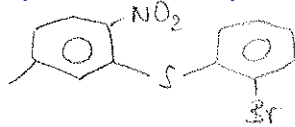


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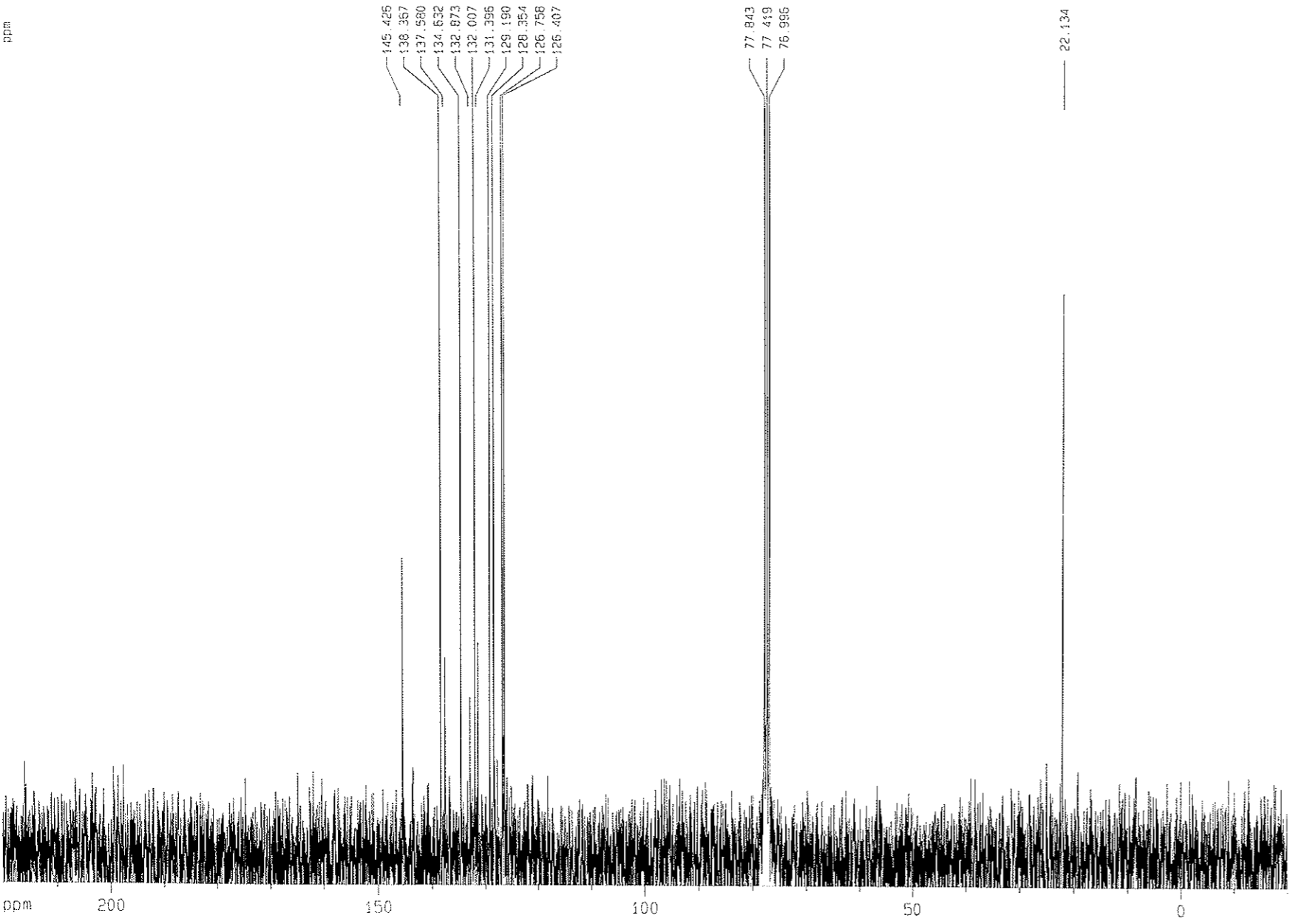
1D NMR plot parameters
CX              23.00 cm
CY              16.00 cm
F1P            10.000 ppm
F1              3001.30 Hz
F2P            -0.500 ppm
F2              -150.07 Hz
PPMCM           0.45652 ppm/cm
HZCM            137.01586 Hz/cm

```



7a.

mem24a



Current Data Parameters  
NAME 71  
EXPNO 2.2  
PROCNO 1

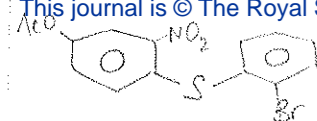
F2 - Acquisition Parameters  
Date\_ 20040225  
Time 17.11  
INSTRUM test  
PROBHD 5 mm Multinuc1  
PULPROG zgpg30  
TD 35968  
SOLVENT CDCl3  
NS 256  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.668329 Hz  
AQ 0.7482052 sec  
RG 60.6  
DW 20.800 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.25000000 sec  
d11 0.03006000 sec  
d12 0.00002000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 13C  
P1 7.20 usec  
PL1 1.00 dB  
SF01 75.4752653 MHz

\*\*\*\*\* CHANNEL f2 \*\*\*\*\*  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 84.00 usec  
PL2 2.00 dB  
PL12 20.00 dB  
PL13 20.00 dB  
SF02 300.1312005 MHz

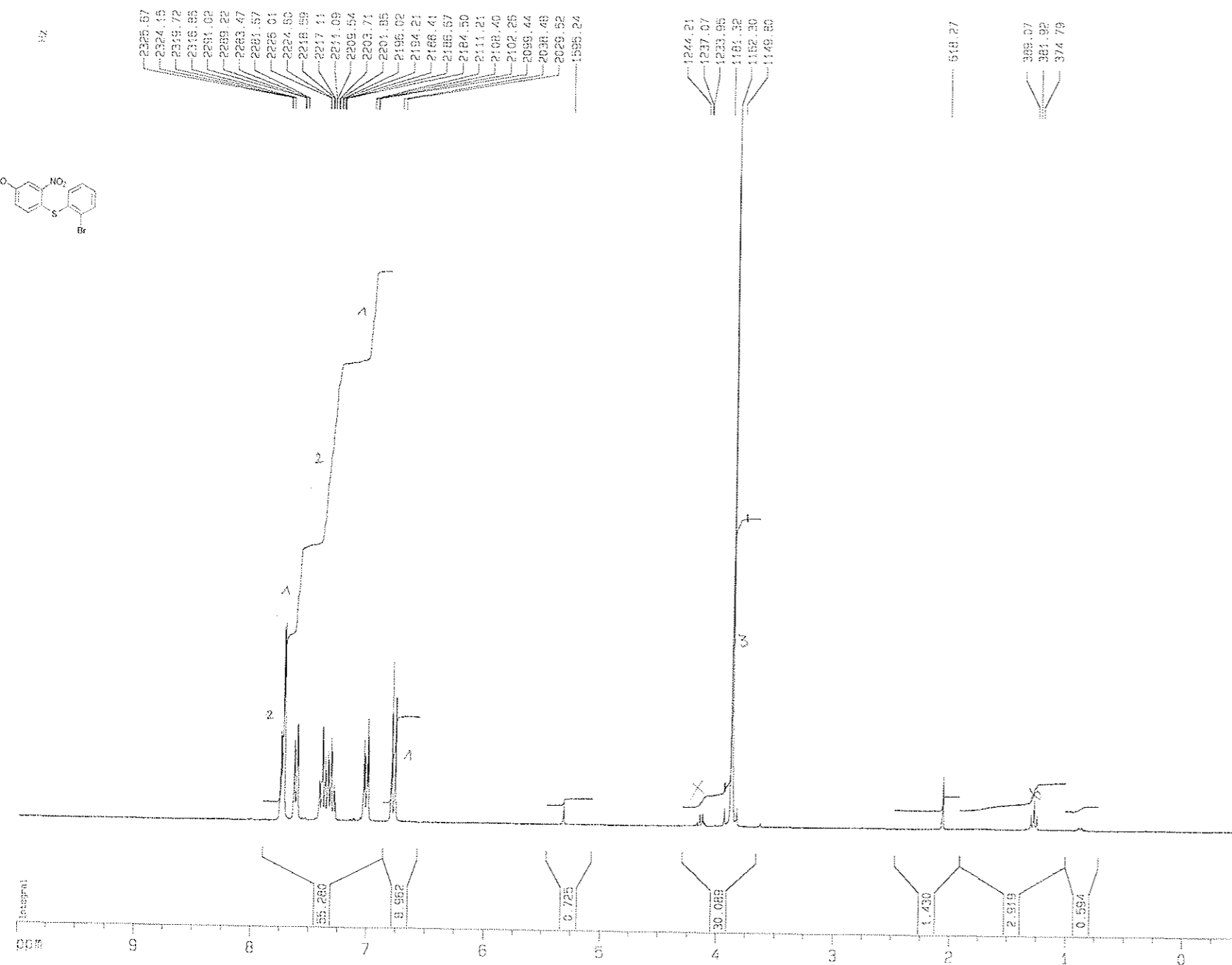
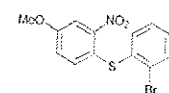
F2 - Processing parameters  
SI 32768  
SF 75.4677190 MHz  
WDW EM  
SSB 0  
LB 1.50 Hz  
GB 0  
PC 1.40

1D NMR plot parameters  
CX 23.00 cm  
CY 16.00 cm  
F1P 220.000 ppm  
F1 16602.90 Hz  
F2P -20.000 ppm  
F2 -1509.36 Hz  
PPHMC 10.43478 ppm/cm  
HZCM 787.48926 Hz/cm



MEM56B

7b



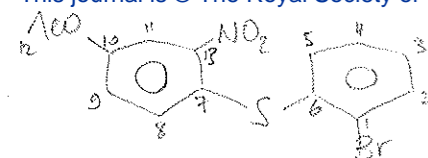
Current Data Parameters  
NAME J21  
EXPNO 555  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20040510  
