α-Diazo-β-ketonitriles: Uniquely Reactive Substrates for Arene and Alkene Cyclopropanation

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Supporting Information 2 (NMR spectra):
Sample Name: RRN-8-59-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-59-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Apr 4 2012

Sample #44, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE   H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec

Plotname: --Not assigned--
Sample Name:
RRN-8-59-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-8-59-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: ccd3
Data collected on: Apr 4 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE  C13, 125.6553377 MHz
DECOUPLE  H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

Plotname: --Not assigned--
Sample Name: RRN-8-91-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/shan/vnmrsys/data
Sample directory: RRN-8-91-1H
FidFile: RRN-8-91-1H-II

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 19 2012

Sample #44, Operator: shan
Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 12 sec
Sample Name: RRN-8-91-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-91-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Mar 19 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31466.5 Hz
1350 repetitions
OBSERVE C13, 125.6553473 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

Plotname: --Not assigned--
Sample Name: RRN-7-183-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-183-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdc13
Data collected on: Jun 5 2012

Sample #45, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7127412 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 12 sec

Plotname: --Not assigned--
Sample Name:
RRN-7-183-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-7-183-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jun 5 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
1000 repetitions
OBSERVE C13, 125.6528806 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 50 min

Plotname: --Not assigned--
Sample Name: RRN-6-169-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-6-169-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdc13
Data collected on: Jun 13 2012

Sample #37, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-6-169-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-6-169-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdc13
Data collected on: Jun 13 2012

Sample #38, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.900 sec
Width 31446.5 Hz
1200 repetitions

OBSERVE C13, 125.6528777 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 58 min

Plotname: --Not assigned--
Sample Name: RRN-SL-6-127_check
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-SL-6-127_check
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jun 15 2012

Sample #39, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-SL-6-127-13C
Data Collected on: inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-SL-6-127-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jun 15 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE C13, 125.6528806 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

Plotname: --Not assigned--
Sample Name: RRN-7-285-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-285-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdc13
Data collected on: Jan 21 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE  H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-7-285-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-285-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jan 21 2012

Sample #43, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
640 repetitions
OBSERVE C13, 125.6553377 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 21 min

Plotname: --Not assigned--
Sample Name: RRN-8-177-1_flashed
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-177-1_flashed
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Feb 22 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec
Sample Name: RRN-8-177-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-177-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: ccd13
Data collected on: Aug 13 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
1100 repetitions
OBSERVE C13, 125.6528844 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 55 min
Sample Name:
RRN-9-135-1H
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-9-135-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Aug 15 2012

Sample #39, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE   H1, 499.7127430 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name:
  RRN-9-135-13C
Data Collected on:
  indy.caltech.edu-inova500
Archive directory:
  /home/nanir/vnmrsys/data
Sample directory:
  RRN-9-135-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Aug 15 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions

OBSERVE  C13, 125.6528806 MHz
DECOUPLE  H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min
Sample Name: RRN-8-173-1_flashed
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-173-1_flashed
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Feb 22 2012

Sample #39, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec
Sample Name: RRN-8-173-13C_Cl
Data Collected on:indy.caltech.edu-inova500
Archive directory:/home/nanir/vnmrsys/data
Sample directory:RRN-8-173-13C_Cl
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Aug 14 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE C13, 125.6528748 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min
Sample Name:
RRN-8-175-1_flashed

Data Collected on:
indy.caltech.edu-inova500

Archive directory:
/home/nanir/vnmrsys/data

Sample directory:
RRN-8-175-1_flashed

PdFile: PROTON01

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Feb 22 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions

OBSERVE  H1, 499.7225125 MHz

DATA PROCESSING

Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec
Sample Name: RRN-8-175-13C_CF3
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-175-13C_CF3
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Aug 14 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE C13, 125.6528729 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min
Sample Name: RRN-7-283-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-283-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jan 24 2012

Sample #39, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions

OBSERVE   H1,  499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-7-283-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-283-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jan 24 2012

Sample #39, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1650 repetitions
OBSERVE C13, 125.6553339 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

Plotname: --Not assigned--
Sample Name:
RRN-9-211-1H
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-9-211-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 9 2012

