

Terms & Conditions

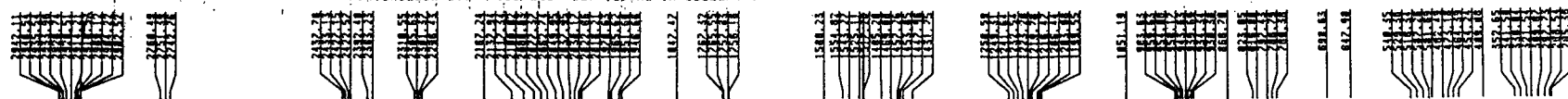
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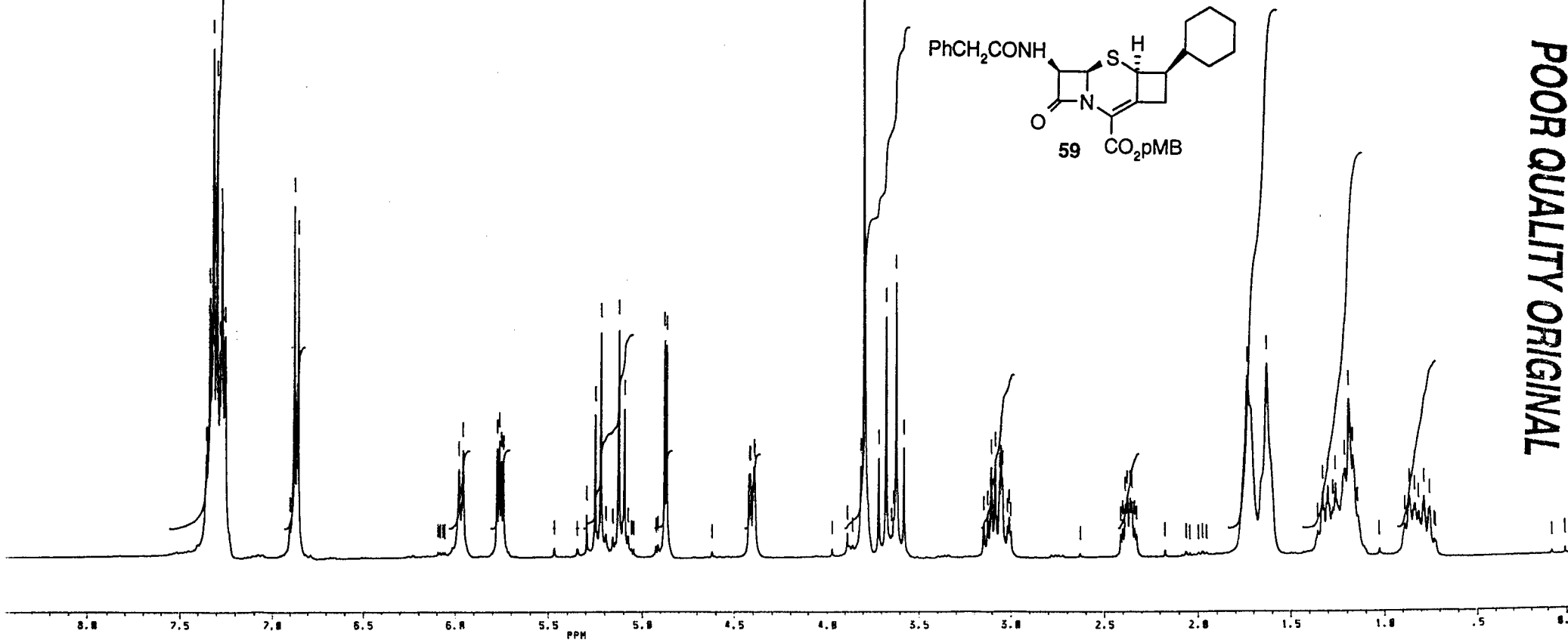
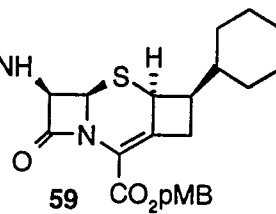
ACS Publications

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POOR QUALITY ORIGINAL



HERTZ

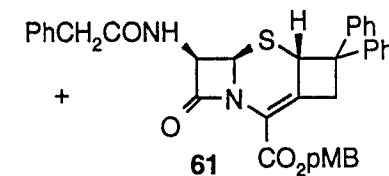
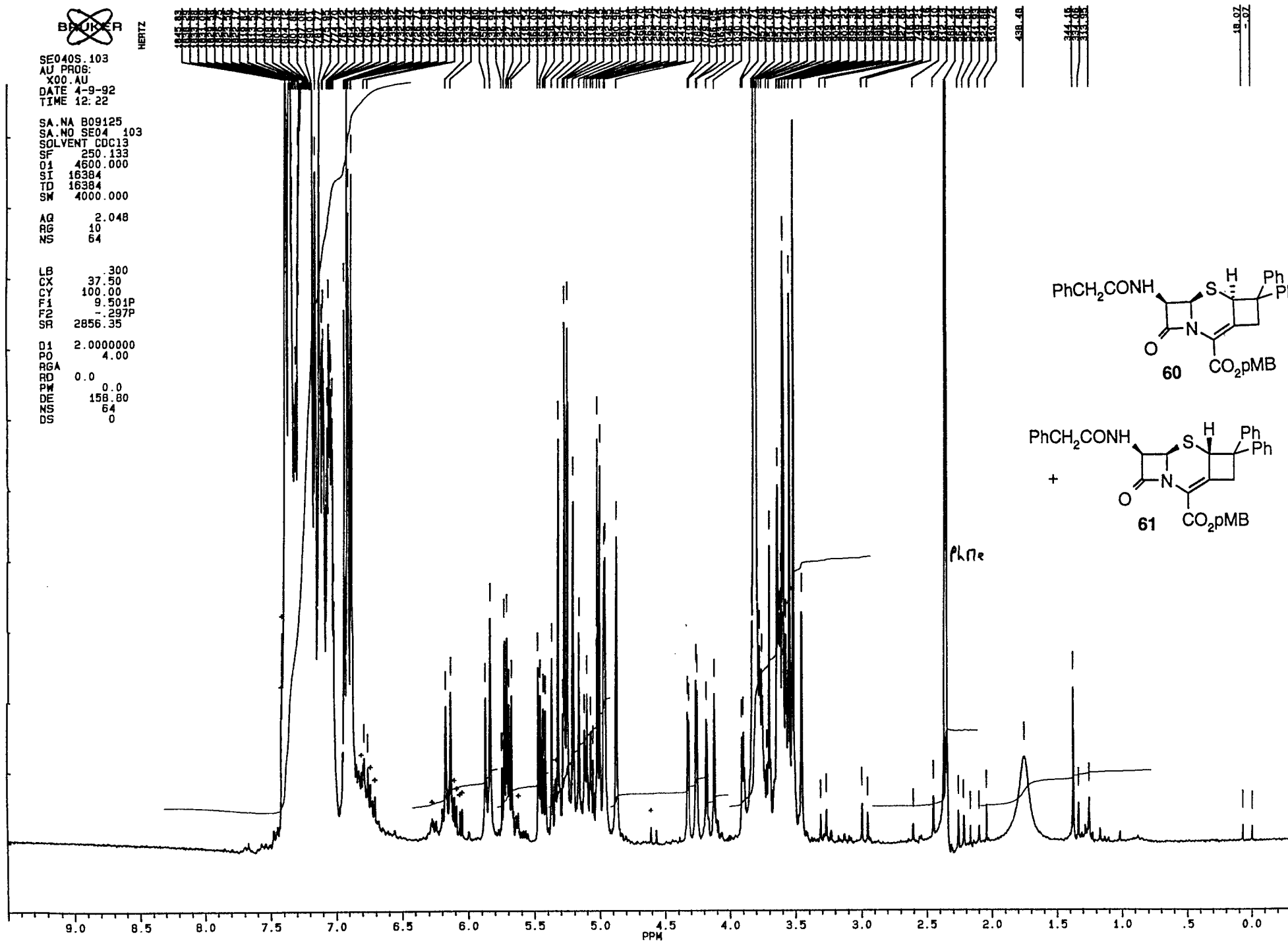
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DATE 4-9-92
TIME 12:22

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SA.NO SE04 103
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D1 4600.000
SI 16384
TD 16384
SM 4000.000

AQ 2.048
RG 10
NS 64

LB .300
CX 37.50
CY 100.00
F1 9.501P
F2 -.297P
SR 2856.35

D1 2.0000000
PO 4.00
RGA
RD 0.0
PW 0.0
DE 158.80
NS 64
DS 0



BRUKER

HERTZ

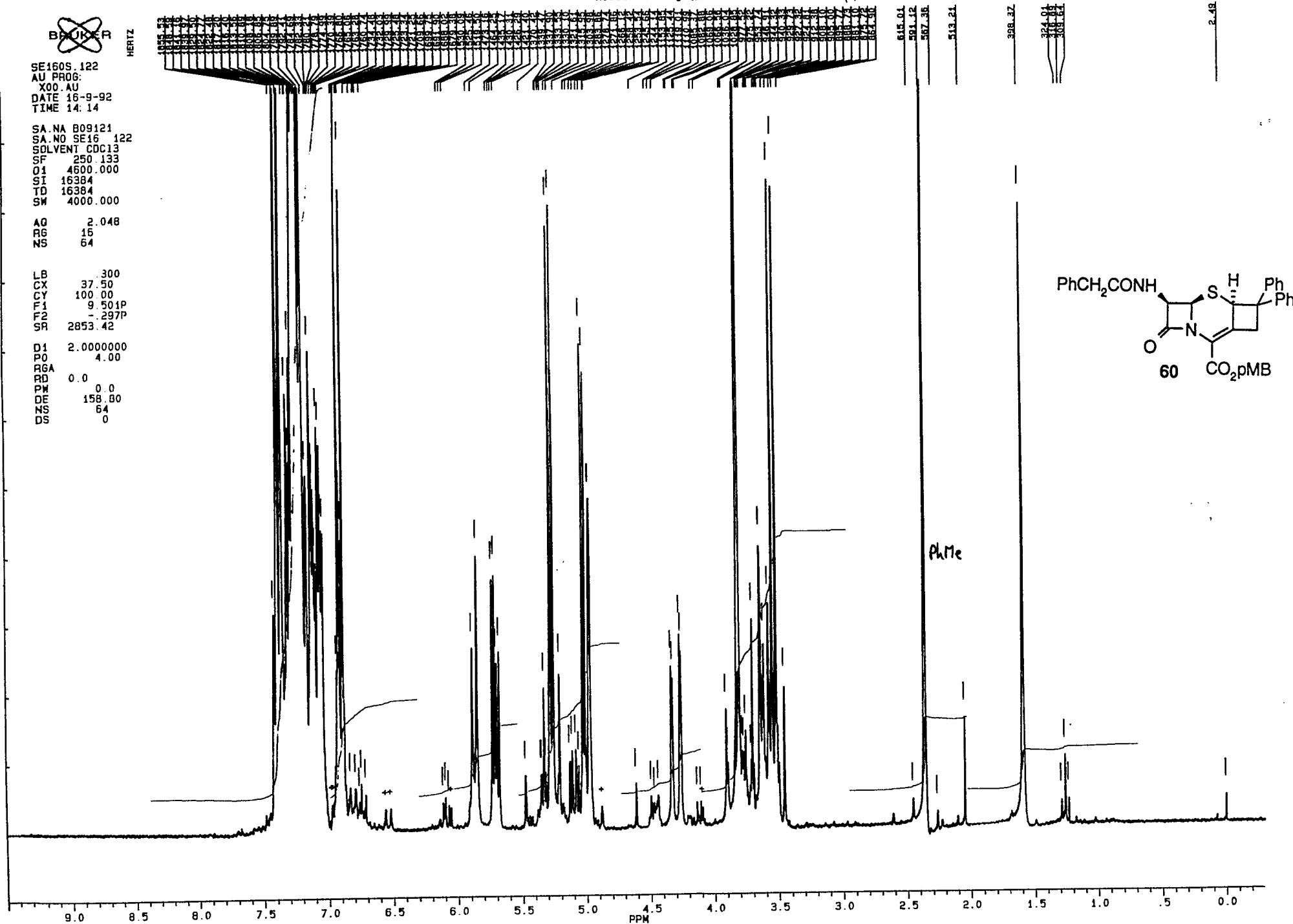
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X00.AU
DATE 16-9-92
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SA.NO SE16 122
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S1 16384
T0 16384
SW 4000.000

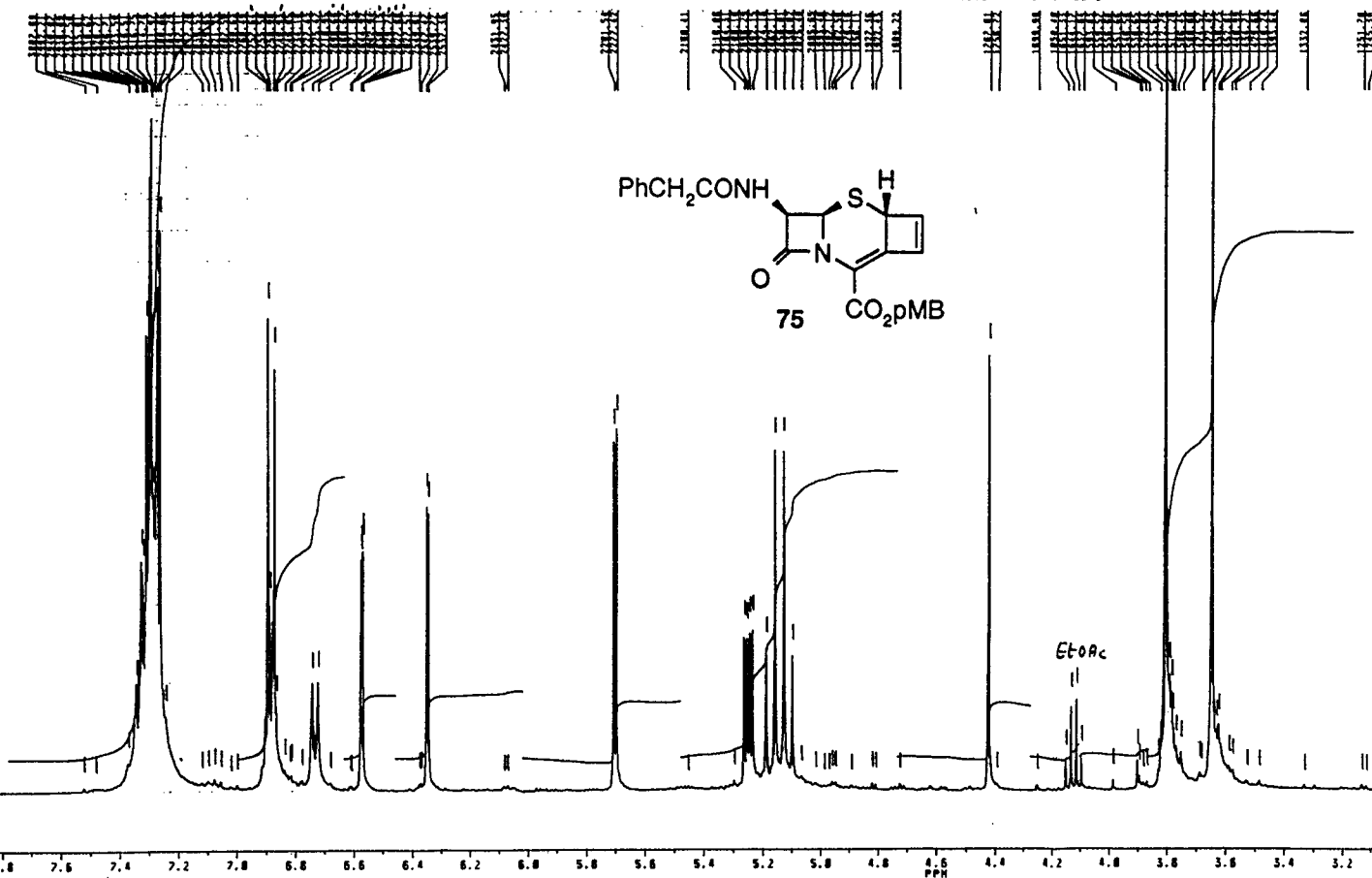
AQ 2.048
RG 16
NS 64

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CX 37.50
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F1 9.501P
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SR 2853.42

