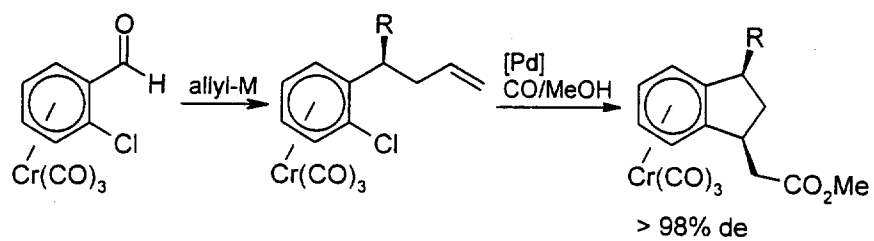
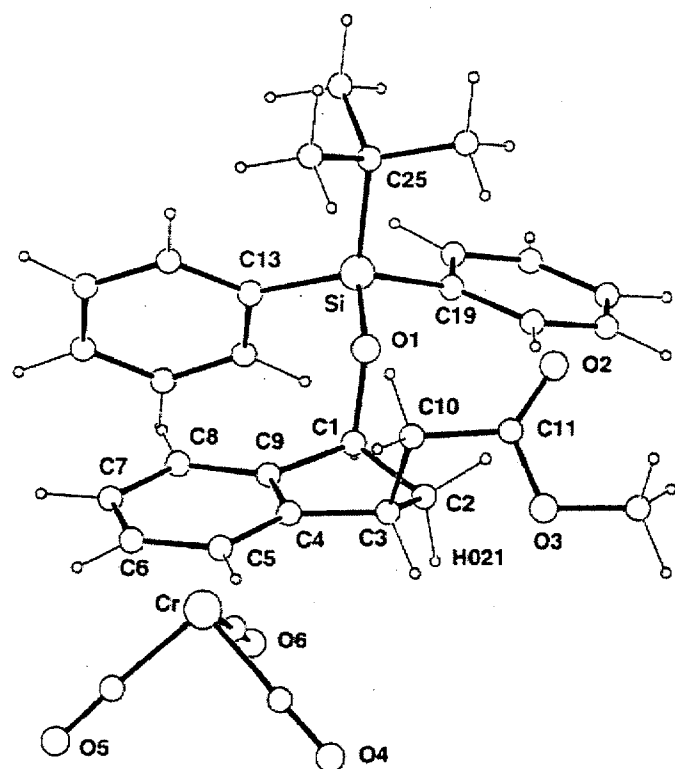


For Table of Content use only:



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X-Ray structure of complex **19**

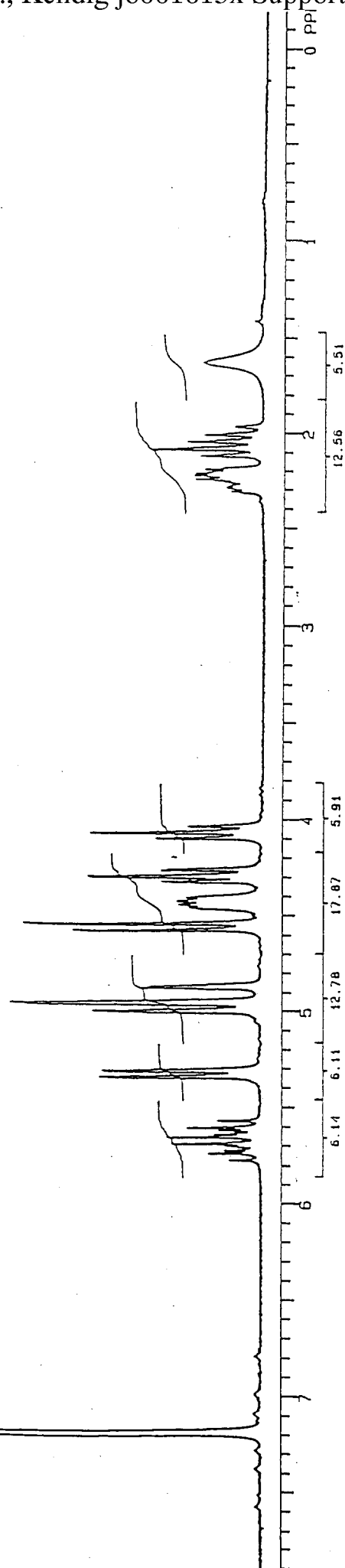
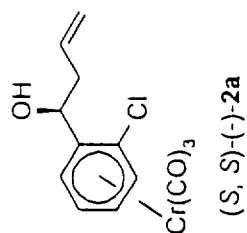


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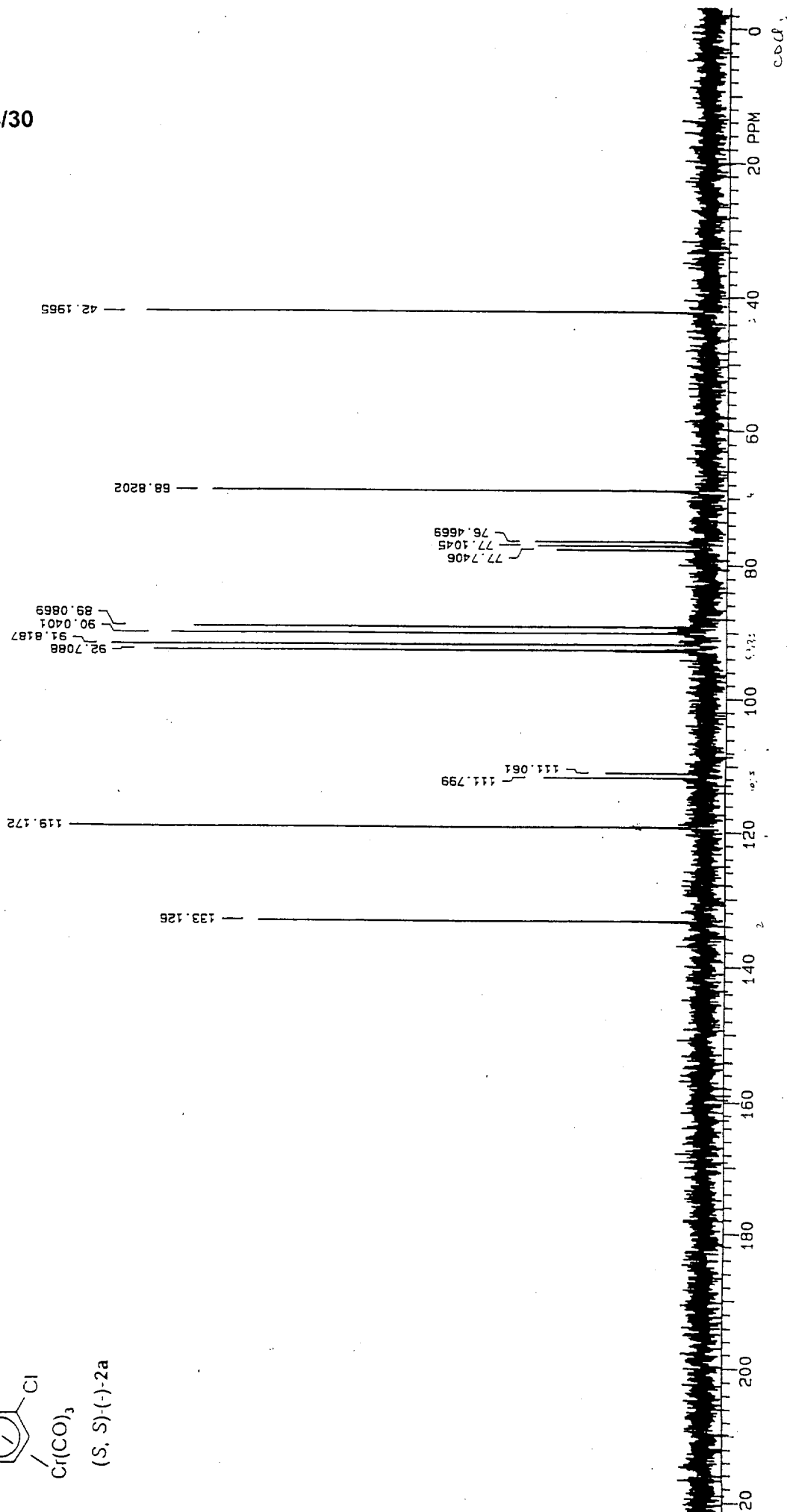
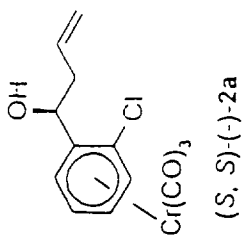
Table. Selected bond lengths (Å), bond angles and torsional angles (°) for complex 19

Cr-C4	2.224(9)	O3-C11	1.32(1)
Cr-C5	2.187(8)	O3-C12	1.45(1)
Cr-C6	2.142(8)	C1-C2	1.52(1)
Cr-C7	2.174(9)	C1-C9	1.52(1)
Cr-C8	2.273(9)	C2-C3	1.53(1)
Cr-C9	2.230(8)	C3-C4	1.50(1)
Si-O1	1.639(5)	C4-C5	1.42(1)
Si-C13	1.859(9)	C4-C9	1.41(1)
Si-C19	1.856(7)	C5-C6	1.39(1)
Si-C25	1.890(8)	C6-C7	1.43(1)
O1-C1	1.439(9)	C7-C8	1.42(1)
O2-C11	1.19(1)	C8-C9	1.43(1)
C29-Cr-C30	91.1(4)	C5-C4-C9	120.8(8)
C29-Cr-C31	86.1(4)	C4-C5-C6	118.3(7)
C30-Cr-C31	88.7(4)	C5-C6-C7	120.9(7)
Si-O1-C1	124.1(4)	C6-C7-C8	122.1(9)
C2-C1-C9	102.3(6)	C7-C8-C9	115.6(8)
C1-C2-C3	105.8(6)	C1-C9-C4	109.8(7)
C2-C3-C4	102.9(6)	C1-C9-C8	127.9(7)
C3-C4-C5	129.2(7)	C4-C9-C8	122.2(7)
C3-C4-C9	110.0(6)		
Si-O1-C1-C2	137.4(5)	C1-C2-C3-C4	29.1(8)
Si-O1-C1-C9	-110.6(6)	C1-C2-C3-C10	-88.9(8)
O1-C1-C2-C3	87.2(7)	C2-C3-C4-C9	-17.6(8)
C9-C1-C2-C3	-29.3(8)	C10-C3-C4-C9	103.2(7)
O1-C1-C9-C4	-98.5(7)	C3-C10-C11-O2	122.8(9)
O1-C1-C9-C8	78(1)	C3-C10-C11-O3	-53.3(9)
C2-C1-C9-C4	19.0(8)		

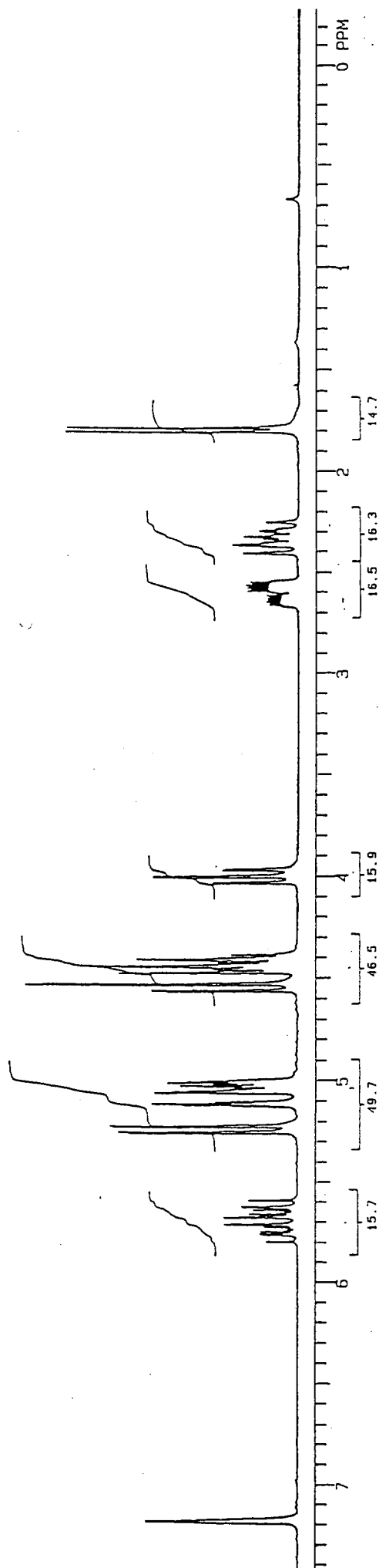
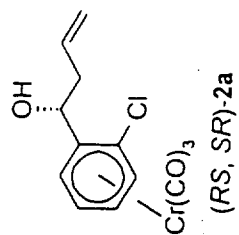
S 3/30