Sample #38, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7127432 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name: RRN-9-211-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-211-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 10 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.700 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE C13, 125.6528825 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 54 min
Sample Name: RRN-7-215-1_flashed
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-215-1_flashed
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Sep 18 2011

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7225128 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 52 sec

Plotname: --Not assigned--
Sample Name: RRN-7-215-13C_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-215-13C_II
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jan 22 2012

Sample #38, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
3500 repetitions
OBSERVE C13, 125.6553339 MHz
DECOUPLE H1, 499.7250019 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

Plotname: --Not assigned--
Sample Name: RRN-7-287-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-287-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jan 21 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec

Plotname: --Not assigned--
Sample Name:
RRN-7-287-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-7-287-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jan 21 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1500 repetitions

OBSERVE C13, 125.6553377 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 51 min

Plotname: --Not assigned--
Sample Name: RRN-9-209-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-209-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 9 2012

Sample #37, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7127432 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name: RRN-9-209-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-209-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 9 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE C13, 125.6528787 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

![Chemical Structure Image](Image)
Sample Name: RRN-5-191-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-5-191-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 2 2012

Sample #44, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7127412 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-5-191-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-5-191-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 2 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
1100 repetitions

OBSERVE C13, 125.6528844 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on

WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 55 min

Plotname: --Not assigned--
Sample Name: RRN-7-289-1_flashed
Data Collected on: hg3.caltech.edu-mercury300
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-289-1_flashed
PdFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 22 2011

Sample #43, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.000 sec
Width 4798.5 Hz
32 repetitions
OBSERVE H1, 300.0862591 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 32768
Total time 2 min 11 sec

Plotname: --Not assigned--
Sample Name: RRN-7-289-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-289-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jan 21 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1500 repetitions
OBSERVE C13, 125.6553339 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 51 min

Plotname: --Not assigned--
Sample Name: RRN-9-75-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-75-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jun 11 2012

Sample #43, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7127412 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec

Plotname: --Not assigned--
Sample Name:
RRN-9-75-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-9-75-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jun 11 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE C13, 125.6528854 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

Plotname: --Not assigned--
Sample Name: RRN-7-217-1_flashed
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-217-1_flashed
PdFile: PROTON01
Data collected on: Sep 18 2011

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3

Sample #44, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE  H1, 499.7225128 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec
Sample Name: 
RRN-7-217-13C
Data Collected on: 
indy.caltech.edu-inova500
Archive directory: 
/home/nanir/vnmrsys/data
Sample directory: 
RRN-7-217-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 11 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions

OBSERVE  C13, 125.6528844 MHz
DECOUPLE  H1, 499.7152303 MHz
Power 39 dB
continuously on

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min
Sample Name: RRN-5-257-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-5-257-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Feb 2 2012

Sample #43, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec

Plotname: --Not assigned--
Sample Name: RRN-5-267-13C_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-5-267-13C_II
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdc13
Data collected on: Feb 3 2012

Sample #39, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
5000 repetitions

OBSERVE  C13, 125.6553367 MHz
DECOUPLE  H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 2 hr, 50 min

Plotname: --Not assigned--
Sample Name: RRN-9-157-2_HVAC_check
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-157-2_HVAC_check
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Aug 29 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7127430 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 52 sec
Sample Name: RRN-9-157-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-157-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdc13
Data collected on: Aug 29 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
1100 repetitions
OBSERVE C13, 125.6528854 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 55 min
Sample Name: RRN-7-23-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-23-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Feb 2 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions

OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 52 sec
Sample Name: RRN-7-23-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-23-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Feb 2 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1700 repetitions
OBSERVE C13, 125.6553377 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 58 min

Plotname: --Not assigned--
Sample Name: RRN-6-219-1_flashed
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-6-219-1_flashed
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdc13
Data collected on: May 25 2011

Temp. 25.0 C / 298.1 K
Sample #45, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7290203 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 44 sec

Plotname: --Not assigned--
Sample Name: RRN-6-219-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-6-219-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jan 26 2012

Sample #38, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1600 repetitions
OBSERVE C13, 125.6553425 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 54 min