Time 17.41  
INSTRUM test  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 8  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.094423 Hz  
AQ 5.2854397 sec  
RG 256  
DX 60.800 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.00000000 sec

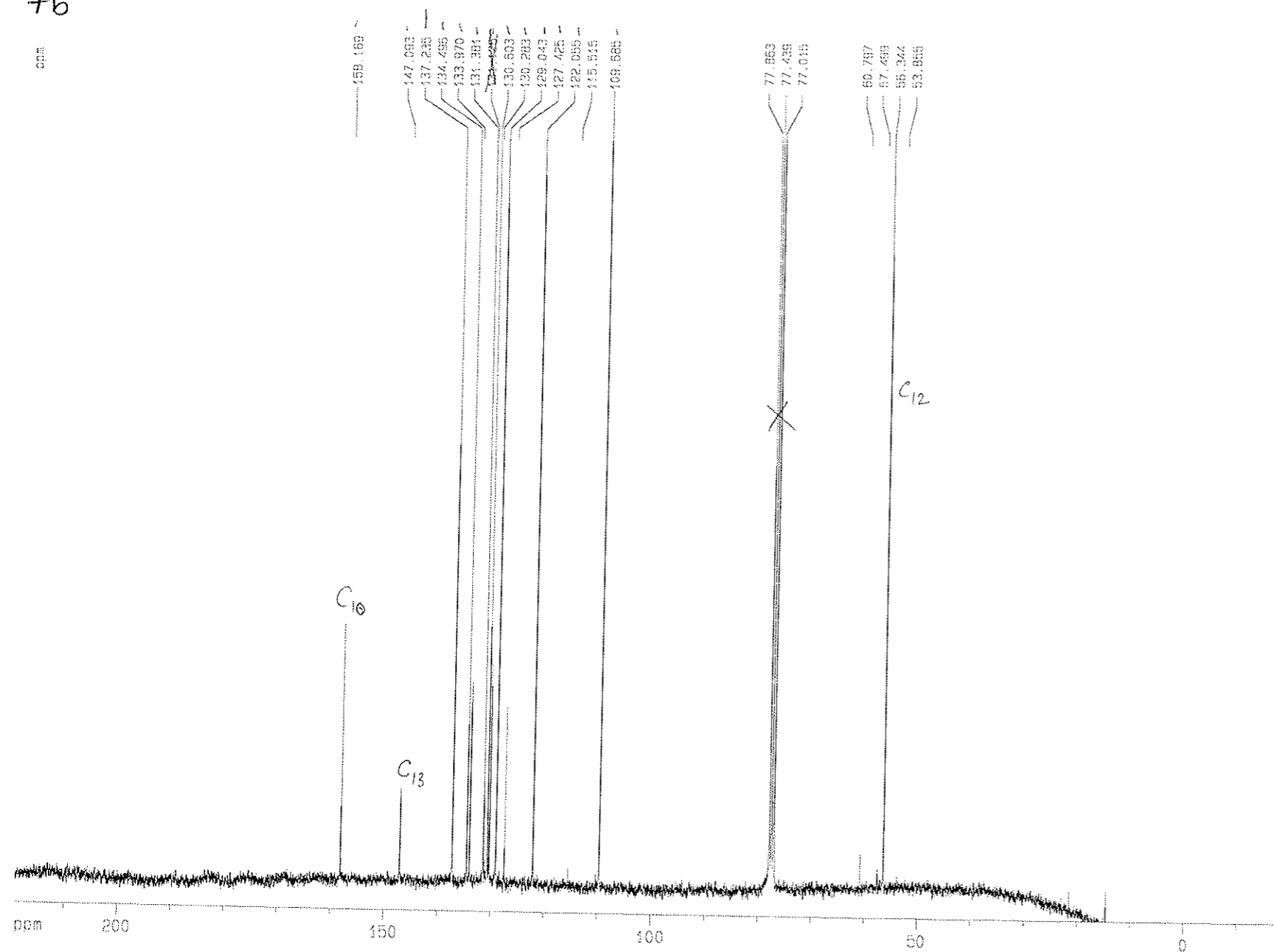
\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
P1 10.10 usec  
PL1 2.00 dB  
SFO1 300.1316534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

1D NMR plot parameters  
CX 23.00 cm  
CY 16.00 cm  
F1P 10.000 ppm  
F1 3001.30 Hz  
F2P -0.500 ppm  
F2 -150.07 Hz  
PPMCM 0.45652 ppm  
HZCM 137.01587 Hz/t



MEM56B



Current Data Parameters  
NAME J21  
EXPNO 557  
PROCNO 1

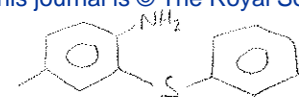
F2 - Acquisition Parameters  
Date\_ 20040510  
Time 19.47  
INSTRUM test  
PROBHD 5 mm Multinuc1  
PULPROG zgpg30  
TD 35968  
SOLVENT CDCl3  
NS 3600  
DS 4  
SWH 17985.611 Hz  
FIDRES 0.500045 Hz  
AQ 0.9999862 sec  
RG 32  
OW 27.860 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
d11 0.03000000 sec  
d12 0.0002000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 13C  
P1 7.20 usec  
PL1 1.00 dB  
SFO1 75.4752653 MHz

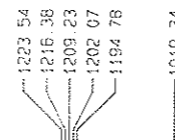
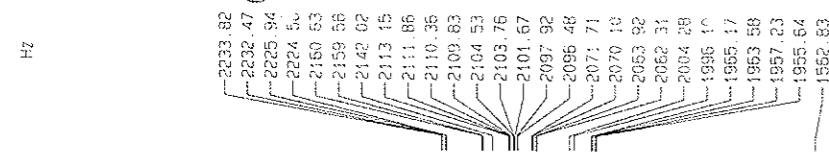
\*\*\*\*\* CHANNEL f2 \*\*\*\*\*  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 84.00 usec  
PL2 2.00 dB  
PL12 20.00 dB  
PL13 20.00 dB  
SFO2 300.1312005 MHz

F2 - Processing parameters  
SI 32768  
SF 75.4677190 MHz  
WDW EM  
SSB 0  
LB 1.50 Hz  
GB 0  
PC 1.40

1D NMR plot parameters  
CX 23.00 cm  
CY 16.00 cm  
F1P 220.000 ppm  