D1 2.0000000
P0 4.00
RGA
RD 0.0
PW 0.0
DE 158.80
NS 64
DS 0



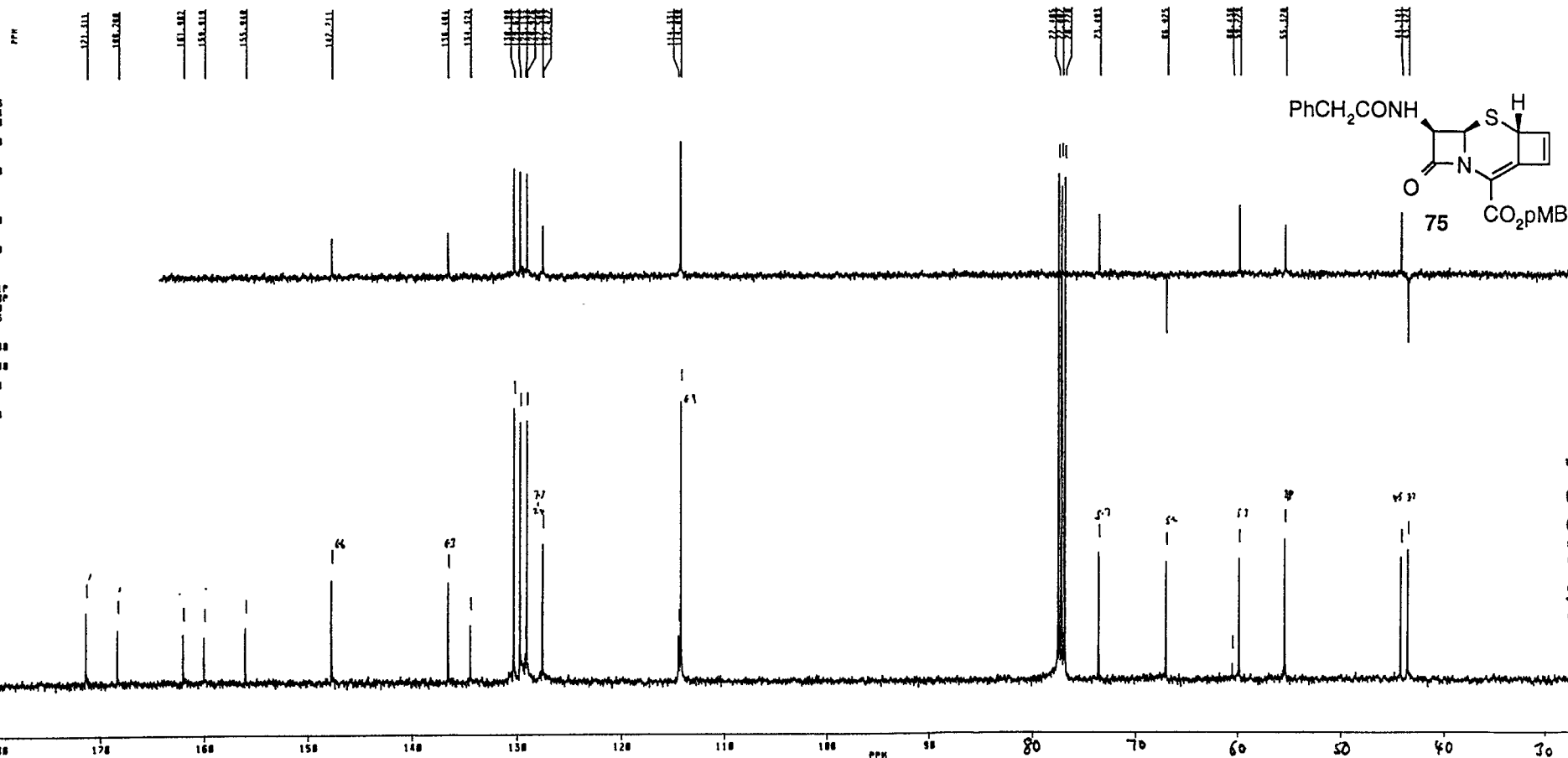
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 S1 52788
 SV 5288.535
 RD 0.0
 RO 5.148
 RG 188
 NS 92
 FV 8888
 DZ 0.0
 DP 83L PD
 LB .588
 CB .558
 CX 75.88
 CT 0.0
 F1 0.588P
 F2 .788P
 HZ/CH 41.614
 PPH/CH 1.04
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 NS 92
 DS 4
 Jw7



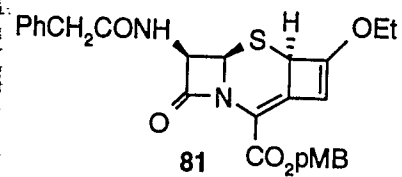
POOR QUALITY ORIGINAL

0035254 R.L. ELLIOTT 54037/33-C 13C NMR

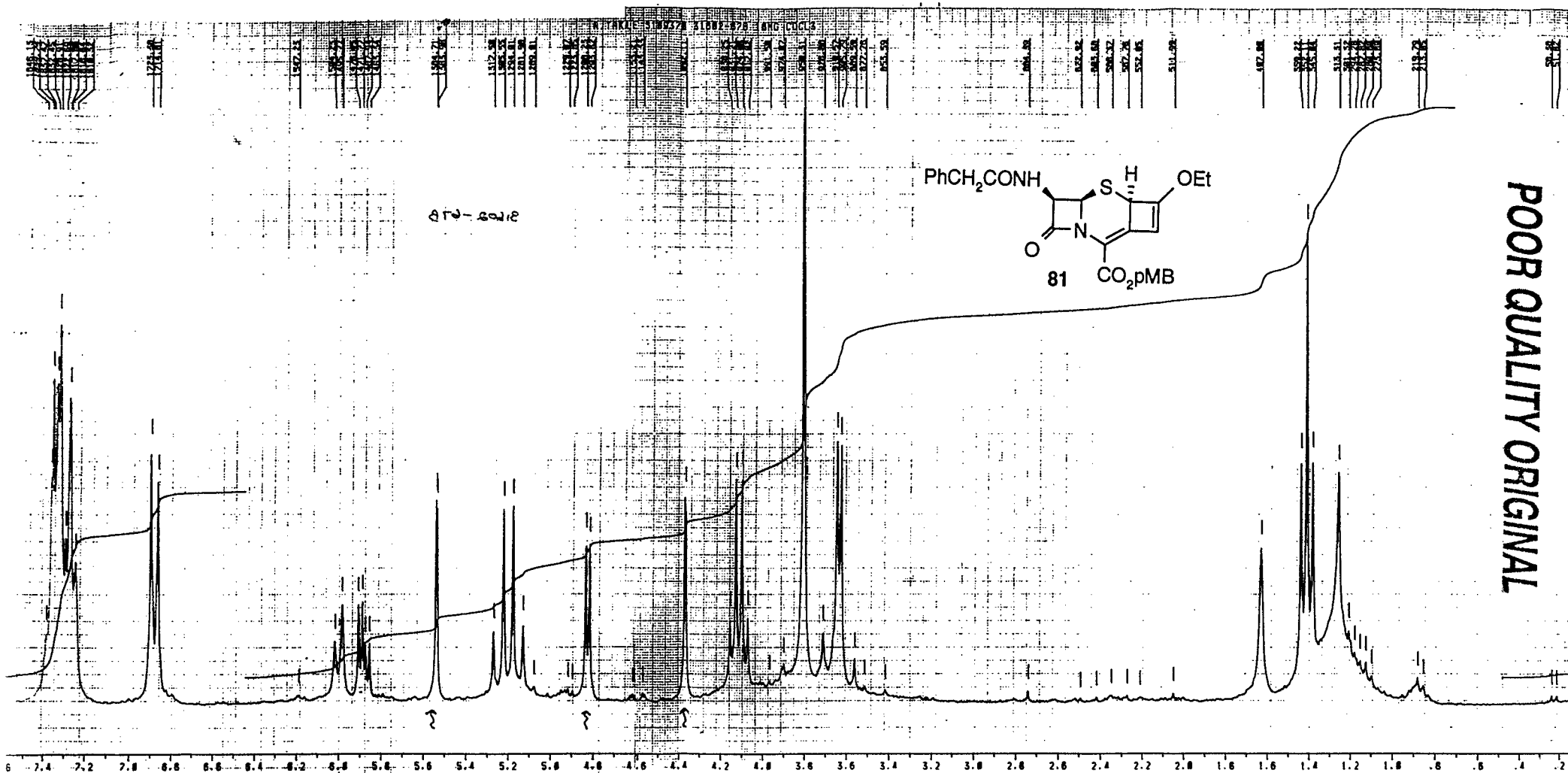
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 RG 1.100
 RS 2154
 FV 54000
 QZ 7000.000
 OP 10M 00
 LB 1.750
 CB 0.0
 CZ 75.00
 CY 0.0
 F1 100.001P
 F2 800P
 HZ/CM 254.000
 PPM/CM 2.535
 SR -0133.03
 D1 1.0000000
 S1 10M
 DB 8000000
 S2 10M
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 PV 0.0
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 NS 2154
 DS 4



POOR QUALITY ORIGINAL



சிங்-கொடீ





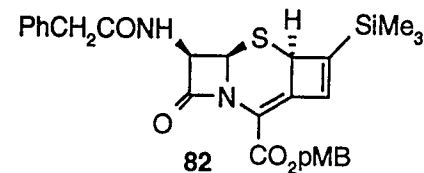
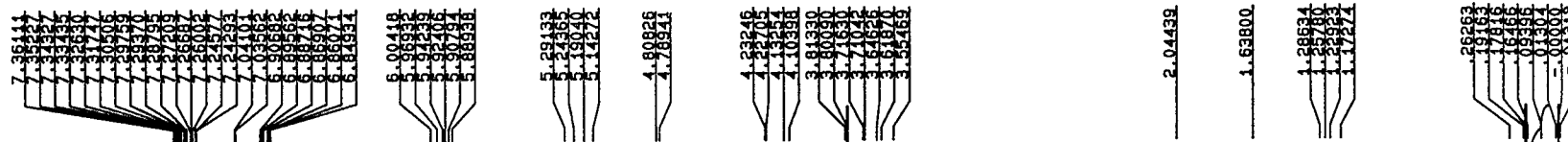
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X00.AU
DATE 20-2-97

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O1 4104.573
SI 32768
SW 4504.505

PW 2.5
RD 0.0
AQ 3.637
RG 20
NS 32

LB .300
SR 2853.63

PPM



INTEGRAL

9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 .5 0.0

PPM

32. Andy Takie

Research Programmes B14/217

Ref. No. 31602-698



HERTZ

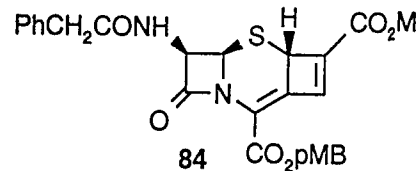
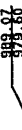
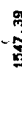
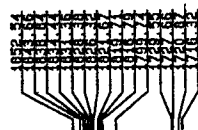
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DATE 11-3-92
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SOLVENT CDC13
SF 250.133
O1 4600.000
SI 16384
TD 16384
SM 4000.000

AQ 2.048
RG 80
NS 64

LB .300
CX 37.50
CY 50.00
F1 9.501P
F2 -.297P
SR 2853.42

D1 2.0000000
PO 4.00
RGA
RD 0.0
PW 0.0
DE 158.80
NS 64
DS 0



7.41-7.76 (7H, m)
6.90 (2H, d, J=8.7Hz)
6.86 (1H, s)
6.17 (1H, d, J=7.8Hz)
5.67 (1H, d, J=4.4Hz)
5.20 (1H, d, J=11.3Hz)
5.19 (1H, m)
5.13 (1H, d, J=11.3Hz)
4.43 (1H, s)
3.86 (3H, s)
3.82 (3H, s)
3.74 (1H, d, J=16.5Hz)
3.67 (1H, d, J=16



HERTZ

MA300S.134
AU PROG:
X00 AU
DATE 30-3-92
TIME 17:46

SA NA 800176
SA NO MA30 134
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SF 250 133
Q1 4600.000
SI 16384
TD 16384
SW 4000.000

AD 2.048
RG 16
NS 64

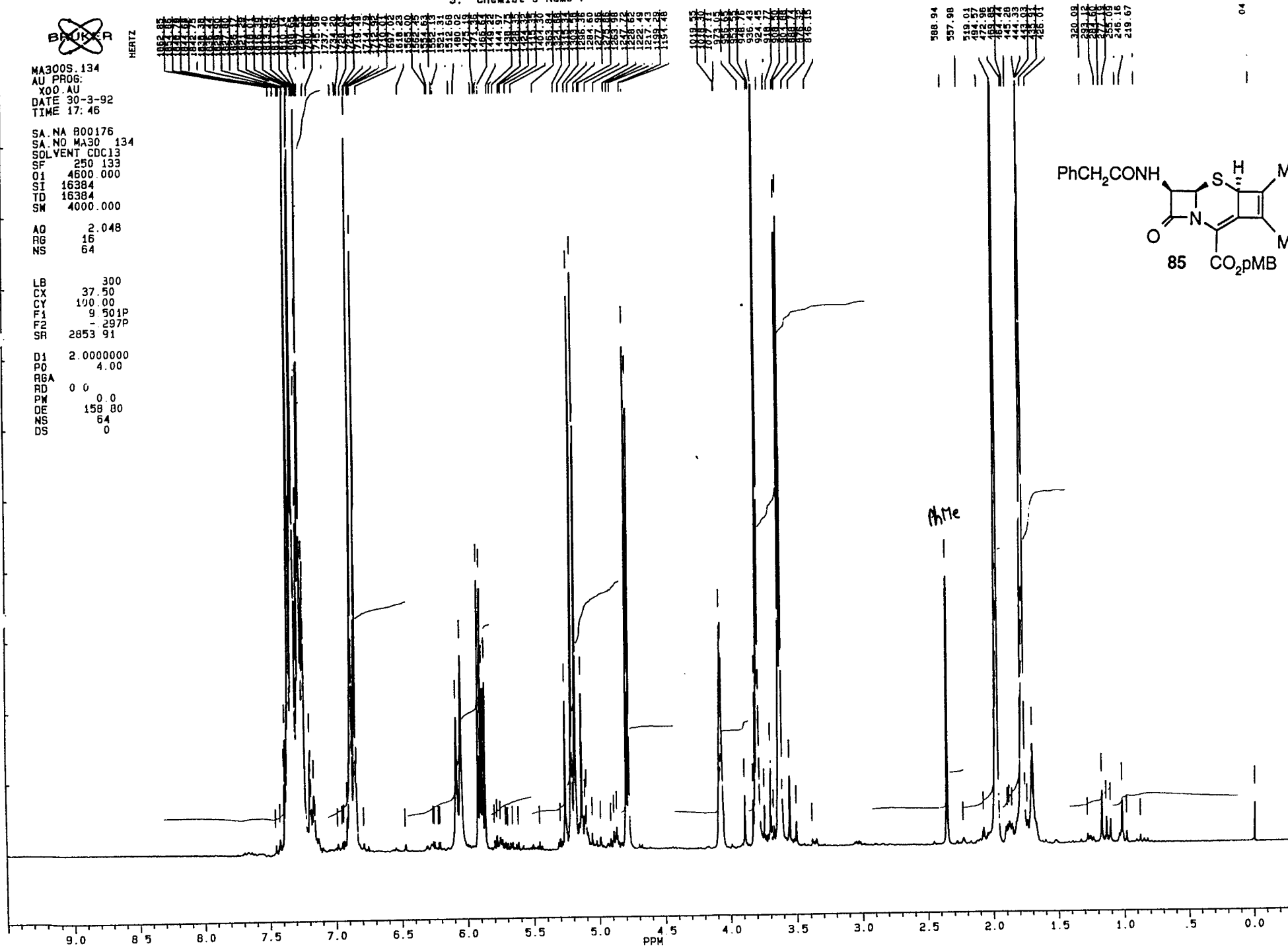
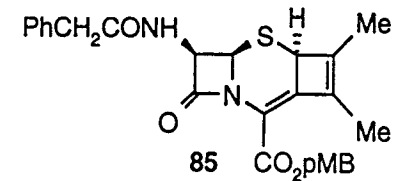
LB 300
CX 37.50
CY 100.00
F1 9 501P
F2 - 297P
SR 2853 91

D1 2.0000000
P0 4.00
RG 0
RD 0.0
PW 158.80
DE 64
NS 0
DS 0

3. Chemist's Name :

CDCL3

Ref. No.



