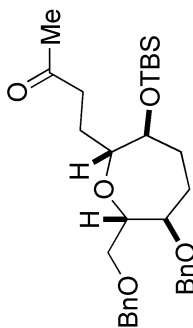


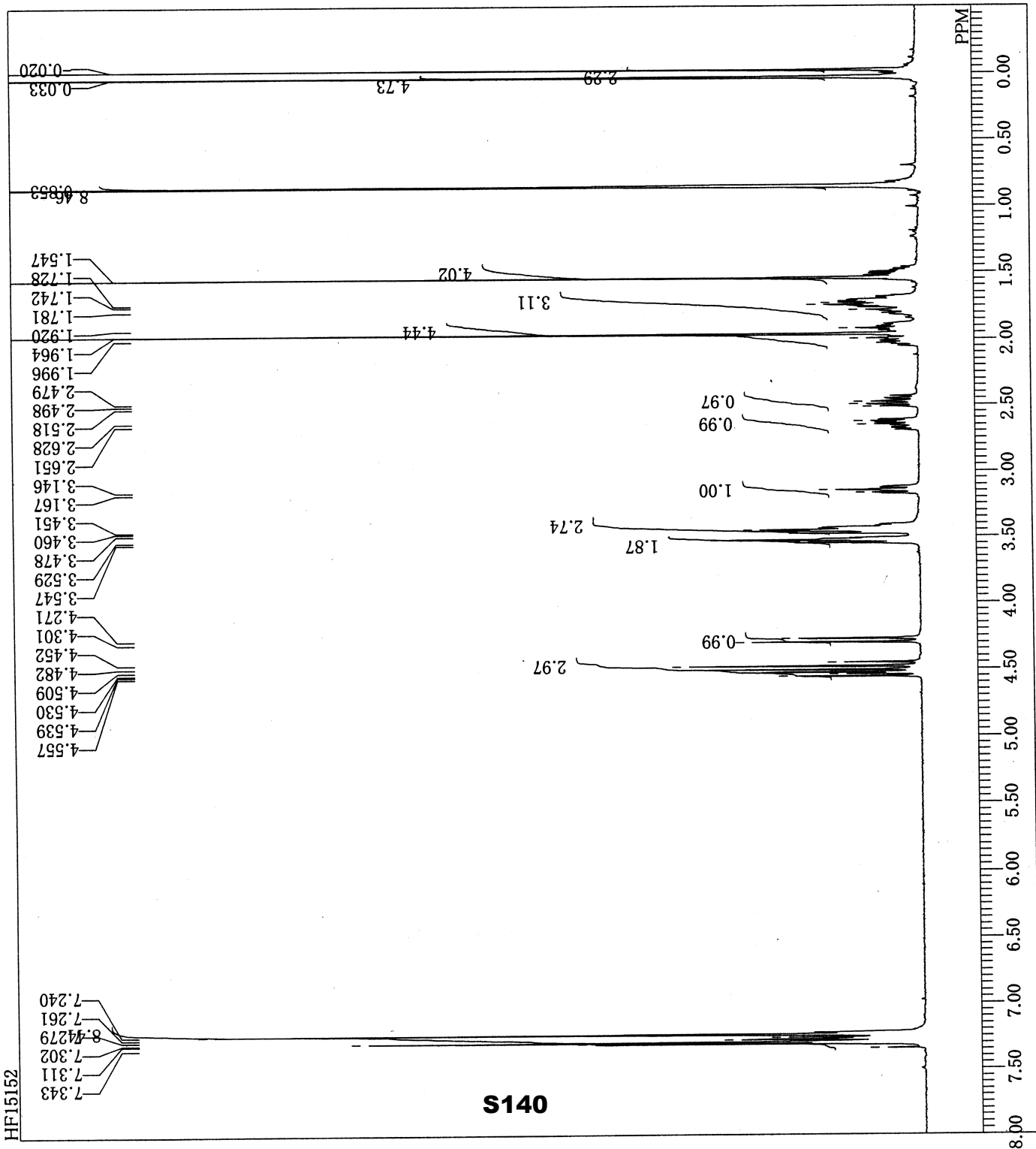
C:\Users\ffuwa\HF15152.1
 HF15152
 01-10-2004 12:09:49
 1H
 single.pulse.ex2
 399.78 MHz
 4.19 KHz
 7.29 Hz
 8192
 7503.00 Hz
 16
 1.0918 sec
 30.0000 sec
 5.85 usec
 1H
 22.6 c
 CDCL3
 7.24 ppm
 0.12 Hz
 42

DFILE
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFRQ
 OBSET
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN



58

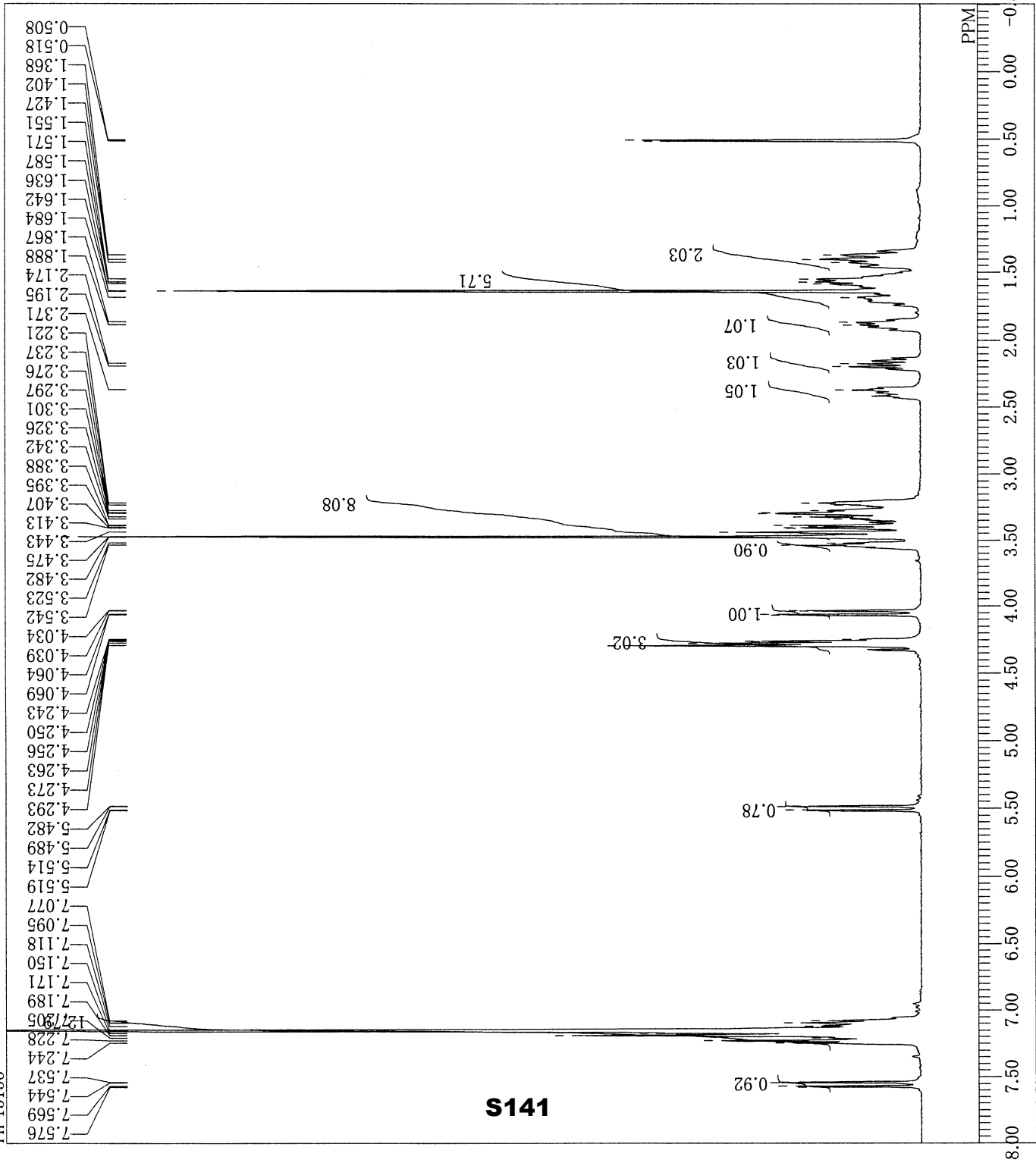
(400 MHz, CDCl₃)



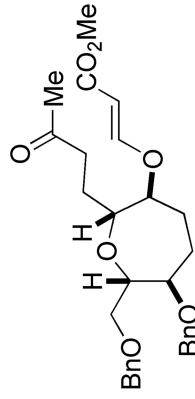
HF15156

DFILE
COMINT
DATIM
OBNUC
EXMOD
OBFRQ
OBSET
OBFIN
POINT
FREQU
SCANS
ACQTM
PD
PW1
IRNUC
CTEMP
SLVNT
EXREF
BF
RGAIN

C:\Users\fuwa\HF15156.1
HF15156
02-10-2004 15:01:28
1H
single_pulse.ex2
399.78 MHz
4.19 KHz
7.29 Hz
8192
7503.00 Hz
16
1.0918 sec
30.0000 sec
5.85 usec
1H
22.7 c
C6D6
7.15 ppm
0.12 Hz
40



S141



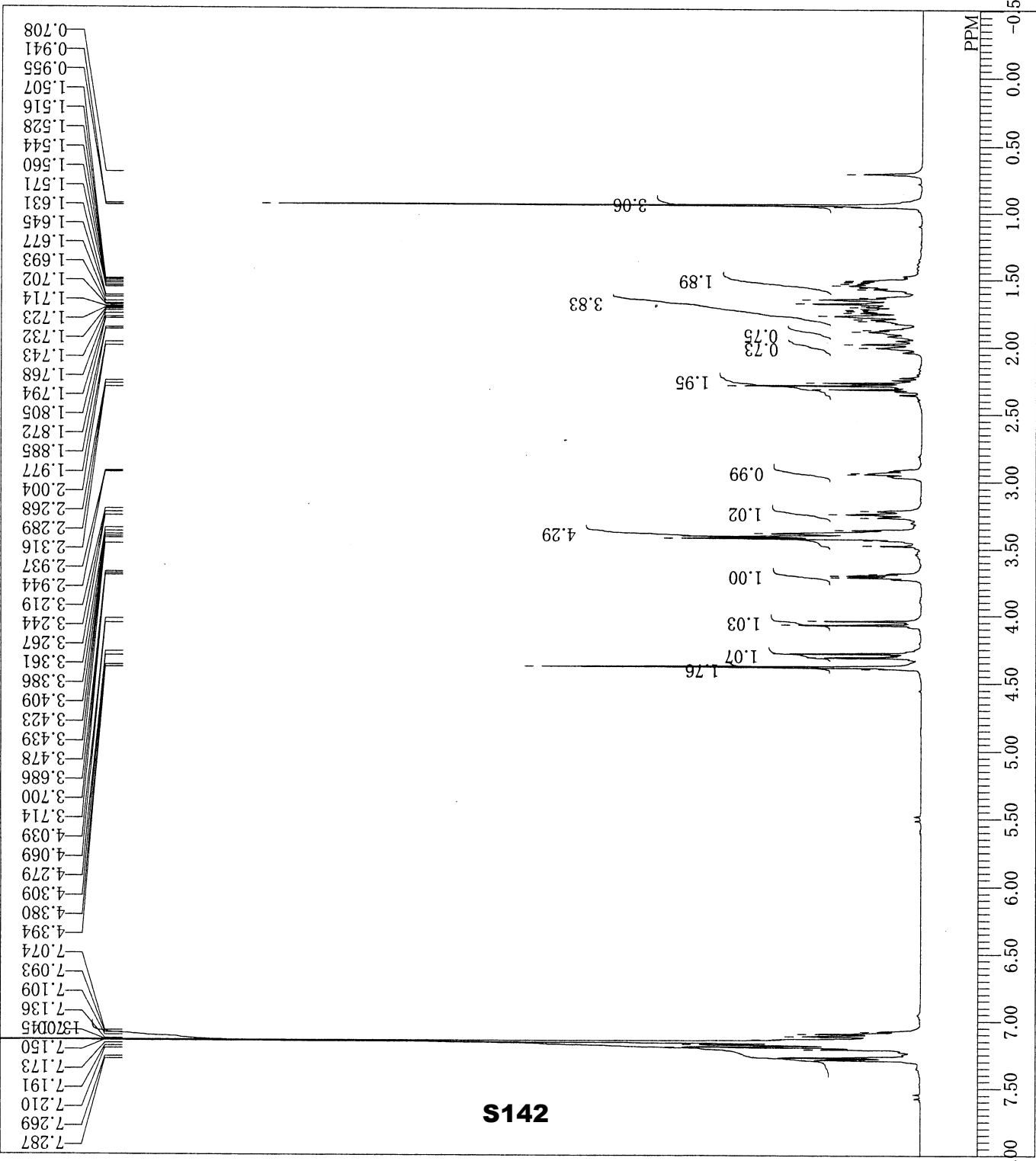
59

(400 MHz, C₆D₆)

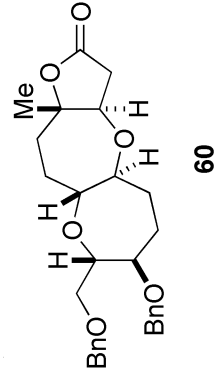
HF15157a

DFILE
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFREQ
 OBSET
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN

C:\Users\Yfuwa\HF15157a.1
 HF15157a
 02-10-2004 18:16:50
 1H
 single.pulse.ex2
 399.78 MHz
 4.19 KHz
 7.29 Hz
 8192
 7503.00 Hz
 16
 1.0918 sec
 30.0000 sec
 5.85 usec
 1H
 22.6 c
 C6D6
 7.15 ppm
 0.12 Hz
 36



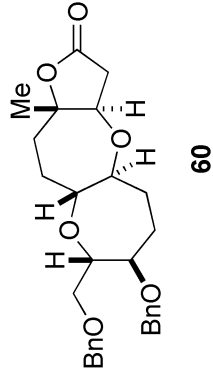
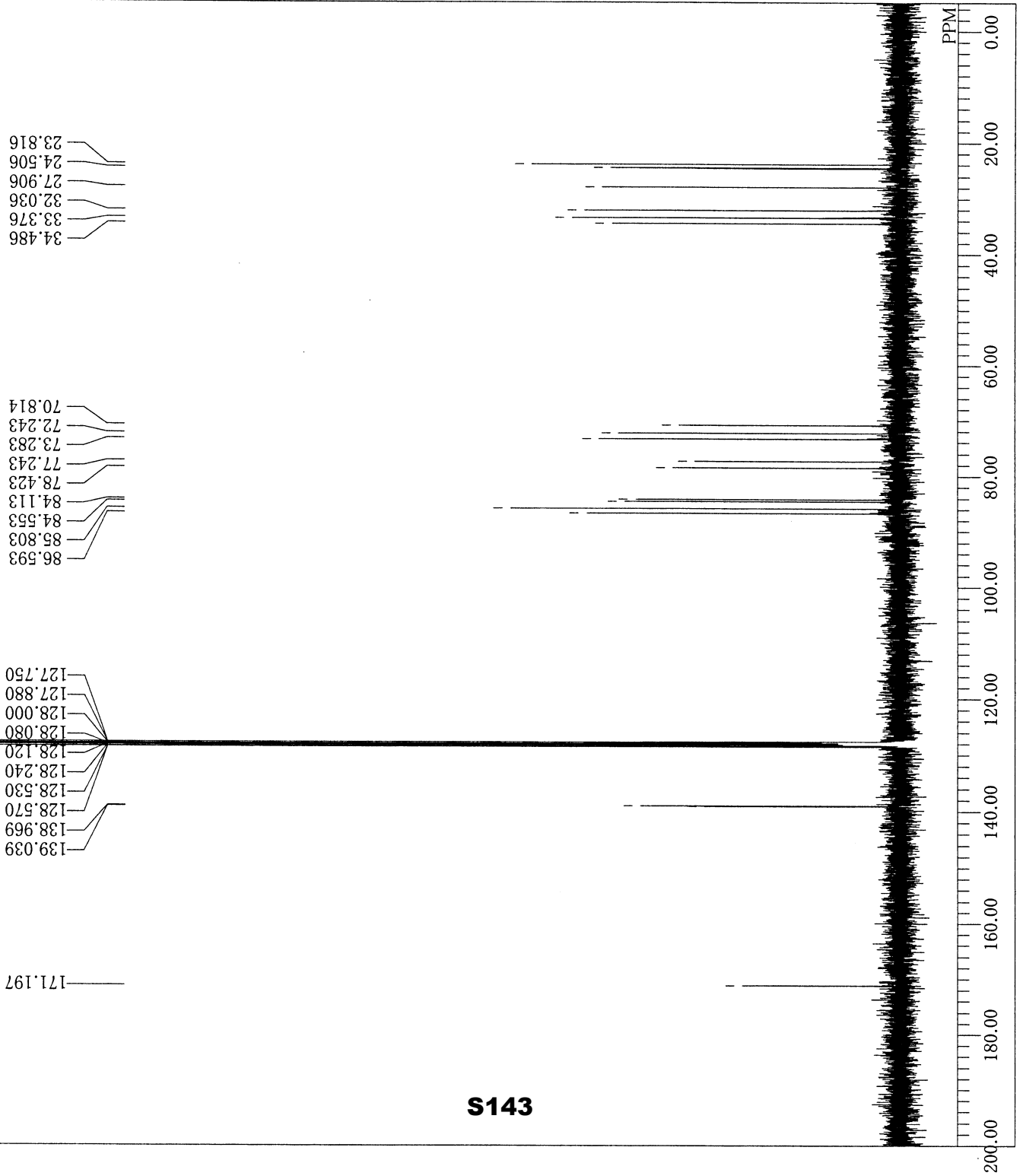
S142



(400 MHz, C₆D₆)

DFILE
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFRQ
 OBSET
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PWI
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN

C:\Users\fuwa\HF15157a_bcm.1
 HF15157a
 02-10-2004 19:29:57
 13C
 single_pulse_dec
 100.53 MHz
 5.35 KHz
 5.86 Hz
 32768
 32938.08 Hz
 256
 0.9948 sec
 1.5000 sec
 3.13 usec
 1H
 23.3 c
 C6D6
 128.00 ppm
 0.12 Hz
 60



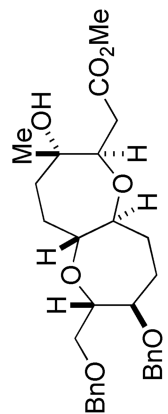
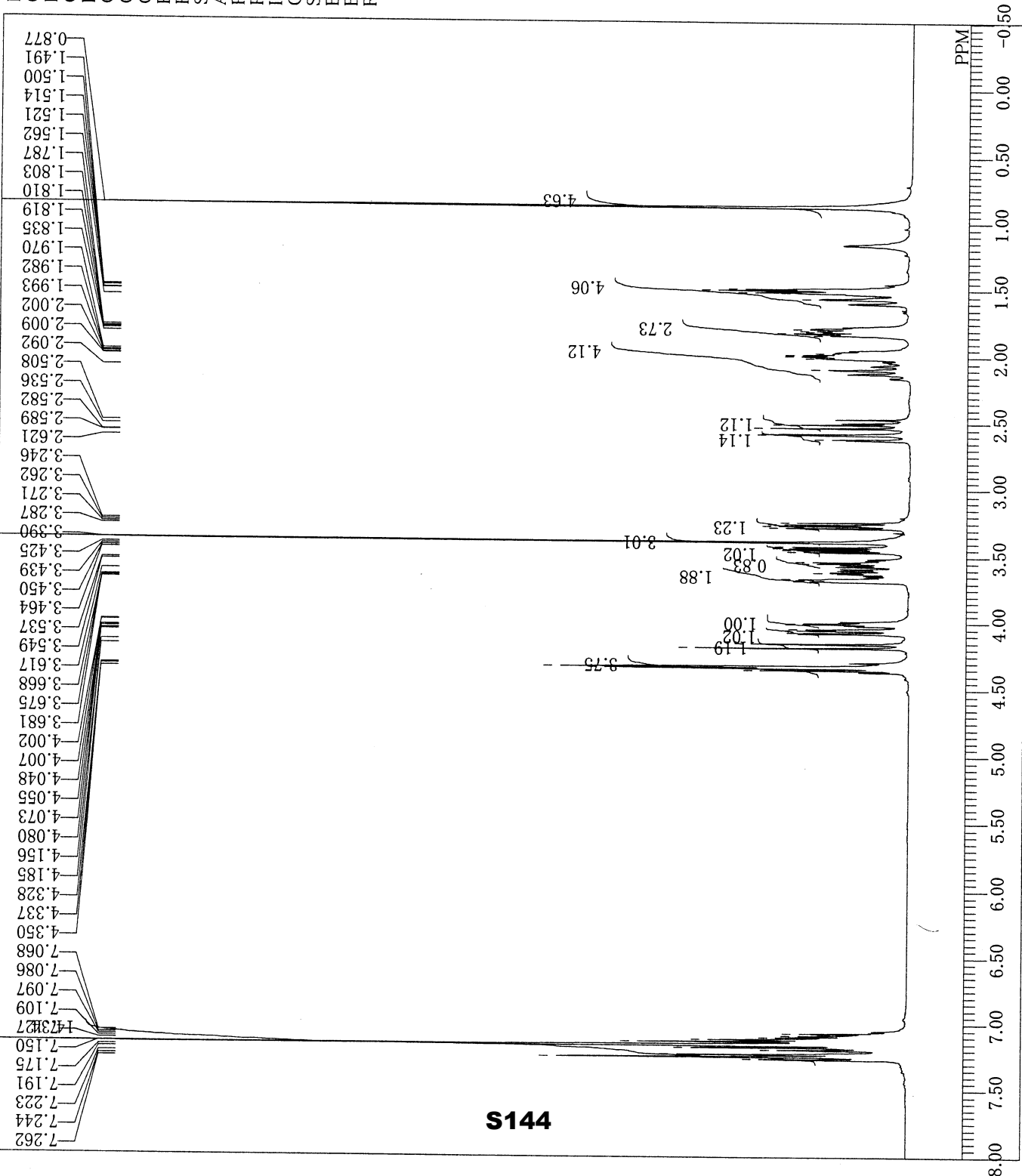
(100 MHz, C₆D₆)

HF15157b

S144

DFILE
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFRQ
 OBSST
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN

C:\Users\fuwa\HF15157b.1
 HF15157b
 02-10-2004 18:22:22
 1H
 single_pulse.ex2
 399.78 MHz
 4.19 KHz
 7.29 Hz
 8192
 7503.00 Hz
 16
 1.0918 sec
 30.0000 sec
 5.85 usec
 1H
 22.6 c
 C6D6
 7.15 ppm
 0.12 Hz
 36