F1 16602.90 Hz  
F2F -20.000 ppm  
F2 -1509.36 Hz  
PPMCM 10.43478 ppm  
HZCM 787.48926 Hz/1



25b



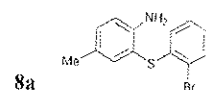
Current Data Param. 3  
NAME 1  
EXPNO 2.1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20040227  
Time 9.55  
INSTRUM test  
PROBHD 5 mm Multinuc1  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 8  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.094423 Hz  
AQ 5.2954397 sec  
RG 203.2  
DW 80.800 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.00000000 sec

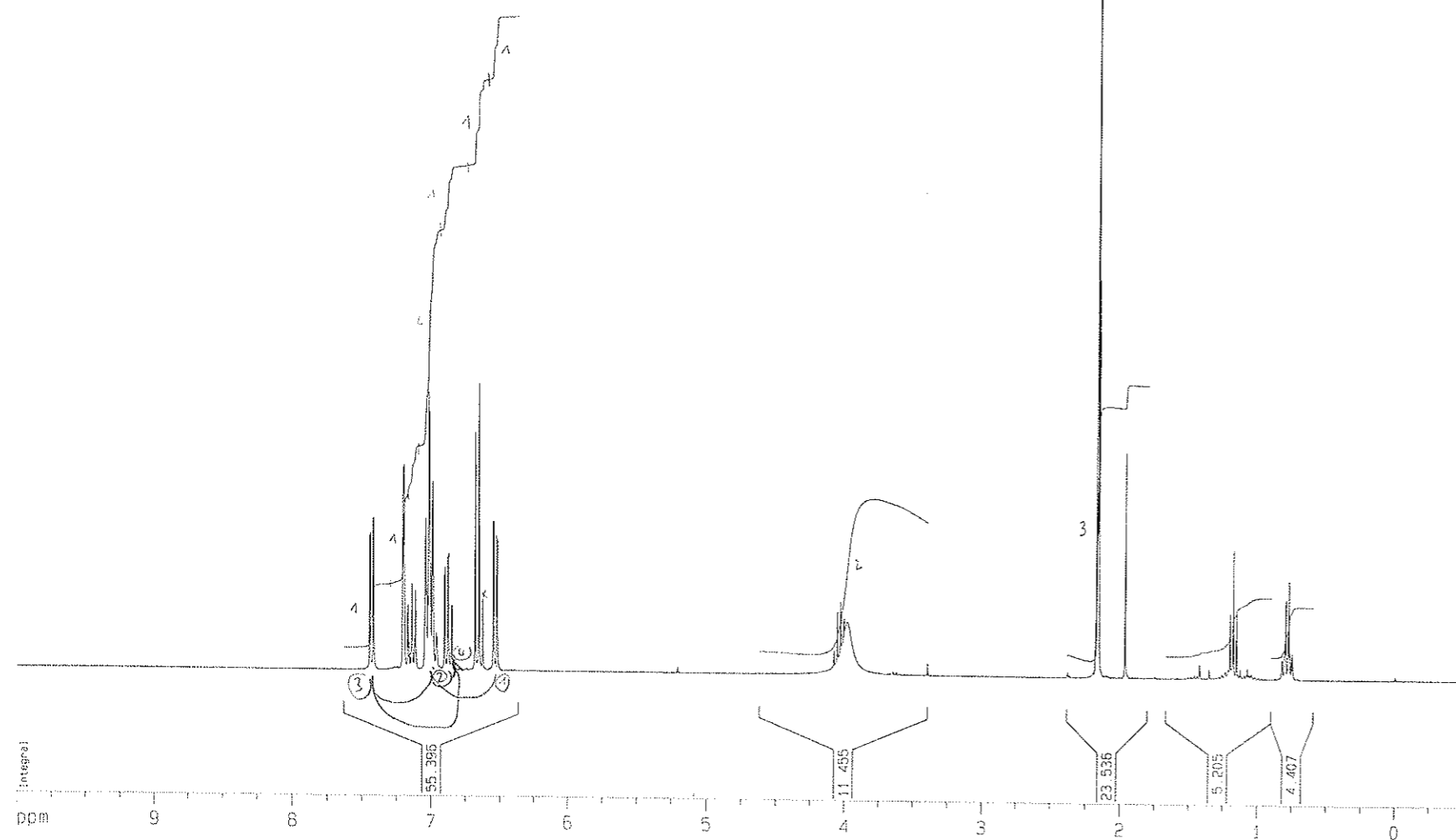
\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
P1 10.10 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

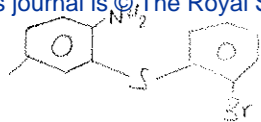
F2 - Processing parameters  
SI 32768  
SF 300.1300339 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

1D NMR plot parameters  
CX 23.00 cm  
CY 16.00 cm  
F1P 10.000 ppm  
F1 3001.30 Hz  
F2P -0.500 ppm  
F2 -150.07 Hz  
PPMCM 0.45652 ppm/cm  
HZCM 137.01588 Hz/cm



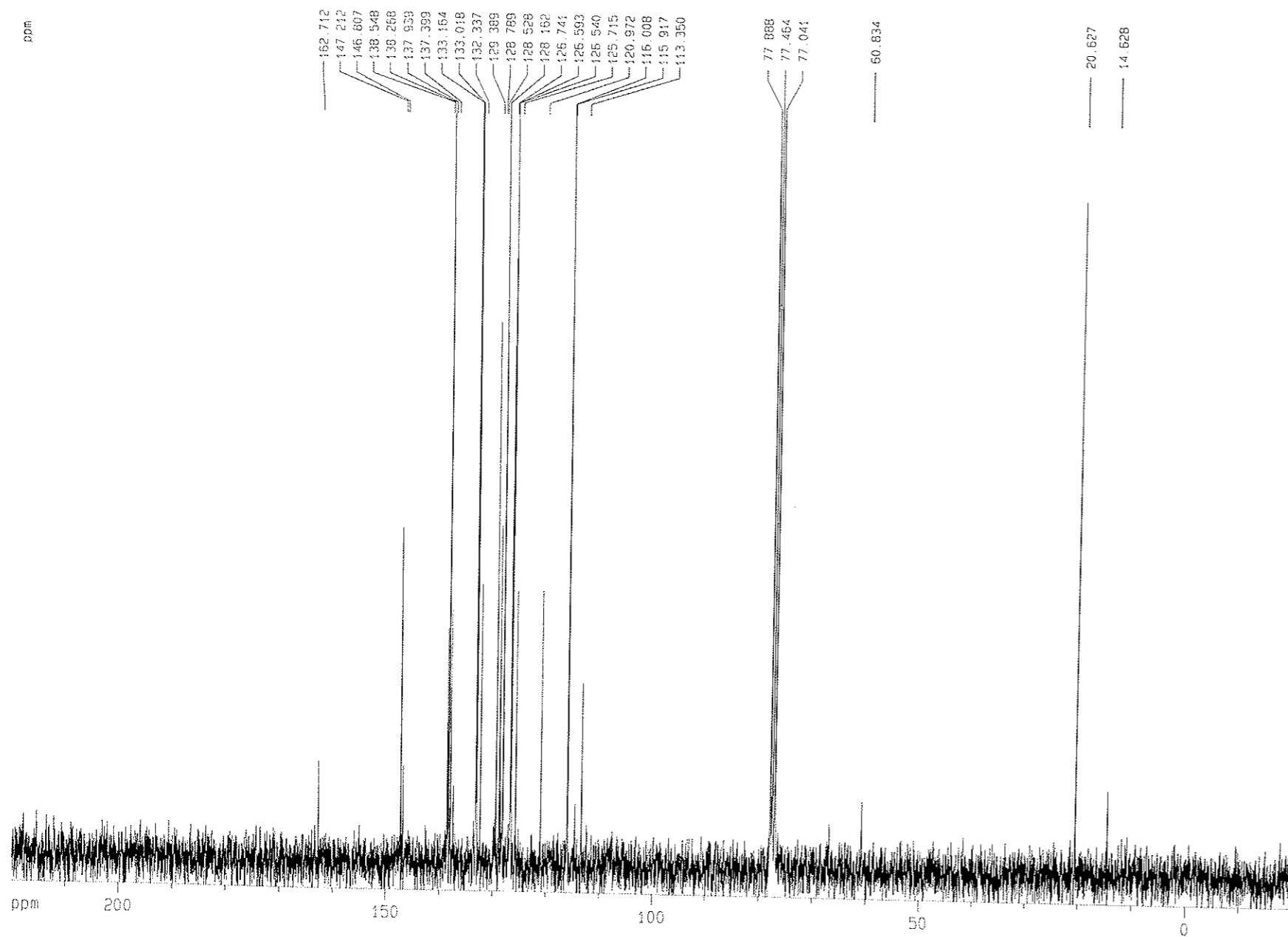
8a





8a

me: 25b



Current Data Parameters  
NAME: J21  
EXPNO: 283  
PROCNO: 1

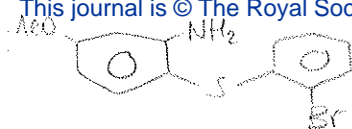
F2 - Acquisition Parameters  
Date\_: 20040227  
Time: 10.09  
INSTRUM: test  
PROBHD: 5 mm Multinuc1  
PULPROG: zgpg30  
TD: 35968  
SOLVENT: CDCl3  
NS: 256  
DS: 4  
SWH: 24038.461 Hz  
FIDRES: 0.668329 Hz  
AQ: 0.7482052 sec  
RG: 25.4  
DW: 20.800 usec  
DE: 6.00 usec  
TE: 300.0 K  
D1: 1.25000000 sec  
d11: 0.03000000 sec  
d12: 0.00002000 sec

===== CHANNEL f1 =====  
NUC1: 13C  
P1: 7.20 usec  
PL1: 1.00 dB  
SFO1: 75.4752653 MHz