BRUKER

HERTZ

SE110S.112
AU PROG.
Y00 AU
DATE 11-9-92
TIME 12.43

SA.NA B01812
SA.NO SE11 112
SOLVENT CDCl3
SF 250.133
O1 4600.000
SI 16384
TD 16384
SW 4000.000

AQ 2.048
RG 160
NS 64

LB 300
CY 37.50
CY 50.00
F1 9.501P
F2 -297P
SR 2853.42

D1 2.0000000
P0 4.00
RG 0.0
PW 0.0
DE 158.80
NS 64
DS 0

35. Richard Elliott

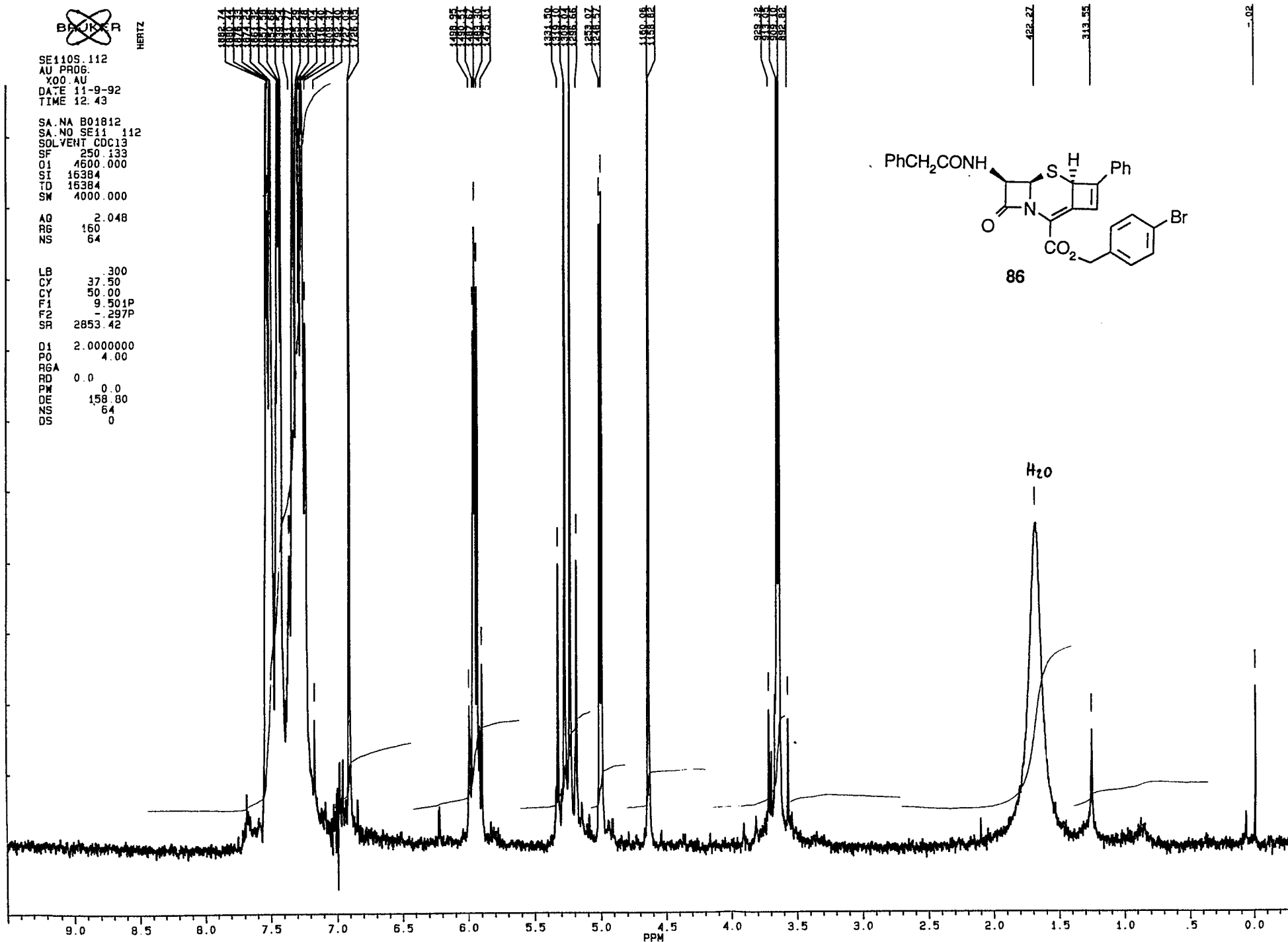
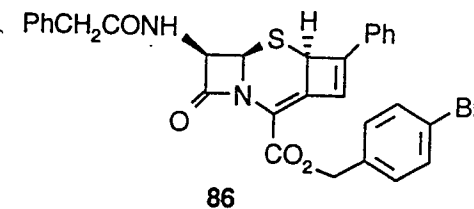
Research Programmes B14/219

Ref. No.

422.27

313.55

-02



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 TIME 14:10

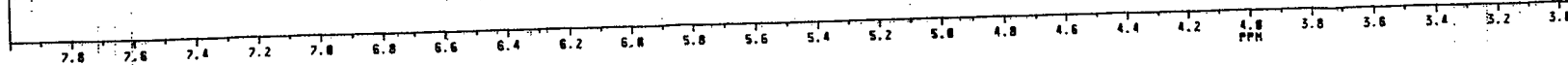
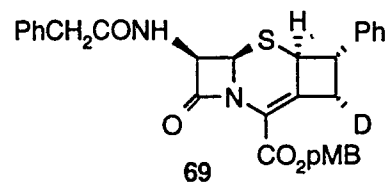
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 SI 8288.888
 SI 52788
 SV 5288.533

RD 0.0
 RO 3.148
 RG 88
 RS 32
 FY 6688
 OZ 0.0
 DP 63L P0

LB 588
 CB 558
 CK 75.88
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 FI 0.000P
 F2 0.001P
 HZ/CH 42.678
 PPH/CH 4385.81

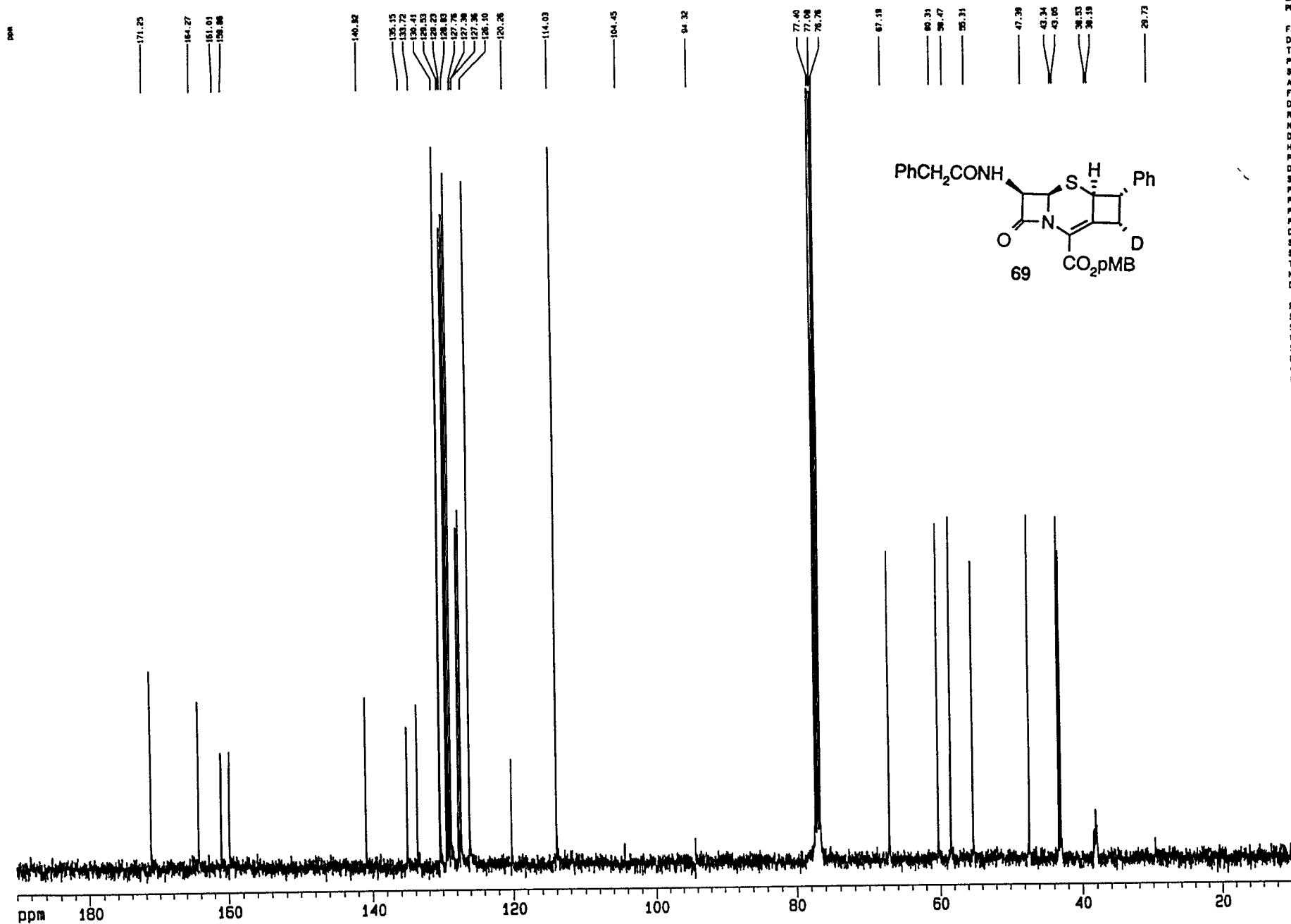
D1 18.0000000
 P8 13.88
 RCA
 RD 0.0
 PV 0.0
 DE 122.58
 NS 32
 OS 4

J. Wille



POOR QUALITY ORIGINAL

R.ELLIOTT B93/5103 34937/27-A BB+DEPT-135 IN CDCL3



Current Data Parameters
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EXPNO 1
PROCNO 1

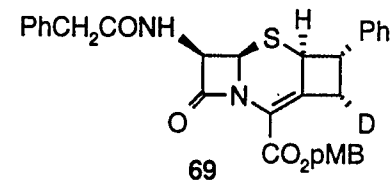
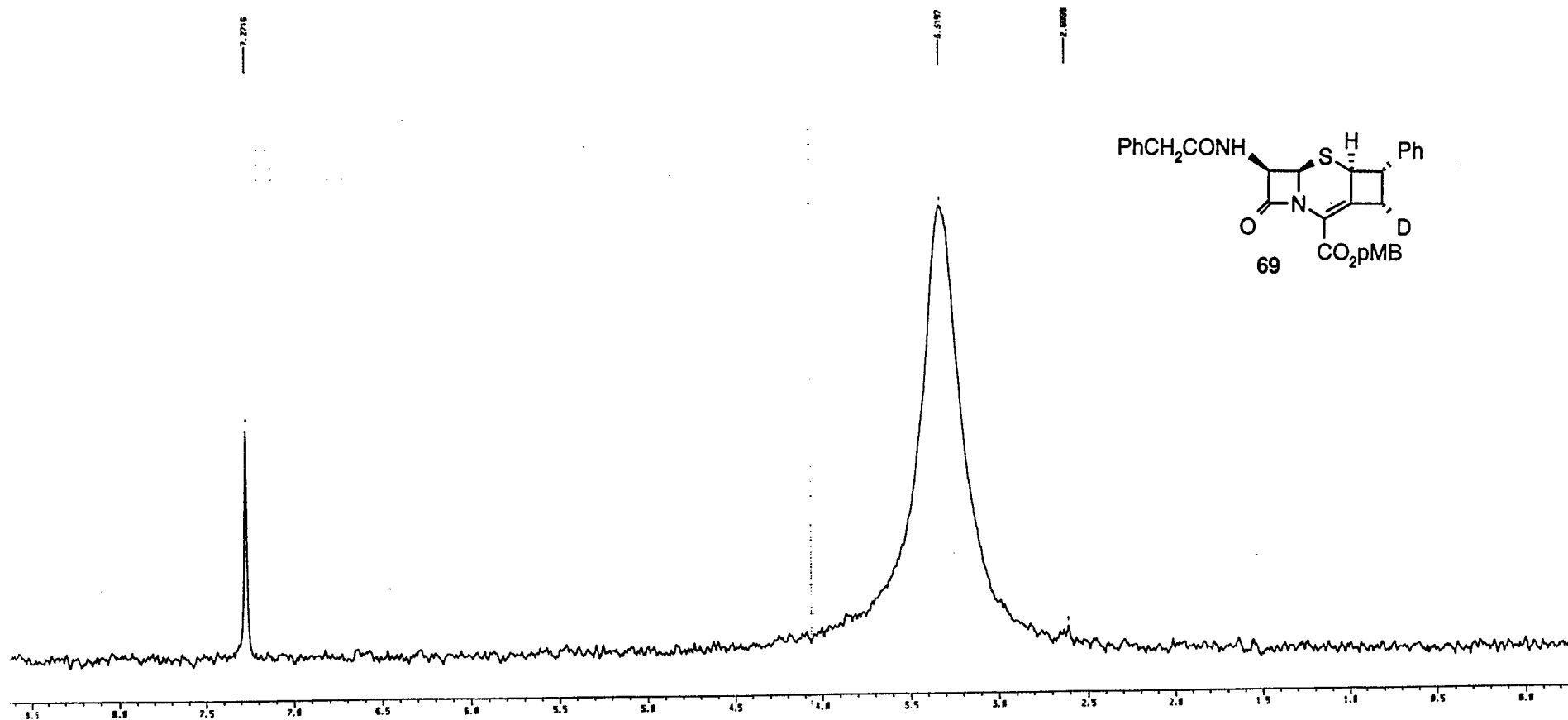
F2 - Acquisition Parameters
Date 930524
Time 17.55
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FIDRES 0.423855 Hz
AQ 18.0 usec
RG 1800
NUCLEUS unknown
D1 1.0000000 sec
HL1 10 dB
P1 13.0 usec
D2 8.0038000 sec
SF02 400.1370000 MHz
P2 28.0 usec
P3 8.0 usec
PD 3.1 usec
P4 19.5 usec
DE 25.0 usec
SF01 100.6250000 MHz
SFO1 27777.76 Hz
TD 80536
NS 1800
DS 4

F2 - Processing parameters
S1 32768
SF 100.6138679 MHz
WDW EN
SSB 0
LB 1.75 Hz
GB 0
PC 1.00

10 NMR plot parameters
CX 24.80 cm
FYP 190.000 ppm
F1 19118.53 Hz
F2P 10.000 ppm
F2 1006.14 Hz
PPMCH 7.31707 ppm/c
HZCH 736.18904 Hz/cm

POOR QUALITY ORIGINAL

279 DEUTERIUM NMR SPECTRUM IN CHCL3



Current Data Parameters
 NAME 697181
 EXPNO 1
 PROCNO 1
 F2 - Acquisition Parameters
 Date 26/5/8
 Time 16:55
 PULPROG zgpg30
 SOLVENT CDCl3
 NS 1.1258771
 DS 1.1258771
 FIDRES 0.156111
 DU 201.0
 RG 12769
 NUCLEUS 29
 MHZ 90.0
 DT 0.000000
 P1 100.0
 SFO 52.0
 D11 0.000000
 S2 24.0
 P1 3.0
 DE 25.0
 OF0 12147.00
 SFO 200.00
 TO 10.00
 NS 1000
 DS 1
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 SI 10000
 SF 12147.00
 VDA 1.0
 SFO 52.0
 LB 0.0
 GB 0.0
 PC 1.00
 1D NMR plot parameters
 CX 70.00
 F1P 11.000
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 F2P 2.500
 F2 13.000
 PPMH 0.00000
 NMR 2.00000

