

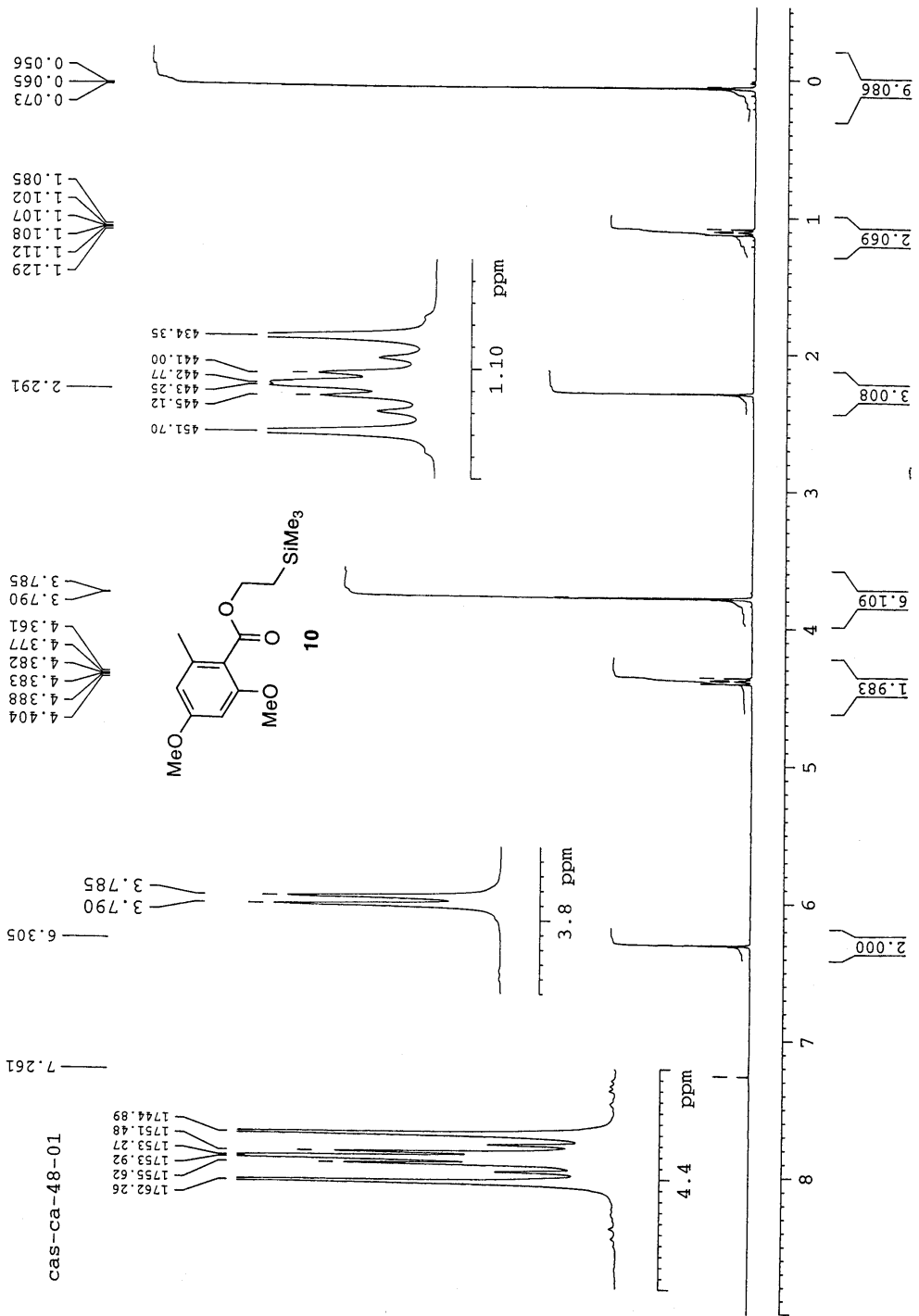
# **SUPPORTING INFORMATION**

## **Total Synthesis of (S)-(+)-Citrefuran by Ring Closing Alkyne Metathesis**

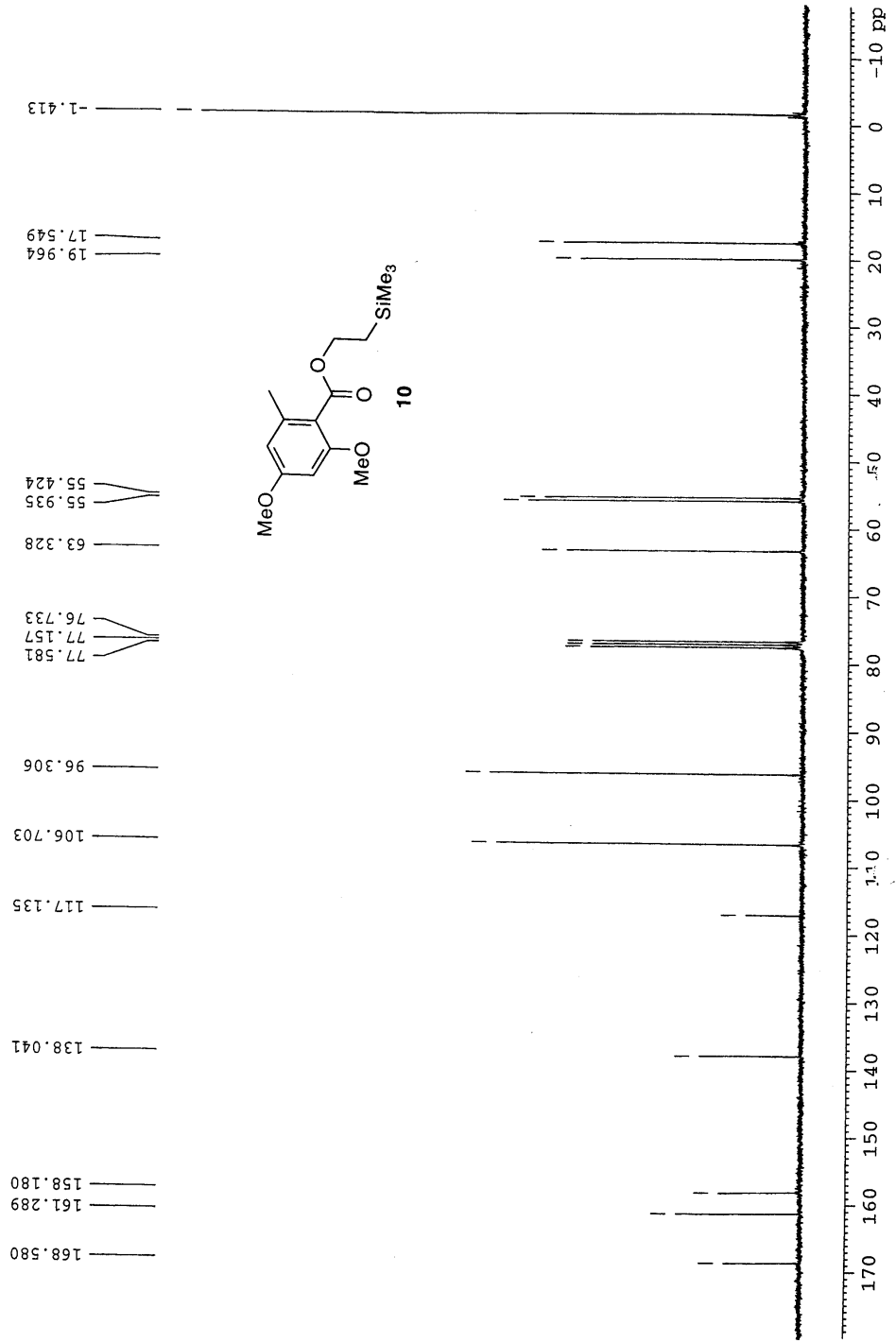
**Alois Fürstner\*, Sophie Castanet, Karin Radkowski, and Christian W. Lehmann**