Plotname: --Not assigned--
Sample Name: RRN-6-279-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vmrsys/data
Sample directory: RRN-6-279-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Feb 1 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec

Plotname: --Not assigned--
Sample Name: RRN-6-279-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-6-279-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Feb 1 2012

Sample #32, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1500 repetitions
OBSERVE C13, 125.6553454 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 51 min

Plotname: --Not assigned--
Sample Name: RRN-6-251-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-6-251-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Feb 1 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec

Plotname: --Not assigned--
Sample Name: RRN-6-251-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-6-251-13C
PfdFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Feb 2 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
5000 repetitions
OBSERVE C13, 125.6553329 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 2 hr, 50 min

Plotname: --Not assigned--
Sample Name:
RRN-6-205-1H
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-6-205-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jan 25 2012

Sample #43, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec

Plotname: --Not assigned--
Sample Name: RRN-6-205-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-6-205-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jan 25 2012

Sample #39, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1600 repetitions
OBSERVE C13, 125.6553377 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 54 min

Plotname: --Not assigned--
RRN-7-255-1_flashed

Sample Name: RRN-7-255-1_flashed
Data Collected on: hg3.caltech.edu-mercury300
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-255-1_flashed
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 12 2011

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.000 sec
Width 4798.5 Hz
16 repetitions
OBSERVE H1, 300.0862585 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 32768
Total time 1 min 6 sec

Plotname: --Not assigned--
Sample Name: RRN-7-255-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-255-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Feb 6 2012

Sample #45, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
5000 repetitions

OBSERVE C13, 125.6553300 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 hr, 14 min

Plotname: --Not assigned--
Sample Name: RRN-7-55-1_flashed
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-55-1_flashed
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 24 2011

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-7-55-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-55-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdc13
Data collected on: Feb 4 2012

Sample #39, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
6000 repetitions
OBSERVE C13, 125.6553386 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 3 hr, 25 min

Plotname: --Not assigned--
RRN-7-97-1_flashed

Sample Name: RRN-7-97-1_flashed
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-97-1_flashed
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Aug 5 2011

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7225128 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 52 sec
Sample Name: RRN-7-97-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-97-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jun 5 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
1100 repetitions

OBSERVE C13, 125.6528815 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 55 min
Sample Name:
RRN-10-65-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-10-65-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Dec 6 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec
Sample Name: RRN-10-65-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-65-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Dec 6 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.600 sec
Width 31446.5 Hz
1300 repetitions
OBSERVE C13, 125.6509062 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min
Sample Name:
RRN-10-35-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-10-35-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Nov 27 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec
Sample Name: RRN-10-35-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-35-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Nov 27 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE C13, 125.6509100 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min
Sample Name: RRN-10-37-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-37-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Nov 27 2012

Sample #44, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name: RRN-10-37-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-37-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Nov 27 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE C13, 125.6509139 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min
Sample Name: RRN-7-263-1_flashed
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-263-1_flashed
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 14 2011

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec

Plotname: --Not assigned--
Sample Name: RRN-7-263-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-263-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdc13
Data collected on: Jan 24 2012

Sample #39, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1650 repetitions
OBSERVE C13, 125.6553329 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

Plotname: --Not assigned--
Sample Name: RRN-8-277-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-277-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3
Data collected on: Apr 23 2012

Sample #31, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 12 sec

Plotname: --Not assigned--
Sample Name: RRN-8-277-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vmrmsys/data
Sample directory: RRN-8-277-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Apr 23 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.400 sec
Width 31466.5 Hz
1400 repetitions
OBSERVE  C13, 125.6528729 MHz
DECOUPLE  H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

Plotname: --Not assigned--
Sample Name: RRN-8-245-1H  
Data Collected on: indy.caltech.edu-inova500  
Archive directory: /home/nanir/vnmrsys/data  
Sample directory: RRN-8-245-1H  
FidFile: PROTON02  

Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3  
Data collected on: Jun 5 2012  

Sample #44, Operator: nanir  
Relax. delay 2.000 sec  
Pulse 45.0 degrees  
Acq. time 2.500 sec  
Width 8000.0 Hz  
16 repetitions  
OBSERVE H1, 499.7127412 MHz  
DATA PROCESSING  
Line broadening 0.2 Hz  
FT size 65536  
Total time 1 min 12 sec  