SAR
 11 MAY 93

POOR QUALITY ORIGINAL

8955184H.001
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 X000000
 DATE 24-5-93
 TIME 14:27

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 ST 32768
 SV 5200.333

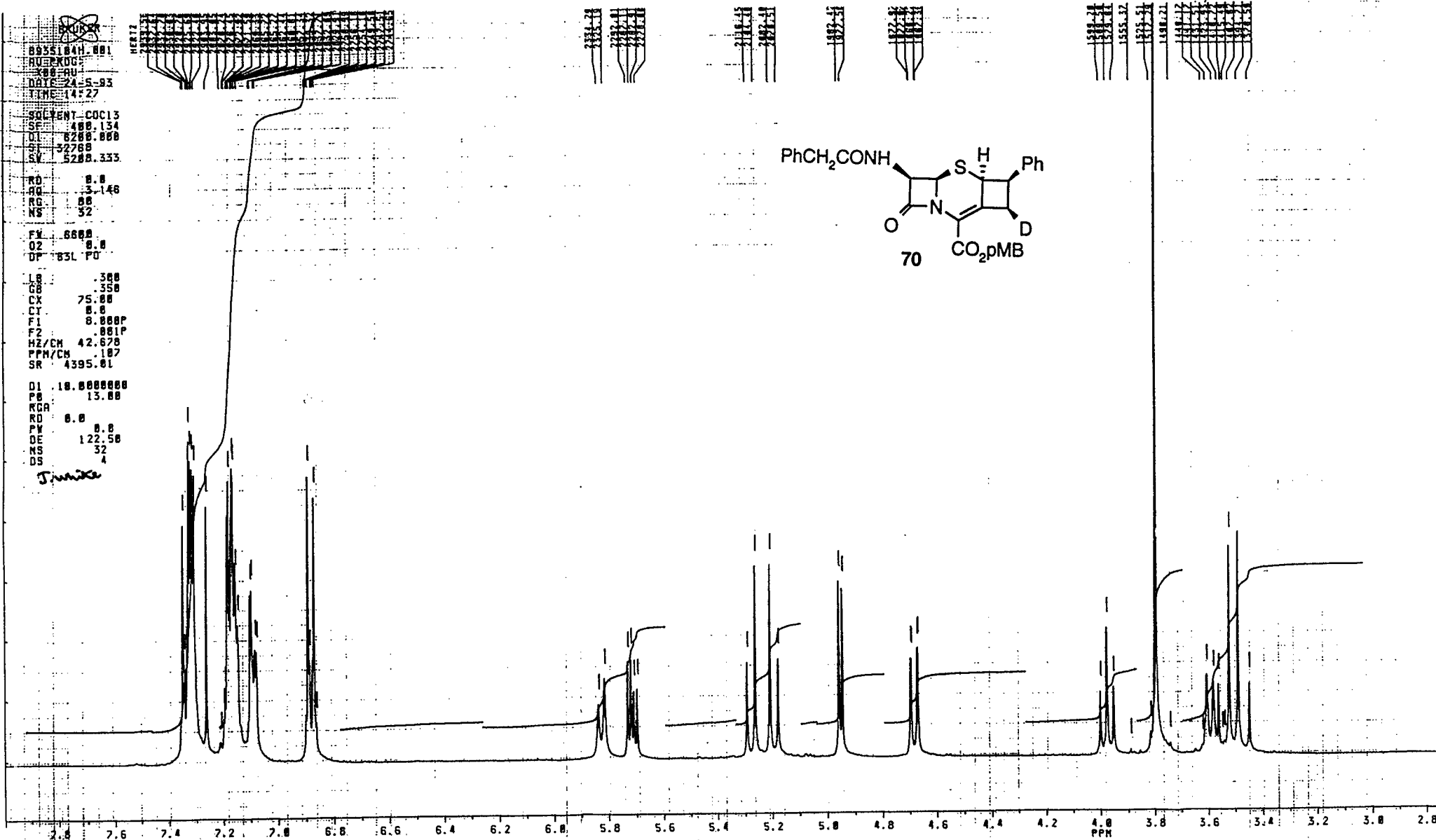
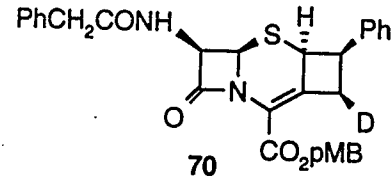
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 AQ 3.146
 RG 00
 NS 32

FY 6800
 QZ 0.0
 DP 83L PD

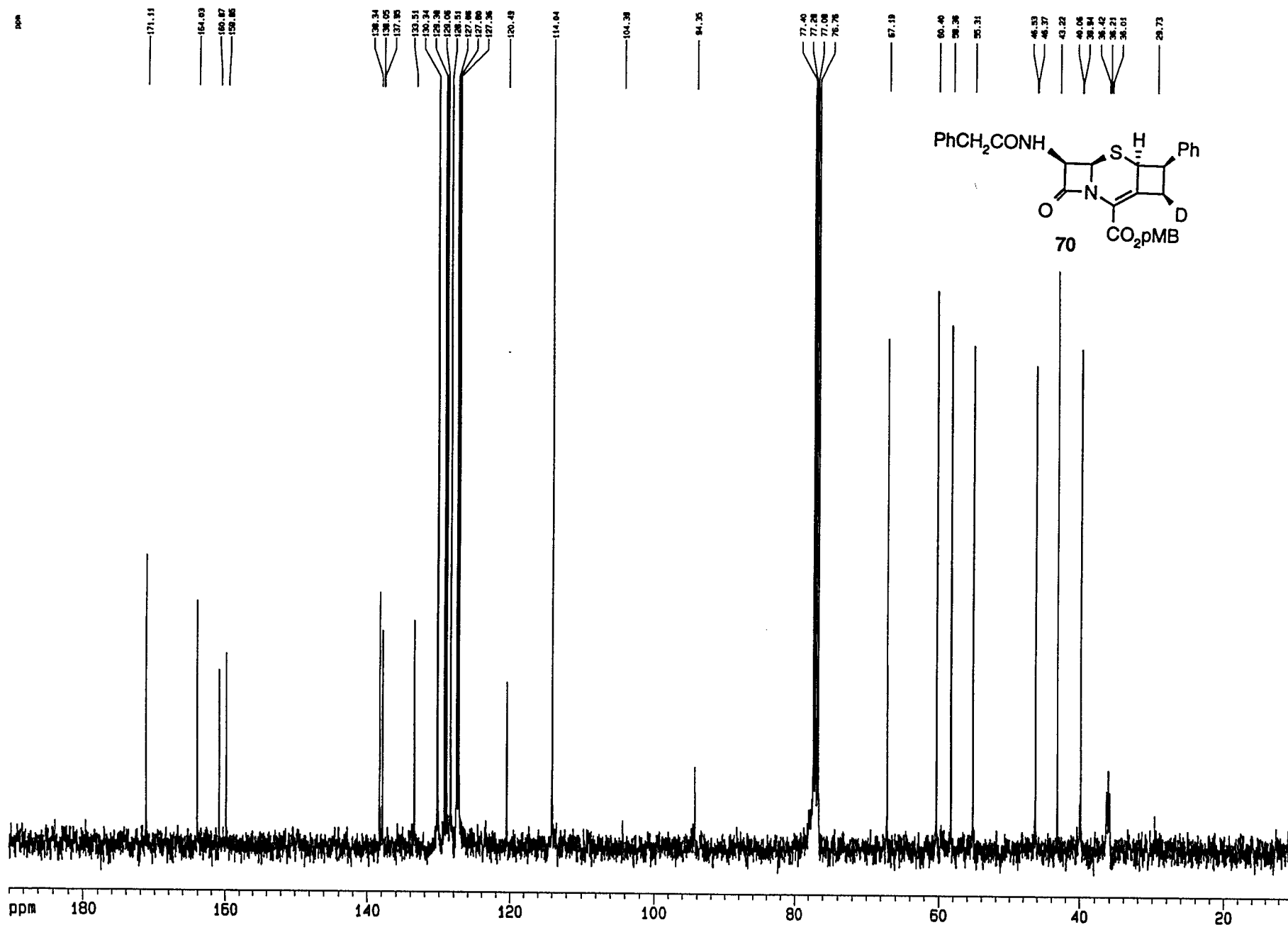
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 F2 0.001P
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 PPM/CM 107
 SR 4395.01

D1 10.0000000
 P0 13.00
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 DE 122.50
 NS 32
 DS 4

Sumita



R.ELLIOTT B93/5104 34937/27-B BB+DEPT-135 IN CDCL3



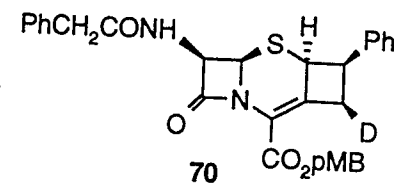
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 PROCNO 1

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 H1 10 dB
 P1 13.0 usec
 D2 0.0036000 sec
 SF02 400.1370000 MHz
 P2 26.0 usec
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 P0 3.1 usec
 P4 19.5 usec
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 SWH 27777.78 Hz
 TD 65536
 DS 1800
 DS 4

F2 - Processing parameters
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 SSB 0
 LB 1.75 Hz
 GB 0
 PC 0.75

30 NMR plot parameters
 CX 24.86 cm
 FXP 190.000 ppm
 F1 18118.83 Hz
 F2P 15.000 ppm
 F2 1006.14 Hz
 PPMOH 7.31707 ppm/c
 HZOH 736.19904 Hz/cm