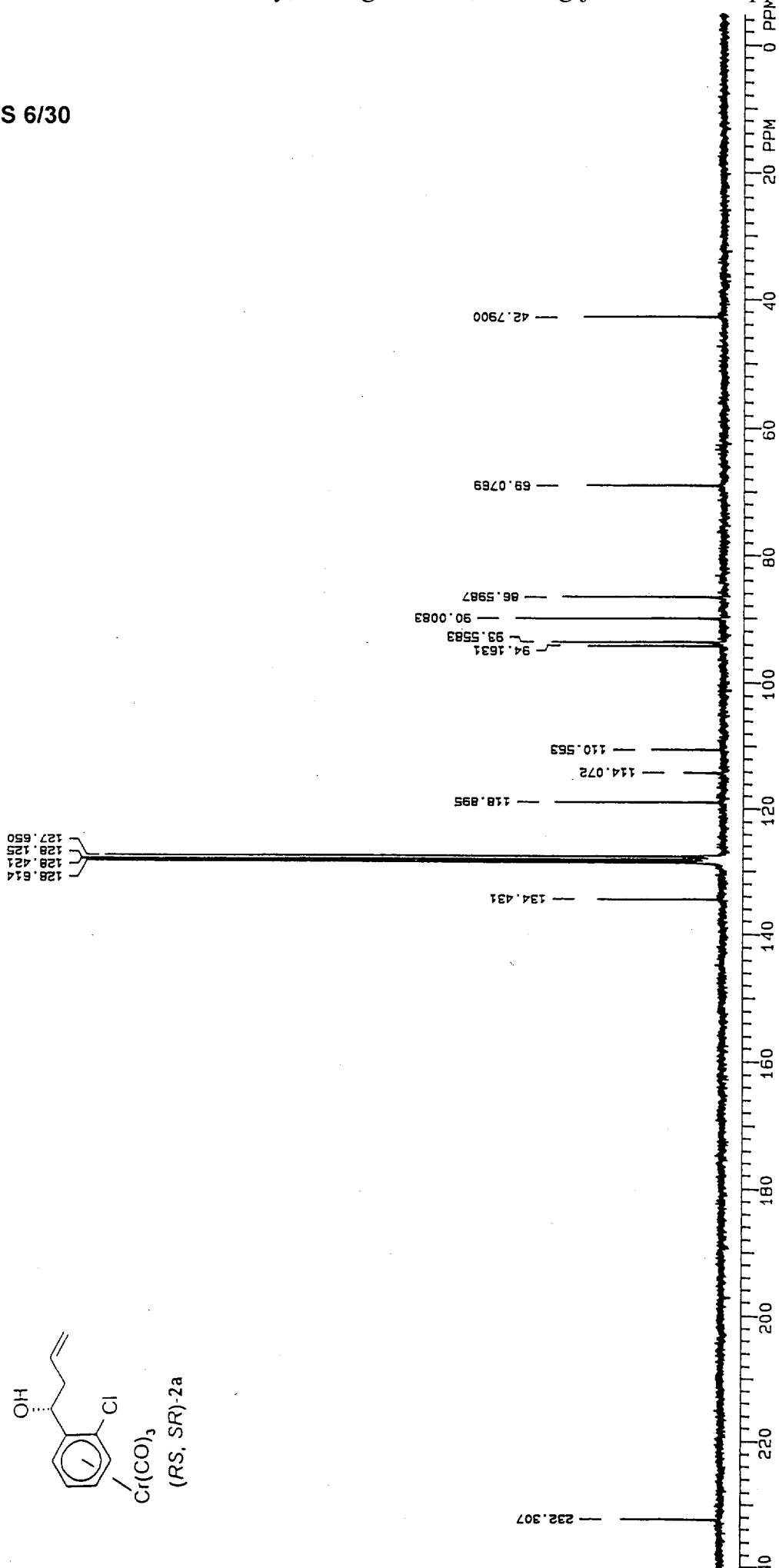
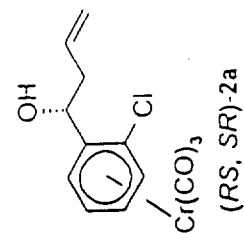
S 4/30



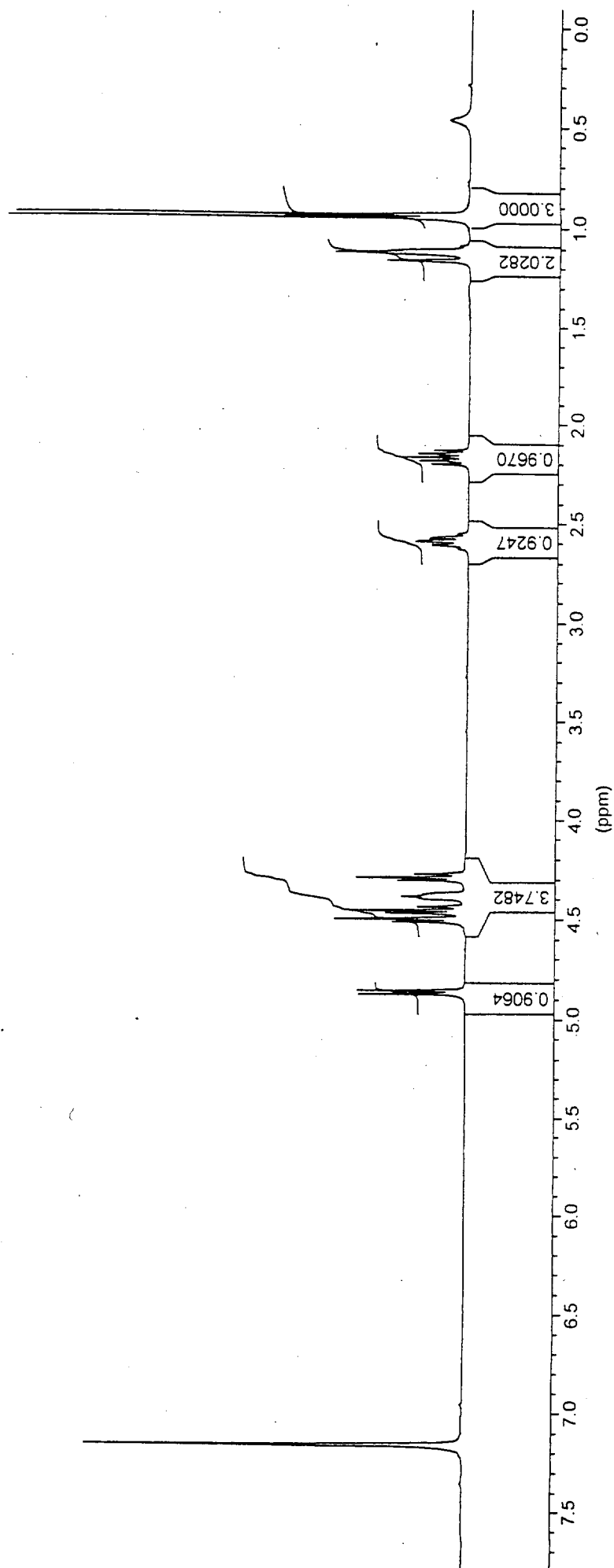
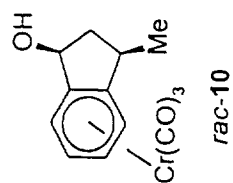
S 5/30

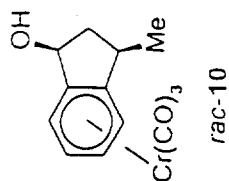


S 6/30

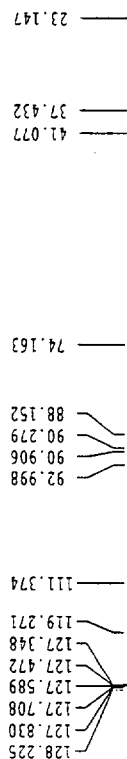


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F2 - Acquisition Parameters
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 Time 18.01
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 PULPROG zgpg30
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 SOLVENT C6D6
 NS 6144
 DS 2
 SWH 27173.912 Hz
 FIDRES 0.414641 Hz
 AQ 1.2059124 sec
 RG 4096
 DW 18.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

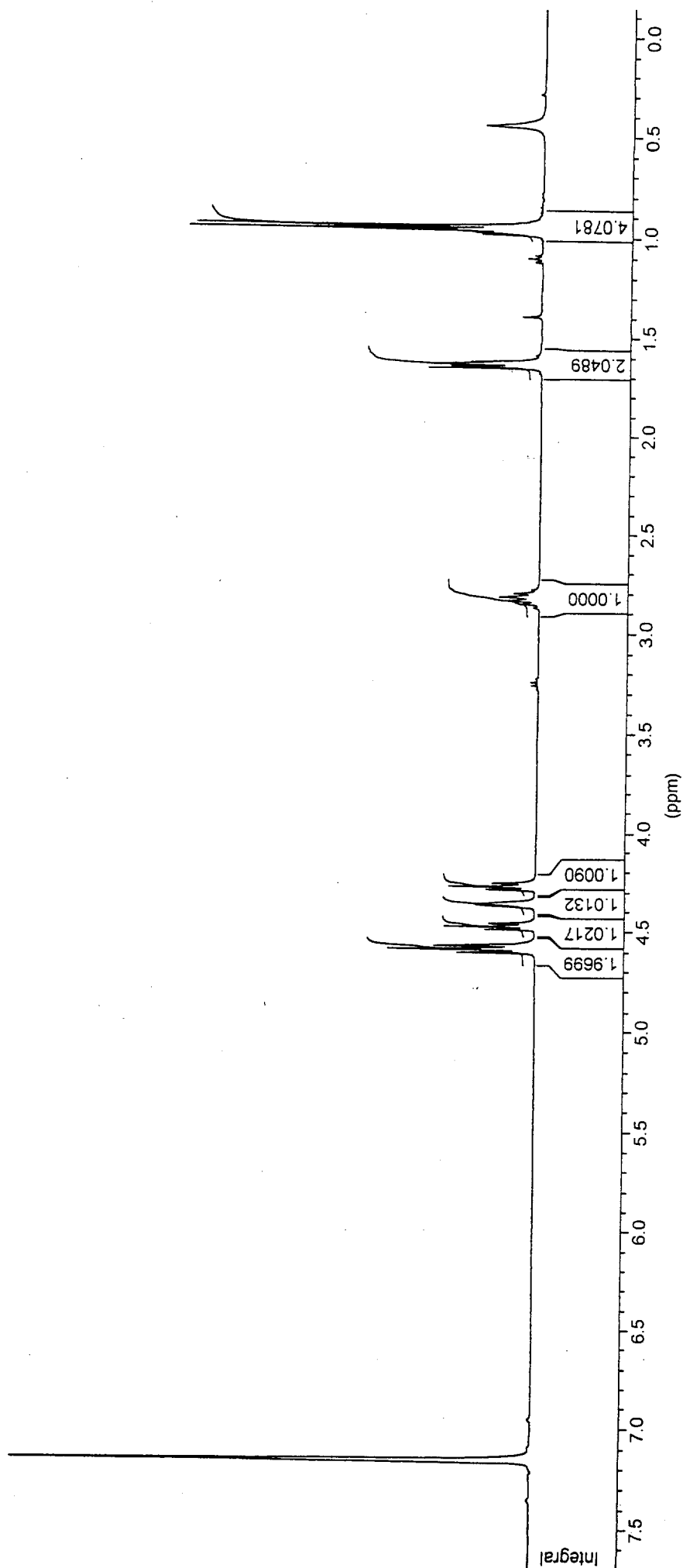
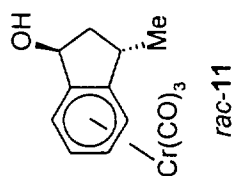
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 PL1 -5.00 dB
 SFO1 100.6237959 MHz

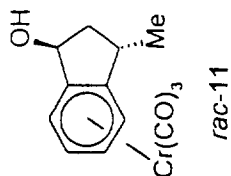
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 NUC2 1H
 PCPD2 80.00 usec
 PL2 -5.00 dB
 PL12 13.00 dB
 PL13 13.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
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 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