Plotname: --Not assigned--
Sample Name: RRN-8-245-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-245-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Apr 14 2012

Sample #38, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.600 sec
Width 31446.5 Hz
1300 repetitions
OBSERVE C13, 125.6528739 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

Plotname: --Not assigned--
Sample Name: RRN-9-65-1_flashed
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-65-1_flashed
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: May 30 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees sec
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec

Plotname: --Not assigned--
Sample Name:
RRN-9-65-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-9-65-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jun 18 2012

Sample #44, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
1200 repetitions
OBSERVE  C13, 125.6528777 MHz
DECOUPLE  H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 56 min

Plotname: --Not assigned--
Sample Name: RRN-9-274-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-274-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Nov 7 2012

Sample #45, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 56 sec
Sample Name:
  RRN-9-274-13C
Data Collected on:
  indy.caltech.edu-inova500
Archive directory:
  /home/nanir/vnmrsys/data
Sample directory:
  RRN-9-274-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Nov 7 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.400 sec
Width 31446.5 Hz
1300 repetitions
OBSERVE C13, 125.6509043 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 52 min

Ph
3
16c

Ph

OH

1

200 180 160 140 120 100 80 60 40 20
ppm
Sample Name:
RRN-8-95-pHPLC_test_2
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-8-95-pHPLC_test_2
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdc13
Data collected on: Mar 28 2012

Sample #39, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec
Sample Name: RRN-8-95-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-95-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul) 
Solvent: cdc13 
Data collected on: Mar 28 2012

Sample #38, Operator: nanir

Relax. delay 1.000 sec 
Pulse 45.0 degrees 
Acq. time 1.400 sec 
Width 31446.5 Hz 
1400 repetitions 
OBSERVE C13, 125.6553281 MHz 
DECOUPLE H1, 499.7250019 MHz 
Power 39 dB 
continuously on 
WALTZ-16 modulated 
DATA PROCESSING 
Line broadening 0.5 Hz 
FT size 65536 
Total time 56 min

MeO

16d

ppm

200 180 160 140 120 100 80 60 40 20 0

S141
Sample Name: RRN-9-121-pHPLC_test_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-121-pHPLC_test_II
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 11 2012

Sample #44, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7127412 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec
Sample Name: RRN-9-121-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-121-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdc13
Data collected on: Jul 12 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31446.5 Hz
512 repetitions
OBSERVE C13, 125.6528719 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 21 min
Sample Name:
RRN-9-81-1H
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-9-81-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jun 17 2012

Sample #44, Operator: nanir
Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 12 sec
Sample Name: RRN-9-81-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-81-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jun 17 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 31446.5 Hz
512 repetitions
OBSERVE C13, 125.6528767 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 19 min
Sample Name:
RRN-9-235-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-9-235-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 21 2012

Sample #45, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name: RRN-9-235-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-235-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 21 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.400 sec
Width 31446.5 Hz
1300 repetitions

OBSERVE C13, 125.6509043 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 52 min
Sample Name:
RRN-9-255-13C
Data Collected on:
dindy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-9-255-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 26 2012

Sample #45, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE  H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 56 sec
Sample Name: RRN-9-255-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-255-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 26 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.400 sec
Width 3146.5 Hz
1300 repetitions
OBSERVE  C13, 125.6509033 MHz
DECOUPLE  H1, 499.7074131 MHz
Power 39 dB continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 52 min
Sample Name: RRN-9-261-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-261-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 29 2012

Sample #44, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 56 sec
Sample Name: RRN-9-261-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-261-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 29 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31446.5 Hz
1200 repetitions

OBSERVE C13, 125.6509043 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 50 min
Sample Name:
RRN-7-169-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-7-169-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Aug 22 2012

Sample #44, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7127430 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec
Sample Name: RRN-7-169-13C-II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-169-13C-II
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Aug 22 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.200 sec
Width 31446.5 Hz
1500 repetitions
OBSERVE C13, 125.6528719 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 4.0 Hz
FT size 65536
Total time 55 min
Sample Name: RRN-8-207-C1-rex
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-207-C1-rex
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 21 2012

