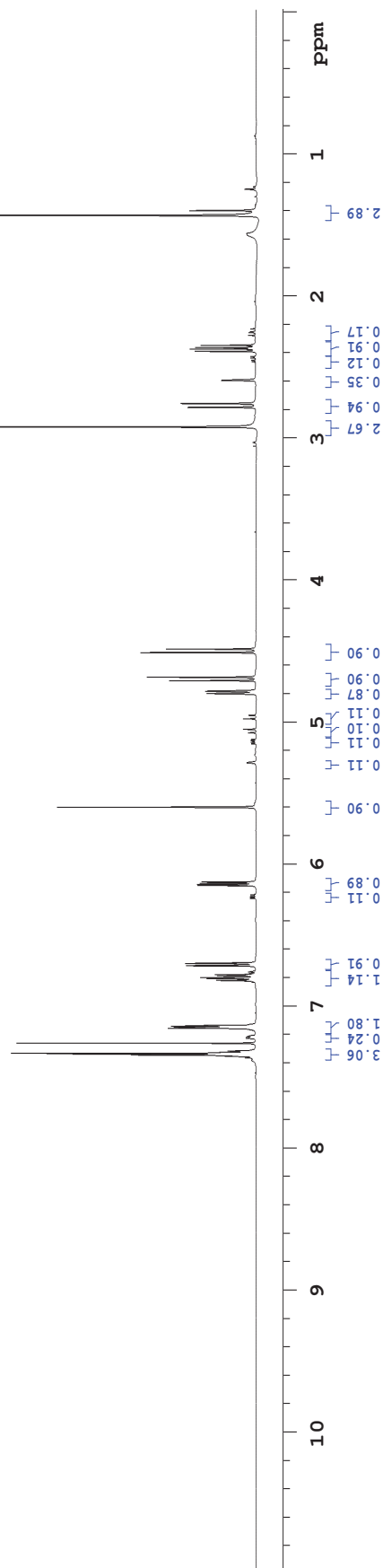
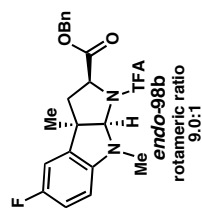
OBSERVE H1, 499.7420463 MHz

DATA PROCESSING

Line broadening 0.2 Hz

FT size 65536

Total time 7 min 20 sec



JN-1-195-minordiast

Sample Name:

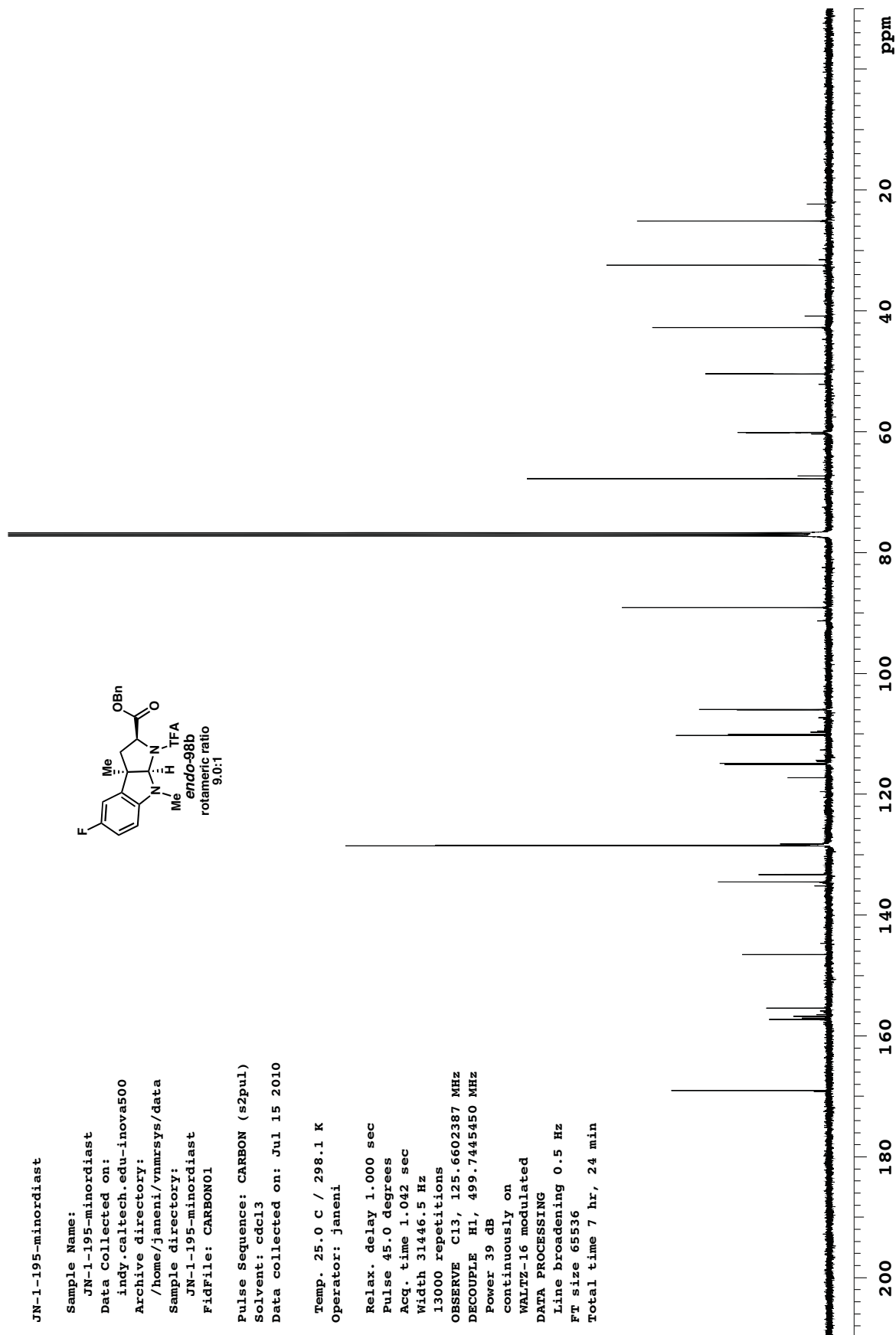
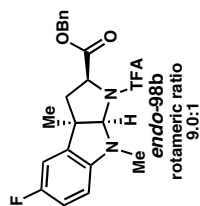
JN-1-195-minordiast
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/janeni/vnmrsys/data
Sample directory:
JN-1-195-minordiast
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 15 2010

Temp. 25.0 C / 298.1 K
Operator: janeni

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
13000 repetitions

OBSERVE C13, 125.6602387 MHz
DECOUPLE H1, 499.7445450 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
Ft size 65536
Total time 7 hr, 24 min



JN-1-171-majdiast

Sample Name:

JN-1-171-majdiast

Data Collected on:

sienna.caltech.edu-vnmrs400

Archive directory:

/home/jni/vnmrsys/data

Sample directory:

JN-1-171-majdiast

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Jul 14 2010

Temp. 25.0 C / 298.1 K

Sample #4, Operator: jni

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.556 sec

Width 6410.3 Hz

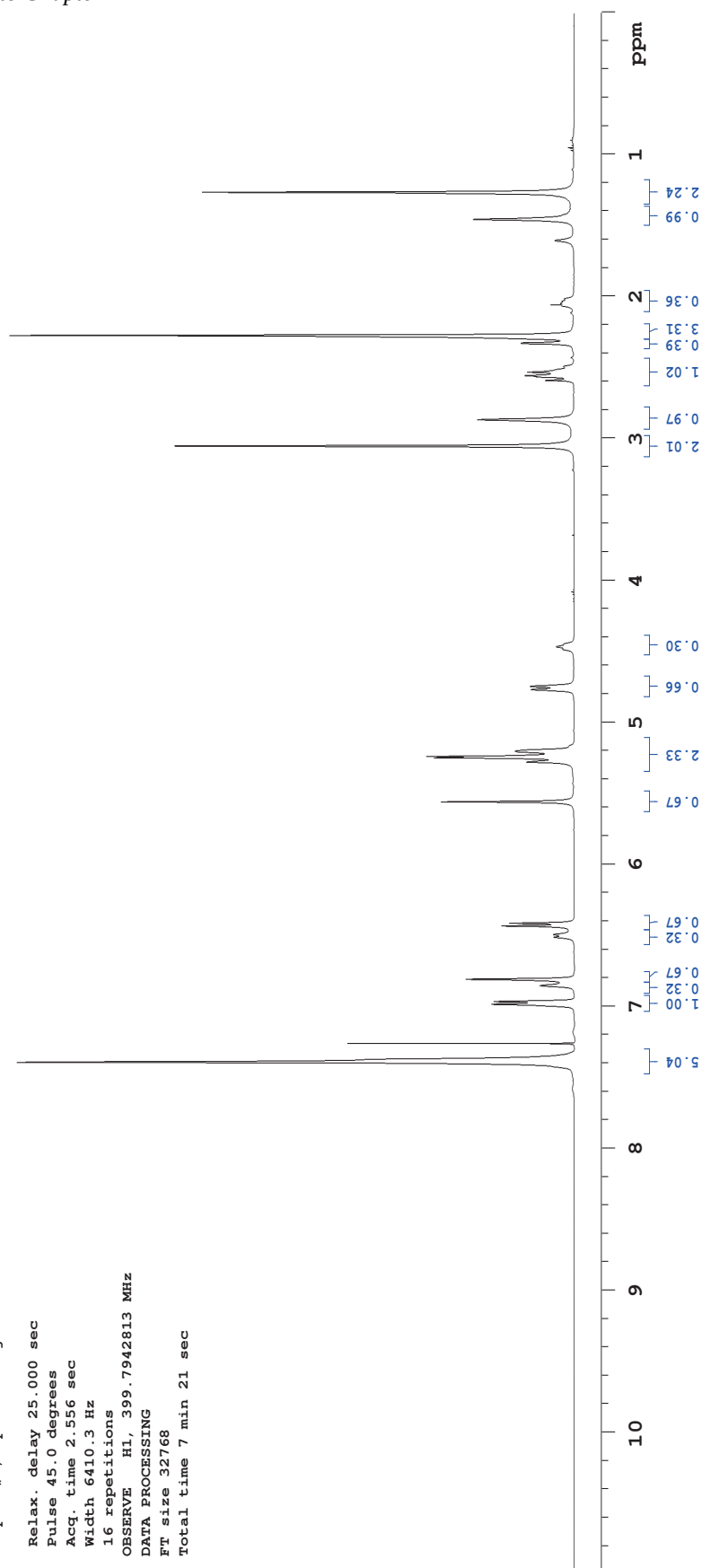
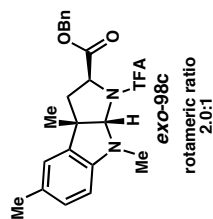
16 repetitions

OBSERVE H1, 399.7942813 MHz

DATA PROCESSING

FT size 32768

Total time 7 min 21 sec



JN-1-171-majdiast

Sample Name:

JN-1-171-majdiast
Data Collected on:
siena.caltech.edu-vmrs400
Archive directory:
/home/jni/vmrsys/data
Sample directory:
JN-1-171-majdiast
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 14 2010

Temp. 25.0 C / 298.1 K
Sample #4, Operator: jni

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.285 sec
Width 25510.2 Hz
11000 repetitions

OBSERVE C13, 100.5283542 MHz
DECOUPLE H1, 399.7962875 MHz

Power 39 dB

continuously on

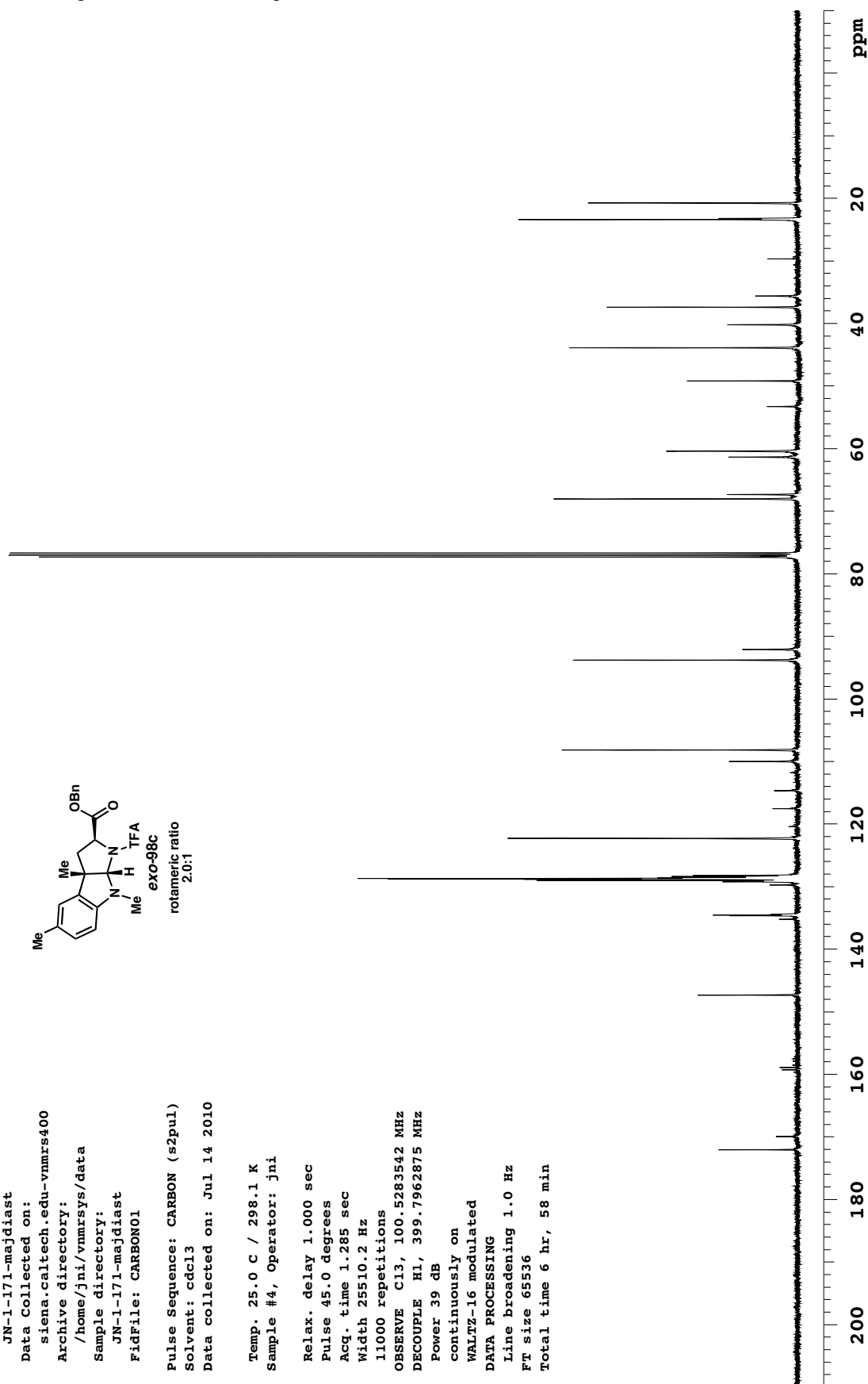
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 65536

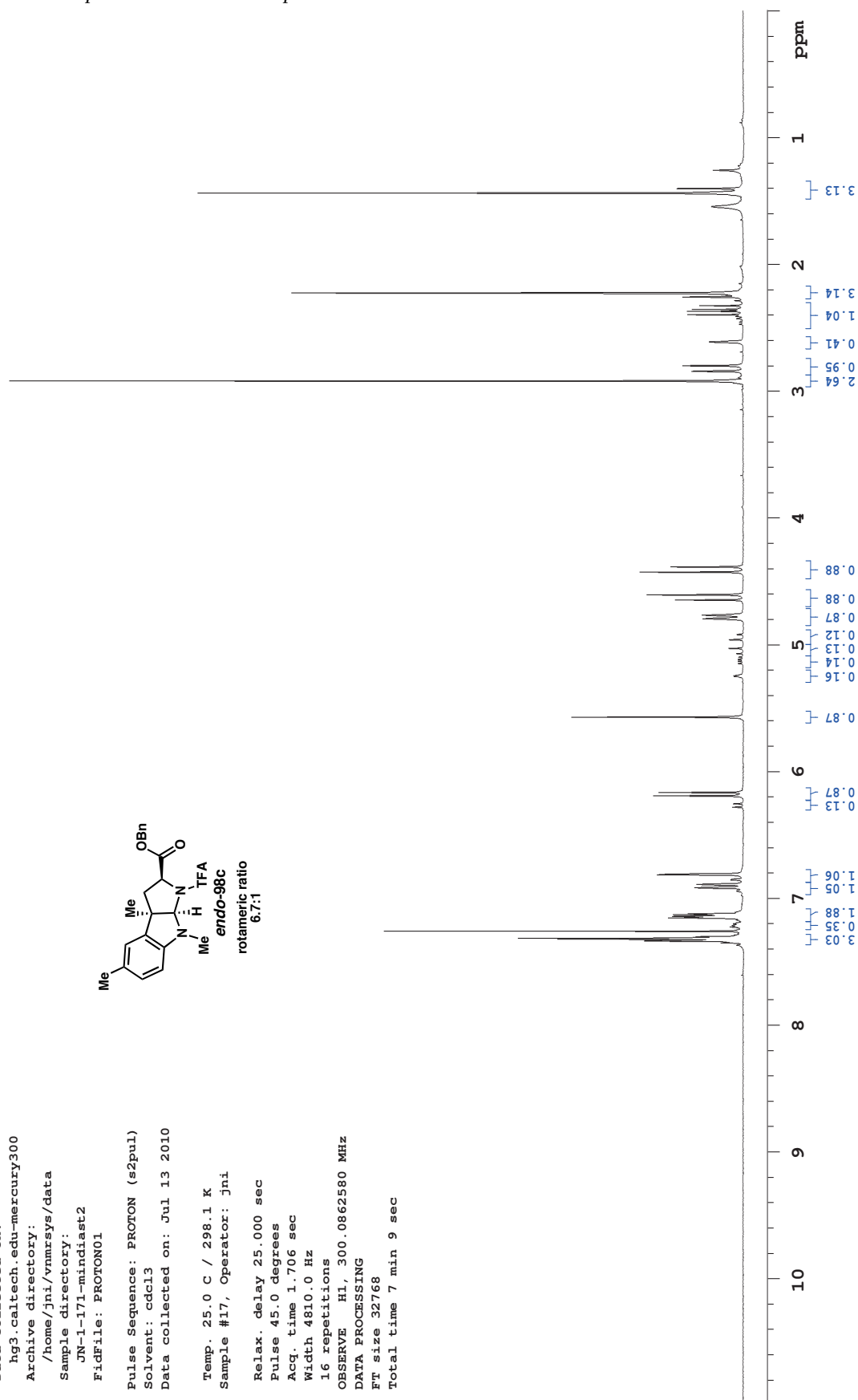
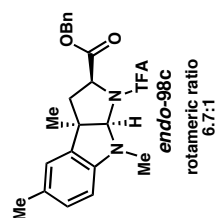
Total time 6 hr, 58 min