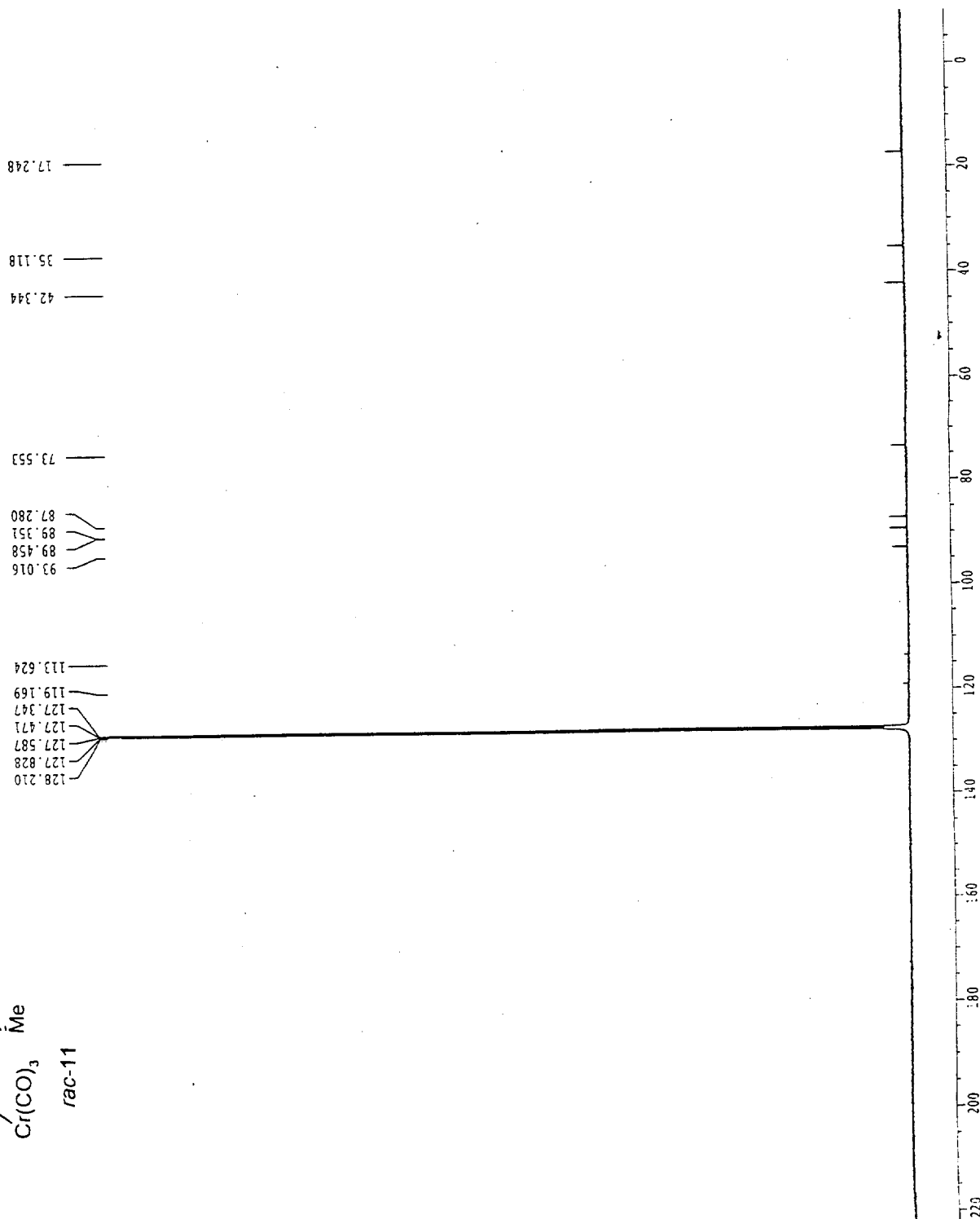
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 F1P 240.000 ppm
 F1 24147.07 Hz
 F2P -10.000 ppm
 F2 -1006.13 Hz
 PPMCM 8.33333 ppm/cm
 HZCM 838.43982 Hz/cm

S 9/30





C13CPD C6D6 u guest 6



S 10/30

F2 - Acquisition Parameters

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Time 8.43
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PULPROG zgpg30
TD 65536
SOLVENT C6D6
NS 682
DS 2
SWH 27173.912 Hz
FIDRES 0.414641 Hz
AQ 1.2059124 sec
RG 2048
DM 18.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec
d11 0.03000000 sec
d12 0.0002000 sec

===== CHANNEL f1 =====

NUC1 13C
P1 7.20 usec
PL1 -5.00 dB
SF01 100.6237959 MHz

===== CHANNEL f2 =====

CPDPRG2 waltz16
NUC2 1H
P2 80.00 usec
PL2 -5.00 dB
PL12 13.00 dB
PL13 13.00 dB
SF02 400.1316005 MHz

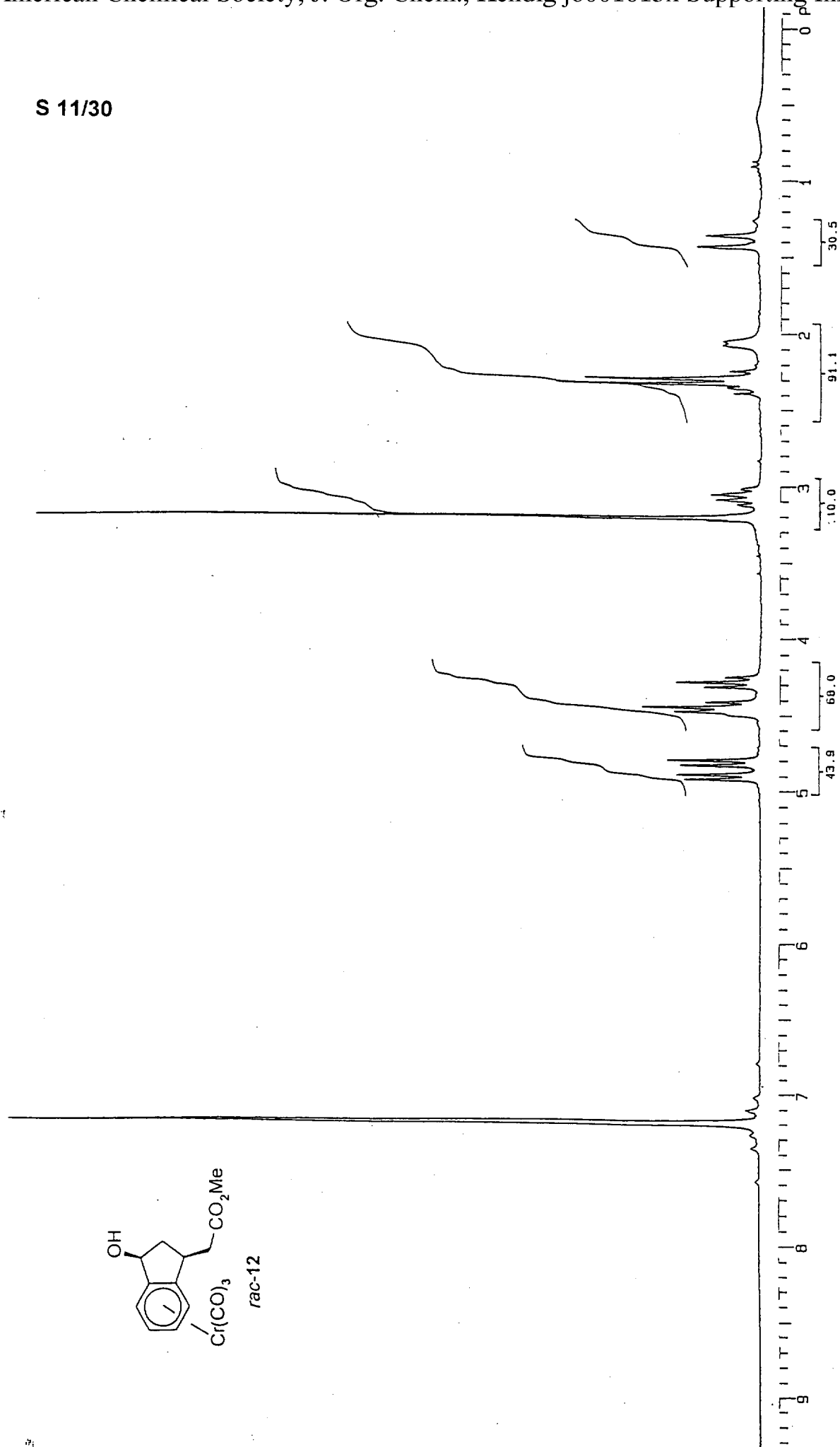
F2 - Processing parameters

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SF 100.6127786 MHz
WDW EM
SSB 0
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PC 1.40

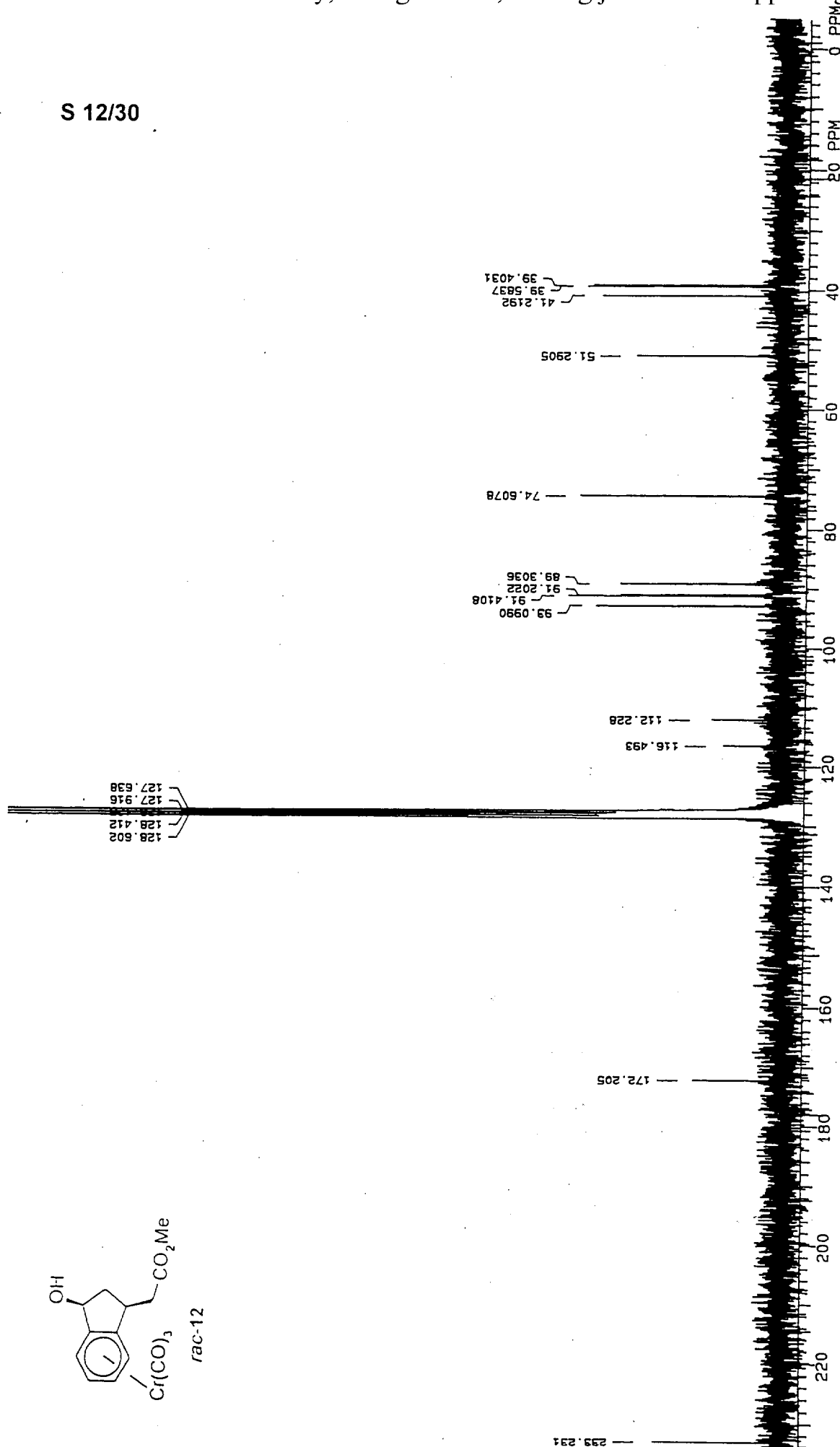
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CX 30.00 cm
F1P 240.000 ppm
F1 24147.07 Hz
F2P -10.000 ppm
F2 -1006.13 Hz
PPMCM 8.33333 ppm/cm
HZCM 838.43982 Hz/cm