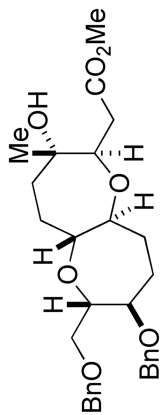
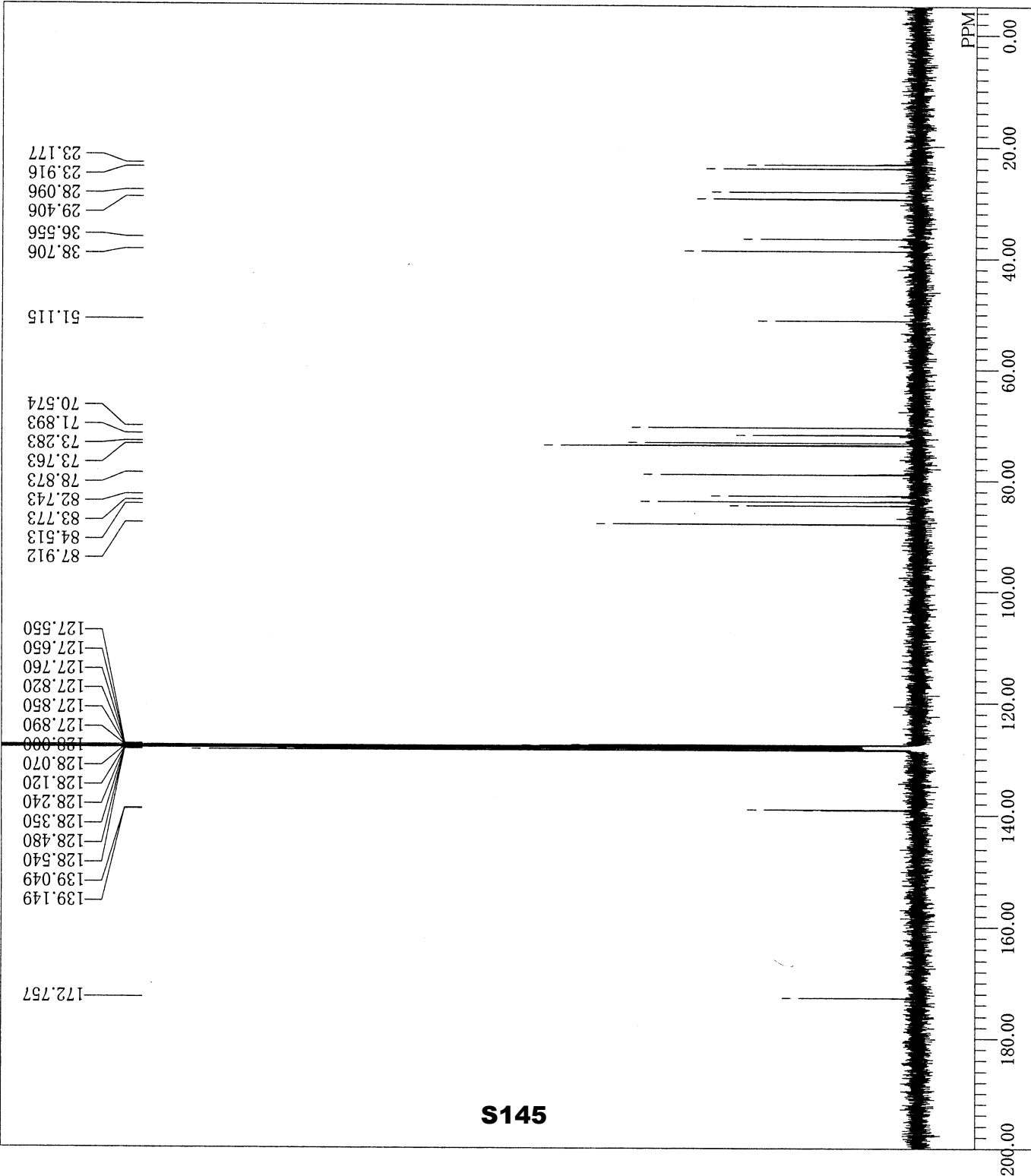


61

(400 MHz, C₆D₆)

DFILE
COMNT
DATIM
OBNUC
EXMOD
OBFRQ
OBSET
OBFIN
POINT
FREQU
SCANS
ACQTM
PD
PW1
IRNUC
CTEMP
SLVNT
EXREF
BF
RGAIN

C:\Users\Yfuwa\HF15157b_bcm.1
HF15157b
02-10-2004 19:48:30
13C
single_pulse_dec
100.53 MHz
5.35 KHz
5.86 Hz
32768
32938.08 Hz
256
0.9948 sec
1.5000 sec
3.13 usec
1H 23.3 c
C6D6
128.00 ppm
0.12 Hz
60

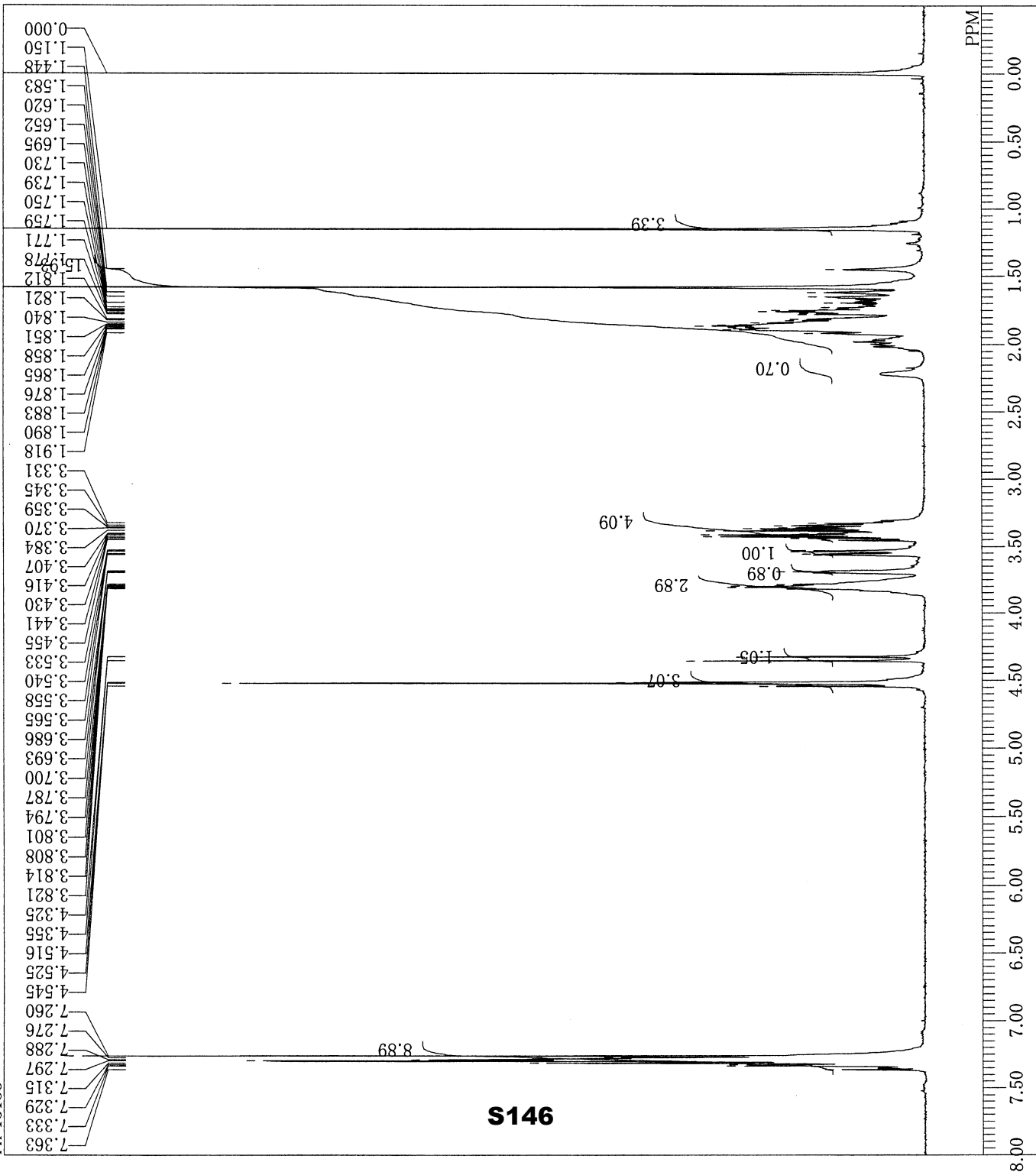


(100 MHz, C₆D₆)

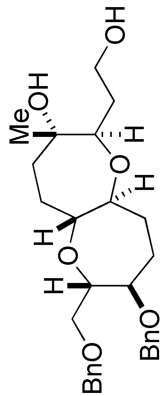
HF15158

DFILE
 COMINT
 DATIM
 OBNUC
 EXMOD
 OBFRQ
 OBSET
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN

C:\Users\fuwa\HF15158CDCI3.1
 HF15158
 15-10-2004 14:44:50
 1H
 single_pulse.ex2
 399.78 MHz
 4.19 KHz
 7.29 Hz
 8192
 7503.00 Hz
 16
 1.0918 sec
 30.0000 sec
 5.85 usec
 1H
 22.8 c
 CDCL3
 0.00 ppm
 0.12 Hz
 42



S146



62

(400 MHz, CDCl₃)

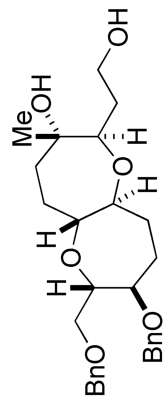
DFILE
COMNT
DATIM
OBNUC
EXMOD
OBFRQ
OBSET
OBFIN
POINT
FREQU
SCANS
ACQTM
PD
PWI
IRNUC
CTEMP
SLVNT
EXREF
BF
RGAIN

C:\Users\fuwa\HF15158bcm.1
HF15158
15-10-2004 18:49:18
13C
single.pulse.dec
100.53 MHz
5.35 KHz
5.86 Hz
32768
32938.08 Hz
128
0.9948 sec
1.5000 sec
3.13 usec
1H
23.1 c
CDCL3
77.00 ppm
0.12 Hz
60

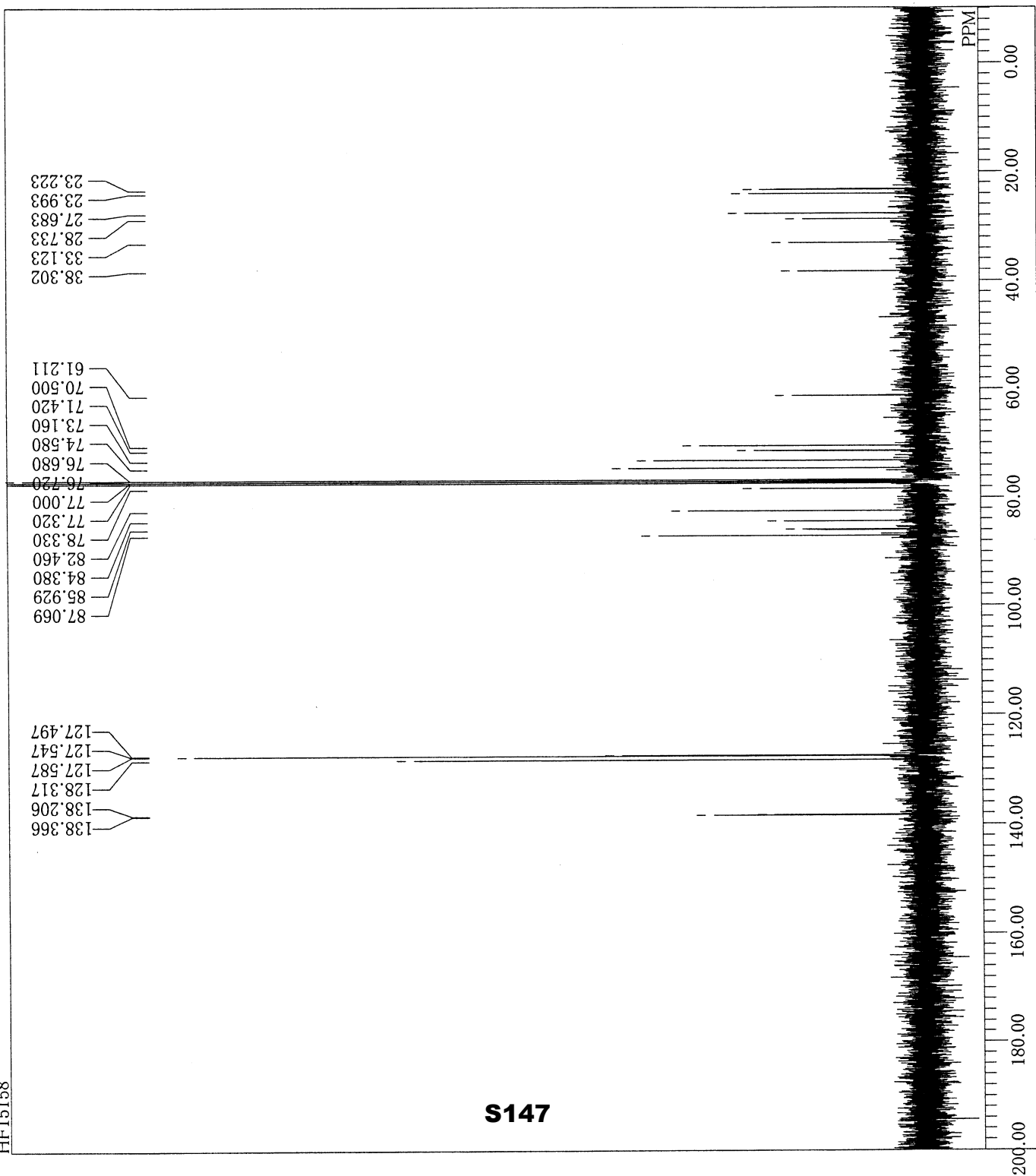
38.302
33.123
28.733
27.683
23.993
23.223

87.069
85.929
84.380
82.460
78.330
77.320
77.000
76.720
76.680
74.580
73.160
71.420
70.500
61.211

138.366
138.206
128.317
127.587
127.547
127.497

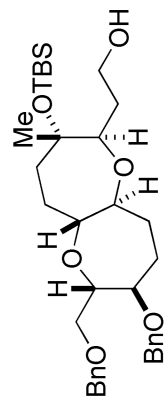
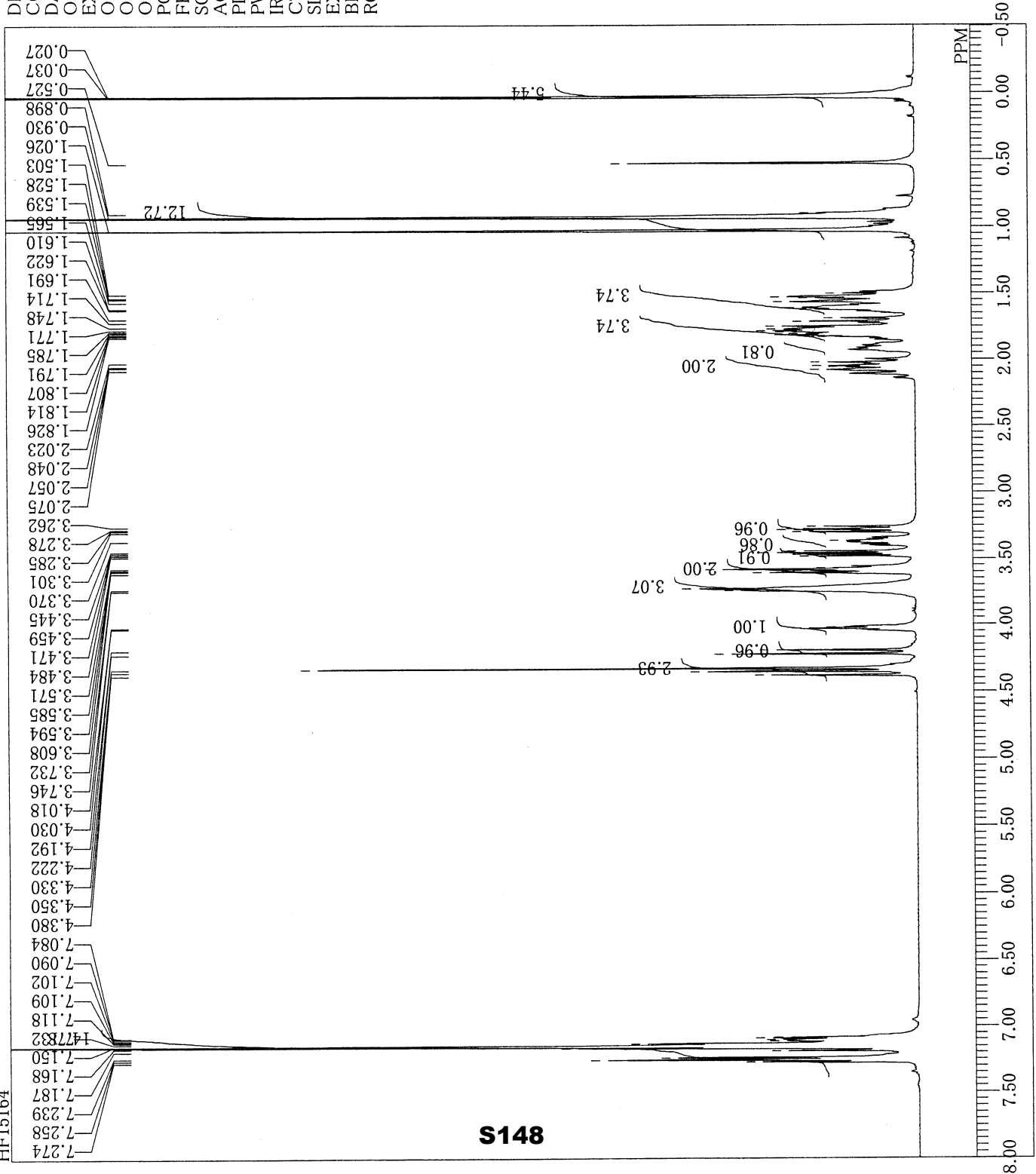


62

(100 MHz, CDCl₃)

DFILE
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFRO
 OBSRT
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN

C:\Users\fuwa\HF15164.1
 HF15164
 13-10-2004 17:59:15
 1H
 single.pulse.ex2
 399.78 MHz
 4.19 KHz
 7.29 Hz
 8192
 7503.00 Hz
 16
 1.0918 sec
 30.0000 sec
 5.85 usec
 1H
 23.0 c
 C6D6
 7.15 ppm
 0.12 Hz
 40



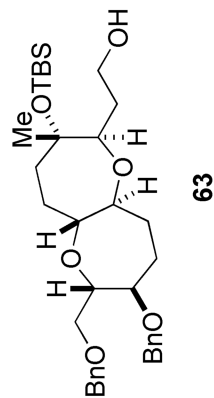
63

(400 MHz, C₆D₆)

DFILE
COMNT
DATIM
OBNUC
EXMOD
OBFRQ
OBSET
OBFIN
POINT
FREQU
SCANS
ACQTM
PD
PW1
IRNUC
CTEMP
SLVNT
EXREF
BF
RGAIN

C:\Users\yfuwa\HF15164bcm.1
HF15164
13-10-2004 18:18:13
13C
single_pulse_dec
100.53 MHz
5.35 KHz
5.86 Hz
32768
32938.08 Hz
384
0.9948 sec
1.5000 sec
3.13 usec
1H 23.5 c
C6D6
128.00 ppm
0.12 Hz
60

139.119
138.959
128.530
128.360
128.240
128.120
128.070
128.000
127.890
127.840
127.760
127.610
87.623
86.763
84.033
82.473
78.813
77.573
73.343
71.923
70.614
61.374
37.916
33.426
29.326
28.086
25.986
24.416
23.147
18.277
-2.052
-2.202



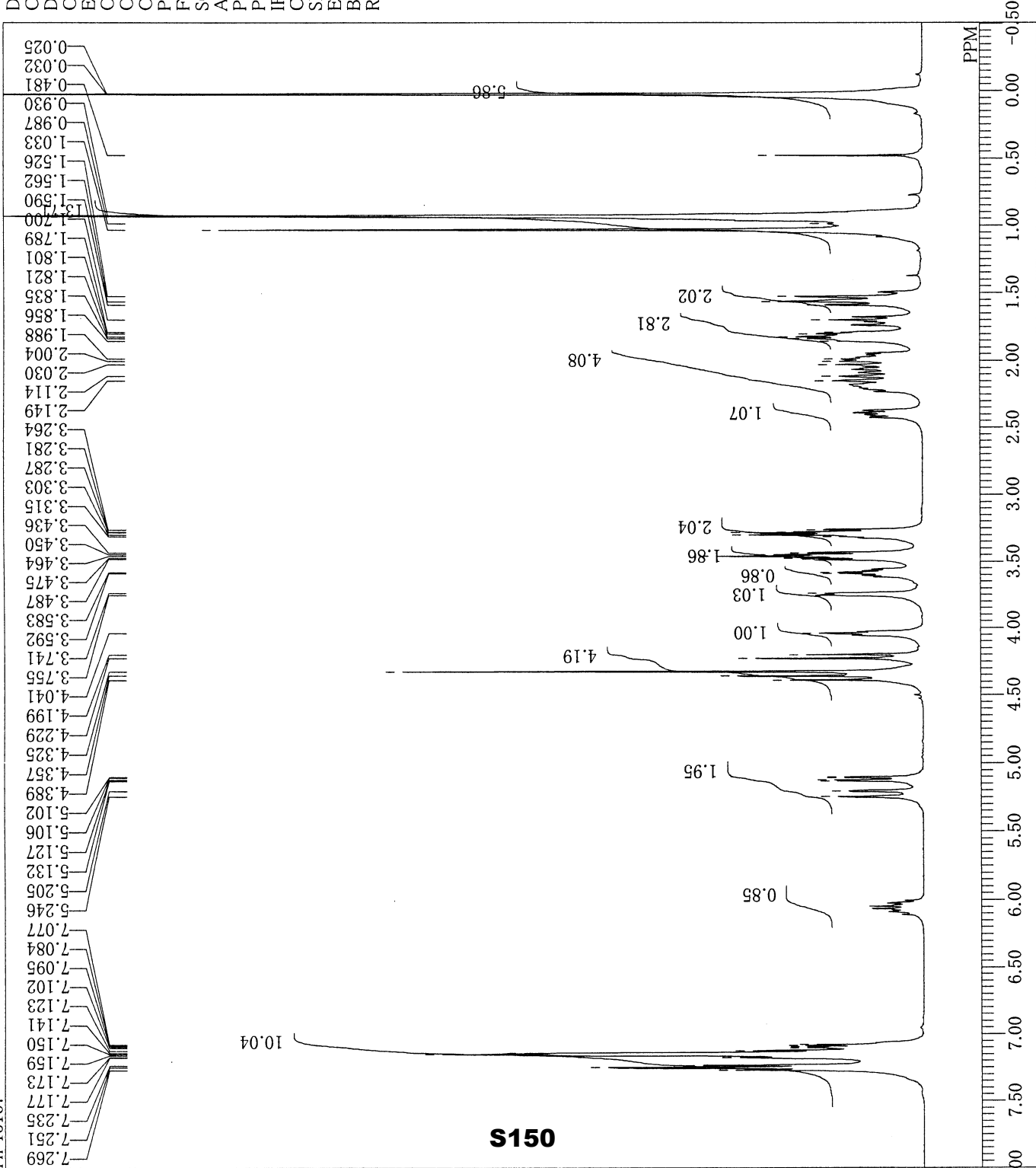
(100 MHz, C₆D₆)



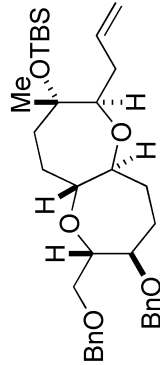
HF15167

DFILE
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFRQ
 OBSET
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN

C:\Users\Yfuwa\HF15167.1
 HF15167
 18-10-2004 14:46:34
 1H
 single_pulse.ex2
 399.78 MHz
 4.19 KHz
 7.29 Hz
 8192
 7503.00 Hz
 16
 1.0918 sec
 30.0000 sec
 5.85 usec
 1H
 22.9 c
 C6D6
 7.15 ppm
 0.12 Hz
 36