Sample #31, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 56 sec

Plotname: --Not assigned--
Sample Name:  
RRN-8-207-13C 
Data Collected on:  
indy.caltech.edu-inova500 
Archive directory:  
/home/nanir/vnmrsys/data 
Sample directory:  
RRN-8-207-13C 
FidFile: CARBON01 

Pulse Sequence: CARBON (s2pul) 
Solvent: cdc13 
Data collected on: Mar 21 2012 

Sample #38, Operator: nanir 
Relax. delay 1.000 sec 
Pulse 45.0 degrees 
Acq. time 1.042 sec 
Width 31446.5 Hz 
1700 repetitions 
OBSERVE  C13, 125.6553281 MHz 
DECOUPLE  H1, 499.7250019 MHz 
Power 39 dB 
continuously on 
WALTZ-16 modulated 
DATA PROCESSING 
Line broadening 5.0 Hz 
FT size 65536 
Total time 58 min 

Plotname: --Not assigned--
Sample Name: RRN-8-211-retest_1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-211-retest_1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 21 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec
Sample Name: RRN-8-211-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-211-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Mar 21 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1700 repetitions

OBSERVE C13, 125.6553271 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 58 min

Plotname: --Not assigned--
Sample Name: RRN-9-139-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vmrsys/data
Sample directory: RRN-9-139-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Aug 20 2012

Sample #45, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7127430 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 56 sec
Sample Name: RRN-9-139-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-139-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdc13
Data collected on: Aug 20 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1600 repetitions
OBSERVE C13, 125.6528719 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 54 min
Sample Name: RRN-9-263-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-263-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 31 2012

Sample #44, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE  H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 56 sec
Sample Name: RRN-9-263-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-263-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 31 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31446.5 Hz
1300 repetitions

OBSERVE C13, 125.6509072 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 54 min

ppm
200 180 160 140 120 100 80 60 40 20

13h

C
N
O
H
13h
Sample Name: RRN-7-219-1H_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-219-1H_II
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cd3cn
Data collected on: Jun 11 2012

Sample #44, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7153977 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 12 sec

Plotname: --Not assigned--
Sample Name: RRN-7-219-13C_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-219-13C_II
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cd3cn
Data collected on: Jun 11 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.200 sec
Width 31446.5 Hz
512 repetitions
OBSERVE C13, 125.6534119 MHz
DECOUPLE H1, 499.7178738 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 18 min

Plotname: --Not assigned--
Sample Name: RRN-7-295-1H_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-295-1H_II
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cd3cn
Data collected on: Jun 14 2012

Sample #42, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7153979 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-7-295-13C_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-295-13C_II
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cd3cn
Data collected on: Jun 14 2012

Sample #43, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 31446.5 Hz
1000 repetitions
OBSERVE C13, 125.6534138 MHz
DECOUPLE H1, 499.7178738 MHz
Power 39 dB continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 38 min

Plotname: --Not assigned--
Sample Name: test
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: test
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 11 2012

Sample #39, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE  H1, 499.7127432 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec

13k

ppm

11 10 9 8 7 6 5 4 3 2 1
0 1.0 1.1
0.9 1.0 1.1
1.0 1.1 0.9
1.0 1.1 0.9
2.25 1.15 1.16
1.15 1.18 1.16
1.18
Sample Name: RRN-9-217-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-217-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 11 2012

Sample #38, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1600 repetitions

OBSERVE  C13, 125.6528719 MHz
DECOUPLE  H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 54 min
Sample Name: RRN-7-77-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-77-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 12 2012

Sample #44, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 12 sec

Plotname: --Not assigned--

S168
Sample Name: RRN-7-77-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-77-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Mar 12 2012

Sample #45, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31446.5 Hz
512 repetitions

OBSERVE C13, 125.6553339 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB continuously on

WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 29 min

Plotname: --Not assigned--
Sample Name: RRN-7-297-pHPLC
Data Collected on:indy.caltech.edu-inova500
Archive directory:/home/nanir/vnmrsys/data
Sample directory:RRN-7-297-pHPLC
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 29 2012