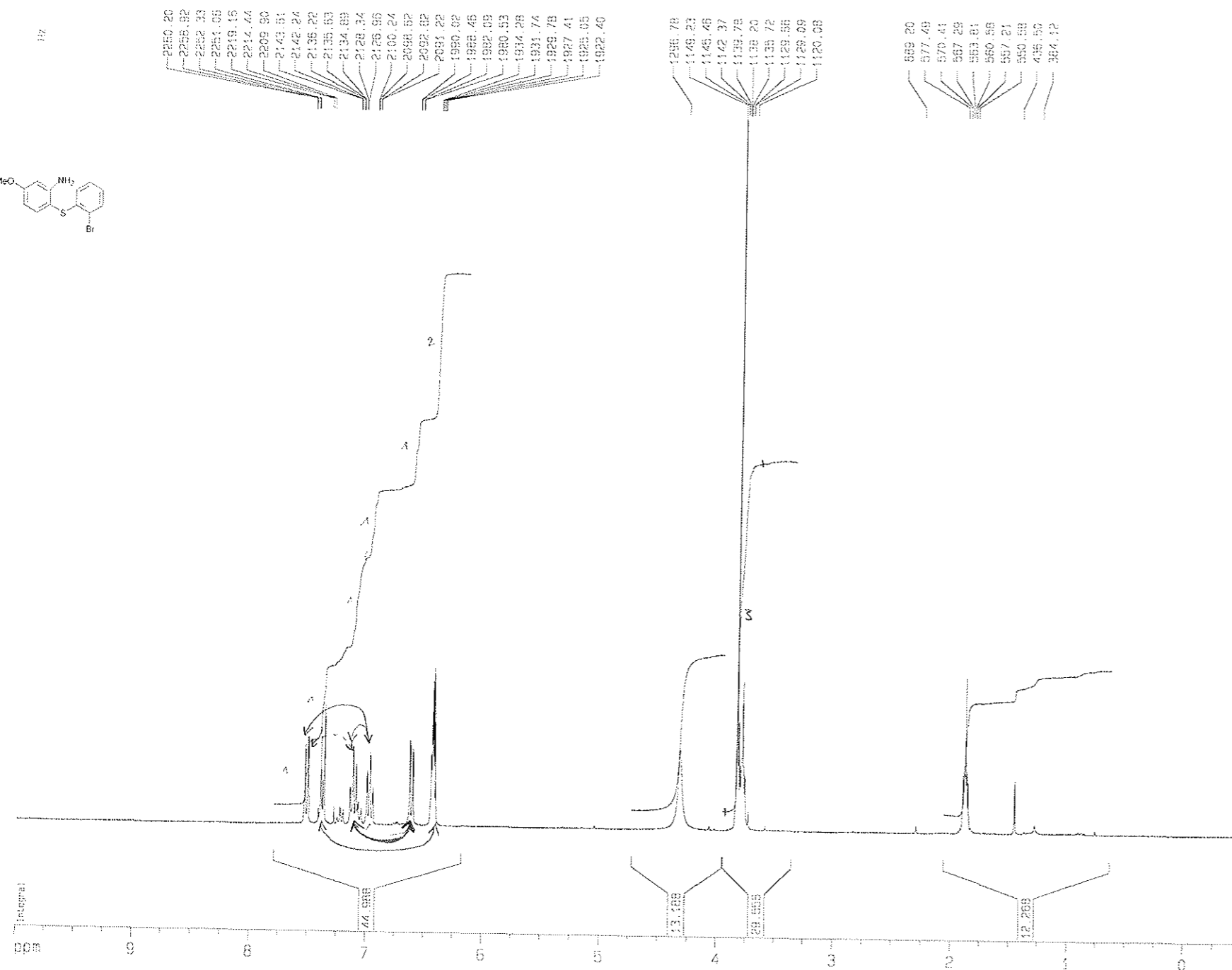
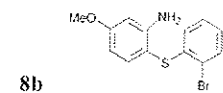
===== CHANNEL f2 =====  
CPDPRG2: waltz16  
NUC2: 1H  
PCPD2: 84.00 usec  
PL2: 2.00 dB  
PL12: 20.00 dB  
PL13: 20.00 dB  
SFO2: 300.1312005 MHz

F2 - Processing parameters  
SI: 32768  
SF: 75.4677190 MHz  
WDW: EM  
SSB: 0  
LB: 1.50 Hz  
GB: 0  
PC: 1.40

1D NMR plot parameters  
CX: 23.00 cm  
CY: 16.00 cm  
F1P: 220.000 ppm  
F1: 16602.90 Hz  
F2P: -20.000 ppm  
F2: -1509.36 Hz  
PPHCM: 10.43478 ppm/cm  
HZCM: 787.48926 Hz/cm



mem58a



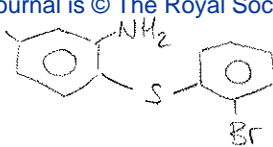
Current Data Parameters  
NAME J21  
EXPNO 555  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20040912  
Time 22.48  
INSTRUM test  
PROBHD 5 mm Multinuc1  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 8  
DS 2  
SWH 8188.119 Hz  
FIDRES 0.094423 Hz  
AQ 5.2854397 sec  
RG 161.3  
DN 80.600 usec  
DE 5.00 usec  
TE 300.0 K  
D1 1.0000000 sec

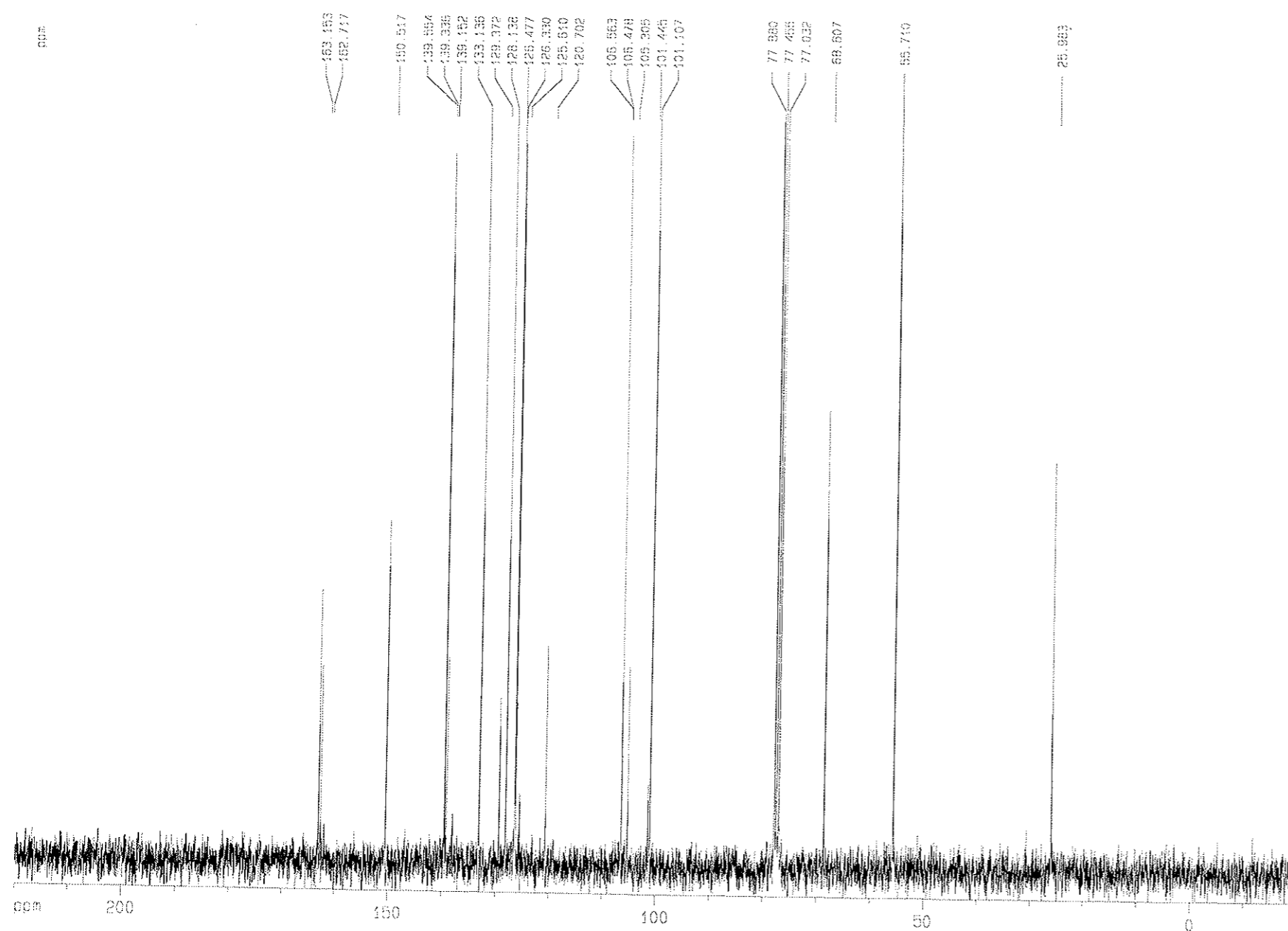
\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
P1 10.10 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

1D NMR plot parameters  
CX 23.00 cm  
CY 15.00 cm  
F1P 10.000 ppm  
F1 3001.30 Hz  
F2P -0.500 ppm  
F2 -150.07 Hz  
PPMCM 0.45652 ppm/  
HZCM 137.01587 Hz/1



MEM58A



Current Data Parameters  
NAME J21  
EXPNO 575  
PROCNO 1

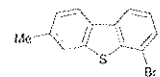
F2 - Acquisition Parameters  
Date\_ 20040813  
Time 13.33  
INSTRUM test  
PROBHD 5 mm Multinuc1  
PULPROG zgpg30  
TD 35968  
SOLVENT CDCl3  
NS 256  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.668329 Hz  
AQ 0.7482652 sec  
RG 32  