S150

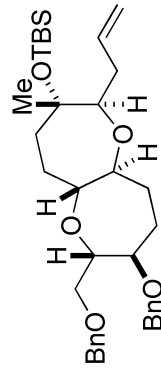
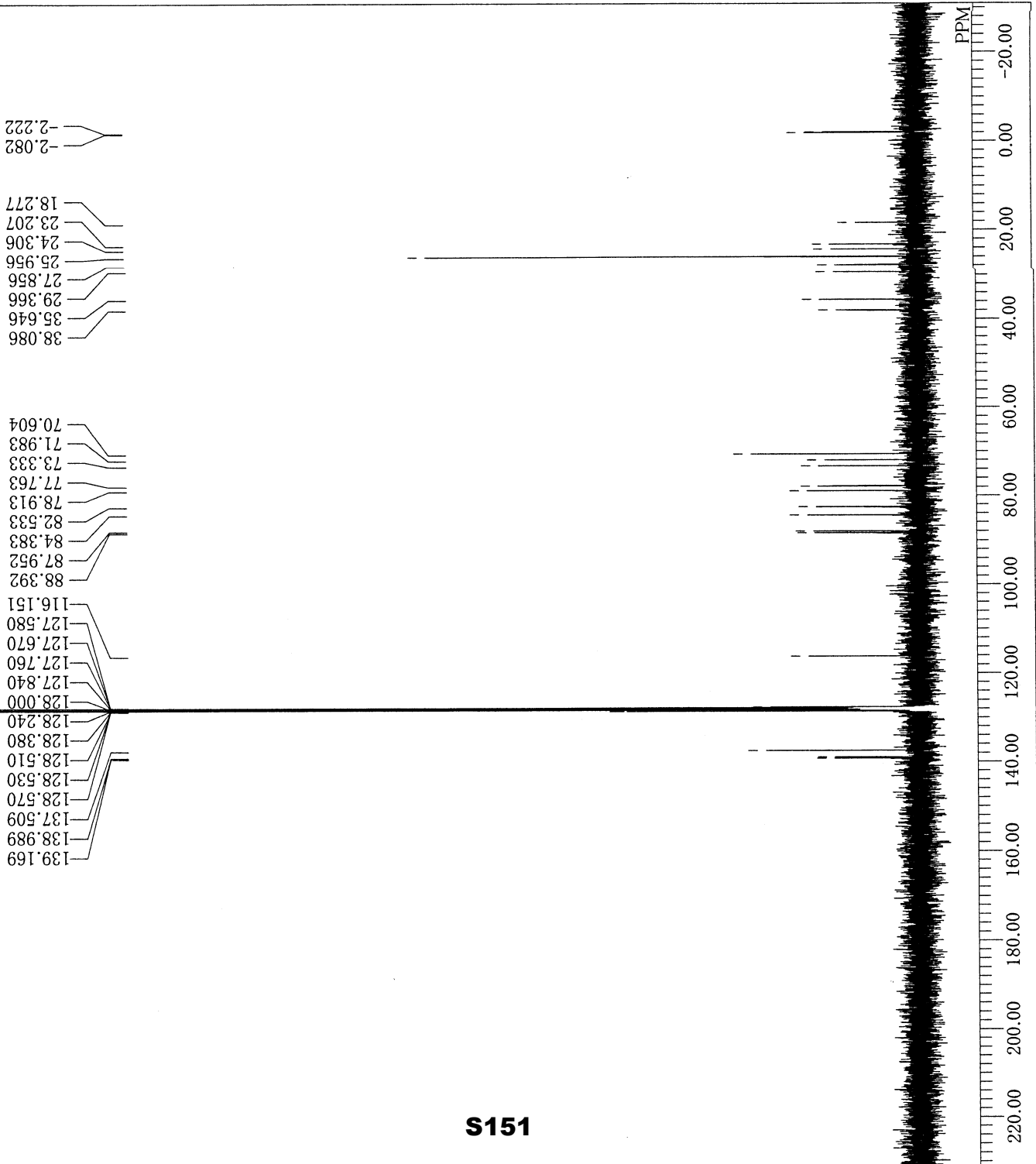


64

(400 MHz, C₆D₆)

DFILE
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFRQ
 OBSST
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN

C:\Users\yfuwa\HF15167bcm.1
 HF15167
 18-10-2004 14:57:52
 13C
 single_pulse_dec
 100.53 MHz
 5.35 KHz
 5.86 Hz
 32768
 32938.08 Hz
 192
 0.9948 sec
 1.5000 sec
 3.13 usec
 1H
 23.4 c
 C6D6
 128.00 ppm
 0.12 Hz
 60



64

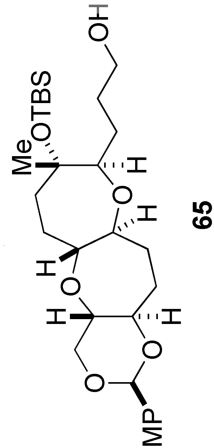
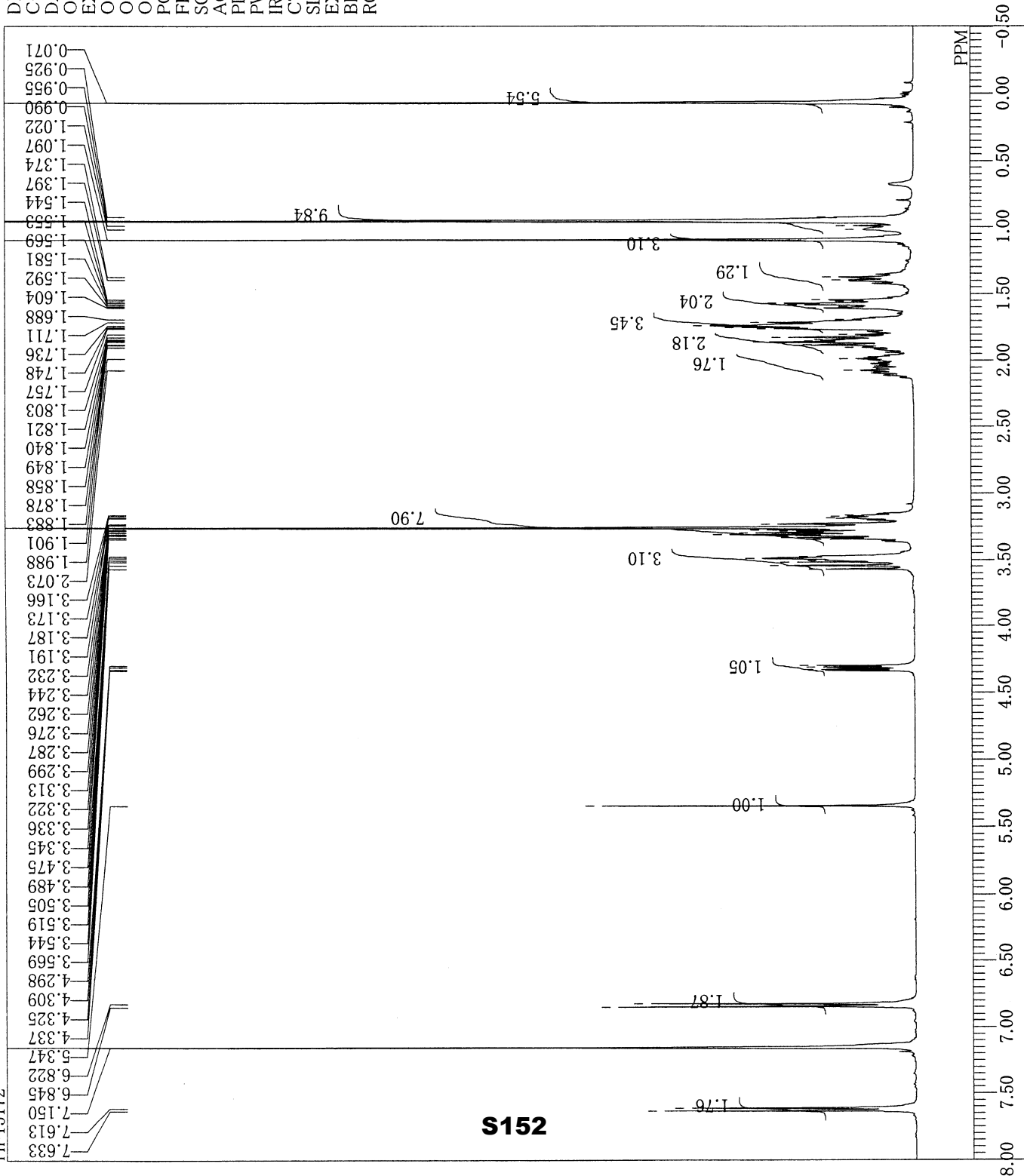
(100 MHz, C₆D₆)

HF15172

S152

DFILE
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFRQ
 OBSSET
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CRTEMP
 SLVNT
 EXREF
 BF
 RGAIN

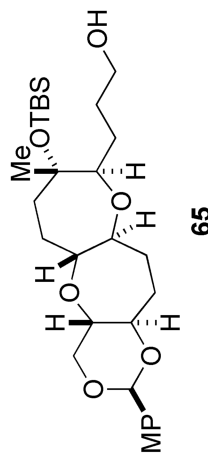
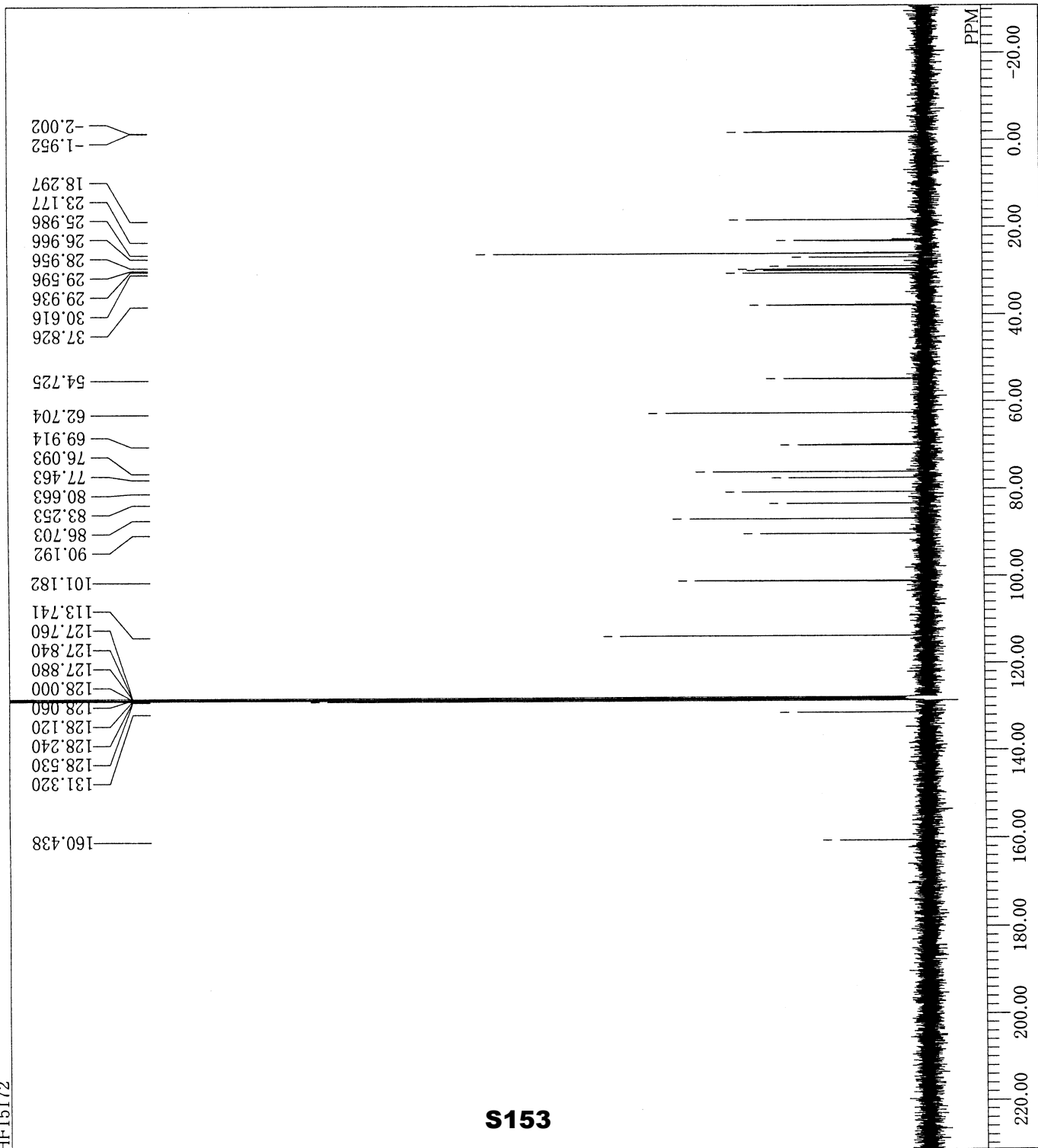
C:\Users\fuwa\HF15172.1
 HF15172
 19-10-2004 18:13:58
 1H
 single_pulse.ex2
 399.78 MHz
 4.19 KHz
 7.29 Hz
 8192
 7503.00 Hz
 16
 1.0918 sec
 30.0000 sec
 5.85 usec
 1H
 22.8 c
 C6D6
 7.15 ppm
 0.12 Hz
 36



(400 MHz, C₆D₆)

DFILE
COMNT
DATIM
OBNUC
EXMOD
OBFRQ
OBSET
OBFIN
POINT
FREQU
SCANS
ACQTM
PD
PW1
IRNUC
CTEMP
SLVNT
EXREF
BF
RGAIN

C:\Users\fuwa\HF15172bcm.1
HF15172
19-10-2004 18:24:53
13C
single_pulse_dec
100.53 MHz
5.35 KHz
5.86 Hz
32768
32938.08 Hz
192
0.9948 sec
1.5000 sec
3.13 usec
1H 23.6 c
C6D6
128.00 ppm
0.12 Hz
60

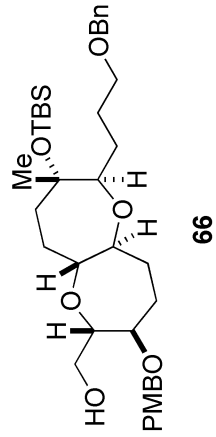
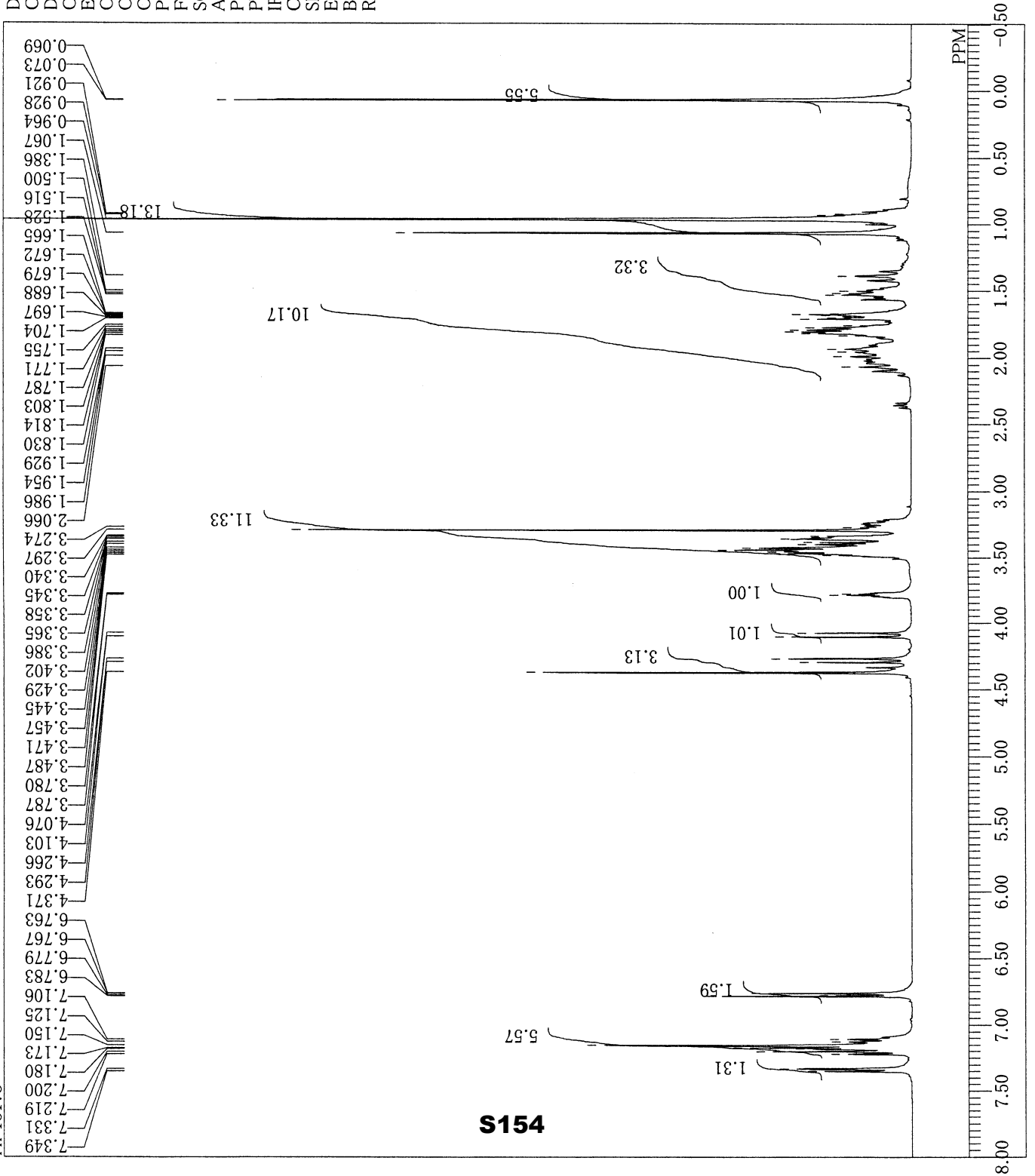


(100 MHz, C₆D₆)

HF15173

DFIL E
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFRO
 OBSET
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN

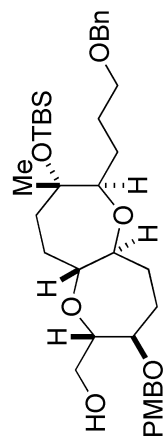
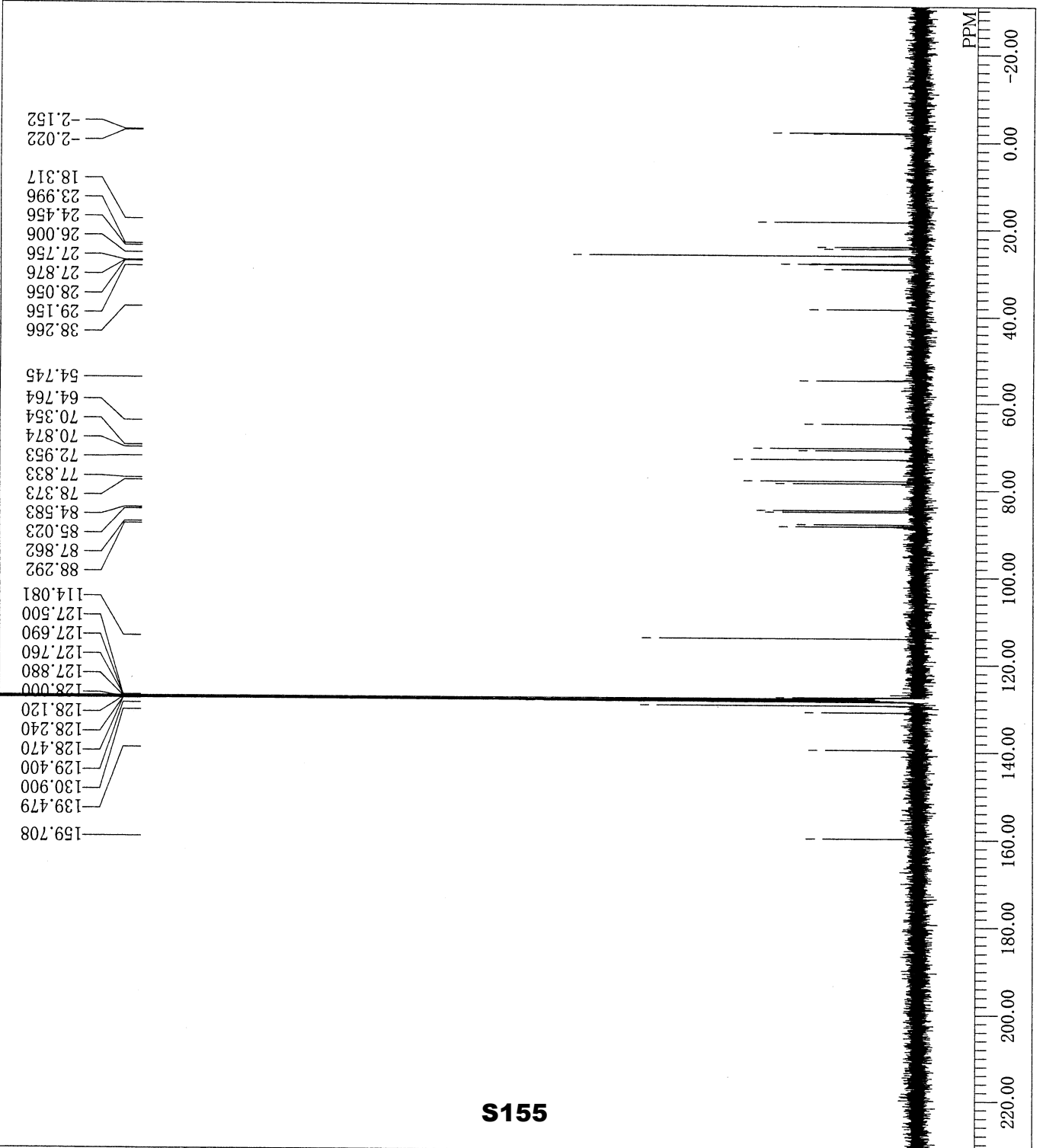
C:\Users\fluwa\HF15173.1
 HF15173
 20-10-2004 18:15:36
 1H
 single_pulse.ex2
 399.78 MHz
 4.19 KHz
 7.29 Hz
 8192
 7503.00 Hz
 16
 1.0918 sec
 30.0000 sec
 5.85 usec
 1H 22.7 c
 C6D6
 7.15 ppm
 0.12 Hz
 36



(400 MHz, C₆D₆)

DFILE
 COMNT
 DATIM
 OBNUC
 EXMOD
 OBFRQ
 OBSET
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC
 CTEMP
 SLVNT
 EXREF
 BF
 RGAIN

C:\Users\fluwa\HF15173bcm.1
 HF15173
 20-10-2004 18:26:27
 13C
 single_pulse_dec
 100.53 MHz
 5.35 KHz
 5.86 Hz
 32768
 32938.08 Hz
 192
 0.9948 sec
 1.5000 sec
 3.13 usec
 1H
 23.4 c
 C6D6
 128.00 ppm
 0.12 Hz
 60

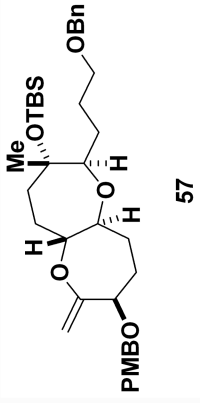


(100 MHz, C₆D₆)

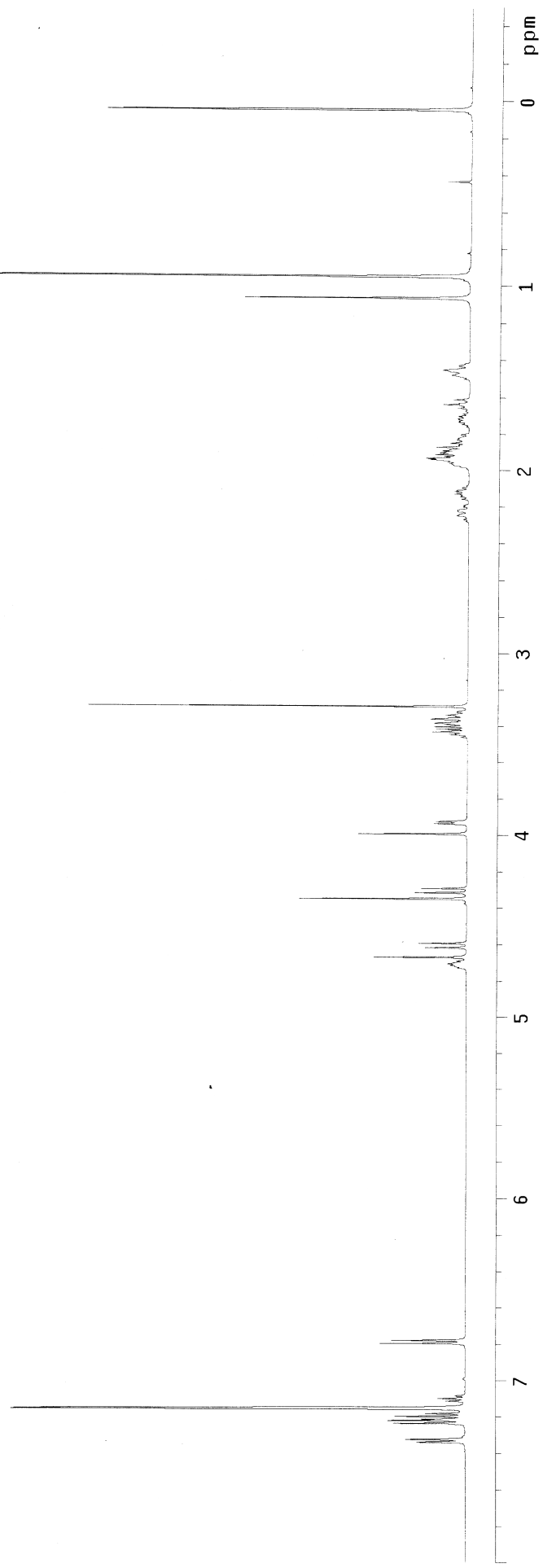
Ebine III-30/C6D6

exp1 s2pul

date	Jan 11 2005	dfrq	499.862	DEC. & VT
solvent	Benzene	dn	H1	
file	exp	dpwr	30	
ACQUISITION	exp	dof	0	
sfrq	499.862	dm	nmh	
tn	H1	dmm	C	
at	1.892	dmf	200	
np	30272	dseq		
sw	8000.0	dres	1.0	
fb	not used	homo	n	
bs	4	temp	20.0	
tpwr	54	PROCESSING		
pw	2.5	wffile		
d1	1.000	proc	lp	
tof	-140.0	fn	not used	
nt	8	math	f	
ct	8	werr	n	
alock	not used	wexp	n	
gain	not used	wbs	n	
FLAGS		wnt	wft	
il	n			
in	n			
dp	y			
hs	nn			
DISPLAY				
sp	-250.0			
wp	4248.8			
vs	64			
sc	0			
wc	250			
h2mm	17.00			
is	2595.56			
rfl	5206.9			
rff	3574.0			
th				
ins	1.000			
ai				
ph				