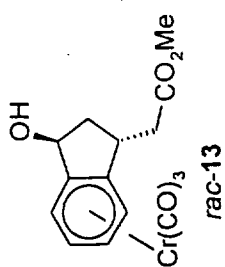
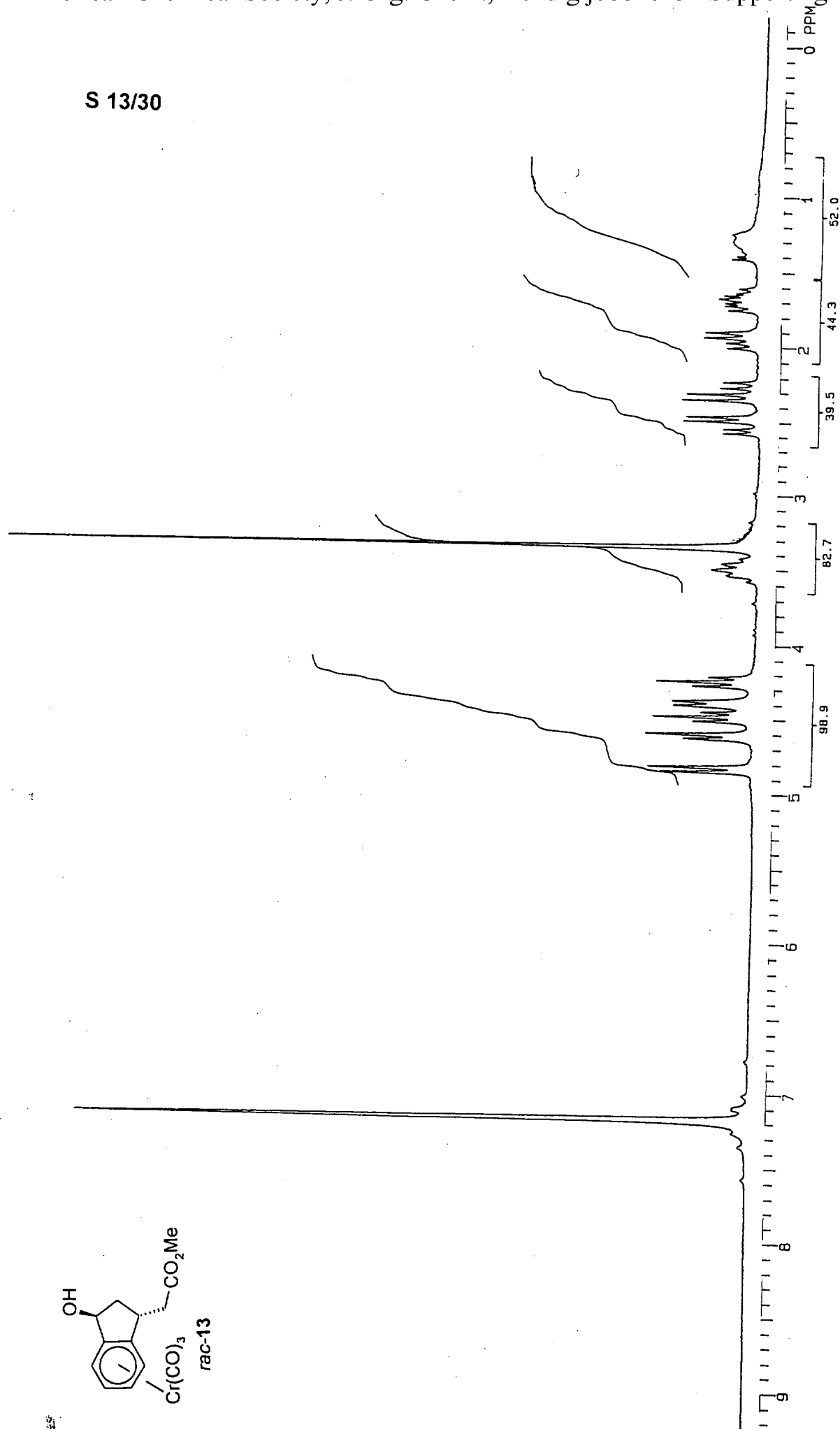
S 11/30



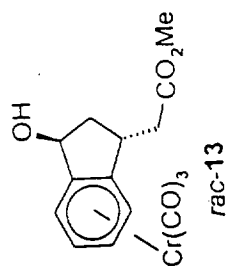
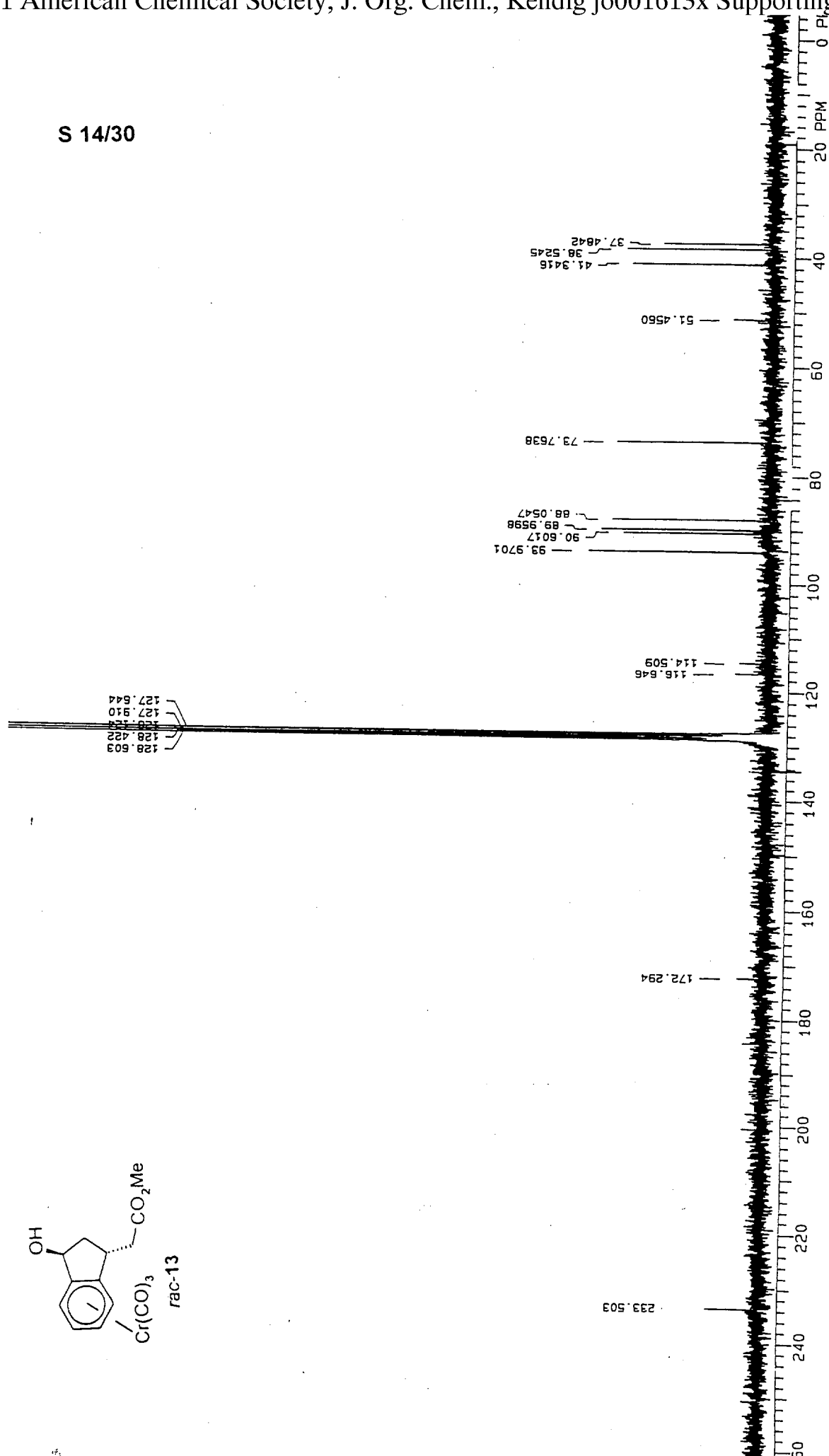
S 12/30



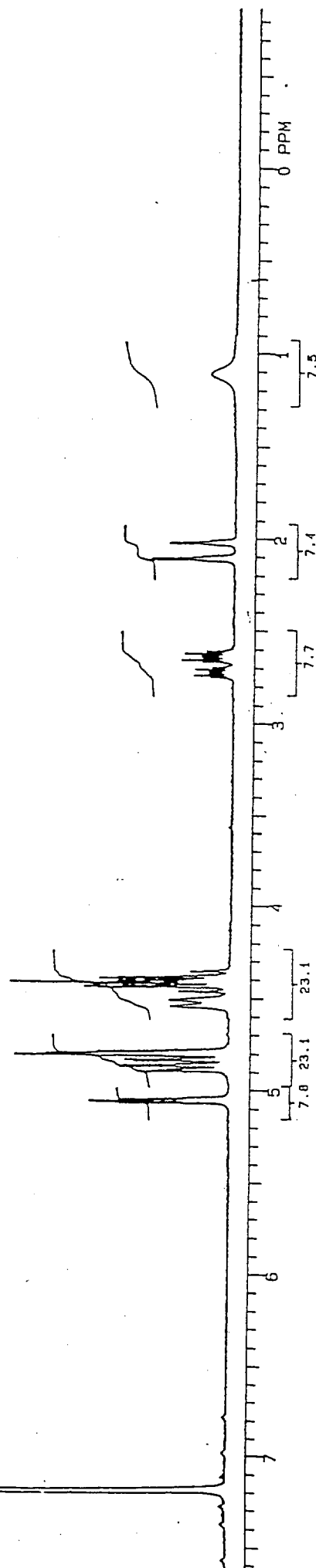
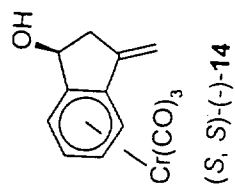
S 13/30



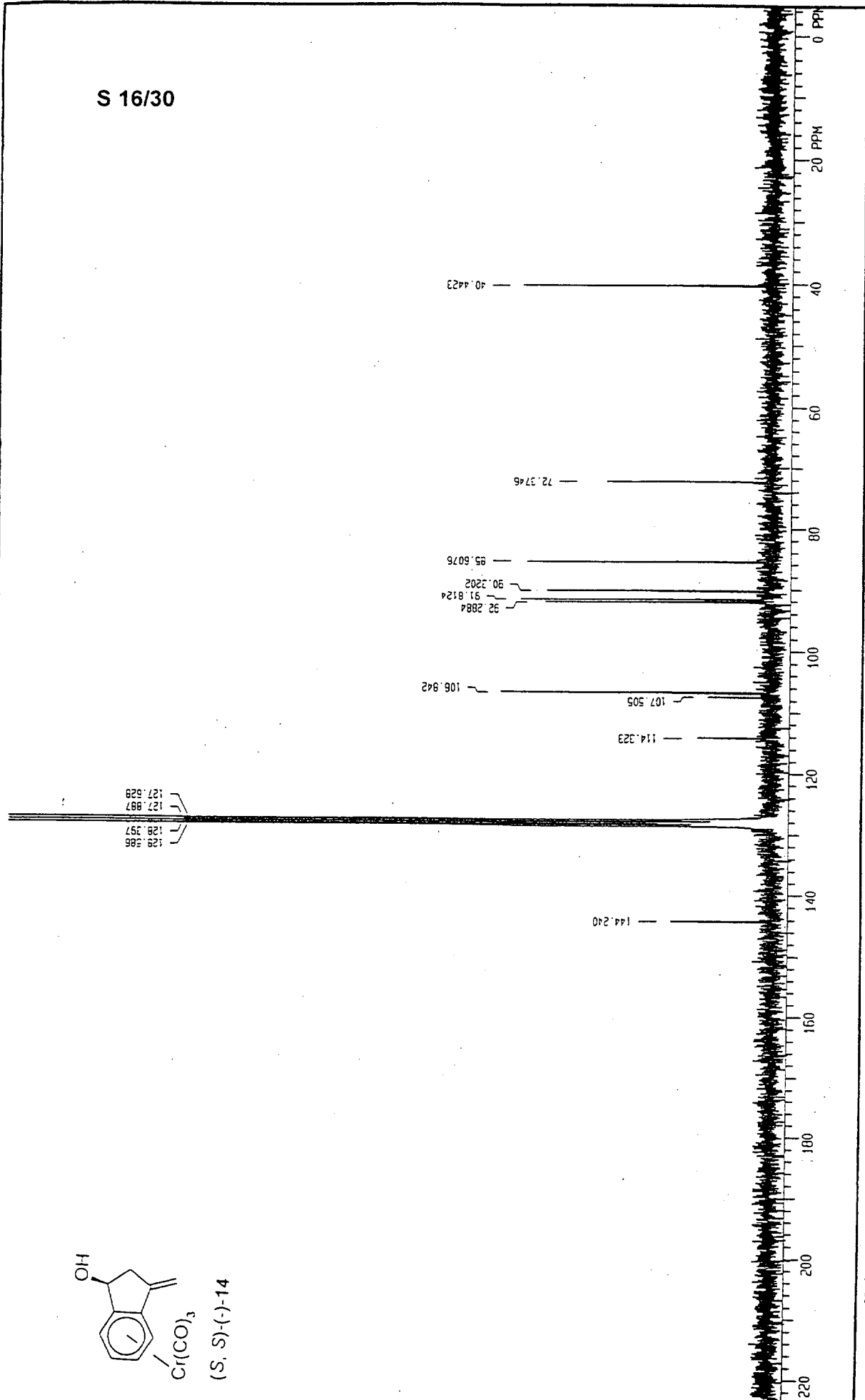
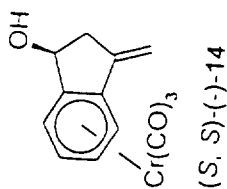
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Number _____
 File _____
 Date 01-03-97
 XL 0.04 200

SAMPLE
 BENZOL CF06/
 C13-CH JPS

Pulse Sequence _____
 Tube OD _____ mm
 Temp _____ °C
 Solvent _____

EXPERIMENT

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 LB 0.100 Hz AF _____ sec CD _____ sec
 Width 127.22 Hz/ppm Start 231.1 Hz/ppm
 Reference _____