DX 20.000 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.25000000 sec  
d11 0.03000000 sec  
d12 0.00002000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 13C  
P1 7.20 usec  
PL1 1.00 dB  
SFO1 75.4752653 MHz

\*\*\*\*\* CHANNEL f2 \*\*\*\*\*  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 84.00 usec  
PL2 2.00 dB  
PL12 20.00 dB  
PL13 20.00 dB  
SFO2 300.1342055 MHz

F2 - Processing parameters  
SI 32768  
SF 75.4677150 MHz  
WDW EM  
SSB 0  
LB 1.50 Hz  
GB 0  
PC 1.40

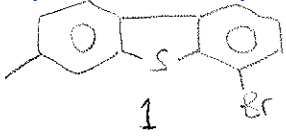
1D NMR plot parameters  
CX 23.00 cm  
CY 16.00 cm  
F1F 220.000 ppm  
F1 16502.90 Hz  
F2F -20.000 ppm  
F2 -1500.36 Hz  
PPMCM 10.43478 ppm  
HZCM 757.48926 Hz/1



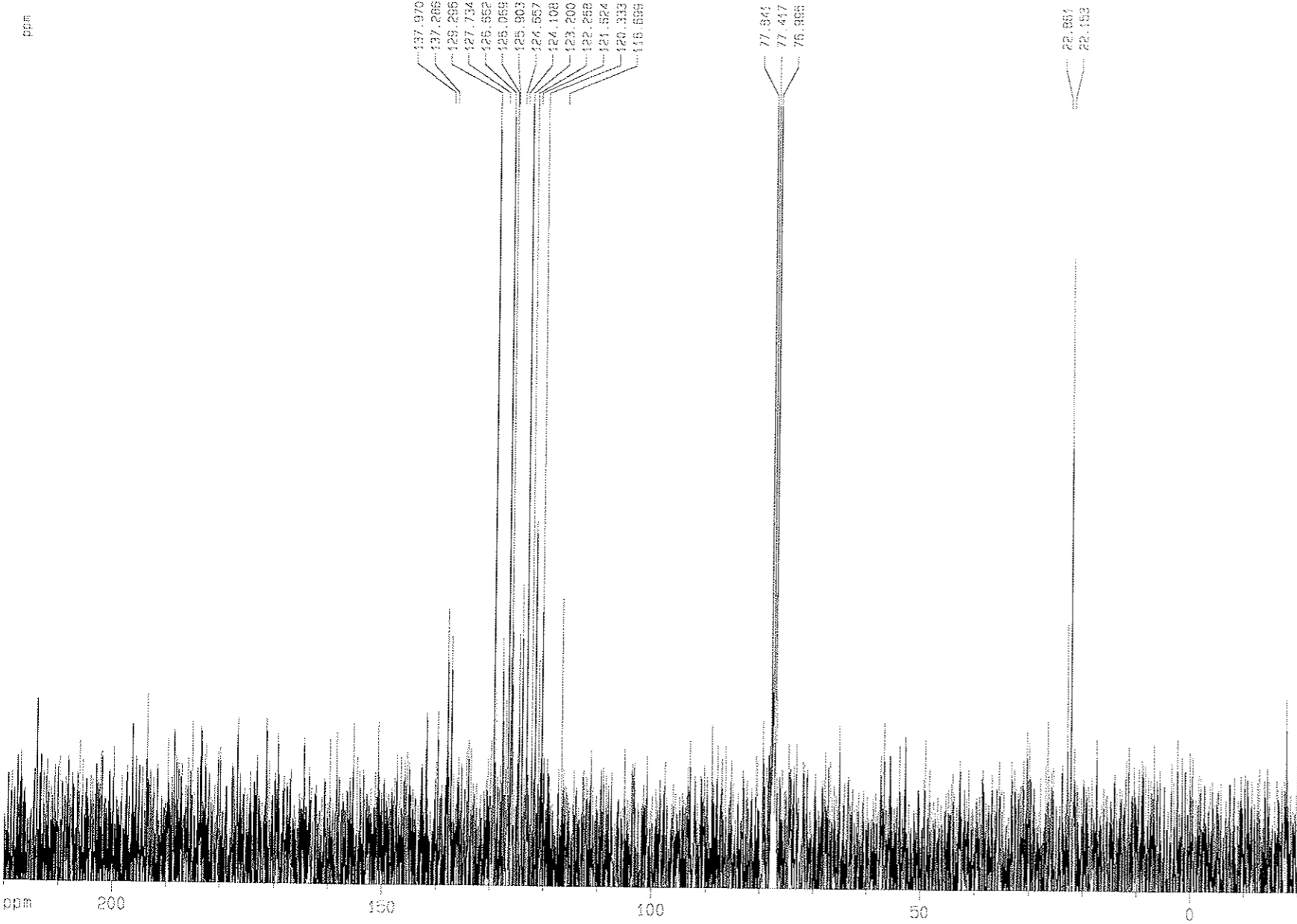
```

1D NMR plot parameters
CX          23.00 cm
CY          16.00 cm
F1P         10.000 ppm
F1          3001.30 Hz
F2P         -0.500 ppm
F2          -150.07 Hz
PPMCM       0.45652 ppm/cm
HZCM        137.01586 Hz/cm

```



MEM52B



Current Data Parameters  
NAME J21  
EXPNO 570  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20040513  
Time 13.16  
INSTRUM test  
PROBHD 5 mm Multinuc1  
PULPROG zgpg30  
TD 32768  
SOLVENT CDCl3  
NS 256  
DS 4  
SWH 24038.451 Hz  
FIDRES 0.660389 Hz  
AQ 0.7482052 sec  
RG 22.6  
DW 20.800 usec  
DE 6.00 usec  
TE 300.0 K  
S1 1.25000000 sec  
d11 0.03000000 sec  
d12 0.00000000 sec

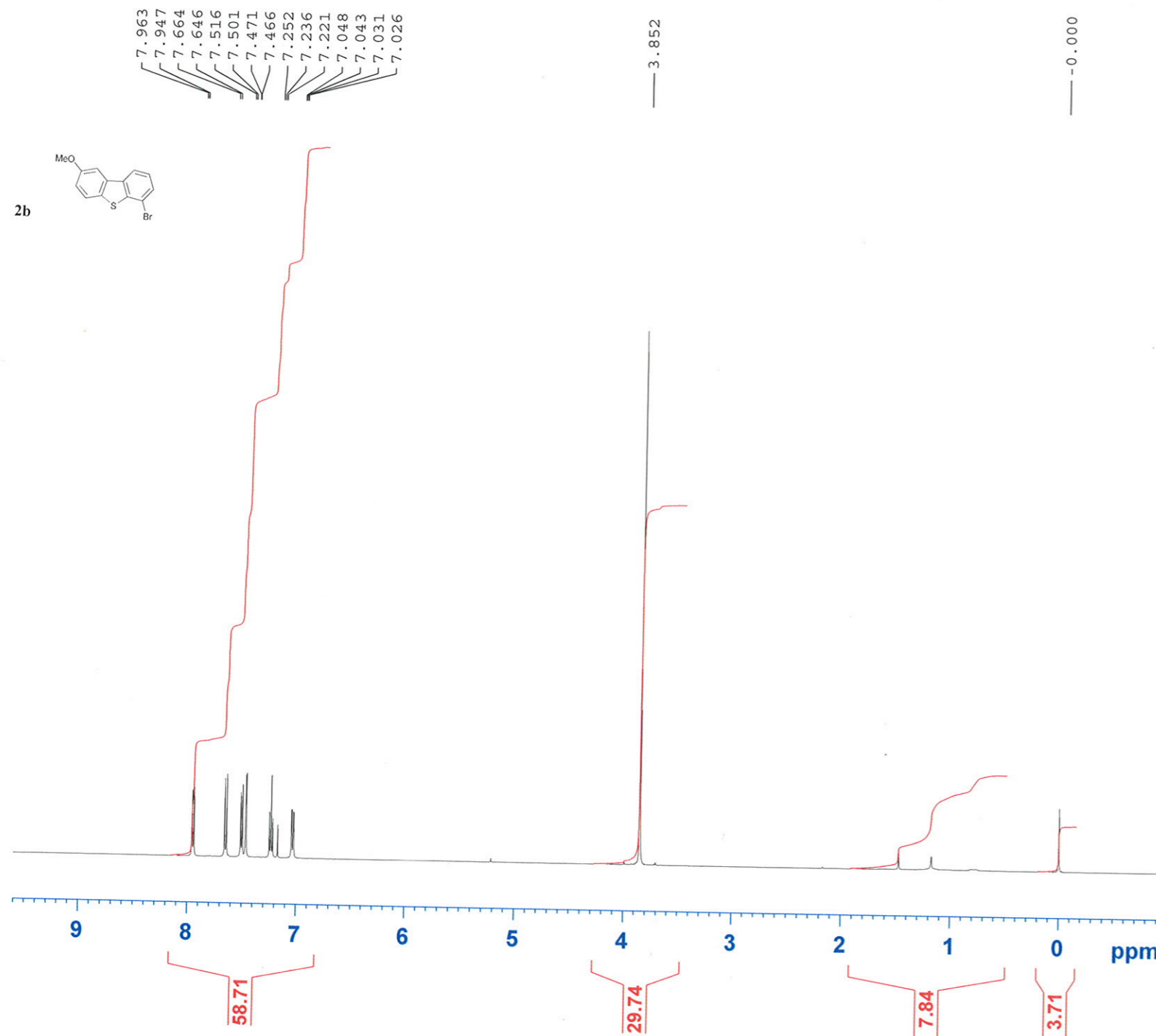
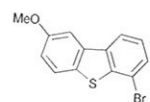
===== CHANNEL f1 =====  
NUC1 13C  
P1 7.20 usec  
PL1 1.00 dB  
SFO1 75.4782653 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 84.00 usec  
PL2 2.00 dB  
PL12 20.00 dB  
PL13 20.00 dB  
SFO2 300.1312005 MHz