337/22B DEUTERIUM NMR SPECTRUM IN CHCL3



POOR QUALITY ORIGINAL

Current Data Param
NAME
EXPNO
PROCNO

F2 - Acquisition P
Date
Time

PULPROG
SOLVENT
AQ
FIDRES

DW
RG
NUCLEUS
ML1

D1
P61
S4
D11

S2
P1
DE
SF01

SEH
TD
NS
DS

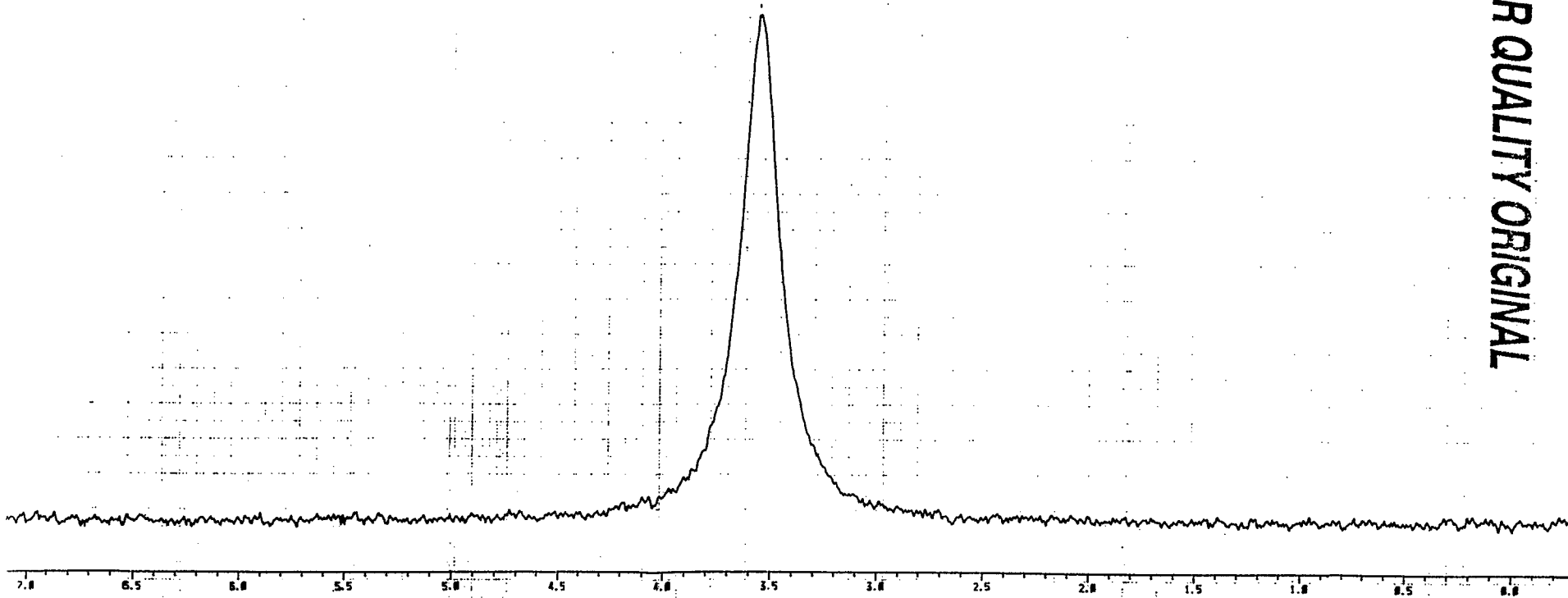
F2 - Processing ma
SI
SF
VDW

SSB
LB
GB
PC

1D NMR plot param
CX
F1P
F1
F2P

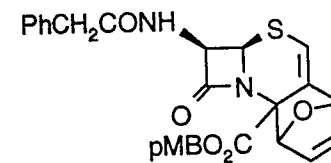
F2
PPMCH
HZCH

SAR
11 M

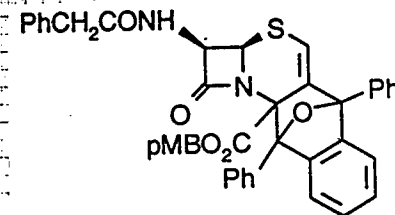


J. White

N.H.NICHOLSON 1688(2) 3NO 8112078 IN COCL3/TNS

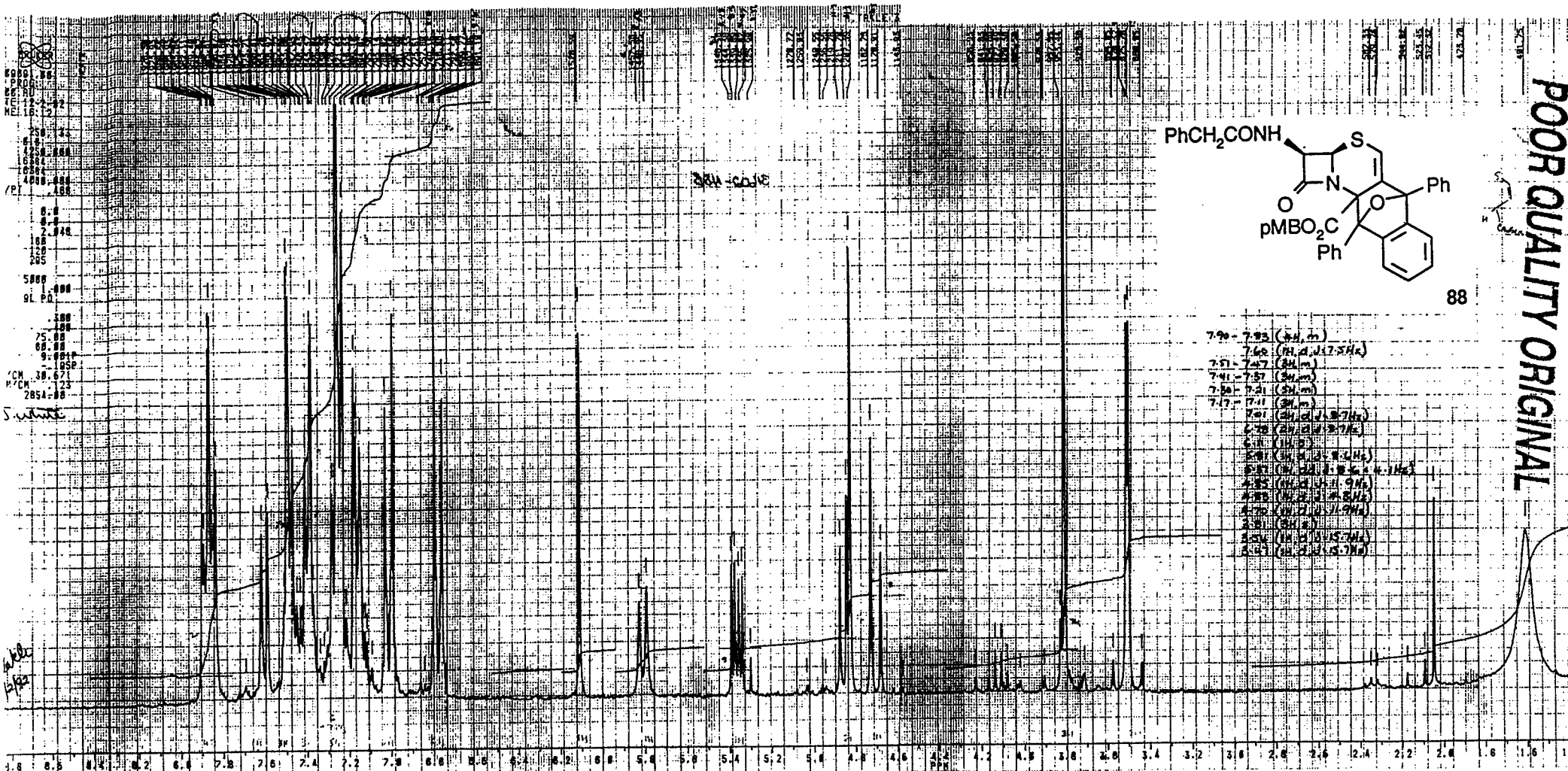


87



88

7.90 - 7.93 (34 m)
7.68 (31.2) 17.5 Hz
7.51 - 7.57 (34 m)
7.41 - 7.57 (34 m)
7.50 - 7.51 (34 m)
7.17 - 7.11 (34 m)
7.01 (41.2) 9.7 Hz
6.78 (41.2) 9.7 Hz
6.11 (11.5)
5.41 (41.2) 9.7 Hz
5.87 (41.2) 9.7 Hz
5.82 (41.2) 9.7 Hz
5.75 (41.2) 9.7 Hz
5.70 (41.2) 9.7 Hz
5.61 (41.2) 9.7 Hz
5.54 (41.2) 9.7 Hz
5.41 (41.2) 9.7 Hz
5.34 (41.2) 9.7 Hz
5.24 (41.2) 9.7 Hz
5.14 (41.2) 9.7 Hz
5.04 (41.2) 9.7 Hz
4.94 (41.2) 9.7 Hz
4.84 (41.2) 9.7 Hz
4.74 (41.2) 9.7 Hz
4.64 (41.2) 9.7 Hz
4.54 (41.2) 9.7 Hz
4.44 (41.2) 9.7 Hz
4.34 (41.2) 9.7 Hz
4.24 (41.2) 9.7 Hz
4.14 (41.2) 9.7 Hz
4.04 (41.2) 9.7 Hz
3.94 (41.2) 9.7 Hz
3.84 (41.2) 9.7 Hz
3.74 (41.2) 9.7 Hz
3.64 (41.2) 9.7 Hz
3.54 (41.2) 9.7 Hz
3.44 (41.2) 9.7 Hz
3.34 (41.2) 9.7 Hz
3.24 (41.2) 9.7 Hz
3.14 (41.2) 9.7 Hz
3.04 (41.2) 9.7 Hz
2.94 (41.2) 9.7 Hz
2.84 (41.2) 9.7 Hz
2.74 (41.2) 9.7 Hz
2.64 (41.2) 9.7 Hz
2.54 (41.2) 9.7 Hz
2.44 (41.2) 9.7 Hz
2.34 (41.2) 9.7 Hz
2.24 (41.2) 9.7 Hz
2.14 (41.2) 9.7 Hz
2.04 (41.2) 9.7 Hz
1.94 (41.2) 9.7 Hz
1.84 (41.2) 9.7 Hz
1.74 (41.2) 9.7 Hz
1.64 (41.2) 9.7 Hz
1.54 (41.2) 9.7 Hz
1.44 (41.2) 9.7 Hz
1.34 (41.2) 9.7 Hz
1.24 (41.2) 9.7 Hz
1.14 (41.2) 9.7 Hz
1.04 (41.2) 9.7 Hz
0.94 (41.2) 9.7 Hz
0.84 (41.2) 9.7 Hz
0.74 (41.2) 9.7 Hz
0.64 (41.2) 9.7 Hz
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0.34 (41.2) 9.7 Hz
0.24 (41.2) 9.7 Hz
0.14 (41.2) 9.7 Hz
0.04 (41.2) 9.7 Hz



000000

JL0000.102
 RU PROG:
 X00.AU
 DATE 8-7-92

SP 100.014
 SY 74.0
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 S1 05556
 TO 05556
 SY 27777.778
 HZ/PT .040

PV 0.0
 RD 0.0
 RO 1.160
 RG 1600
 MS 2000
 TE 207

FW 34000
 OZ 7000.000
 DP 10H 85

LB 1.250
 CX 75.00
 CT 12.00

F2 -10.001P
 HZ/CM 521.986
 PPM/CM 5.200
 SR -0000.60

J. W. W.

A. TAPLE 31602-400 5MG 5114300 88+DEPT-135 IN CDCL3

170.593

160.505

159.465

142.210

142.270

135.450

135.450

135.450

135.450

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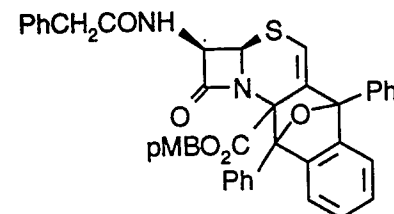
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135.450

135.450

135.450



800-Cont

1

8000 07/92

220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40

BRUKER

HERTZ

AP220S.108
AU PROG:
X00. AU
DATE 22-4-93
TIME 9:51

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SA.NO AP22 108
SOLVENT CDCl3
SF 250.133
D1 4600.000
SI 16384
TD 16384
SM 4000.000

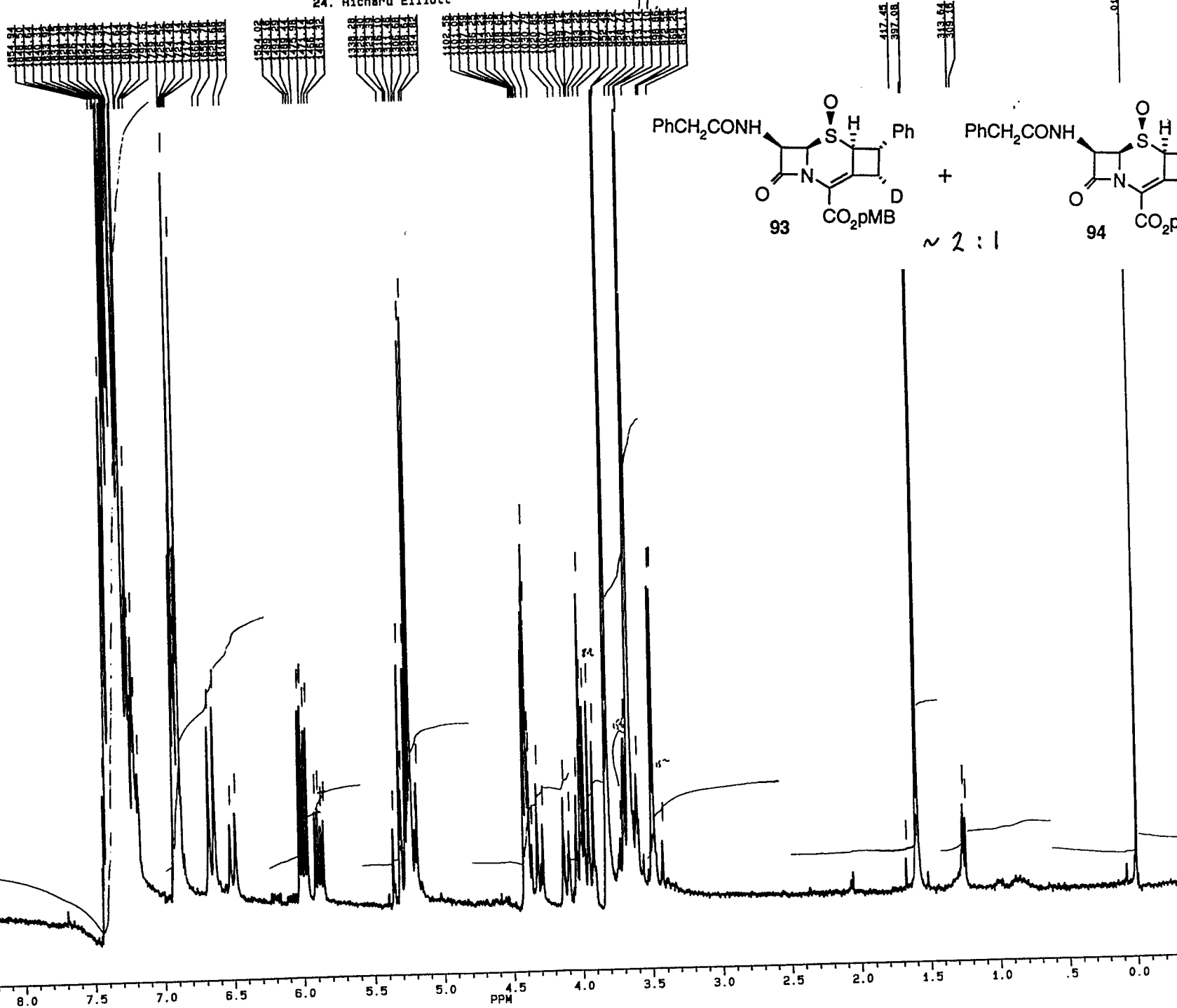
AQ 2.048
RG 80
NS 64

LB .300
CY 37.50
CY 100.00
F1 9.501P
F2 -.297P
SR 2853.91

D1 2.0000000
P0 4.00
RGA
RD 0.0
PW 0.0
DE 158.80
NS 64
DS 0

24. Richard Elliott

Ref. No.



-BROKER

HERTZ

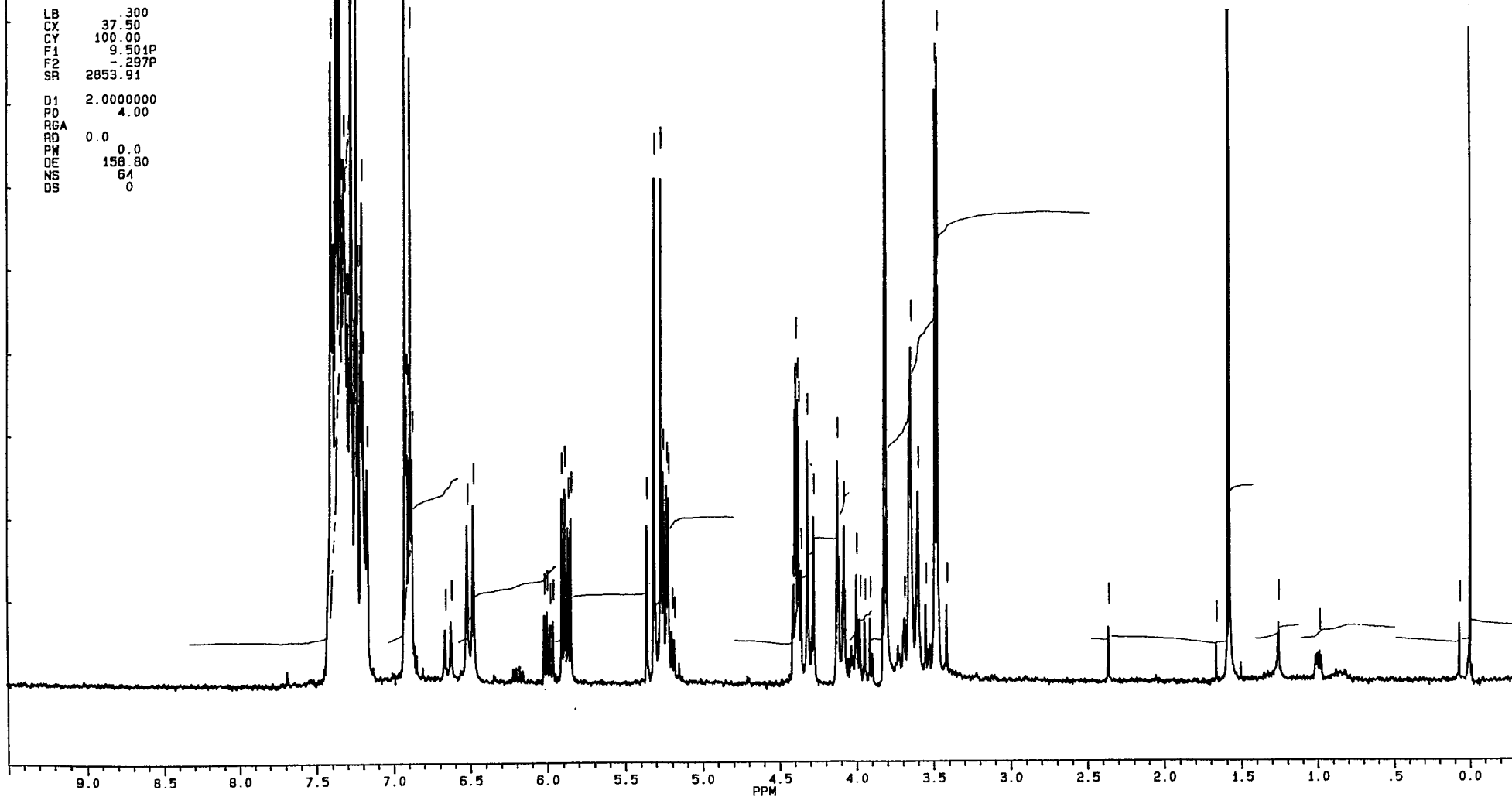
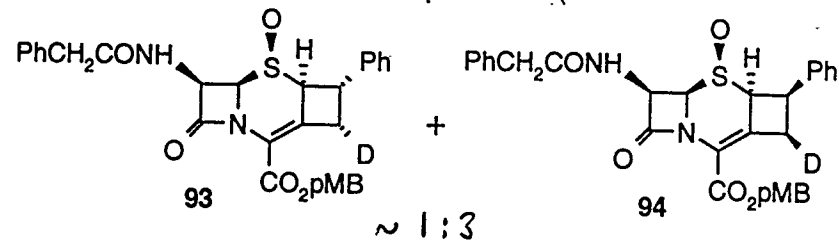
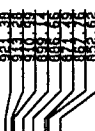
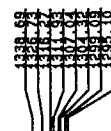
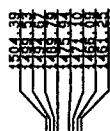
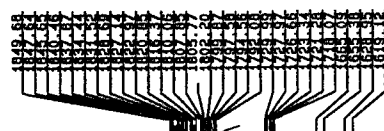
AP220S.109
AU PROG:
X00. AU
DATE 22-4-93
TIME 10 01

SA.NA B02308
SA.NO AP22 109
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SF 250.133
O1 4600.000
SI 16384
TD 16384
SW 4000 000

