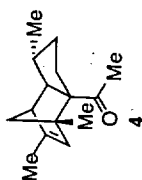


S1



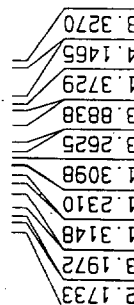
ol006292q
Rawal

Current Data Parameters
NAME tjr11-xx
EXPNO 1
PROCNO 1

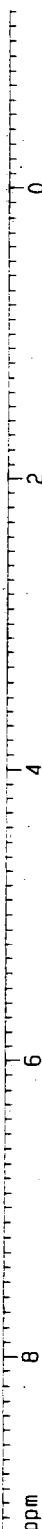
F2 - Acquisition Parameters
Date_ 990712
Time 17.18
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zg
TD 32768
SOLVENT CDCl3
NS 4
DS 0
SWH 5208.333 Hz
FIDRES 0.158946 Hz
AQ 3.1457779 sec
RG 256
OW 96.000 usec
DE 4.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 5.00 usec
SF01 500.1320118 MHz
NUC1 1H
PL1 0.00 dB

F2 - Processing parameters
SI 16384
SF 500.1300110 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 9.208 ppm
F1 4604.98 Hz
F2P -1.206 ppm
F2 -603.36 Hz
PPMCM 0.52070 ppm/cm
HZCM 260.41669 Hz/cm