(500 MHz, C₆D₆)



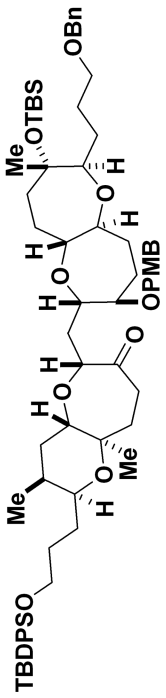
STANDARD PROTON PARAMETERS

exp1 s2pul

SAMPLE	DEC. & VT
date Jun 21 2006	dfrq 499.862
solvent CDCl3	H1
file /export/home/~ dpwr	dn 30
vnmr1/vnmrSYS/data~ dof	0
/Sasaki_lab/Ebine/~ dm	nnn
ebineIII-122-H.fid	dmm c
ACQUISITION	dmf 200
sfrq 499.862	dseq
tn H1	dres 1.0
at 1.892	homo n
np 30272	temp 20.0
sw 8000.0	PROCESSING
fb not used	wtfile
bs 4	proc lp
tpwr 54	fn not used
pw 2.5	math f
d1 1.000	
tof -140.0	werr
nt 64	wexp
ct 64	wbs
alock n	wnt
gain not used	wft

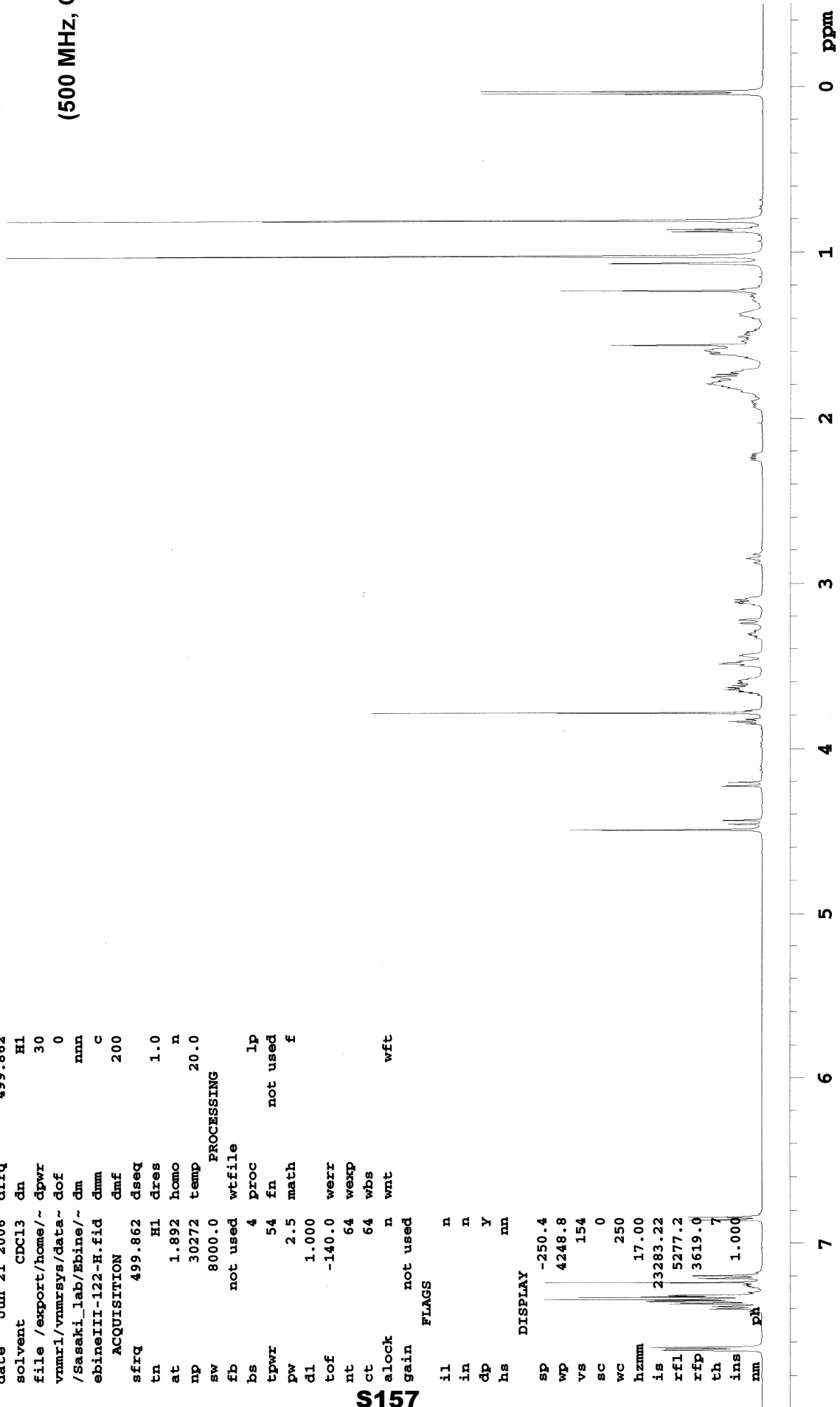
il	n	FLAGS
in	n	
dp	y	
hs	nn	
DISPLAY		
sp	-250.4	
wp	4248.8	
vs	154	
sc	0	
wc	250	
hzmnm	17.00	
is	23283.22	
rfl	5277.2	
rfp	3619.0	
th	7	
ins	1.000	
nm	ph	

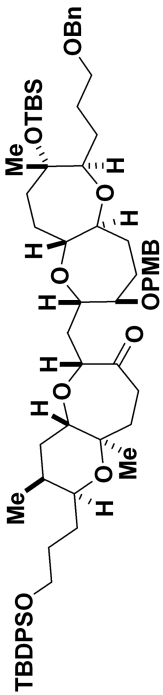
S157



70

(500 MHz, CDCl₃)





70

(125 MHz, CDCl₃)

STANDARD CARBON PARAMETERS

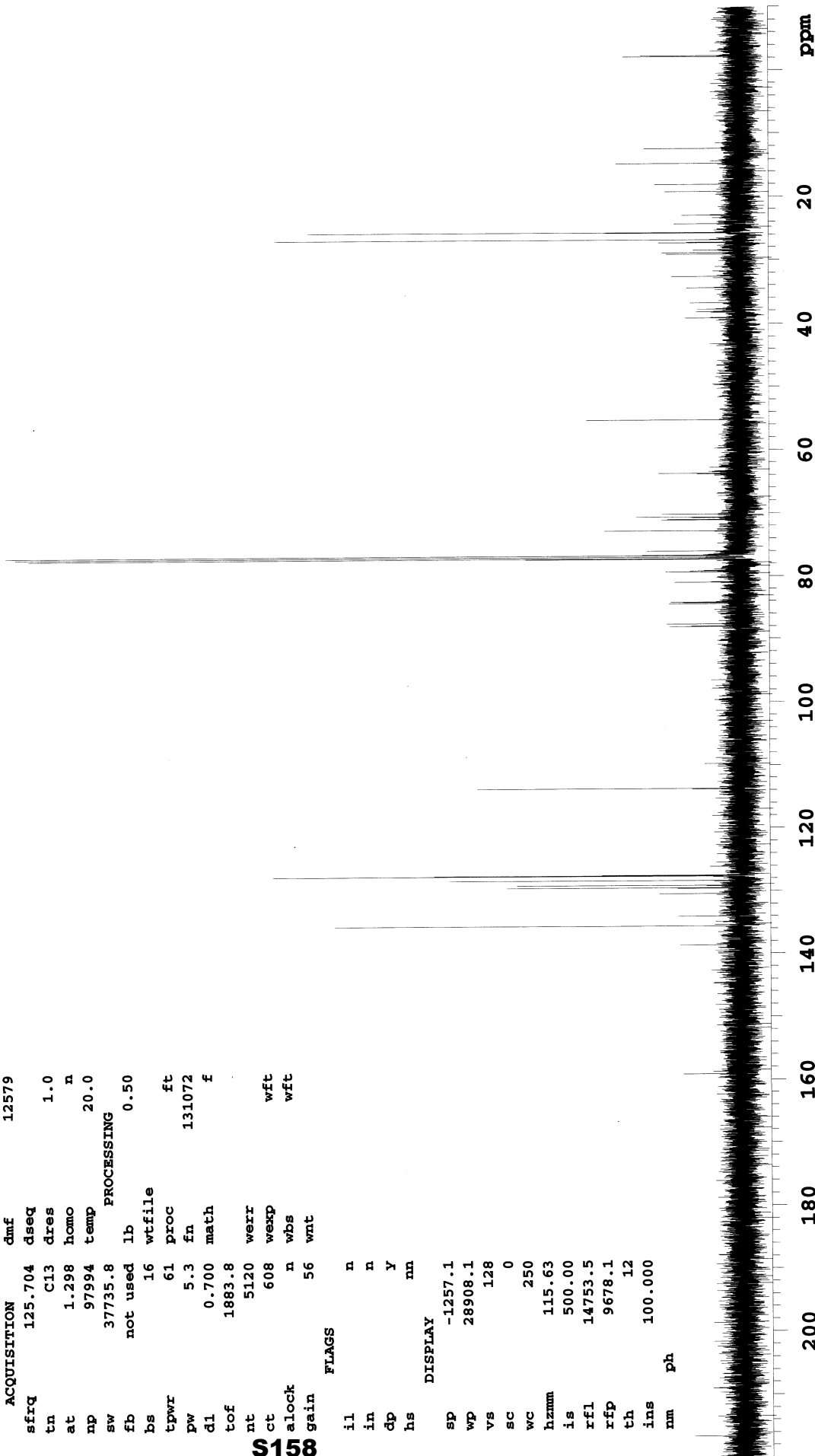
```

exp1 s2pul
SAMPLE DEC. & VT
date Jun 21 2006 dfrq 499.862
solvent CDCl3 dn H1
file /export/home/~ dpwr 27
vnmr1/vnmrSYS/data~ dof 0
/Sasaki_lab/Ebine/~ dm YYY
ebineIII-122-C.fid dmm w
ACQUISITION dmf 12579
sfrq 125.704 dseq
tn C13 dres 1.0
at 1.298 homo n
np 97994 temp 20.0
sw 37735.8 PROCESSING
fb not used lb 0.50
bs 16 wtfile
tpwr 61 proc ft
pw 5.3 fn 131072
dl 0.700 math f
tof 1883.8
nt 5120 werr
ct 608 wexp wft
alock n wbs wft
gain 56 wnt
  
```

FLAGS

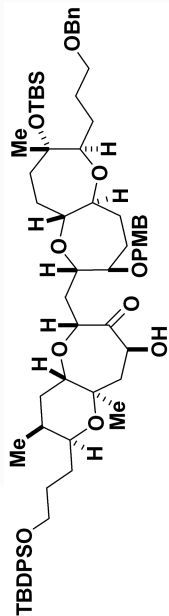
```

il n
in n
dp Y
hs nn
DISPLAY
sp -1257.1
wp 28908.1
vs 128
sc 0
wc 250
hzmm 115.63
is 500.00
rfl 14753.5
rfp 9678.1
th 12
ins 100.000
nm ph
  
```

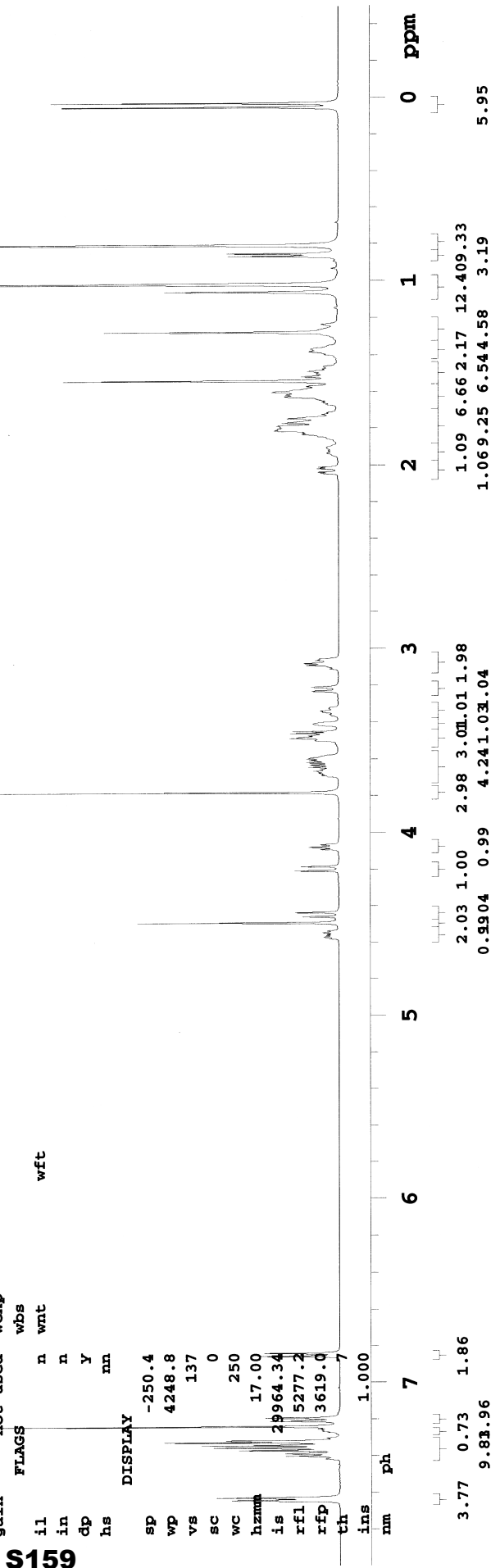


STANDARD PROTON PARAMETERS

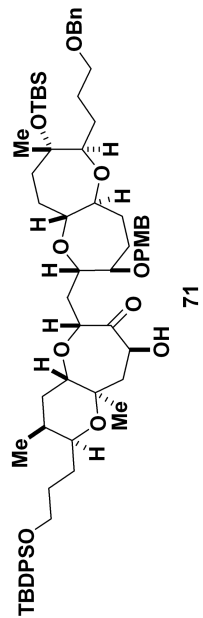
exp1 s2pul
 SAMPLE DEC. & VT
 date Jun 24 2006 dfrq 499.862
 solvent CDCl3 dn H1
 file exp dpwr 30
 ACQUISITION dof 0
 sfrq 499.862 dm nnn
 tn H1 dnm c
 at 1.892 dmf 200
 np 30272 dseq
 sw 8000.0 dres 1.0
 fb not used homo n
 bs 4 temp 20.0
 tpwr 54 PROCESSING
 pw 2.5 wtfile
 dl 1.000 proc lp
 tof -140.0 fn not used
 nt 64 math f
 ct 64
 alock n werr
 gain not used wexp
 FLAGS wbs wft
 il n wnt
 in n
 dp y
 hs nn
 DISPLAY
 sp -250.4
 wp 4248.8
 vs 137
 sc 0
 wc 250
 hzmm 17.00
 is 2964.34
 rfl 5277.2
 rfp 3619.0
 th 7
 ins 1.000
 nm ph 7



(500 MHz, CDCl₃)



S159



71

(125 MHz, CDCl₃)

STANDARD CARBON PARAMETERS

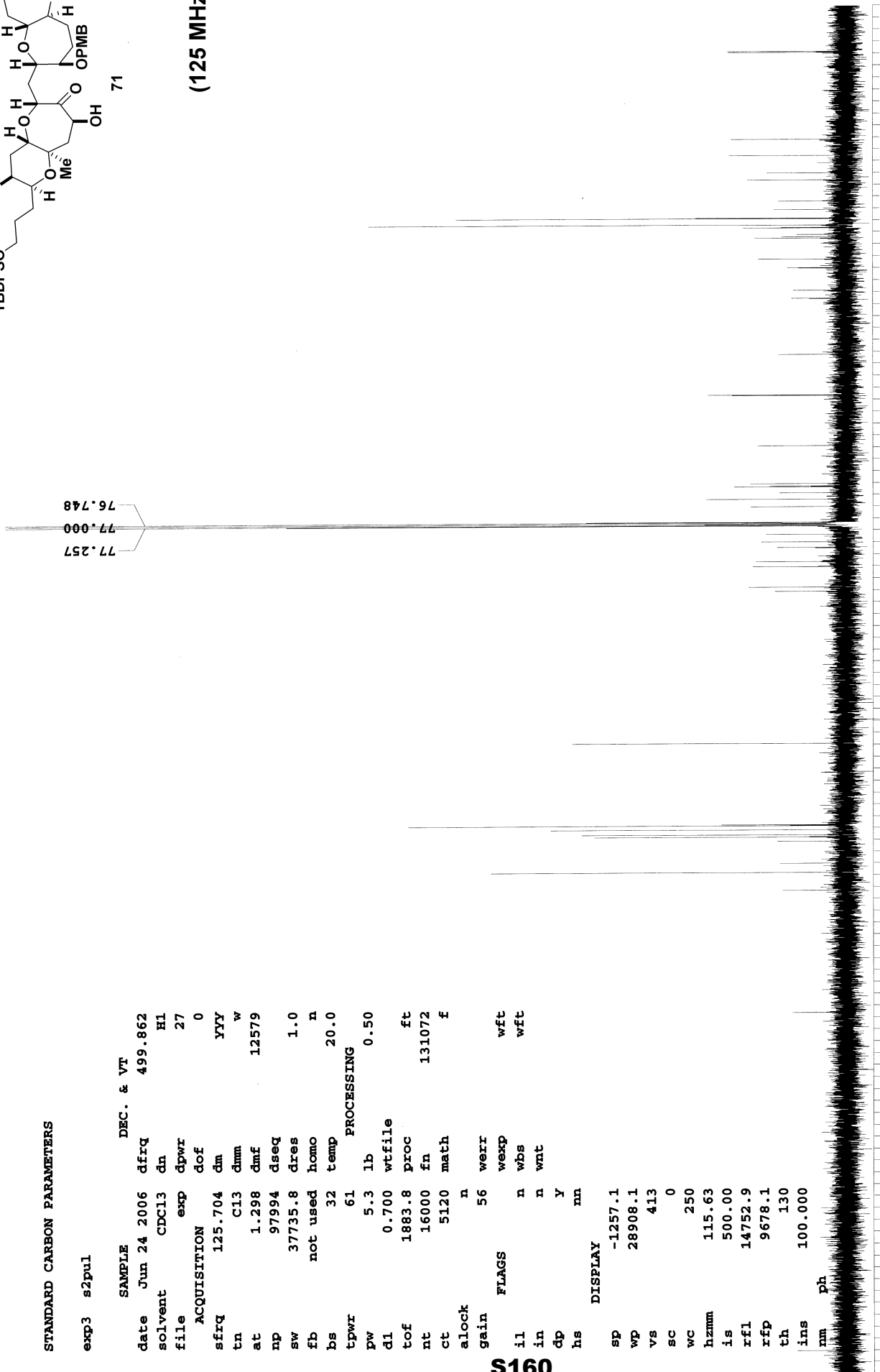
exp3 s2pul

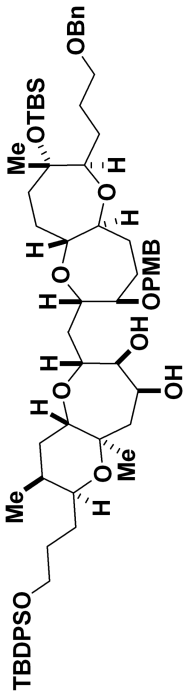
SAMPLE	DEC. & VT
date Jun 24 2006	dfrq 499.862
solvent CDC13	dn H1
file exp 27	dpwr 0
ACQUISITION	dof 0
sfrq 125.704	dm YYY
tn C13	dmm w
at 1.298	dmf 12579
np 97994	dseq 1.0
sw 37735.8	dres n
fb not used	homo n
bs 32	temp 20.0
tpwr 61	PROCESSING
pw 5.3	lb 0.50
d1 0.700	wtfile ft
tof 1883.8	proc 131072
nt 16000	fn f
ct 5120	math
alock n	werr
gain 56	wexp wft
il n	wbs wft
in n	wnt
dp y	
hs nn	
DISPLAY	
sp -1257.1	
wp 28908.1	
vs 413	
sc 0	
wc 250	
hzmm 115.63	
is 500.00	
rfl 14752.9	
rfp 9678.1	
th 130	
ins 100.000	
nm ph	

S160

77.257
77.000
76.748

200 180 160 140 120 100 80 20 ppm





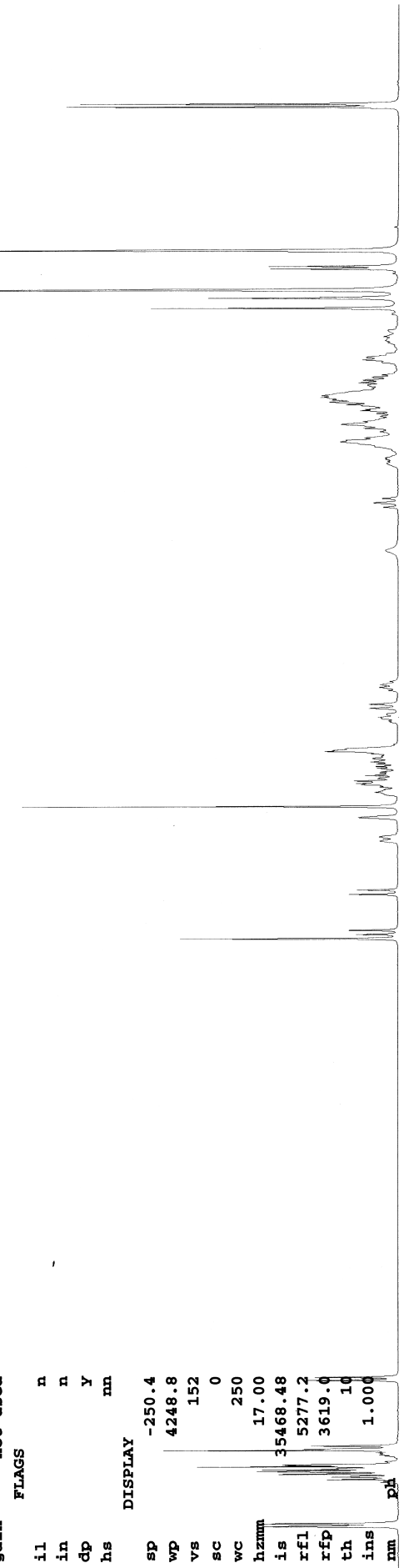
72

(500 MHz, CDCl₃)