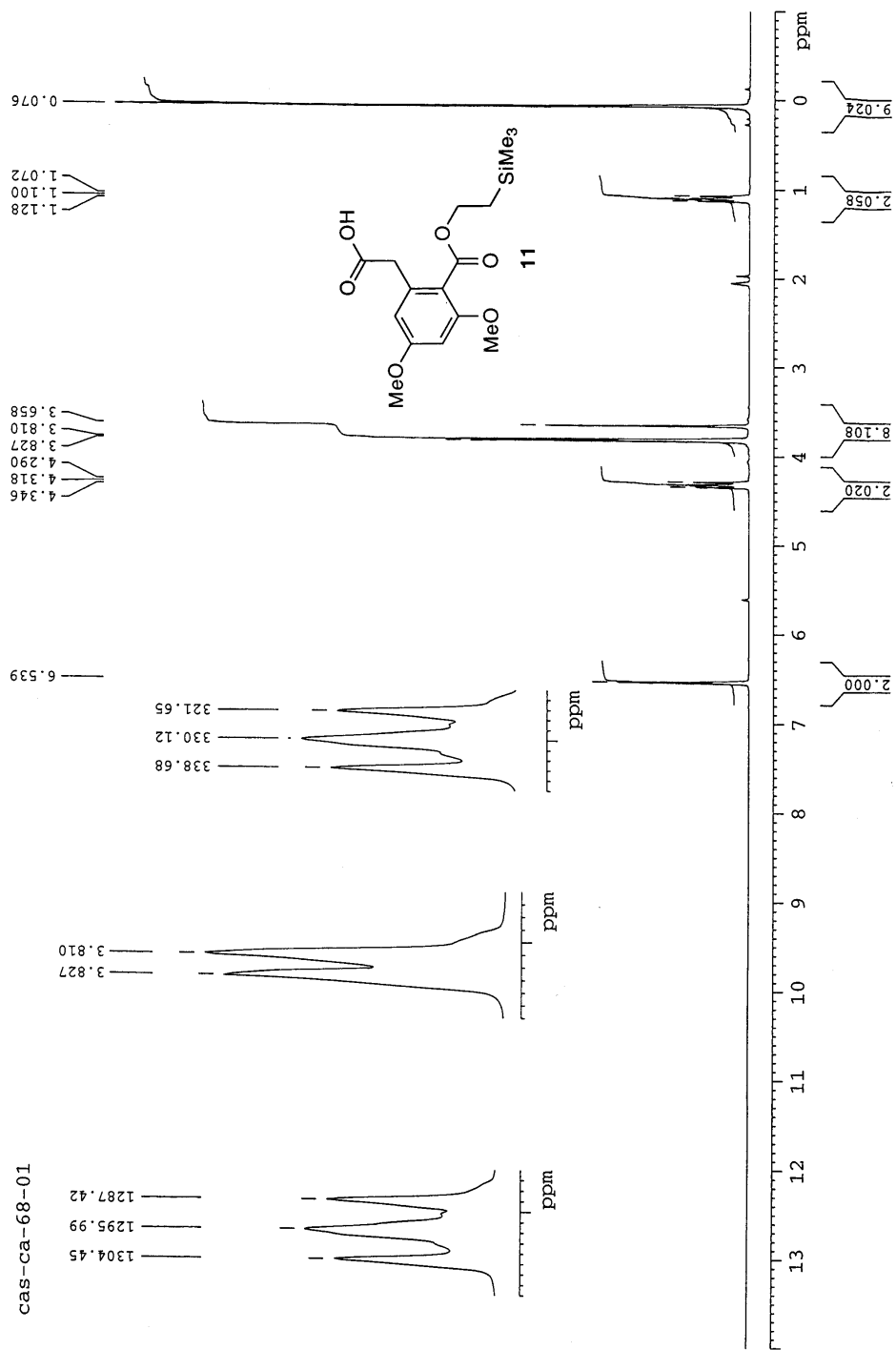
*Max-Planck-Institut für Kohlenforschung, D-45470 Mülheim/Ruhr, Germany*

