

Preparation of a Stable Trifluoroborate Salt for the Synthesis of 1-aryl-2,2-difluoro-enoethers and/or 2,2-difluoro-1-aryl-ketones via Palladium Mediated Cross-Coupling.

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Supporting Information: ^1H -NMR spectrum of 4b, and ^1H , ^{19}F , ^{13}C NMR spectra for compounds 4c, 7, 9a-j,l, 10, 11.

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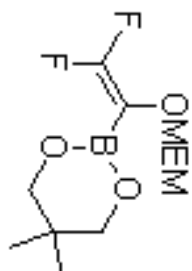
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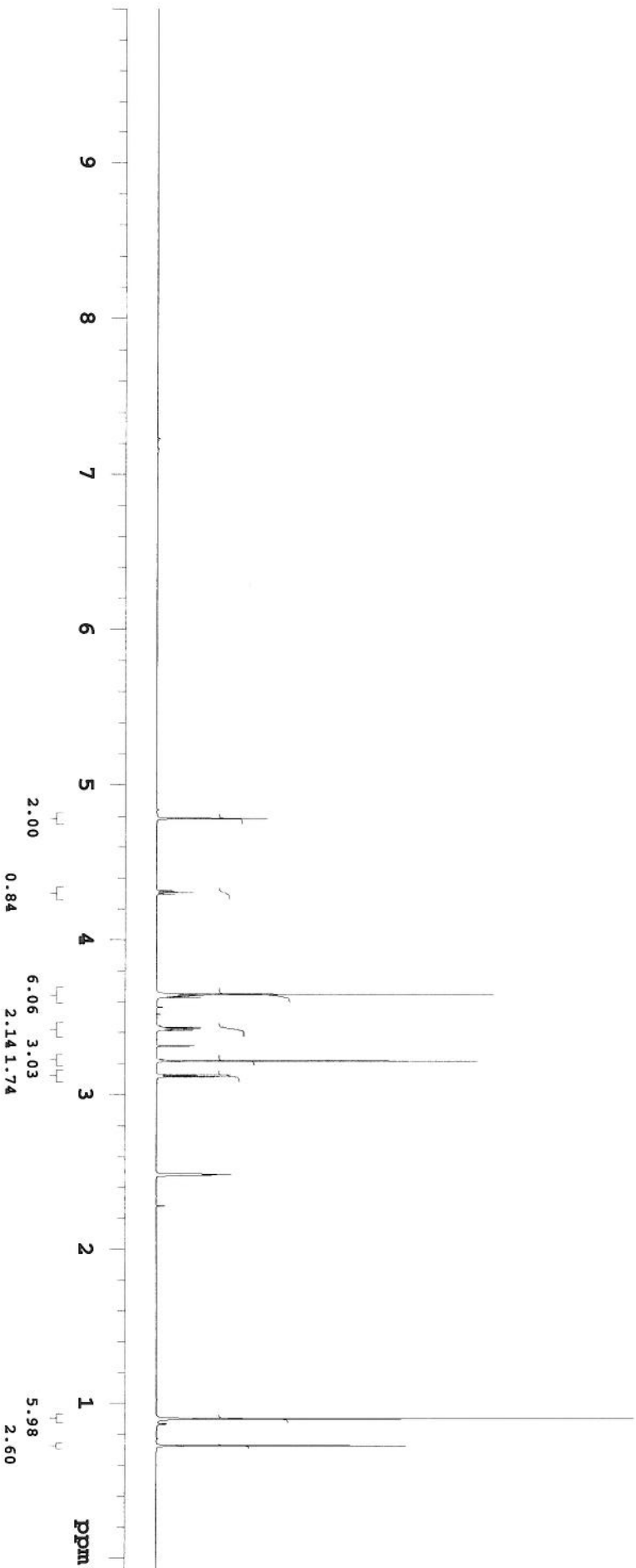
Sample name: 4b
 Notebook: 0285510, Page: 0102-2
 Data acquired: 12-Nov-2008, 11:00:38
 Data file name: Proton01.fid
 Data reprocessed: Fri Aug 14 16:10:19 EDT 2009
 Chemist: lapointb
 unknown, Probe: HFC_5mm_8835

Solvent: dmsd
 Ambient temperature

OBSERVE Proton, 499.813 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 8 scans
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536



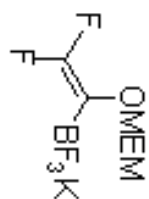
4b



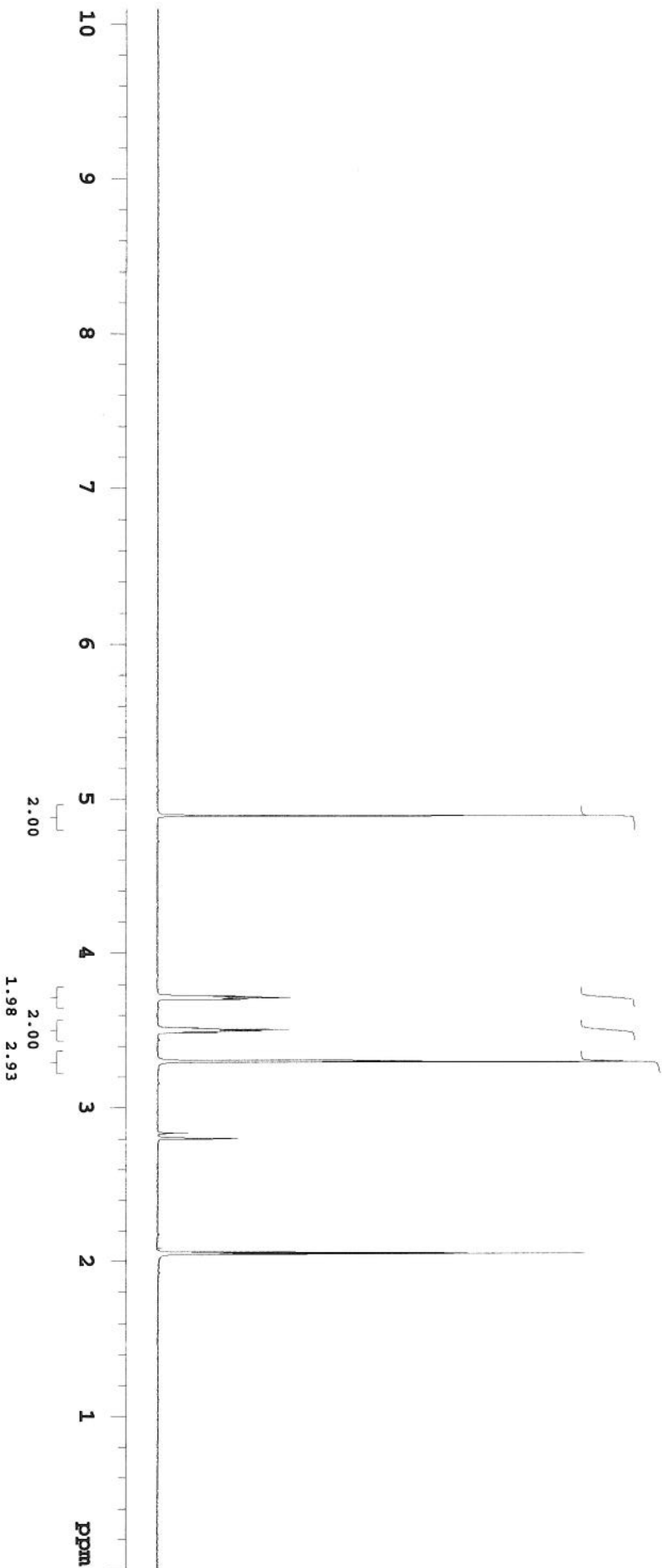
Sample name: 4c
 Notebook: 0285510, Page: 0116-1
 Data acquired: 25-Nov-2008, 15:53:34
 Data file name: Proton01.fid
 Data reprocessed: Fri Aug 14 16:05:57 EDT 2009
 Chemist: lapointb
 unknown , Probe: HFC_5mm_8835

Solvent: acetone
 Ambient temperature

OBSERVE Proton, 499.814 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 8 scans
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536



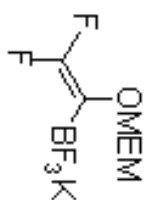
4c



Sample name: salt on 11.4.08
 Notebook: 0285510, Page: 0042
 Data acquired: 04-Nov-2008, 10:02:32
 Data file name: Fluorine01.fid
 Data reprocessed: Fri Aug 14 16:13:24 EDT 2009
 Chemist: lapointb
 unknown , Probe: HFC_5mm_8835

Solvent: dmsc
 Ambient temperature

OBSERVE Fluorine, 470.295 MHz
 Relax. delay 2.000 sec
 Pulse 30.0 degrees
 Acq. time 1.133 sec
 Width 69444.4 Hz
 32 scans
 DATA PROCESSING
 Line broadening 0.9 Hz
 Gauss apodization 0.462 sec
 FT size 262144



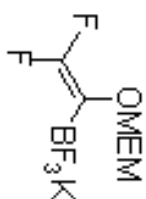
4c



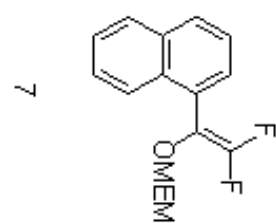
Sample name: BF3K salt
 Notebook: 0286498, Page: 0190-1
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 Data file name: Carbon01.fid
 Data reprocessed: Fri Aug 14 16:14:39 EDT 2009
 Chemist: katzj
 unknown , Probe: HFC_5mm_8835

Solvent: dmsc
 Ambient temperature

OBSERVE Carbon, 125.678 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 1.300 sec
 Width 30487.8 Hz
 256 scans
 DECOUPLE H1, 499.816 MHz
 Power 40 dB
 continuously on
 h1 WURST40 modulated
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 131072



220 200 180 160 140 120 100 80 60 40 20 0 ppm

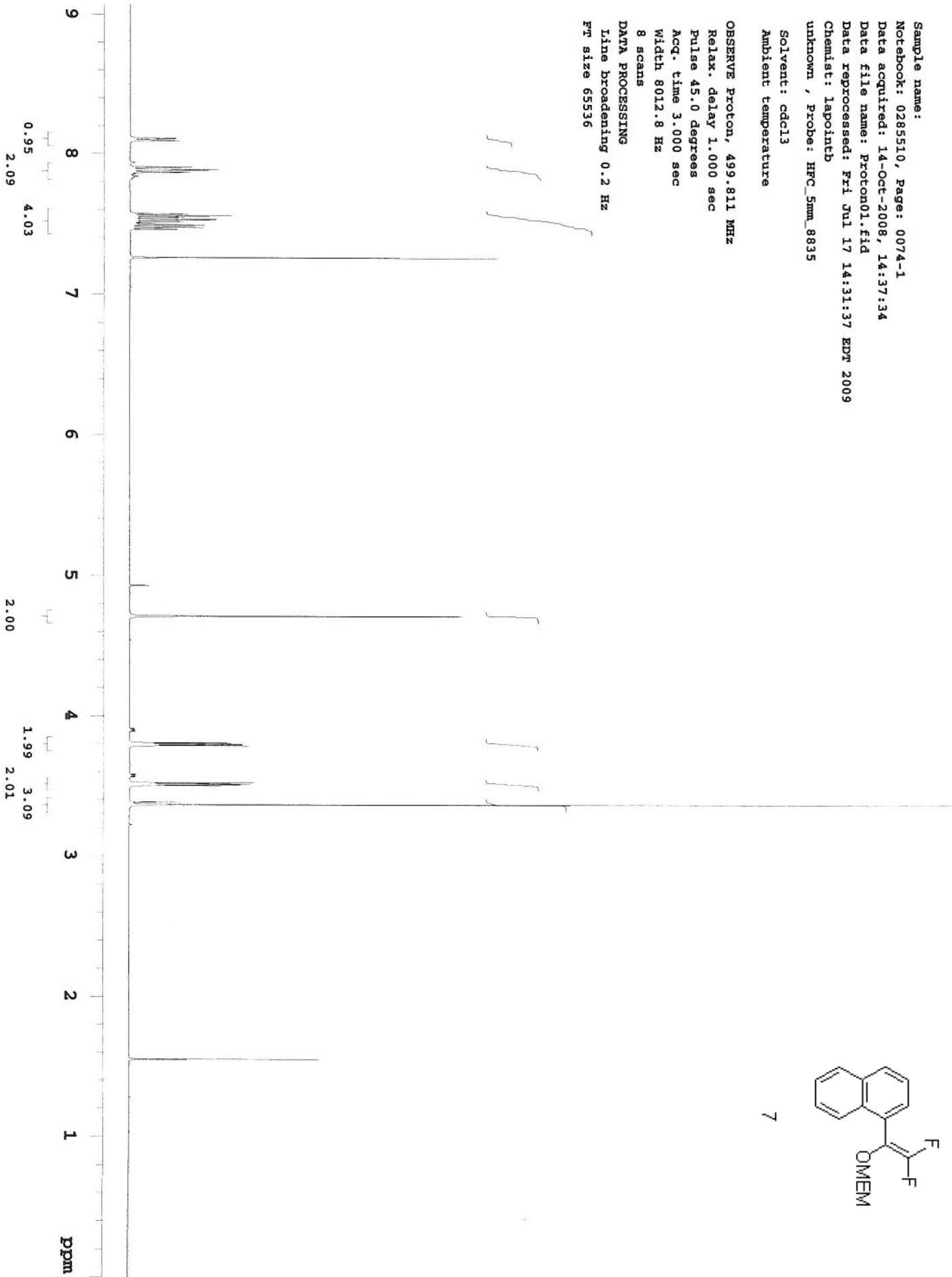


Sample name:
 Notebook: 0285510, Page: 0074-1
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 Data reprocessed: Fri Jul 17 14:31:37 EDT 2009
 Chemist: lapointb
 unknown, Probe: HFC_5mm_835