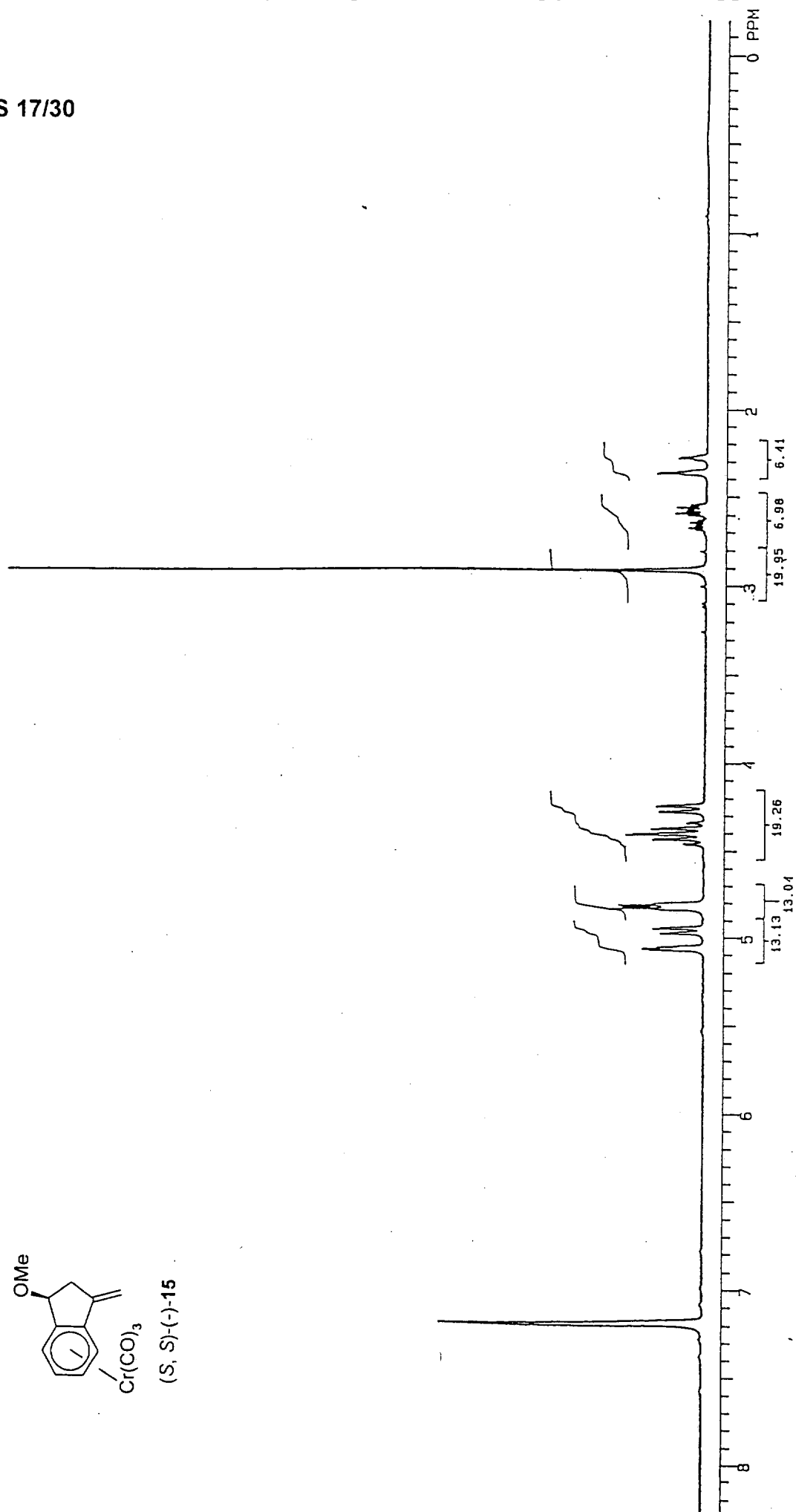
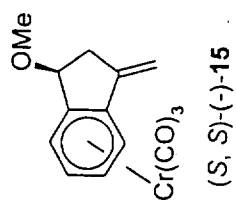
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 Mode 13C Power 1.00 dB
 Modulation Mode 0 Freq 127.22 Hz
 Pulse Width 11.0 µsec Power Mode 1.0

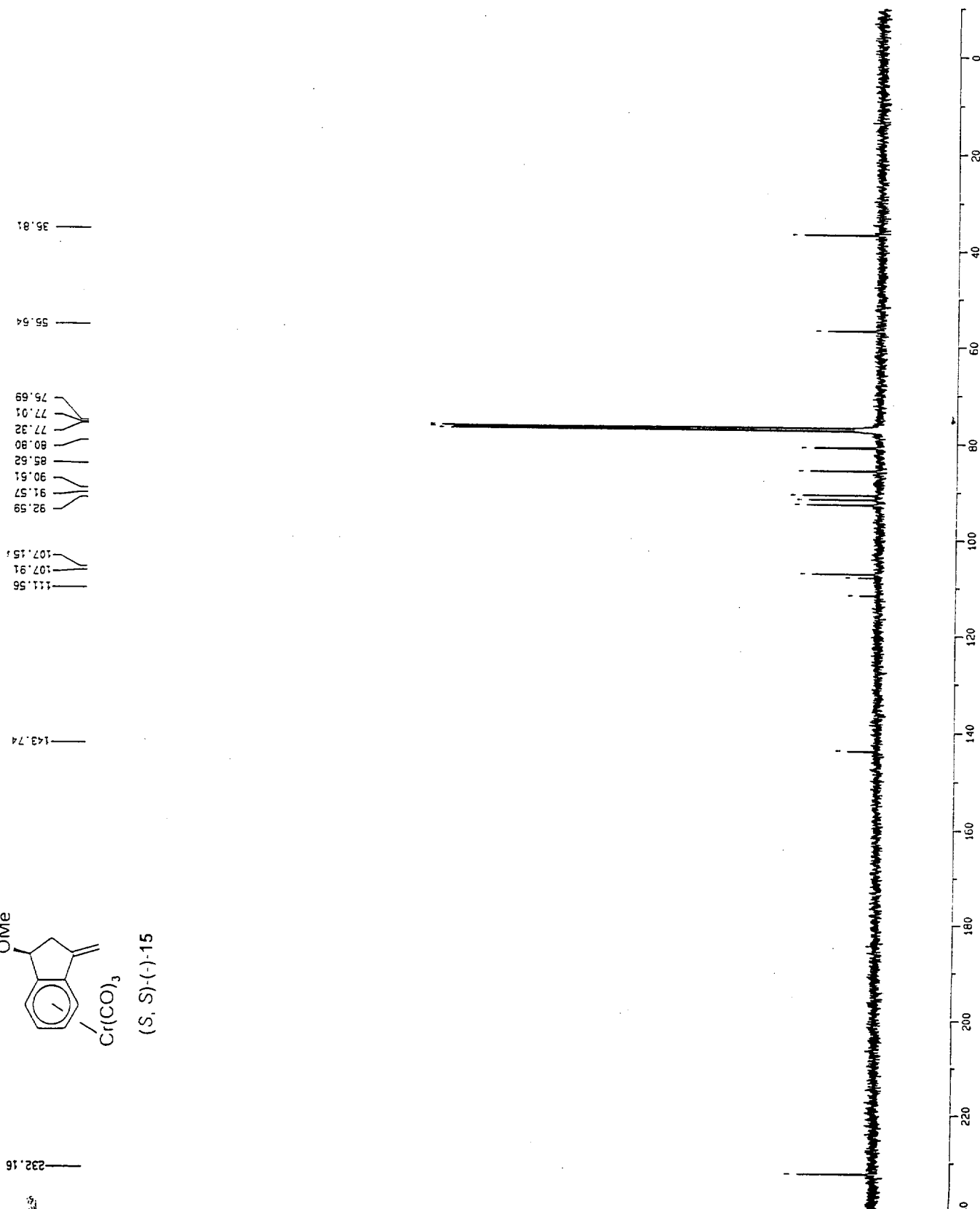
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 Offset 0 Hz
 Delay 0 sec
 Trans 4570 µsec

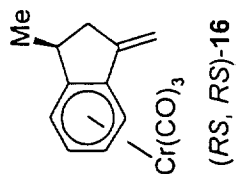
S 17/30



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PROCNO	1
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DM	16.0 usec
RG	32768
NUCLEUS	13C
HL1	2 dB
D1	1.0000000 sec
S2	15 dB
DE	6.7 usec
DSF01	22.9 usec
SWH	100.6248040 MHz
TD	31250.00 Hz
UD	65536
US	1768
NS	2
F2 - Processing parameters	
SI	32768
SF	100.6136698 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.00
F2 - NMR plot parameters	
XD	32.25 cm
Y1P	250.000 ppm
F1	25153.47 Hz
ZP	-10.000 ppm
F2	-1006.14 Hz
PPHCH	8.06202 ppm/cm
YCHM	811.15057 Hz/cm



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0.6891
0.7487

1.7976
1.7904
1.7246

2.7329
2.7035
2.6883
2.6555

4.3727
4.3798
4.4036
4.4133
4.5139
4.5393

4.7941
4.8058
4.9256
4.9581
5.0555
5.0686

7.1746

Number _____
File _____
Date _____
XL _____

SAMPLE

Pulse Sequence _____
Tube O.D. _____ mm
Temp _____ °C
Solvent _____

EXPERIMENT

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LB _____ Hz AF _____ sec
Width _____ Hz/ppm Start _____ Hz/ppm
Reference _____

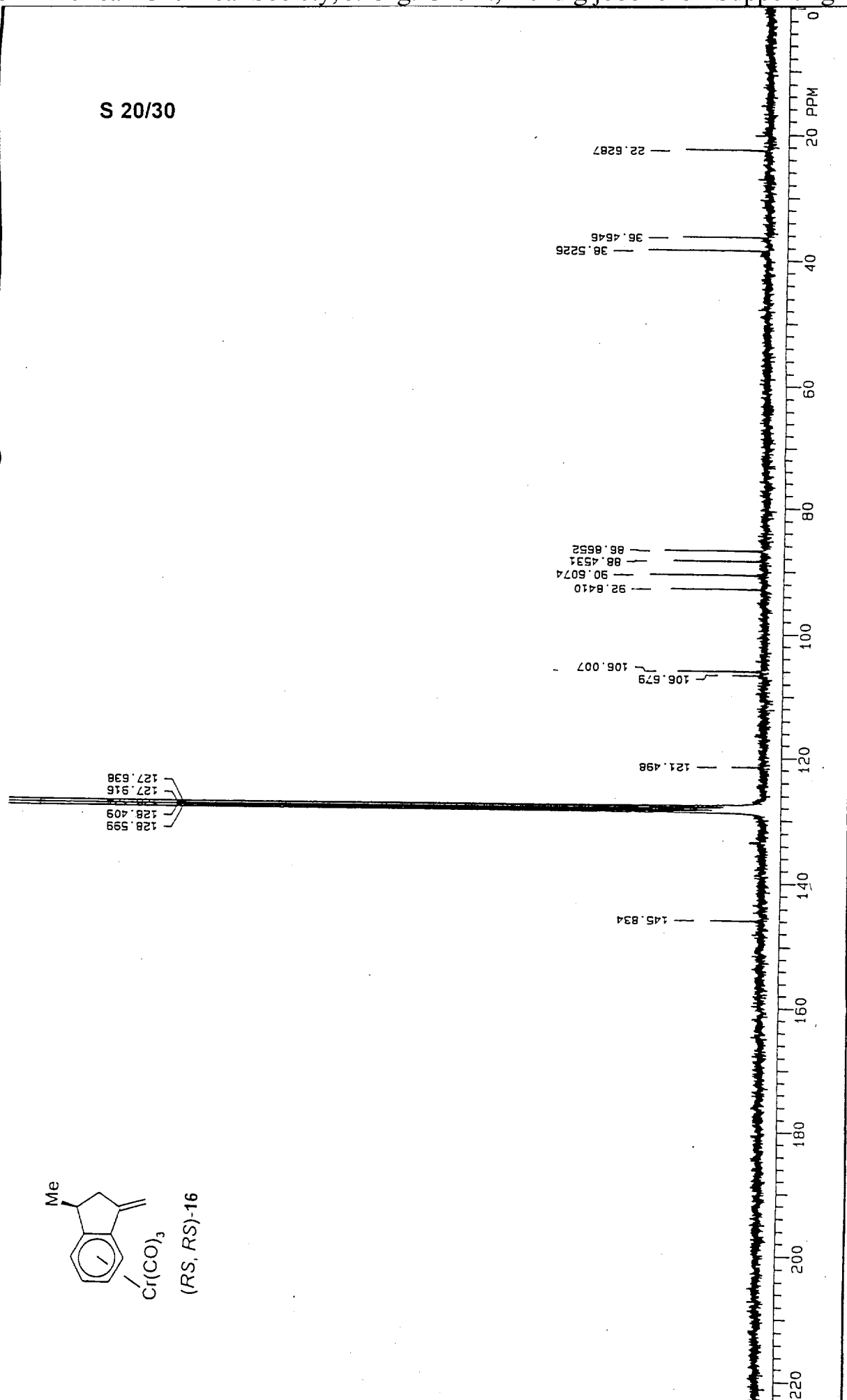
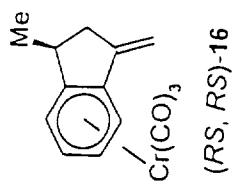
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Freq _____ Hz
Modulation Mode _____
Pulse Width _____ μsec
Power Mode _____