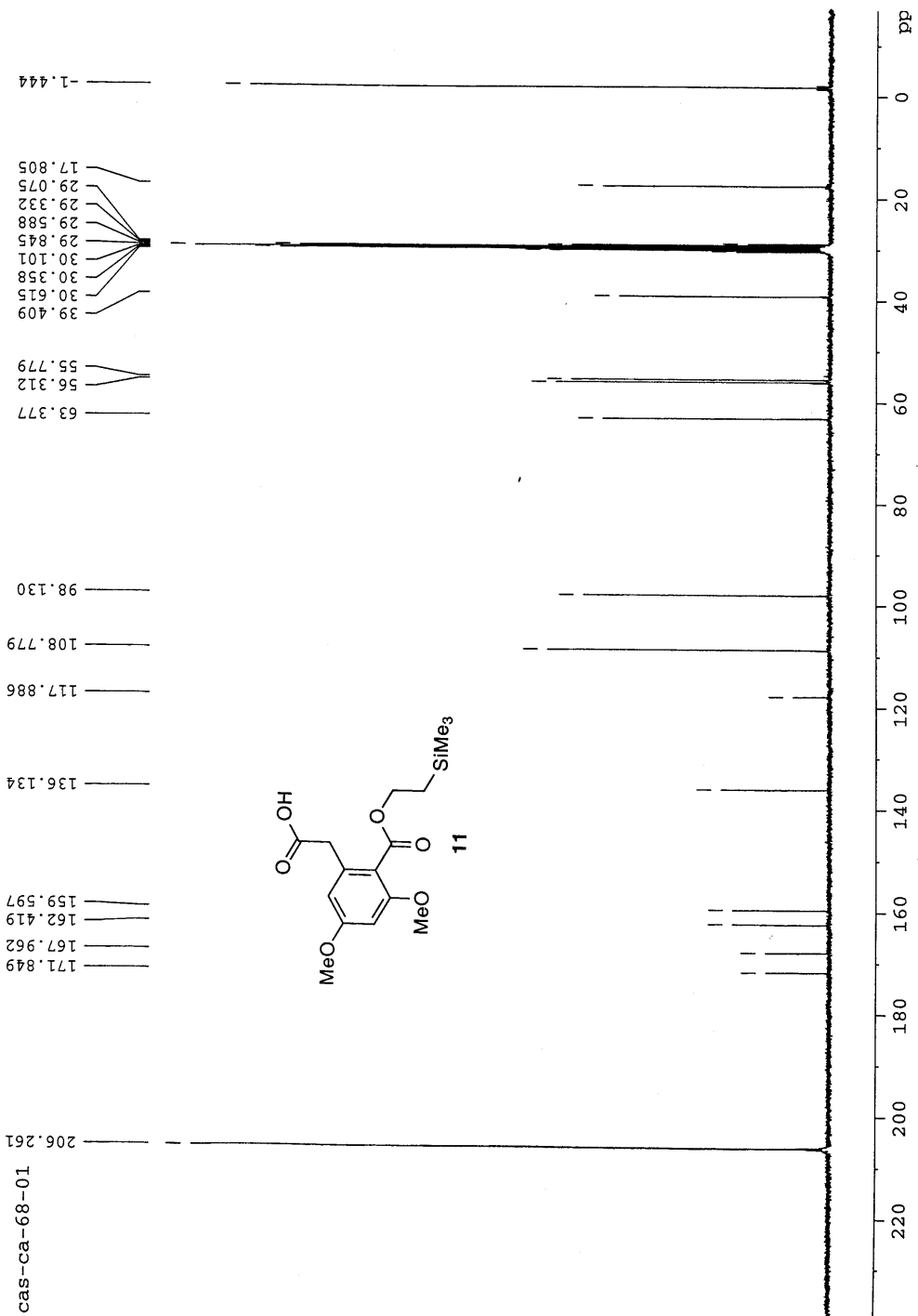
*fuerstner@mpi-muelheim.mpg.de*

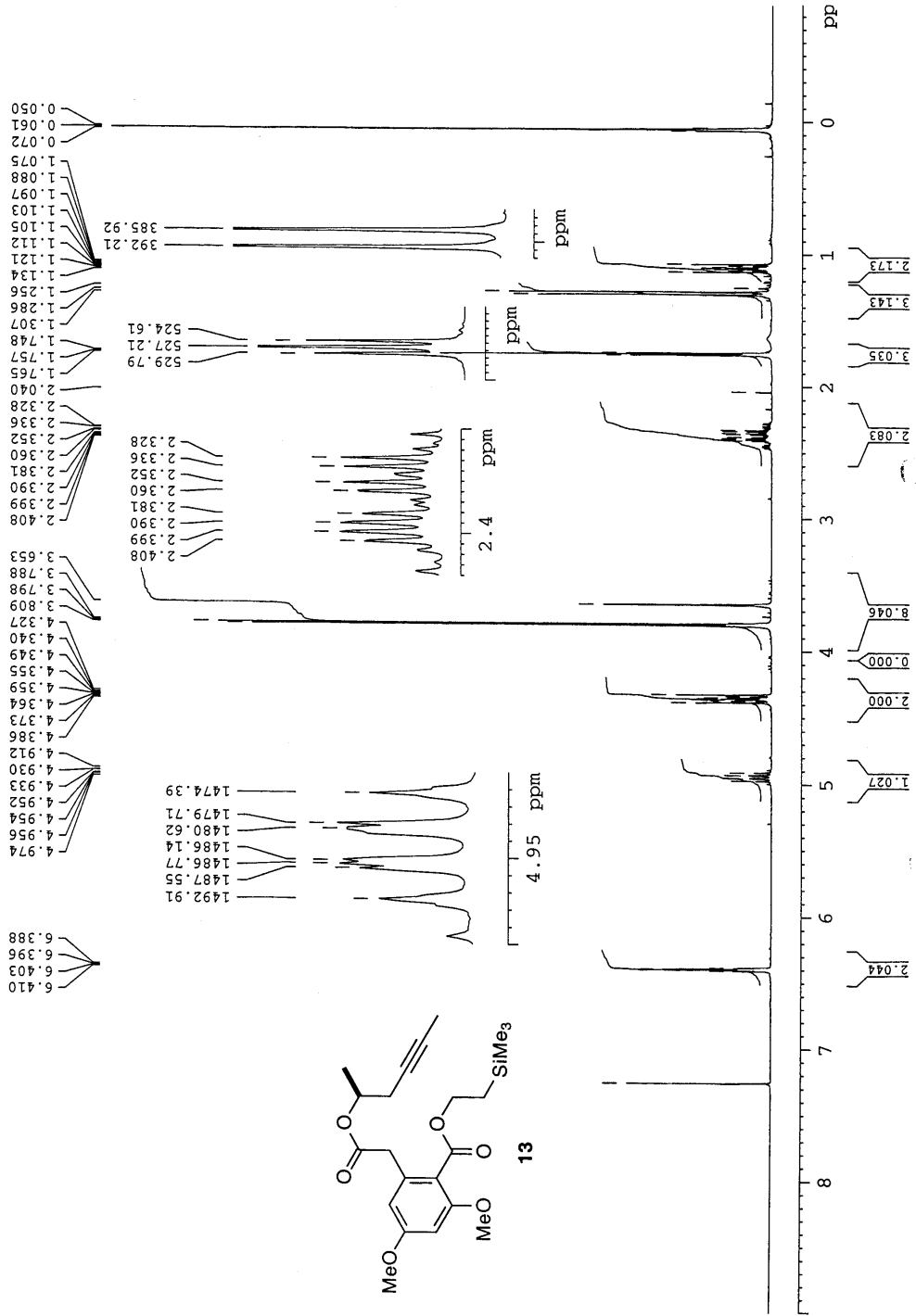


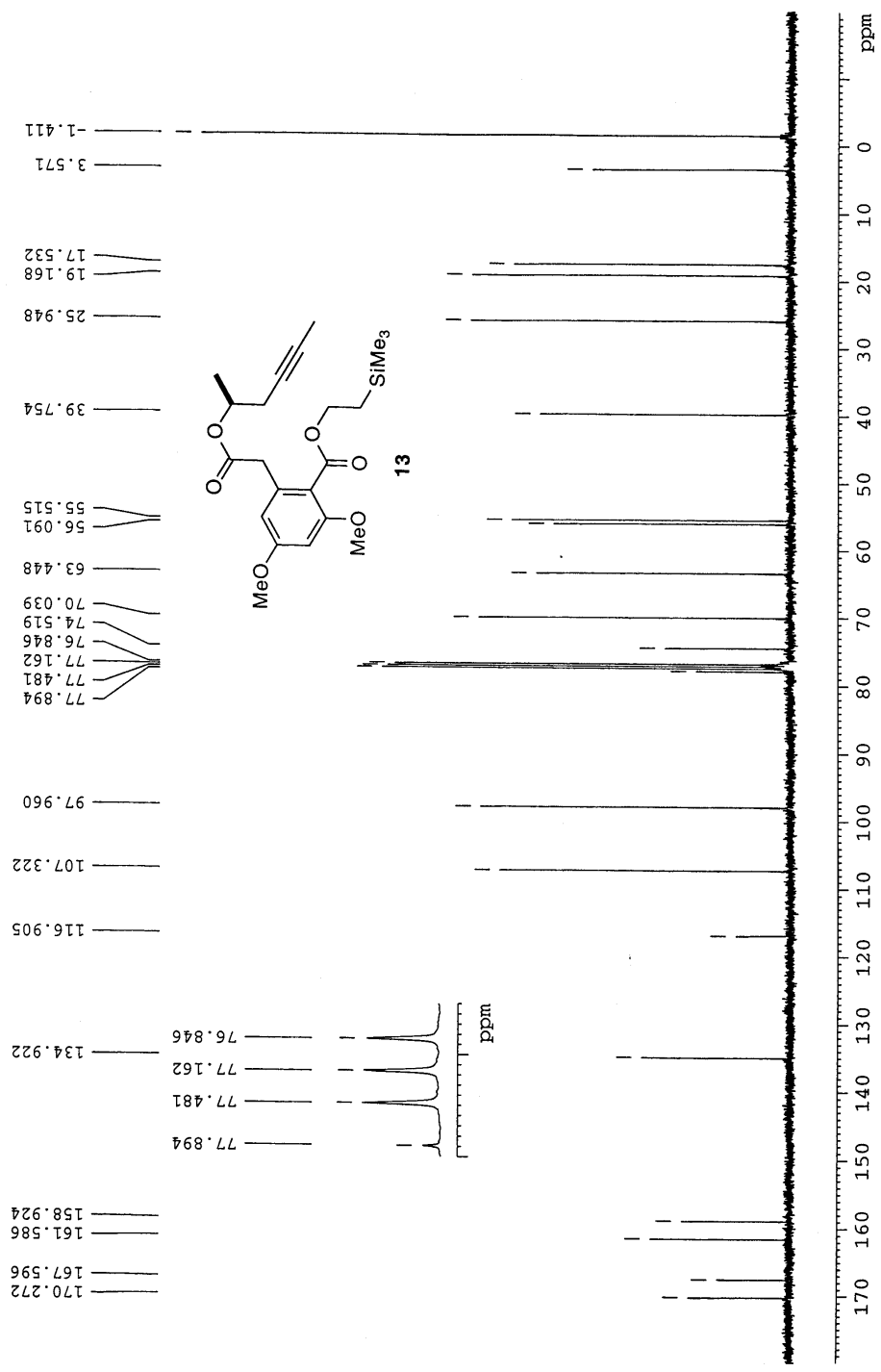
cas-ca-45-02

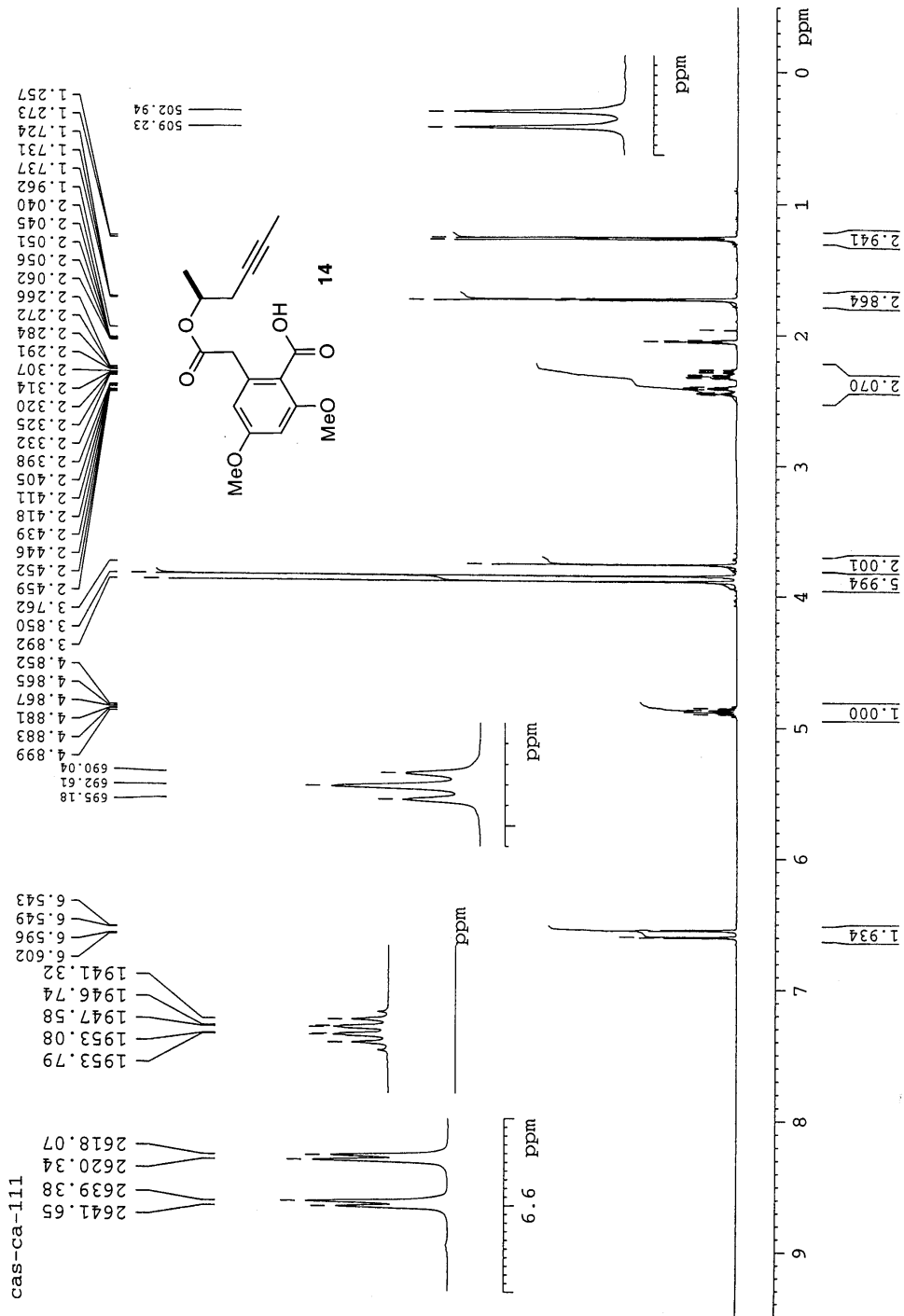




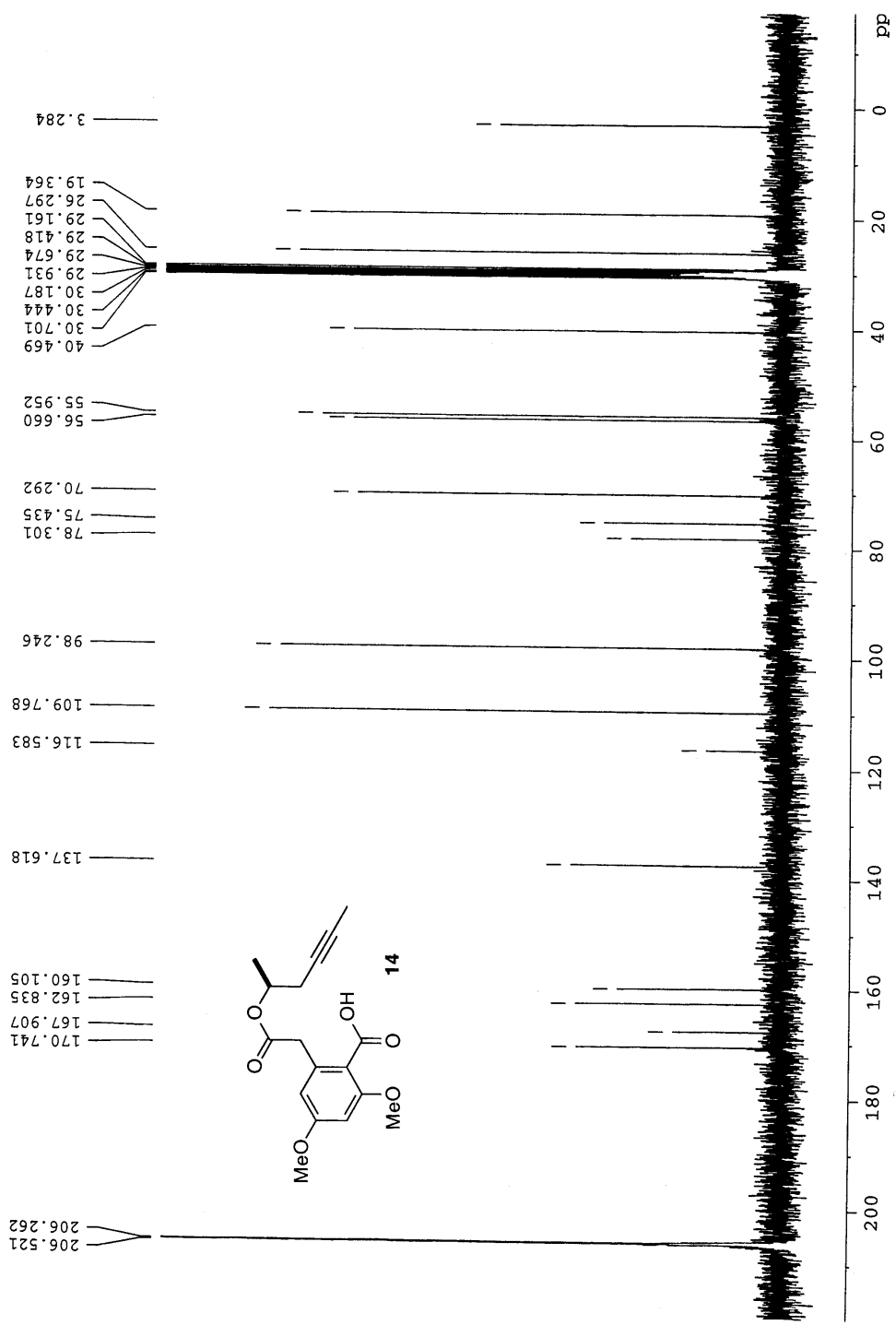










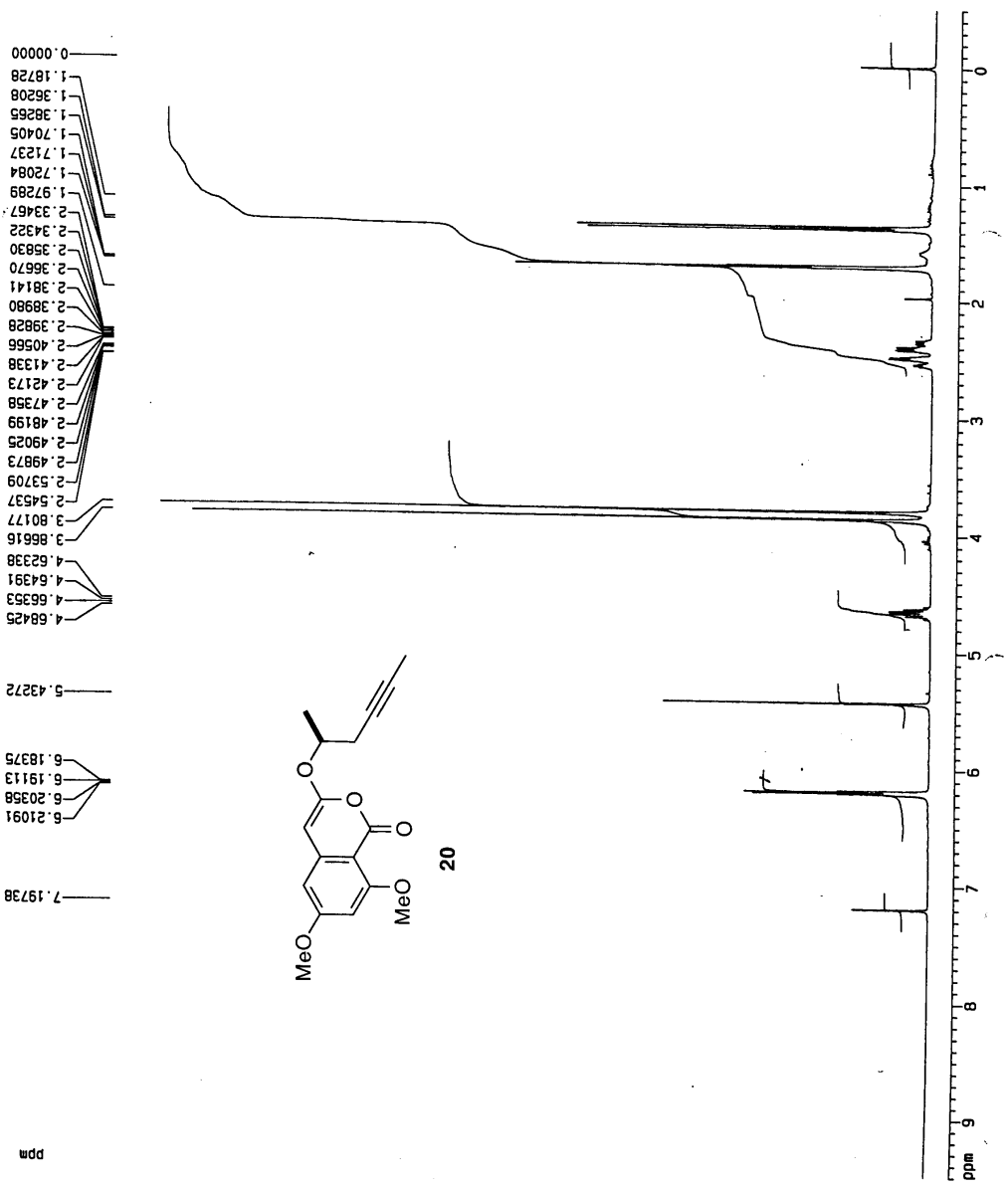


Current Data Parameters  