Solvent: cdcl3
 Ambient temperature

OBSERVE Proton, 499.811 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 8 scans

DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536



Sample name:

Notebook: 0296881, Page: 0048

Data acquired: 15-Jul-2009, 15:09:35

Data file name: Fluorine01.fid

Data reprocessed: Fri Jul 17 14:21:27 EDT 2009

Chemist: lapointb

unknown, Probe: CHF

Solvent: cdcl3

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.133 sec

Width 73529.4 Hz

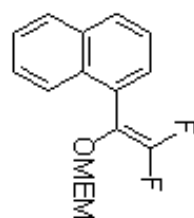
32 scans

DATA PROCESSING

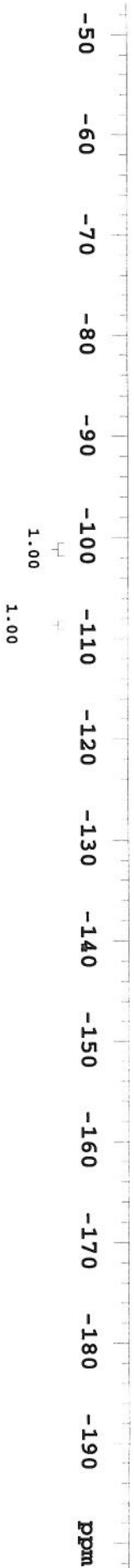
Line broadening 0.5 Hz

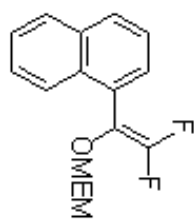
Gauss apodization 0.462 sec

FT size 262144



7





Sample name: carbon and proton
 Notebook: 0285510, Page: 0074-1
 Data acquired: 14-Oct-2008, 15:37:39
 Data file name: Carbon01.fid
 Data reprocessed: Fri Jul 17 14:19:18 EDT 2009
 Chemist: lapointb
 unknown , Probe: HFC_5mm_8335

Solvent: cdcl3
 Ambient temperature

OBSERVE Carbon, 125.678 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 1.300 sec
 Width 30487.8 Hz
 256 scans
 DECOUPLE H1, 499.814 MHz
 Power 39 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 131072

Page 9

220 200 180 160 140 120 100 80 60 40 20 0 ppm

Chemist: lapointb; Notebook: 0285510; Page: 0074-1

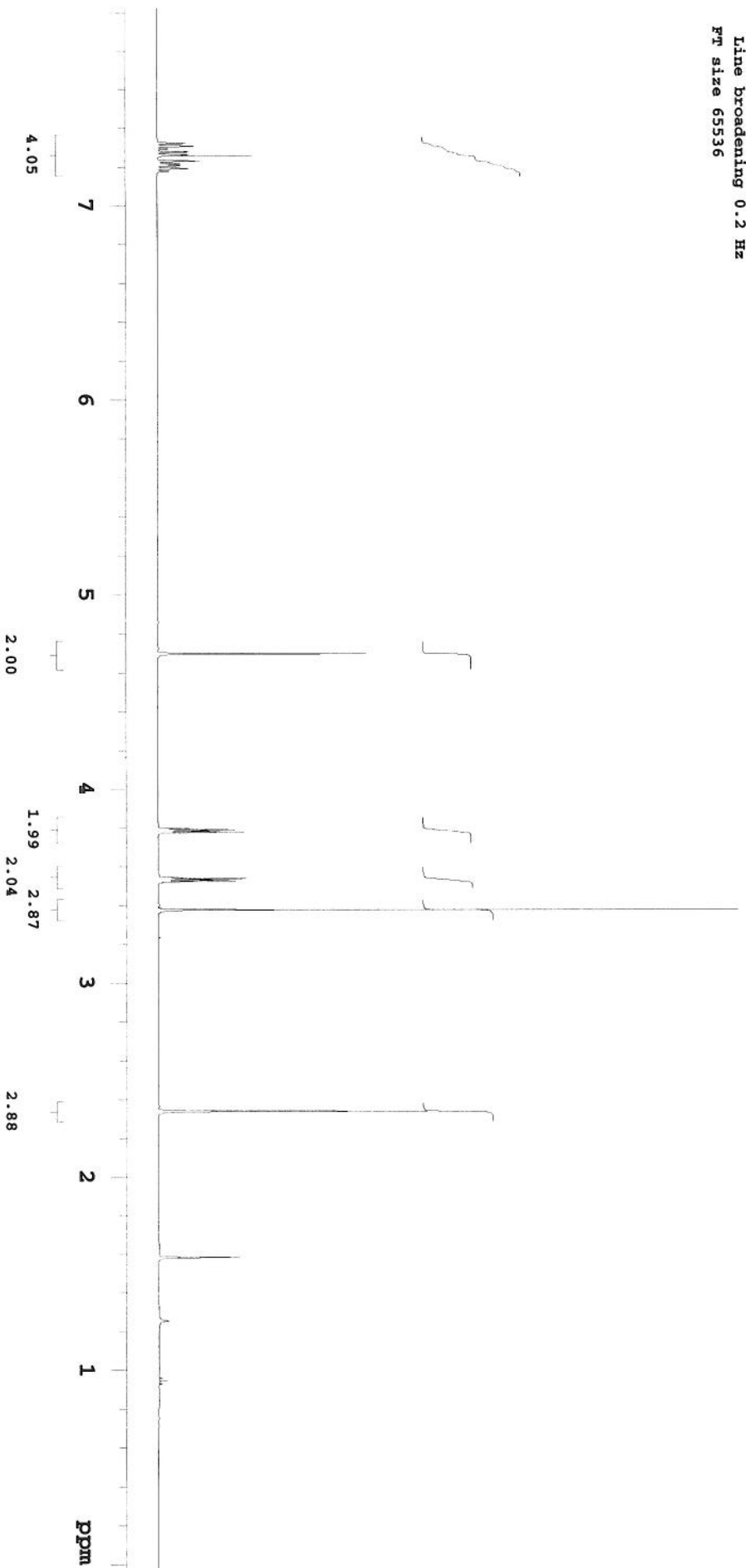
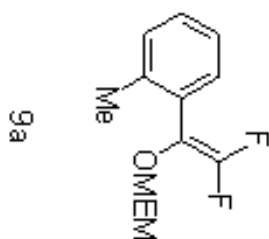
Plotted: 07/17 14:19:18

Restricted Confidential, Limited Access

Sample name: 9a
Notebook: 0296881, Page: 0029
Data acquired: 26-Jun-2009, 10:57:07
Data file name: Proton02.fid
Data reprocessed: Mon Jul 20 17:51:16 EDT 2009
Chemist: lapointb
unknown, Probe: HFC_5mm_8835

Solvent: cdcl3
Ambient temperature

OBSERVE Proton, 499.811 MHz
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.000 sec
Width 8012.8 Hz
8 scans
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536



Sample name:

Notebook: 0296881, Page: 0029

Data acquired: 02-Jul-2009, 17:29:34

Data file name: Fluorine02.fid

Data reprocessed: Fri Jul 17 14:46:54 EDT 2009

Chemist: lapointb

unknown, Probe: CHF

Solvent: cdcl3

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.133 sec

Width 73529.4 Hz

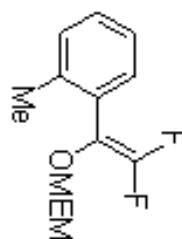
32 scans

DATA PROCESSING

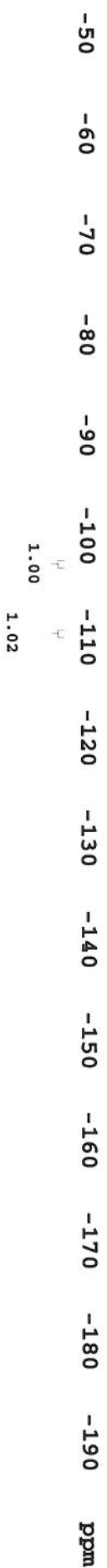
Line broadening 0.9 Hz

Gauss apodization 0.462 sec

FT size 262144



9a



Sample name:

Notebook: 0285510, Page: 0066-2

Data acquired: 07-Oct-2008, 19:04:54

Data file name: Carbon01.fid

Data reprocessed: Fri Jul 17 14:48:07 EDT 2009

Chemist: lapointb

unknown , Probe: HFC_5mm_8335

Solvent: cdcl3

Ambient temperature

OBSERVE Carbon, 125.678 MHz

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 30487.8 Hz

2000 scans

DECOUPLE H1, 499.814 MHz

Power 39 dB

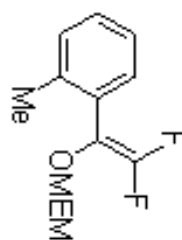
continuously on

WALTZ-16 modulated

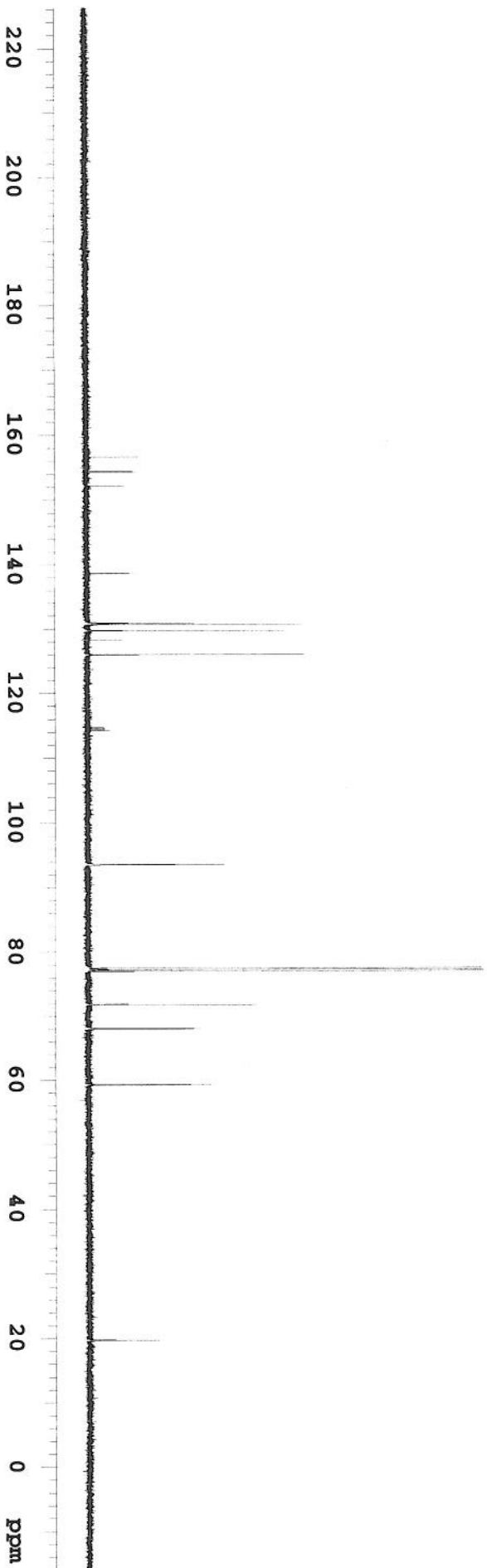
DATA PROCESSING

Line broadening 0.5 Hz

FT size 131072



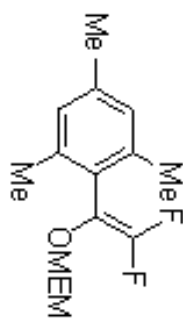
9a



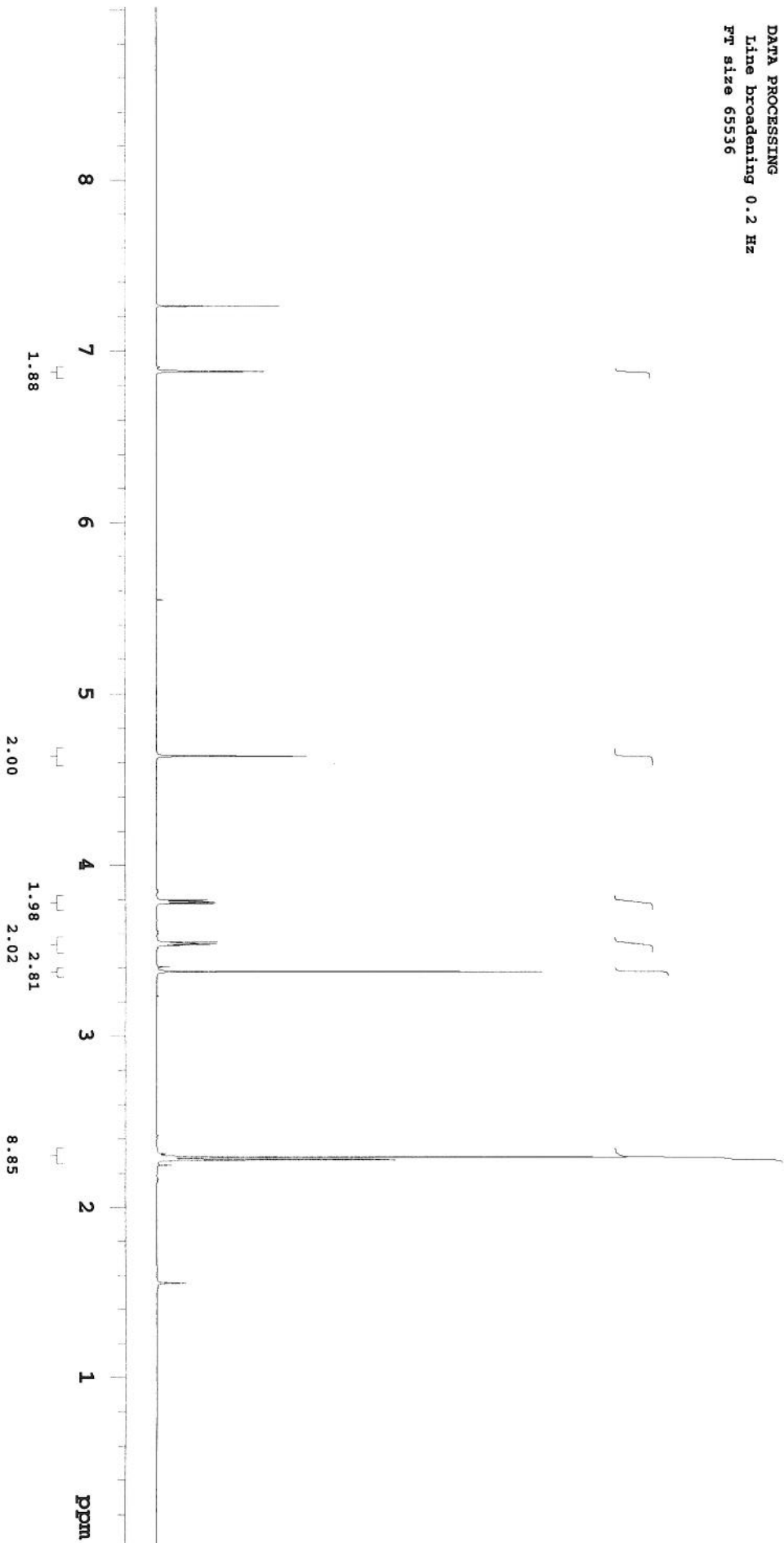
Sample name: 9b
 Notebook: 0296881, Page: 0056
 Data acquired: 23-Jul-2009, 14:04:01
 Data file name: Proton02.fid
 Chemist: lapointb
 unknown, Probe: CHF

Solvent: cdcl3
 Ambient temperature

OBSERVE Proton, 499.811 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 16 scans
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536



9b



Sample name:

Notebook: 0296881, Page: 0028

Data acquired: 26-Jun-2009, 10:52:36

Data file name: Fluorine01.fid

Data reprocessed: Fri Jul 17 14:15:15 EDT 2009

Chemist: lapointb

unknown , Probe: HFC_5mm_8835

Solvent: cdcl3

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.133 sec

Width 73529.4 Hz

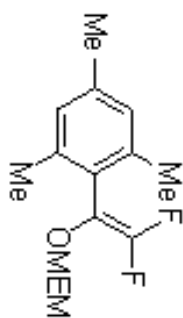
32 scans

DATA PROCESSING

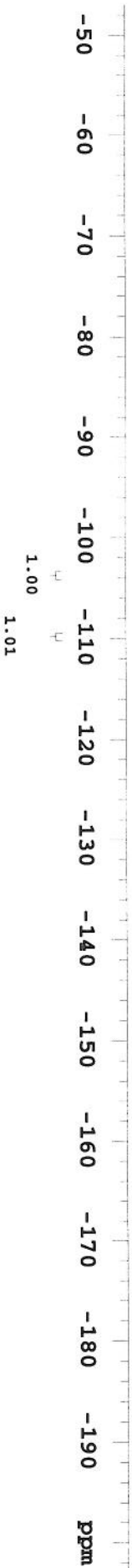
Line broadening 0.9 Hz

Gauss apodization 0.462 sec

FT size 262144



9b



Sample name:

Notebook: 0285510, Page: 0090-4

Data acquired: 05-Nov-2008, 14:37:57

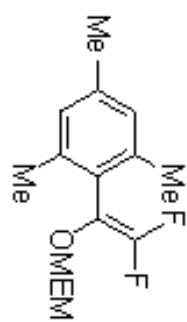
Data file name: Carbon01.fid

Data reprocessed: Fri Jul 17 14:12:48 EDT 2009

Chemist: lapointb

unknown, Probe: HFC_5mm_835

9b

Solvent: cdcl3
Ambient temperature

OBSERVE Carbon, 125.678 MHz

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 30487.8 Hz

256 scans

DECOUPLE H1, 499.814 MHz

Power 40 dB

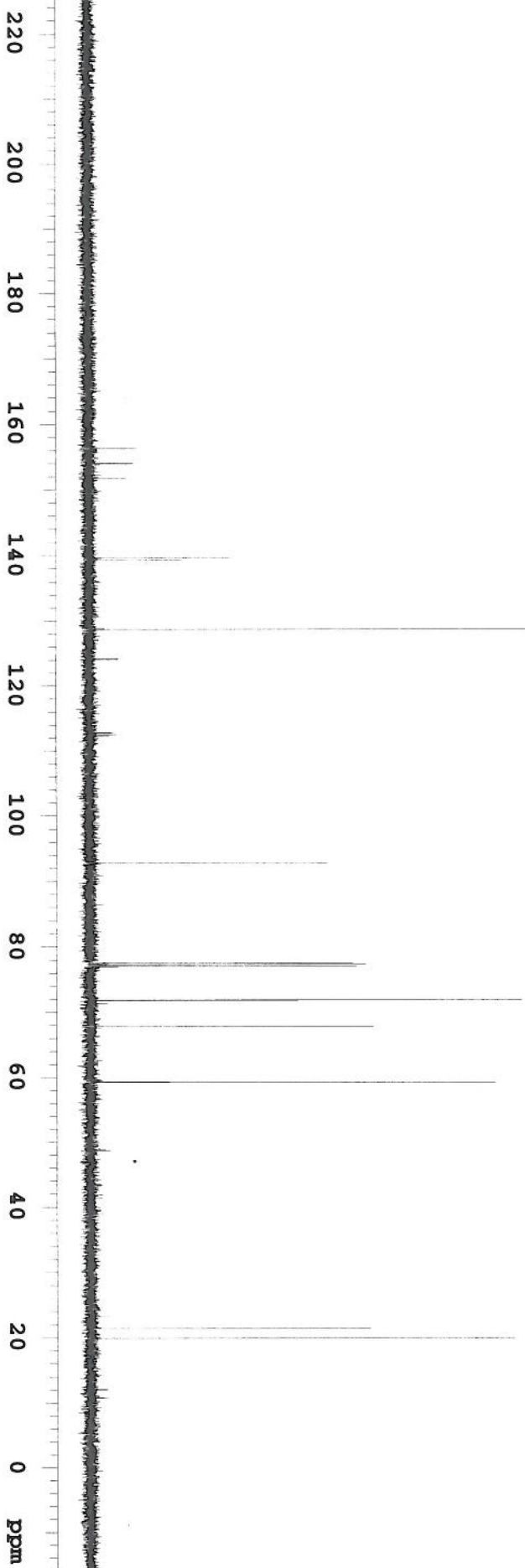
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h1_WURST40 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 131072

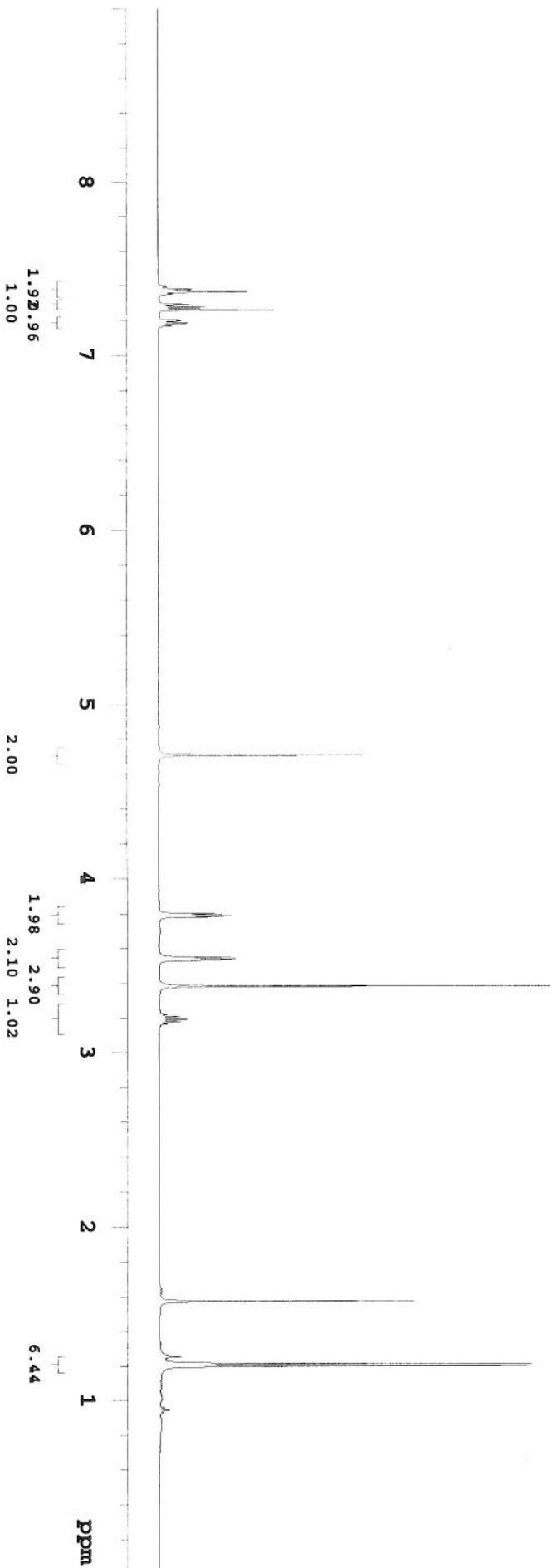
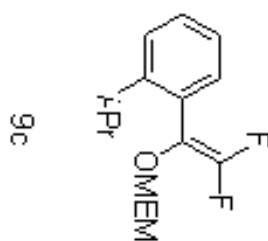


Sample name: 9c
 Notebook: 0296881, Page: 0032
 Data acquired: 17-Jul-2009, 11:36:40
 Data file name: Proton02.fid
 Chemist: lapointb
 unknown, Probe: CHF

Solvent: cdcl3
 Ambient temperature

OBSERVE Proton, 499.811 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 16 scans

DATA PROCESSING
 Line broadening 1.0 Hz
 FT size 65536



Sample name:

Notebook: 0296881, Page: 0032

Data acquired: 17-Jul-2009, 11:38:24

Data file name: Fluorine02.fid

Chemist: lapointb

unknown, Probe: CHF

Solvent: cdcl3

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.133 sec

Width 73529.4 Hz

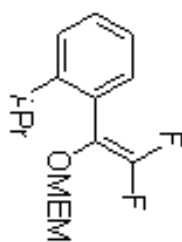
32 scans

DATA PROCESSING

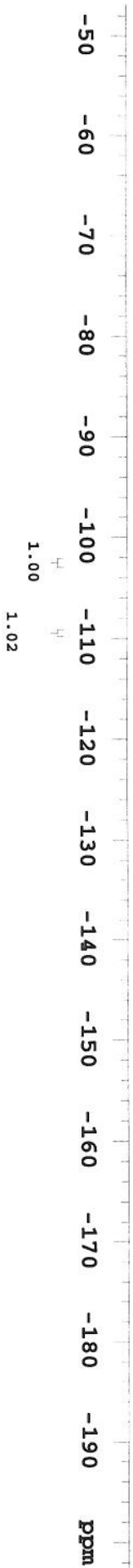
Line broadening 0.9 Hz

Gauss apodization 0.462 sec

FT size 262144



9c



Sample name:

Notebook: 0296881, Page: 0032

Data acquired: 20-Jul-2009, 15:05:15

Data file name: Carbon01.fid

Chemist: lapointb

unknown, Probe: CHF

Solvent: cdcl3

Ambient temperature

OBSERVE Carbon, 125.678 MHz

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 30487.8 Hz

256 scans

DECOUPLE H1, 499.814 MHz

Power 45 dB

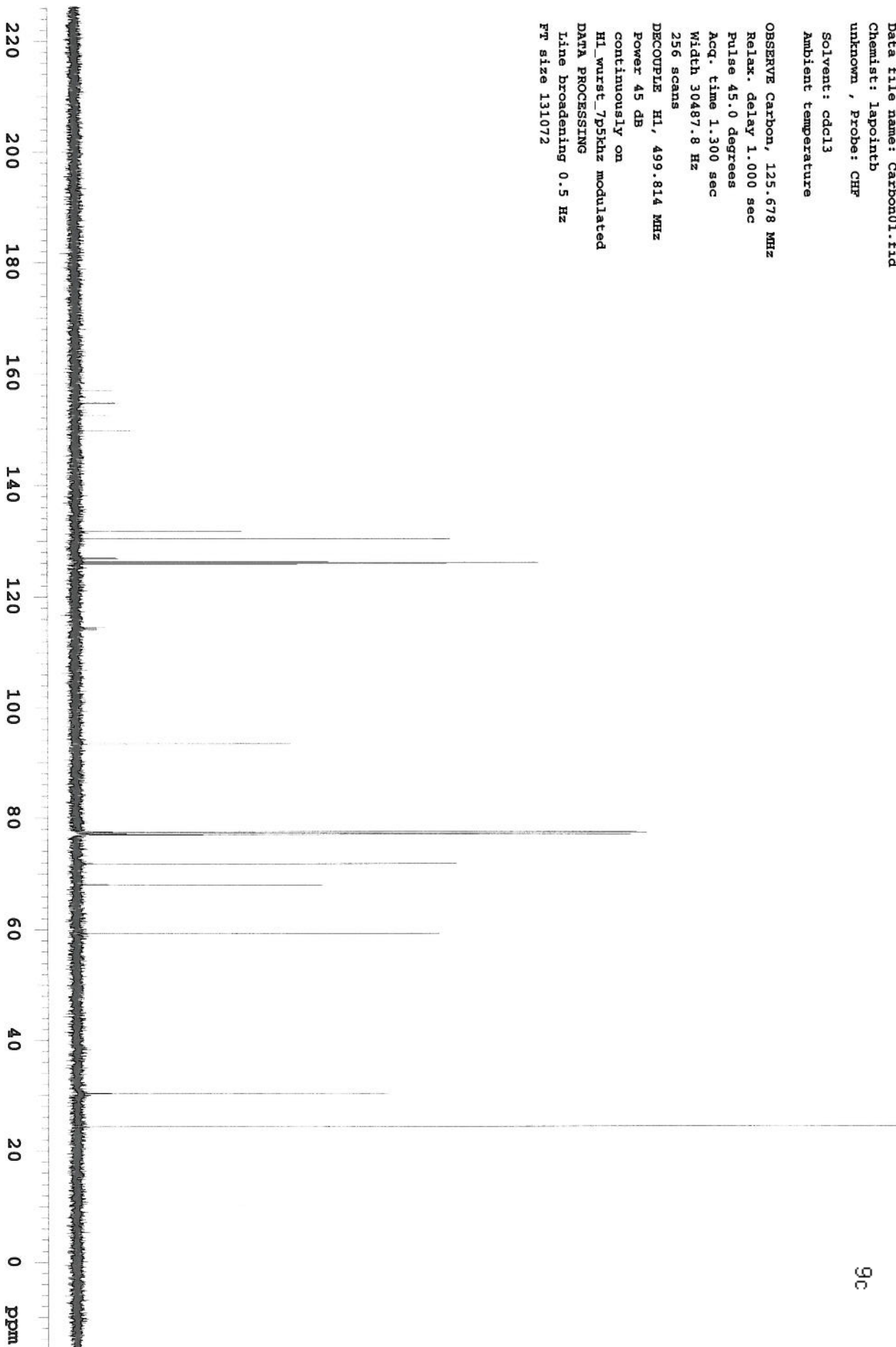
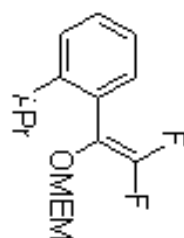
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H1_wurst_7p5khz modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 131072

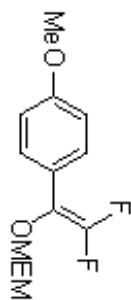


Sample name: 9d
 Notebook: 0285510, Page: 0061-1
 Data acquired: 23-Sep-2008, 19:03:18
 Data file name: Proton02.fid
 Data reprocessed: Fri Jul 17 14:33:40 EDT 2009
 Chemist: lapointb
 unknown, Probe: HFC_5mm_8835

Solvent: cdcl3
 Ambient temperature

OBSERVE Proton, 499.811 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 8 scans

DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536



9d



Sample name:

Notebook: 0296881, Page: 0052

Data acquired: 21-Jul-2009, 11:57:33

Data file name: Fluorine01.fid

Chemist: lapointb

unknown, Probe: CHF

Solvent: cdcl3

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.133 sec

Width 73529.4 Hz

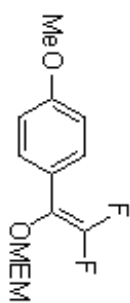
32 scans

DATA PROCESSING

Line broadening 0.9 Hz

Gauss apodization 0.462 sec

FT size 262144



-50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 ppm

1.00

1.03

Sample name:

Notebook: 0285510, Page: 0061-1

Data acquired: 23-Sep-2008, 19:04:09

Data file name: Carbon01.fid

Data reprocessed: Fri Jul 17 14:34:17 EDT 2009

Chemist: lapointb

unknown , Probe: HFC_5mm_8835

Solvent: cdcl3

Ambient temperature

OBSERVE Carbon, 125.678 MHz

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 30487.8 Hz

1000 scans

DECOUPLE H1, 499.814 MHz

Power 39 dB

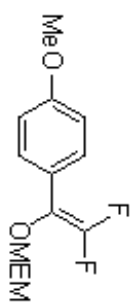
continuously on

WALTZ-16 modulated

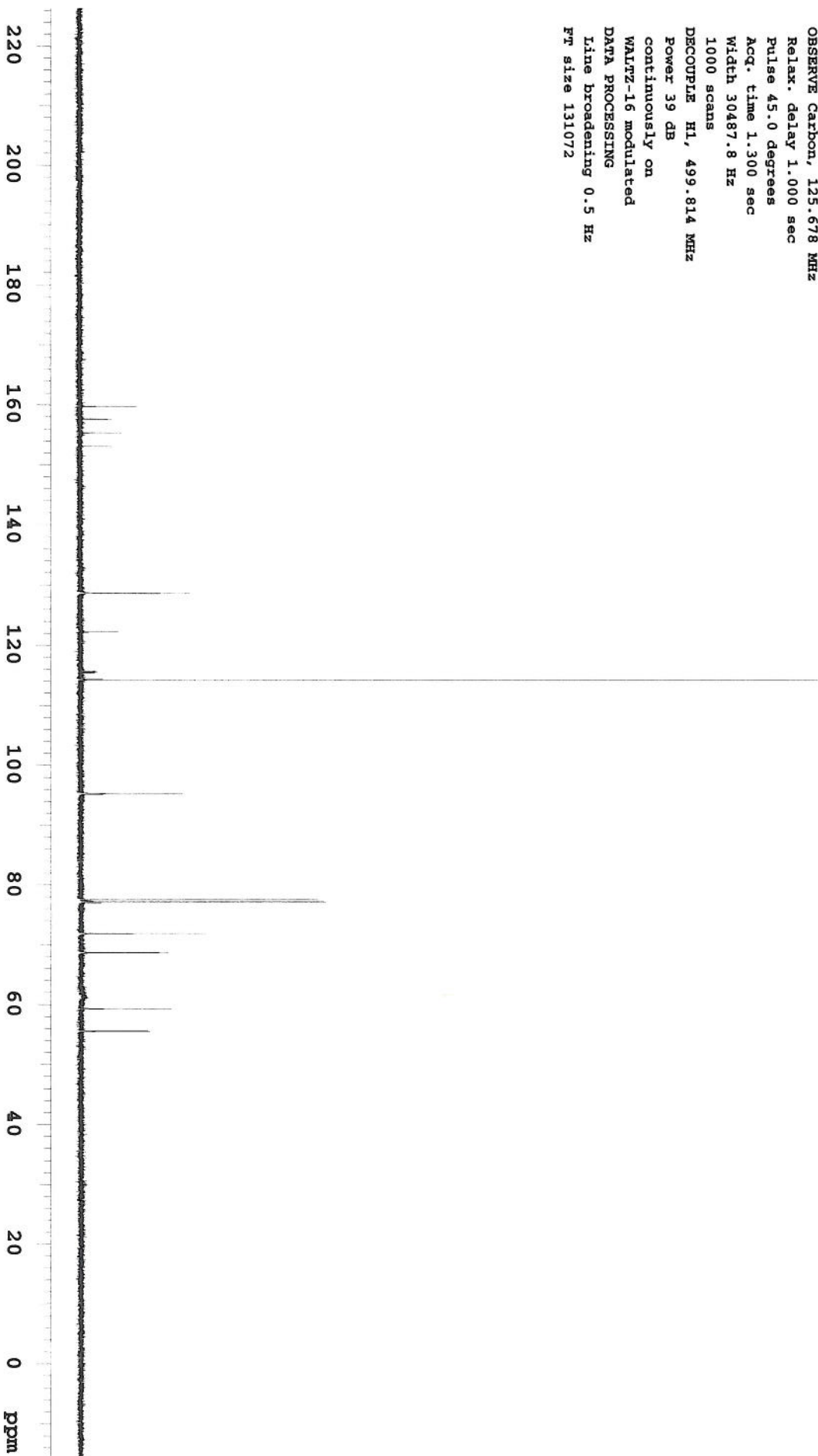
DATA PROCESSING

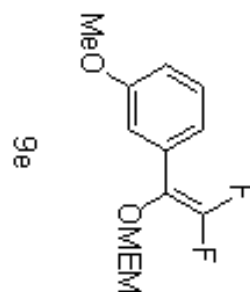
Line broadening 0.5 Hz

FT size 131072



9d



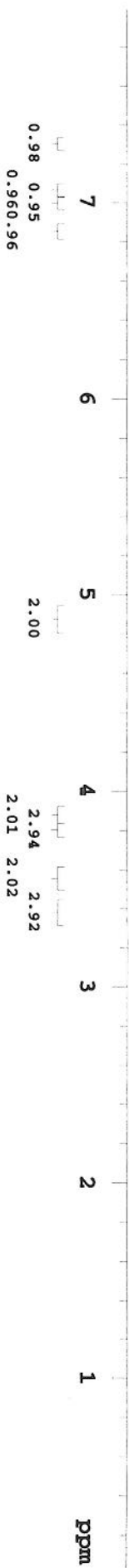


Sample name: 9e
Notebook: 0285510, Page: 0050-1
Data acquired: 12-Sep-2008, 15:16:28
Data file name: Proton01.fid
Data reprocessed: Fri Jul 17 14:39:52 EDT 2009
Chemist: lapointb
unknown, Probe: HFC_5mm_8835

Solvent: cdcl3
Ambient temperature

OBSERVE Proton, 499.811 MHz
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.000 sec
Width 8012.8 Hz

8 scans
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536



Sample name:

Notebook: 0296881, Page: 0053

Data acquired: 21-Jul-2009, 14:41:33

Data file name: Fluorine03.fid

Chemist: lapointb

unknown, Probe: CHF

Solvent: cdc13

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.13 sec

Width 73529.4 Hz

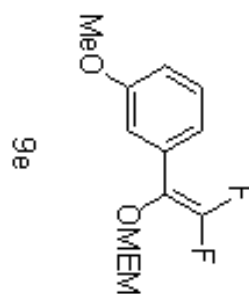
32 scans

DATA PROCESSING

Line broadening 2.0 Hz

Gauss apodization 0.462 sec

FT size 262144



-50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 ppm

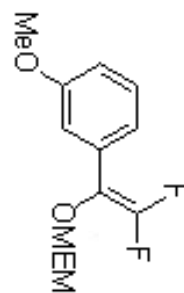
1.00

1.03

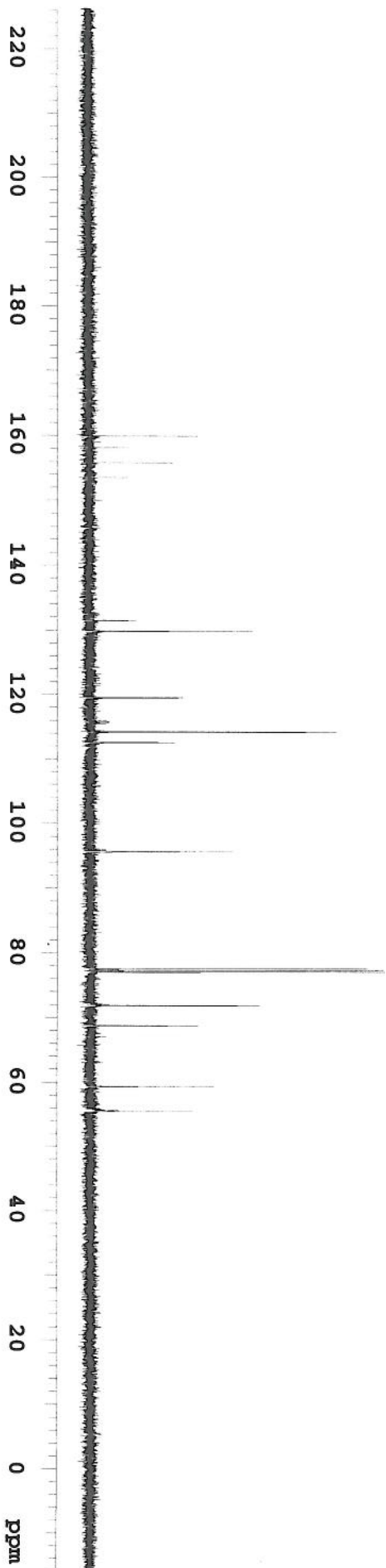
Sample name:
Notebook: 0285510, Page: 0050-1
Data acquired: 15-Sep-2008, 19:03:17
Data file name: Carbon02.fid
Data reprocessed: Fri Jul 17 14:38:06 EDT 2009
Chemist: lapointb
unknown, Probe: HFC_5mm_8835

Solvent: cdcl3
Ambient temperature

OBSERVE Carbon, 125.678 MHz
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 30487.8 Hz
1000 scans
DECOUPLE H1, 499.814 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 131072



9e

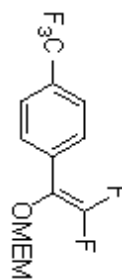


Sample name: 9f
 Notebook: 0285510, Page: 0078-6
 Data acquired: 16-Oct-2008, 19:03:25
 Data file name: Proton02.fid
 Data reprocessed: Fri Jul 17 14:42:31 EDT 2009
 Chemist: lapointb
 unknown , Probe: HFC_5mm_8835