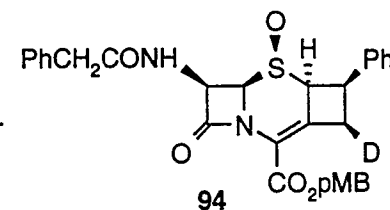
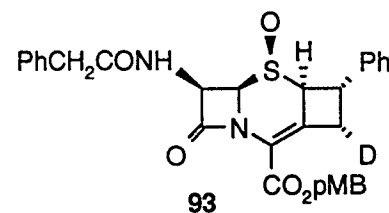
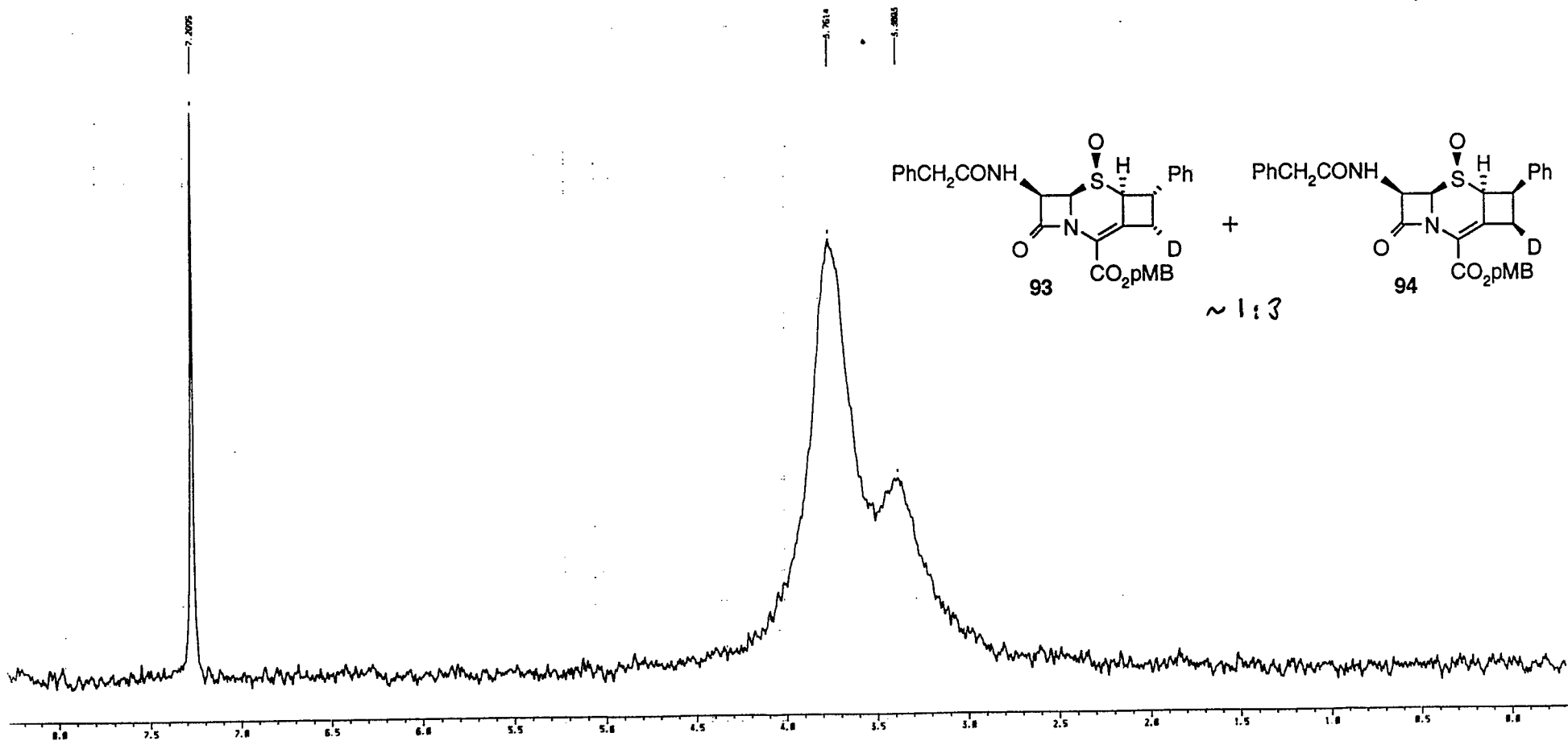
AQ 2.048
RG 80
NS 64

LB .300
CX 37.50
CY 100.00
F1 9.501P
F2 -.297P
SR 2853.91

D1 2.0000000
P0 4.00
RGA
RD 0.0
PW 0.0
DE 158.80
NS 64
DS 0



034937/348 DEUTERIUM NMR SPECTRUM IN CHCL3



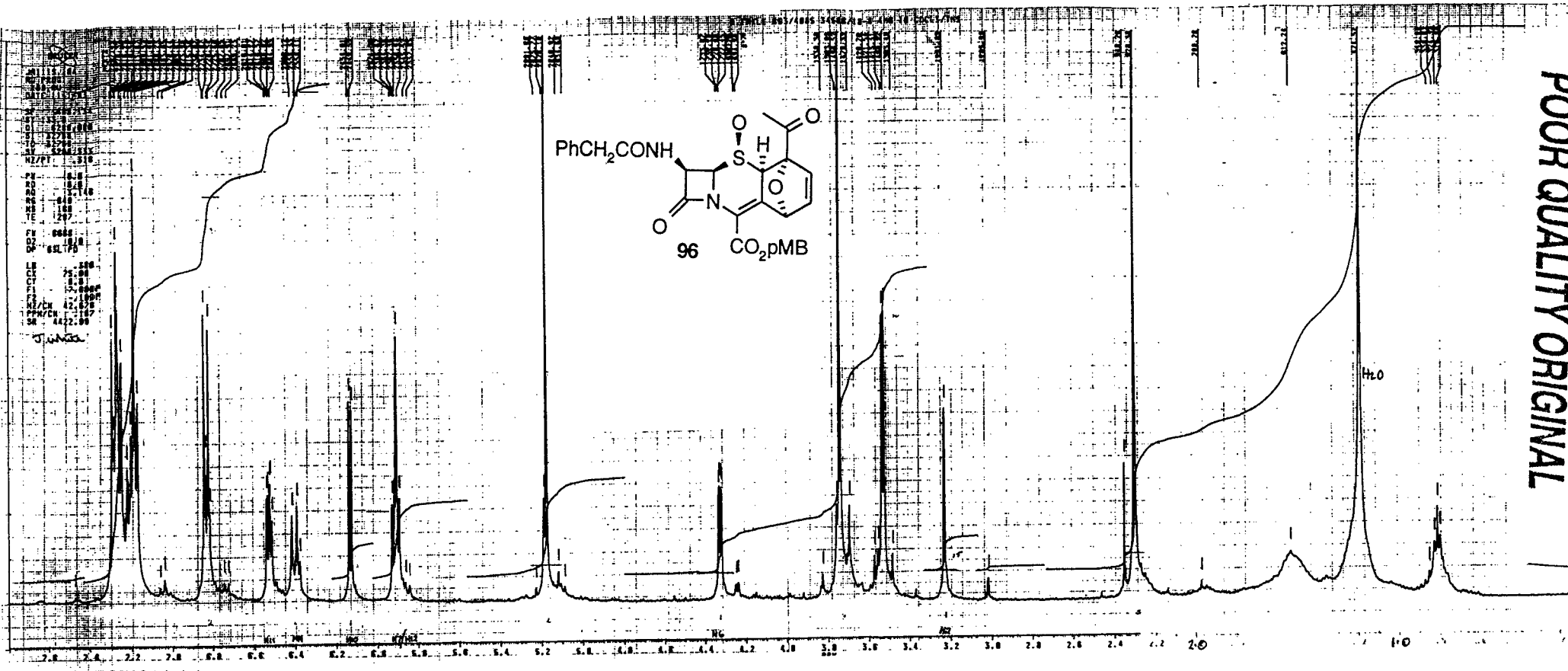
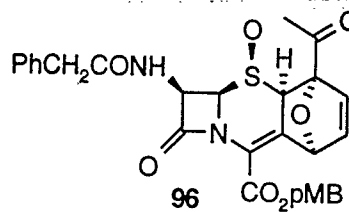
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Current Data Param
NAME
EXPNO
PROCNO
F2 - Acquisition P
Date
Time
PULPROG
SOLVENT
AQ
FIDRES
DE
RG
NUCLEUS
ML:
D1
P31
S4
D11
S2
P1
DE
SFO:
SAR
TD
VS
DS
F2 - Processing
S1
S2
V06
V08
L8
L9
PC
10 NMR plus param
GX
F1P
F1
F2P
F2
PPHCH
H2CH

SAR
11 MAY

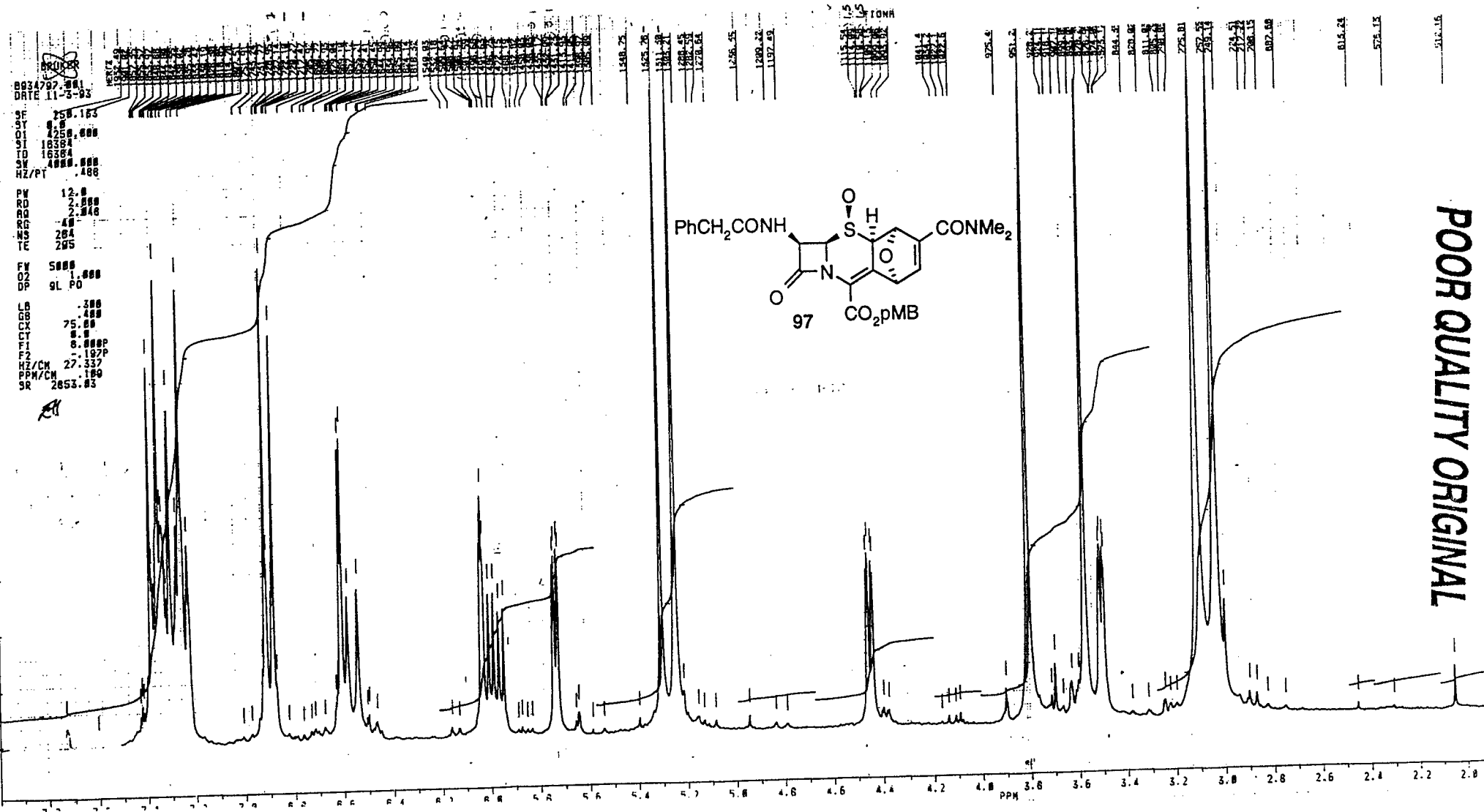
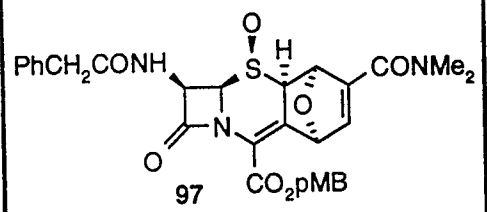
ORIGINAL

POOR QUALITY ORIGINAL



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F2 100.000
F3 100.000
F4 100.000
F5 100.000
F6 100.000
F7 100.000
F8 100.000
F9 100.000
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F11 100.000
F12 100.000
F13 100.000
F14 100.000
F15 100.000
F16 100.000
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F39 100.000
F40 100.000
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F46 100.000
F47 100.000
F48 100.000
F49 100.000
F50 100.000
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F58 100.000
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F64 100.000
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F95 100.000
F96 100.000
F97 100.000
F98 100.000
F99 100.000
F100 100.000

POOR QUALITY ORIGINAL



8034797-001
DATE 11-5-93
SF 258.163
ST 0.0
OI 4258.000
SI 18384
TD 18384
SV 4888.000
HZ/PT 188
PW 12.0
RD 2.000
RG 2.446
RG 4.0
NS 284
TE 285
FV 5000
OZ 1.000
DP 9L PO
LB 200
GB 400
CR 75.00
CT 0.0
FI 0.0000
F2 1.977
HZ/CN 27.337
PPM/CN 180
SR 2853.83

~~BRUKER~~

HERTZ

22. Andy Takle

Ref. No. 34586-758

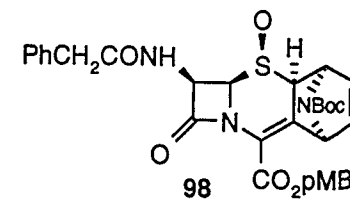
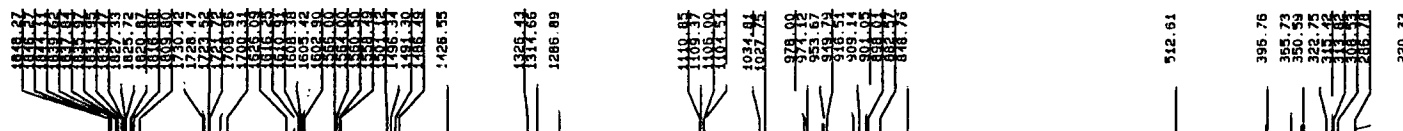
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AU PROG:
X00.AU
DATE 4-3-93
TIME 19.24