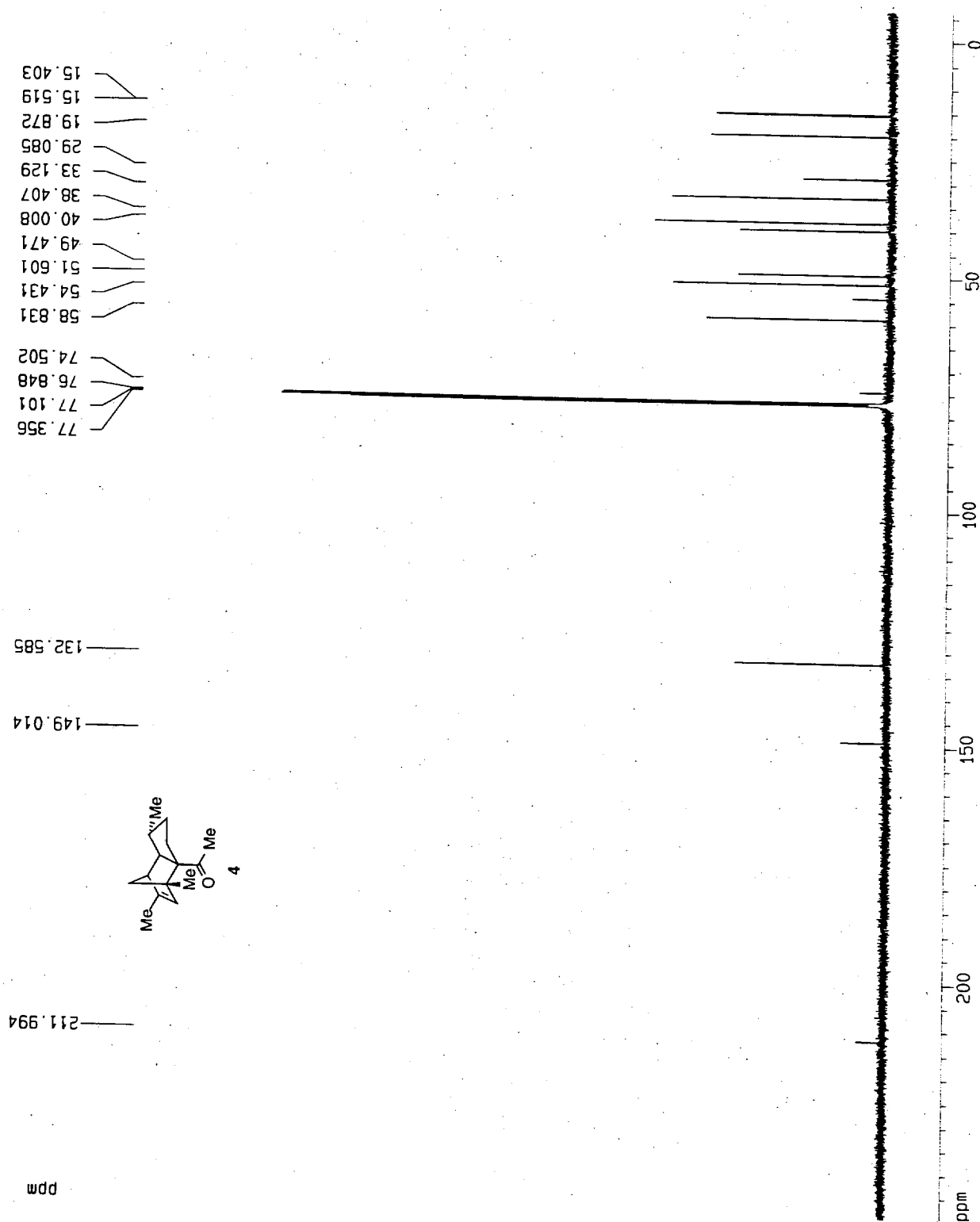


Integral



S2

97/10/17, #5, 122.5 mg



Current Data Parameters

NAME	tjrlc-xx
EXPNO	1
PROCNO	1

F2 - Acquisition Parameters

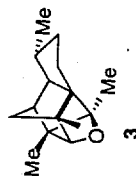
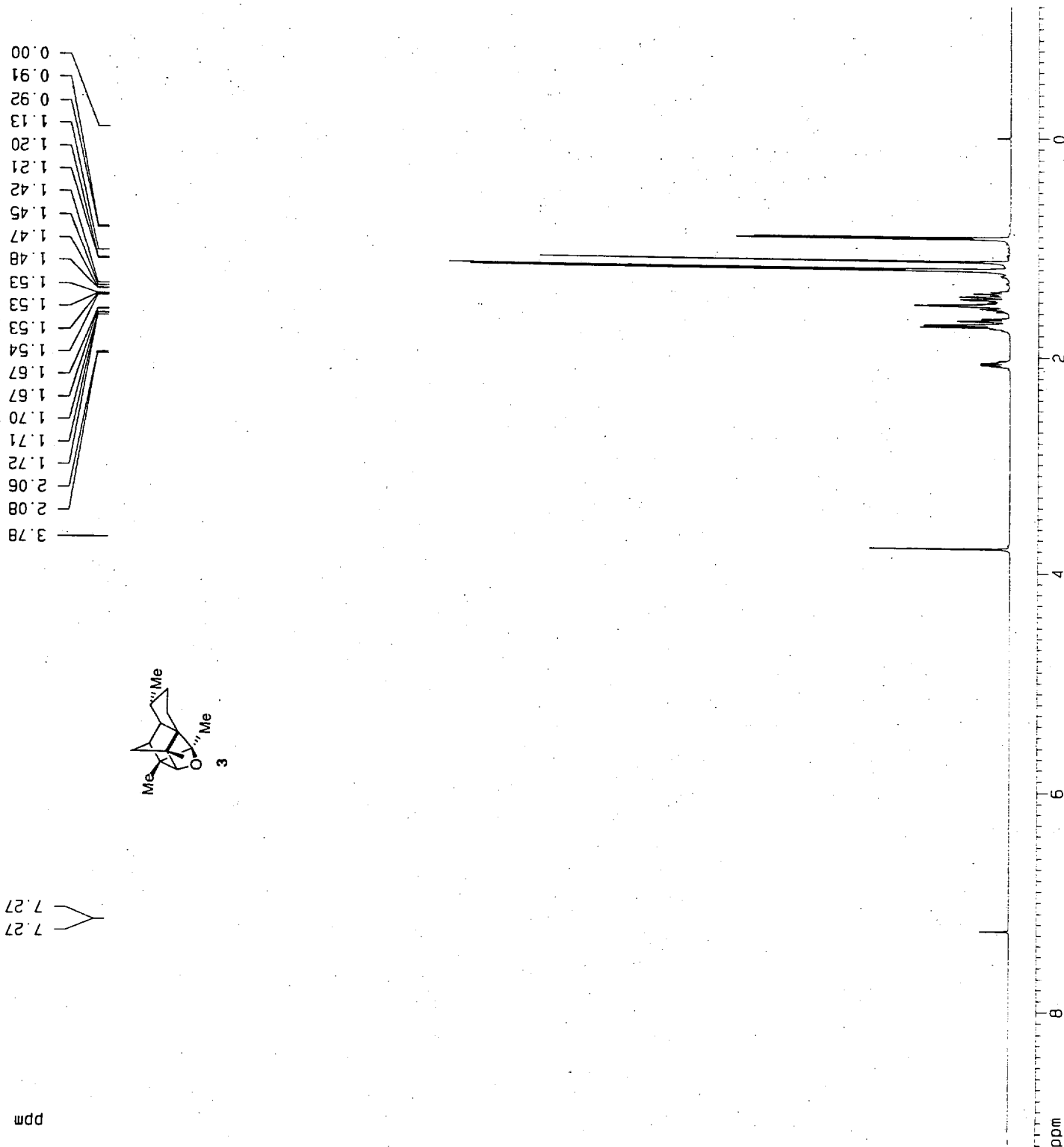
Date_	990712
Time	20 01
INSTRUM	spect
PROBHD	5 mm QNP 1H
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl ₃
NS	1436
DS	0
SWH	39682.539 Hz
FIDRES	0.605507 Hz
AQ	0.8258036 sec
RG	1024
DW	12.600 usec
DE	7.50 usec
TE	300.0 K
d11	0.03000000 sec
PL12	20.00 dB
CPDPRG2	waltz16
PCPD2	100.00 usec
SFO2	500.1320005 MHz
NUC2	¹ H
PL2	120.00 dB
D1	2.00000000 sec
P1	5.00 usec
SFO1	125.7736214 MHz
NUC1	¹³ C
PL1	0.00 dB

F2 - Processing parameters

SI	32768
SF	125.7577808 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	20.00 cm
F1P	249.444 ppm
F1	31369.46 Hz
F2P	-6.286 ppm
F2	-790.56 Hz
PPMCM	12.78649 ppm/cm
HZCM	1608.00098 Hz/cm



Current Data Parameters
NAME tjr11-114
EXPNO 1
PROCNO 1

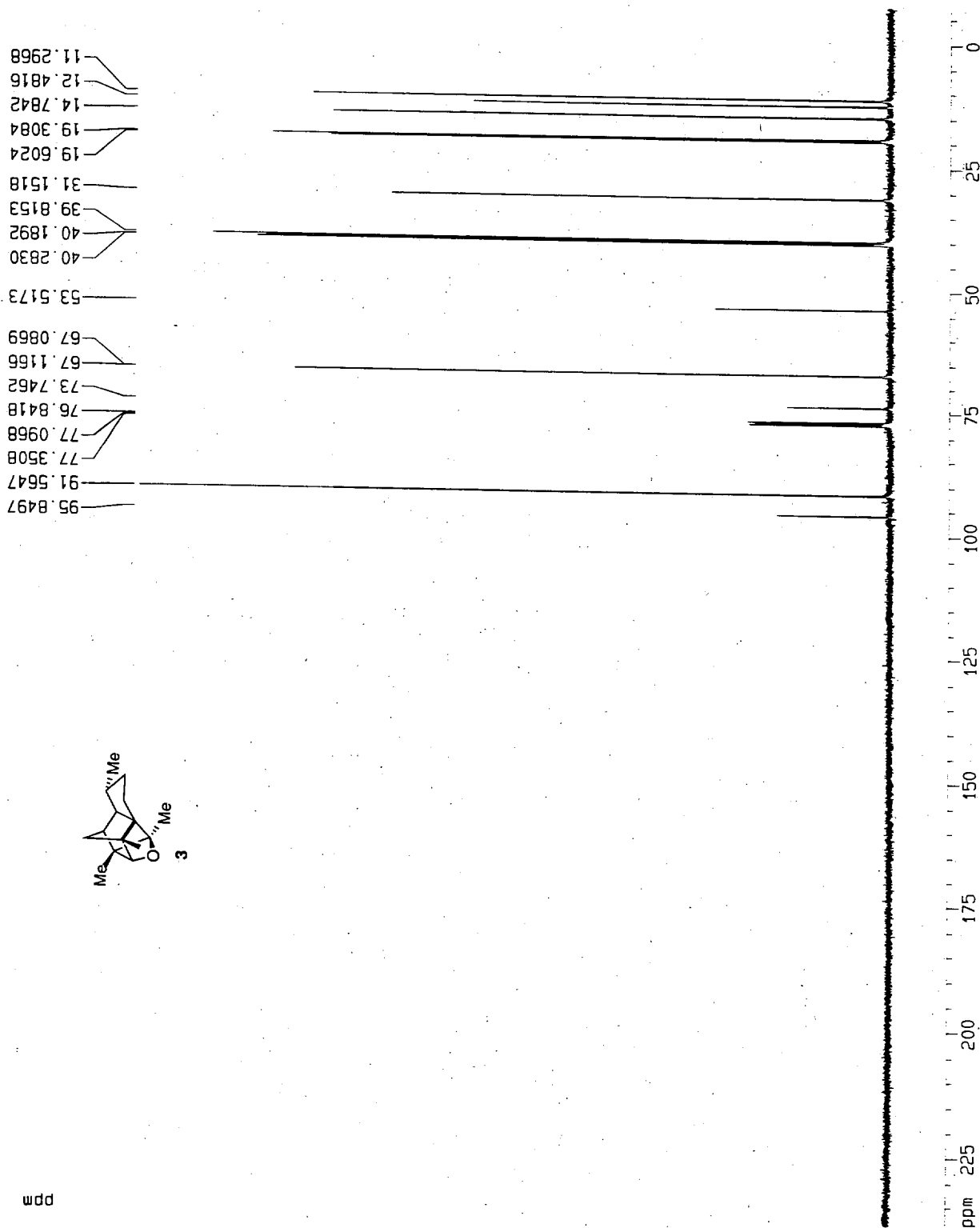
F2 - Acquisition Parameters
Date_ 990607
Time 17.02
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zg
TD 32768
SOLVENT CDCl3
NS 4
DS 0
SWH 5208.333 Hz
FIDRES 0.158946 Hz
AQ 3.1457779 sec
RG 64
DM 96.000 usec
DE 4.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 5.00 usec
SF01 500.132018 MHz
NUC1 1H
PL1 0.00 dB