DECOUPLE

Freq _____ MHz
Offset _____ Hz
Delay _____ sec
Transients _____

S 20/30



Number _____
File _____
Date _____
XL _____

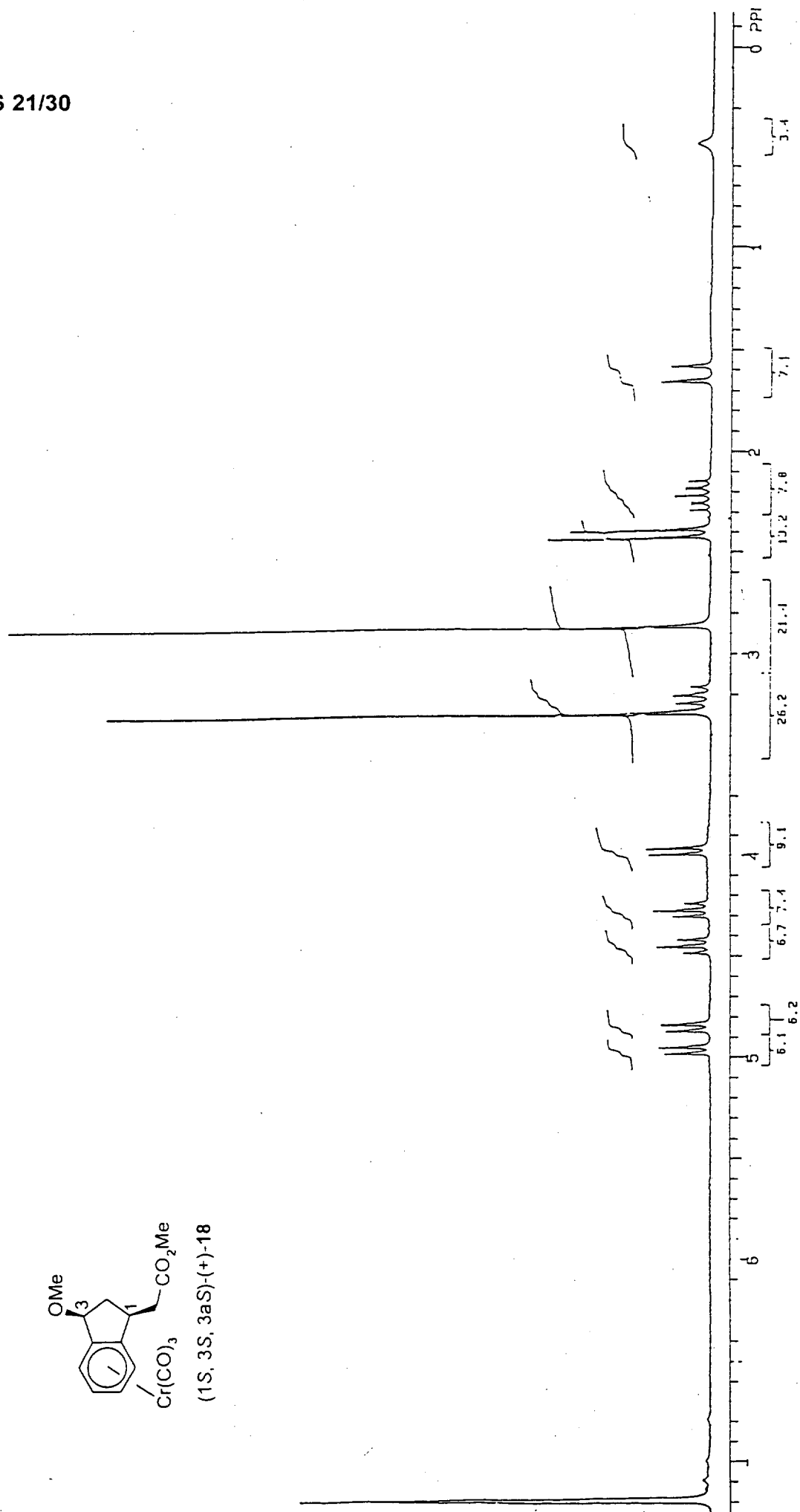
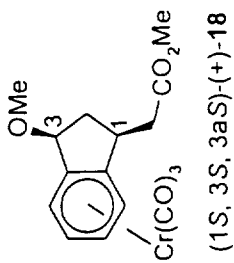
SAMPLE
Pulse Sequence _____
Tube O.D. _____ mm
Temp _____ °C
Solvent _____

EXPERIMENT
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LB _____ Hz AF _____ sec
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Reference _____

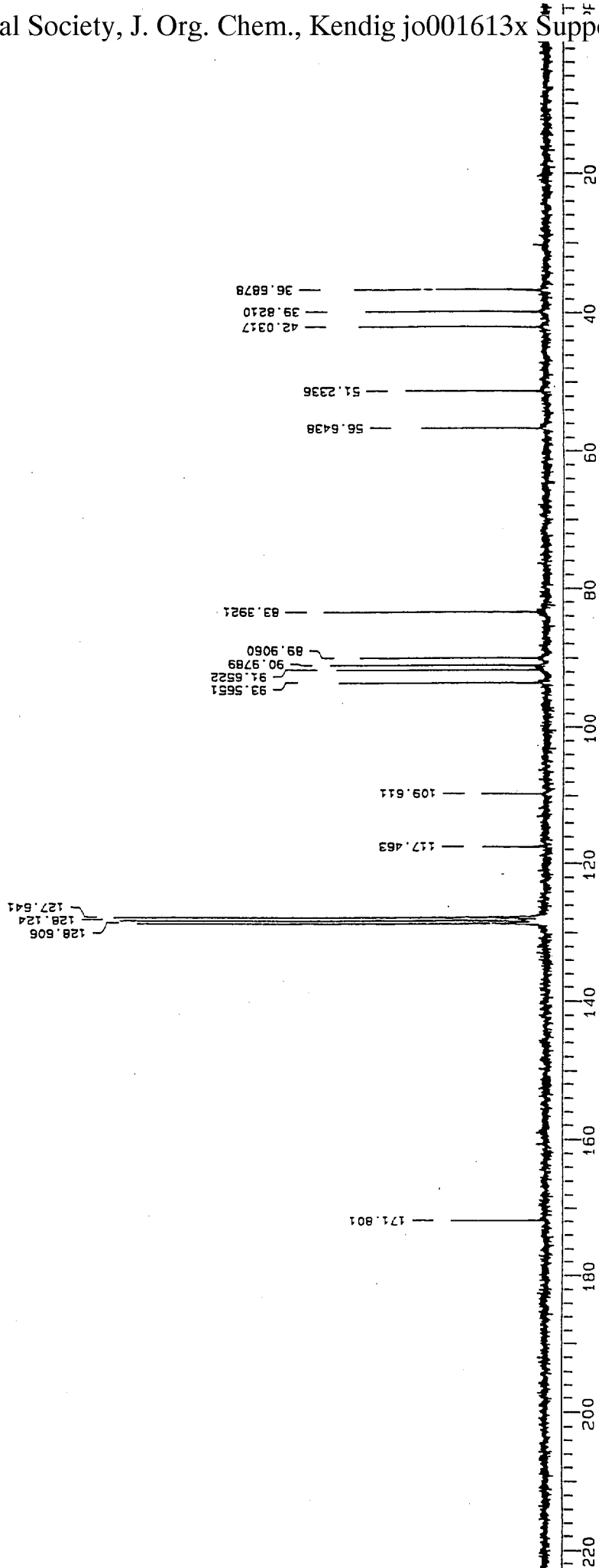
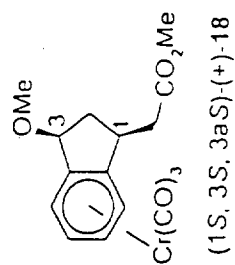
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Nucleus _____ Mode _____
Modulation Mode _____
Pulse Width _____ μsec
Offset _____ Hz
Power _____ dB
Freq _____ Hz
Power Mode _____

DECOUPLE
Freq _____ MHz
Offset _____ Hz
Delay _____ sec
Transients _____

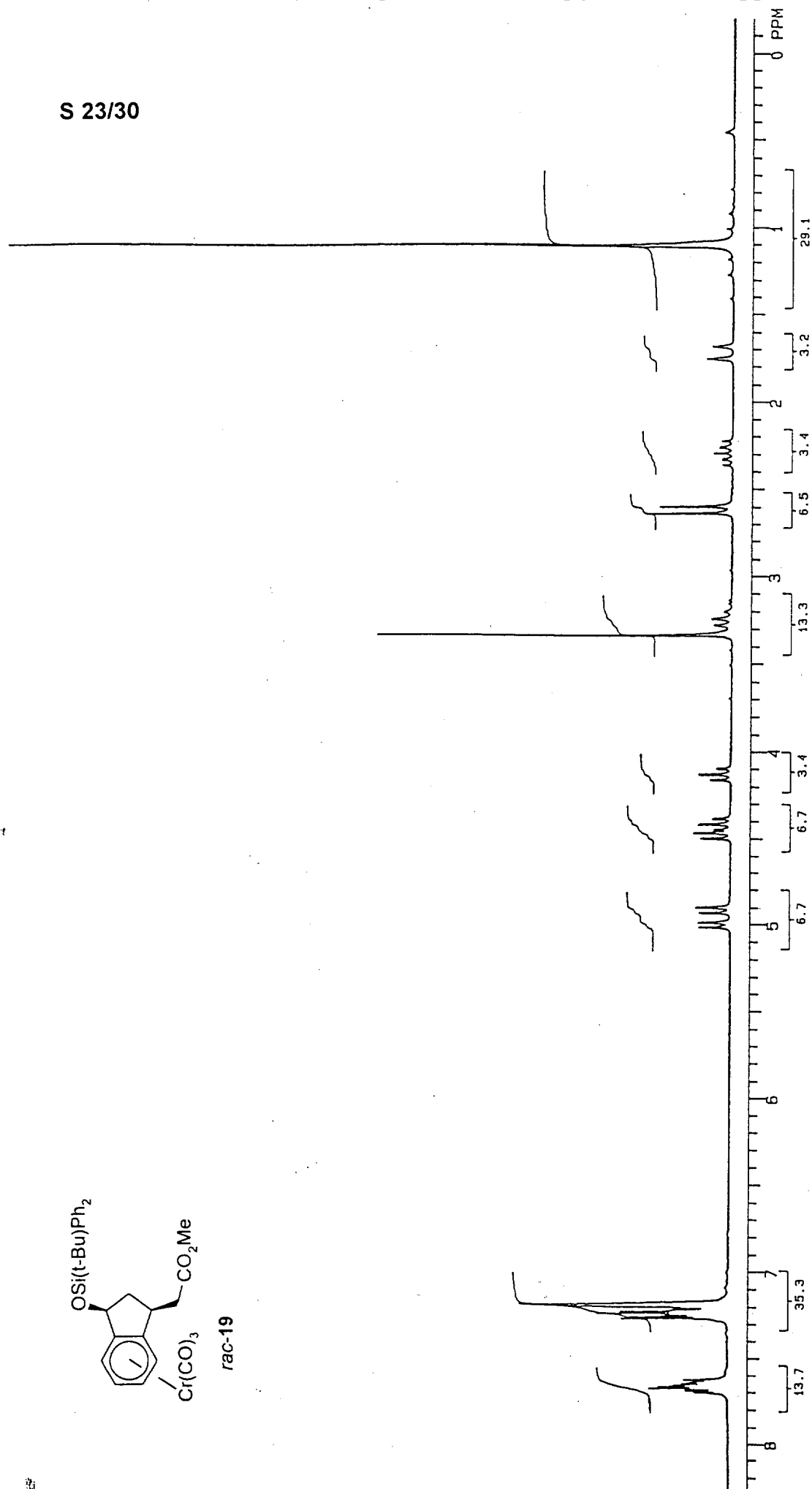
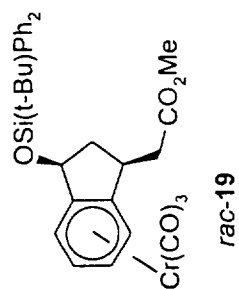
S 21/30