 NAME my10054 **Gk.**  
 EXPNO 10  
 PROCNO 1

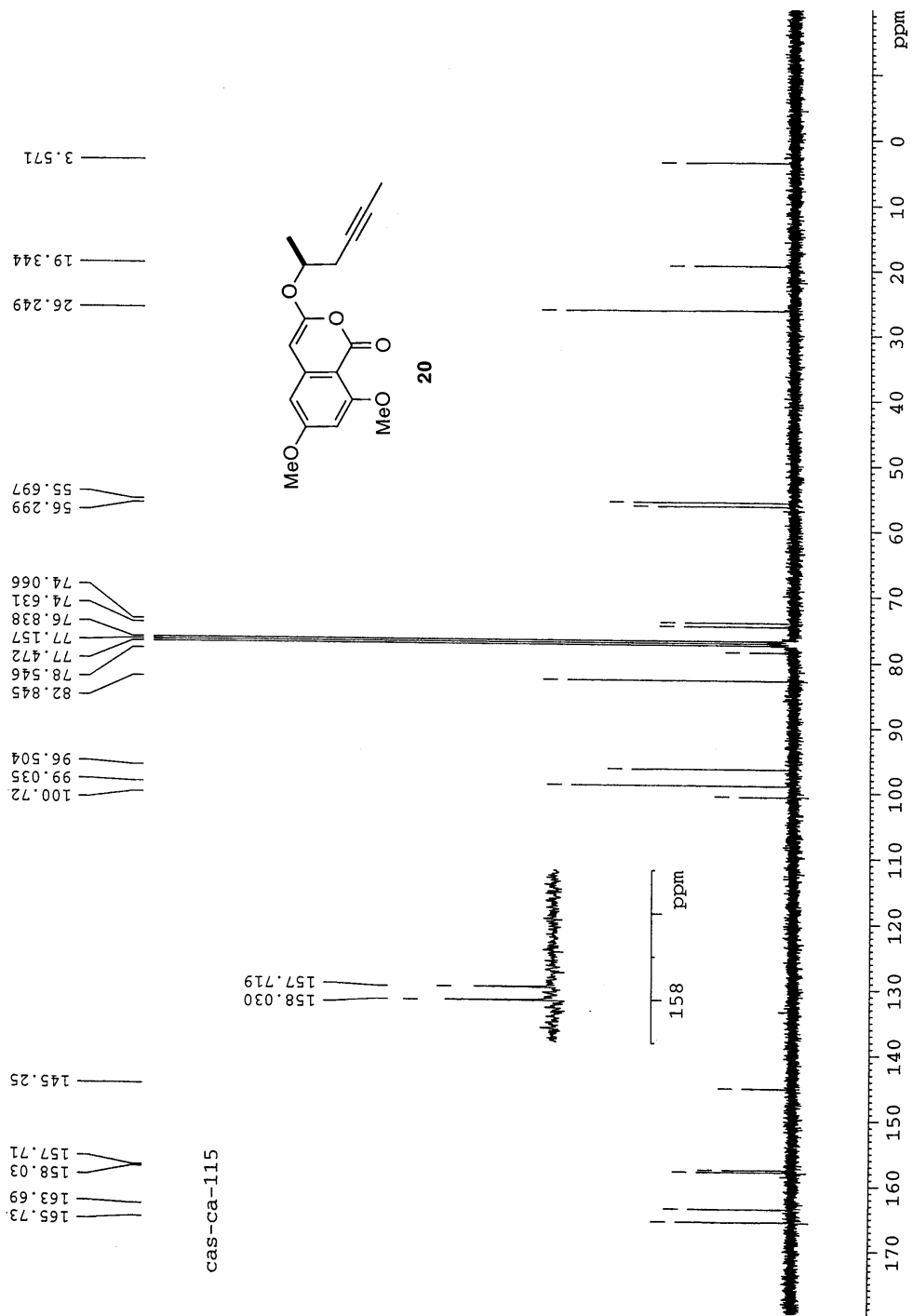
F2 - Acquisition Parameters  
 Date\_ 20020512  
 Time 14.39  
 INSTRUM dpz300  
 PROBHD 5 mm QNP 1H/  
 PULPROG zg30  
 TD 32768  
 SOLVENT CDCl3  
 NS 32  
 DS 0  
 SWH 6172.839 Hz  
 FIDRES 0.188380 Hz  
 AQ 2.6542580 sec  
 RG 362  
 DW 81.000 usec  