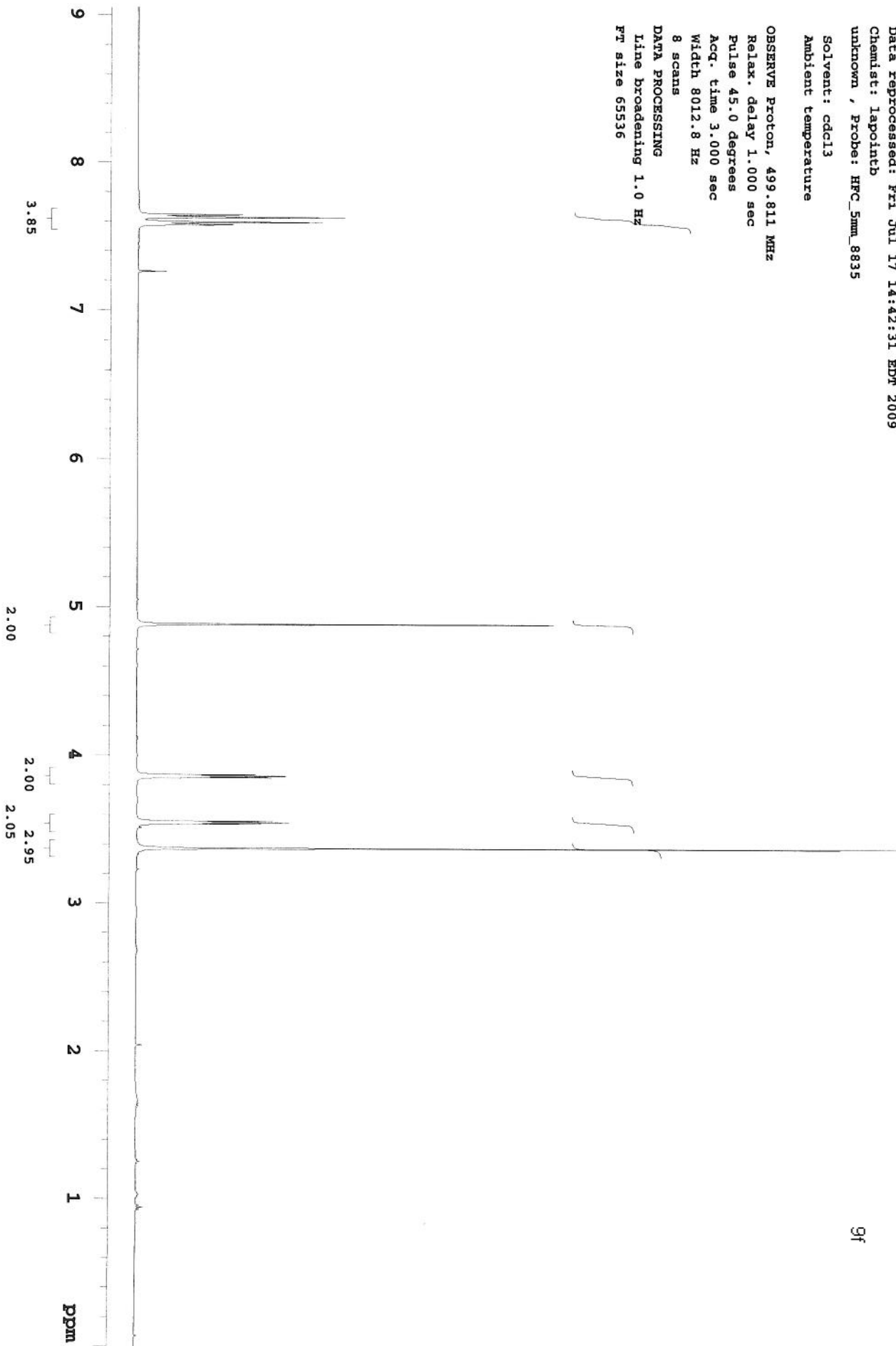
Solvent: cdcl3
 Ambient temperature

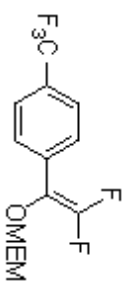
OBSERVE Proton, 499.811 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 8 scans

DATA PROCESSING
 Line broadening 1.0 Hz
 FT size 65536



9f





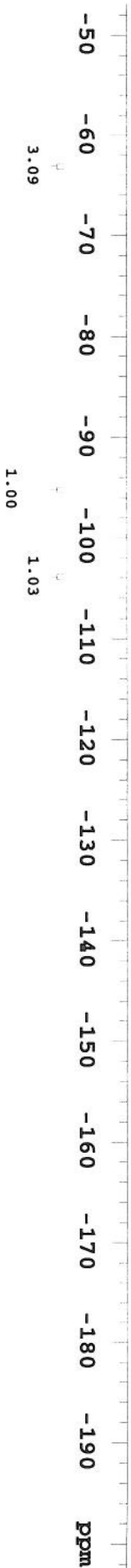
9f

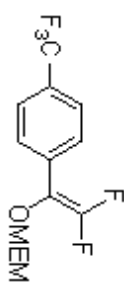
Sample name:
Notebook: 0296881, Page: 0031
Data acquired: 26-Jun-2009, 12:26:50
Data file name: fluorine01.fid
Data reprocessed: Fri Jul 17 14:45:11 EDT 2009
Chemist: lapointb
unknown, Probe: HFC_5mm_8835

Solvent: cdcl3
Ambient temperature

OBSERVE Fluorine, 470.292 MHz
Relax. delay 2.000 sec
Pulse 30.0 degrees
Acq. time 1.133 sec
Width 73529.4 Hz
32 scans

DATA PROCESSING
Line broadening 0.9 Hz
Gauss apodization 0.462 sec
FT size 262144



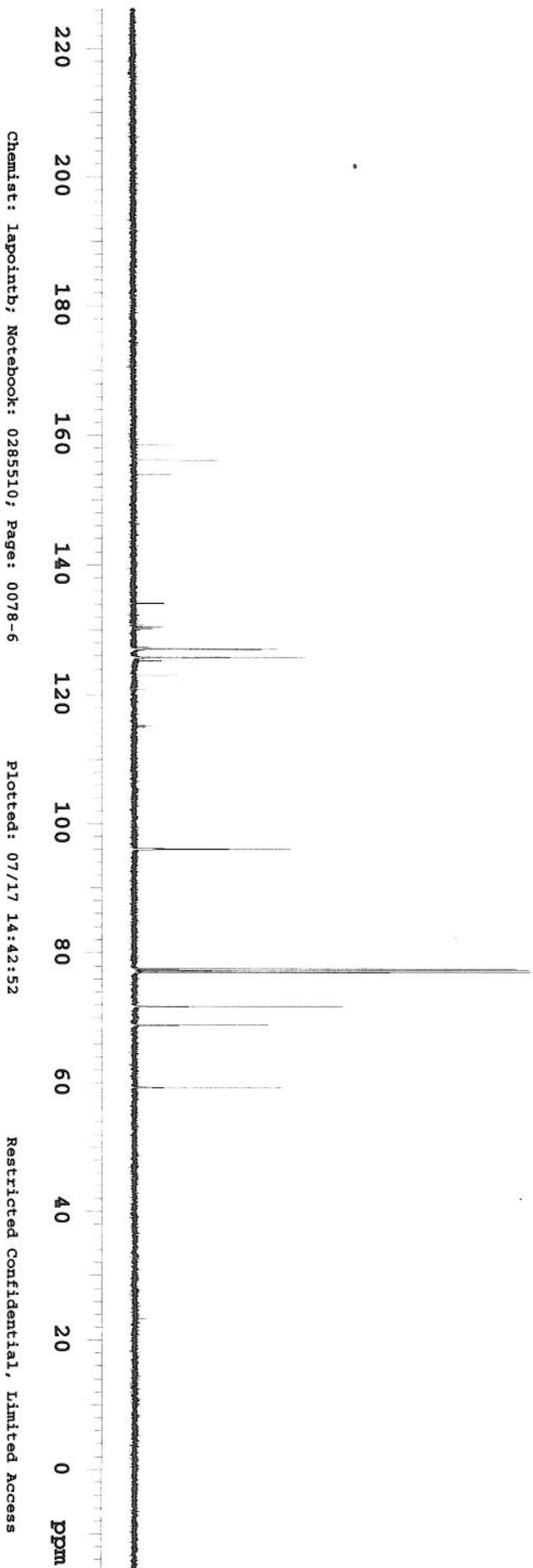


9f

Sample name:
Notebook: 0285510, Page: 0078-6
Data acquired: 16-Oct-2008, 19:04:17
Data file name: Carbon01.fid
Data reprocessed: Fri Jul 17 14:42:52 EDT 2009
Chemist: lapointb
unknown, Probe: HFC_5mm_8835

Solvent: cdcl3
Ambient temperature

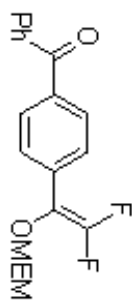
OBSERVE Carbon, 125.678 MHz
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 30487.8 Hz
2000 scans
DECOUPLE H1, 499.814 MHz
Power 39 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 131072



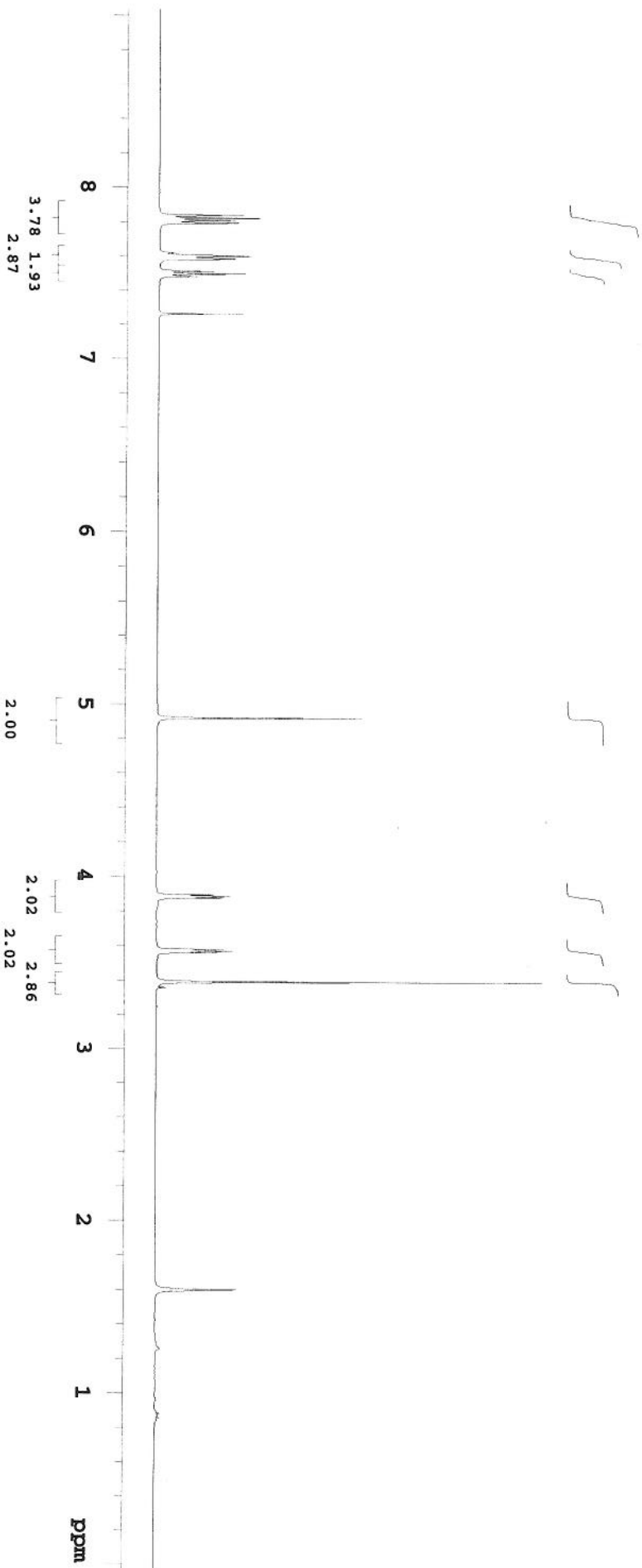
Sample name: 45.1 9g
 Notebook: 0296881, Page: 0045
 Data acquired: 14-Jul-2009, 16:05:44
 Data file name: Proton03.fid
 Data reprocessed: Thu Jul 23 17:59:05 EDT 2009
 Chemist: lapointb
 unknown, Probe: CHF

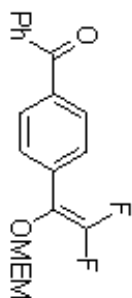
Solvent: cdcl3
 Ambient temperature

OBSERVE Proton, 499.811 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 16 scans
 DATA PROCESSING
 Line broadening 1.0 Hz
 FT size 65536