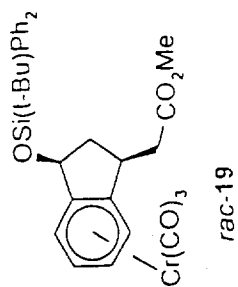
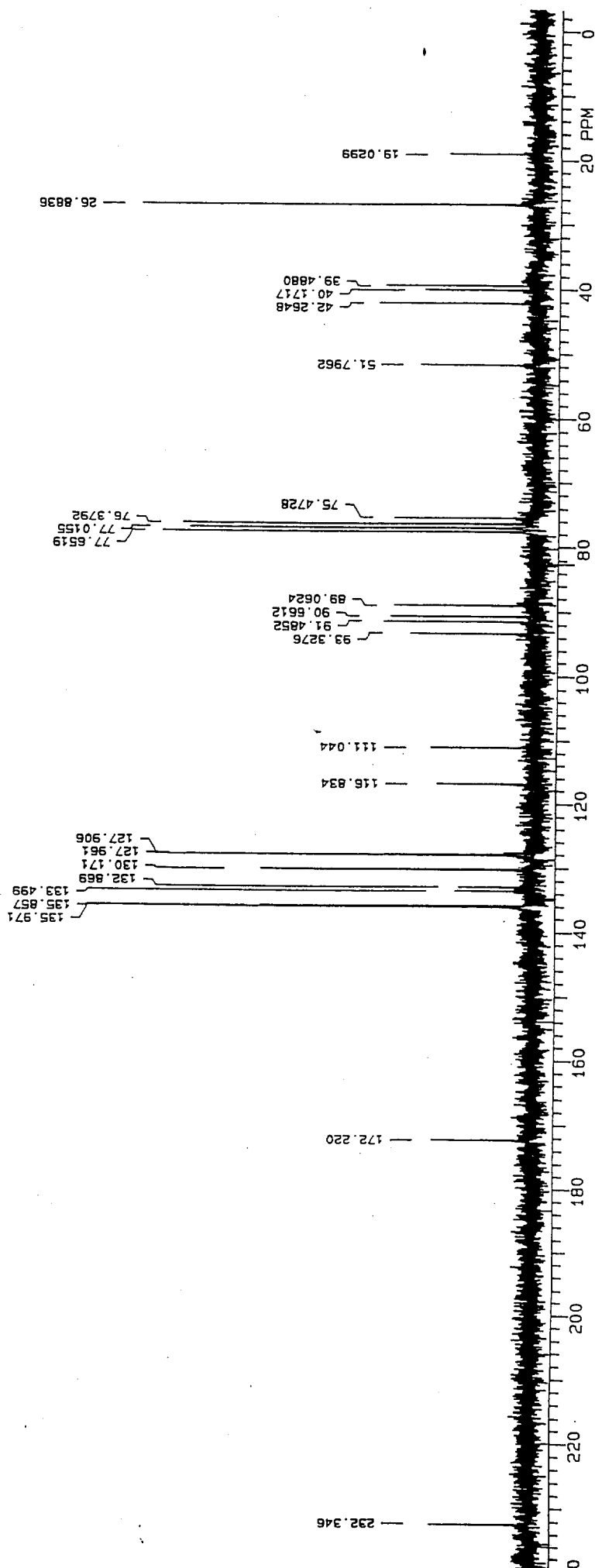
S 22/30

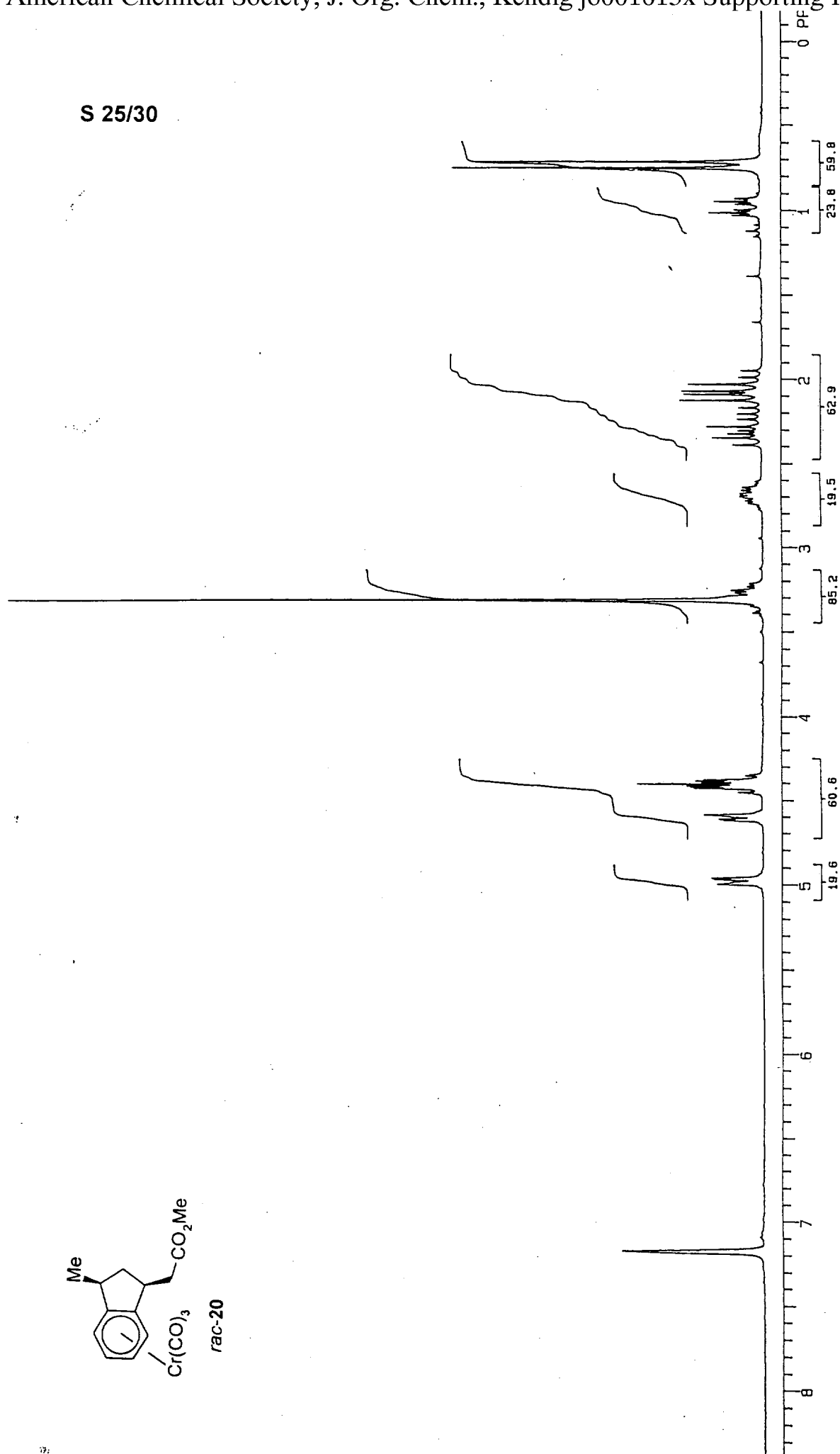
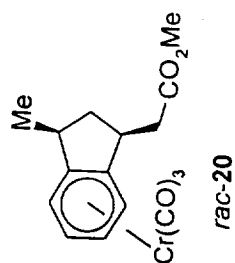


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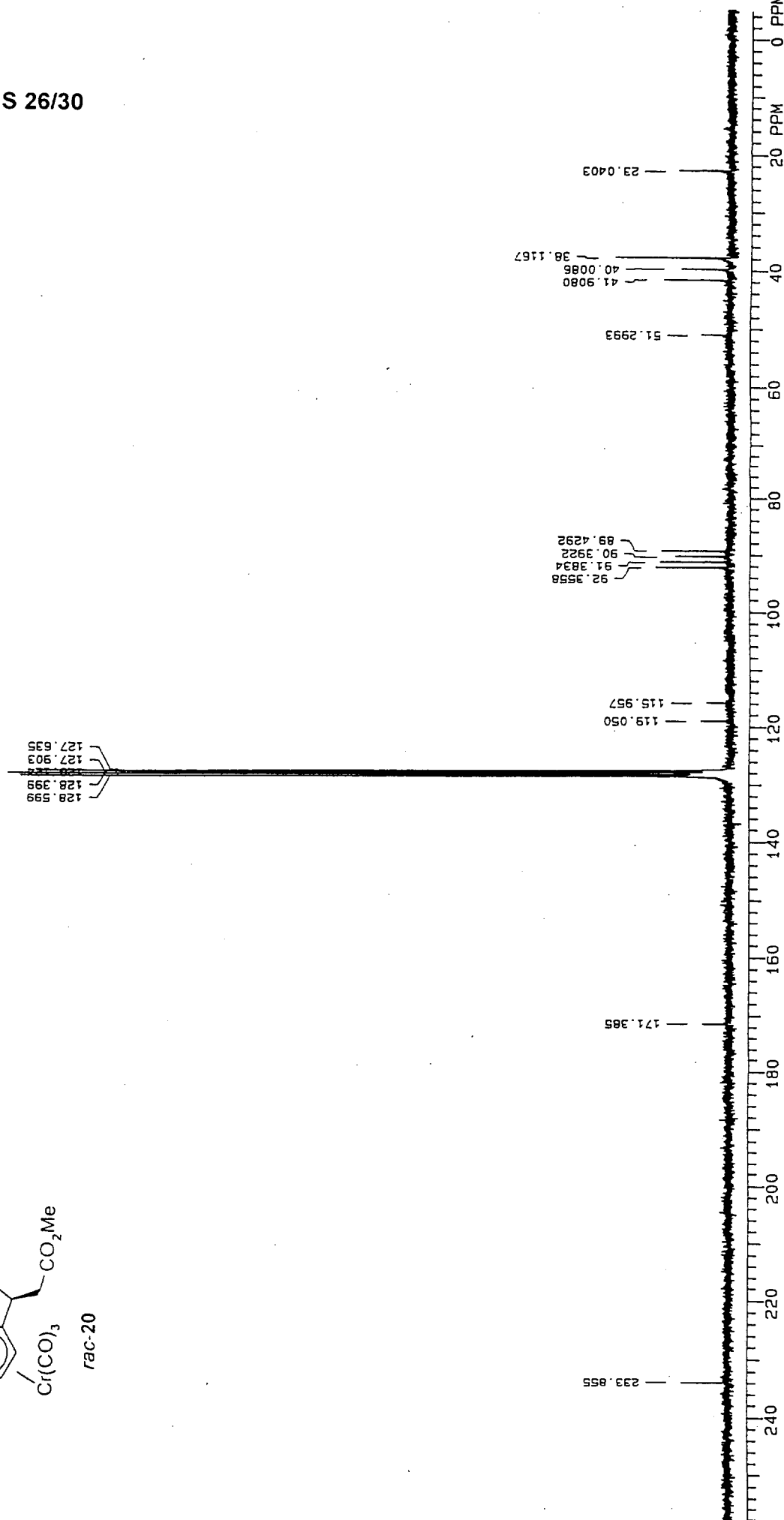
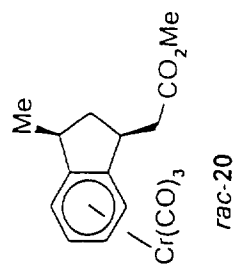


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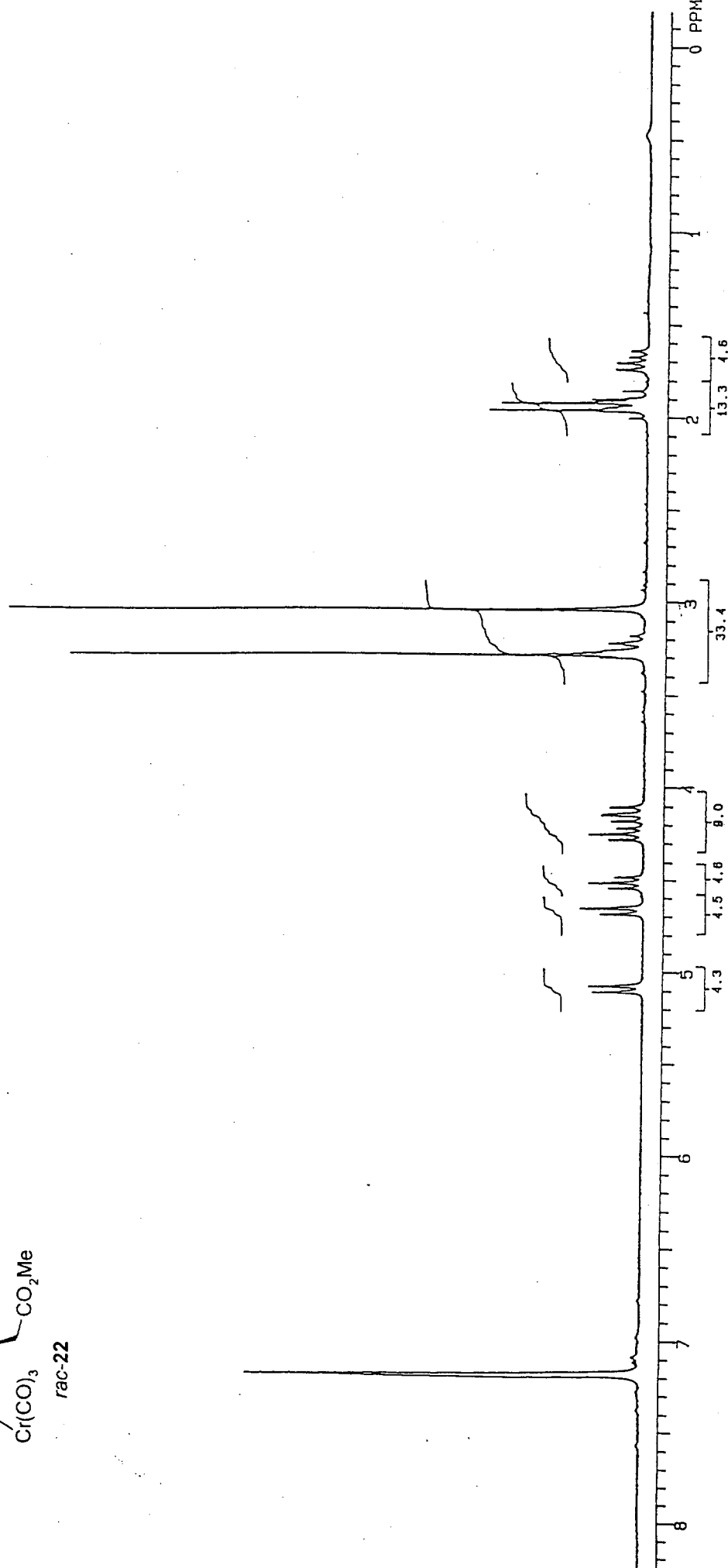
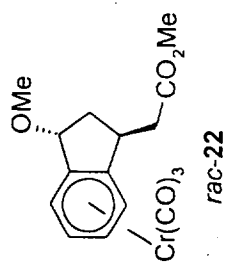