 DE 4.50 usec  
 TE 300.0 K  
 D1 2.0000000 sec

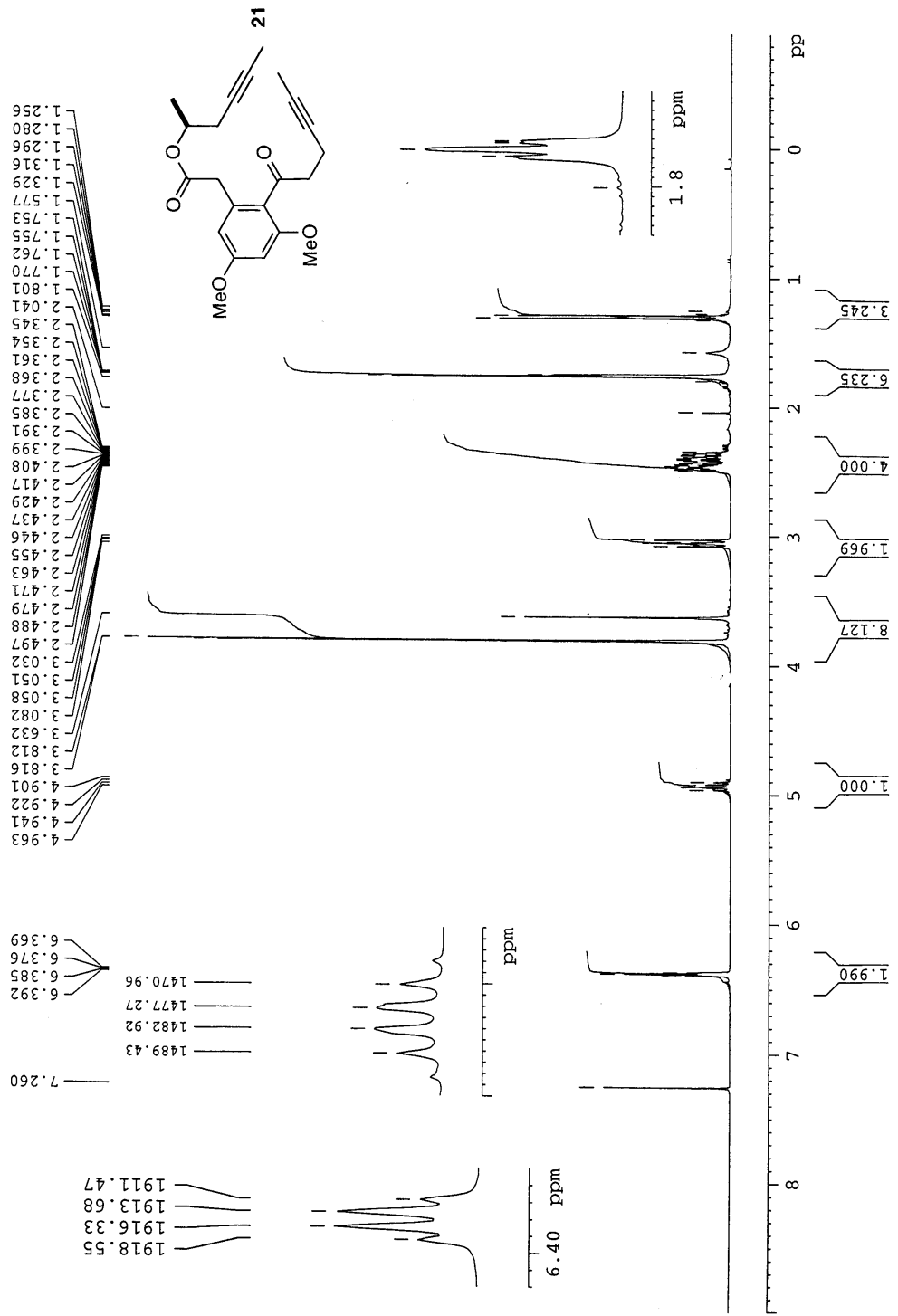
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 NUC1 1H  
 P1 7.30 usec  
 PL1 -6.00 dB  
 SF01 300.1318534 MHz  
 F2 - Processing parameters  
 ST 16384  
 SF 300.1300247 MHz  
 WDM EN  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 2.00