9g



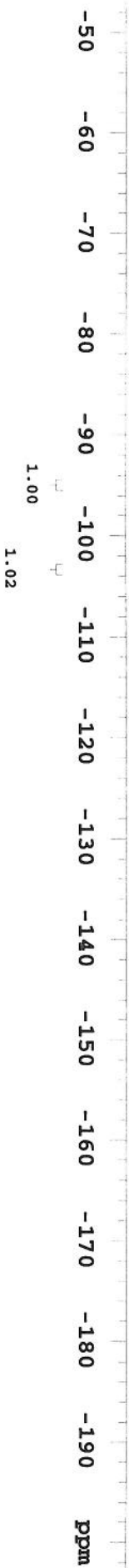


9g

Sample name: 45.1
Notebook: 0296881, Page: 0045
Data acquired: 14-Jul-2009, 16:07:28
Data file name: Fluorine02.fid
Data reprocessed: Thu Jul 23 17:56:12 EDT 2009
Chemist: lapointb
unknown , Probe: CHF

Solvent: cdcl3
Ambient temperature

OBSERVE Fluorine, 470.292 MHz
Relax. delay 2.000 sec
Pulse 30.0 degrees
Acq. time 1.133 sec
Width 73529.4 Hz
32 scans
DATA PROCESSING
Line broadening 0.9 Hz
Gauss apodization 0.462 sec
FT size 262144



Sample name:

Notebook: 0285510, Page: 0052-3

Data acquired: 16-Sep-2008, 20:22:50

Data file name: Carbon01.fid

Data reprocessed: Thu Jul 23 19:02:15 EDT 2009

Chemist: lapointb

unknown , Probe: HFC_5mm_835

Solvent: cdcl3

Ambient temperature

OBSERVE Carbon, 125.678 MHz

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 30487.8 Hz

1000 scans

DECOUPLE H1, 499.814 MHz

Power 39 dB

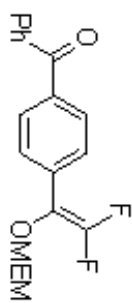
continuously on

WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FT size 131072



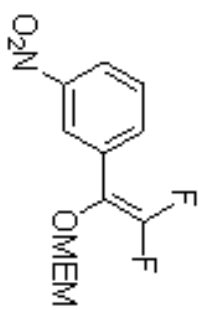
9g

220 200 180 160 140 120 100 80 60 40 20 0 ppm

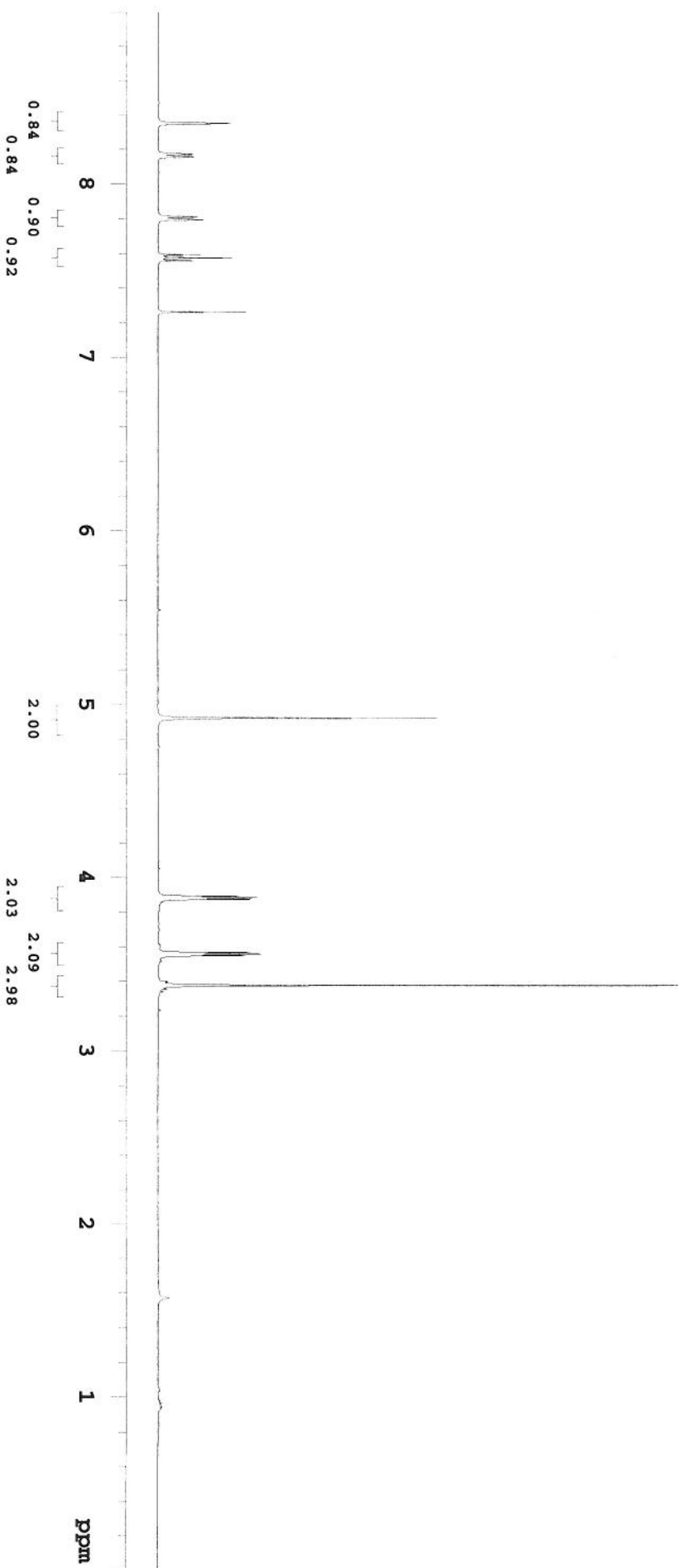
Sample name: 9h
Notebook: 0296881, Page: 0058
Data acquired: 23-Jul-2009, 14:54:06
Data file name: Proton01.fid
Chemist: lapointb
unknown, Probe: CHF

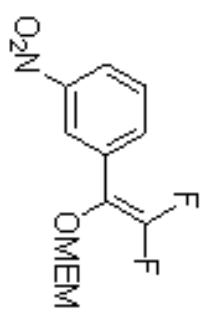
Solvent: cdcl3
Ambient temperature

OBSERVE Proton, 499.811 MHz
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.000 sec
Width 8012.8 Hz
16 scans
DATA PROCESSING
Line broadening 1.0 Hz
FT size 65536



9h



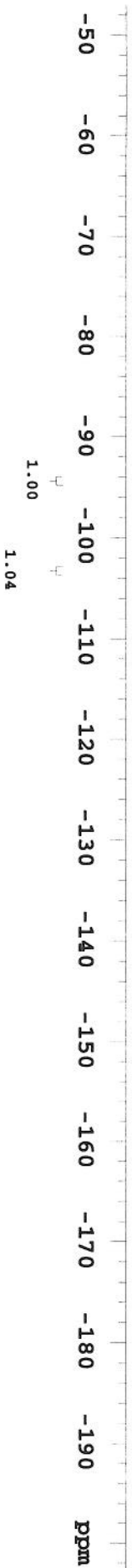


Sample name:
Notebook: 0296881, Page: 0058
Data acquired: 23-Jul-2009, 17:13:40
Data file name: Fluorine02.fid
Chemist: lapointb
unknown , Probe: CHF

Solvent: cdcl3
Ambient temperature

OBSERVE Fluorine, 470.292 MHz
Relax. delay 2.000 sec
Pulse 30.0 degrees
Acq. time 1.133 sec
Width 73529.4 Hz
32 scans

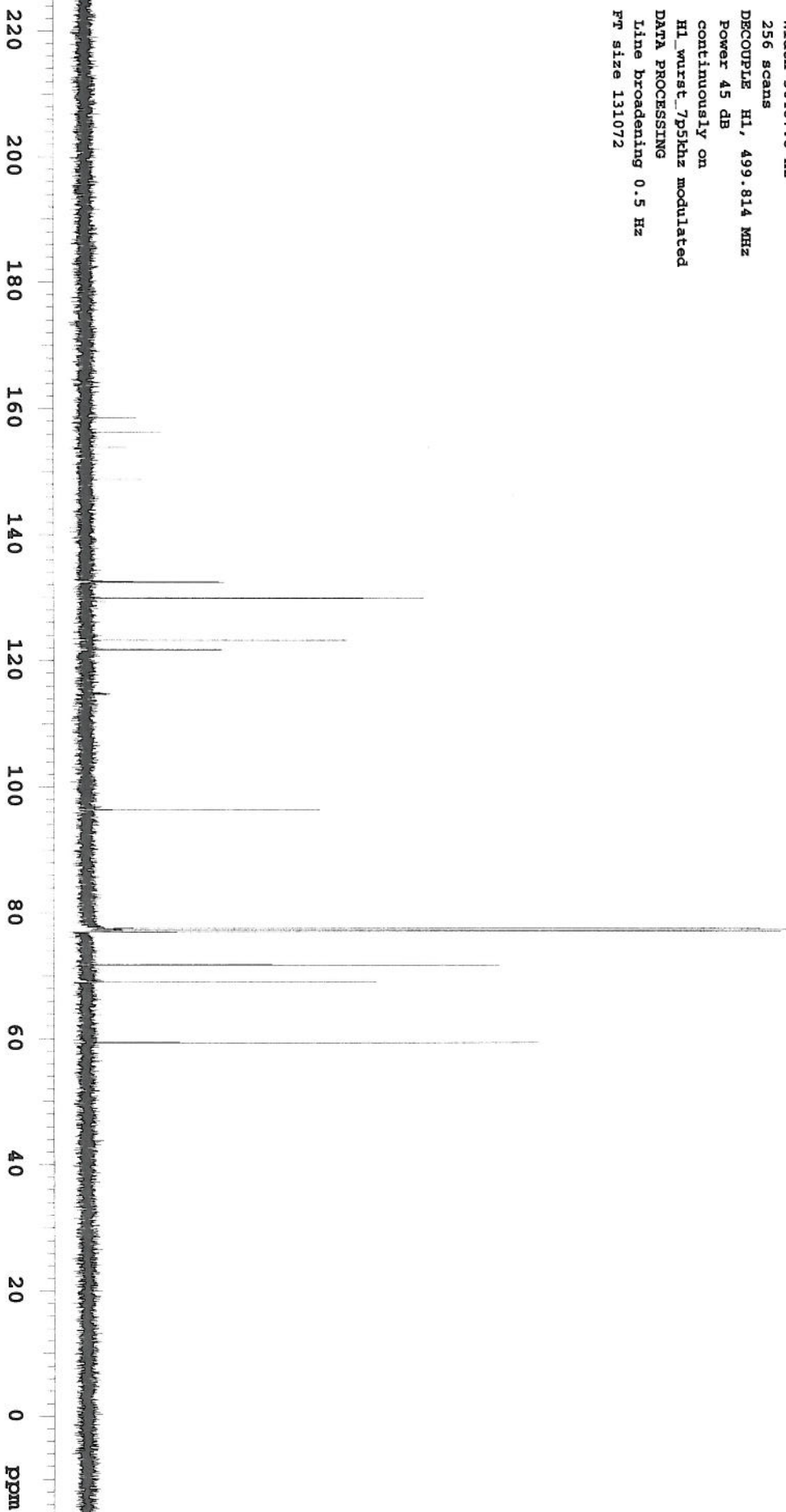
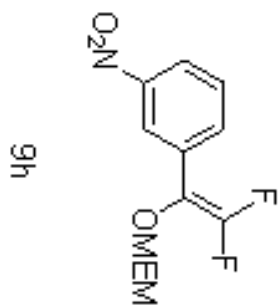
DATA PROCESSING
Line broadening 2.0 Hz
Gauss apodization 0.462 sec
FT size 262144



Sample name:
 Notebook: 0296881, Page: 0058
 Data acquired: 23-Jul-2009, 17:03:27
 Data file name: Carbon02.fid
 Chemist: lapointb
 unknown , Probe: CHF

Solvent: cdcl3
 Ambient temperature

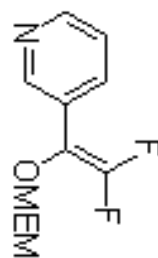
OBSERVE Carbon, 125.678 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 1.300 sec
 Width 30487.8 Hz
 256 scans
 DECOUPLE H1, 499.814 MHz
 Power 45 dB
 continuously on
 H1_wurst_7p5khz modulated
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 131072