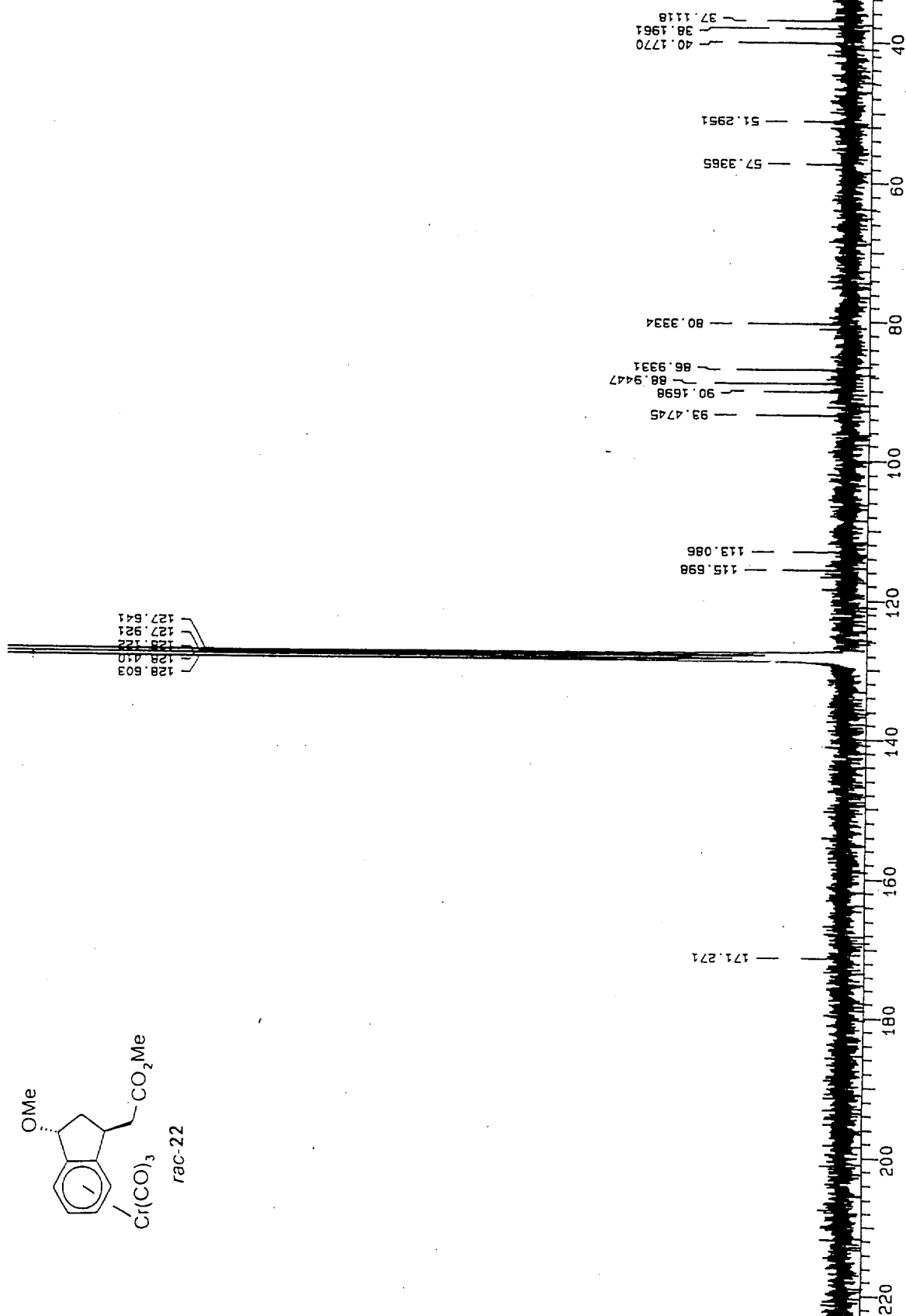
S 26/30



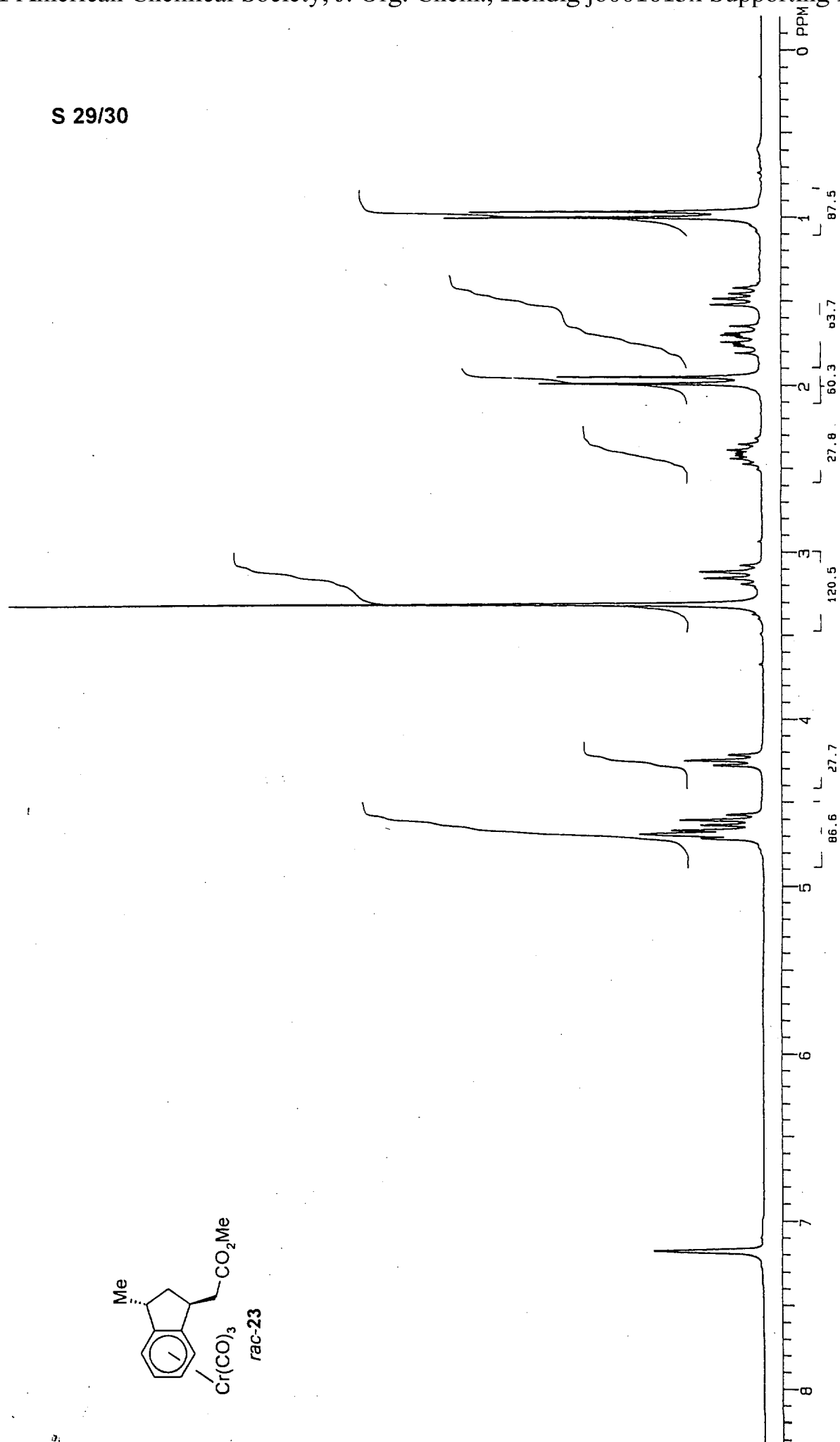
S 27/30



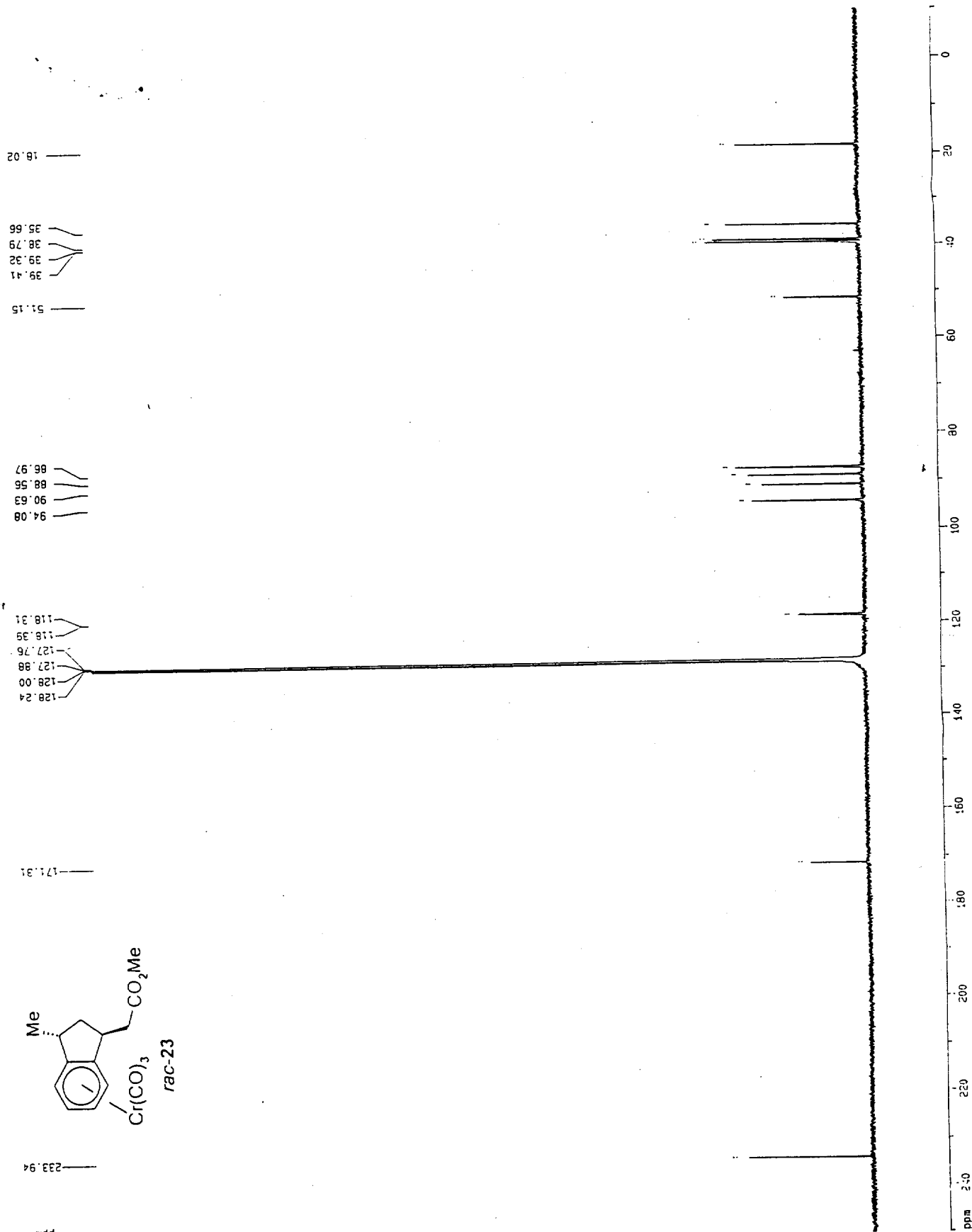
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S 29/30



S 30/30



F2 - Acquisition Parameters
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 FIDRES 0.476
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 RG 1E
 NUCLEUS 13C
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 D1 1.0000
 S2
 P1
 DE
 SF01 100.6240
 SMH 3125
 TD 6
 NS
 DS
 F2 - Processing parameters
 SI 3
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 WDM
 SSB
 LB
 GB
 PC
 1D NMR plot parameters
 CX 5
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 F1 251.6
 F2P -10
 F2 -10