STANDARD PROTON PARAMETERS

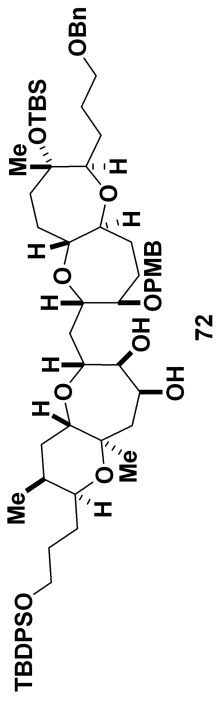
```

exp1 s2pul
SAMPLE DEC. & VT
date Jun 25 2006 dfrq 499.862
solvent CDCl3 dn H1
file /export/home/~ dpwr 30
vnmr1/vnmrSYS/data~ dof 0
/Sasaki_lab/Ebine/~ dm nnn
ebineIII-131-H.fid dmm c
ACQUISITION dmf 200
sfrq 499.862 dseq 1.0
tn H1 dres n
at 1.892 homo n
np 30272 temp 20.0
sw 8000.0 PROCESSING
fb not used wfile
bs 4 proc lp
tpwr 54 fn not used
pw 2.5 math f
d1 1.000
tof -140.0 werr
nt 64 wexp
ct 64 wbs
alock n wnt wft
gain not used
  
```



nm 7 6 5 4 3 2 1 0 ppm

S161



72

(125 MHz, C₆D₆)

STANDARD CARBON PARAMETERS

```

exp1 s2pul
SAMPLE
date Aug 7 2006 dfrq 499.862 DEC. & VT
solvent Benzene dn H1
file /export/home/~ dpwr 27
vnmr1/vnmrSYS/data/~ dof 0
/Sasaki_lab/Ebine/~ dm YYY
ebineIII-131-C-C6D6- dmm w
6.fid dmf 12579
ACQUISITION
sfrq 125.704 dseq 1.0
tn C13 homo n
at 1.298 temp 20.0
np 97994 PROCESSING
sw 37735.8 lb 0.50
fb not used wtfile
bs 16 proc ft
tpwr 61 fn 131072
pw 5.3 math f
dl 0.700
tof 1883.8 werr
nt 5120 wexp wft
ct 1280 wbs wft
alock n wnt
gain 56
DISPLAY
il n
in n
dp Y
hs nn
SP -1256.9
WP 26394.7
VS 846
SC 0
WC 250
hzmm 105.58
is 500.00
rf1 21120.2
rfp 16088.3
th 68
ins 100.000
nm ph
  
```

S162

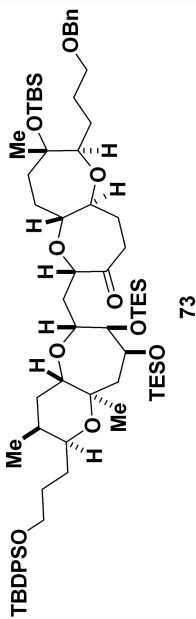


STANDARD PROTON PARAMETERS

```

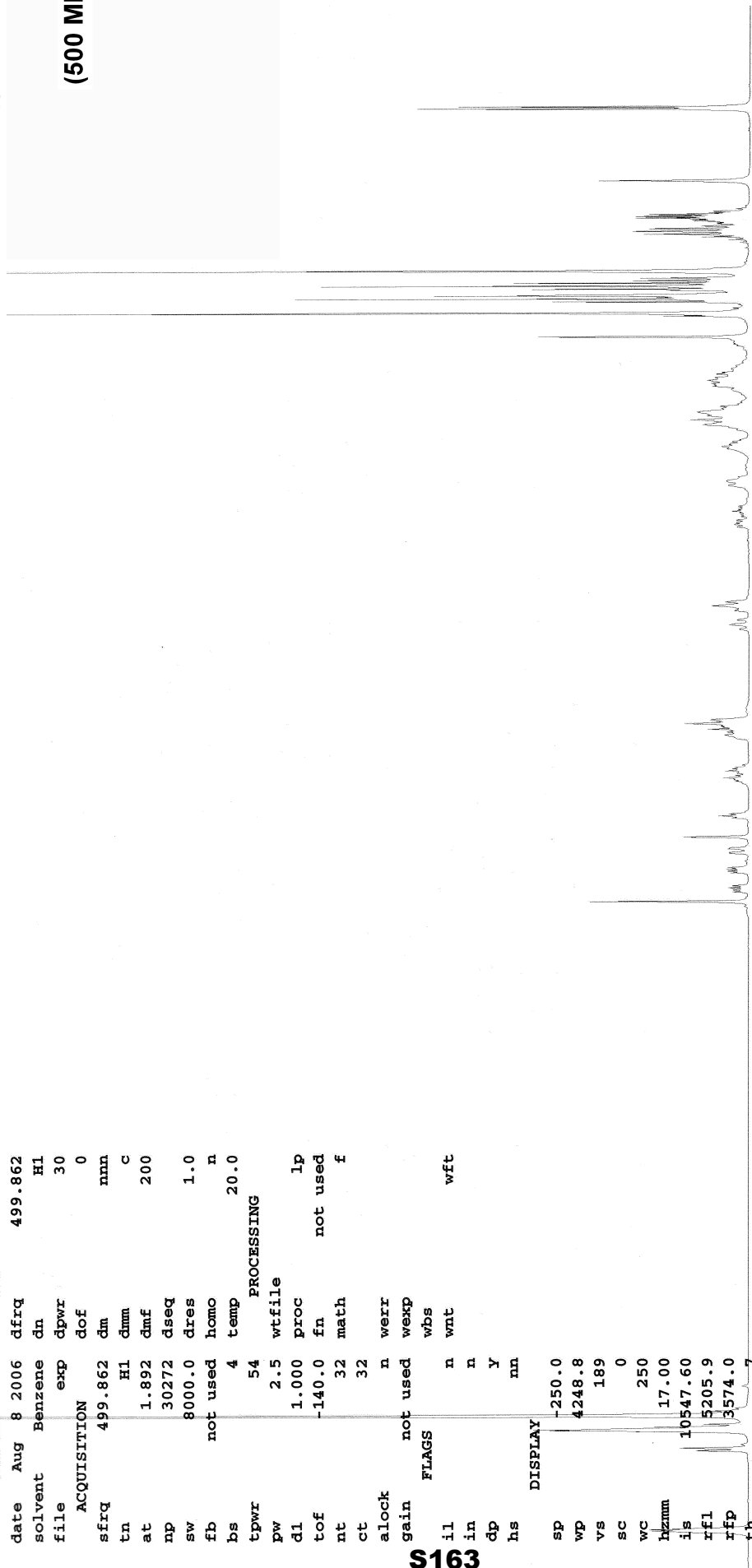
exp2 s2pul
SAMPLE
date Aug 8 2006 dfrq 499.862 DEC. & VT
solvent Benzene dn H1
file exp dpwr 30 H1
ACQUISITION dof 0
sfrq 499.862 dm nnn
tn H1 dmm c
at 1.892 dmf 200
np 30272 dseq
sw 8000.0 dres 1.0
fb not used homo n
bs 4 temp 20.0
tpwr 54 PROCESSING
pw 2.5 wtfile
d1 1.000 proc lp
tof -140.0 fn not used
nt 32 math f
ct 32
alock n werr
gain not used wexp
flags n wnt wft
il in n
dp y
hs nn
DISPLAY
sp -250.0
wp 4248.8
vs 189
sc 0
wc 250
hznum 17.00
is 10547.60
rfl 5205.9
rfp 3574.0
th 7
ins 1.000
nm ph

```



73

(500 MHz, C₆D₆)



Chemical Shift (ppm)	Integration
8.37	1.941.07
8.24	4.24
8.12	1.000.99
8.04	2.11.13
7.44	1.02
7.44	2.12
6.77	1.022.04
6.77	1.13
6.43	4.8012.37
6.43	10.410634
6.43	6.77

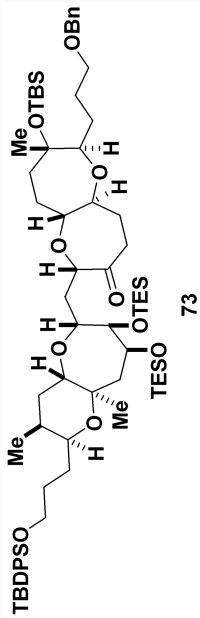
STANDARD CARBON PARAMETERS

exp3 s2pul

SAMPLE	DEC. & VT
date Aug 8 2006	dfrq 499.862
solvent Benzene	dn H1
file exp	dpwr 27
ACQUISITION	dof 0
sfrq 125.704	dm YYY
tn C13	dmm w
at 1.298	dmf 12579
np 97994	dseq 1.0
sw 37735.8	dres n
fb not used	homo n
bs 16	temp 20.0
tpwr 61	PROCESSING
pw 5.3	lb 0.50
d1 0.700	wtfile ft
tof 1883.8	proc 131072
nt 5120	fn f
ct 1760	math
alock n	werr
gain 56	wexp wft
il n	wbs wft
in n	wnt
dp y	
hs nn	

DISPLAY

sp	-1256.9
wp	28908.1
vs	1005
sc	0
wc	250
hzmm	115.63
is	125.00
rfl	21119.6
rfp	16088.3
th	19
ins	100.000
nm	
ph	

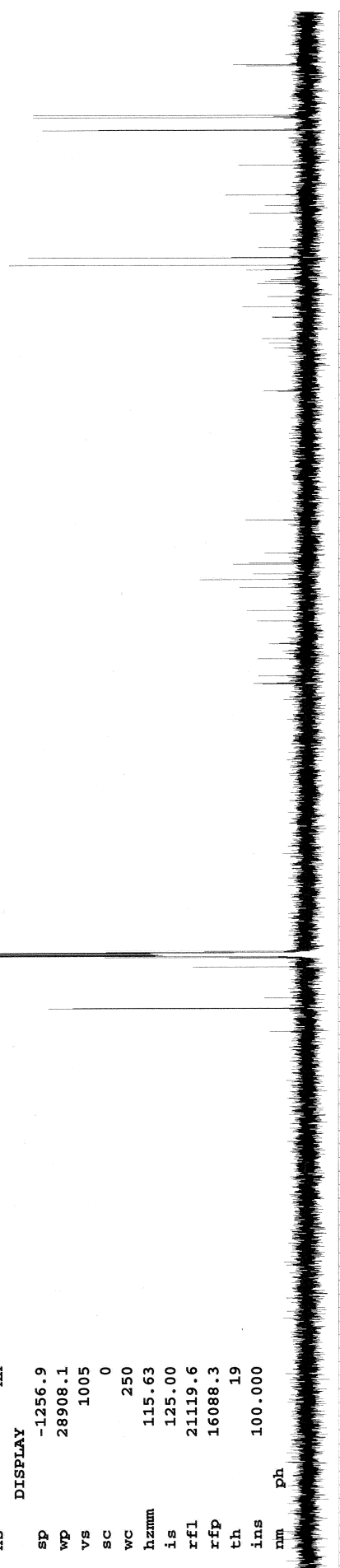


73

(125 MHz, C₆D₆)

S164

200 180 160 140 120 100 80 60 40 20 ppm



STANDARD PROTON PARAMETERS

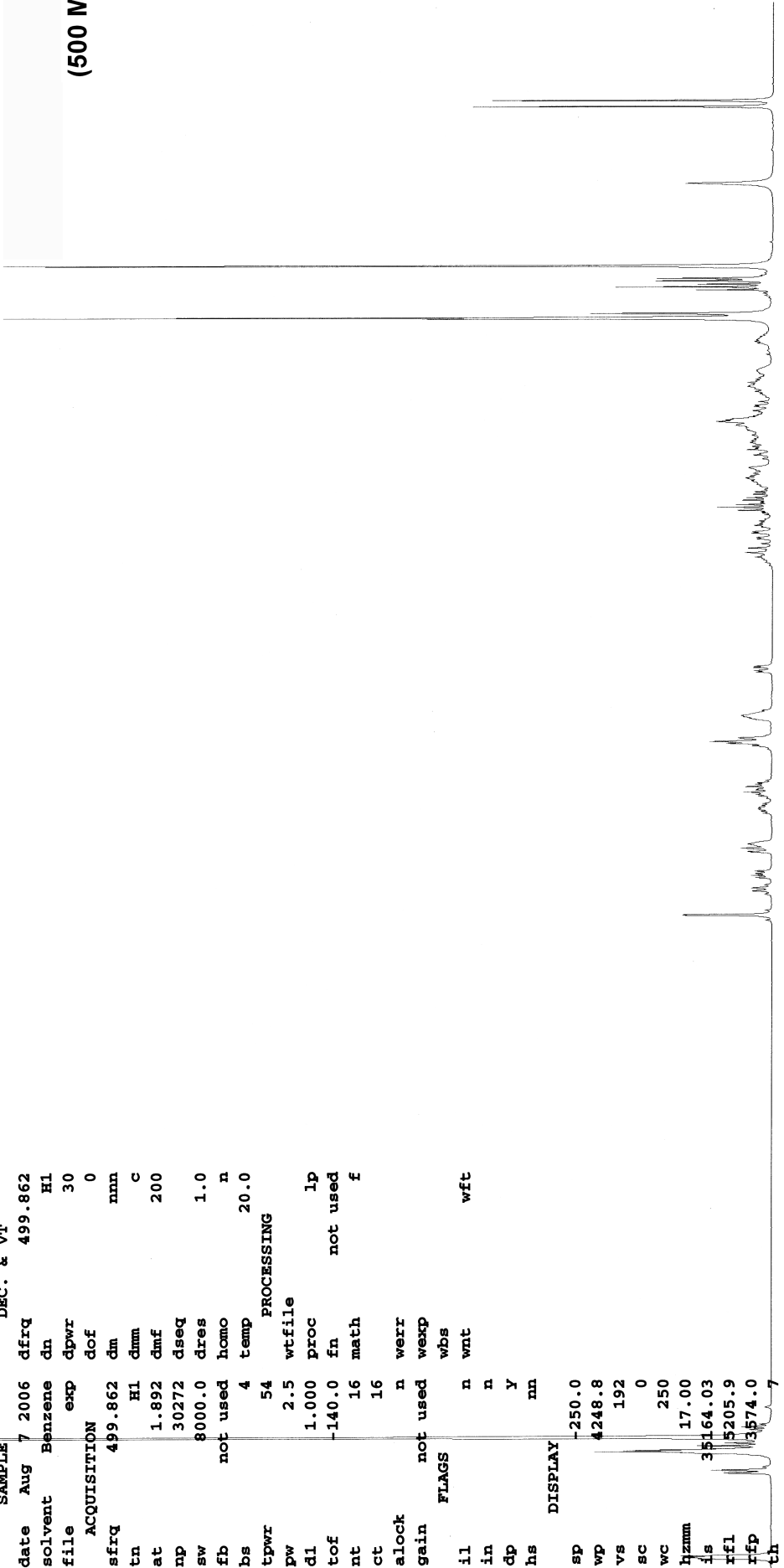
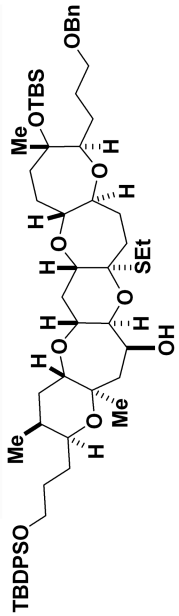
exp3 s2pul

SAMPLE DEC. & VT
 date Aug 7 2006 dfrq 499.862
 solvent Benzene dn H1
 file exp dpwr 30
 ACQUISITION dof 0
 sfrq 499.862 dm nnn
 tn H1 dnm c
 at 1.892 dmf 200
 np 30272 dseq
 sw 8000.0 dres 1.0
 fb not used homo n
 bs 4 temp 20.0
 tpwr 54 PROCESSING
 pw 2.5 wtfile
 dl 1.000 proc lp
 tof -140.0 fn not used
 nt 16 math f
 ct 16
 alock n werr
 gain not used wexp
 FLAGS wbs
 il n wnt wft
 in n
 dp y
 hs mn
 DISPLAY
 sp -250.0
 wp 4248.8
 vs 192
 sc 0
 wc 250
 hzmm 17.00
 fs 35164.03
 xfl 5205.9
 rfp 3574.0
 ch 7

74

(500 MHz, C₆D₆)

Acetyl
 Oxide



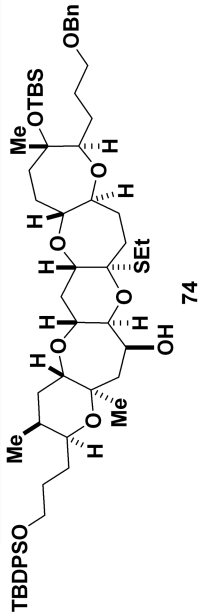
S165

STANDARD CARBON PARAMETERS

exp4 s2pul

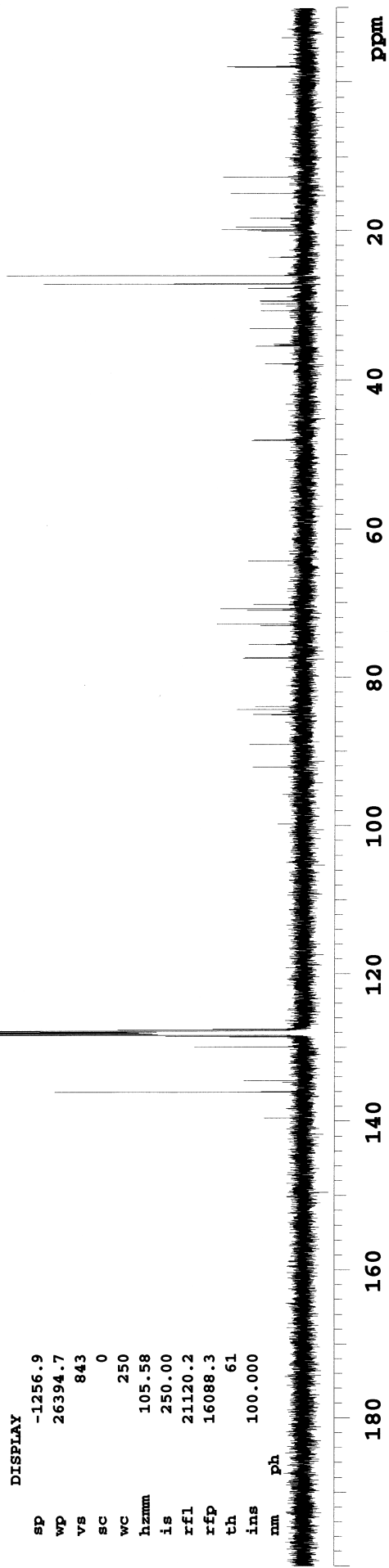
SAMPLE	DEC. & VT
date Aug 7 2006	dfrq 499.862
solvent Benzene	dn H1
file exp	dpwr 27
ACQUISITION	dof 0
sfrq 125.704	dm YYY
tn C13	dmm w
at 1.298	dmf 12579
np 97994	dseq
sw 37735.8	dres 1.0
fb not used	homo n
bs 16	temp 20.0
tpwr 61	PROCESSING
pw 5.3	lb 0.50
d1 0.700	wtfile
tof 1883.8	proc ft
nt 5120	fn 131072
ct 2048	math f
alock n	
gain 56	werr
il n	wexp wft
in n	wbs wft
dp y	wnt
hs nn	
DISPLAY	
sp -1256.9	
wp 26394.7	
vs 843	
sc 0	
wc 250	
hzmm 105.58	
is 250.00	
rfl 21120.2	
rfp 16088.3	
th 61	
ins 100.000	
nm ph	

128.192
129.000
127.803



(125 MHz, C₆D₆)

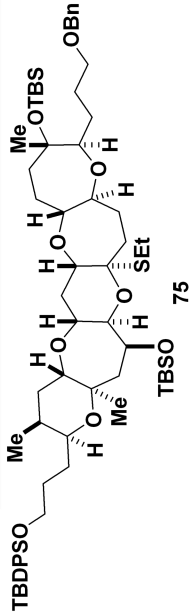
S166



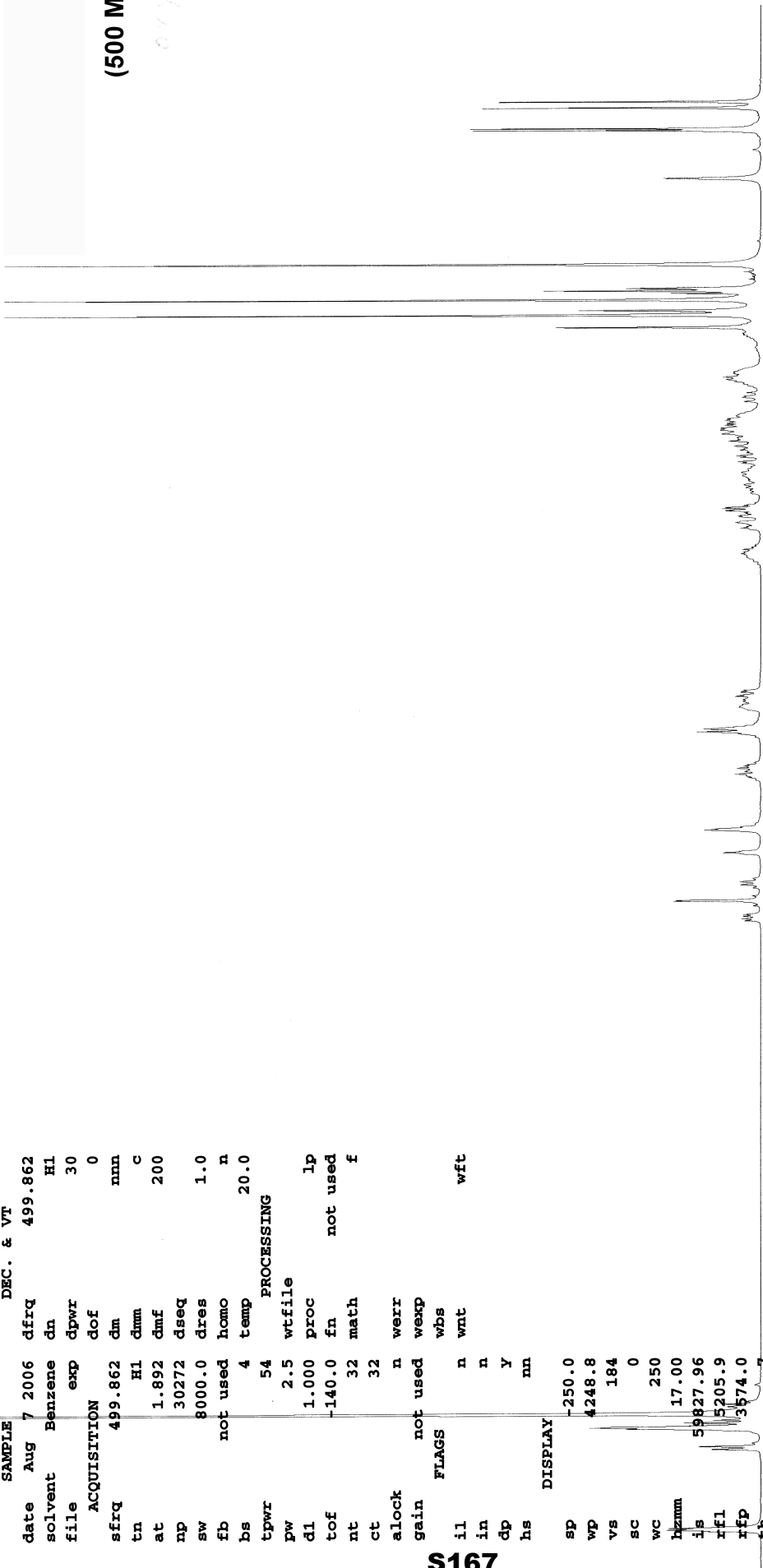
STANDARD PROTON PARAMETERS

exp1 s2pul
 SAMPLE DEC. & VT
 date Aug 7 2006 dfrq 499.862
 solvent Benzene dn H1
 file exp dpwr 30
 ACQUISITION dof 0
 sfrq 499.862 dm nnn
 tn H1 dnm c
 at 1.892 dmf 200
 np 30272 dseq 1.0
 sw 8000.0 dres n
 fb not used homo n
 bs 4 temp 20.0
 tpwr 54 PROCESSING
 pw 2.5 wtfile
 d1 1.000 proc lp
 tof -140.0 fn not used
 nt 32 math f
 ct 32
 alock n werr
 gain not used wexp
 FLAGS wbs
 il n wnt
 in n
 dp y
 hs nn

DISPLAY
 sp -250.0
 wp 4248.8
 vs 184
 sc 0
 wc 250
 Hzmm 17.00
 is 59827.96
 xfl 5205.9
 xfp 3574.0
 th 7



(500 MHz, C₆D₆)