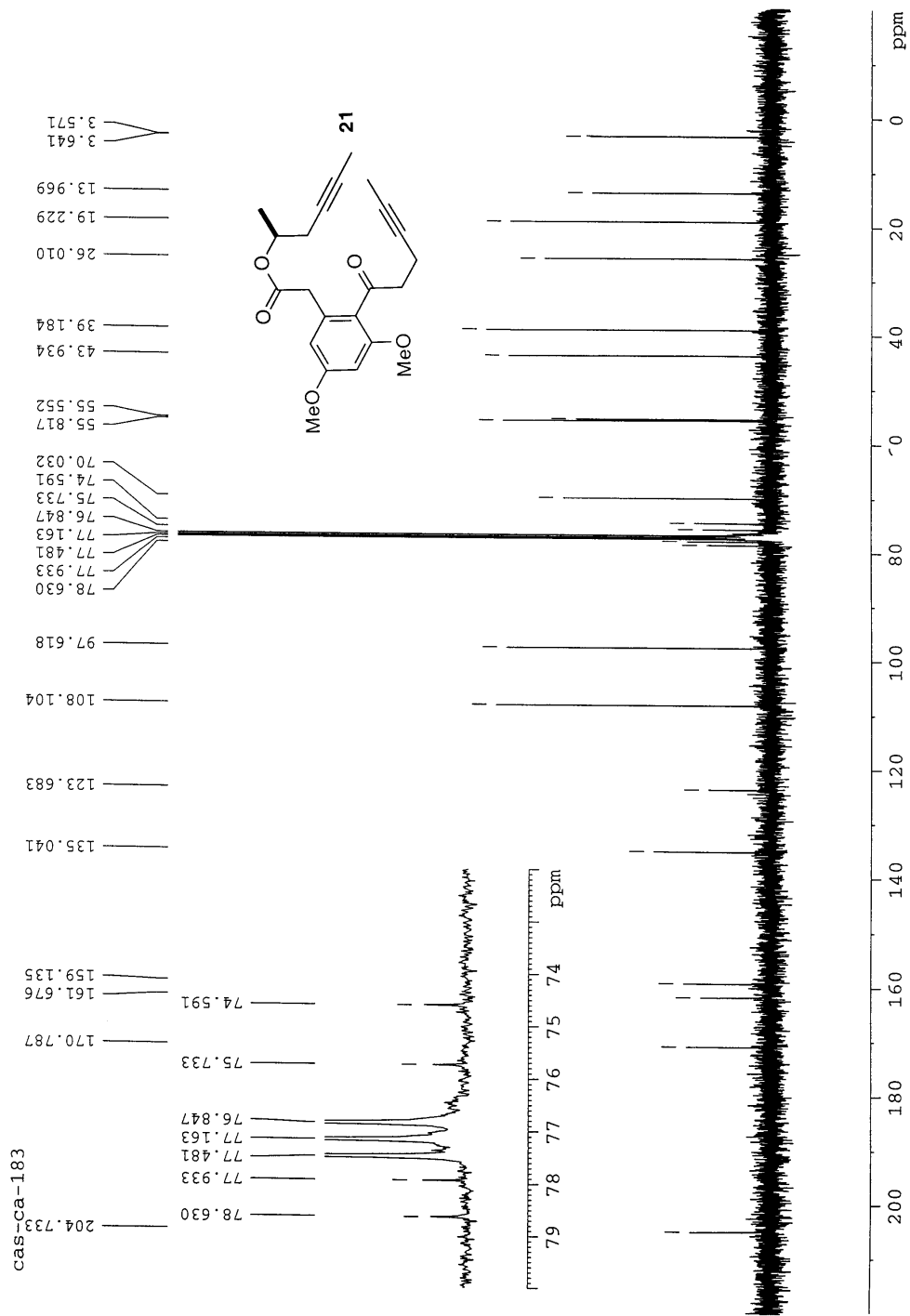
ID NMR plot parameters  
 CK 22.00 cm  
 CY 15.00 cm  
 F1P 9.500 ppm  
 F1 2851.24 Hz  
 F2P -0.500 ppm  
 F2 -150.07 Hz  
 PPMCH 0.45455 ppm/cm  
 HZCM 136.42274 Hz/cm