F2 - Processing parameters
SI 16384
SF 500.1300100 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 9.209 ppm
F1 4605.93 Hz
F2P -1.204 ppm
F2 -602.40 Hz
PPMCM 0.52070 ppm/cm
HZCM 260.41669 Hz/cm

S4

97/10/17. #5, 122.5 mg



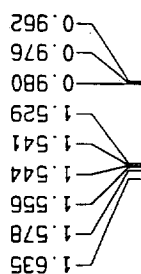
Current Data Parameters
NAME tjr11C-114
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 990607
Time 15.31
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zgpg30
TO 65536
SOLVENT CDCl3
NS 225
DS 0
SWH 39682.539 Hz
FIDRES 0.605507 Hz
AQ 0.8258035 sec
RG 1024
DW 12.600 usec
DE 7.50 usec
TE 300.0 K
d11 0.03000000 sec
PL12 20.00 dB
CPOPRG2 waltz16
PCPD2 100.00 usec
SF02 500.132005 MHz
NUC2 1H
PL2 120.00 dB
D1 2.00000000 sec
P1 5.00 usec
SF01 125.7736214 MHz
NUC1 13C
PL1 0.00 dB

F2 - Processing parameters
SI 32768
SF 125.7577845 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 238.743 ppm
F1 30023.74 Hz
F2P -7.352 ppm
F2 -924.60 Hz
PPMCM 12.30474 ppm/cm
HZCM 1547.41711 Hz/cm

S5

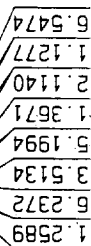


Current Data Parameters
 NAME tjrll-
 EXPND 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990610
 Time 16.52
 INSTRUM spect
 PROBHD 5 mm QNP 1H
 PULPROG zg
 TD 32768
 SOLVENT CDCl3
 NS 4
 DS 0
 SWH 5208.333 Hz
 FIDRES 0.158946 Hz
 AQ 3.1457779 sec
 RG 64
 DW 96.000 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 5.00 usec
 SFO1 500.1320118 MHz
 NUC1 1H
 PL1 0.00 dB

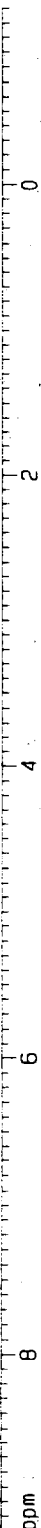
F2 - Processing parameters
 SI 16384
 SF 500.1300104 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 FIP 9.209 ppm
 F1 4605.61 Hz
 F2 -1.205 ppm
 F2 -602.72 Hz
 PPMCM 0.52070 ppm/cm
 HZCM 260.41669 Hz/cm

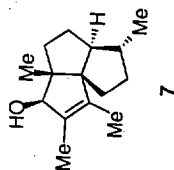
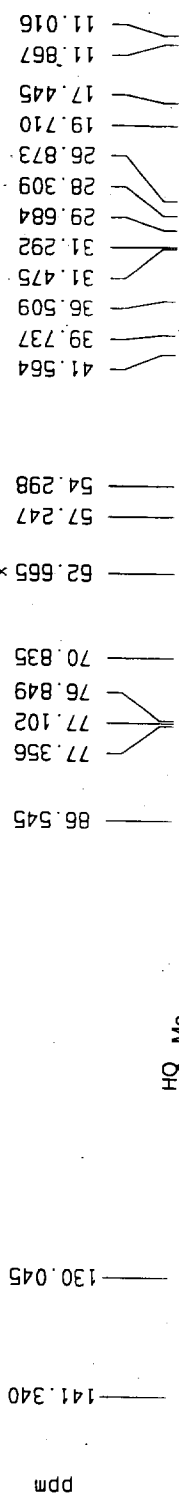