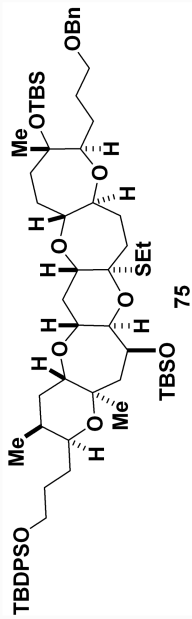
Chemical Shift (ppm)	Integration
3.78	1.9071
5.77	5.7785
1.00	1.00
1.01	2.01
1.93	3.11
3.07	3.07
1.18	1.18
1.15	1.15
1.22	1.22
1.42	1.42
1.19	1.19
1.11	1.11
4.76	4.76
1.19	1.19
1.11	1.11
12.08	12.08
12.83	12.83
4.25	4.25
5.52	5.52
5.94	5.94

STANDARD CARBON PARAMETERS

exp2 s2pul

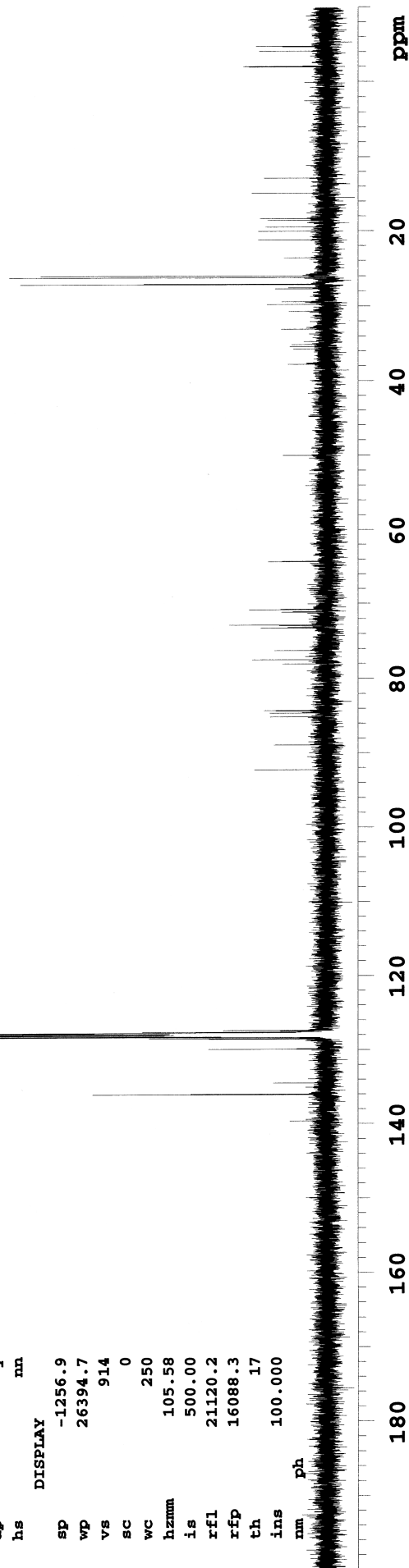
SAMPLE DEC. & VT
 date Aug 7 2006 dfrq 499.862
 solvent Benzene dn H1
 file exp 27
 ACQUISITION dof 0
 sfrq 125.704 dm YYY w
 tn C13 dnm 12579
 at 1.298 dmf
 np 97994 dseq
 sw 37735.8 dres 1.0
 fb not used homo n
 bs 16 temp 20.0
 tpwr 61 PROCESSING
 pw 5.3 lb 0.50
 d1 0.700 wtfile
 tof 1883.8 proc ft
 nt 5120 fn 131072
 ct 1760 math f
 alock n
 gain 56 werr
 FLAGS wft
 il n wbs wft
 in n wnt
 dp y
 hs nn

DISPLAY
 sp -1256.9
 wp 26394.7
 vs 914
 sc 0
 wc 250
 hzmm 105.58
 is 500.00
 rfl 21120.2
 rfp 16088.3
 th 17
 ins 100.000
 nm ph



(125 MHz, C₆D₆)

S168

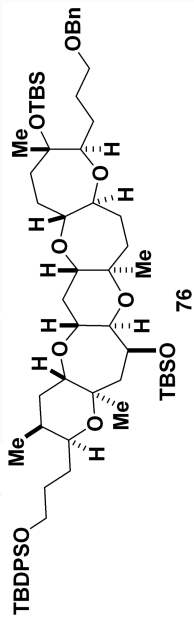


STANDARD PROTON PARAMETERS

```

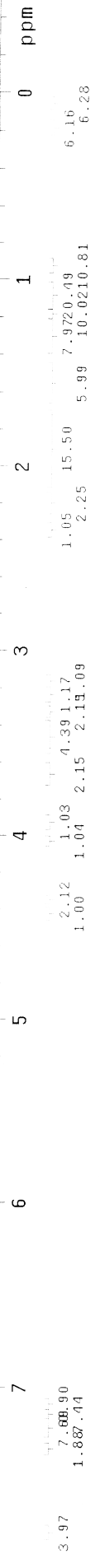
exp1 s2pul
SAMPLE
date Mar 19 2005
solvent Benzene
file ACQUISITION
sfrq 499.862
th H1
at 1.892
np 30272
sw 8000.0
fb not used
bs 4
tpwr 54
pw 2.6
d1 1.000
tof -140.0
nt 128
ct 128
alock n
gain not used
il n
in n
dp y
hs nn
SP -250.0
wp 4248.8
vs 167
sc 0
wc 250
hzm 17.00
ls 33.57
rf1 5205.9
rfp 3574.0
th 1.000
nm ph
DEC. & VT
dfrq 499.862
dn H1
dpwr 30
dof 0
dm nnn
dmm C
dmf 200
dseq 1.0
dres n
homo n
temp 20.0
wtfile
proc lp
fn not used
math f
werr
wexp wft
wbs wft
wnt wft

```



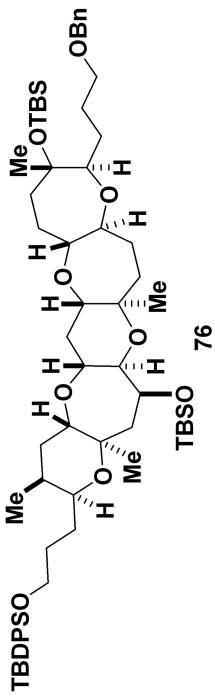
(500 MHz, C₆D₆)

Acid
oxyl



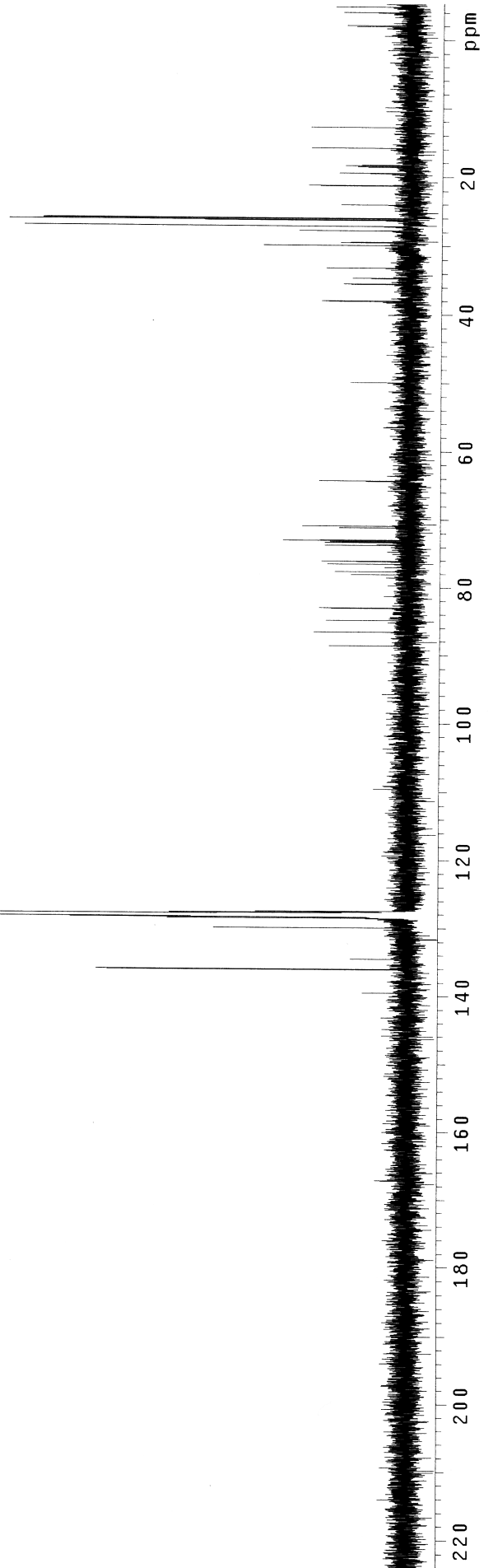
III-106 ebine 9437 kouzou 05/3/19
 Pulse Sequence: s2pu1
 Solvent: Benzene
 Temp. 20.0 C / 293.1 K
 User: 1-14-87
 INOVA-600 "inova600"

Relax. delay 0.800 sec
 Pulse 45.0 degrees
 Acq. time 0.867 sec
 Width 34632.0 Hz
 36864 repetitions
 OBSERVE C13, 150.8482663 MHz
 DECOUPLE H1, 599.9153002 MHz
 Power 39 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 0.5 Hz
 Gauss apodization 0.388 sec
 FT size 131072
 Total time 23 hr, 16 min, 20 sec



(

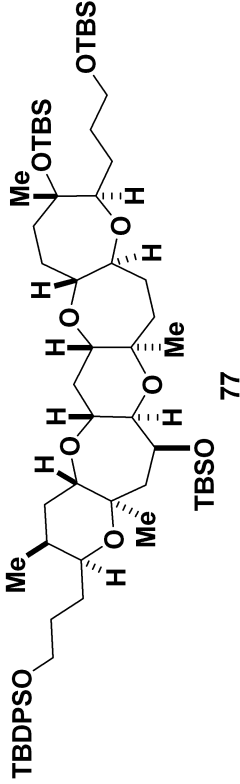
(125 MHz, C₆D₆)



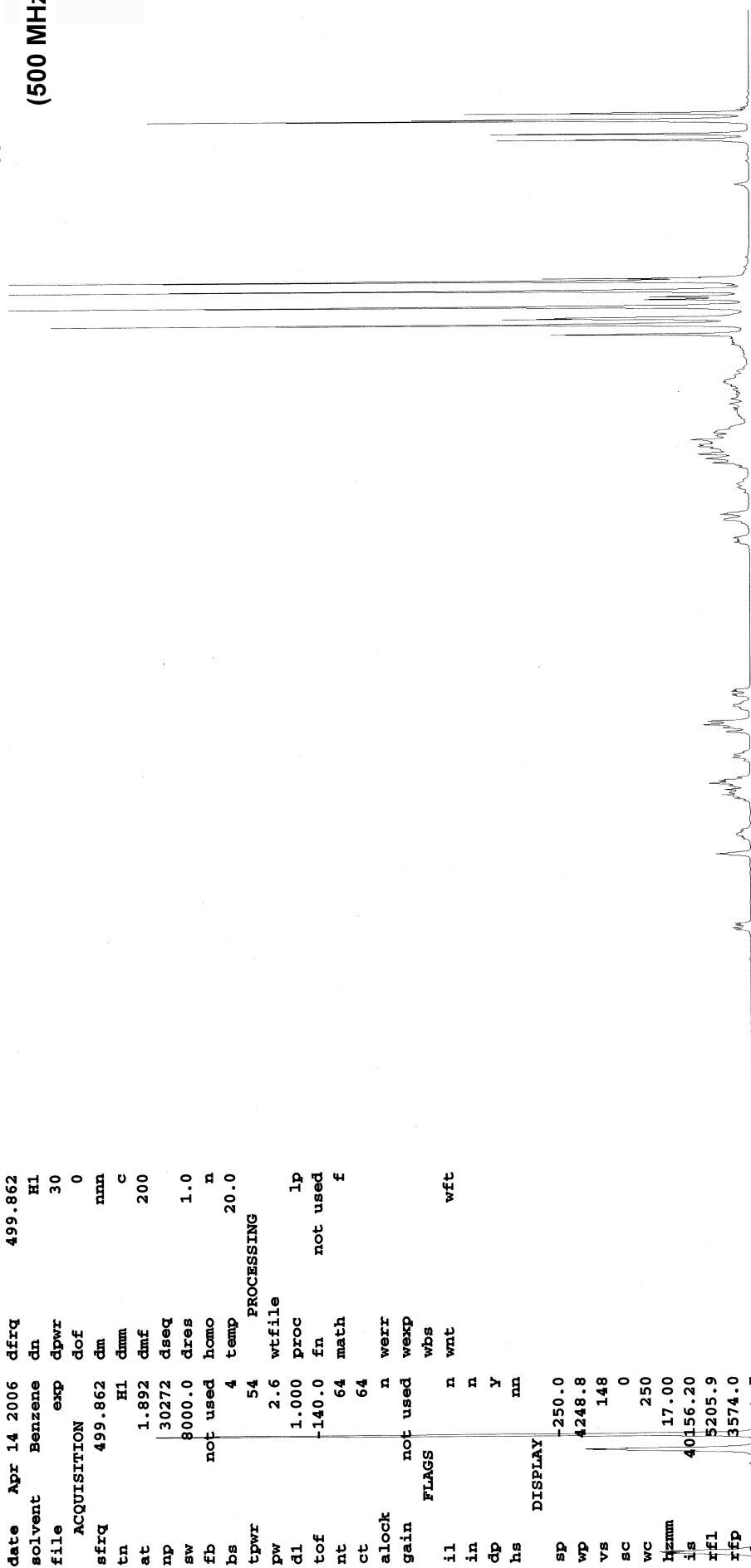
STANDARD PROTON PARAMETERS

exp1 s2pul

SAMPLE DEC. & VT
 date Apr 14 2006 dfrq 499.862
 solvent Benzene dn H1
 file exp 30
 ACQUISITION dof 0
 sfrq 499.862 dm nnn
 tn H1 dnm c
 at 1.892 dmf 200
 np 30272 dseq
 sw 8000.0 dres 1.0
 fb not used homo n
 bs 4 temp 20.0
 tpwr 54 PROCESSING
 pw 2.6 wtfile
 d1 1.000 proc lp
 tof -140.0 fn not used f
 nt 64 math
 ct 64
 alock n werr
 gain not used wexp
 FLAGS n wnt wft
 il n
 in n
 dp y
 hs nn
 DISPLAY
 sp -250.0
 wp 4248.8
 vs 148
 sc 0
 wc 250
 Hzmm 17.00
 is 40156.20
 rfl 5205.9
 rfp 3574.0
 th 7
 ins 1.000
 nm ph



(500 MHz, C₆D₆)



Chemical Shift (ppm)	Integration
3.65	0.97
5.38	0.96
1.04	1.04
1.00	1.00
3.090.98	3.090.98
1.17	1.02
12.10	2.02
6.60	6.60
3.528.913.22	3.528.913.22
2.8843	2.8843
2.3886	2.3886

STANDARD CARBON PARAMETERS

Pulse Sequence: s2pul

Solvent: Benzene

Temp. 20.0 C / 293.1 K

User: 1-14-87

INOVA-500 "varian"

Relax. delay 0.700 sec

Pulse 45.0 degrees

Acq. time 1.298 sec

Width 37735.8 Hz

256 repetitions

OBSERVE C13, 125.6896916 MHz

DECOUPLE H1, 499.8618491 MHz

Power 27 dB

continuously on

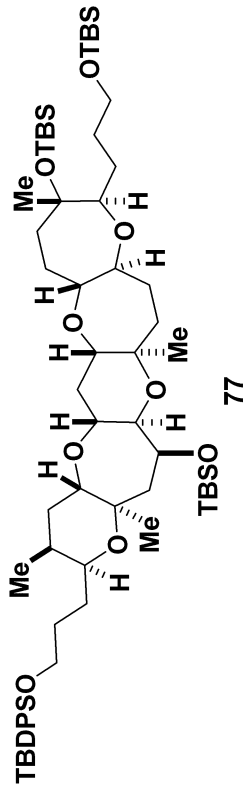
WALTZ-16 modulated

DATA PROCESSING

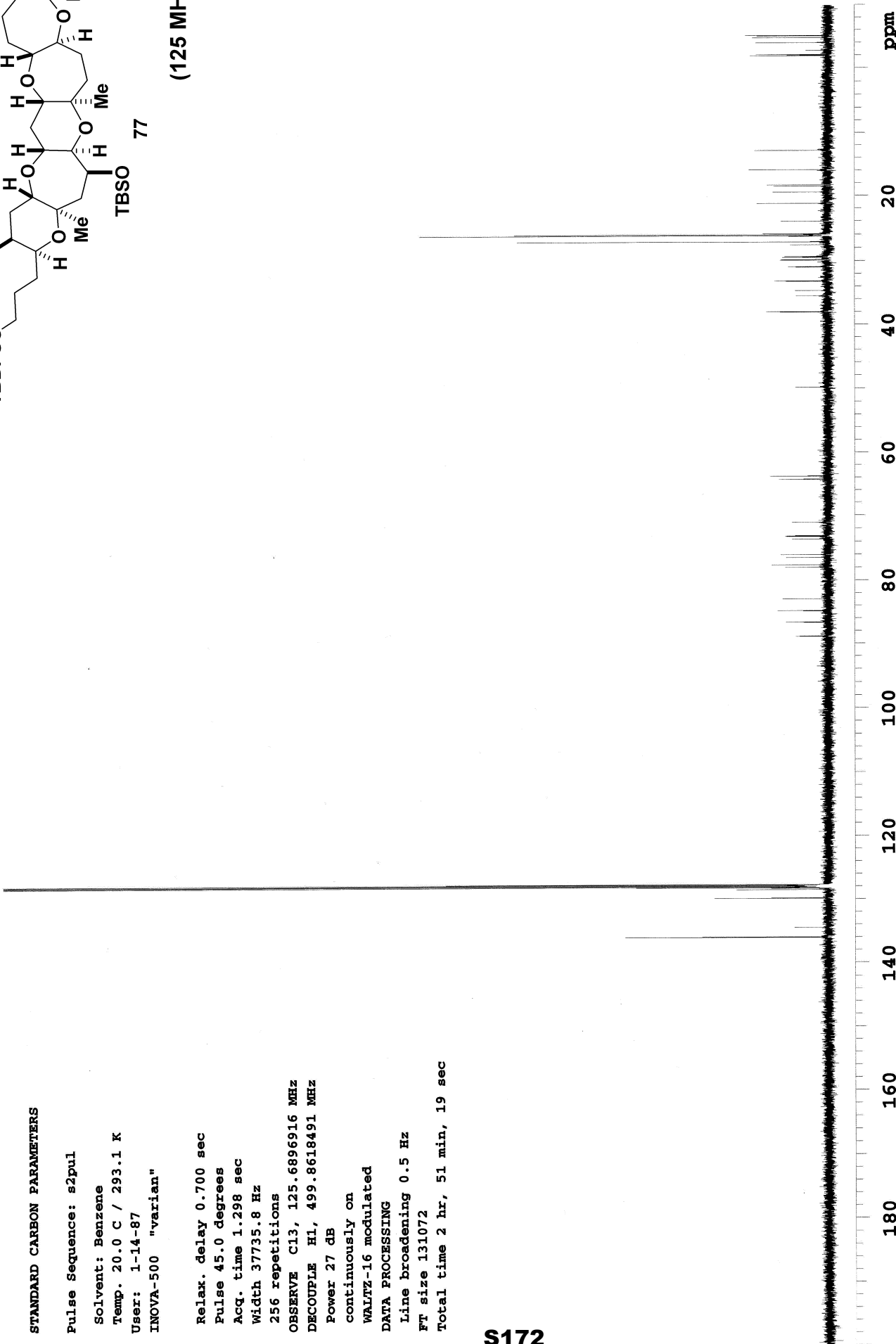
Line broadening 0.5 Hz

FT size 131072

Total time 2 hr, 51 min, 19 sec



(125 MHz, C₆D₆)



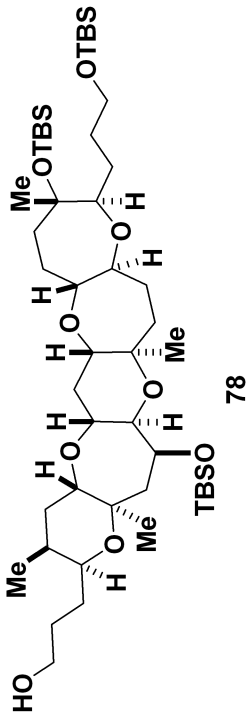
S172

STANDARD PROTON PARAMETERS

```

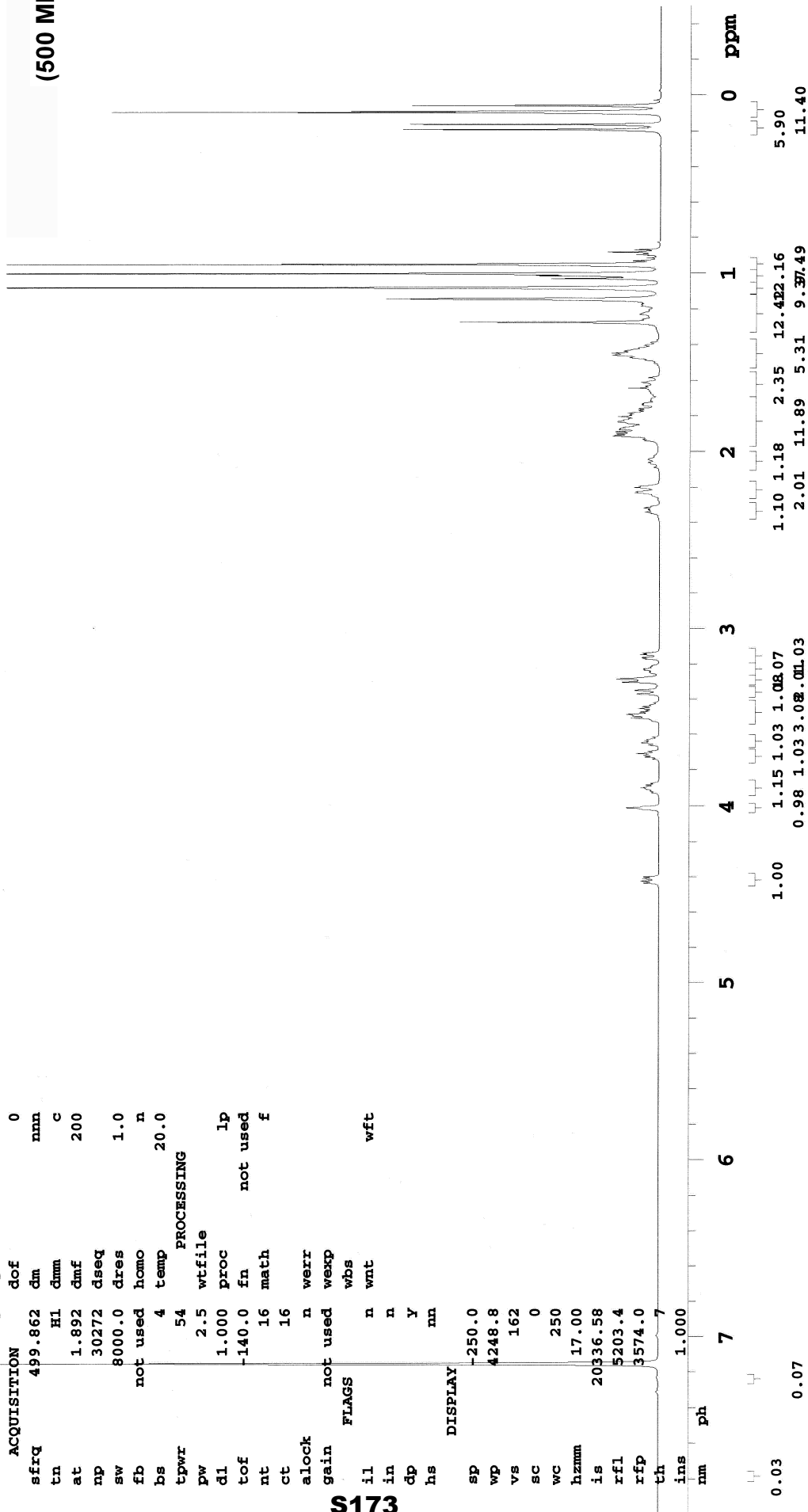
exp1 s2pul
SAMPLE
date Apr 19 2006 dfrq 499.862
solvent Benzene d1 H1
file exp 30
ACQUISITION
sfrq 499.862 dm nnn
tn H1 dnm c
at 1.892 dmf 200
np 30272 dseq 1.0
sw 8000.0 dres n
fb not used homo n
bs 4 temp 20.0
tpwr 54 PROCESSING
pw 2.5 wtfile
d1 1.000 proc lp
tof -140.0 fn not used
nt 16 math f
ct 16
alock n werr
gain not used wexp
FLAGS il n n wft
in n n
dp y
hs nn
DISPLAY
sp -250.0
wp 4248.8
vs 162
sc 0
wc 250
hzmm 17.00
is 20336.58
xfl 5203.4
xfp 3574.0
ch 7
ins 1.000
nm ph