SA.NA B00578
SA.NO MA04 153
SOLVENT CDC13
SF 250.133
Q1 4600.000
SI 16384
TD 16384
SM 4000.000

AQ 2.048
RG 80
NS 64

LB .300
CX 37.50
CY 100.00
F1 9.501P
F2 -.297P
SR 2853.42

D1 2.0000000
P0 4.00
R6A
RD 0.0
PW 0.0
DE 158.60
NS 64
DS 0



H₂O

ppm

12

Research Programmes B14/217 . Ref. No. 31602-121A



HEATZ

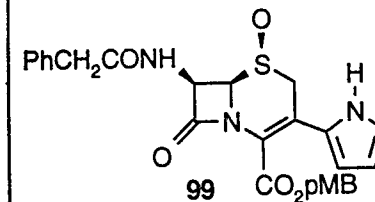
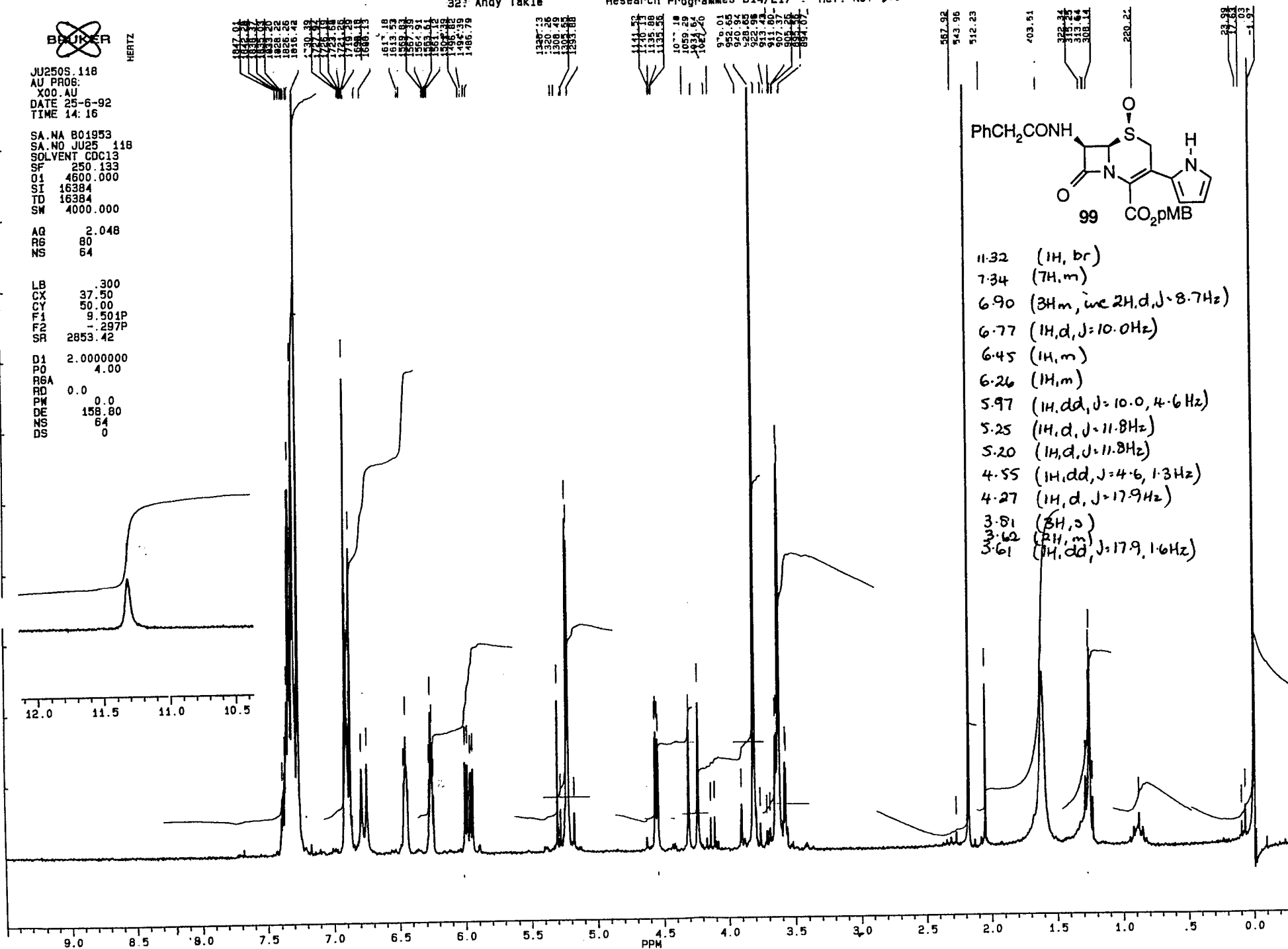
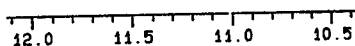
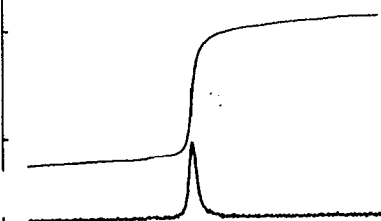
JU250S.118
AU PROG:
X00.AU
DATE 25-6-92
TIME 14:16

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SA.NA B01953
SA.NO JU25 118
SOLVENT CDC13
SF 250.133
O1 4600.000
SI 16384
TD 16384
SW 4000.000
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AQ	2.048
RG	80
NS	64

LB	.300
CX	37.50
CY	50.00
F1	9.501P
F2	-.297P
SR	2853.42

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D1      2.0000000
PO      4.00
RGA
RD      0.0
PW      0.0
DE      158.80
NS      64
DS      0
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11.32 (1H, br)
7.34 (7H, m)
6.90 (3H, m, we 2H, d, J = 8.7 Hz)
6.77 (1H, d, J = 10.0 Hz)
6.45 (1H, m)
6.26 (1H, m)
5.97 (1H, dd, J = 10.0, 4.6 Hz)
5.25 (1H, d, J = 11.8 Hz)
5.20 (1H, d, J = 11.8 Hz)
4.55 (1H, dd, J = 4.6, 1.3 Hz)
4.27 (1H, d, J = 17.9 Hz)
3.81 (3H, s)
3.62 (2H, m)
3.61 (1H, dd, J = 17.9, 1.6 Hz)

BRUKER

HERTZ

AP230S.114
AU PRO6:
X00.AU
DATE 23-4-93
TIME 10:37

SA.NA B00570
SA.NO AP23.114
SOLVENT CDCl3
SF 250.133
Q1 4600.000
S1 16384
TD 16384
SW 4000.000

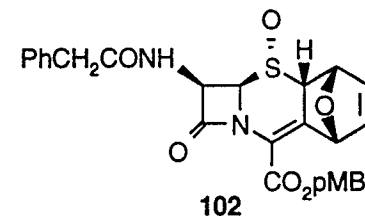
AQ 2.048
R6 32
NS 64

LB .300
CX 37.50
CY 50.00
F1 9.504P
F2 -.297P
SR 2853.42

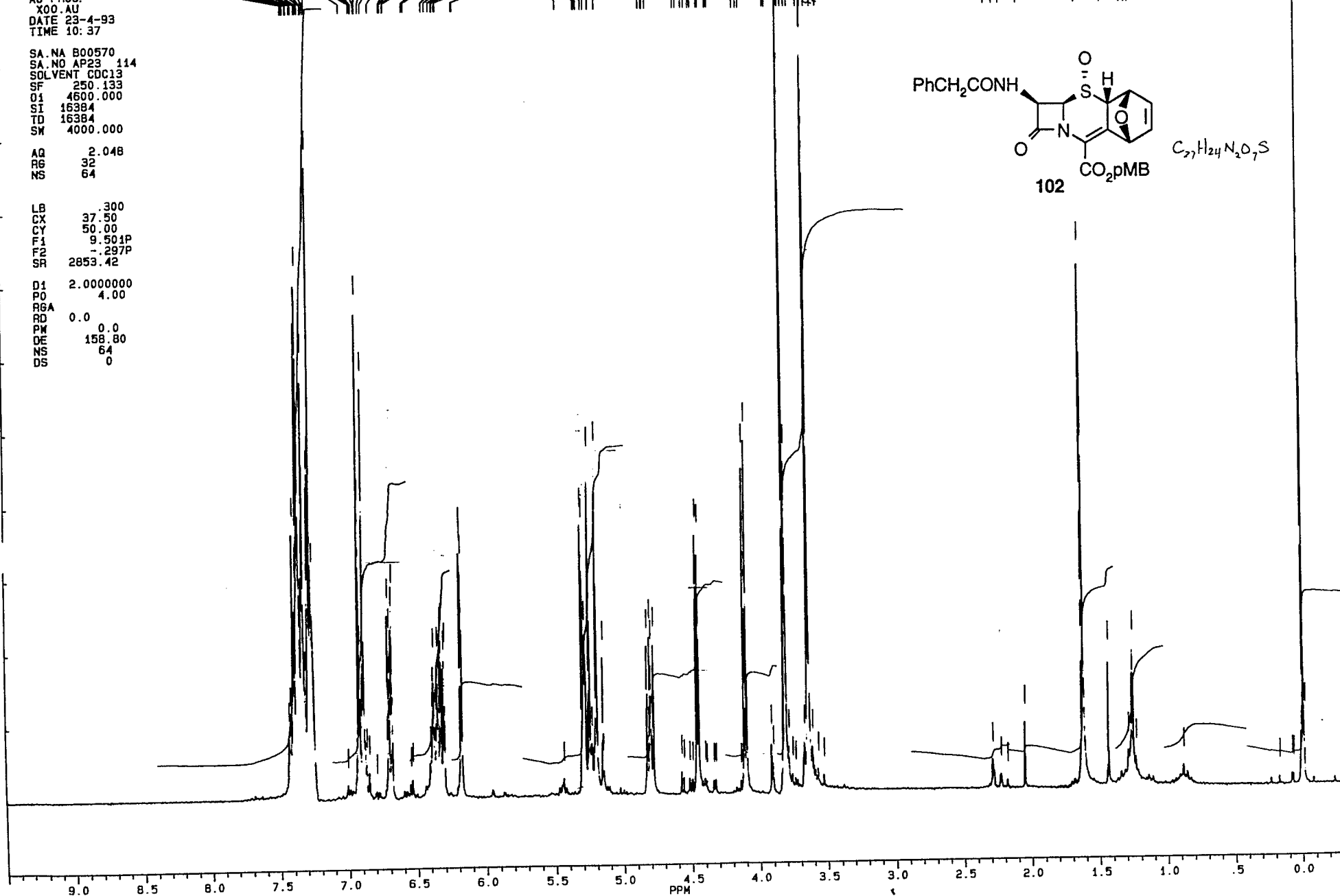
D1 2.0000000
P0 4.00
R6A 0.0
RD 0.0
PW 158.80
DE 64
NS 0
DS 0

22. Andy Takle

Ref. No. 34586-104



C₂₇H₂₄N₂O₇S



AK Takle 23/4/93

BRUKER

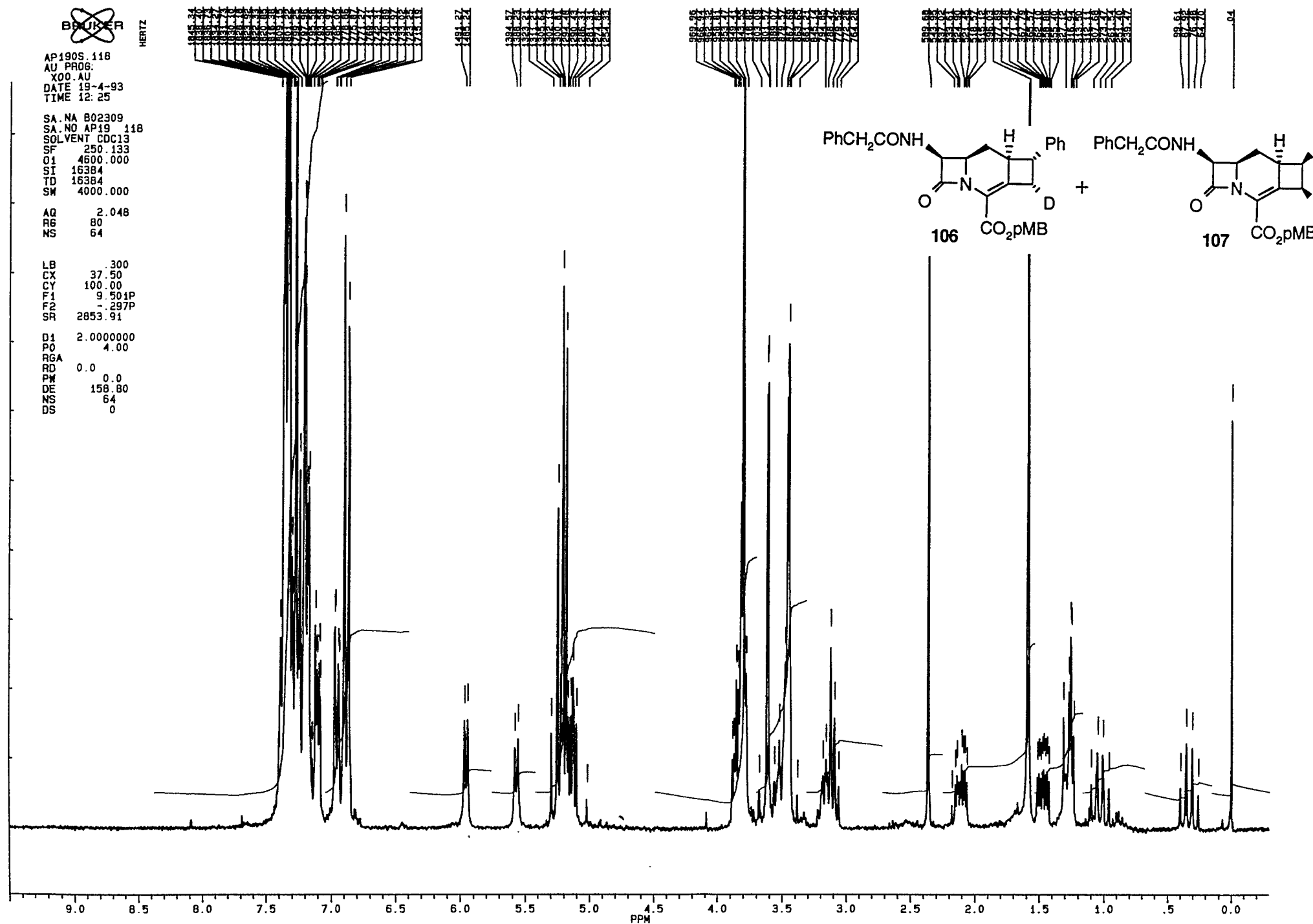
HERTZ

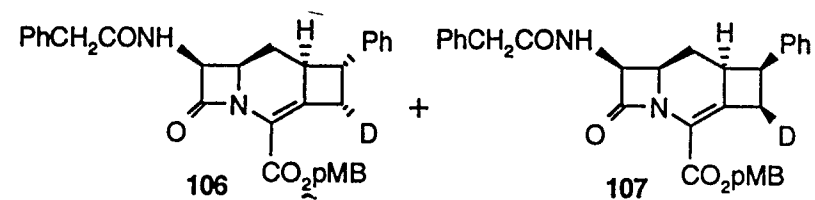
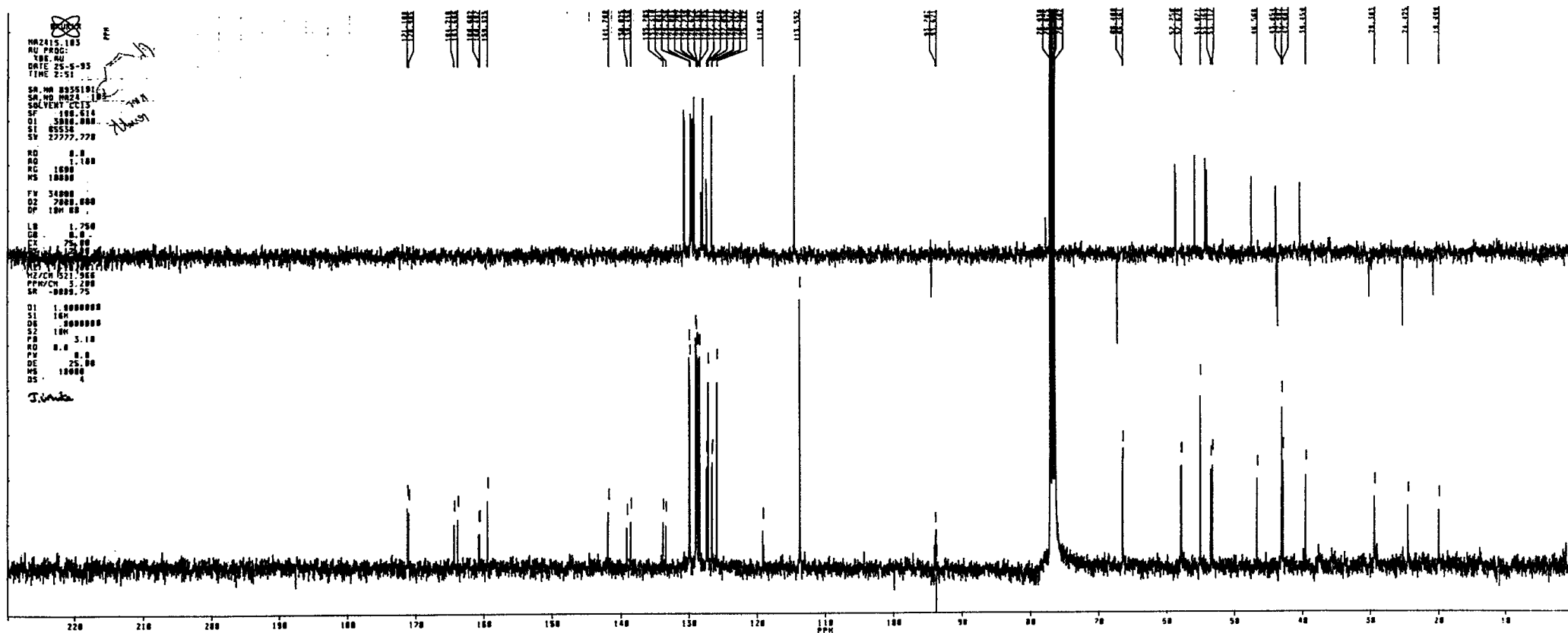
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AU PROS:
X00.AU
DATE 19-4-93
TIME 12:25
SA.NA 802309
SA.NO AP19.118
SOLVENT CDC13
SF 250.133
Q1 4600.000
SI 16384
TD 16384
SW 4000.000
AQ 2.048
R6 80
NS 64

LB 300
CX 37.50
CY 100.00
F1 9.501P
F2 -297P
SR 2853.91
D1 2.0000000
P0 4.00
RGA 0.0
RD 0.0
PW 158.80
DE 64
DS 0

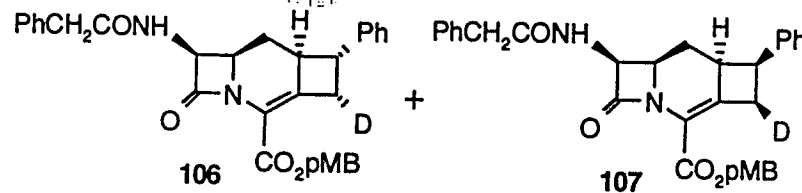
24. Richard Elliott

Ref. No.