Sample #45, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions

OBSERVE  H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 12 sec

Plotname: --Not assigned--
Sample Name: RRN-7-297-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-297-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Mar 29 2012

Sample #44, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1700 repetitions
OBSERVE C13, 125.6553271 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 58 min

Plotname: --Not assigned--
Sample Name: RRN-9-87-1_2nd_column
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-87-1_2nd_column
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jun 26 2012

Sample #39, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-9-87-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-87-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jun 26 2012

Sample #38, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31446.5 Hz
512 repetitions

OBSERVE C13, 125.6528739 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB continuously on

WALTZ-16 modulated

DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 21 min

Plotname: --Not assigned--
Sample Name: RRN-9-180-rex
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-180-rex
PfidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdc13
Data collected on: Oct 29 2012

Sample #45, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name: RRN-9-180-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-180-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 30 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.200 sec
Width 31446.5 Hz
1500 repetitions
OBSERVE C13, 125.6509014 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 55 min
Sample Name: RRN-7-25-rex
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-25-rex
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdc3
Data collected on: Mar 5 2012

Sample #25, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec

Plotname: --Not assigned--
Sample Name: RRN-7-25-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-25-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdc13
Data collected on: Mar 6 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
384 repetitions
OBSERVE C13, 125.6553339 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 19 min

Plotname: --Not assigned--
Sample Name: RRN-7-32-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-32-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 9 2012

Sample #45, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 24 sec

Plotname: --Not assigned--
Sample Name: RRN-7-32-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-32-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Mar 9 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1600 repetitions
OBSERVE C13, 125.6553291 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 54 min
Sample Name: RRN-7-75-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-75-13C
FidFile: PROTON001

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 13 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-7-75-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory:
RRN-7-75-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Mar 13 2012

Sample #45, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31466.5 Hz
900 repetitions

OBSERVE C13, 125.6553339 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 4.0 Hz
FT size 65536
Total time 52 min

Plotname: --Not assigned--
Sample Name: RRN-7-27-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-27-1H
FidFile: PROTON02

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 14 2012

Sample #44, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec

Plotname: --Not assigned--
Sample Name: RRN-7-27-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-27-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Mar 14 2012

Sample #39, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
512 repetitions

OBSERVE C13, 125.6553377 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 25 min

Plotname: --Not assigned--
Sample Name: RRN-7-73-III-1H
Data Collected on:indy.caltech.edu-inova500
Archive directory:/home/nanir/vnmrsys/data
Sample directory:RRN-7-73-III-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 13 2012

Sample #38, Operator: nanir
Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 12 sec

Plotname: --Not assigned--
Sample Name: RRN-7-73-III_13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-73-III_13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Mar 13 2012

Sample #39, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 31446.5 Hz
1000 repetitions

OBSERVE  C13, 125.6553319 MHz
DECOUPLE  H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 55 min

Plotname: --Not assigned--
Sample Name:
RRN-10-85-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-10-85-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Dec 16 2012

Sample #44, Operator: nanir
Relax. delay 4.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 44 sec
Sample Name: RRN-10-85-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-85-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Dec 16 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
512 repetitions
OBSERVE C13, 125.6509072 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 25 min
Sample Name: RRRN-7-67-rex_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRRN-7-67-rex_II
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cd2cl2
Data collected on: Mar 8 2012

Sample #45, Operator: nanir

Relax. delay 2.000 sec  
Pulse 45.0 degrees  
Acq. time 2.500 sec  
Width 8000.0 Hz  
32 repetitions  
OBSERVE H1, 499.7234788 MHz  
DATA PROCESSING  
Line broadening 0.2 Hz  
FT size 65536  
Total time 2 min 24 sec

Plotname: --Not assigned--
Sample Name: RRN-7-67-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-67-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cd2cl2
Data collected on: Mar 8 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31446.5 Hz
640 repetitions
OBSERVE C13, 125.6555202 MHz
DECOUPLE H1, 499.7259614 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 26 min

Plotname: --Not assigned--
Sample Name: RRN-7-262-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-262-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdc13
Data collected on: Feb 7 2012