```



78

(500 MHz, C₆D₆)

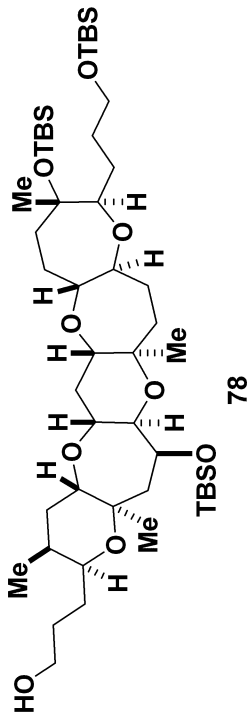


S173

STANDARD CARBON PARAMETERS

```

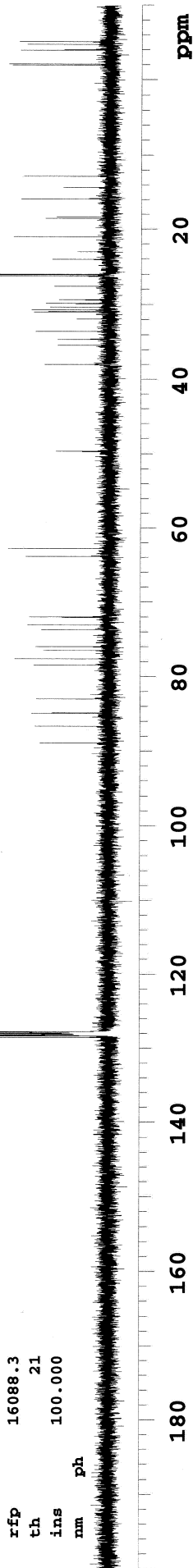
exp3 s2pul
SAMPLE
date Apr 19 2006 dfrq 499.862
solvent Benzene dn H1
file exp dpwr 27
ACQUISITION dof 0
sfrq 125.704 dm YYY
tn C13 dmm w
at 1.298 dmf 12579
np 97994 dseq
sw 37735.8 dres 1.0
fb not used homo n
bs 32 temp 20.0
tpwr 61 PROCESSING
pw 5.3 lb 0.50
d1 0.700 wfile
tof 1883.8 proc ft
nt 5120 fn 131072
ct 576 math f
alock n
gain 56 werr
FLAGS wexp wft
il n wbs wft
in n wnt
dp y
hs nn
DISPLAY
sp -1256.9
wp 26394.7
vs 405
sc 0
wc 250
hzmm 105.58
is 500.00
rfl 21119.6
rfp 16088.3
th 21
ins 100.000
nm ph
  
```



78

(125 MHz, C₆D₆)

S174

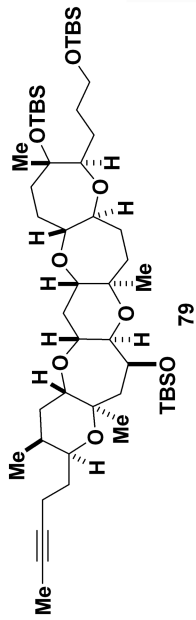


STANDARD PROTON PARAMETERS

exp1 s2pul

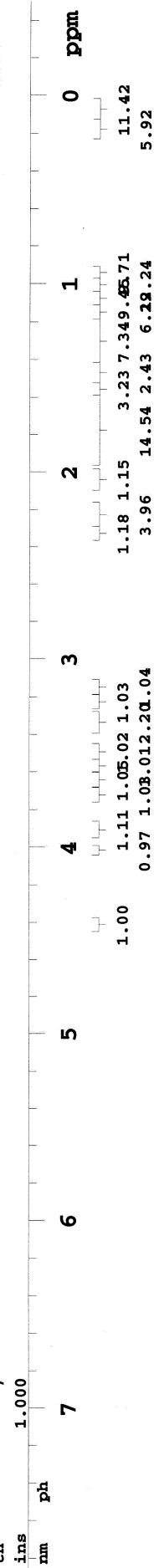
SAMPLE DEC. & VT
 date Apr 21 2006 dfrq 499.862
 solvent Benzene dn H1
 file exp dpwr 30
 ACQUISITION dof 0
 sfrq 499.862 dm nnn
 tn H1 dmm c
 at 1.892 dmf 200
 np 30272 dseq
 sw 8000.0 dres 1.0
 fb not used homo n
 bs 4 temp 20.0
 tpwr 54 PROCESSING
 pw 2.5 wtfile
 dl 1.000 proc lp
 tof -140.0 fn not used
 nt 64 math f
 ct 64
 alock n werr
 gain not used wexp
 FLAGS wbs wnt wft
 il n
 in n
 dp Y
 hs nn
 DISPLAY
 sp -250.0
 wp 4248.8
 vs 139
 sc 0
 wc 250
 hzmm 17.00
 is 26265.24
 rfl 5205.4
 rfp 3574.0
 th 7

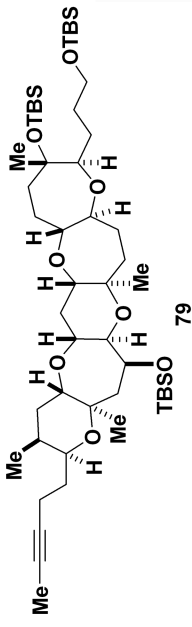
(500 MHz, C₆D₆)



79

S175





(125 MHz, C₆D₆)

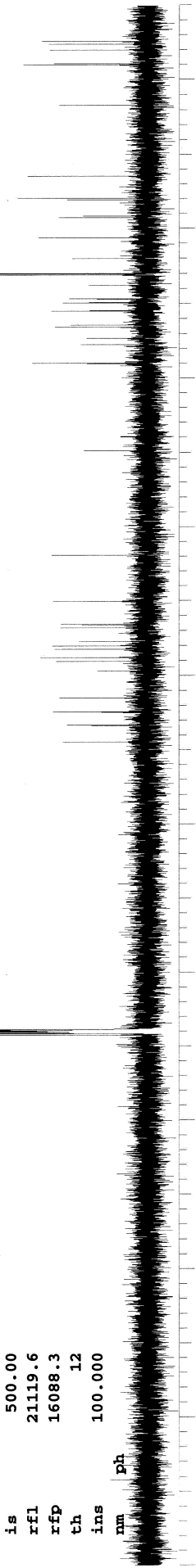
STANDARD CARBON PARAMETERS

```

exp3 s2pul
SAMPLE
date Apr 21 2006 dfrq 499.862
solvent Benzene dn H1
file exp dpwr 27
ACQUISITION dof 0
sfrq 125.704 dm YYY
tn C13 dmm w
at 1.298 dmf 12579
np 97994 dseq
sw 37735.8 dres 1.0
fb not used homo n
bs 16 temp 20.0
tpwr 61 PROCESSING
pw 5.3 lb 0.50
dl 0.700 wfile
tof 1883.8 proc ft
nt 5120 fn 131072
ct 656 math f
alock n
gain 56 werr
flags wexp wft
il n wbs wft
in n wnt
dp y
hs mn
DISPLAY
sp -1256.9
wp 26394.7
vs 729
sc 0
wc 250
hzmm 105.58
is 500.00
rfl 21119.6
rfp 16088.3
th 12
ins 100.000
nm
ph
  
```

S176

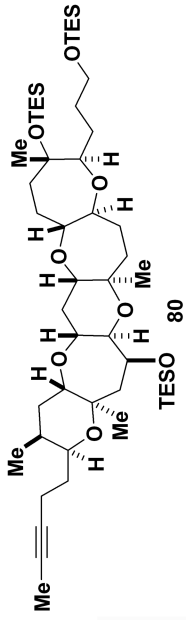
180 160 140 120 100 80 60 20 ppm



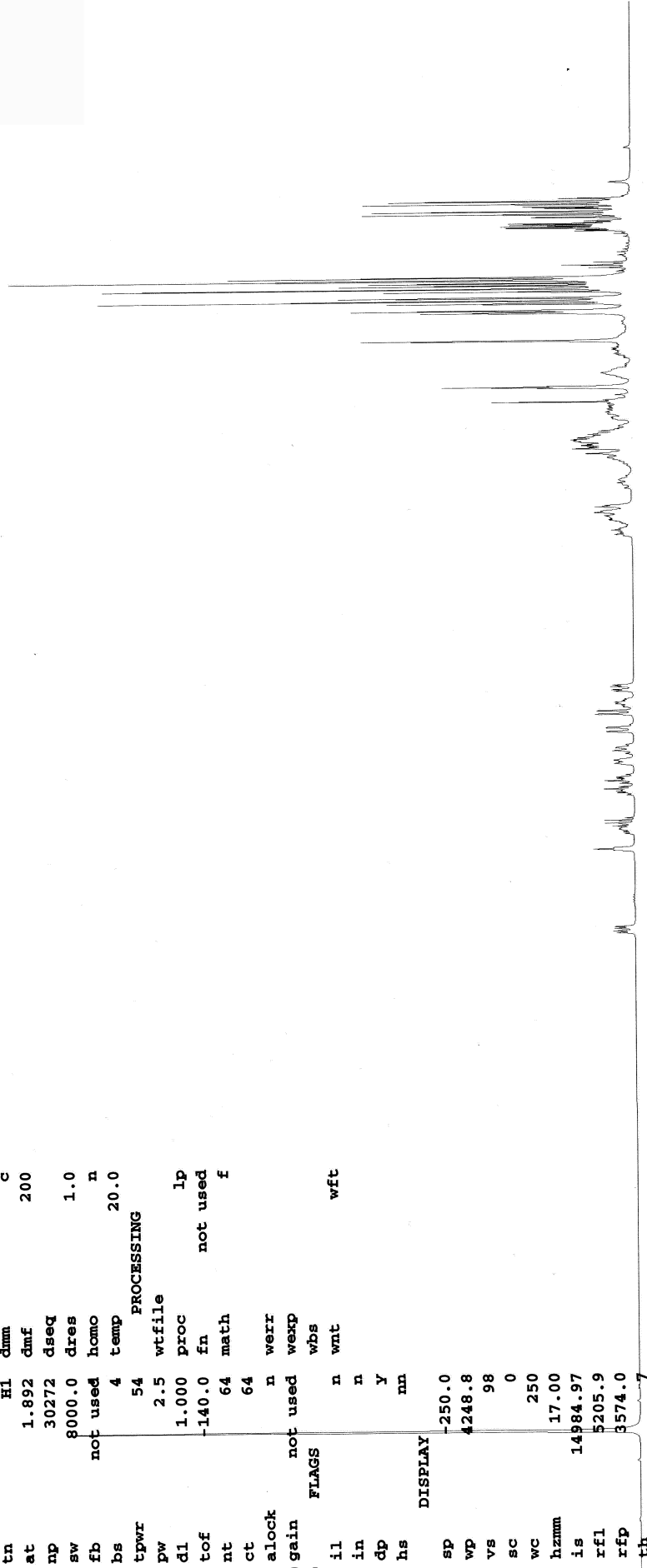
STANDARD PROTON PARAMETERS

exp1 s2pul

SAMPLE DEC. & VT
 date Apr 25 2006 dfrq 499.862
 solvent Benzene dn H1
 file exp dpwr 30
 ACQUISITION dof 0
 sfrq 499.862 dm nnn
 tn H1 dmm c
 at 1.892 dmf 200
 np 30272 dseq
 sw 8000.0 dres 1.0
 fb not used homo n
 bs 4 temp 20.0
 tpwr 54 PROCESSING
 pw 2.5 wtfile lp
 dl 1.000 proc
 tof -140.0 fn not used f
 nt 64 math
 ct 64
 alock n werr
 gain not used wexp
 FLAGS n wnt wft
 il n
 in y
 dp nn
 hs
 DISPLAY
 sp -250.0
 wp 4248.8
 vs 98
 sc 0
 wc 250
 hzmm 17.00
 is 14984.97
 rfl 5205.9
 rfp 3574.0
 th 7



(500 MHz, C₆D₆)



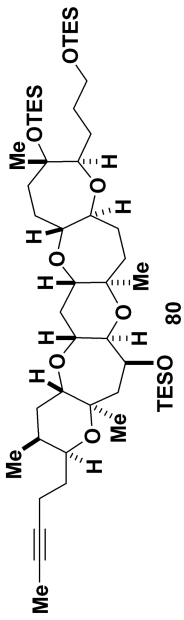
ins 1.000
 nm ph 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
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 23
 24
 25
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 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100

STANDARD CARBON PARAMETERS

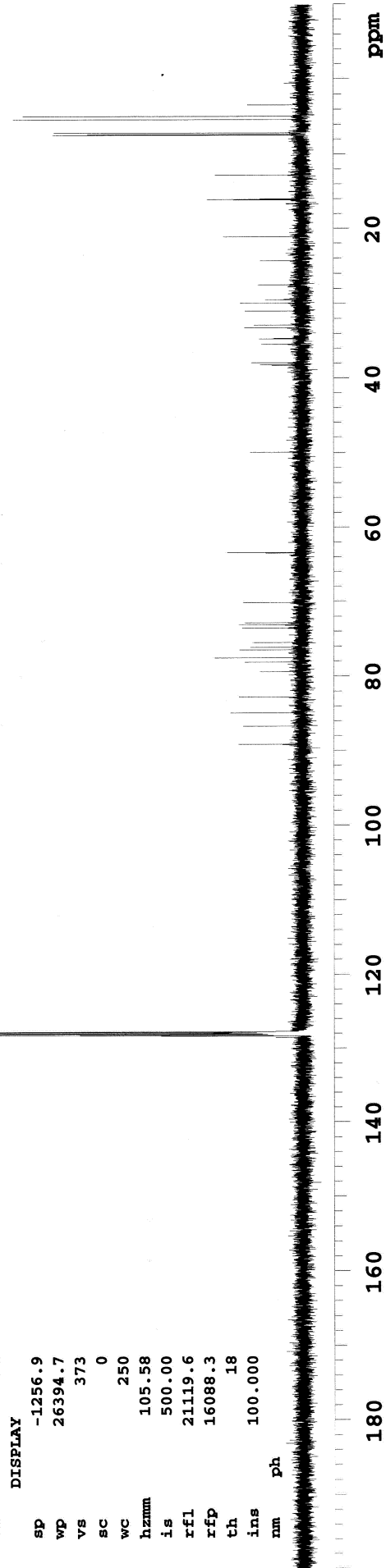
exp3 s2pul

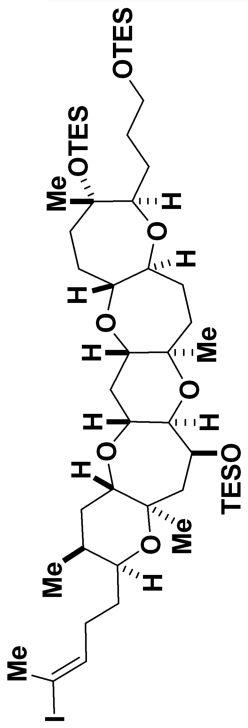
SAMPLE	DEC. & VT
date Apr 25 2006	dfrq 499.862
solvent Benzene	dn H1
file exp	dpwr 27
ACQUISITION	dof 0
sfrq 125.704	dm YYY
tn C13	dmm w
at 1.298	dmf 12579
np 97994	dseq 1.0
sw 37735.8	dres n
fb not used	homo n
bs 16	temp 20.0
tpwr 61	PROCESSING
pw 5.3	lb 0.50
d1 0.700	wfile ft
tof 1883.8	proc 131072
nt 5120	fn f
ct 512	math
alock n	
gain 56	werr wft
il	wexp wft
in n	wbs
dp n	wnt
hs y	
DISPLAY	
sp -1256.9	
wp 26394.7	
vs 373	
sc 0	
wc 250	
hzmm 105.58	
is 500.00	
rfl 21119.6	
rfp 16088.3	
th 18	
ins 100.000	
nm ph	

(125 MHz, C₆D₆)



S178





81

(500 MHz, C₆D₆)

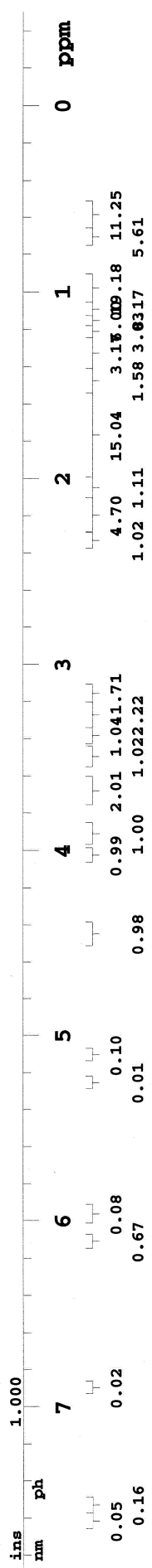
STANDARD PROTON PARAMETERS

exp3 s2pul

SAMPLE DEC. & VT
 date Apr 28 2006 dfrq 499.862
 solvent Benzene dn H1
 file exp dpwr 30
 ACQUISITION dof 0
 sfrq 499.862 dm nnn
 tn H1 dmm c
 at 1.892 dmf 200
 np 30272 dseq
 sw 8000.0 dres 1.0
 fb not used homo n
 bs 4 temp 20.0
 tpwr 54 PROCESSING
 pw 2.5 wtfile
 dl 1.000 proc lp
 tof -140.0 fn not used
 nt 64 math f
 ct 64
 alock n verr
 gain not used wexp
 FLAGS wbs
 il n wnt wft
 in n
 dp y
 hs nn

DISPLAY

sp -250.3
 wp 4248.8
 vs 115
 SC 0
 WC 250
 hzmm 17.00
 is 7889.77
 rfl 1640.6
 rfp 0
 th 7

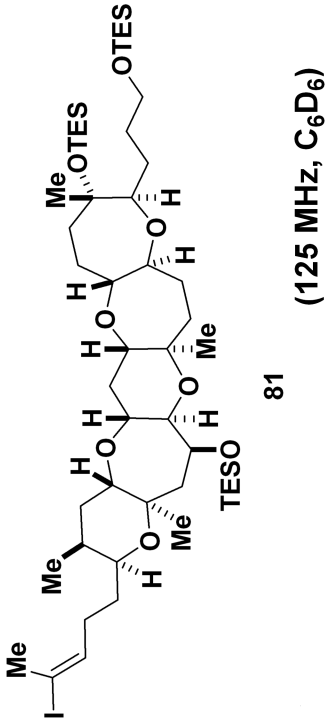
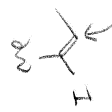


S179

STANDARD CARBON PARAMETERS

exp4 s2pul

SAMPLE	DEC. & VT
date Apr 28 2006	dfrq 499.862
solvent Benzene	dn H1
file exp	dpwr 27
ACQUISITION	dof 0
sfrq 125.704	dm YYY
tn C13	dmm w
at 1.298	dmf 12579
np 97994	dseq
sw 37735.8	dres 1.0
fb not used	homo n
bs 16	temp 20.0
tpwr 61	PROCESSING
pw 5.3	lb 0.50
d1 0.700	wtfile
tof 1883.8	proc ft
nt 5120	fn 131072
ct 640	math f
alock n	
gain 56	werr
il n	wexp wft
in n	wbs wft
dp y	wnt
hs nn	
DISPLAY	
sp -1256.9	
wp 26394.7	
vs 482	
sc 0	
wc 250	
hzmm 105.58	
is 500.00	
rf1 21119.6	
rfp 16088.3	
th 12	
ins 100.000	
nm	ph

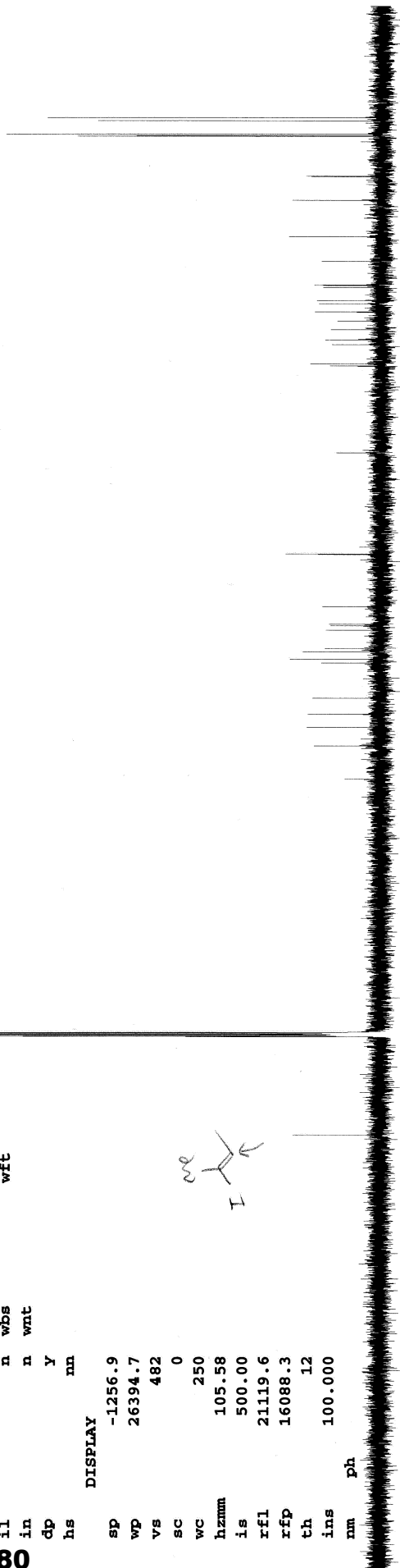


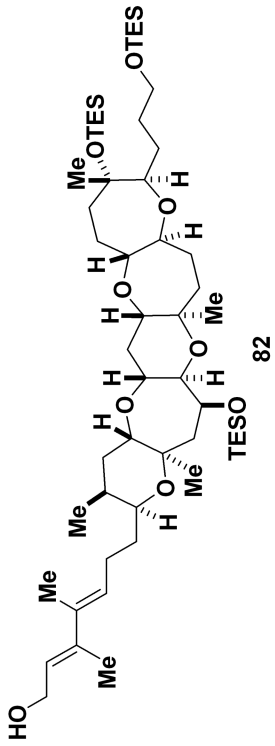
81

(125 MHz, C₆D₆)