1.0000

Integral

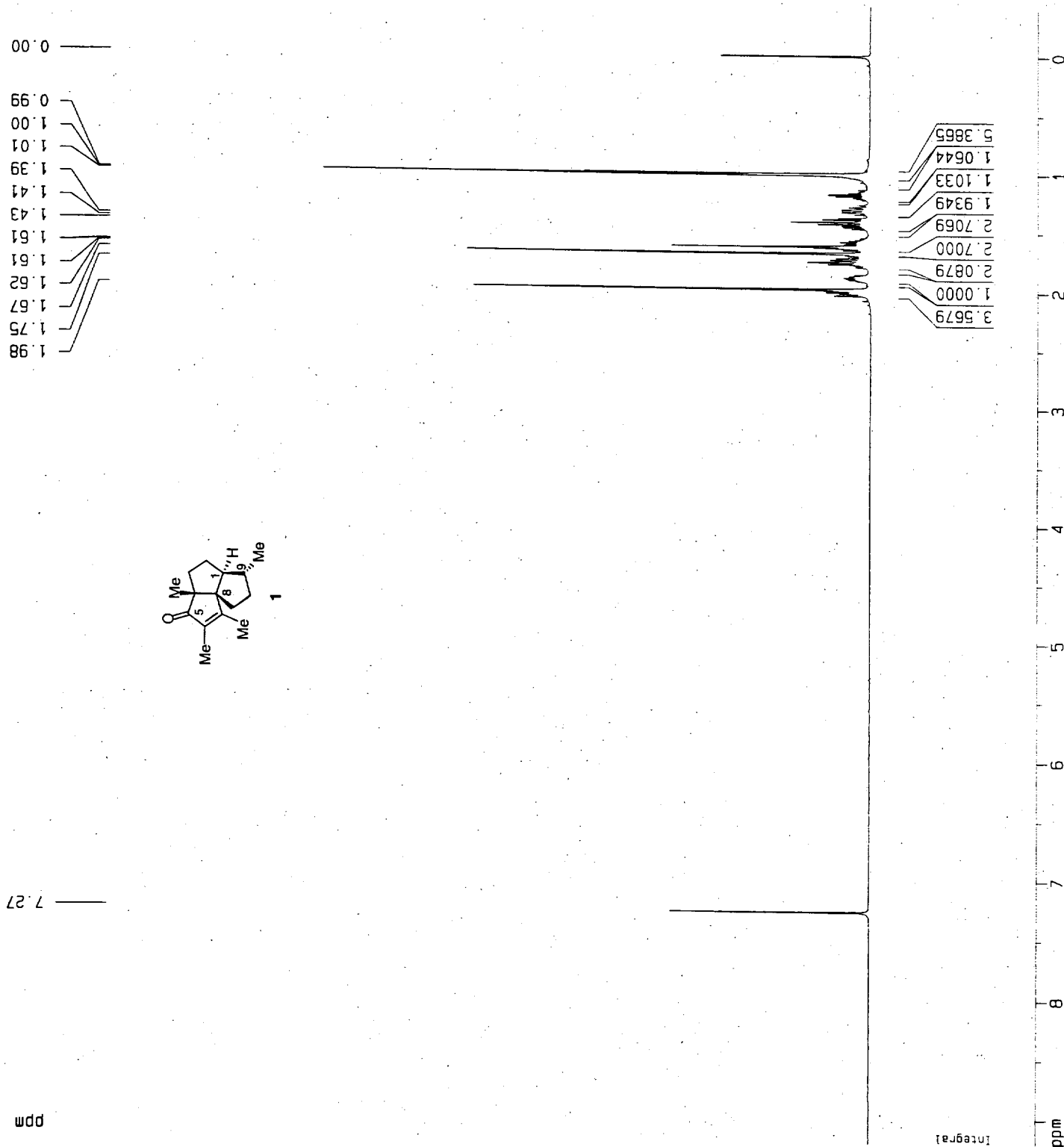


97/10/17, #5, 122.5 mg



Current Data Parameters	
NAME	tjrl1C-125
EXPNO	1
PROCNO	1
F2 - Acquisition Parameters	
Date_	990517
Time	16.23
INSTRUM	spect
PROBHD	5 mm QNP 1H
PULPROG	zgdc
TD	65536
SOLVENT	COC13
NS	284
DS	0
SWH	39682.539 Hz
FIDRES	0.605507 Hz
AQ	0.8258036 sec
RG	1024
DW	12.600 usec
DE	7.50 usec
TE	300.0 K
d11	0.0300000 sec
PL12	20.00 dB
CPDPRG2	waltz16
PCPD2	100.00 usec
SFO2	500.1320005 MHz
NUC2	1H
PL2	120.00 dB
D1	2.0000000 sec
P1	5.00 usec
SFO1	125.7736214 MHz
NUC1	13C
PL1	0.00 dB
F2 - Processing parameters	
SI	32768
SF	125.7577832 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40
1D NMR plot parameters	
CX	20.00 cm
F1p	151.329 ppm
F1	19030.80 Hz
F2p	5.636 ppm
F2	708.82 Hz
PPMCM	7.20463 ppm/cm
HZCM	916.03905 Hz/cm

S7



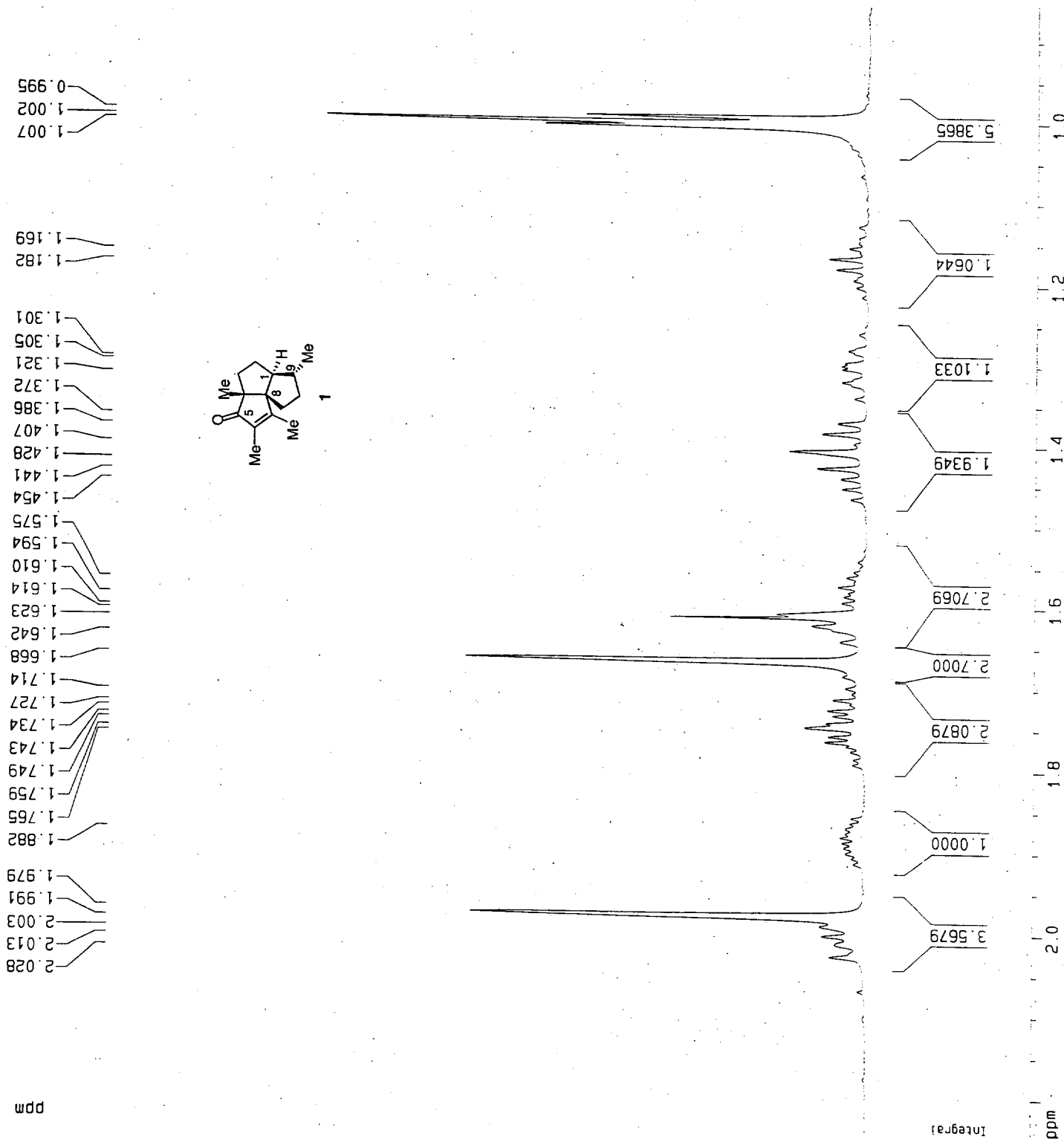
Current Data Parameters
NAME tjrII-56
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 990427
Time 19.40
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zg
TD 32768
SOLVENT CDCl3
NS 1
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 128
DW 62.400 usec
DE 4.50 usec
TE 300.0 K
D1 2.00000000 sec
P1 8.80 usec
SFO1 500.1337510 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 500.1300111 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 9.215 ppm
F1 4609.07 Hz
F2P -0.420 ppm
F2 -209.94 Hz
PPMCM 0.48178 ppm/cm
HZCM 240.95061 Hz/cm

S8



Current Data Parameters
NAME tjr11-56
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 990427
Time 19.40
INSTRUM spect
PROBHD 5 mm GNP 1H
PULPROG zg
TD 32768
SOLVENT CDCl3
NS 1
DS 0
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 2.0447731 sec
RG 128
DE 62.400 usec
TE 300.0 K
D1 2.00000000 sec
P1 8.80 usec
SF01 500.1337510 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters

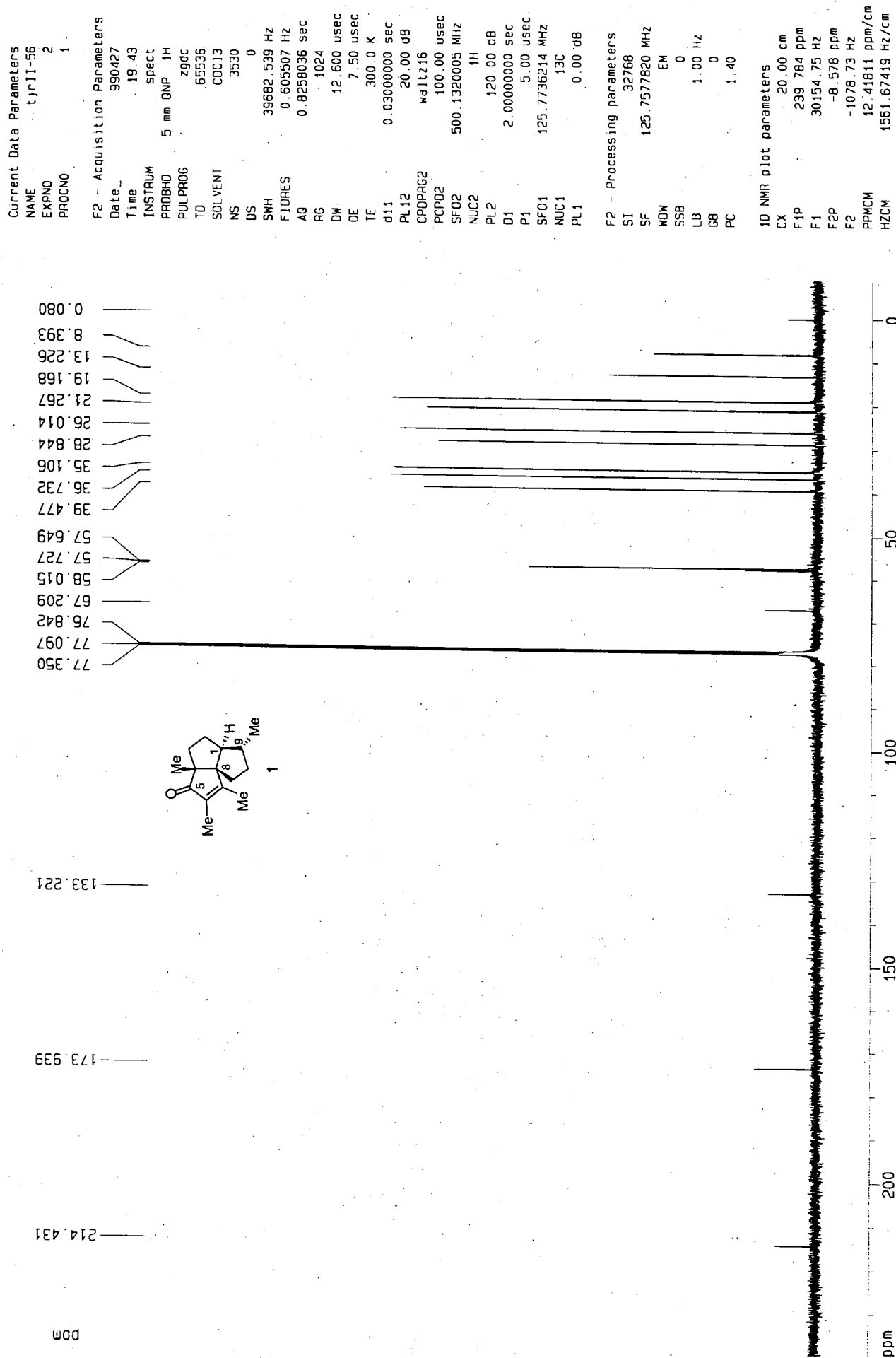
SI 15384
SF 500.1300111 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

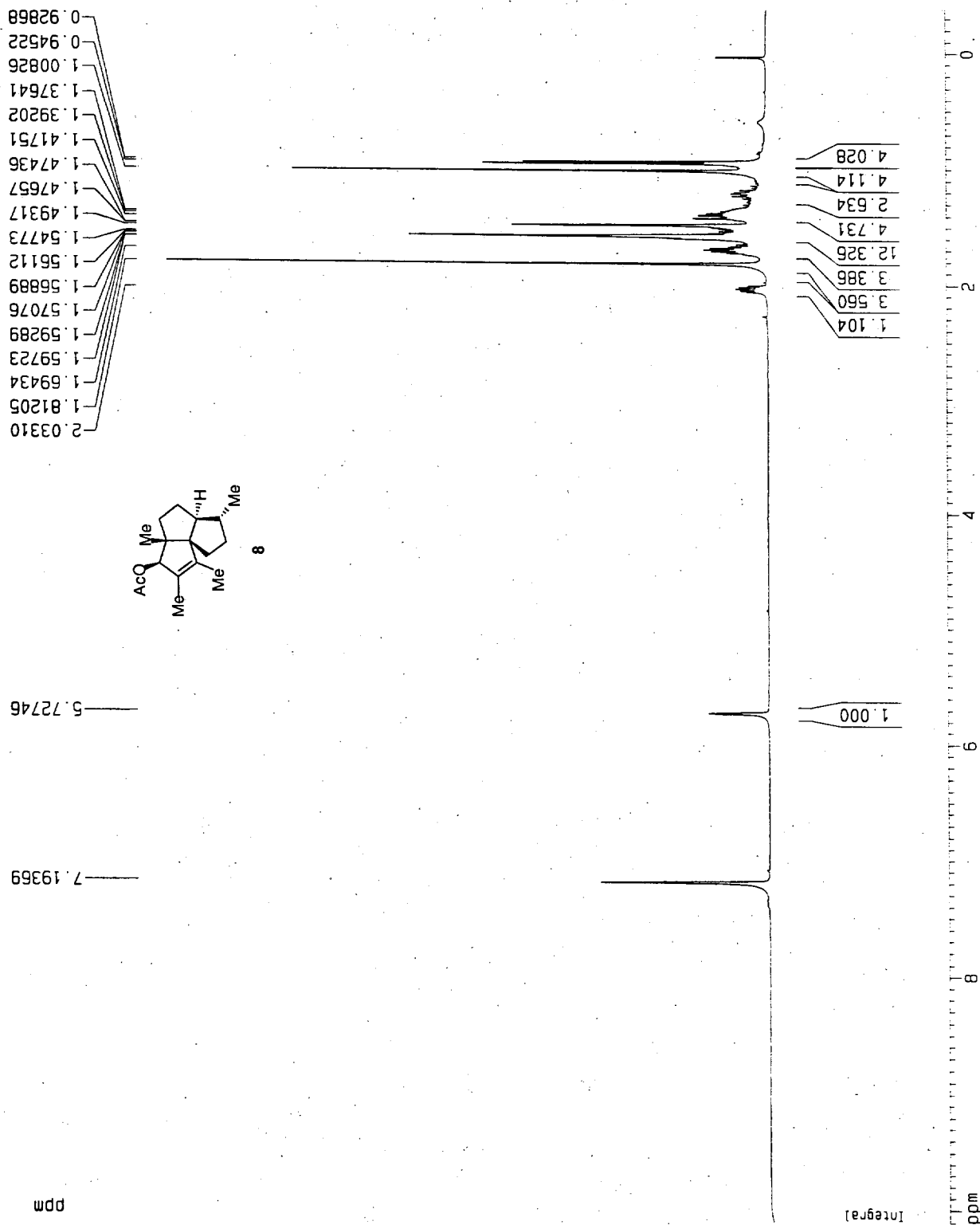
CX 20.00 cm
F1P 2.244 ppm
F1 112.46 Hz
F2P 0.154 ppm
F2 427.08 Hz
PPMCM 0.06952 ppm/cm
HZCM 34.76886 Hz/cm