F2 - Processing parameters  
S1 32768  
SF 75.4677190 MHz  
WDW EM  
SSB 0  
LB 1.50 Hz  
GB 0  
PC 1.40

1D NMR plot parameters  
CX 23.00 cm  
CY 16.00 cm  
F1P 220.000 ppm  
F1 16502.50 Hz  
F2P -20.000 ppm  
F2 -1509.36 Hz  
PPMCM 10.43478 ppm  
HZCM 757.48526 Hz/1

2b



**BRUKER**

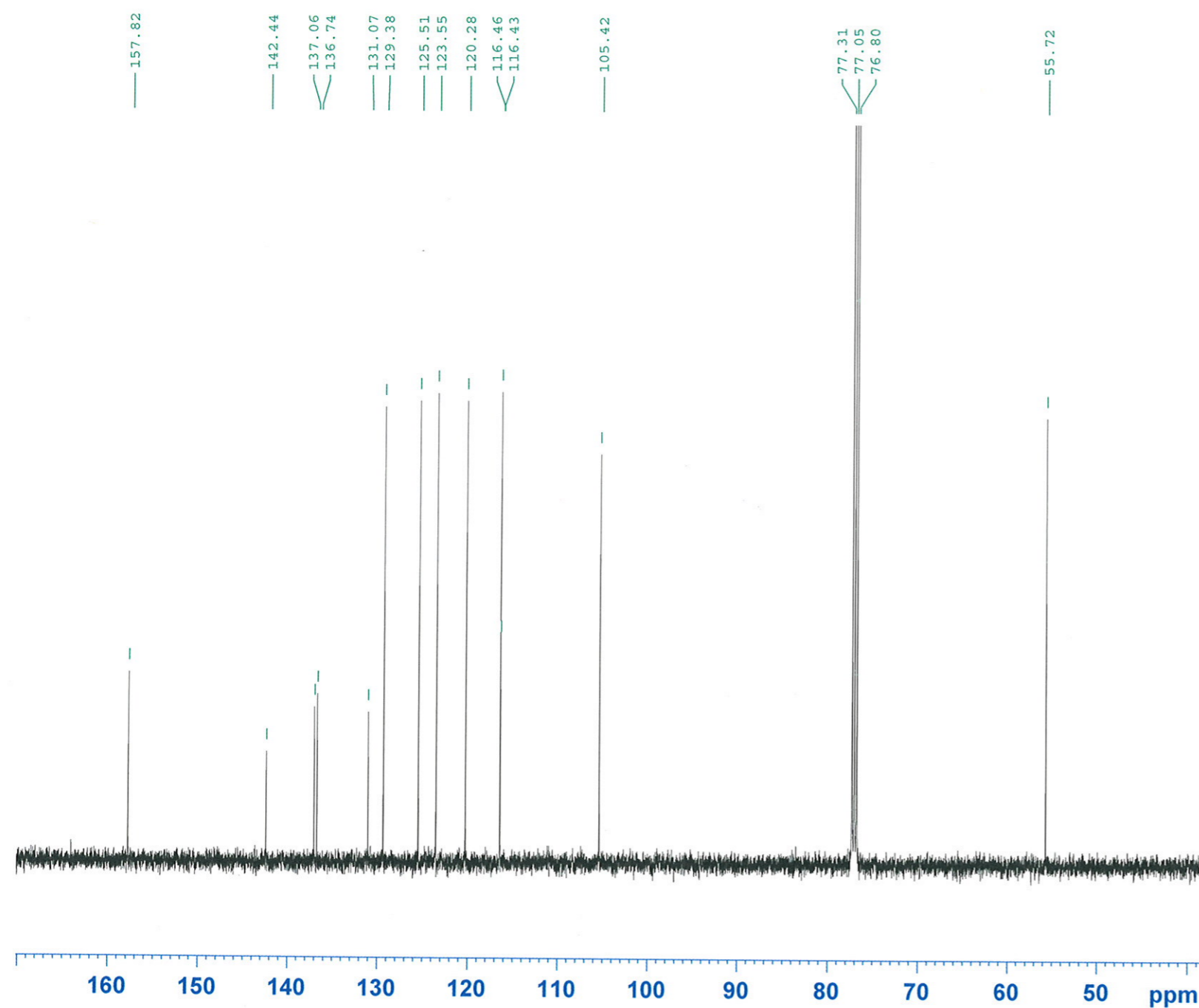
**Newcastle University**

**CANCER RESEARCH UK**

NAME KMC-386-244  
EXPNO 10  
PROCNO 1  
Date\_ 20101011  
Time\_ 11.45  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 161  
DW 48.400 usec  
DE 12.29 usec  
TE 294.3 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 14.80 usec  
PL1 1.00 dB  
PL1W 18.33646011 W  
SFO1 500.3030896 MHz  
SI 65536  
SF 500.3000562 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

2b

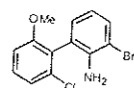


NAME KMC-386-244  
EXPNO 11  
PROCNO 1  
Date\_ 20101011  
Time\_ 12.39  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 256  
DS 2  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010548 sec  
RG 575  
DW 16.800 usec  
DE 7.83 usec  
TE 295.7 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 9.00 usec  
PL1 0.00 dB  
PL1W 82.38987732 W  
SFO1 125.8131151 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 80.00 usec  
PL2 1.00 dB  
PL12 17.00 dB  
PL13 21.00 dB  
PL2W 18.33646011 W  
PL12W 0.46059108 W  
PL13W 0.18336460 W  
SFO2 500.3020012 MHz  
SI 65536  
SF 125.8005350 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

sr98c ac



3-bromo-2'-chloro-6'-methoxy-[1,1'-biphenyl]-2-amine (11a)

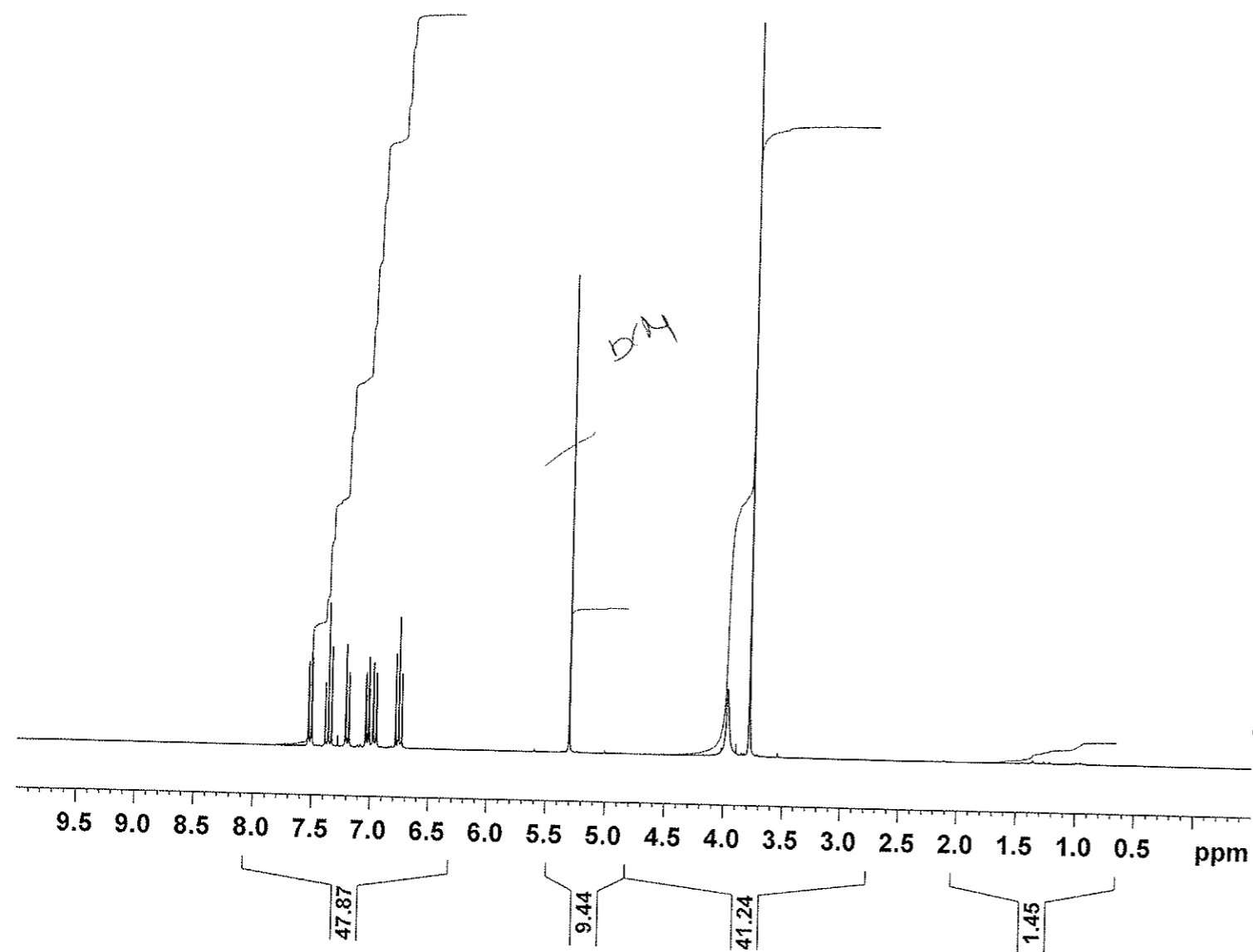


Current Data Parameters  