Sample #38, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 52 sec

Plotname: --Not assigned--
Sample Name: RRN-7-262-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-262-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Feb 7 2012

Sample #39, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
1600 repetitions
OBSERVE C13, 125.6553300 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 3.0 Hz
FT size 65536
Total time 54 min

Plotname: --Not assigned--
Sample Name:
RRN-7-57-V-1H
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-7-57-V-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Mar 14 2012

Sample #39, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 56 sec

Plotname: --Not assigned--
Sample Name: RRN-7-57-V-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-57-V-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Mar 14 2012

Sample #39, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
512 repetitions
OBSERVE C13, 125.6553310 MHz
DECOUPLE H1, 499.7250019 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 5.0 Hz
FT size 65536
Total time 34 min

Plotname: --Not assigned--
Sample Name: RRN-7-107-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-7-107-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jun 6 2012

Sample #44, Operator: nanir

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 12 sec
Sample Name:
RRN-7-107-13C

Data Collected on:
indy.caltech.edu-inova500

Archive directory:
/home/nanir/vnmrsys/data

Sample directory:
RRN-7-107-13C

FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jun 6 2012

Sample #43, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
256 repetitions

OBSERVE C13, 125.6528844 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on

WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 12 min
Sample Name: RRN-10-71-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-71-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Dec 9 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec
Sample Name: RRN-10-71-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-71-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Dec 9 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
256 repetitions
OBSERVE C13, 125.6509062 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 12 min

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24b

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ppm

200 180 160 140 120 100 80 60 40 20

S197
Sample Name: RRN-10-59-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-59-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Dec 3 2012

Sample #48, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec

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![Chemical Structure](image)
Sample Name: RRN-10-59-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-59-13C
PfdFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Dec 3 2012

Sample #48, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.700 sec
Width 31446.5 Hz
512 repetitions

OBSERVE C13, 125.6509072 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 23 min
Sample Name: RRN-10-61-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-61-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Dec 4 2012

Sample #39, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name:
  RRN-10-61-13C
Data Collected on:
  indy.caltech.edu-inova500
Archive directory:
  /home/nanir/vnmrsys/data
Sample directory:
  RRN-10-61-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Dec 4 2012

Sample #39, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.700 sec
Width 31446.5 Hz
512 repetitions
OBSERVE  C13, 125.6509091 MHz
DECOUPLE  H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 23 min
Sample Name: RRN-8-287-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-287-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: May 2 2012

Sample #38, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name: RRN-8-287-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-287-13C
FidFile: CARBON02

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: May 2 2012

Sample #39, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
512 repetitions
OBSERVE C13, 125.6528787 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 25 min
Sample Name: RRN-9-111-1H
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-111-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 9 2012

Sample #45, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE  H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 56 sec
Sample Name: RRN-9-111-13C_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-111-13C_II
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 9 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31466.5 Hz
512 repetitions
OBSERVE C13, 125.6528729 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 21 min
Sample Name: RRN-8-246-1H_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-8-246-1H_II
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3  
Data collected on: Jun 5 2012

Sample #45, Operator: nanir

Relax. delay 3.000 sec  
Pulse 45.0 degrees  
Acq. time 2.500 sec  
Width 8000.0 Hz  
32 repetitions  
OBSERVE H1, 499.7127412 MHz  
DATA PROCESSING  
Line broadening 0.2 Hz  
FT size 65536  
Total time 2 min 56 sec
Sample Name:
RRN-8-246-13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-8-246-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jun  5 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 31446.5 Hz
384 repetitions

OBSERVE  C13, 125.6528729 MHz
DECOUPLE  H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 14 min
Sample Name: RRN-9-123-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-123-13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 16 2012

Sample #39, Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7127410 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name: RRN-9-123-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-123-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jul 16 2012

Sample #39, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.800 sec
Width 31446.5 Hz
512 repetitions

OBSERVE C13, 125.6528719 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 23 min
Sample Name: RRN-9-298-1H
Data Collected on: fid.caltech.edu-inova600
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-298-1H_20121213_01
FidFile: data_s2pul_001