S9

97/10/17, #5, 122.5 mg

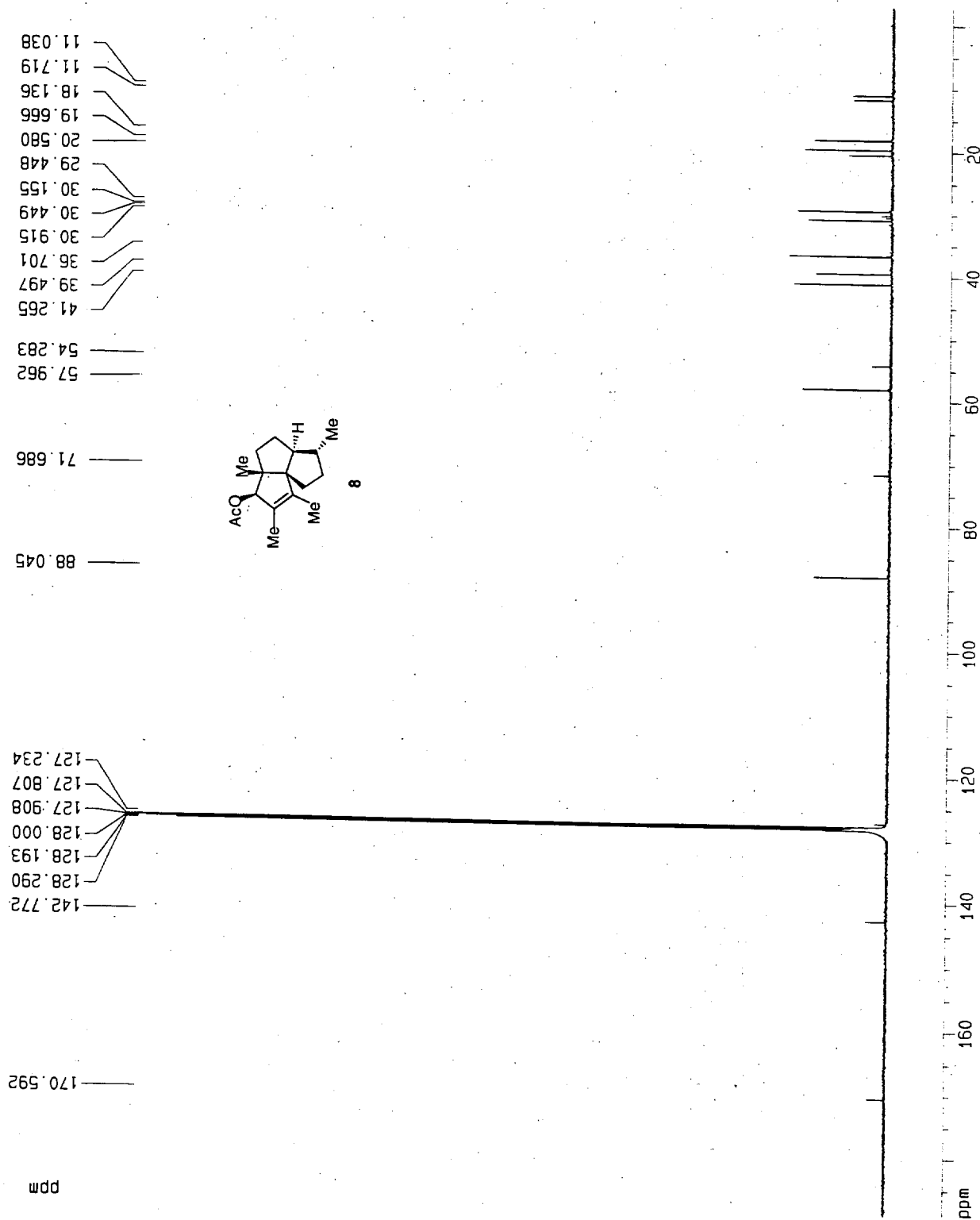


S10



S11

97/10/17, #5, 122.5 mg



Current Data Parameters

NAME	tjrl1C-133
EXPNO	1
PROCNO	1

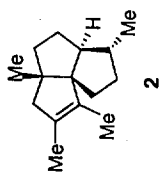
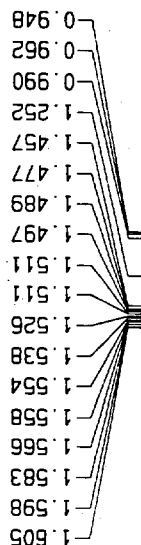
F2 - Acquisition Parameters

Date_	990622
Time	15.47
INSTRUM	spect
PROBHD	5 mm QNP 1H
PULPROG	zgpg30
TD	65536
SOLVENT	CDC13
NS	389
DS	0
SWH	39682.539 Hz
FIDRES	0.605507 Hz
AQ	0.8258036 sec
RG	1024
DW	12.600 usec
DE	7.50 usec
TE	300.0 K
d11	0.03000000 sec
PL12	20.00 dB
CPDPRG2	waltz16
PCPD2	100.00 usec
SFO2	500.1320005 MHz
NUC2	1H
PL2	120.00 dB
D1	2.00000000 sec
P1	5.00 usec
SFO1	125.7736214 MHz
NUC1	13C
PL1	0.00 dB

F2 - Processing parameters

SI	32768
SF	125.7577630 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

S12

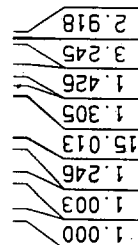


Current Data Parameters
 NAME tjr11-159-2
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990710
 Time 10.45
 INSTRUM spect
 PROBHD 5 mm QNP 1H
 PULPROG zg
 TD 32768
 SOLVENT CDCl3
 NS 4
 DS 0
 SWH 5208.333 Hz
 FIDRES 0.158946 Hz
 AQ 3.1457779 sec
 RG 64
 DW 96.000 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 5.00 usec
 SF01 500.1320118 MHz
 NUC1 1H
 PL1 0.00 dB

F2 - Processing parameters
 SI 16384
 SF 500.1300139 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 9.202 ppm
 F1 4602.11 Hz
 F2 -1.212 ppm
 F2 -606.22 Hz
 PPMCM 0.52070 ppm/cm
 HZCM 260.41666 Hz/cm