JN-1-171-mindia2

Sample Name:
JN-1-171-mindia2
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/jni/vnmrsys/data
Sample directory:
JN-1-171-mindia2
FidFile: PROTON01
Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 13 2010

Temp. 25.0 C / 298.1 K
Sample #17, Operator: jni
Relax. delay 25.000 sec
Pulse 45.0 degrees
Acq. time 1.706 sec
Width 4810.0 Hz
16 repetitions
OBSERVE H1, 300.0862580 MHz
DATA PROCESSING
FT size 32768
Total time 7 min 9 sec



JN-1-171-minordiast2

Sample Name:
JN-1-171-minordiast2
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/janeni/vnmrsys/data
Sample directory:
JN-1-171-minordiast2
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 14 2010

Temp. 25.0 C / 298.1 K
Operator: janeni

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
13000 repetitions

OBSERVE C13, 125.6602382 MHz
DECOUPLE H1, 499.7445450 MHz
Power 39 dB

continuously on

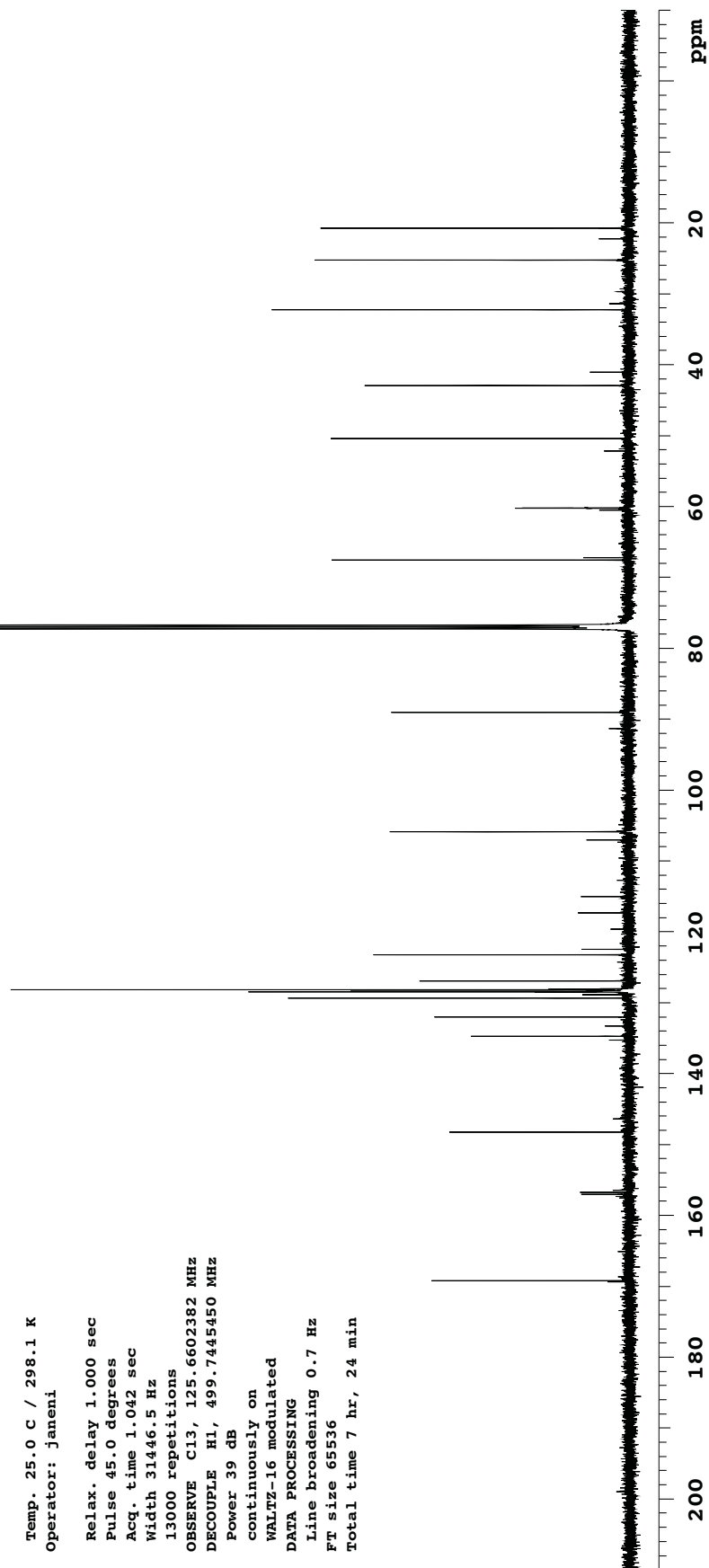
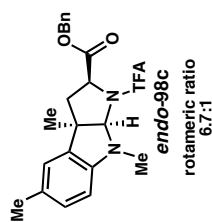
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.7 Hz

FT size 65536

Total time 7 hr, 24 min



LMRIV-177-major-dr-hsqc2

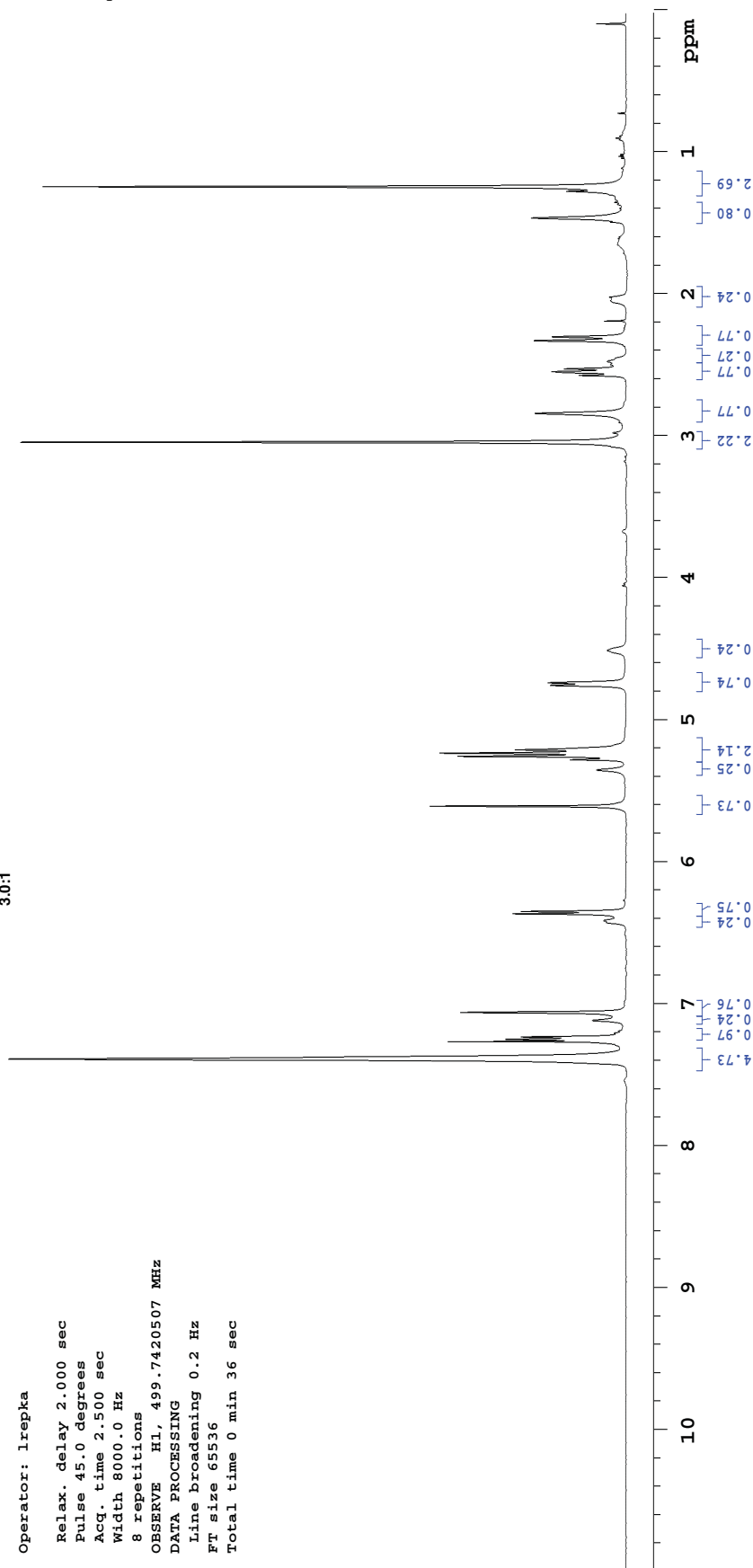
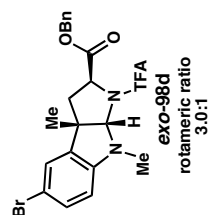
Sample Name:

LMRIV-177-major-dr-hsqc2
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/lrepka/vnmrsys/data
Sample directory:
LMRIV-177-major-dr-hsqc2
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 31 2010

Operator: lrepka

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7420507 MHz
DATA PROCESSING
Line broadening 0.2 Hz
Ft size 65536
Total time 0 min 36 sec



LMRIV-177-major-dr-7-31-10

Sample Name:

LMRIV-177-major-dr-7-31-10

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-177-major-dr-7-31-10

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 31 2010

Operator: lrepka

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.022 sec

Width 32051.3 Hz

13250 repetitions

OBSERVE C13, 125.6602418 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

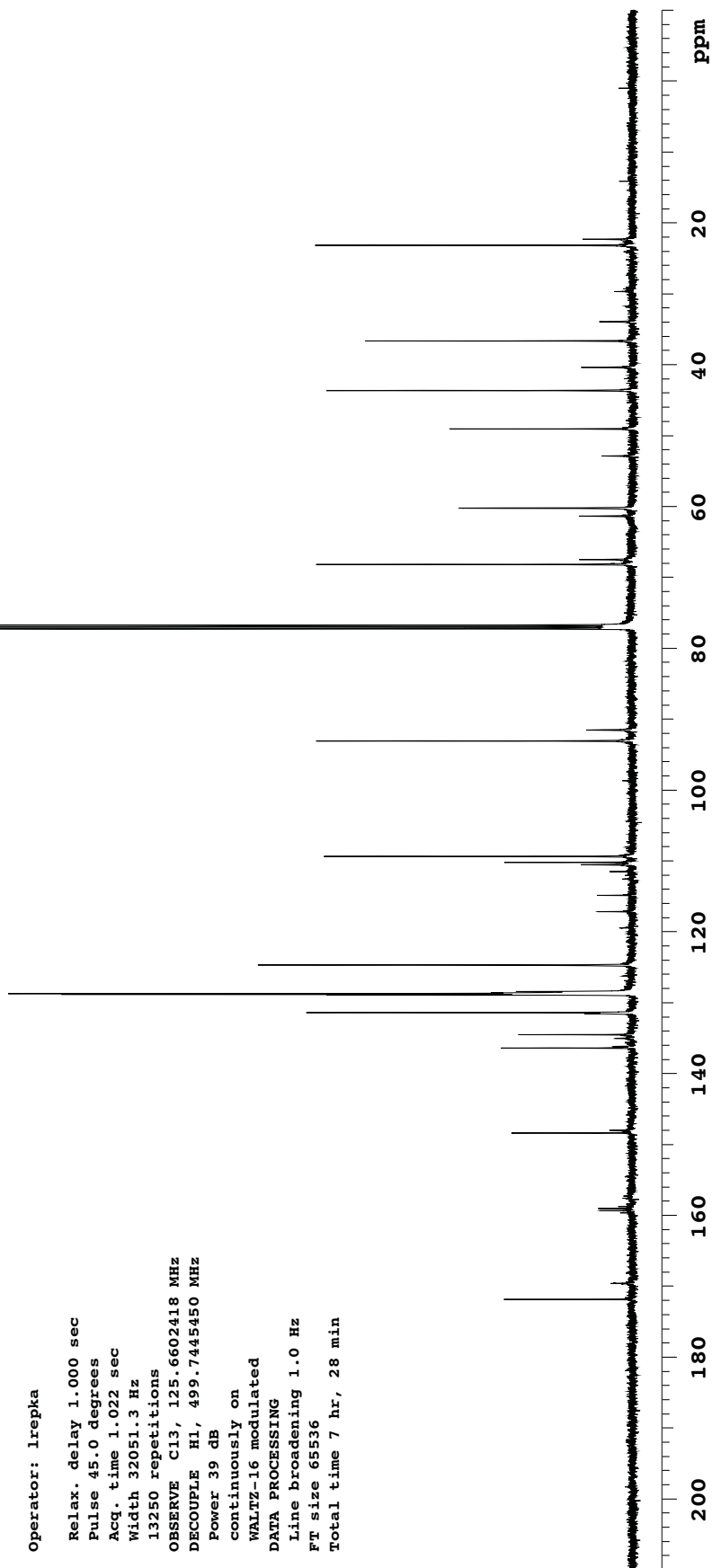
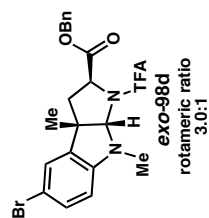
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 65536

Total time 7 hr, 28 min



LMRIV-177-minordr-hs qc

Sample Name:

LMRIV-177-minordr-hs qc

Data Collected on:

indy.caltech.edu-ino va500

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-177-minordr-hs qc

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Aug 1 2010

Operator: lrepka

Relax. delay 2.000 sec

Pulse 45.0 degrees

Acq. time 2.500 sec

Width 8000.0 Hz

8 repetitions

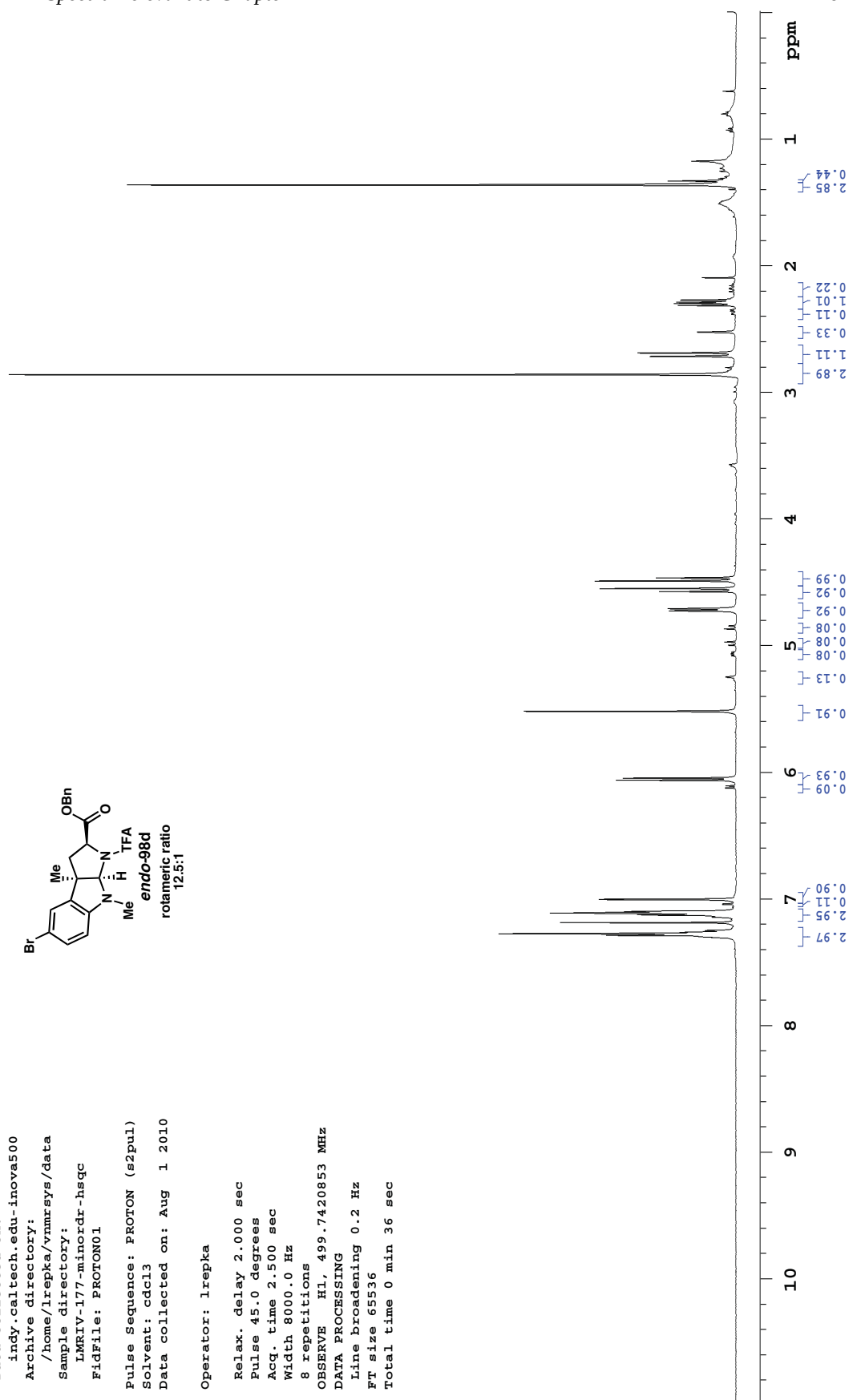
OBSERVE H1, 499.7420853 MHz

DATA PROCESSING

Line broadening 0.2 Hz

FT size 65536

Total time 0 min 36 sec



LMRIV-177-minordr

Sample Name:

LMRIV-177-minordr

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-177-minordr

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Jul 27 2010

Operator: lrepka

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.042 sec

Width 31446.5 Hz

13000 repetitions

OBSERVE C13, 125.6602413 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

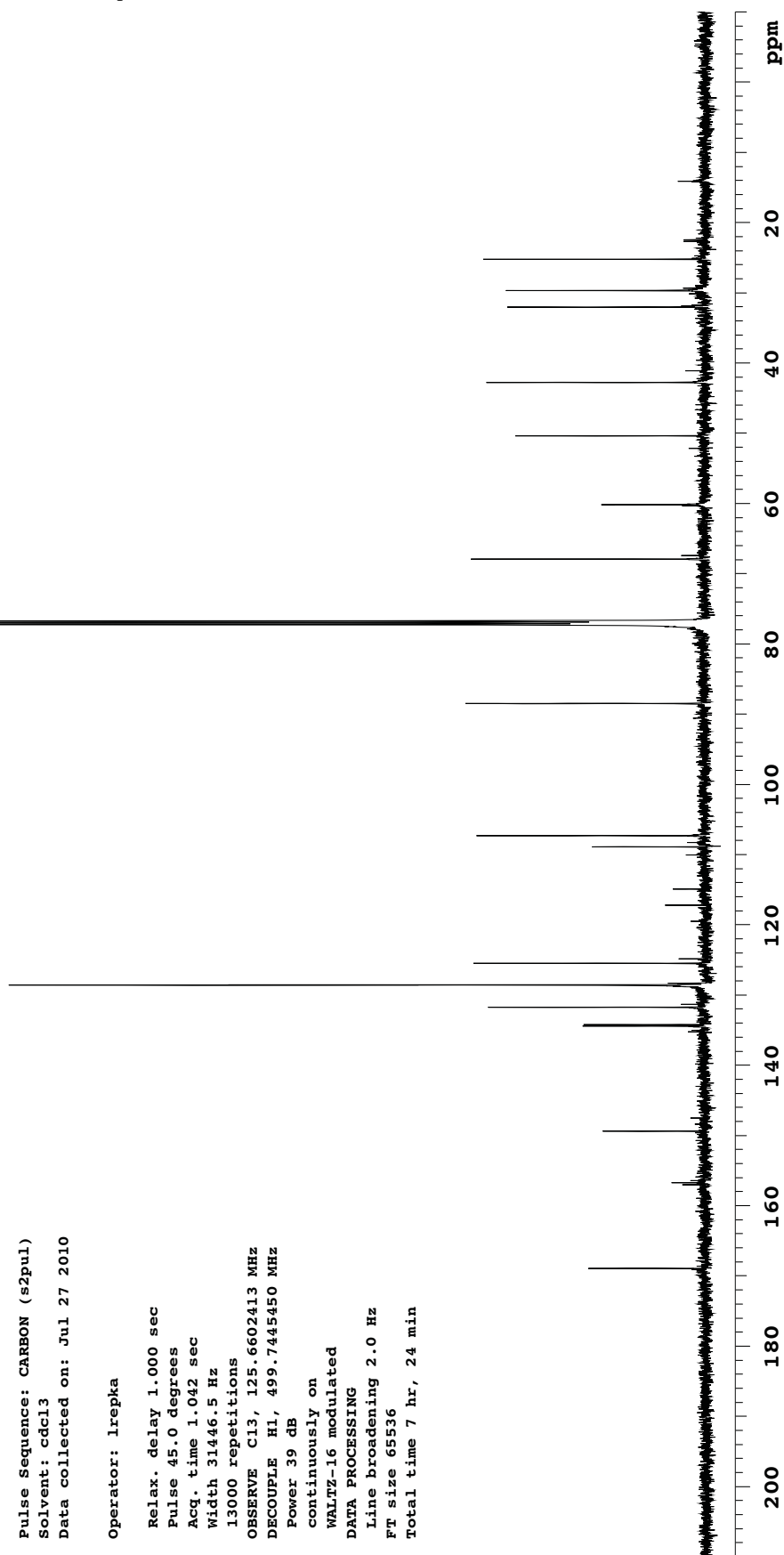
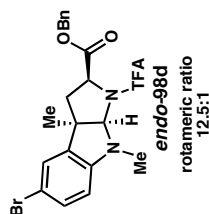
WALTZ-16 modulated

DATA PROCESSING

Line broadening 2.0 Hz

FT size 65536

Total time 7 hr, 24 min



JN-1-215-majordiast2

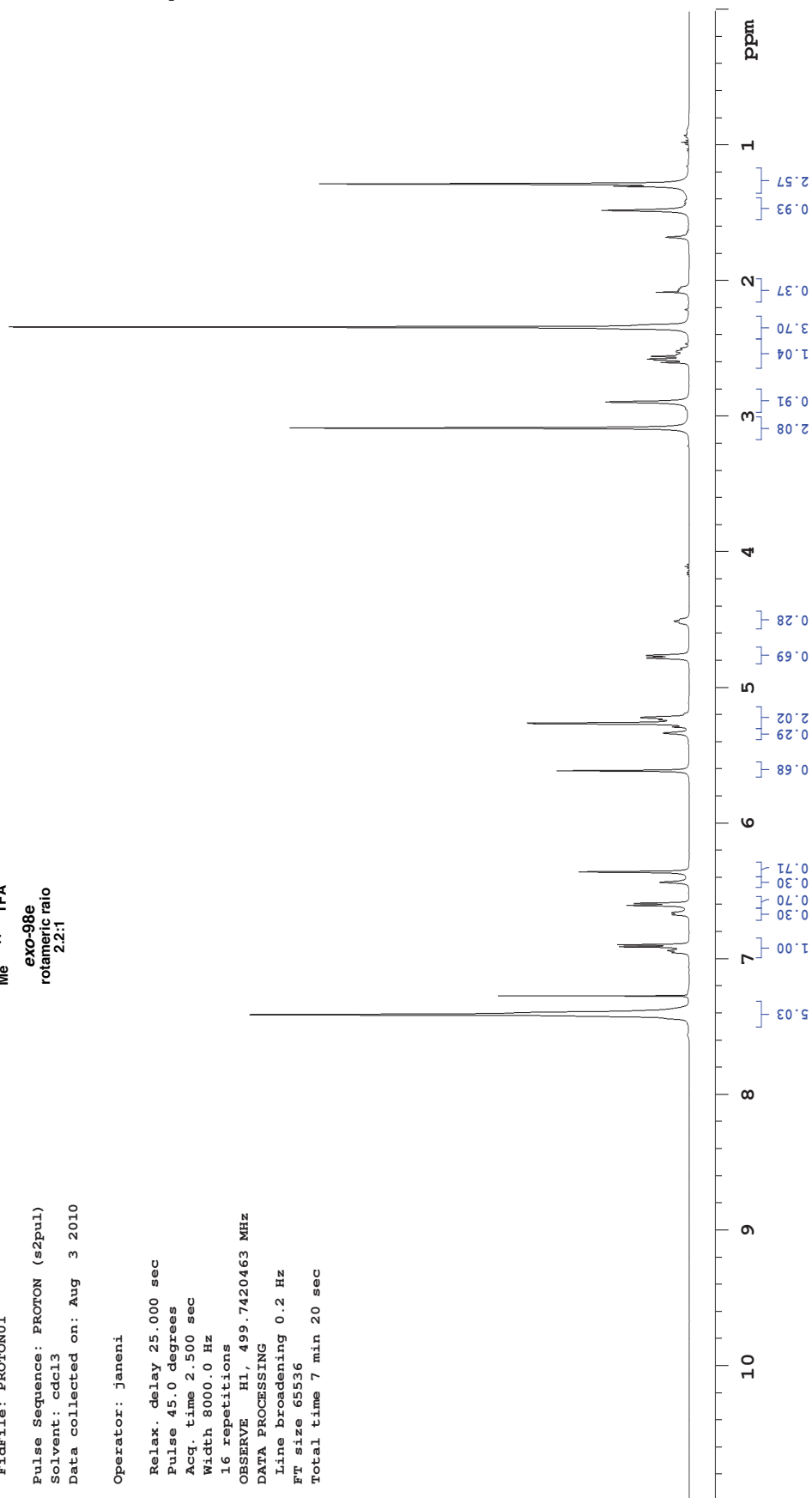
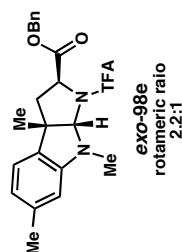
Sample Name:
JN-1-215-majordiast2
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/janeni/vnmrsys/data
Sample directory:
JN-1-215-majordiast2
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Aug 3 2010

Operator: janeni

Relax. delay 25.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions

OBSERVE H1, 499.7420463 MHz
DATA PROCESSING
Line broadening 0.2 Hz
Ft size 65536
Total time 7 min 20 sec



JN-1-215-majordiast2

Sample Name:

JN-1-215-majordiast2

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/janeni/vnmrSYS/data

Sample directory:

JN-1-215-majordiast2

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Aug 3 2010

Operator: janeni

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.042 sec

Width 31446.5 Hz

13000 repetitions

OBSERVE C13, 125.6602480 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

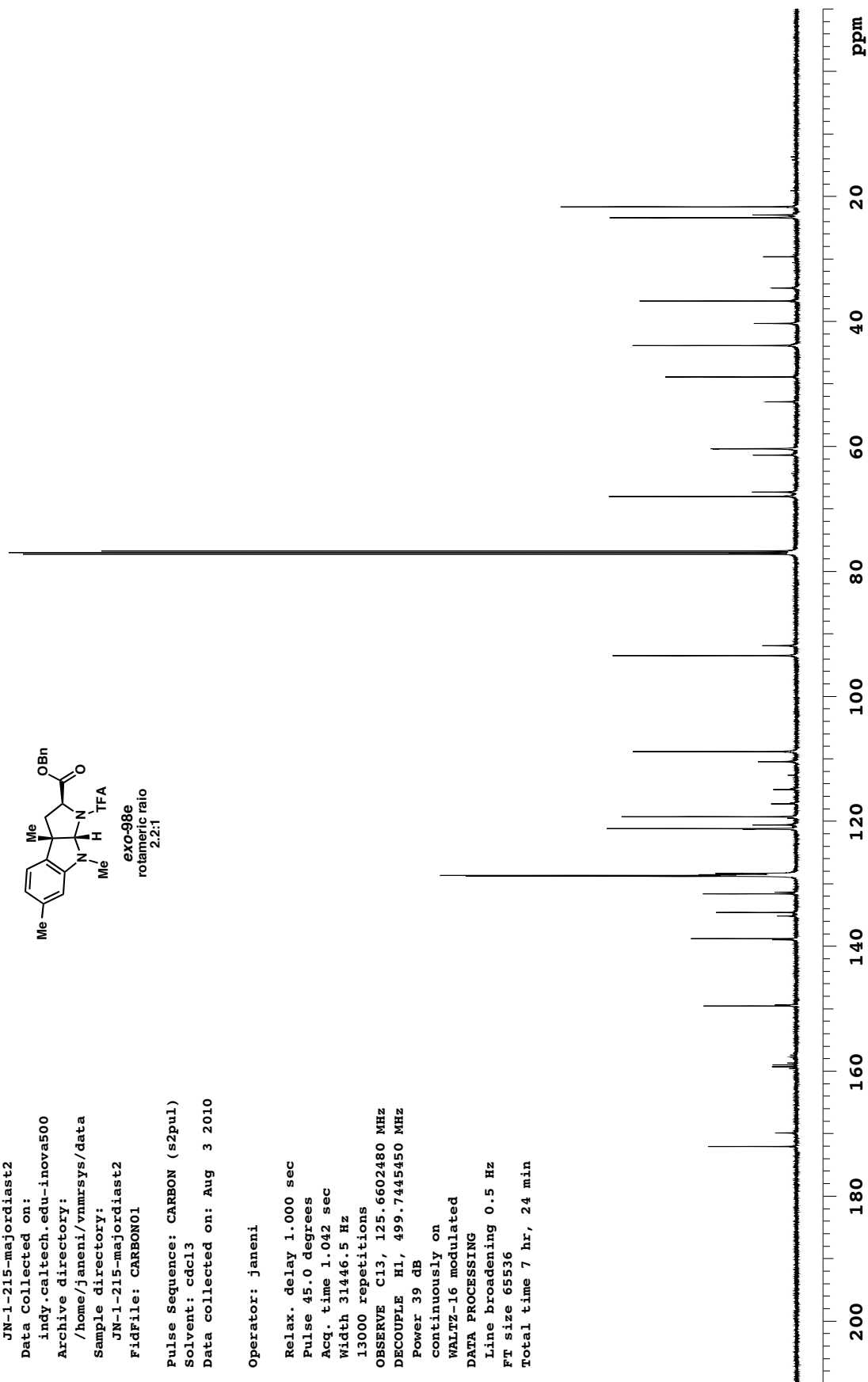
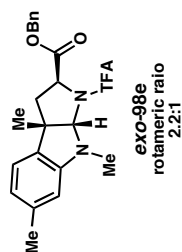
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 65536

Total time 7 hr, 24 min



```

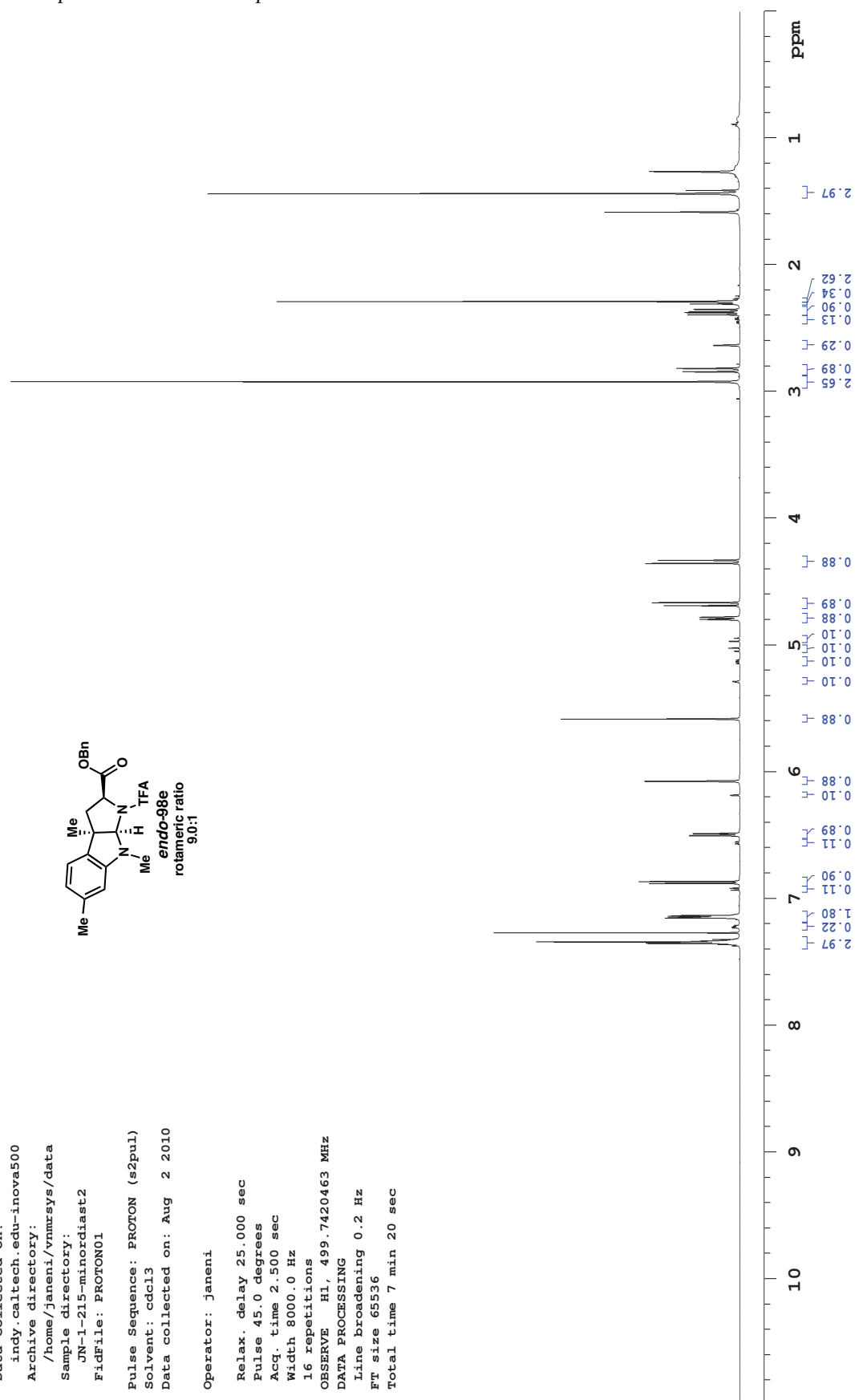
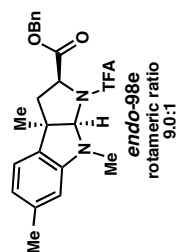
Sample Name:
  JN-1-215-minorindia2
Data Collected on:
  indy.caltech.edu-inova500
Archive directory:
  /home/janeni/vnmrsys/data
Sample directory:
  JN-1-215-minorindia2
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Aug  2 2010

Operator: janeni

Relax. delay 25,000 sec
Pulse 45.0 degrees
Acq. time 2,500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7420463 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 7 min 20 sec