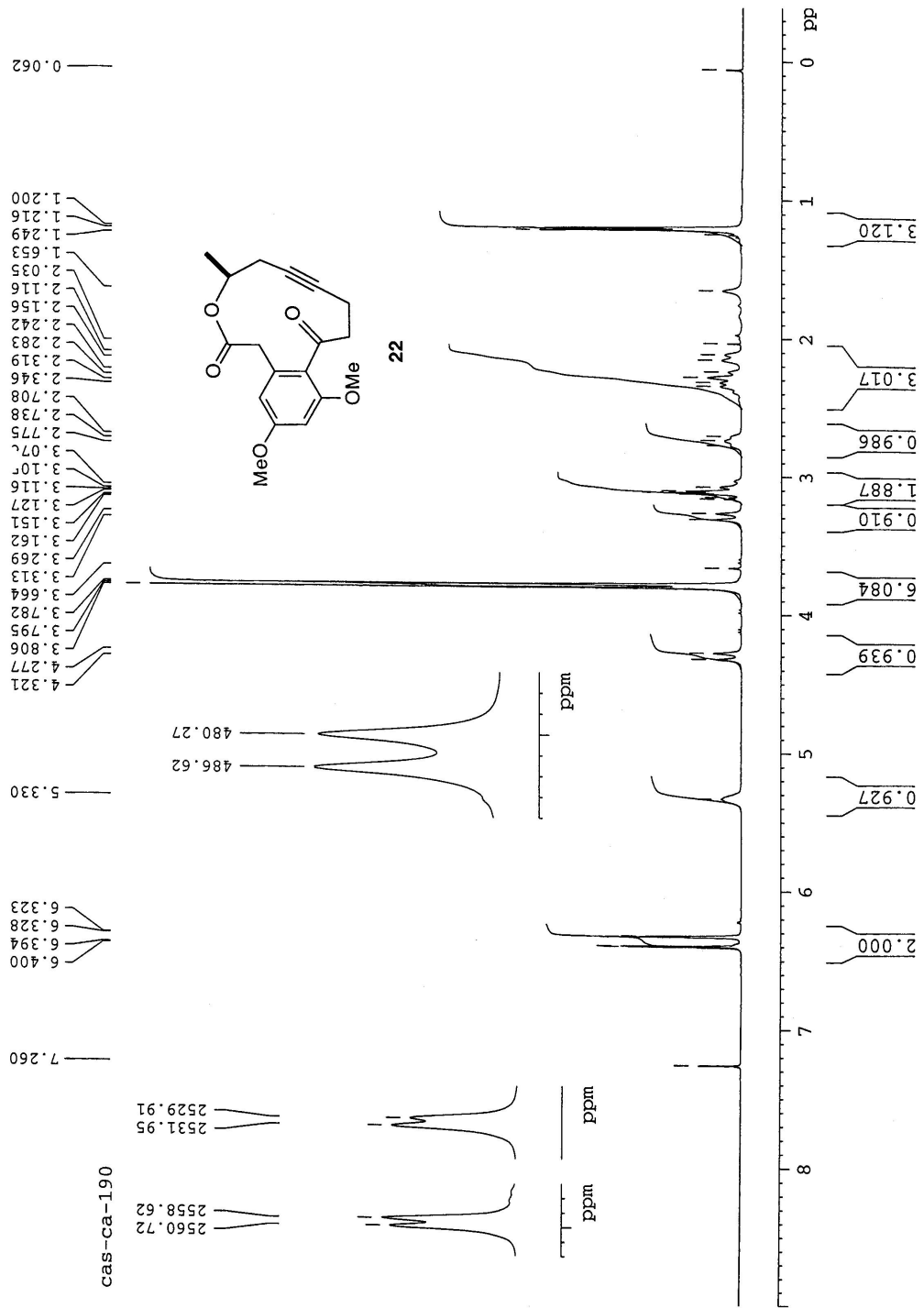


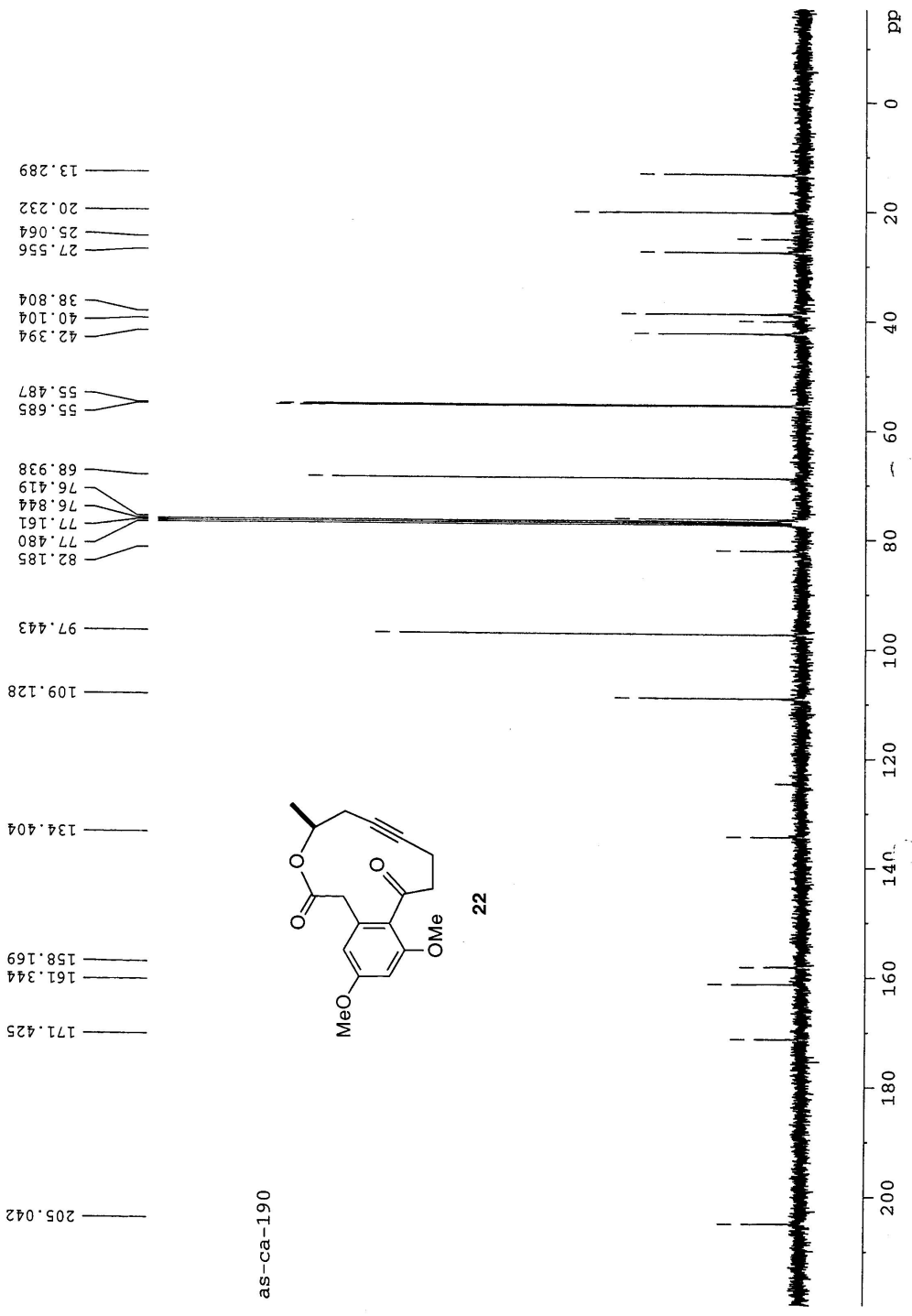
cas-ca-115-f1



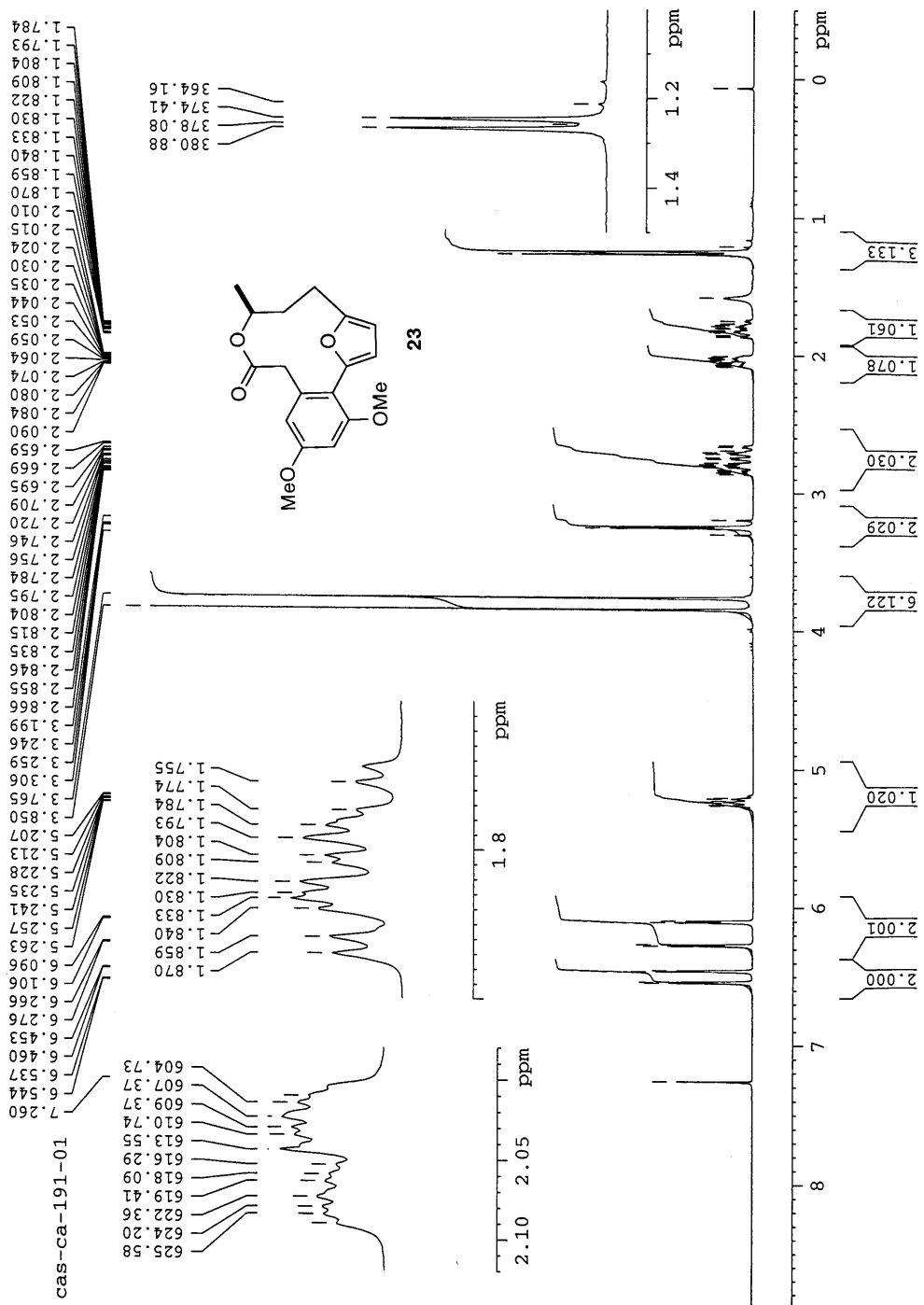




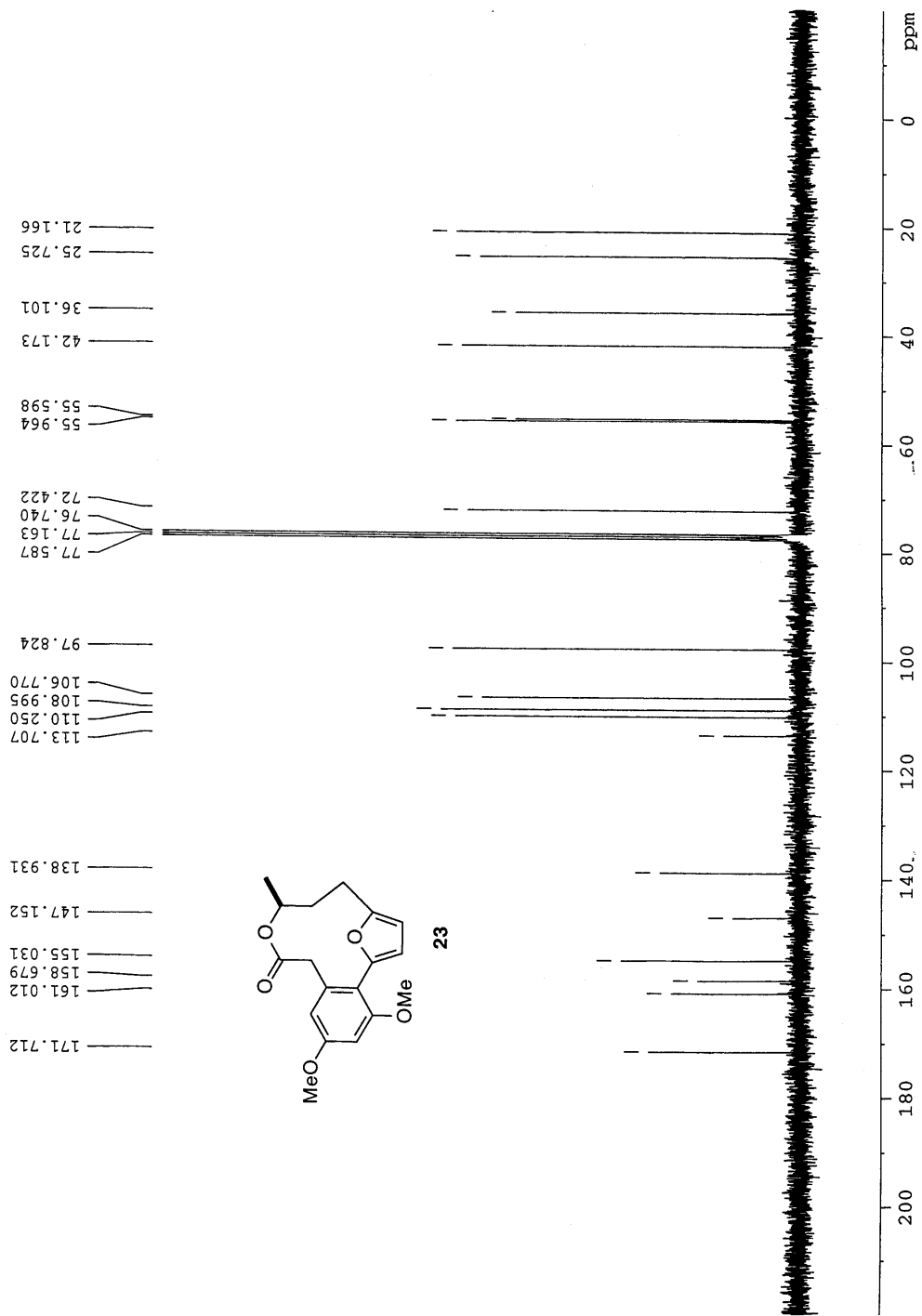




as-ca-190







H606402

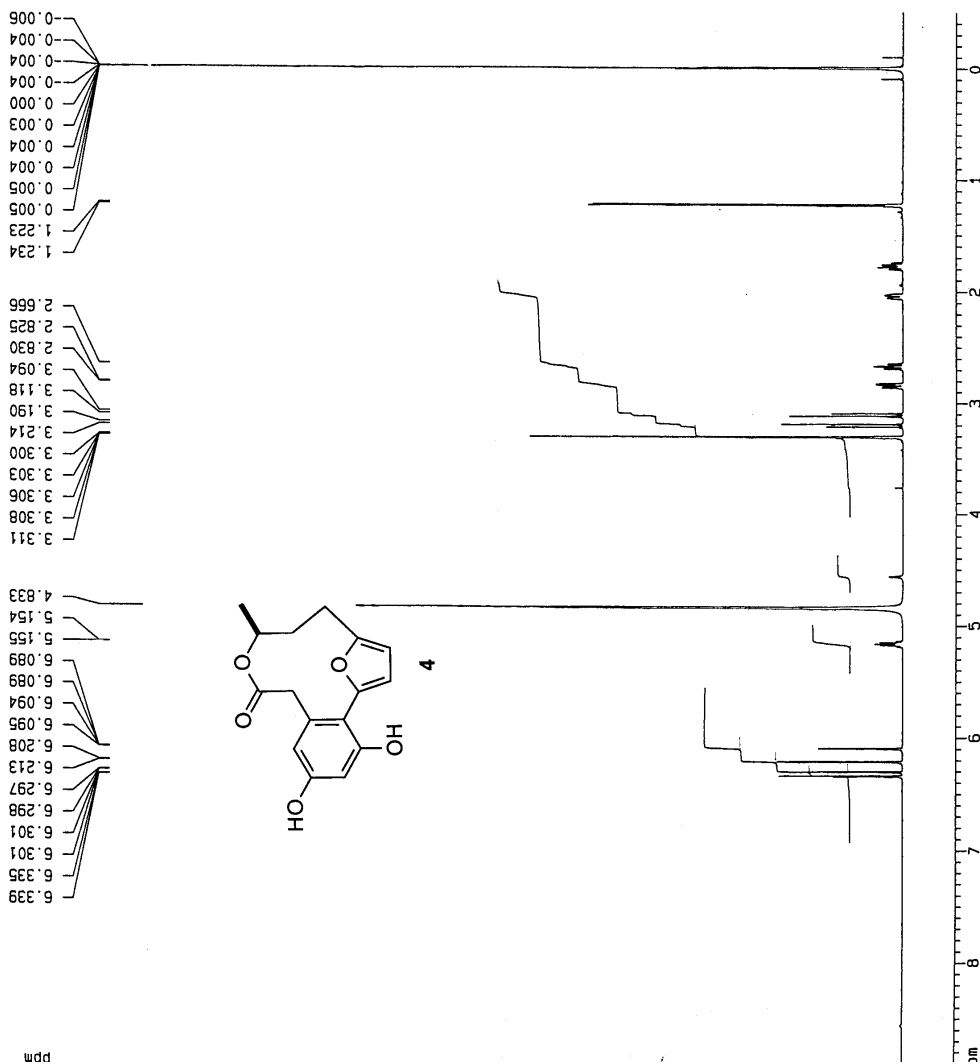
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NAME r1108710  
EXPNO 10  
PROCNO 1  
DU 1  
USER v  
bars

F2 - Acquisition Parameters  
Date\_ 20021001  
Time 15.54  
INSTRUM dm6600  
PROBHD 5 mm TXI 13C Z  
PULPROG zg30  
TD 65536  
SOLVENT MeOH  
NS 64  
DS 2  
SWH 8389.265 Hz  
FIDRES 0.128610 Hz  
AQ 3.9058956 Sec  
RG 128  
DM 59.600 usec  
DE 4.50 usec  
TE 303.0 K  
D1 1.0000000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
P1 10.00 usec  
PL1 0.00 dB  
SFO1 600.220127 MHz

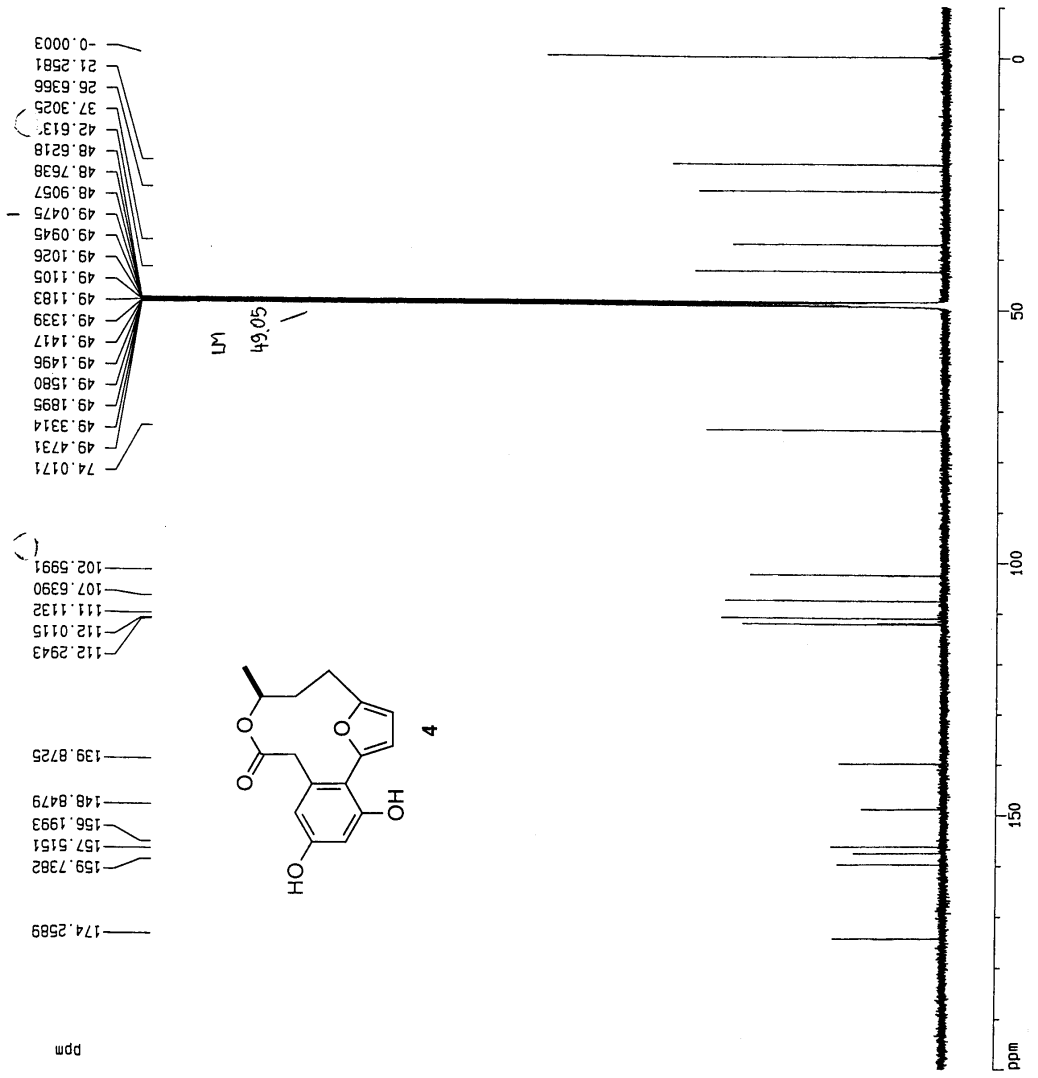
F2 - Processing parameters  
SI 65536  
SF 600.220127 MHz  
SR 12.72 Hz  
WDW no  
SSB 0  
GB 0.00 Hz  
PC 1.00

1D MMR plot parameters  
CX 20.00 cm  
CY 130.00 cm  
FIP 9.000 ppm  
F1 5401.98 Hz  
F2 -500.00 ppm  
FZ -300.11 Hz  