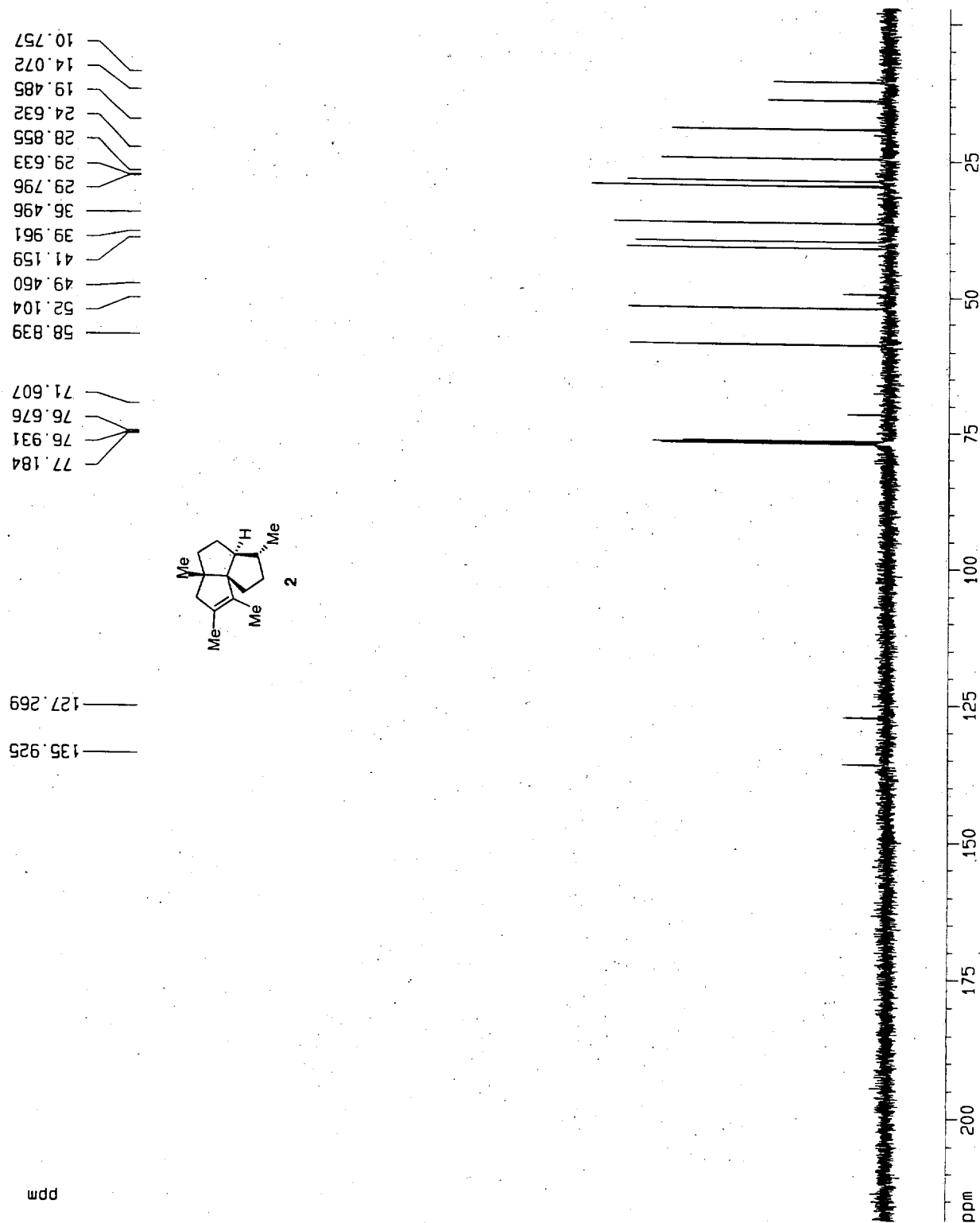


Integral

ppm

S13

97/10/17, #5, 122.5 mg



Current Data Parameters
 NAME tjrIC-159-2
 EXPNO 1
 PROCNO 1

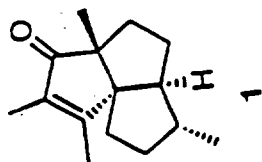
F2 - Acquisition Parameters
 Date_ 990710
 Time 10.54
 INSTRUM spect
 PROBHD 5 mm QNP 1H
 PULPROG zgpg
 TD 65536
 SOLVENT CDCl3
 NS 260
 DS 0
 SWH 39682.539 Hz
 FIDRES 0.605507 Hz
 AQ 0.8258036 sec
 RG 1024
 DW 12.600 usec
 DE 7.50 usec
 TE 300.0 K
 d11 0.03000000 sec
 PL12 20.00 dB
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 500.1320005 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 2.00000000 sec
 P1 5.00 usec
 SF01 125.7736214 MHz
 NUC1 13C
 PL1 0.00 dB

F2 - Processing parameters
 SI 32768
 SF 125.7578019 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 218.531 ppm
 F1 27481.99 Hz
 F2P -2.673 ppm
 F2 -336.18 Hz
 PPMCM 11.06022 ppm/cm
 HZCM 1390.90845 Hz/cm

copied from the supporting information of the following journal.

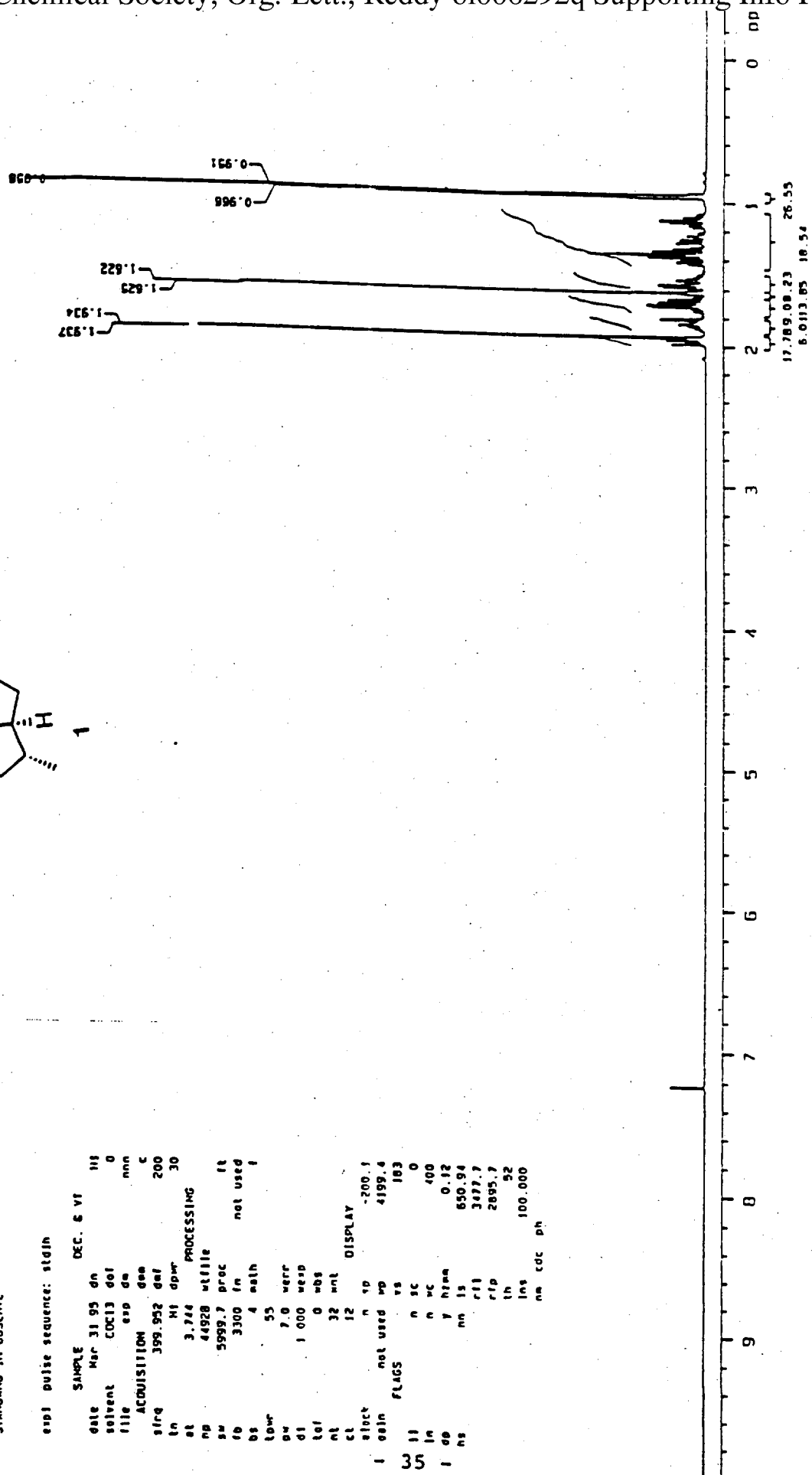
Sha, C.-K. *et al. J. Org. Chem.* 1998, 63, 2699-2704.