```



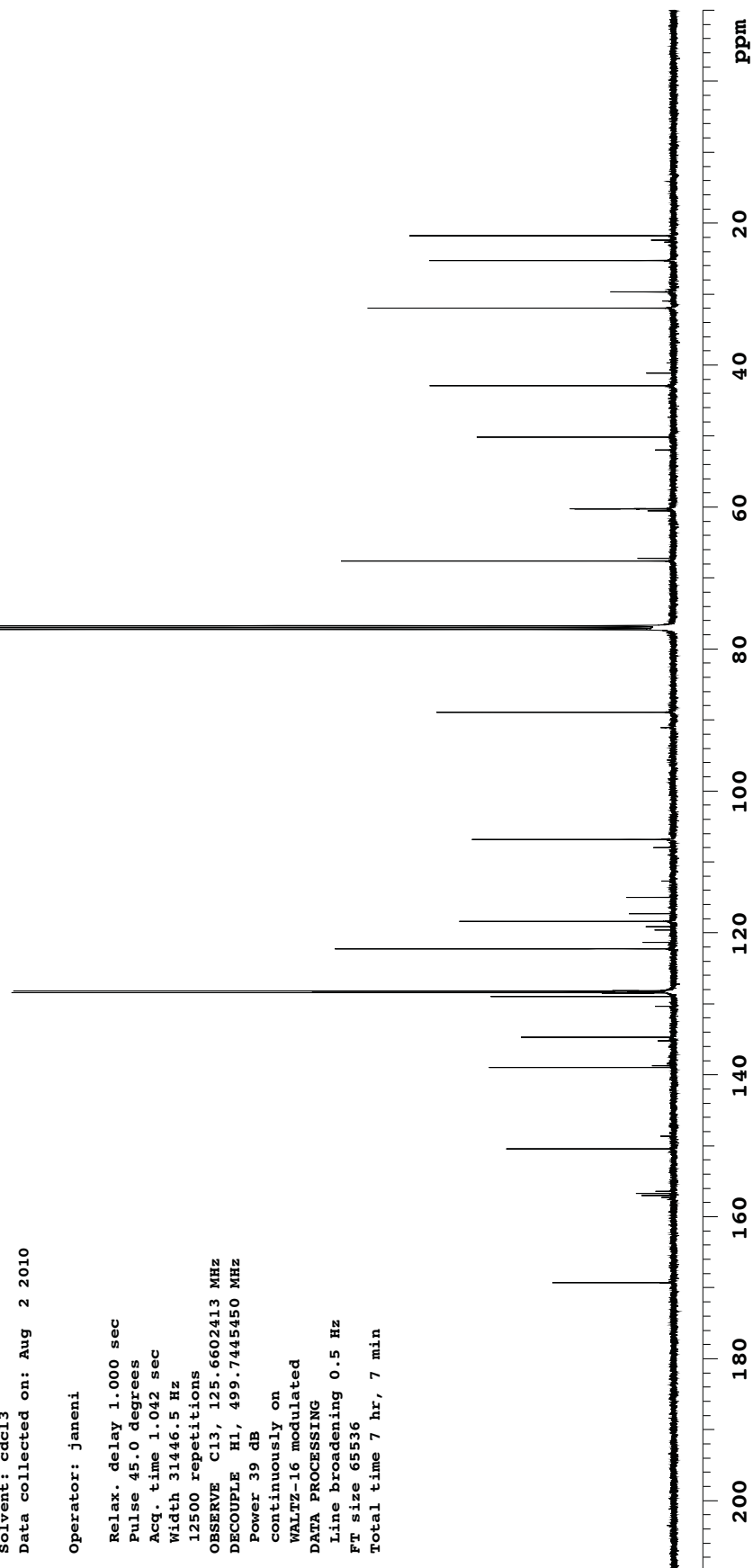
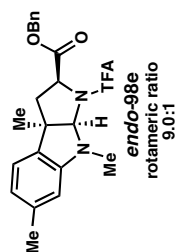
JN-1-215-minordiast2

Sample Name:
JN-1-215-minordiast2
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/janeni/vnmrsys/data
Sample directory:
JN-1-215-minordiast2
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Aug 2 2010

Operator: janeni

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
12500 repetitions
OBSERVE C13, 125.6602413 MHz
DECOUPLE H1, 499.7445450 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 7 hr, 7 min



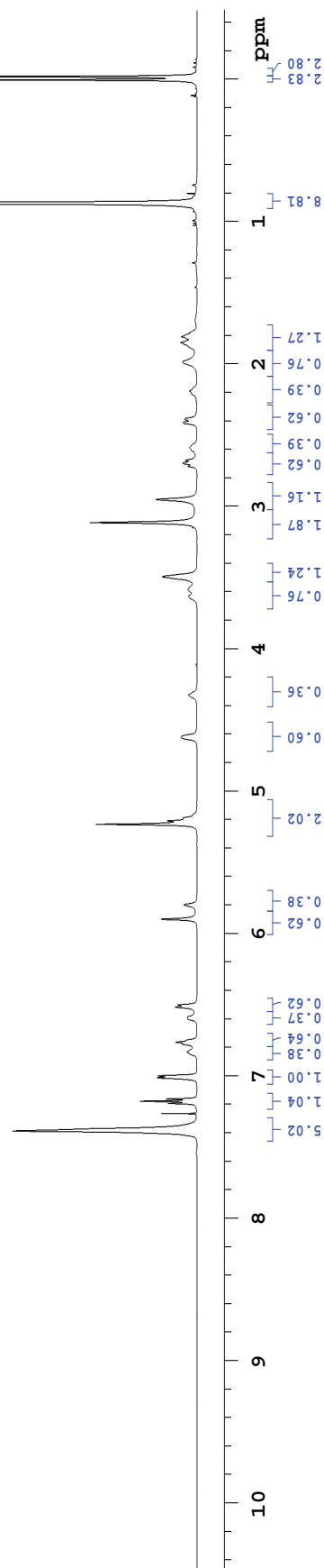
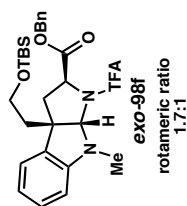
LMRIV-285-major-rd25

Sample Name:
 LMRIV-285-major-rd25
 Data Collected on:
 indy.caltech.edu-ino500
 Archive directory:
 /home/lrepka/vnmrsys/data
 Sample directory:
 LMRIV-285-major-rd25
 FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Jul 30 2010

Operator: lrepka

Relax. delay 25.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 8 repetitions
 OBSERVE H1, 499.7420502 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 3 min 40 sec



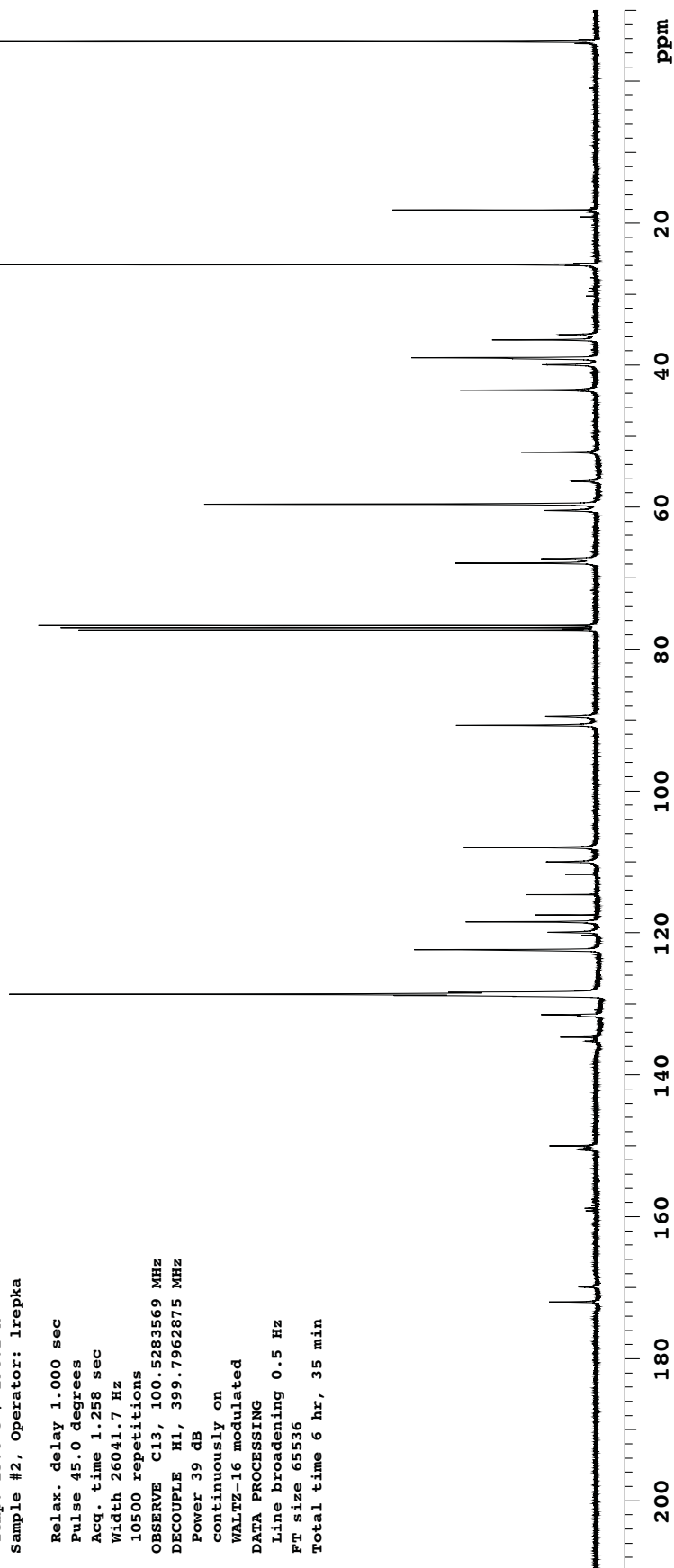
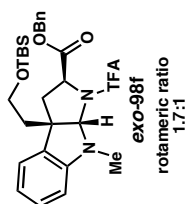
LMRIV-285-major-dr-2-again

Sample Name:
 LMRIV-285-major-dr-2-again
 Data Collected on:
 sienna.caltech.edu-vnmrs400
 Archive directory:
 /home/lrepka/vnmrsys/data
 Sample directory:
 LMRIV-285-major-dr-2-again
 FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
 Solvent: cdcl3
 Data collected on: Jul 30 2010

Temp. 25.0 C / 298.1 K
 Sample #2, Operator: lrepka

Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 1.258 sec
 Width 26041.7 Hz
 10500 repetitions
 OBSERVE C13, 100.5283569 MHz
 DECOUPLE H1, 399.7962875 MHz
 Power 39 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 65536
 Total time 6 hr, 35 min



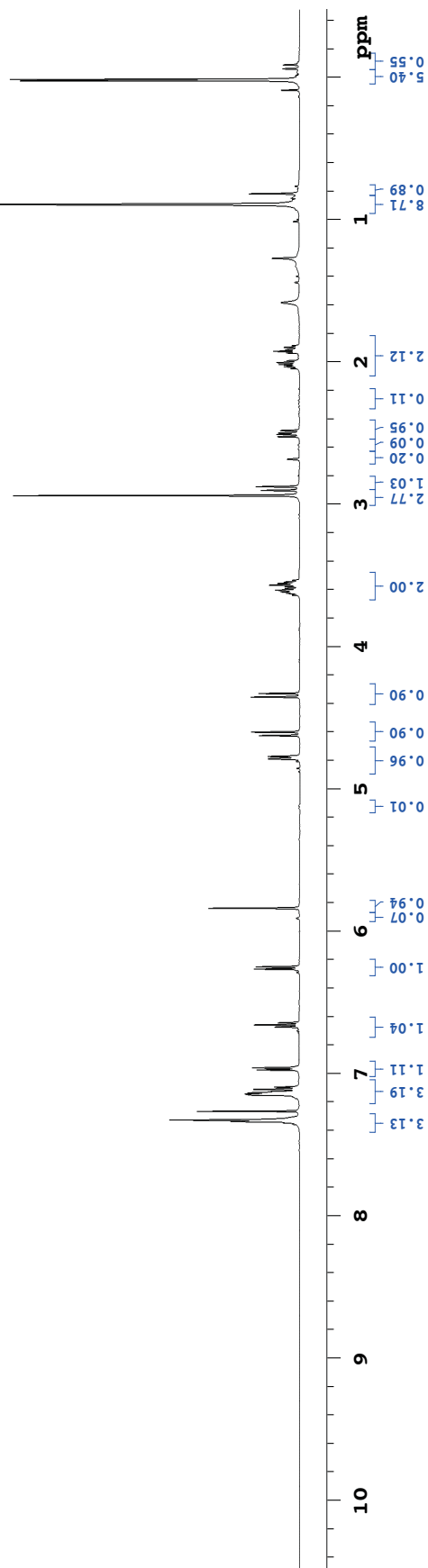
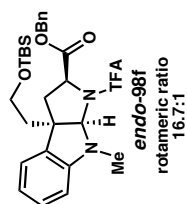
LMRIV-285-minor-rd25

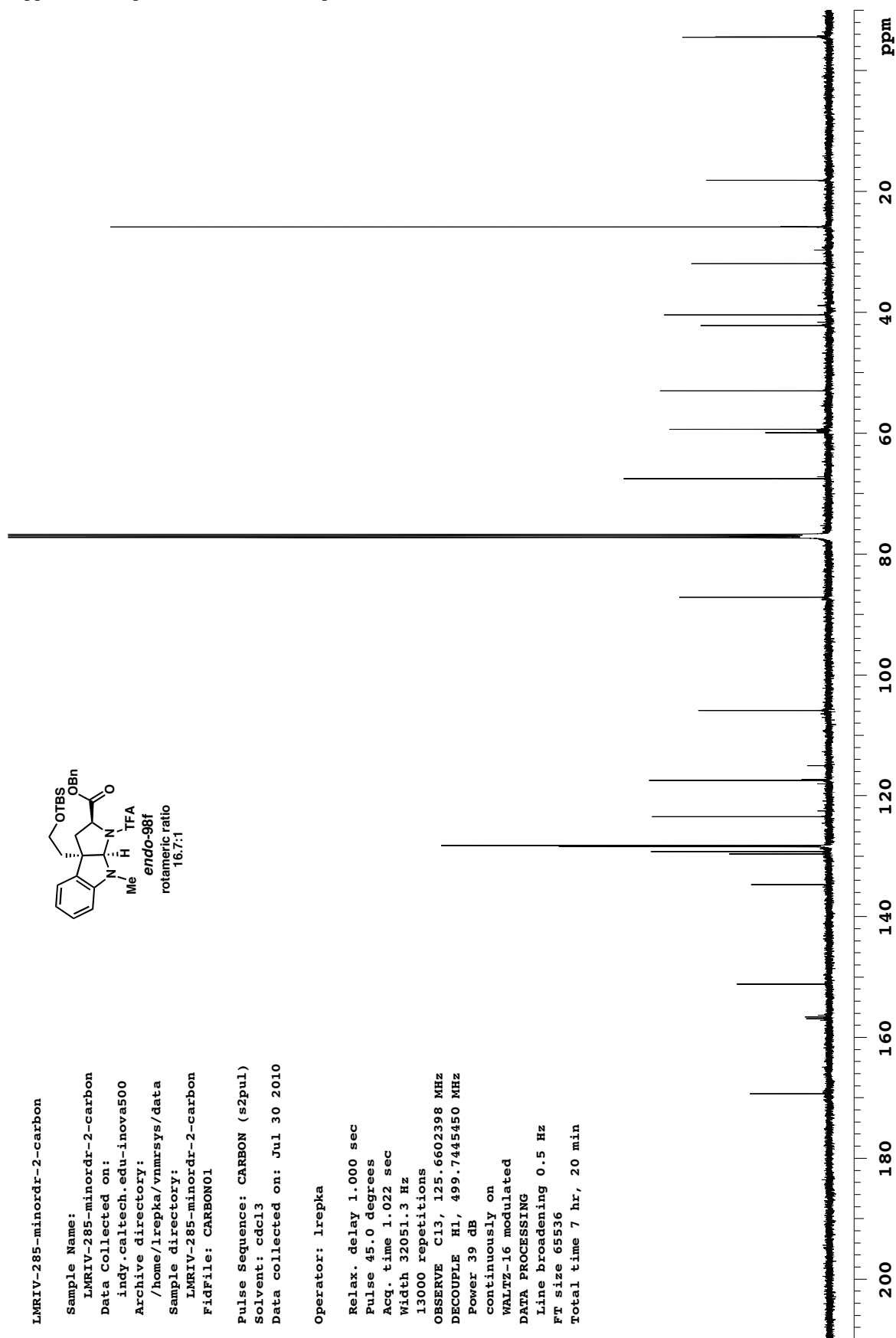
Sample Name:
 LMRIV-285-minor-rd25
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/lrepka/vnmrsys/data
 Sample directory:
 LMRIV-285-minor-rd25
 FIDfile: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Jul 30 2010

Operator: lrepka

Relax. delay 25.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 8 repetitions
 OBSERVE H1, 499.7420512 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 3 min 40 sec

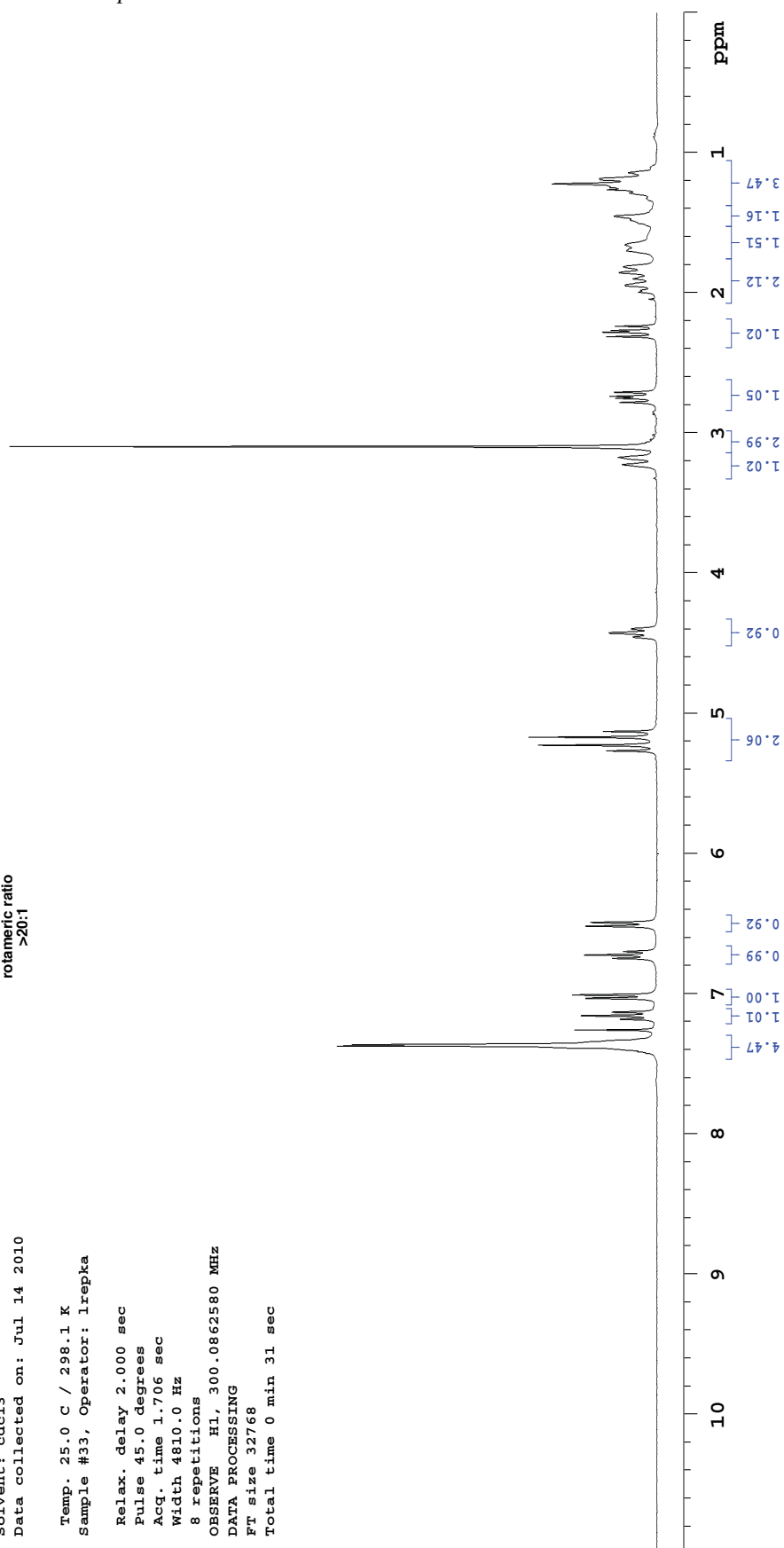
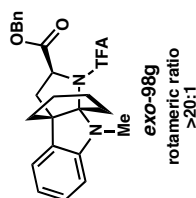