89325101 R1611011 03/03/20 DEUTERIUM NMR SPECTRUM IN CHCL3



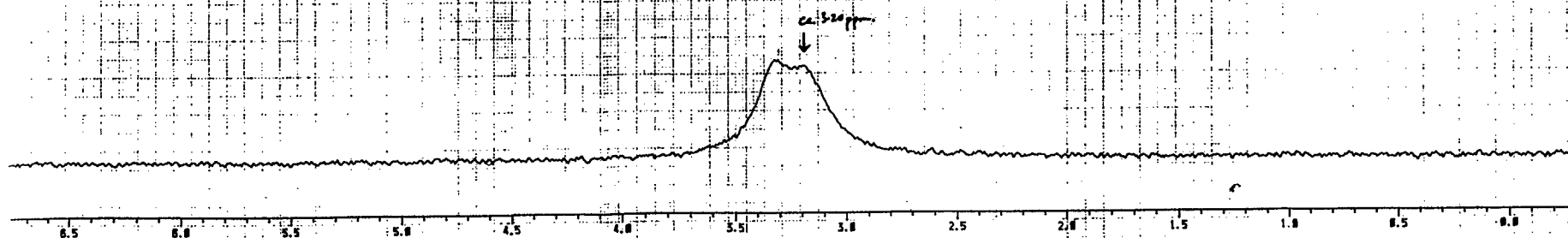
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NAME 89325101
EXPNO 1
PROCNO 1

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Date 03/03/20
Time 17:42
PULPROG zgpg30
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FIDRES 0.158333 Hz
DQ 283.8 usec
RG 32788
NUCLEUS 2H
ML1 00 dB
D1 0.1000000 sec
P31 100.0 usec
S4 32 dB
D11 0.0300000 sec
S2 24 dB
P1 6.8 usec
DE 253.8 usec
SFO1 81.4234500 MHz
SFOH 2463.45 Hz
TD 16394
NS 12298
DS 8

F2 - Processing parameters
SI 16394
SF 81.4234500 MHz
WDW EM
SSB 0
LB 8.50 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 70.00 cm
F1P 11.888 ppm
F1 675.65 Hz
F2P -8.368 ppm
F2 -18.43 Hz
PPMCH 0.16143 ppm/cm
HZCH 0.91544 Hz/cm

SAR
11 MAY 93



ORIGINAL / UNREPRODUCED

BROKER

HERTZ

JA0705.139
AU PRO6:
X00.AU
DATE 7-4-93
TIME 17:00

SA.NA 801937
SA.NO JA07.139
SOLVENT CDC13
SF 250.133
O1 4500.000
SI 16384
TD 16384
SM 4000.000

AQ 2.048
RG 80
NS 64

LB .300
CX 37.50
CY 100.00
F1 9.501P
F2 -.297P
SR 2853.91

D1 2.0000000
P0 4.00

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RD 0.0
PW 158.80
DE 64
NS 0

1300.84

1300.84

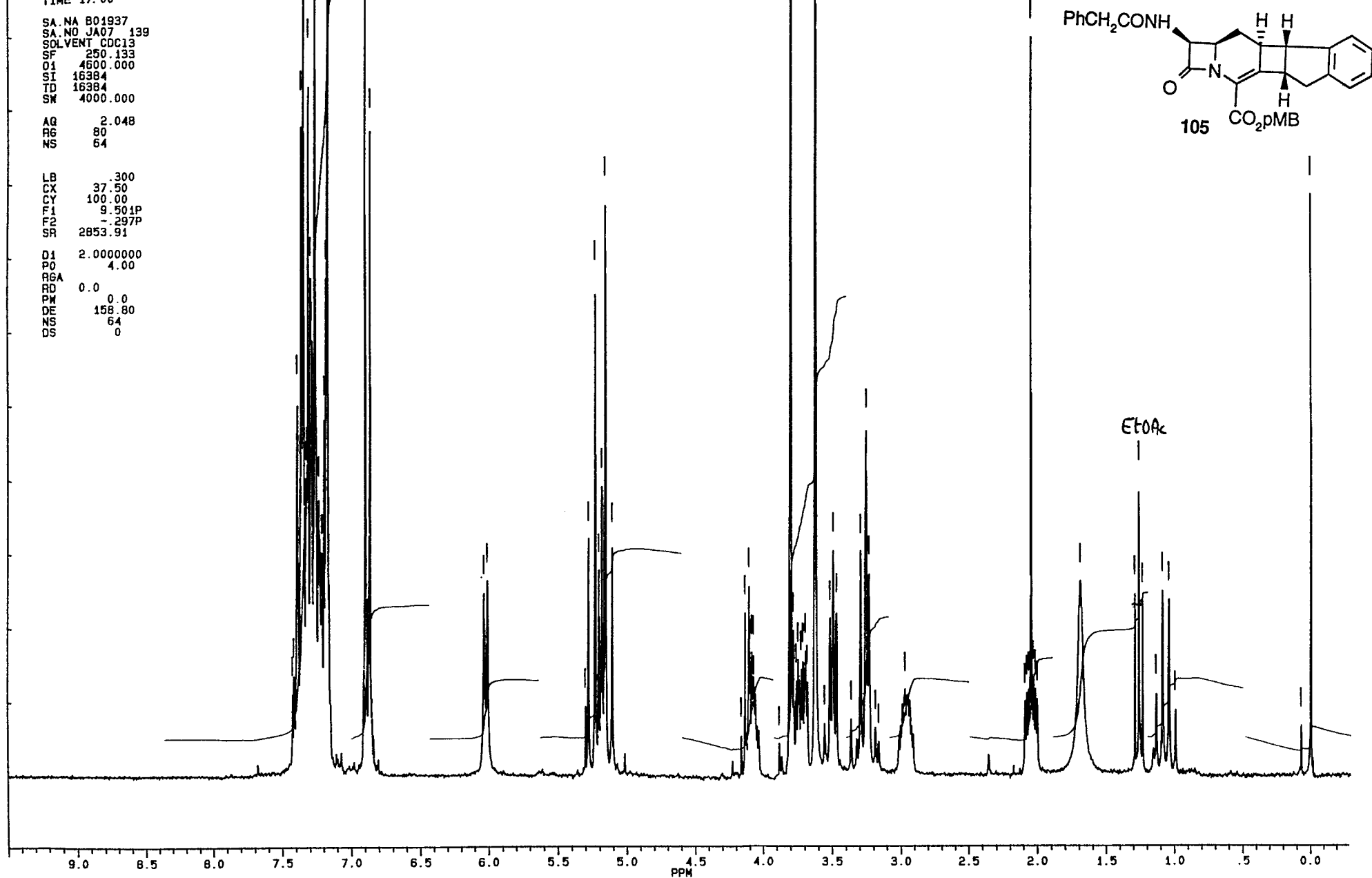
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1300.84

422.84

1300.84

1300.84



B14/219

HERTZ

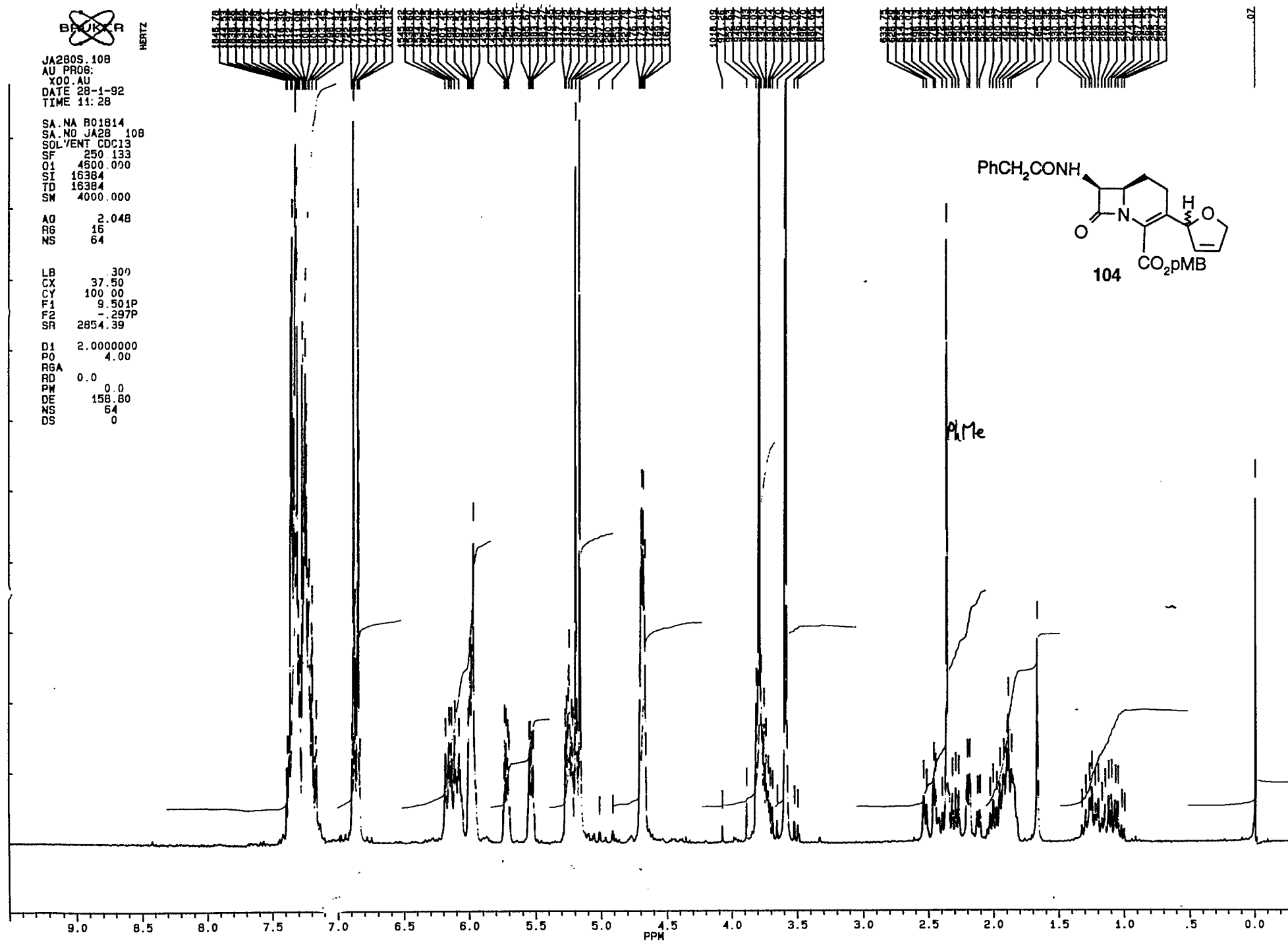
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AU PROG:
X00.AU
DATE 28-1-92
TIME 11:28

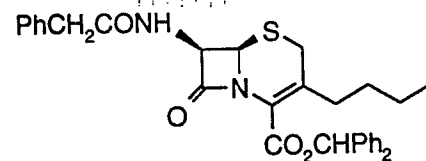
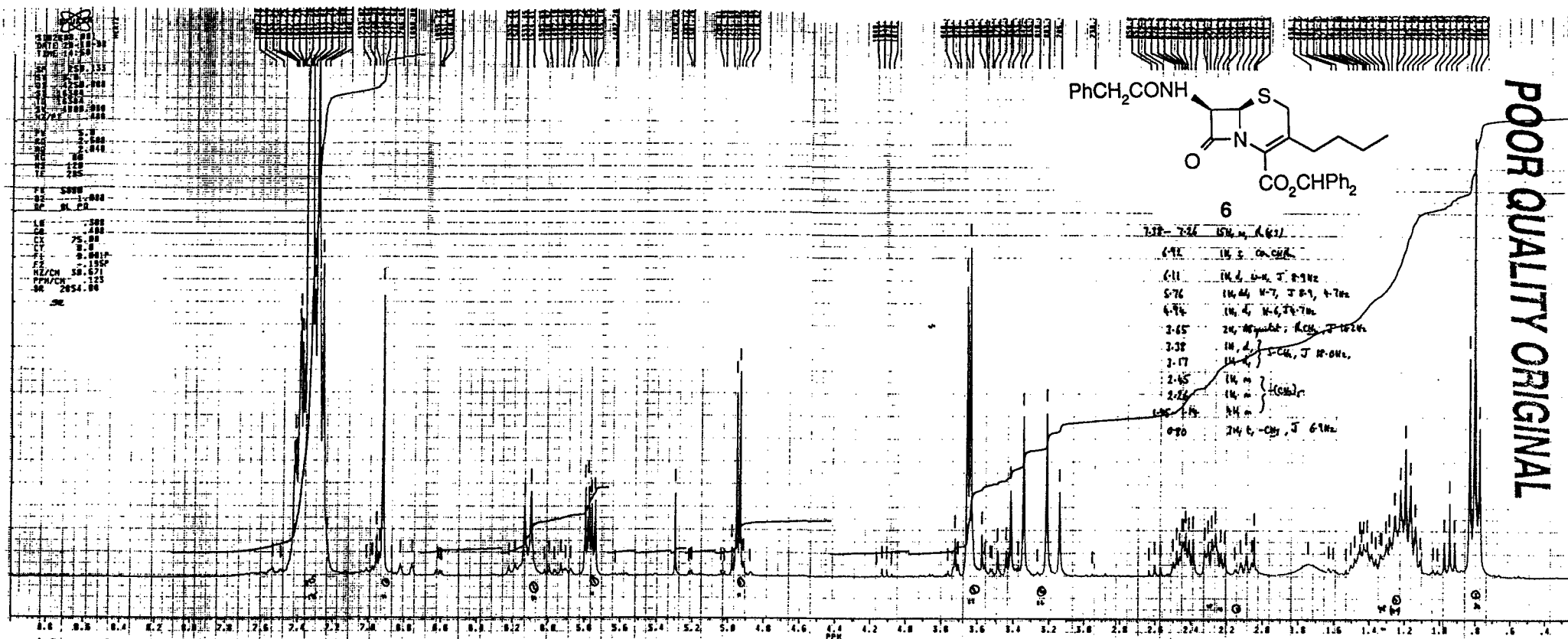
SA.NA B01814
SA.NO JA28 108
SOLVENT CDC13
SF 250.133
Q1 4500.000
SI 16384
TD 16384
SW 4000.000

AD 2.048
RG 16
NS 64

LB 300
CX 37.50
CY 100.00
F1 9.501P
F2 -297P
SR 2854.39

D1 2.0000000
P0 4.00
RGA
RD 0.0
PW 0.0
DE 158.80
NS 64
DS 0





POOR QUALITY ORIGINAL