STANDARD 1H OBSERVE

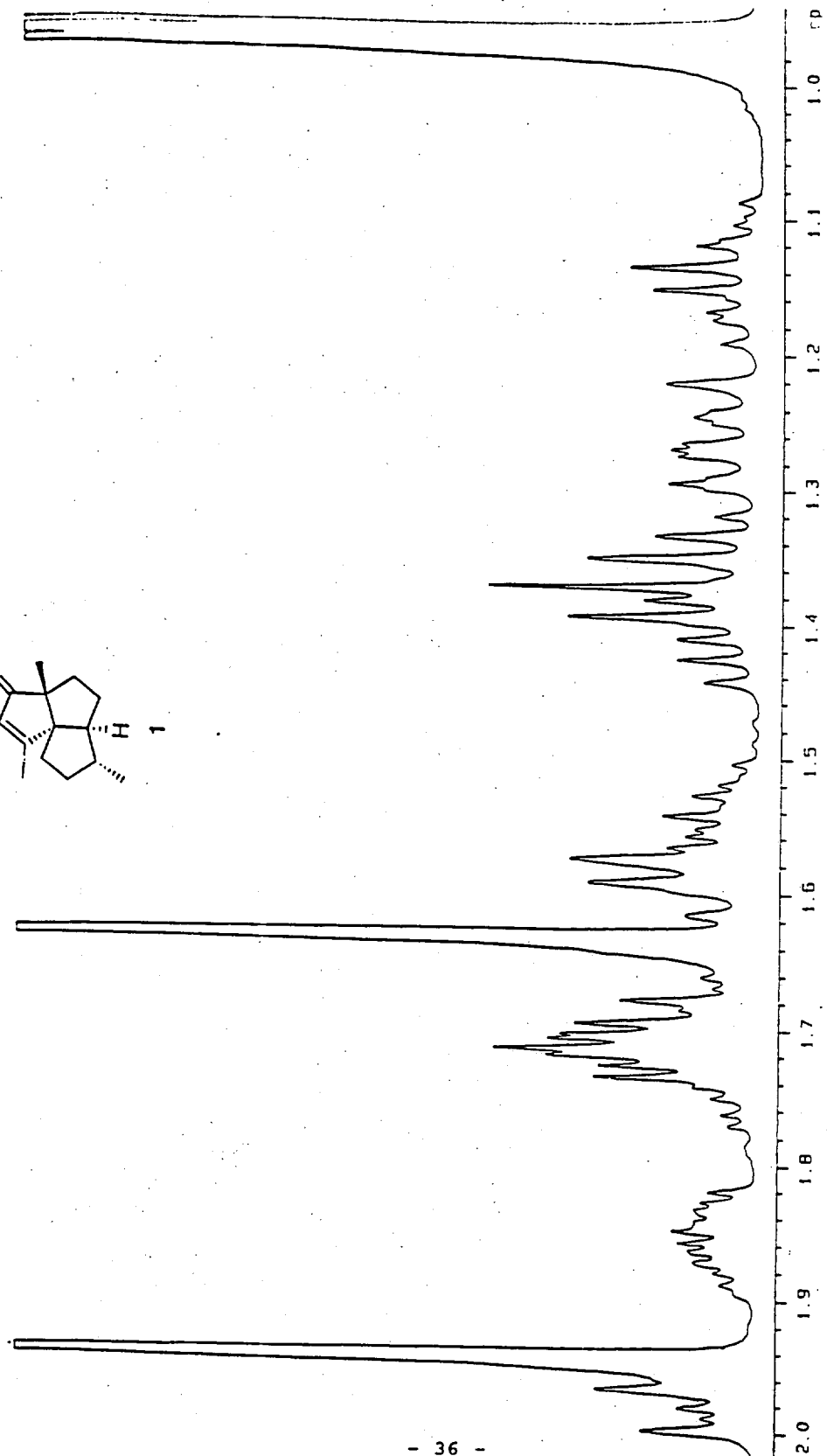
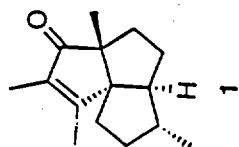
exp1 pulse sequence: stdin

SAMPLE		DEC. & VI	
date	Mar 31 95	dn	101
solvent	CDCl3	dol	0
file	exp da	nnn	nnn
ACQUISITION		dec	c
freq	399.952	del	200
in	Hi	dpm	30
at	3.724	PROCESSING	
np	44928	wtile	
sw	5999.7	proc	ft
rb	3300	in	not used
bs	4	math	1
low	55		
pw	7.0	verr	
di	1.000	weep	
tol	0	ws	
nt	32	mt	
cl	12	DISPLAY	
slact	n	sp	-200.1
gain	not used	vp	4199.4
FLAGS		vs	183
11	n	sc	0
in	n	vc	400
ns	nn	ls	0.12
	nn	ls	650.94
	rl	rl	3472.7
	rlp	rlp	2895.7
	th	th	52
	ins	ins	100.000
	na	cdc	ph



copied from the supporting information of the following journal.

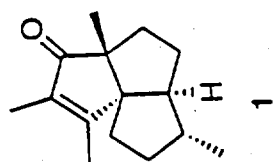
Sha, C.-K. *et al.* *J. Org. Chem.* **1998**, *63*, 2699-2704.



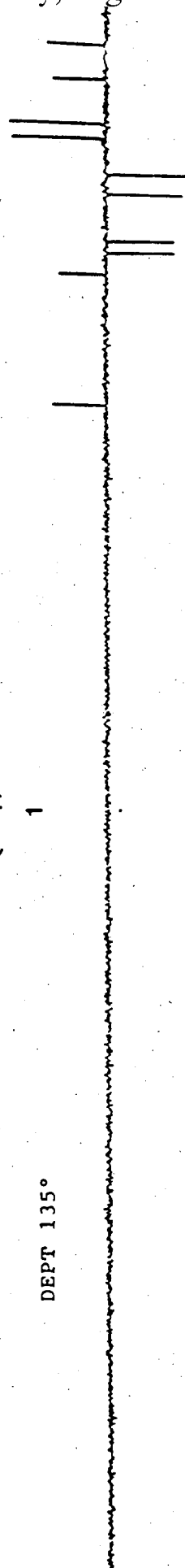
δ 0.9-2.05 Expanded

copied from the supporting information of the following journal.

Sha, C.-K. *et al.* *J. Org. Chem.* 1998, 63, 2699-2704.



DEPT 135°



DEPT 90°



broad-band decoupled