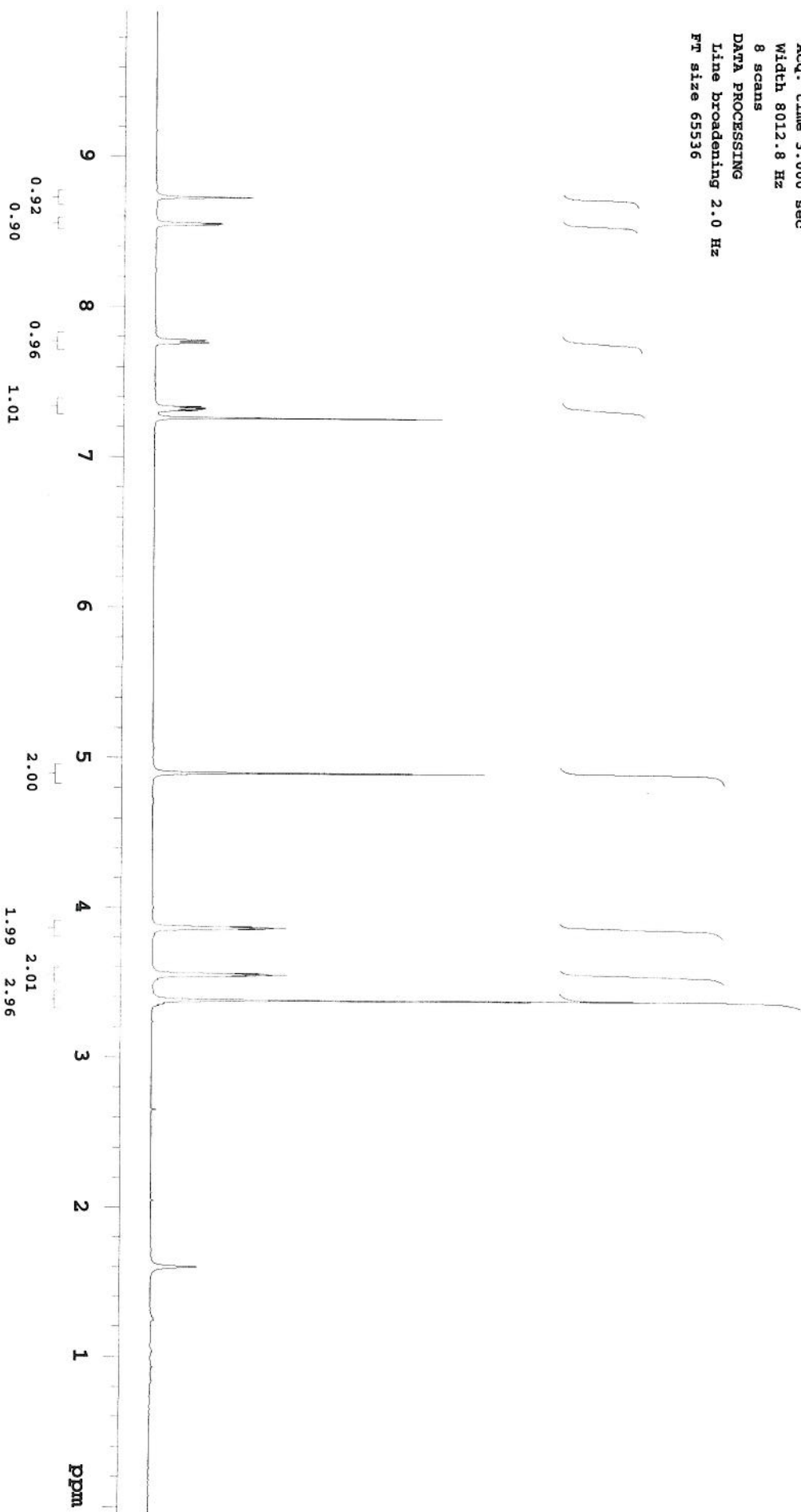
Sample name: 91
 Notebook: 0285510, Page: 0092-3
 Data acquired: 03-Nov-2008, 15:15:42
 Data file name: Proton01.fid
 Data reprocessed: Mon Jul 20 17:53:53 EDT 2009
 Chemist: lapointb
 unknown, Probe: HFC_5mm_8835

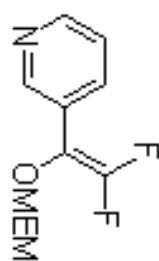
Solvent: cdcl3
 Ambient temperature

OBSERVE Proton, 499.811 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 8 scans
 DATA PROCESSING
 Line broadening 2.0 Hz
 FT size 65536



91





91

Sample name:

Notebook: 0296881, Page: 0041

Data acquired: 20-Jul-2009, 11:24:00

Data file name: Fluorine03.fid

Chemist: lapointb

unknown, Probe: CHF

Solvent: cdcl3

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.133 sec

Width 73529.4 Hz

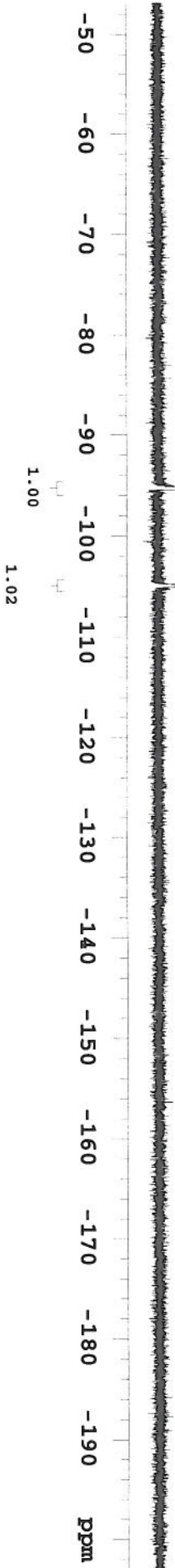
32 scans

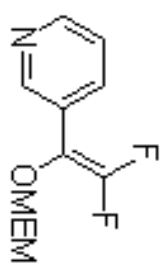
DATA PROCESSING

Line broadening 0.9 Hz

Gauss apodization 0.462 sec

FT size 262144



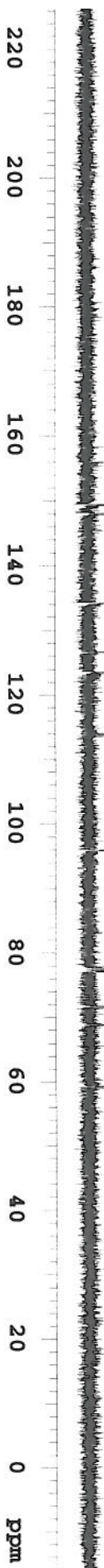


9i

Sample name:
 Notebook: 0285510, Page: 0092-4
 Data acquired: 03-Nov-2008, 16:22:42
 Data file name: Carbon01.fid
 Data reprocessed: Mon Jul 20 17:55:31 EDT 2009
 Chemist: lapointb
 unknown , Probe: HFC_5mm_8835

Solvent: cdcl3
 Ambient temperature

OBSERVE Carbon, 125.678 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 1.300 sec
 Width 30487.8 Hz
 256 scans
 DECOUPLE H1, 499.814 MHz
 Power 40 dB
 continuously on
 h1_WURST40 modulated
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 131072

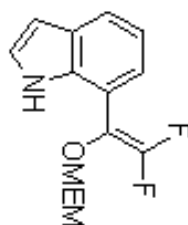


Sample name: 9j
 Notebook: 0285510, Page: 0081-1
 Data acquired: 20-Oct-2008, 19:03:42
 Data file name: Proton02.fid
 Data reprocessed: Fri Jul 17 14:36:28 EDT 2009
 Chemist: lapointb
 unknown, Probe: HFC_5mm_8835

Solvent: cdcl3
 Ambient temperature

OBSERVE Proton, 499.811 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 8 scans

DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536



9j



Sample name:

Notebook: 0296881, Page: 0042

Data acquired: 10-Jul-2009, 17:03:28

Data file name: Fluorine01.fid

Data reprocessed: Mon Jul 20 17:48:14 EDT 2009

Chemist: lapointb

unknown, Probe: CHF

Solvent: cdcl3

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.133 sec

Width 73529.4 Hz

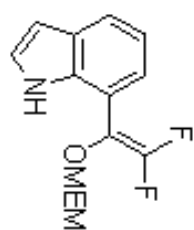
32 scans

DATA PROCESSING

Line broadening 0.9 Hz

Gauss apodization 0.462 sec

FT size 262144



9j

-50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 ppm

1.00

1.04

Sample name:

Notebook: 0285510, Page: 0081-1

Data acquired: 20-Oct-2008, 19:04:37

Data file name: Carbon01.fid

Data reprocessed: Fri Jul 17 14:37:05 EDT 2009

Chemist: lapointb

unknown, Probe: HFC_5mm_8835

Solvent: cdcl3

Ambient temperature

OBSERVE Carbon, 125.678 MHz

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 30487.8 Hz

1000 scans

DECOUPLE H1, 499.814 MHz

Power 39 dB

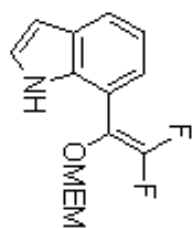
continuously on

WALTZ-16 modulated

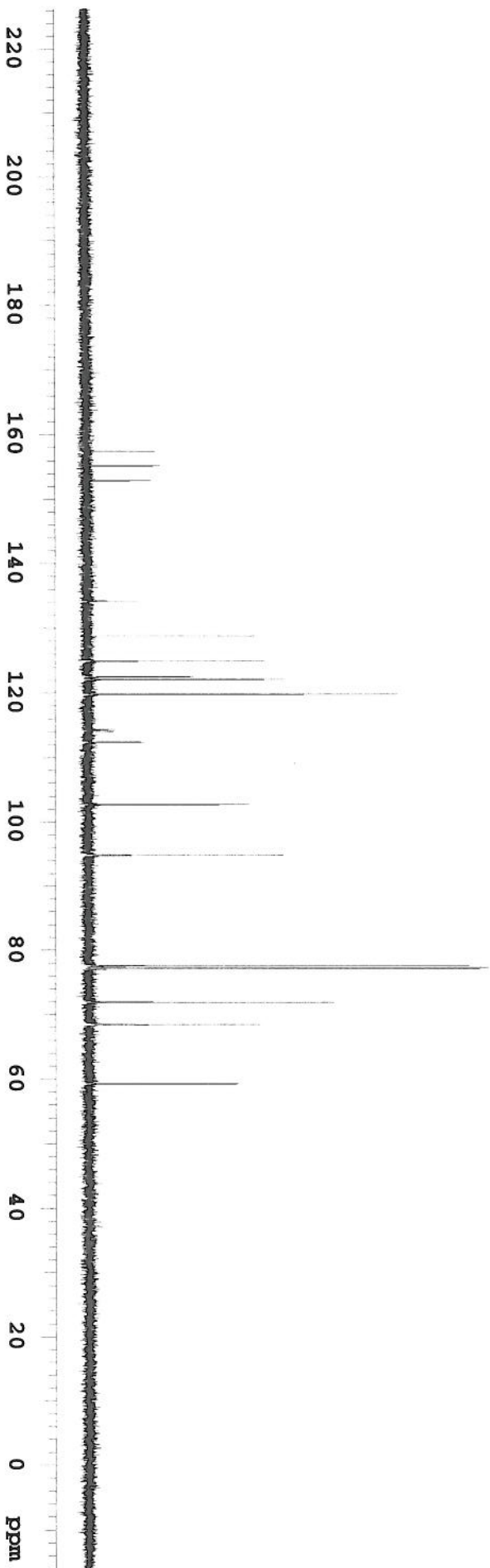
DATA PROCESSING

Line broadening 0.5 Hz

FT size 131072



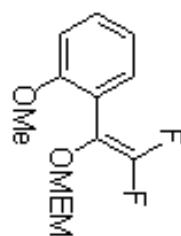
9j



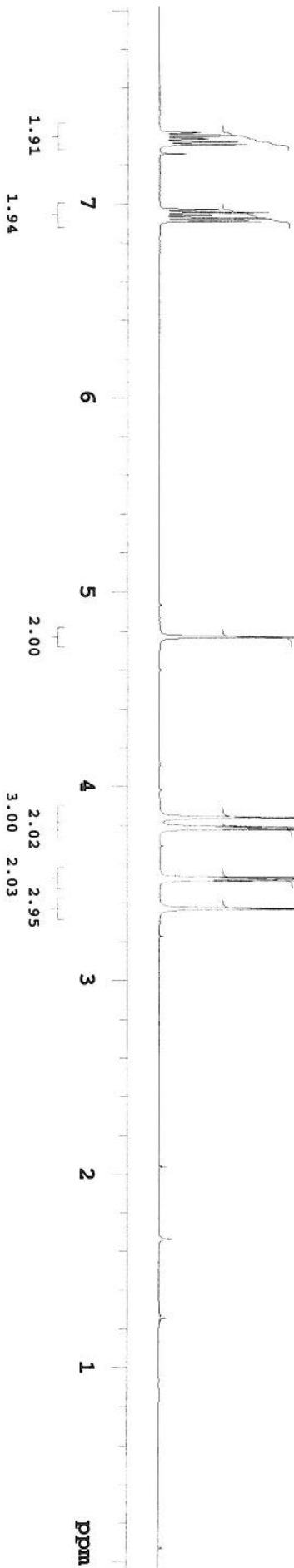
Sample name: proton and carbon 91
Notebook: 0285510, Page: 0051-1
Data acquired: 15-Sep-2008, 14:27:17
Data file name: Proton02.fid
Data reprocessed: Fri Jul 17 14:49:20 EDT 2009
Chemist: lapointb
unknown, Probe: HFC_5mm_8835

Solvent: cdcl3
Ambient temperature

OBSERVE Proton, 499.811 MHz
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.000 sec
Width 8012.8 Hz
8 scans
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536



91



Sample name:

Notebook: 0296881, Page: 0025

Data acquired: 26-Jun-2009, 10:46:32

Data file name: Fluorine01.fid

Data reprocessed: Fri Jul 17 14:50:28 EDT 2009

Chemist: lapointb

unknown , Probe: HFC_5mm_8335

Solvent: cdcl3

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.133 sec

Width 73529.4 Hz

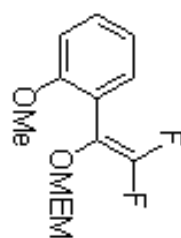
32 scans

DATA PROCESSING

Line broadening 0.9 Hz

Gauss apodization 0.462 sec

FT size 262144



91

-50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 ppm

1.00

1.01

Sample name:

Notebook: 0285510, Page: 0051-1

Data acquired: 15-Sep-2008, 19:44:10

Data file name: Carbon02.fid

Data reprocessed: Fri Jul 17 14:49:31 EDT 2009

Chemist: lapointb

unknown, Probe: HFC_5mm_8835

Solvent: cdcl3

Ambient temperature

OBSERVE Carbon, 125.678 MHz

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 30487.8 Hz

1000 scans

DECOUPLE H1, 499.814 MHz

Power 39 dB

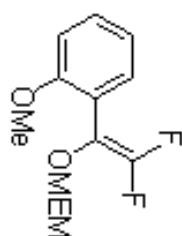
continuously on

WALTZ-16 modulated

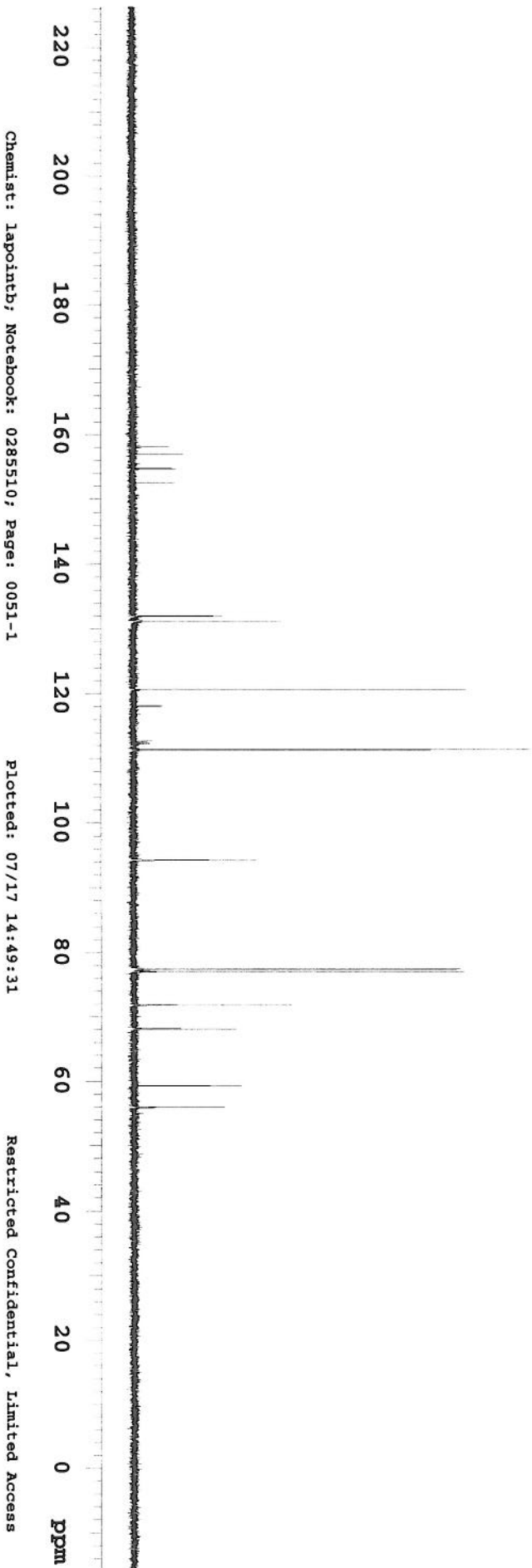
DATA PROCESSING

Line broadening 0.5 Hz

FT size 131072

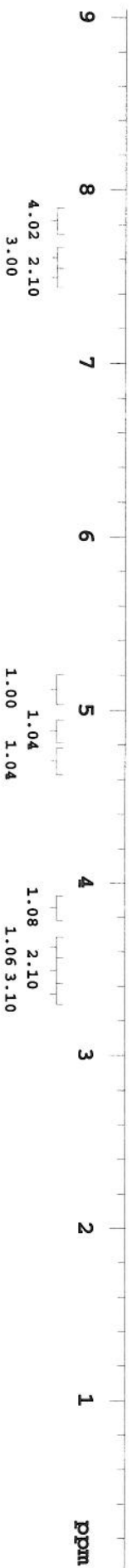
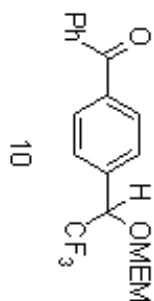


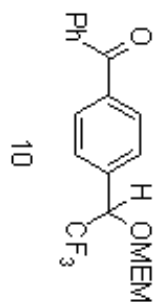
91



Sample name: 10
 Notebook: 0296881, Page: 0055
 Data acquired: 29-Jul-2009, 07:27:54
 Data file name: Proton05.fid
 Data reprocessed: Mon Aug 17 09:53:22 EDT 2009
 Chemist: lapointb
 unknown, Probe: CHF
 Solvent: cdcl3
 Ambient temperature

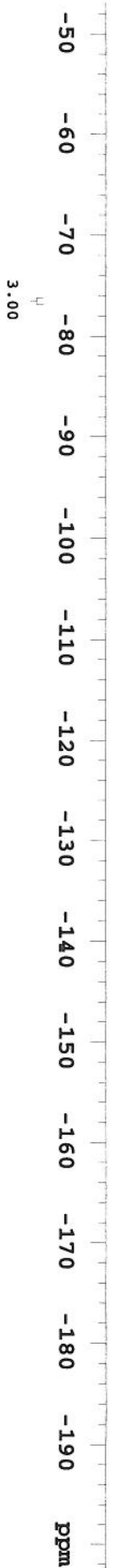
OBSERVE Proton, 499.811 MHz
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 8012.8 Hz
 16 scans
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536





Sample name:
Notebook: 0296881, Page: 0055
Data acquired: 28-Jul-2009, 17:09:03
Data file name: Fluorine04.fid
Data reprocessed: Mon Aug 17 09:54:08 EDT 2009
Chemist: lapointb
unknown, Probe: CHF
Solvent: cdcl3
Ambient temperature

OBSERVE Fluorine, 470.292 MHz
Relax. delay 2.000 sec
Pulse 30.0 degrees
Acq. time 1.133 sec
Width 73529.4 Hz
32 scans
DATA PROCESSING
Line broadening 0.9 Hz
Gauss apodization 0.462 sec
FT size 262144



Sample name:

Notebook: 0296881, Page: 0055

Data acquired: 29-Jul-2009, 07:29:18

Data file name: Carbon04.fid

Chemist: lapointb

unknown, Probe: CHF

Solvent: cdcl3

Ambient temperature

OBSERVE Carbon, 125.678 MHz

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.300 sec

Width 30487.8 Hz

256 scans

DECOUPLE H1, 499.814 MHz

Power 45 dB

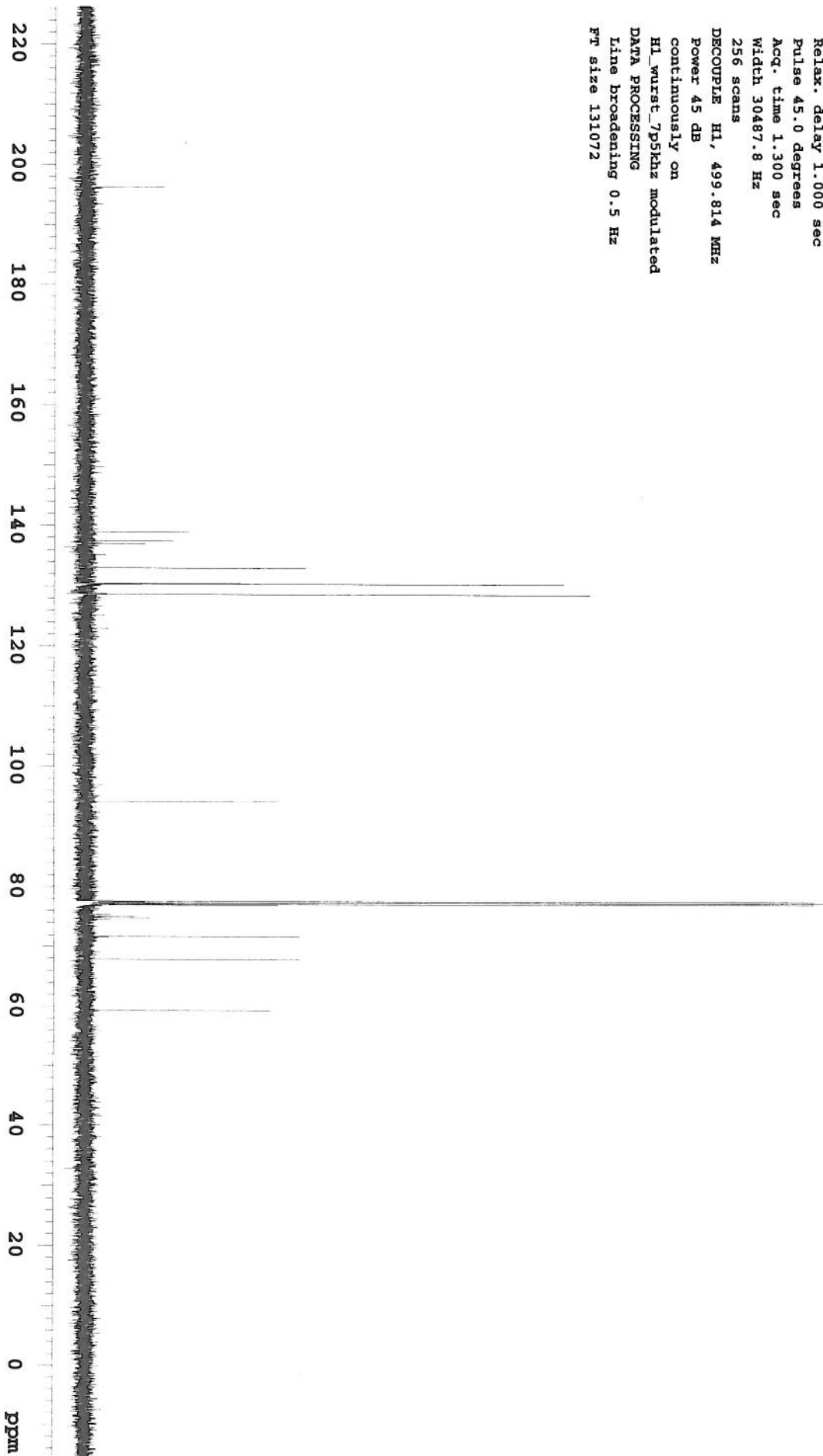
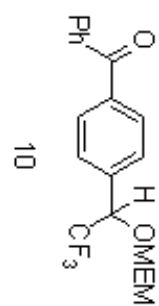
continuously on

H1_wurst_7p5khz modulated

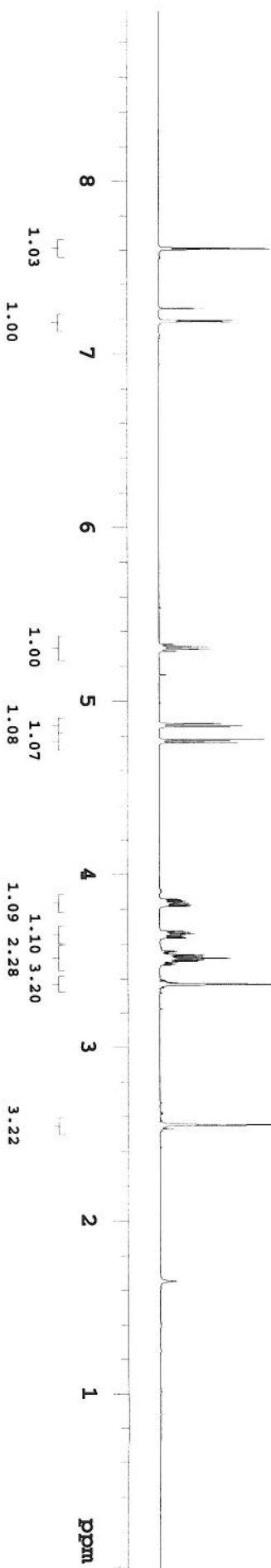
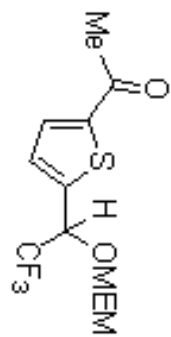
DATA PROCESSING

Line broadening 0.5 Hz

FT size 131072



Sample name: 11
Notebook: 0296881, Page: 0059
Data acquired: 29-Jul-2009, 09:13:22
Data file name: Proton02.fid
Chemist: lapointb
unknown, Probe: CHF
Solvent: cdcl3
Ambient temperature
OBSERVE Proton, 499.811 MHz
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.000 sec
Width 8012.8 Hz
16 scans
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536



Sample name:

Notebook: 0296881, Page: 0059

Data acquired: 29-Jul-2009, 09:15:11

Data file name: Fluorine02.fid

Chemist: lapointb

unknown , Probe: CHF

Solvent: cdcl3

Ambient temperature

OBSERVE Fluorine, 470.292 MHz

Relax. delay 2.000 sec

Pulse 30.0 degrees

Acq. time 1.133 sec

Width 73529.4 Hz

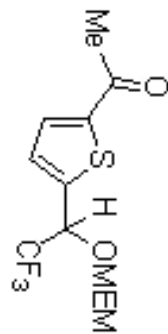
32 scans

DATA PROCESSING

Line broadening 0.9 Hz

Gauss apodization 0.462 sec

FT size 262144



11



Sample name:
Notebook: 0296881, Page: 0059
Data acquired: 29-Jul-2009, 09:23:10
Data file name: Carbon02.fid
Chemist: lapointb
unknown, Probe: CHF

Solvent: cdcl3
Ambient temperature

OBSERVE Carbon, 125.678 MHz
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.300 sec
Width 30487.8 Hz
256 scans
DECOUPLE H1, 499.814 MHz
Power 45 dB
continuously on
H1_wurst_7p5khz modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 131072