GAMMA 0.47950 ppm/cm  
HZEN 285.10432 Hz/cm



RKI-RA-087-10  
1H 1.MESS 1.10.02  
4.5mg d-MeOH/30 C

C606 403



Current Data Parameters  
NAME rk108710  
EXPNO 11  
PROCNO 1  
DU 1  
USER v  
date\_ 20021001  
Time 16:05  
INSTRUM dm6500  
PROBHD 5 mm TXI 13C Z  
PULPROG zgpg30  
TD 65536  
SOLVENT MeOH  
NS 67500  
DS 320  
SWH 37894.402 Hz  
FIDRES 0.573645 Hz  
AQ 0.8716891 sec  
RG 10384  
DE 13.364 usec  
TE 303.0 K  
D1 0.03000000 sec  
D11 0.03000000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 13C  
P1 16.90 usec  
PL1 0.00 dB  
SF01 150.9419346 MHz

\*\*\*\*\* CHANNEL f2 \*\*\*\*\*  
COPROG2 waltz16  
NUC2 1H  
PCPD02 70.00 usec  
PL2 3.00 dB  
PL12 18.20 dB  
SF02 600.2223000 MHz

F2 - Processing parameters  
SI 65536  
SF 150.9252191 MHz  
SR -159.89 Hz  
AQ 0  
GB 0.80 Hz  
PC 0.40

1D NMR plot parameters  
CX 20.00 cm  
CY 260.00 cm  
FIP 200.000 ppm  
F1 30185.04 Hz  
F2 -10.000 ppm  
FZ -1509.25 Hz  
PPMCH 10.50000 ppm/cm  
HZPC 1564.71472 Hz/cm

13C {1H} 4.5mg d-MeOH/30°C  
RKI-RA-087-10