NAME sr98c  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20051215  
Time\_ 13.16  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 45.3  
DW 80.800 usec  
DE 6.00 usec  
TE 292.5 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

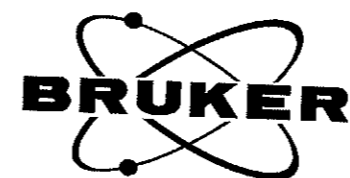
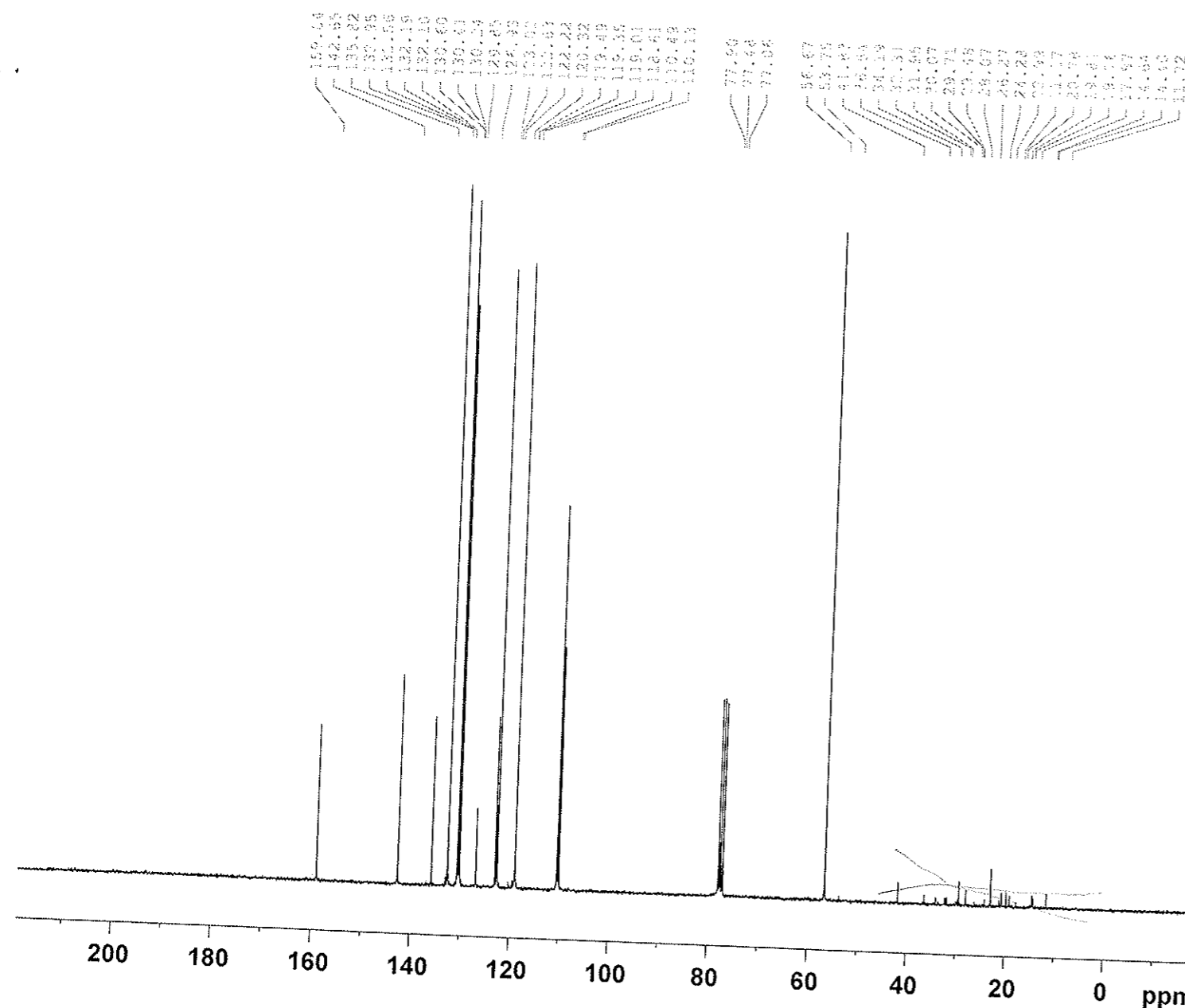
===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00



sr98a ac

11a.



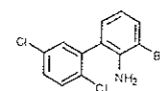
Current Data Parameters  
NAME sr98a  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20051116  
Time 21.11  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zgpg30  
TD 35968  
SOLVENT CDCl3  
NS 3600  
DS 4  
SWH 17985.611 Hz  
FIDRES 0.500045 Hz  
AQ 0.9999882 sec  
RG 2048  
DW 27.800 usec  
DE 6.00 usec  
TE 306.5 K  
D1 1.00000000 sec  
d11 0.03000000 sec  
DELTA 0.89999998 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

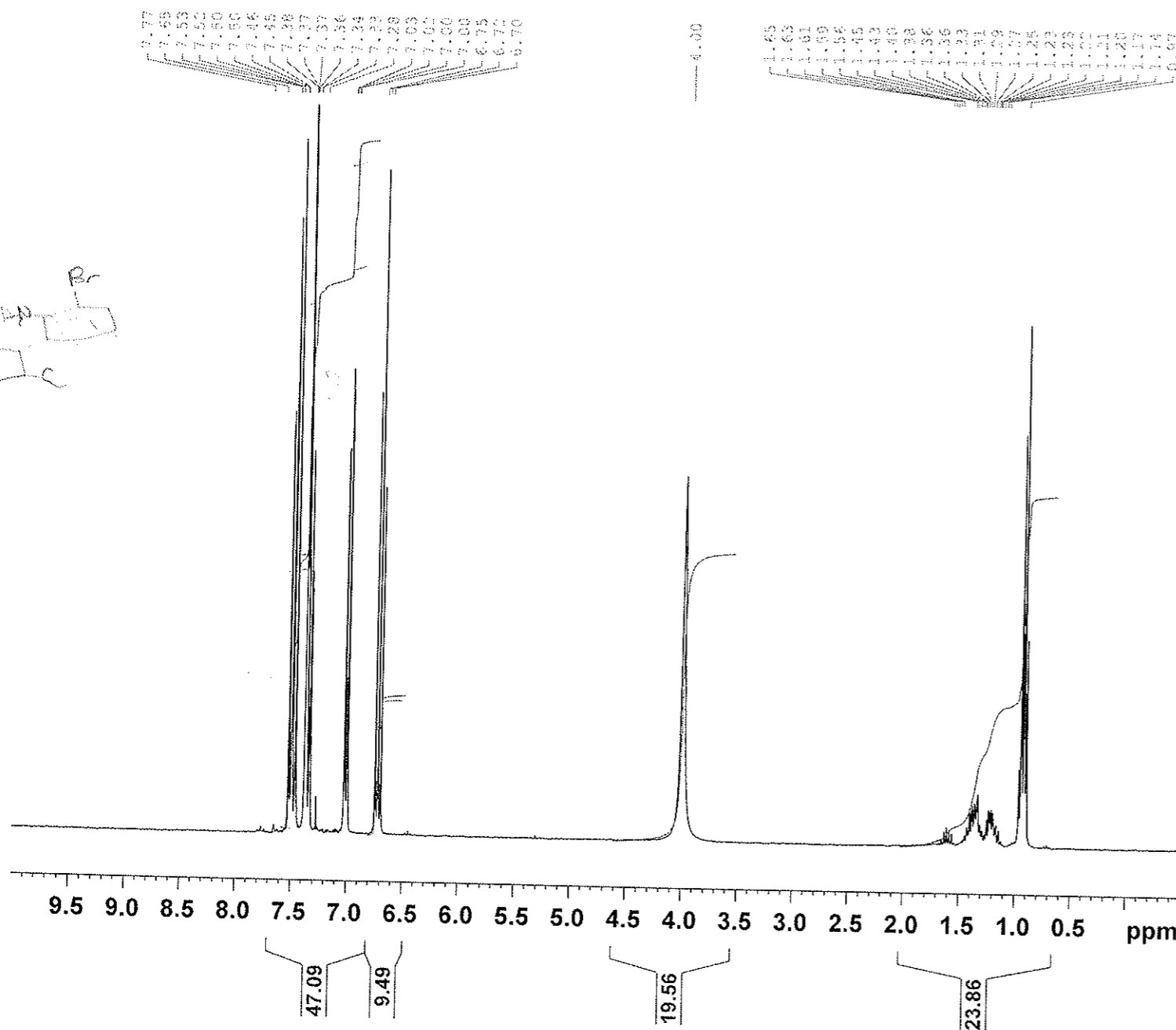
===== CHANNEL f1 =====  
NUC1 13C  
P1 7.20 usec  
PL1 1.00 dB  
SFO1 75.4752653 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 10.00 usec  
PL2 2.00 dB  
PL12 2.00 dB  
PL13 120.00 dB  
SFO2 300.1312005 MHz

F2 - Processing parameters  
SI 32768  
SF 75.4677190 MHz  
WDW EM  
SSB 0  
LB 1.50 Hz  
GB 0  
PC 1.40



sr63 mw e ac 41-43



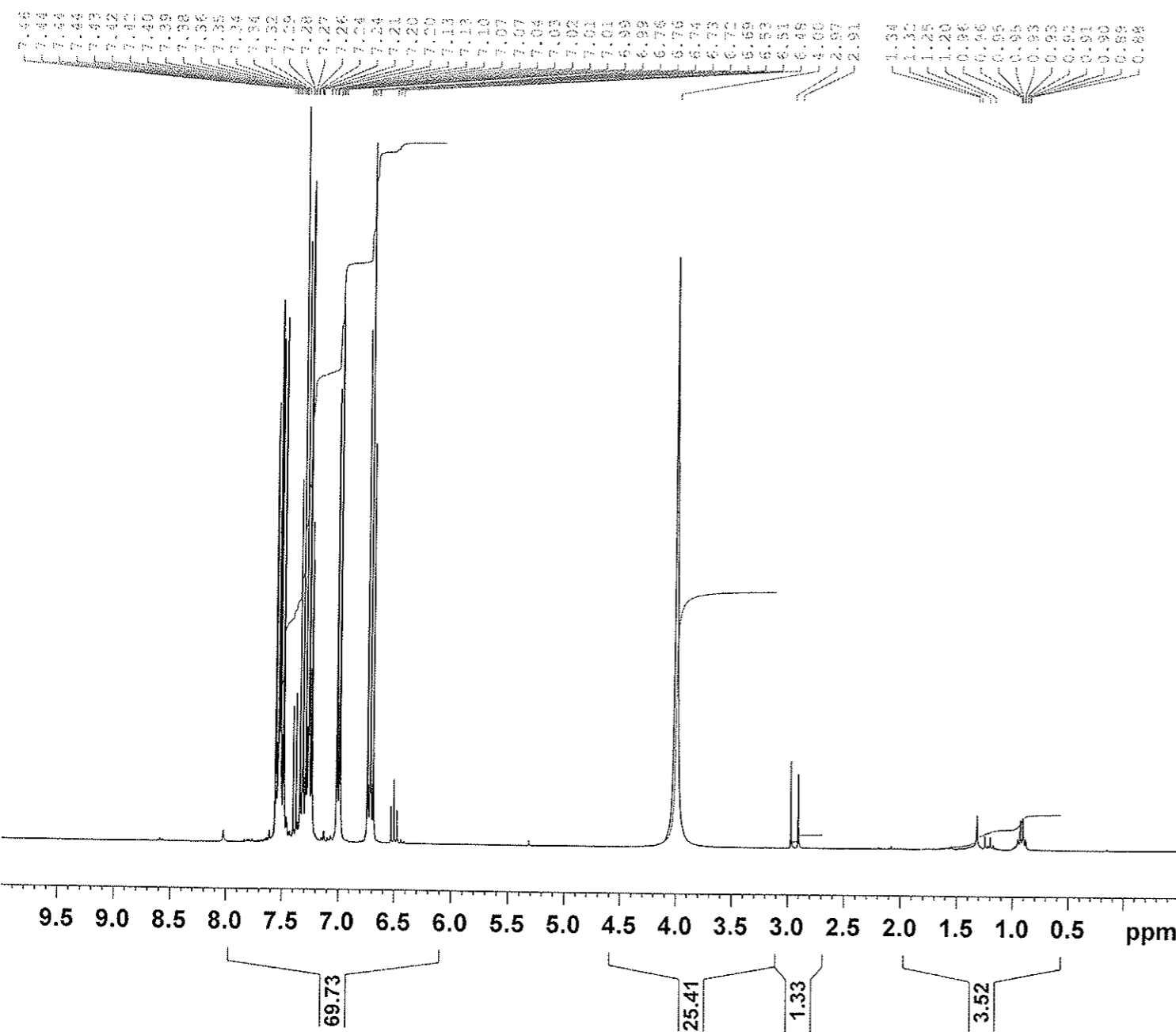
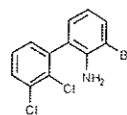
Current Data Parameters  
 NAME J19  
 EXPNO 1700  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20050818  
 Time\_ 15.58  
 INSTRUM spect  
 PROBHD 5 mm Multinucl  
 PULPROG zg30  
 TD 32768  
 SOLVENT CDCl3  
 NS 8  
 DS 0  
 SWH 6188.119 Hz  
 FIDRES 0.188846 Hz  