S180

180 160 140 120 100 80 60 40 20 ppm



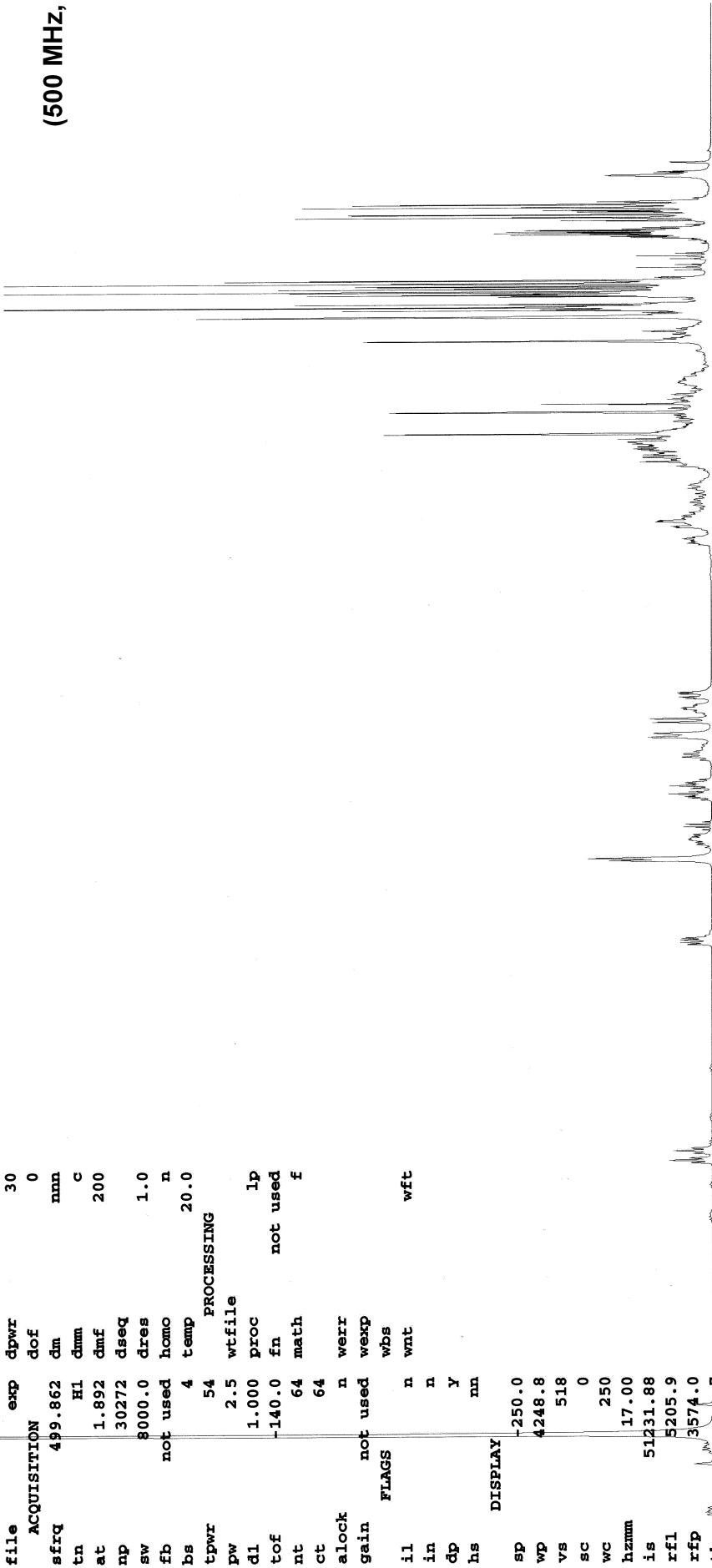


(500 MHz, C₆D₆)

STANDARD PROTON PARAMETERS

```

exp3 s2pul
SAMPLE
date May 2 2006 dfrq 499.862 DEC. & VT
solvent Benzene dn H1
file exp 30
ACQUISITION dof 0
sfrq 499.862 dm nnn
tn H1 dmm c
at 1.892 dmf 200
np 30272 dseq
sw 8000.0 dres 1.0
fb not used homo n
bs 4 temp 20.0
tpwr 54 PROCESSING
pw 2.5 wtfile
dl 1.000 proc lp
tof -140.0 fn not used
nt 64 math f
ct 64
alock n werr
gain not used wexp
flags n wnt wft
il n
in n
dp y
hs nn
DISPLAY
sp -250.0
wp 4248.8
vs 518
sc 0
wc 250
hzmm 17.00
is 51231.88
rfl 5205.9
rfp 3574.0
th 7
ins 1.000
nm ph
  
```

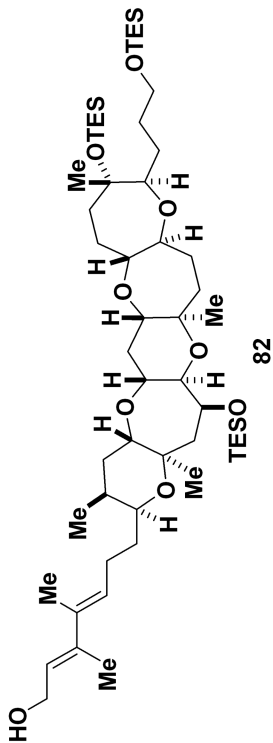


Chemical Shift (ppm)	Integration
0.11	0.720.06
0.09	0.76 0.06
1.00	1.00
2.60	0.871.31.1D.05
1.13	0.89 1.887.16
1.05	20.75
5.15	2.40 2.30140.86.95
3.82	3.82 789.0L.8811.47

STANDARD CARBON PARAMETERS

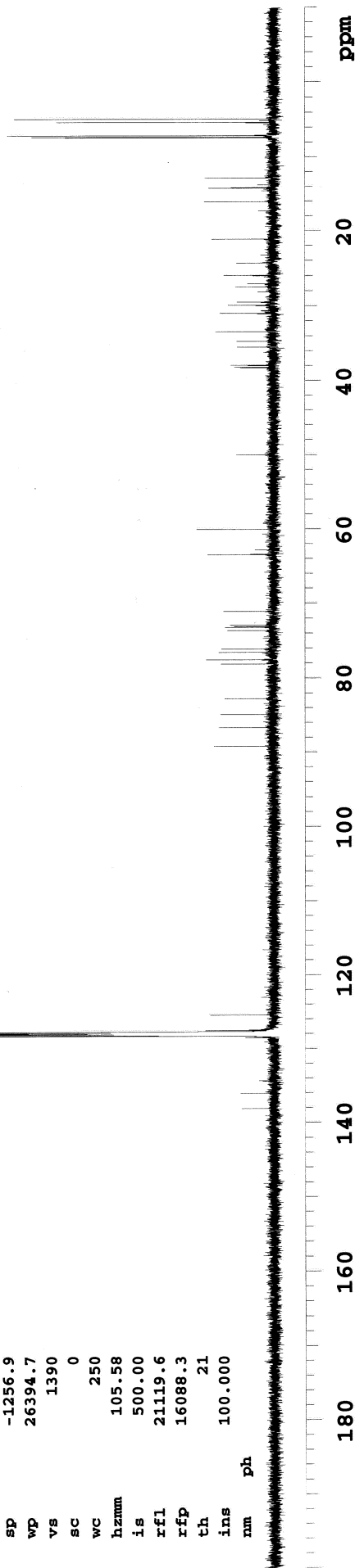
```

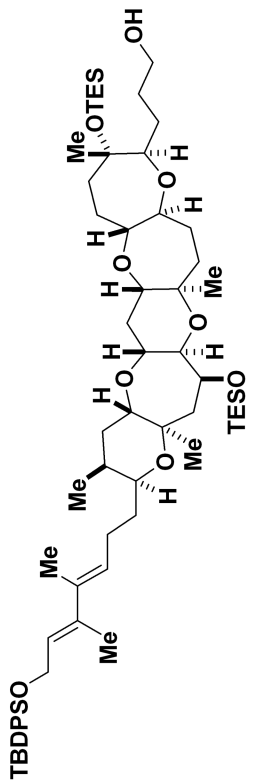
exp4 s2pul
SAMPLE DEC. & VT
date May 2 2006 dfrq 499.862
solvent Benzene dn H1
file exp 27
ACQUISITION dof 0
sfrq 125.704 dm YYY
tn C13 dmm w
at 1.298 dmf 12579
np 97994 dseq
sw 37735.8 dres 1.0
fb not used homo n
bs 16 temp 20.0
tpwr 61 PROCESSING
pw 5.3 lb 0.50
dl 0.700 wtfile
tof 1883.8 proc ft
nt 20000 fn 131072
ct 16000 math f
alock n
gain 56 werr
flags wexp wft
il n wbs wft
in n wnt
dp y
hs nn
DISPLAY
sp -1256.9
wp 26394.7
vs 1390
sc 0
wc 250
hzmm 105.58
is 500.00
rfl 21119.6
rfp 16088.3
th 21
ins 100.000
nm ph
  
```



(125 MHz, C₆D₆)

S182





(500 MHz, C₆D₆)

83

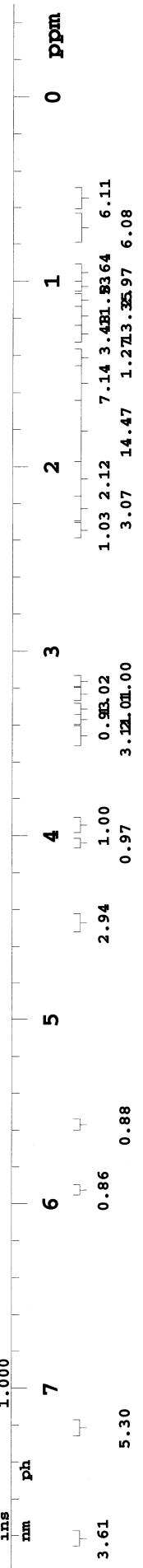
STANDARD PROTON PARAMETERS

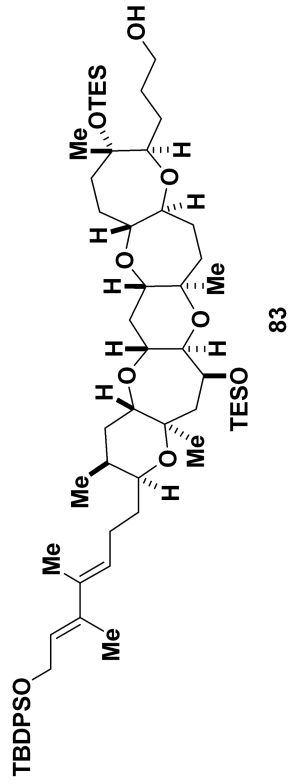
exp3 s2pul

SAMPLE DEC. & VT
 date May 30 2006 dfrq 499.862
 solvent Benzene d1 H1
 file exp dpwr 30
 ACQUISITION dof 0
 sfrq 499.862 dm nnn
 tn H1 dnm c
 at 1.892 dmf 200
 np 30272 dseq
 sw 8000.0 dres 1.0
 fb not used homo n
 bs 4 temp 20.0
 tpwr 54 PROCESSING
 pw 2.5 wtfile
 d1 1.000 proc lp
 tof -140.0 fn not used
 nt 64 math f
 ct 64
 alock n werr
 gain not used wexp
 FLAGS wbs wft
 il n wnt
 in n
 dp y
 hs nn

DISPLAY

sp -250.3
 wp 4248.8
 vs 134
 SC 0
 WC 250
 hzmm 17.00
 fs 24335.86
 ffl 1640.6
 xfp 0
 ch 7





83

(125 MHz, C₆D₆)

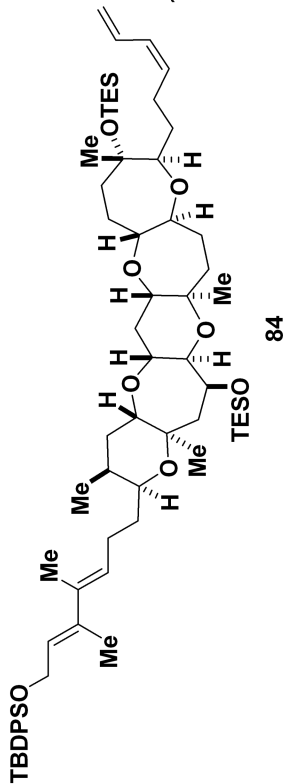
STANDARD CARBON PARAMETERS

```

exp4 s2pul
SAMPLE
date May 30 2006 dfrq 499.862 DEC. & VT
solvent Benzene dn H1
file exp 27
ACQUISITION dof 0
sfrq 125.704 dm YY
tn C13 dmm w
at 1.298 dmf 12579
np 97994 dseq
sw 37735.8 dres 1.0
fb not used homo n
bs 16 temp 20.0
tpwr 61 PROCESSING
pw 5.3 lb 0.50
d1 0.700 wfile
tof 1883.8 proc ft
nt 5120 fn 131072
ct 512 math f
alock n
gain 56 werr
il il n wexp wft
in in n wbs wft
dp dp y
hs hs nn
DISPLAY
sp -1256.9
wp 26394.7
vs 572
sc 0
wc 250
hzmm 105.58
is 500.00
rfl 21119.6
rfp 16088.3
th 10
ins 100.000
nm ph
  
```

S184





84

(125 MHz, C₆D₆)

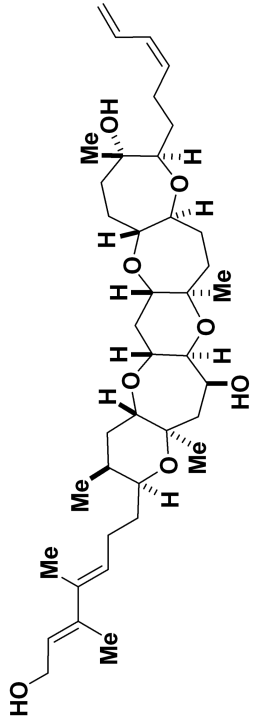
STANDARD CARBON PARAMETERS

```

exp3 s2pul
SAMPLE DEC. & VT
date Jun 2 2006 dfrq 499.862
solvent Benzene dn H1
file exp dpwr 27
ACQUISITION dof 0
sfrq 125.704 dm YYY
tn C13 dmm w
at 1.298 dmf 12579
np 97994 dseq
sw 37735.8 dres 1.0
fb not used homo n
bs 16 temp 20.0
tpwr 61 PROCESSING
pw 5.3 lb 0.50
dl 0.700 wtfile
tof 1883.8 proc ft
nt 5120 fn 131072
ct 1600 math f
alock n
gain 56 werr
flags il n wexp wft
in in n wbs wft
dp dp y
hs nn
DISPLAY
sp -1256.9
wp 26394.7
vs 1120
sc 0
wc 250
hzmm 105.58
is 250.00
rfl 21119.6
rfp 16088.3
th 14
ins 100.000
nm ph
  
```

S186





85

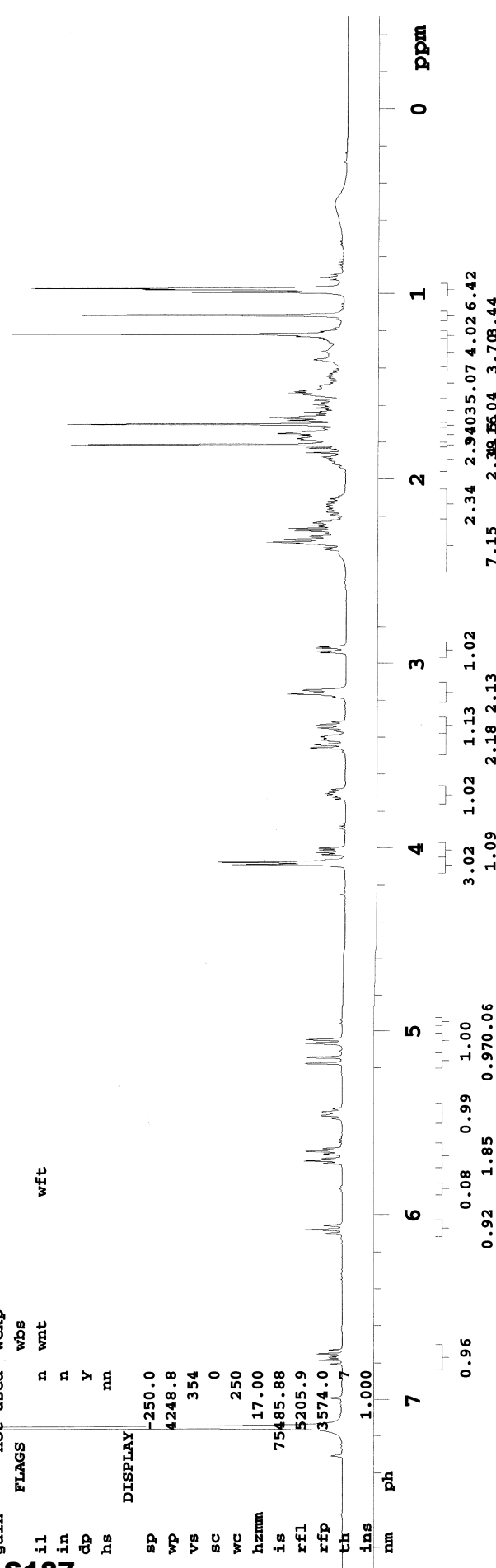
(500 MHz, C₆D₆)

STANDARD PROTON PARAMETERS

```

exp1 s2pul
SAMPLE
date Jun 3 2006 dfrq 499.862 DEC. & VT
solvent Benzene dn H1
file exp 30
ACQUISITION dof 0
sfrq 499.862 dm nnn
tn H1 dmm c
at 1.892 dmf 200
np 30272 dseq
sw 8000.0 dres 1.0
fb not used hmo n
bs 4 temp 20.0
tpwr 54 PROCESSING
pw 2.5 wfile
d1 1.000 proc lp
tof -140.0 fn not used
nt 64 math f
ct 64
alock n werr
gain not used wexp
FLAGS n wnt wft
il n
in n
dp y
hs nn
DISPLAY
sp -250.0
wp 4248.8
vs 354
sc 0
wc 250
hzmm 17.00
is 75485.88
rfl 5205.9
rfp 3574.0
th 7
ins 1.000
nm ph

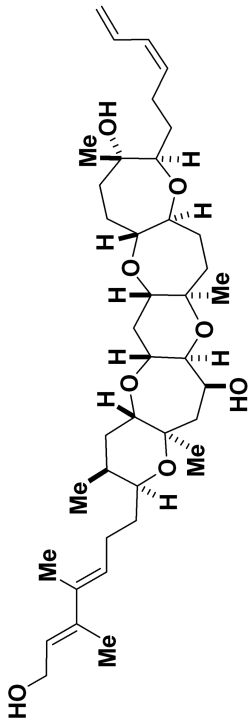
```



STANDARD CARBON PARAMETERS

```

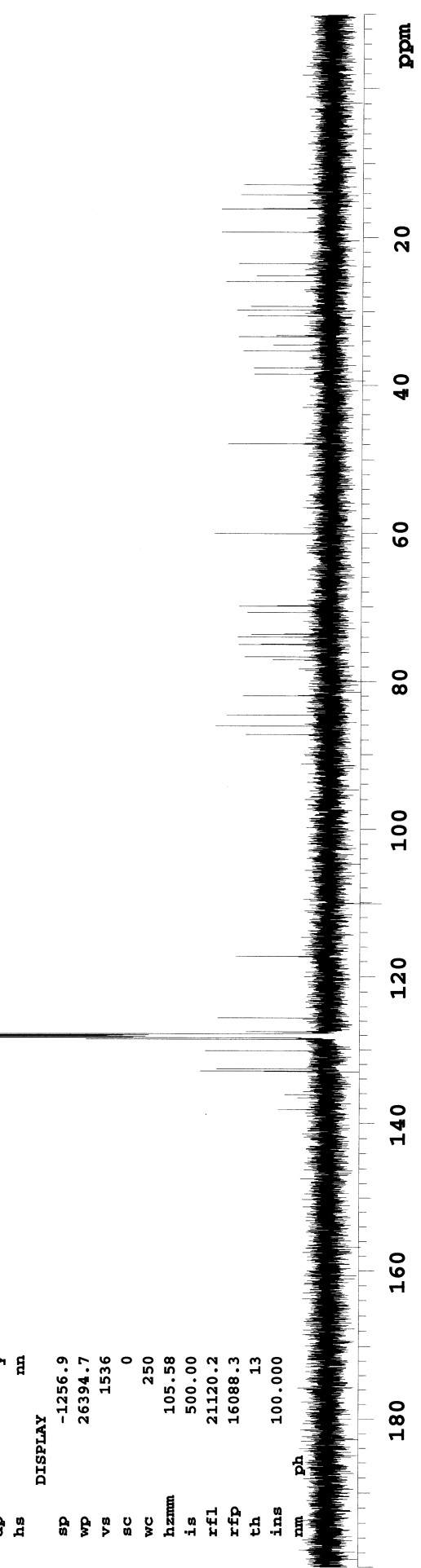
exp5 s2pul
SAMPLE
date Jun 3 2006 dfreq 499.862
solvent Benzene dn H1
file exp dpwr 27
ACQUISITION dof 0
sfrq 125.704 dm YYY
tn C13 dmm w
at 1.298 dmf 12579
np 97994 dseq
sw 37735.8 dres 1.0
fb not used homo n
bs 32 temp 20.0
tpwr 61 PROCESSING
pw 5.3 lb 0.50
d1 0.700 wtfile
tof 1883.8 proc ft
nt 5120 fn 131072
ct 2432 math f
alock n
gain 56 werr
flags il n wexp wft
in in n wbs wft
dp dp y
hs hs nn
DISPLAY
sp -1256.9
wp 26394.7
vs 1536
sc 0
wc 250
hzmm 105.58
is 500.00
rfl 21120.2
rfp 16088.3
th 13
ins 100.000
nm ph
  
```

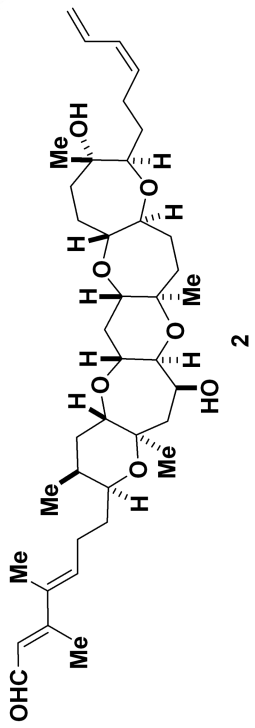


85

(125 MHz, C₆D₆)

S188





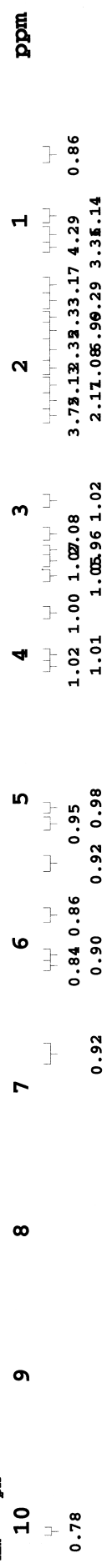
(500 MHz, C₆D₆)

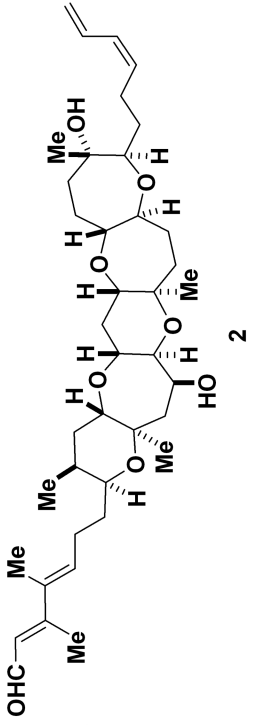
STANDARD PROTON PARAMETERS

```

exp3 s2pul
SAMPLE DEC. & VT
date Jun 19 2006 dfrq 499.862
solvent Benzene dn H1
file exp dpwr 30
ACQUISITION dof 0
sfrq 499.862 dm nnn
tn H1 dmm c
at 1.892 dmf 200
np 30272 dseq
sw 8000.0 dres 1.0
fb not used homo n
bs 4 temp 20.0
tpwr 54 PROCESSING
pw 2.5 wtfile
dl 1.000 proc lp
tof -140.0 fn not used f
nt 128 math
ct 128
alock n werr
gain not used wexp
flags n wnt wft
il n
in n
dp y
hs mn
DISPLAY
sp -250.0
wp 5498.4
vs 103
sc 0
wc 250
hzmm 21.99
is 30517.58
rf1 5203.9
rfq 3574.0
th
ins 1.000
nm ph

```





(125 MHz, C₆D₆)

STANDARD CARBON PARAMETERS

```

exp3  s2pul
SAMPLE
date   Jun 19 2006      DEC. & VT
solvent Benzene       dfrq   499.862
file   exp             dn      H1
ACQUISITION
sfrq   125.704        dpwr   27
tn     C13            dof    0
at     1.298          dm      YYY
np     97994          dmm    w
sw     37735.8        dmf    12579
fb     not used      dseq   1.0
bs     32             dres   n
tpwr   61            homo   20.0
pw     5.3           temp   20.0
dl     0.700         PROCESsing
tof    1883.8        lb      0.50
nt     20000         wtfile
ct     18816         proc   ft
alock  n             fn     131072
gain   56            math   f
flags  56            werr
il     n             wexp
in     n             wbs   wft
cp     Y             wnt
hs     nn
DISPLAY
sp     -1256.9
wp     26394.7
vs     3617
sc     0
wc     250
hzmm   105.58
is     500.00
rf1    21120.2
rfp    16088.3
th     101
ins    100.000
nm     ph
  
```

127.808
128.192
129.000

S190