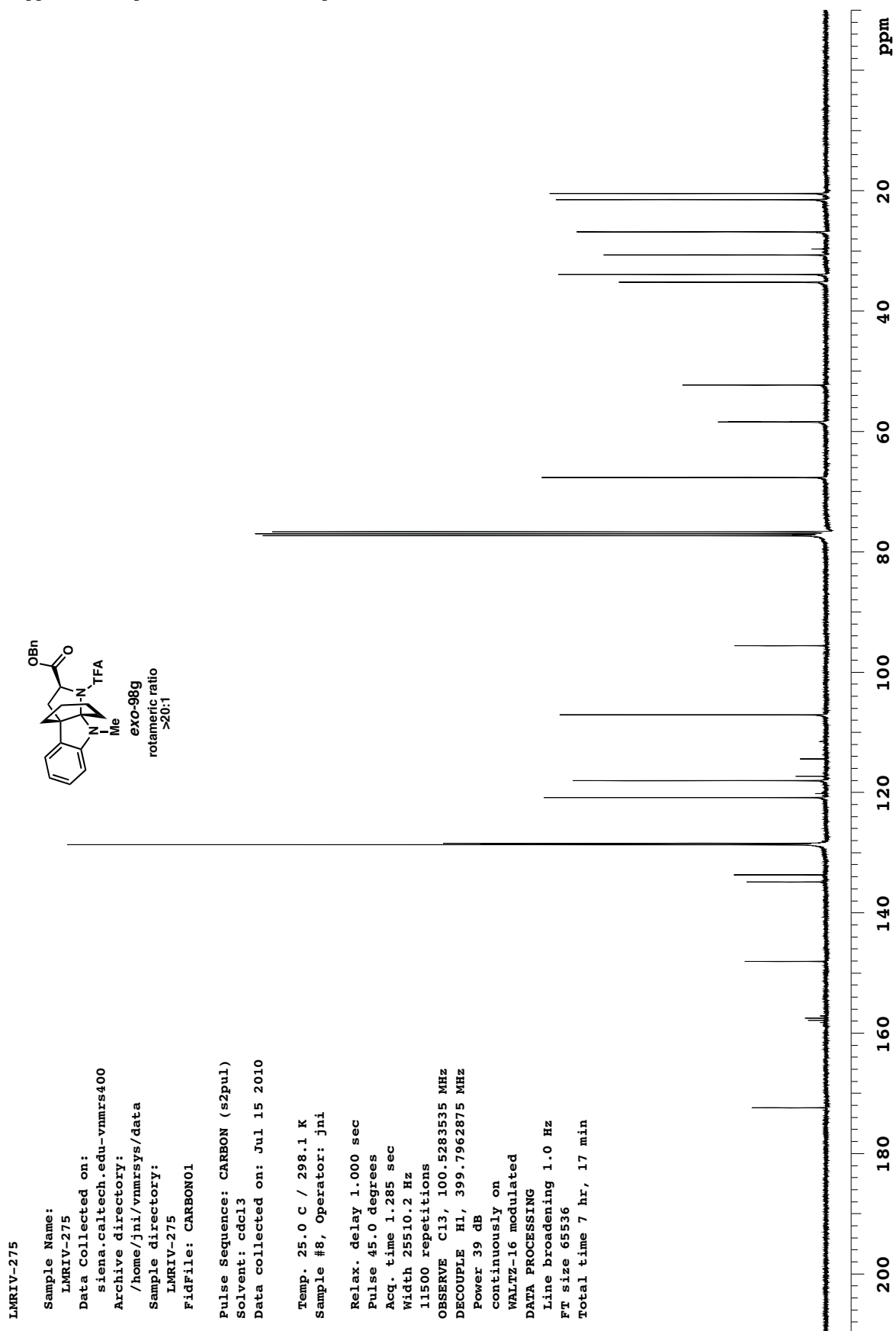


LMRIV-275-pentanewash

Sample Name:
LMRIV-275-pentanewash
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/lrepka/vnmrsys/data
Sample directory:
LMRIV-275-pentanewash
FidFile: PROTON01
Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 14 2010

Temp. 25.0 C / 298.1 K
Sample #33, Operator: lrepka
Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 1.706 sec
Width 4810.0 Hz
8 repetitions
OBSERVE H1, 300.0862580 MHz
DATA PROCESSING
Ft size 32768
Total time 0 min 31 sec





LMRIV-267-major diastereomer

Sample Name:

LMRIV-267-majordr

Data Collected on:

indy.caltech.edu-ino500

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-267-majordr

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Jul 19 2010

Temp. 25.0 C / 298.1 K

Operator: lrepka

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.500 sec

Width 8000.0 Hz

16 repetitions

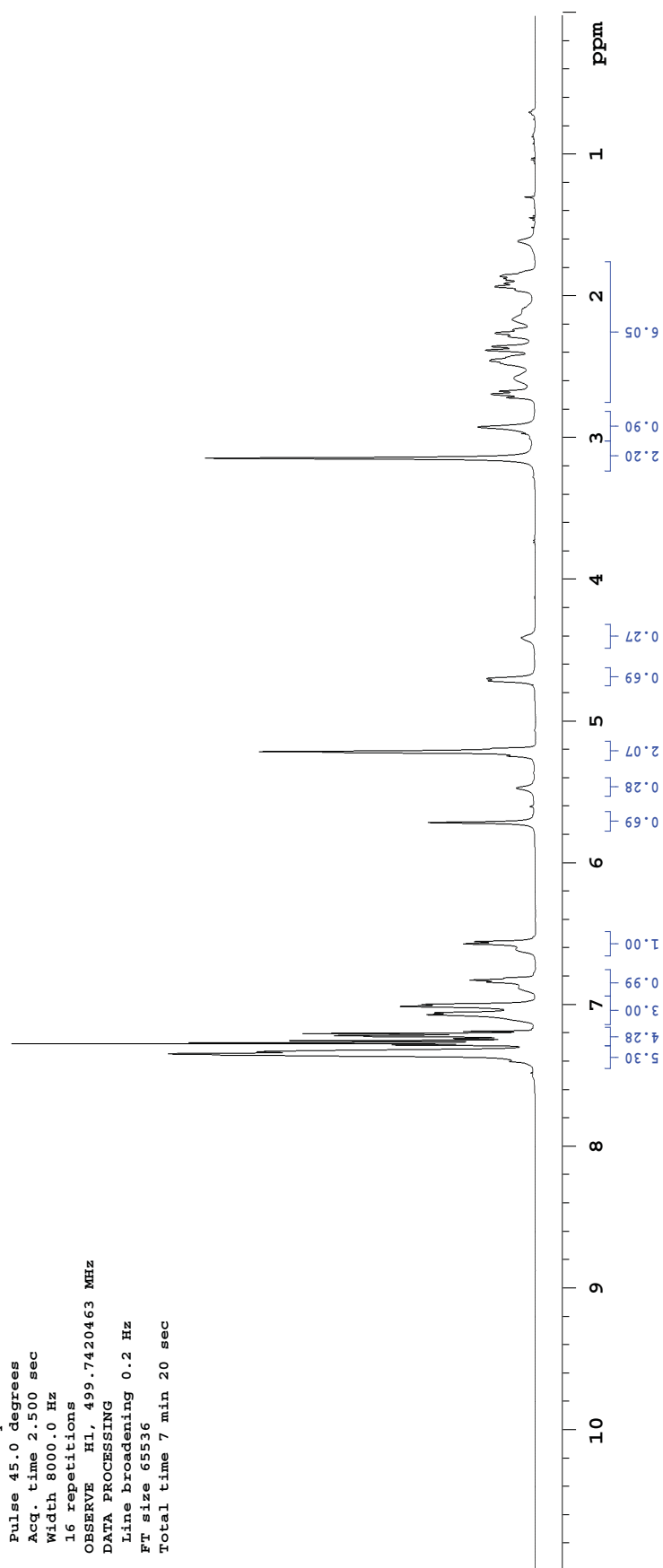
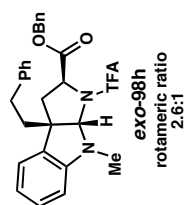
OBSERVE H1, 499.7420463 MHz

DATA PROCESSING

Line broadening 0.2 Hz

FT size 65536

Total time 7 min 20 sec



LMRIV-267-majorshigemi

Sample Name:

LMRIV-267-majorshigemi
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/lrepka/vnmrsys/data
Sample directory:
LMRIV-267-majorshigemi
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 20 2010

Temp. 25.0 C / 298.1 K
Operator: lrepka

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
12400 repetitions

OBSERVE C13, 125.6602469 MHz
DECOUPLE H1, 499.7445450 MHz

Power 39 dB

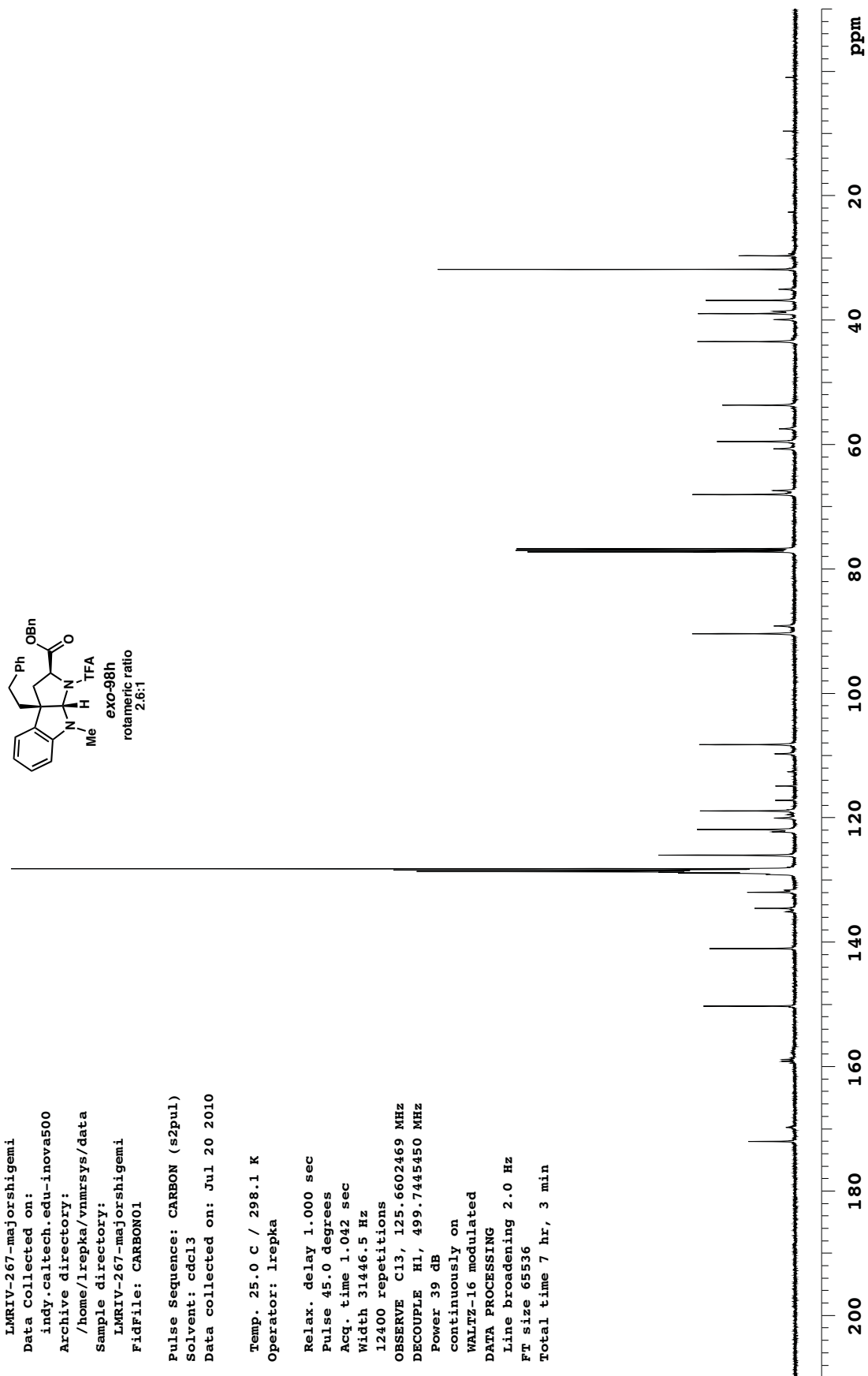
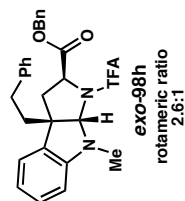
continuously on

WALTZ-16 modulated

DATA PROCESSING

Line broadening 2.0 Hz
FT size 65536

Total time 7 hr, 3 min



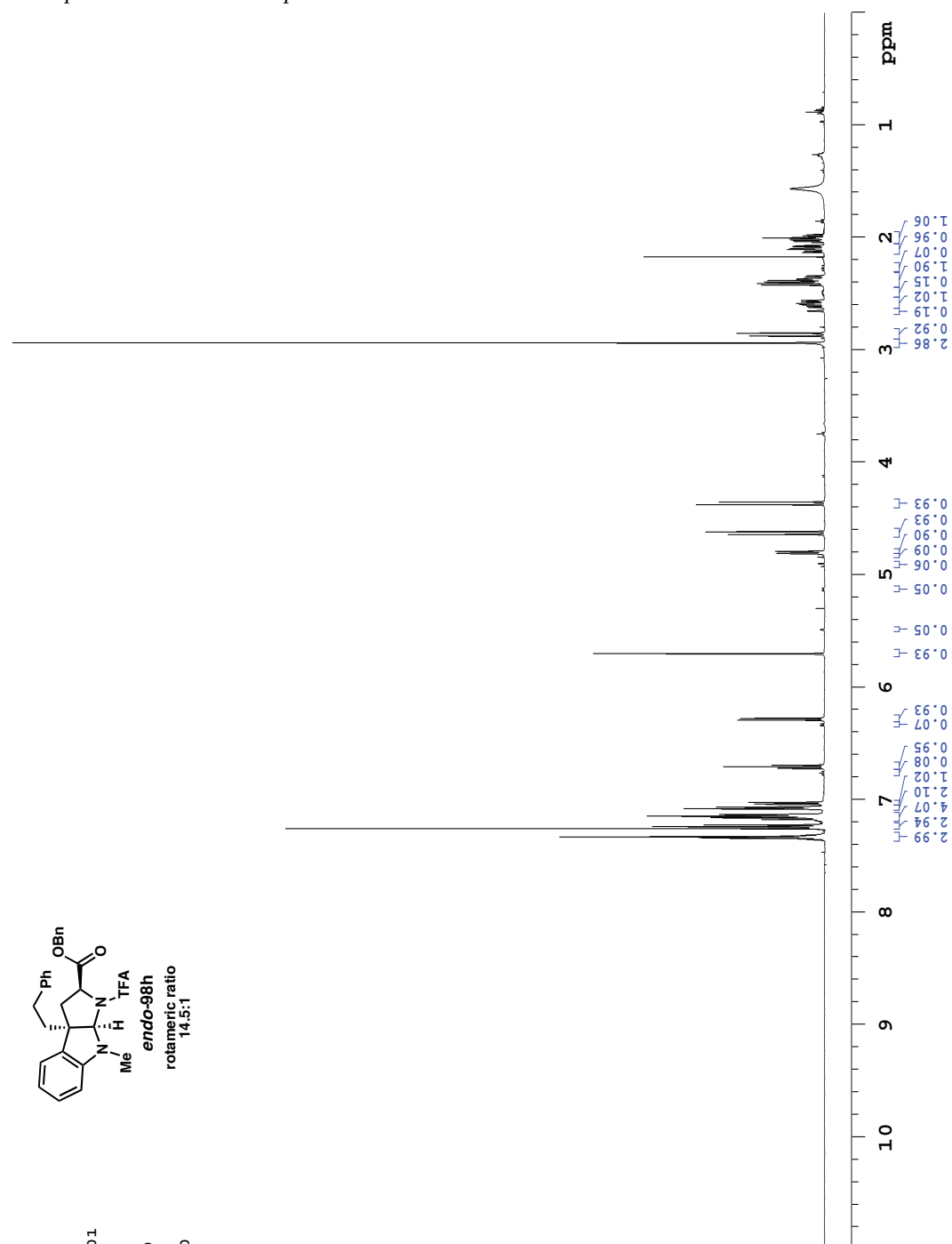
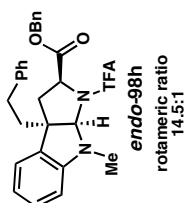
LMRIV-267-minor3

Sample Name:
 LMRIV-267-minor3
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/lrepka/vnmrsys/data
 Sample directory:
 LMRIV-267-minor3 20100717_01
 Fidfile: data_s2pul_001