Pulse Sequence: PROTON (s2pul)
Solvent: cdc13
Data collected on: Dec 13 2012

Temp. 25.0 C / 298.1 K
Operator: nanir

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 1.705 sec
Width 9611.9 Hz
16 repetitions

OBSERVE H1, 599.6396308 MHz
DATA PROCESSING
FT size 32768
Total time 1 min 15 sec

1H – 1H Correlations via COSY analysis

26-keto

26-enol

ppm
Sample Name: RRN-9-298-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-298-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdc13
Data collected on: Dec 15 2012

Sample #44, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.400 sec
Width 31446.5 Hz
1300 repetitions
OBSERVE C13, 125.6509033 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 52 min

Selected $^1$H – $^{13}$C Correlations via HSCQ, HMBC analysis
Selected nOe Correlations
RRN-9-275-13C

Sample Name: RRN-9-275-13C
Data Collected on: fid.caltech.edu-inova600
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-275-13C_20121216_02
FidFile: data_s2pul_001

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Dec 16 2012

Temp. 25.0 C / 298.1 K
Operator: nanir

Relax. delay 4.000 sec
Pulse 45.0 degrees
Acq. time 1.705 sec
Width 9611.9 Hz
32 repetitions

OBSERVE  H1, 599.6396314 MHz
DATA PROCESSING
FT size 32768
Total time 3 min 3 sec

$^{1}$H – $^{1}$H Correlations via COSY analysis
Sample Name: RRN-9-275-13C_II
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-275-13C_II
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Dec 16 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31446.5 Hz
4000 repetitions
OBSERVE C13, 125.6508995 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 2 hr, 47 min

Selected $^1$H – $^{13}$C Correlations via HSCQ, HMBC analysis
Selected nOe Correlations
minor diastereomer

Sample Name:
  RRN-9-225-1H
Data Collected on:
  indy.caltech.edu-inova500
Archive directory:
  /home/nanir/vnmrsys/data
Sample directory:
  RRN-9-225-1H
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 19 2012

Sample #45, Operator: nanir

Relax. delay 4.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
32 repetitions
OBSERVE   H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 3 min 28 sec
Sample Name:
  RRN-9-225-13C
Data Collected on:
  indy.caltech.edu-inova500
Archive directory:
  /home/nanir/vnmrsys/data
Sample directory:
  RRN-9-225-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 16 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.400 sec
Width 31446.5 Hz
512 repetitions
OBSERVE  C13, 125.6509043 MHz
DECOUPLE  H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 20 min

endo-28
Sample Name: RRN-9-163-ppt
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-163-ppt
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Aug 31 2012

Sample #44, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7127430 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 56 sec
Sample Name: RRN-9-163-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-9-163-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Oct 2 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.500 sec
Width 31446.5 Hz
512 repetitions

OBSERVE C13, 125.6528758 MHz
DECOUPLE H1, 499.7152303 MHz
Power 39 dB
continuously on
WALTZ-16 modulated

DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 21 min
Sample Name: RRN-10-73-2_endo
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-73-2_endo
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Dec 12 2012

Sample #45, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE  H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 0 min 28 sec
Sample Name: RRN-10-73-2-13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-73-2-13C
FidFile: CARBON01

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Dec 11 2012

Sample #44, Operator: nanir

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 31446.5 Hz
800 repetitions
OBSERVE C13, 125.6509024 MHz
DECOUPLE H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 30 min
Sample Name:
RRN-10-73-3_13C
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nanir/vnmrsys/data
Sample directory:
RRN-10-73-3_13C
FidFile: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdc13
Data collected on: Dec 16 2012

Sample #45, Operator: nanir
Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE  H1, 499.7049151 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 28 sec
Sample Name: RRN-10-73-3_13C
Data Collected on: indy.caltech.edu-inova500
Archive directory: /home/nanir/vnmrsys/data
Sample directory: RRN-10-73-3_13C
FidFile: CARBON01
Pulse Sequence: CARBON (s2pul)
Solvent: cdc3
Data collected on: Dec 16 2012

Sample #45, Operator: nanir
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.000 sec
Width 31446.5 Hz
512 repetitions
OBSERVE  C13, 125.6509052 MHz
DECOUPLE  H1, 499.7074131 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 25 min