Pulse Sequence: PROTON (s2pul)
 Solvent: CDCl₃
 Data collected on: Jul 17 2010

Temp. 25.0 C / 298.1 K
 Operator: lrepka

Relax. delay 25.000 sec
 Pulse 45.0 degrees
 Acq. time 2.049 sec
 Width 7996.0 Hz
 8 repetitions
 OBSERVE H1, 499.7420487 MHz
 DATA PROCESSING
 FT size 32768
 Total time 3 min 36 sec



LMRIV-267-minor3

Sample Name:

LMRIV-267-minor3

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRIV-267-minor3_20100717_01

FidFile: data_s2pul_002

Pulse Sequence: CARBON (s2pul)

Solvent: CDCl₃

Data collected on: Jul 17 2010

Temp. 25.0 C / 298.1 K

Operator: lrepka

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.043 sec

Width 31409.5 Hz

12000 repetitions

OBSERVE C13, 125.6602386 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

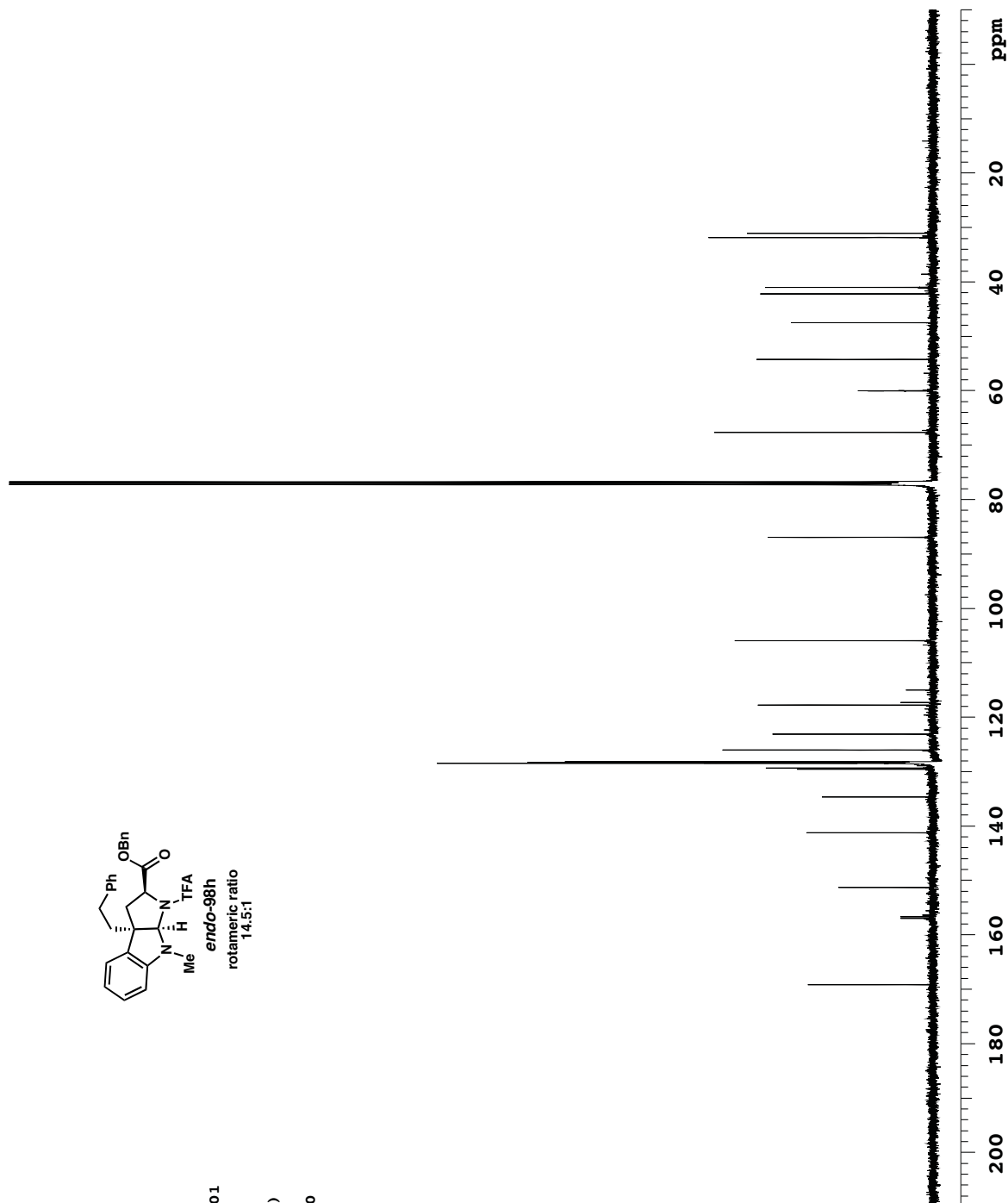
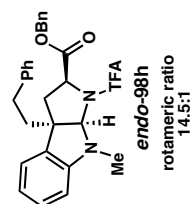
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 65536

Total time 6 hr, 50 min



JN-1-211-majordiast

Sample Name:

JN-1-211-majordiast

Data Collected on:

sienna.caltech.edu-vmrs400

Archive directory:

/home/jni/vmrsys/data

Sample directory:

JN-1-211-majordiast

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Jul 28 2010

Temp. 25.0 C / 298.1 K

Sample #6, Operator: jni

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.556 sec

Width 6410.3 Hz

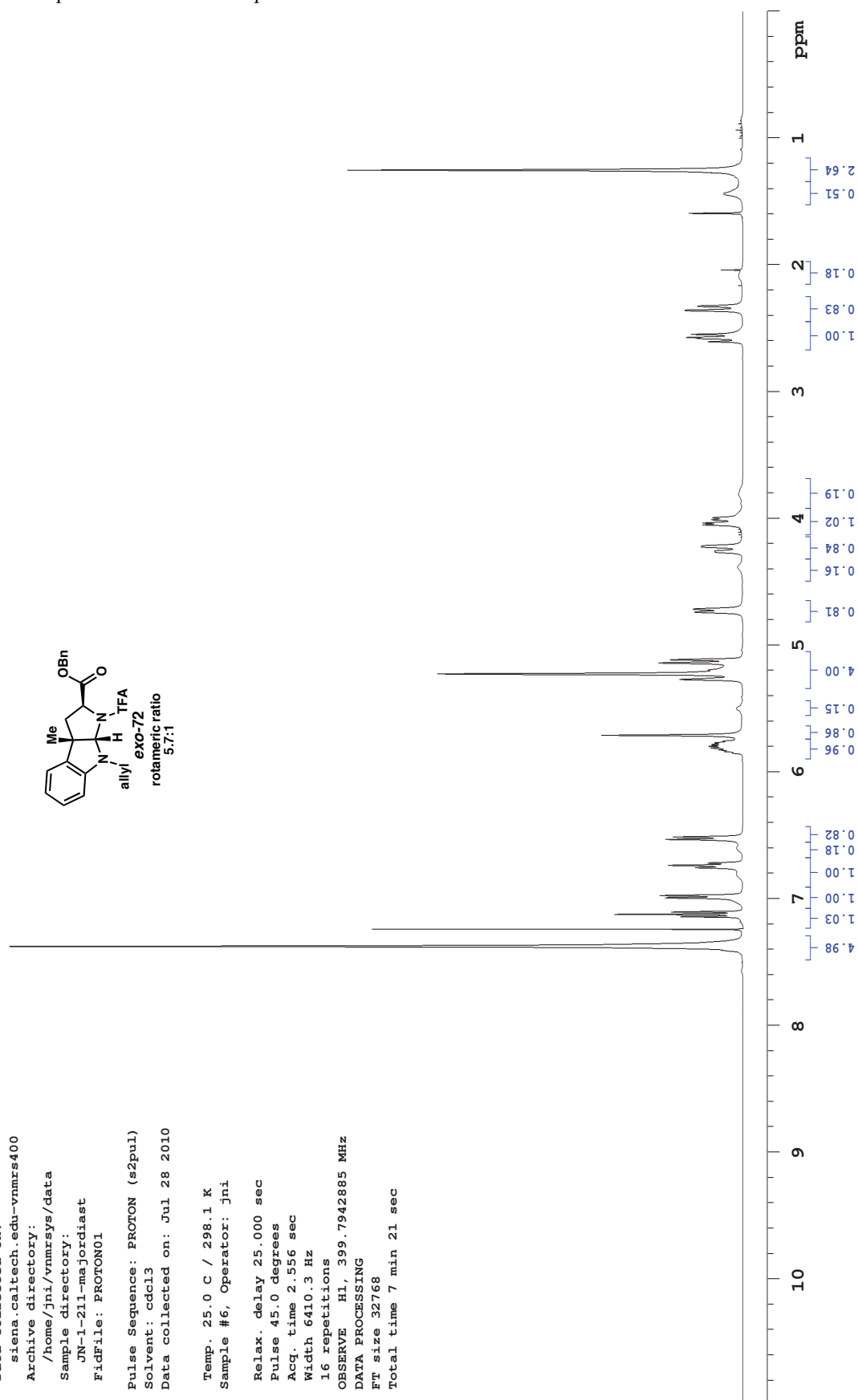
16 repetitions

OBSERVE H1, 399.7942885 MHz

DATA PROCESSING

FT size 32768

Total time 7 min 21 sec



JN-1-211-majordiast

Sample Name:

JN-1-211-majordiast
Data Collected on:
siena.caltech.edu-vmrs400
Archive directory:
/home/jni/vmrsys/data
Sample directory:
JN-1-211-majordiast
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 28 2010

Temp. 25.0 C / 298.1 K
Sample #6, Operator: jni

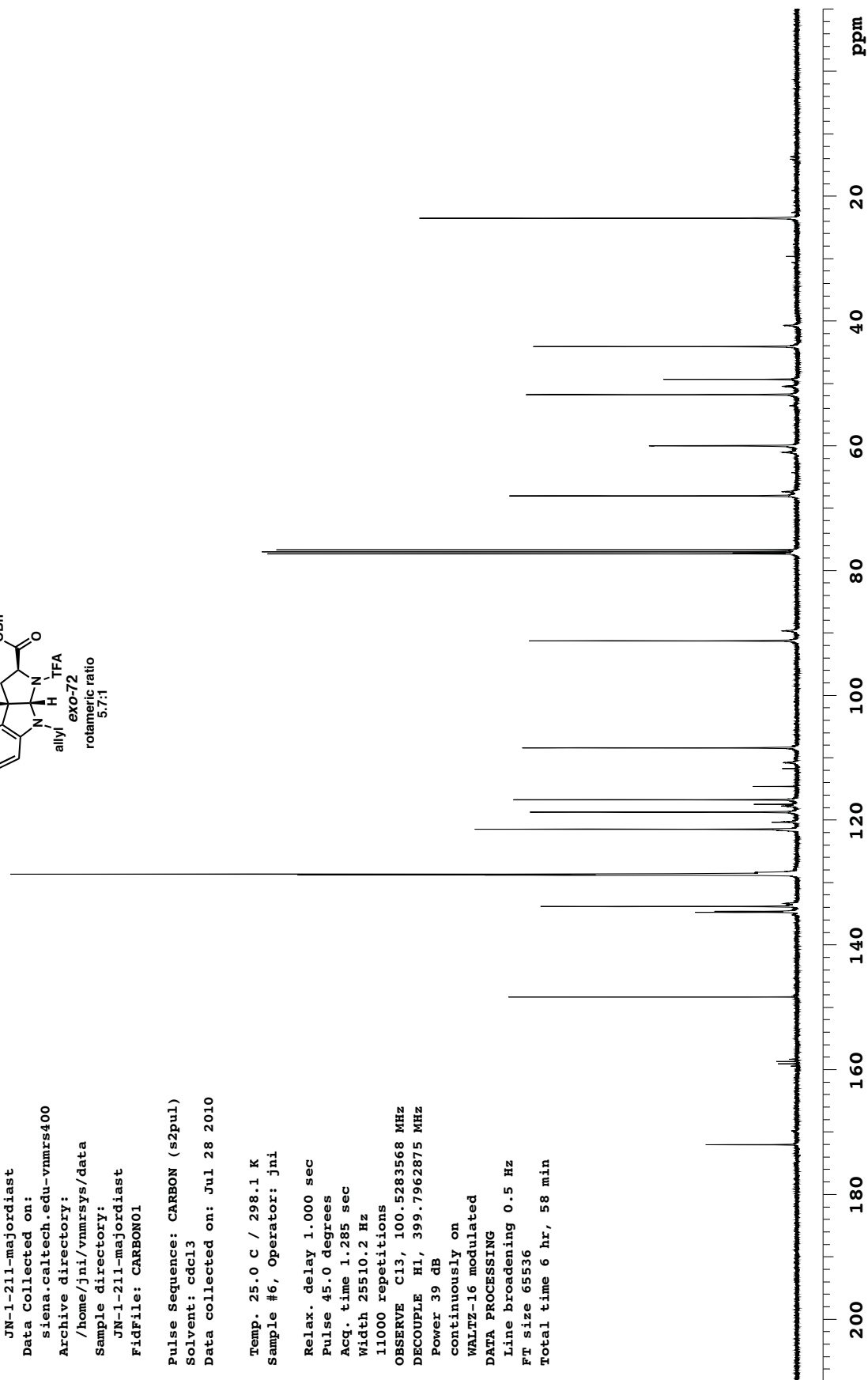
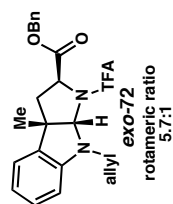
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.285 sec
Width 25510.2 Hz
11000 repetitions

OBSERVE C13, 100.5283568 MHz
DECOUPLE H1, 399.7962875 MHz

Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz
FT size 65536
Total time 6 hr, 58 min



JN-1-211-minordiast

Sample Name:

JN-1-211-minordiast

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/janeni/vnmrsys/data

Sample directory:

JN-1-211-minordiast

FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Jul 28 2010

Operator: janeni

Relax. delay 25.000 sec

Pulse 45.0 degrees

Acq. time 2.500 sec

Width 8000.0 Hz

16 repetitions

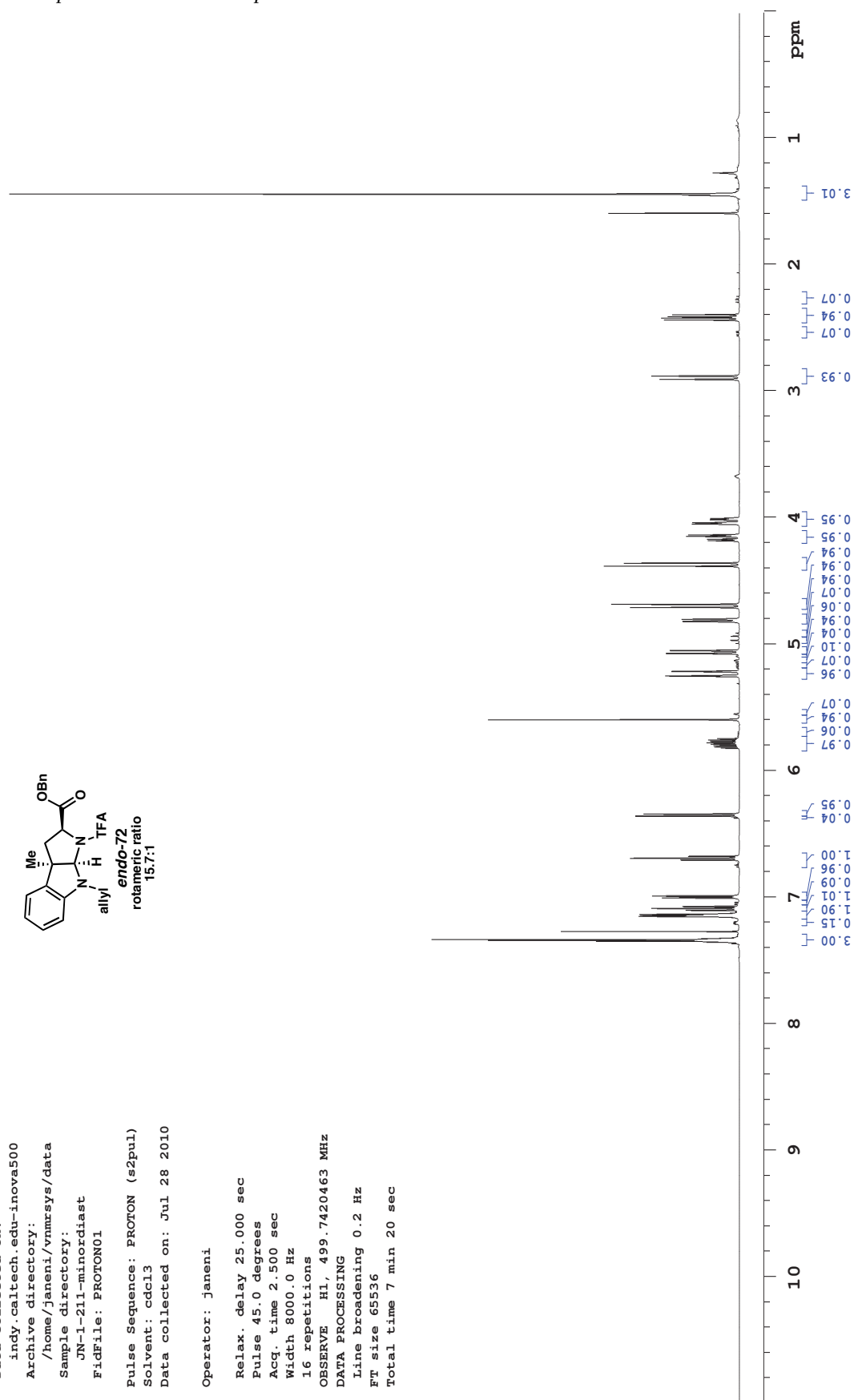
OBSERVE H1, 499.7420463 MHz

DATA PROCESSING

Line broadening 0.2 Hz

Ft size 65536

Total time 7 min 20 sec



JN-1-211-minordiast

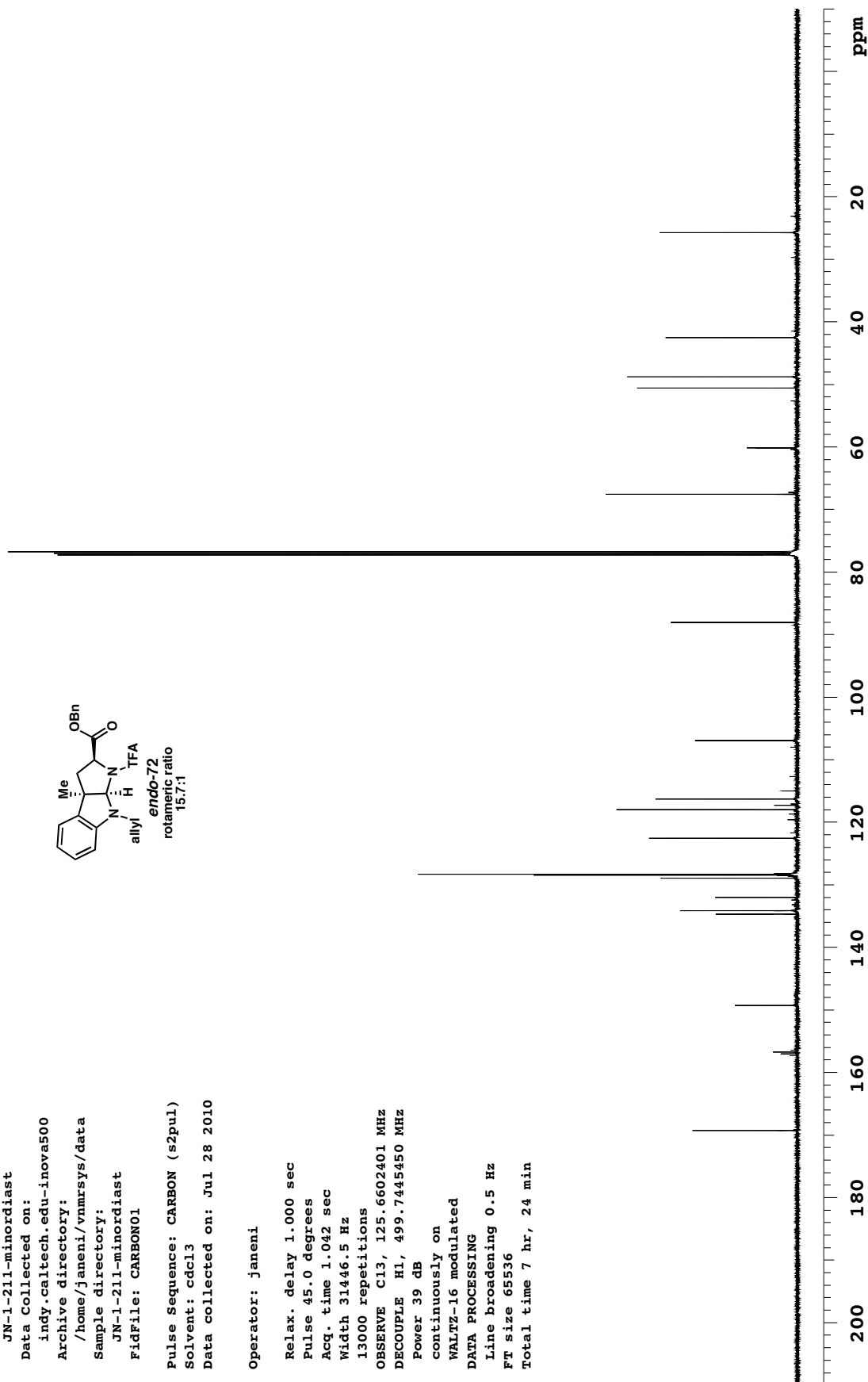
Sample Name:

JN-1-211-minordiast
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/janeni/vnmrsys/data
Sample directory:
JN-1-211-minordiast
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 28 2010

Operator: janeni

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
13000 repetitions
OBSERVE C13, 125.6602401 MHz
DECOUPLE H1, 499.7445450 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 7 hr, 24 min



LMRV-047-majordr

Sample Name:

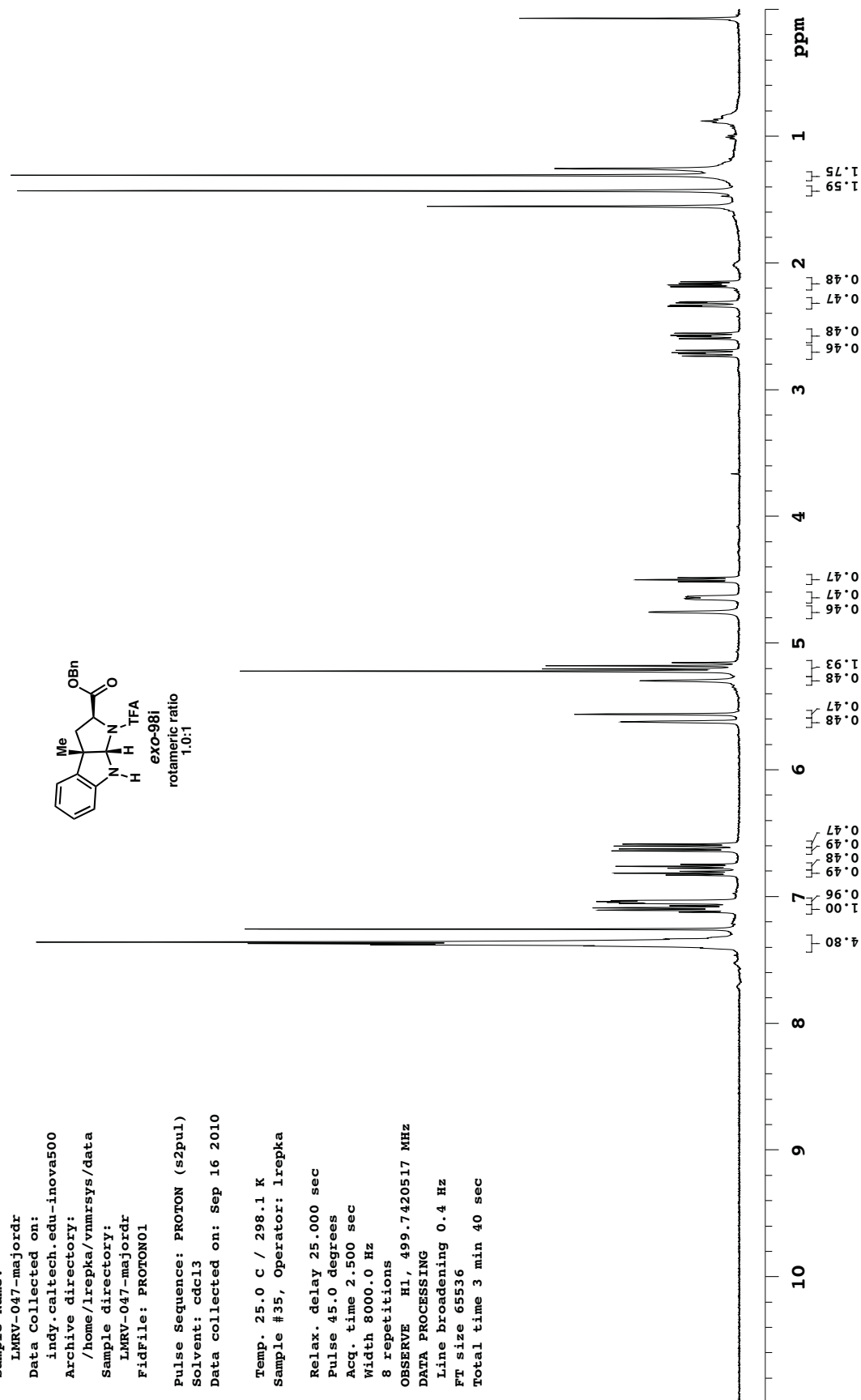
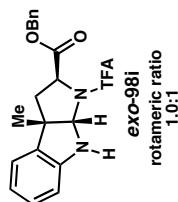
LMRV-047-majordr
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/lrepka/vnmrsys/data
 Sample directory:
 LMRV-047-majordr
 Fidfile: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Sep 16 2010

Temp. 25.0 C / 298.1 K
 Sample #35, Operator: lrepka

Relax. delay 25.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 8 repetitions

OBSERVE H1, 499.7420517 MHz
 DATA PROCESSING
 Line broadening 0.4 Hz
 FT size 65536
 Total time 3 min 40 sec



LMRV-047-majordr

Sample Name:

LMRV-047-majordr

Data Collected on:

indy.caltech.edu-inova500

Archive directory:

/home/lrepka/vnmrsys/data

Sample directory:

LMRV-047-majordr

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Sep 16 2010

Temp. 25.0 C / 298.1 K

Sample #35, Operator: lrepka

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.042 sec

Width 31446.5 Hz

11500 repetitions

OBSERVE C13, 125.6602394 MHz

DECOUPLE H1, 499.7445450 MHz

Power 39 dB

continuously on

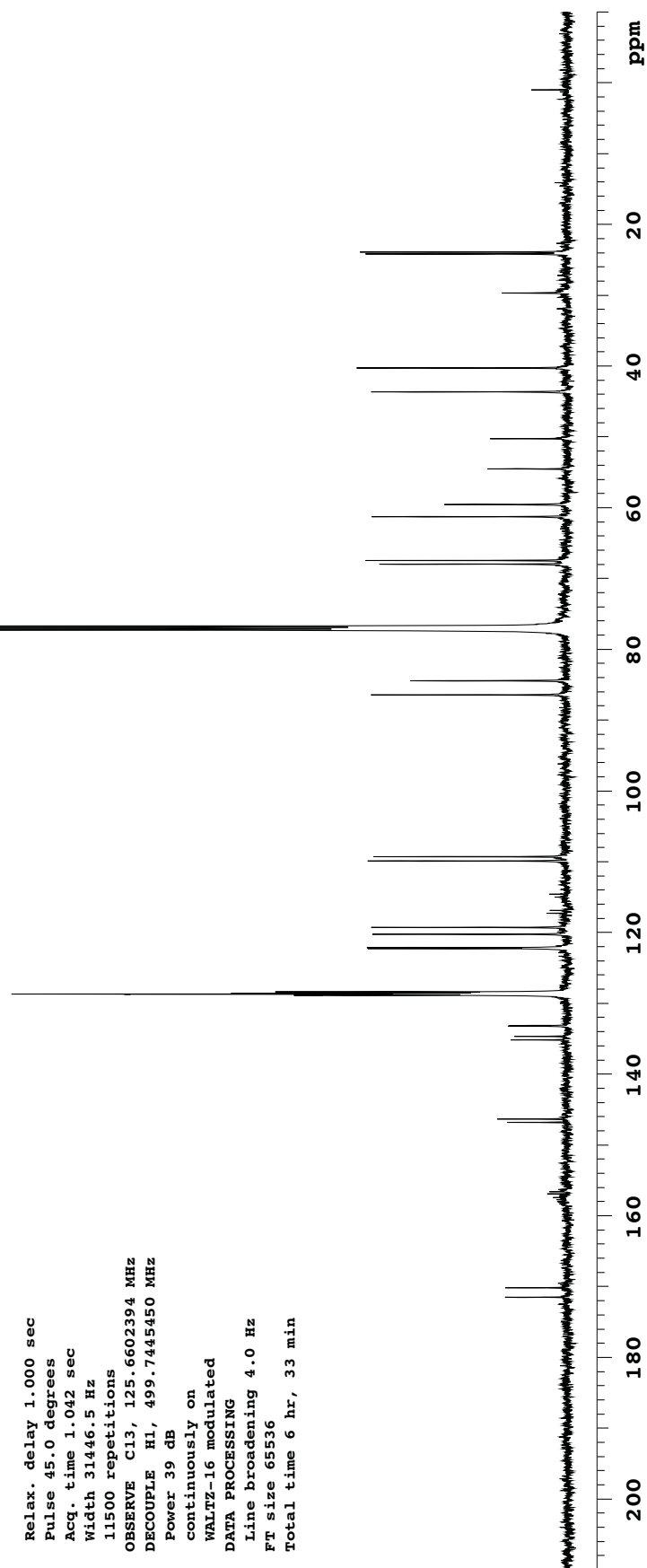
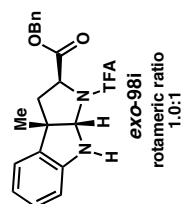
WALTZ-16 modulated

DATA PROCESSING

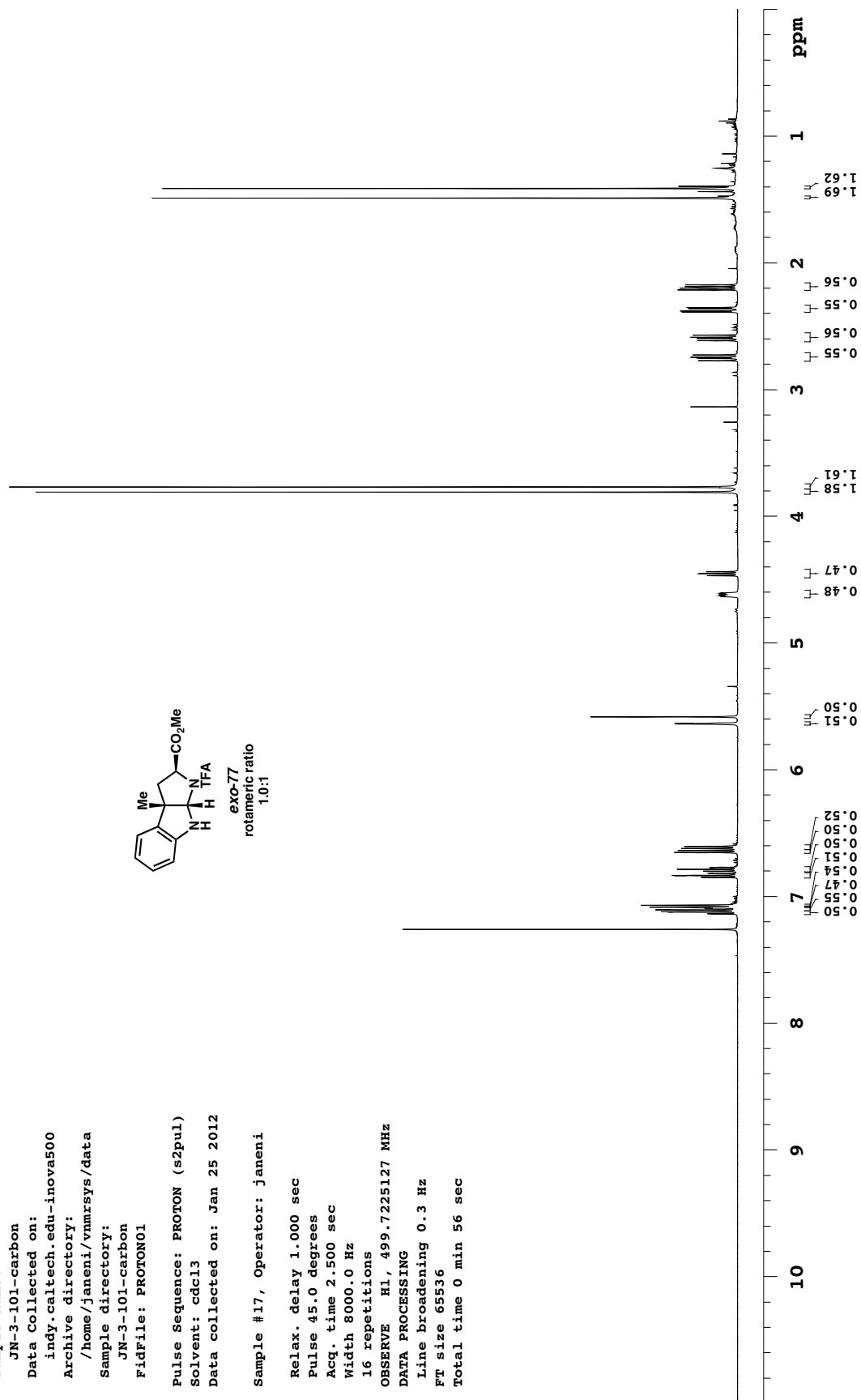
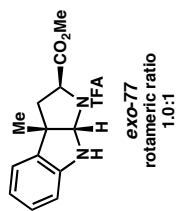
Line broadening 4.0 Hz

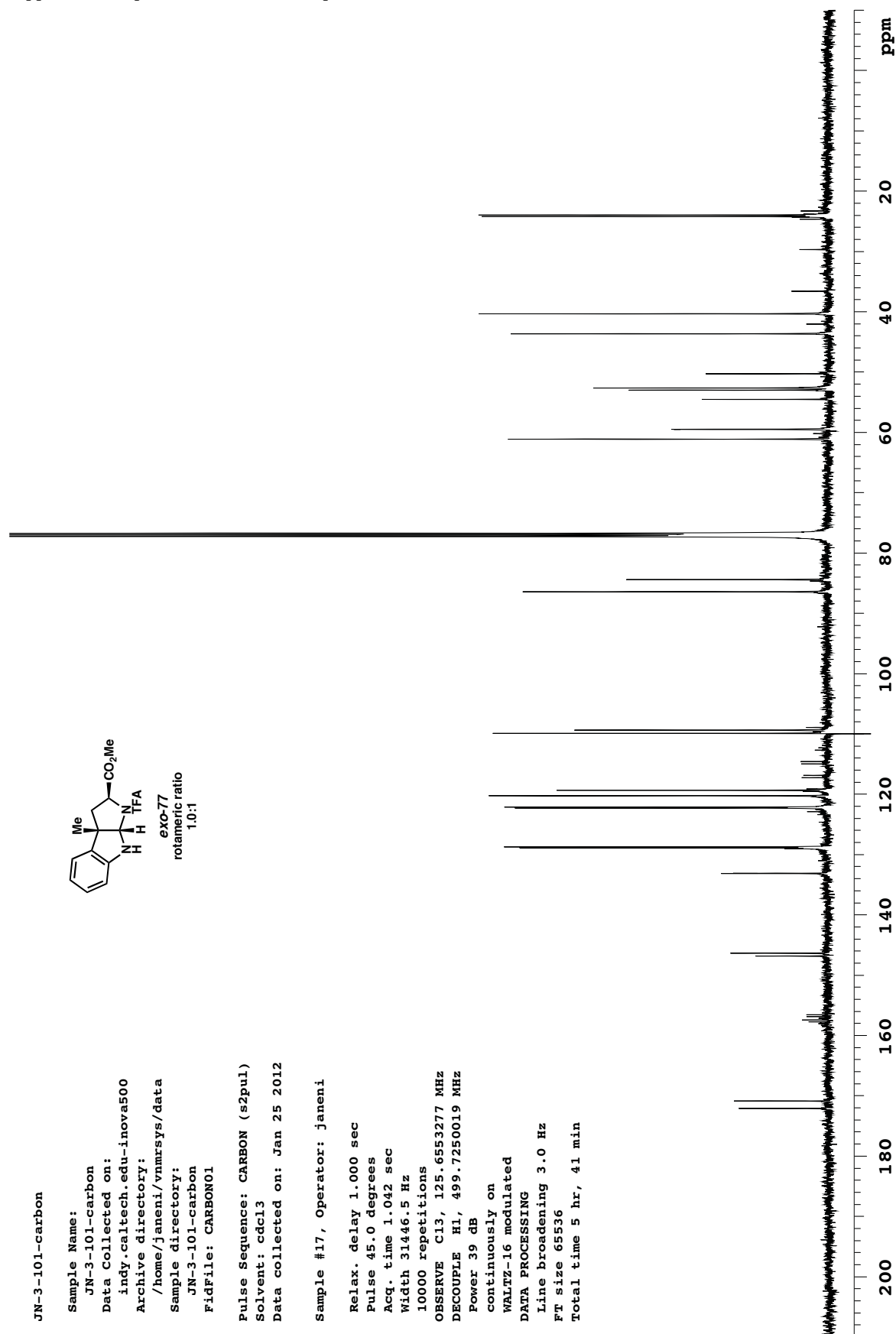
FT size 65536

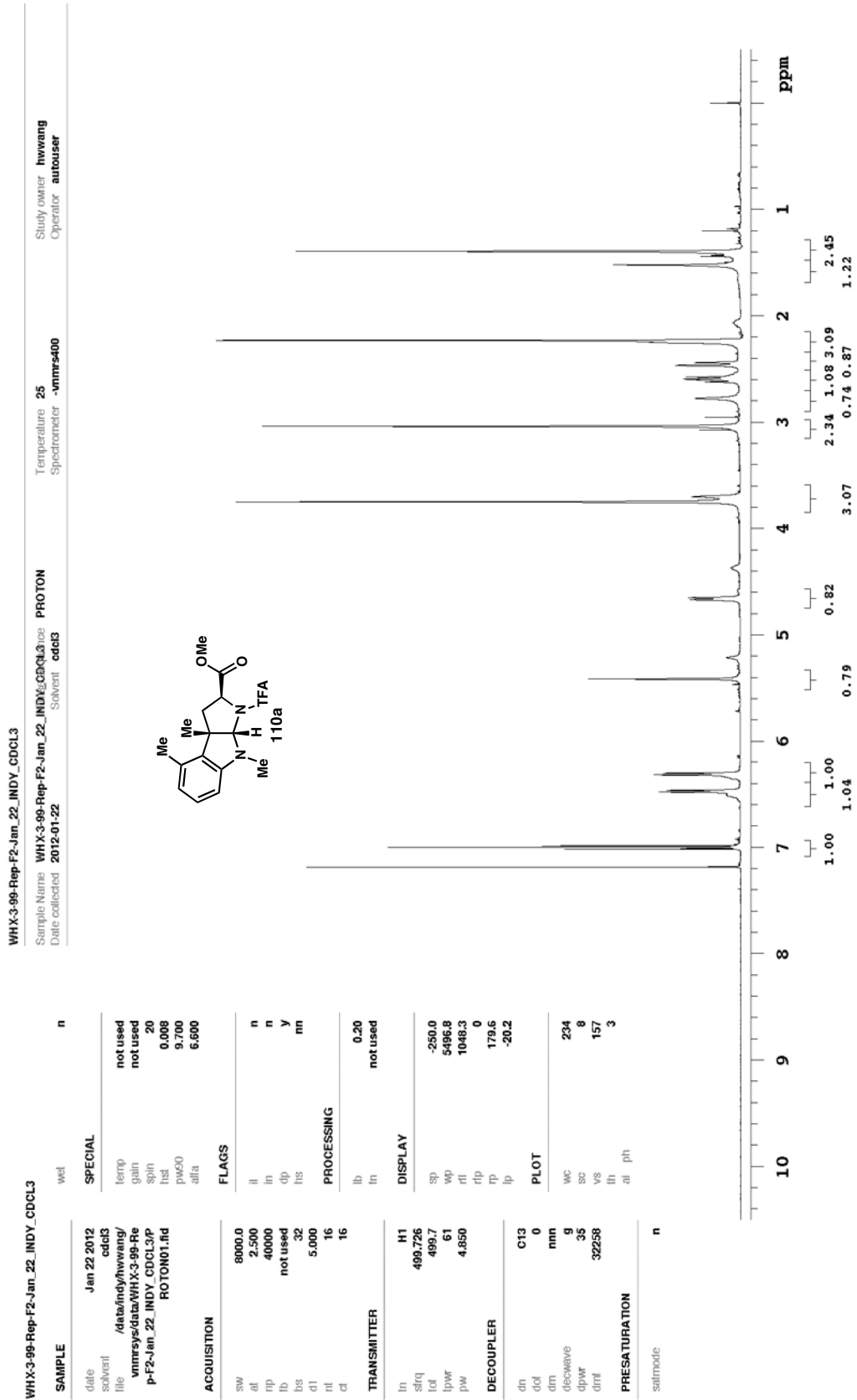
Total time 6 hr, 33 min

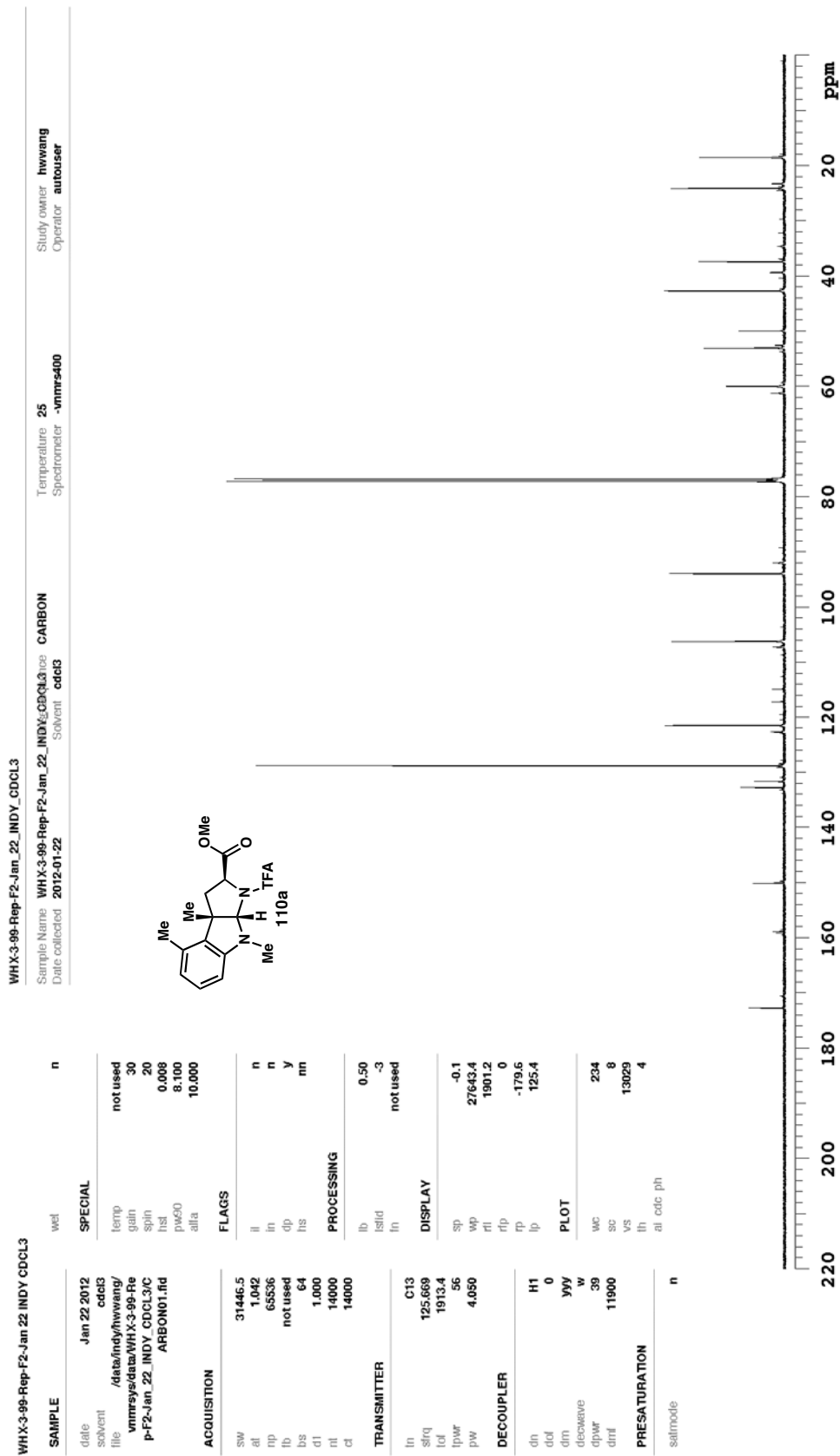


Total time 0 min 56 sec









Chemical structure of compound 110b is shown. It is a bicyclic amide derivative. The structure features a central bicyclic core with a 4-methylphenyl group attached to one of the ring carbons. The other ring carbon is substituted with a methoxycarbonyl group (COOMe). The nitrogen atom of the amide is substituted with a trifluoroacetyl group (C(=O)CF₃). The structure is labeled 110b.

WHX-3-102-Rep-F2_INDI_CDCL3

Sample Name: WHX-3-102-Rep-F2_INDI_CDCL3 sequences: PROTON
 Date collected: 2012-01-10 Solvent: cdcl3 Temperature Spectrometer: 25 -vnmr5400 Study owner: huwang Operator: autouser

1H NMR spectrum (400 MHz, CDCl3) of WHX-3-102-Rep-F2. The spectrum shows peaks in the aromatic region (6.5-7.5 ppm) and aliphatic region (1.0-2.5 ppm). Integration values are provided below the peaks.

Chemical Structure:

1H NMR Data:

Chemical Shift (ppm)	Integration
7.45 (d, 1H)	1.00
7.35 (d, 1H)	0.68
7.25 (d, 1H)	0.66
7.15 (d, 1H)	0.39
7.05 (d, 1H)	0.28
6.95 (d, 1H)	0.65
6.85 (d, 1H)	0.33
6.75 (d, 1H)	0.26
6.65 (d, 1H)	0.64
6.55 (d, 1H)	0.88
6.45 (d, 1H)	2.03
6.35 (d, 1H)	2.28
6.25 (d, 1H)	3.11
6.15 (d, 1H)	1.08
6.05 (d, 1H)	2.28
5.95 (d, 1H)	2.28
5.85 (d, 1H)	2.28
5.75 (d, 1H)	2.28
5.65 (d, 1H)	2.28
5.55 (d, 1H)	2.28
5.45 (d, 1H)	2.28
5.35 (d, 1H)	2.28
5.25 (d, 1H)	2.28
5.15 (d, 1H)	2.28
5.05 (d, 1H)	2.28
4.95 (d, 1H)	2.28
4.85 (d, 1H)	2.28
4.75 (d, 1H)	2.28
4.65 (d, 1H)	2.28
4.55 (d, 1H)	2.28
4.45 (d, 1H)	2.28
4.35 (d, 1H)	2.28
4.25 (d, 1H)	2.28
4.15 (d, 1H)	2.28
4.05 (d, 1H)	2.28
3.95 (d, 1H)	2.28
3.85 (d, 1H)	2.28
3.75 (d, 1H)	2.28
3.65 (d, 1H)	2.28
3.55 (d, 1H)	2.28
3.45 (d, 1H)	2.28
3.35 (d, 1H)	2.28
3.25 (d, 1H)	2.28
3.15 (d, 1H)	2.28
3.05 (d, 1H)	2.28
2.95 (d, 1H)	2.28
2.85 (d, 1H)	2.28
2.75 (d, 1H)	2.28
2.65 (d, 1H)	2.28
2.55 (d, 1H)	2.28
2.45 (d, 1H)	2.28
2.35 (d, 1H)	2.28
2.25 (d, 1H)	2.28
2.15 (d, 1H)	2.28
2.05 (d, 1H)	2.28
1.95 (d, 1H)	2.28
1.85 (d, 1H)	2.28
1.75 (d, 1H)	2.28
1.65 (d, 1H)	2.28
1.55 (d, 1H)	2.28
1.45 (d, 1H)	2.28
1.35 (d, 1H)	2.28
1.25 (d, 1H)	2.28
1.15 (d, 1H)	2.28
1.05 (d, 1H)	2.28
1.00 (d, 1H)	2.28

Acquisition Parameters:

Parameter	Value
SW	8000.0
at	2.500
np	40000
tb	not used
bs	32
d1	5.000
nt	32
cl	32

Processing Parameters:

Parameter	Value
lb	0.20
ln	not used

Display Parameters:

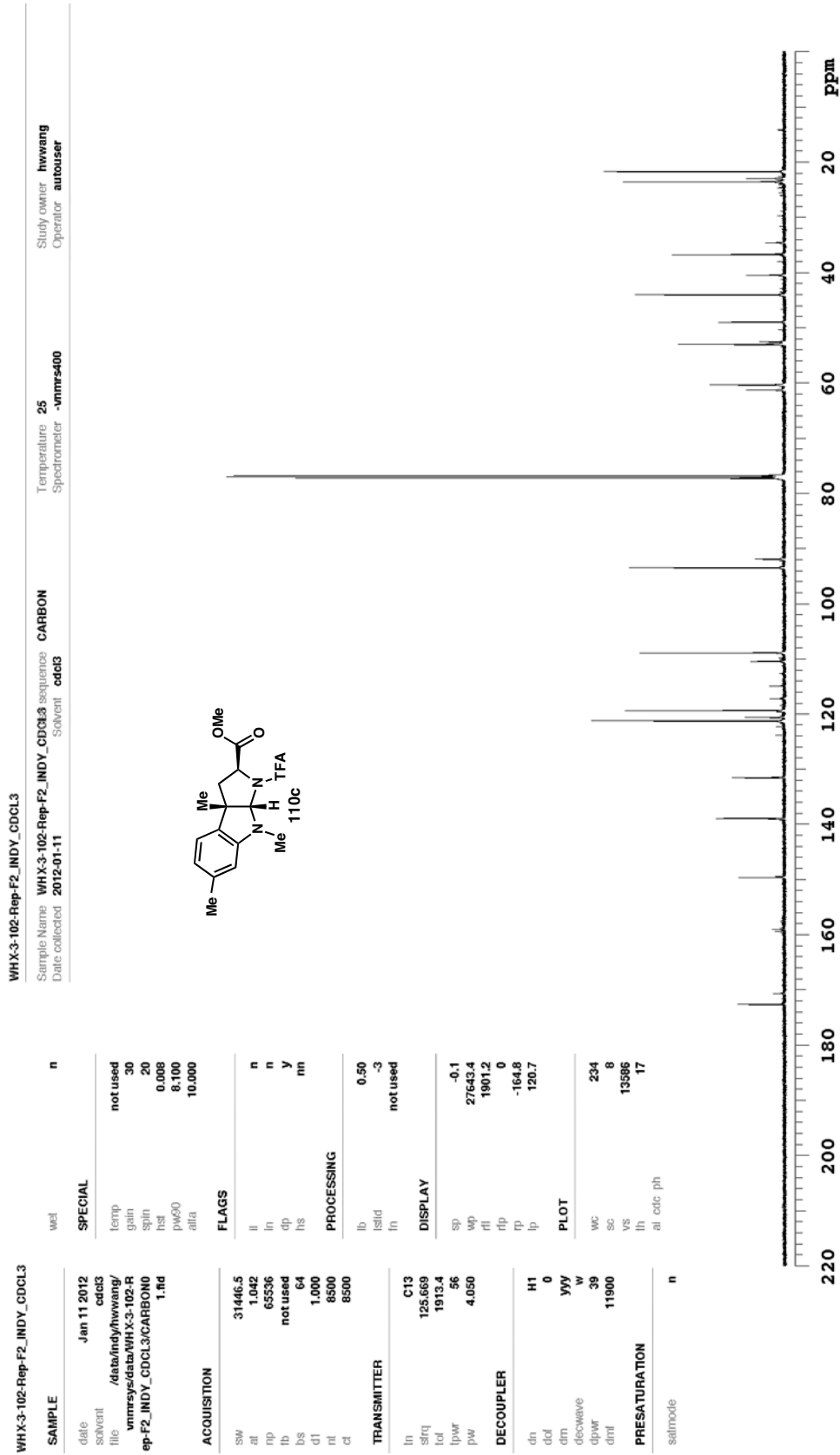
Parameter	Value
sp	-250.0
wp	5496.8
rl	1001.7
rlp	0
rp	164.3
lp	11.7

Plot Parameters:

Parameter	Value
wc	234
sc	8
vs	88
th	54
ph	

Presaturation Parameters:

Parameter	Value
salmod	n



JN-3-063b-colmaj

Sample Name: **JN-3-063b-colmaj**
Date collected: **2011-11-01**

Pulse sequence: **PROTON**
Solvent: **cdcl3**

Temperature: **25**
Spectrometer: **-nmrs400**

Study owner: **janeli**
Operator: **autouser**

Wet: **n**

SPECIAL

temp	not used
gain	not used
spin	20
hsl	0.008
pw60	9.700
alfa	6.600

FLAGS

ll	n
ln	n
dp	y
hs	nn

PROCESSING

lb	0.20
fn	not used

DISPLAY

sp	-0.2
wp	5496.8
rl	1001.7
rtp	0
rp	-177.7
lp	-24.8

PLOT

wc	234
sc	8
vs	29
th	54
al	ph

ACQUISITION

sw	8000.0
al	2.500
rp	40000
fb	not used
bs	32
d1	5.000
rl	16
cl	16

TRANSMITTER

ln	H1
slrq	499.726
tdl	499.7
tpwr	61
pw	4.850

DECOUPLER

dn	C13
dcl	0
dm	nnn
decwave	g
dpwr	35
dmtl	32258

PRESATURATION

salmode	n
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Chemical Structure:

1H NMR Spectrum:

Peak Data:

ppm	7.2	6.8	6.5	5.5	5.2	4.8	4.5	4.2	3.8	3.5
Integration	3.00	0.84	0.13	0.43	0.45	0.87	0.69	0.99	2.69	2.53