 AQ 2.6477852 sec  
 RG 50.8  
 DW 80.800 usec  
 DE 6.00 usec  
 TE 296.6 K  
 D1 1.00000000 sec  
 MCREST 0.00000000 sec  
 MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 10.00 usec  
 PL1 2.00 dB  
 SFO1 300.1318534 MHz

F2 - Processing parameters  
 SI 32768  
 SF 300.1300000 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 4.00

sr92b ac



Current Data Parameters  
NAME sr92b  
EXPNO 1  
PROCNO 1

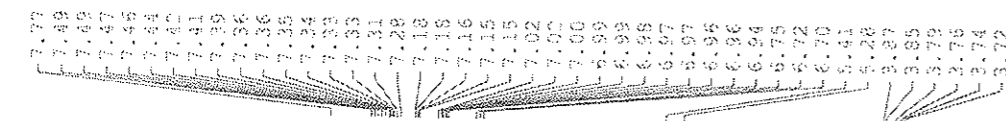
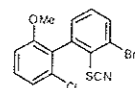
F2 - Acquisition Parameters  
Date\_ 20060130  
Time 18.03  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 80.6  
DW 80.800 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

3-Bromo-2'-chloro-6'-methoxy-2-thiocyanato-1,1'-biphenyl (12a)

sr99d ac



1.04  
0.94  
0.92



Current Data Parameters  
NAME sr99d  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20051219  
Time 12.34  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 35.9  
DW 80.800 usec  
DE 6.00 usec  
TE 292.9 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

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 0.5 ppm

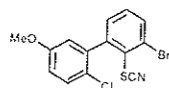
61.35

4.06

32.08

2.51

sr131b ac

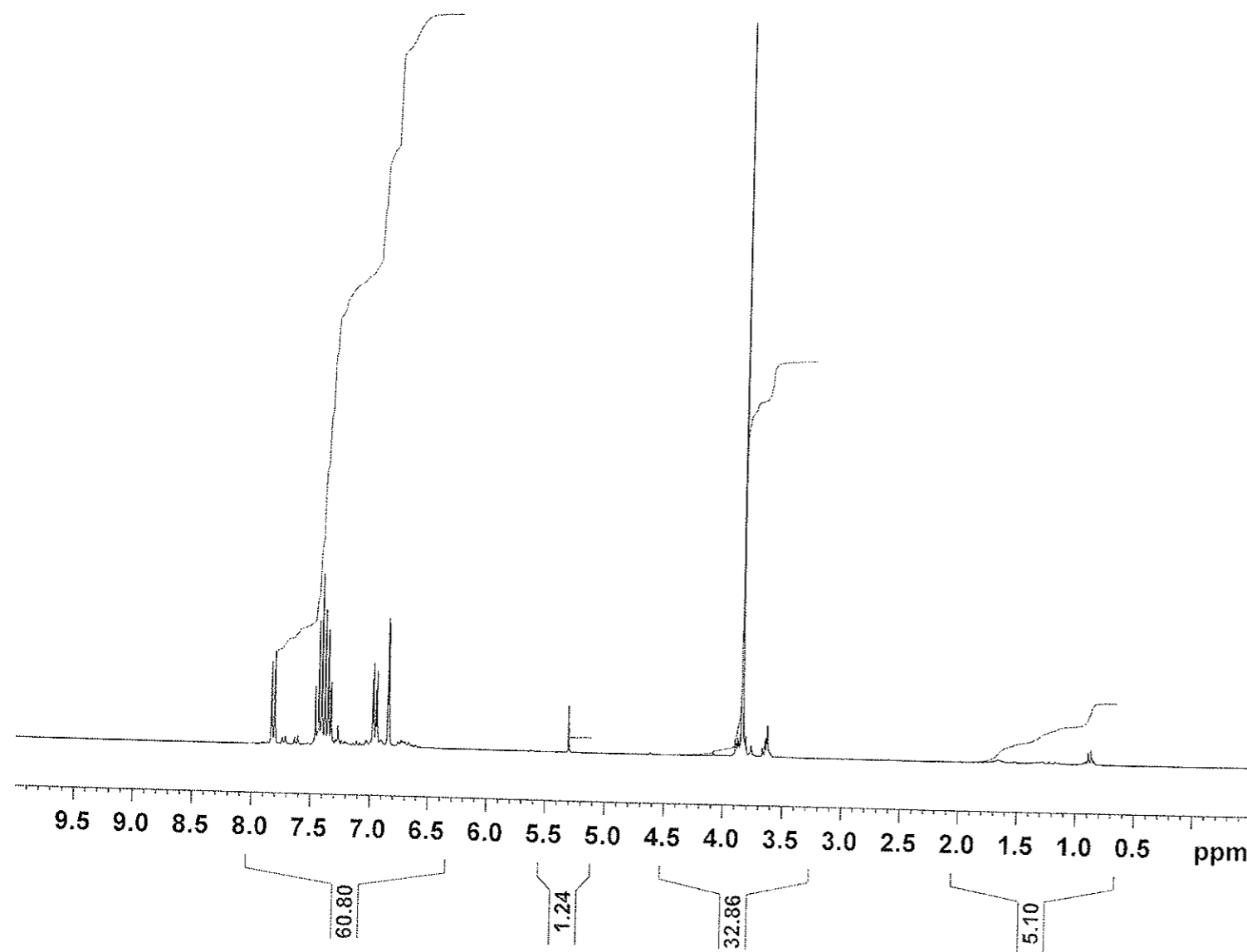


Current Data Parameters  
NAME sr131b  
EXPNO 1  
PROCNO 1

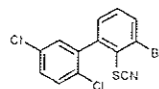
F2 - Acquisition Parameters  
Date\_ 20060531  
Time\_ 0.50  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 8  
DS 0  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 101.6  
DW 80.800 usec  
DE 6.00 usec  
TE 293.5 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00



SR84 RECRY

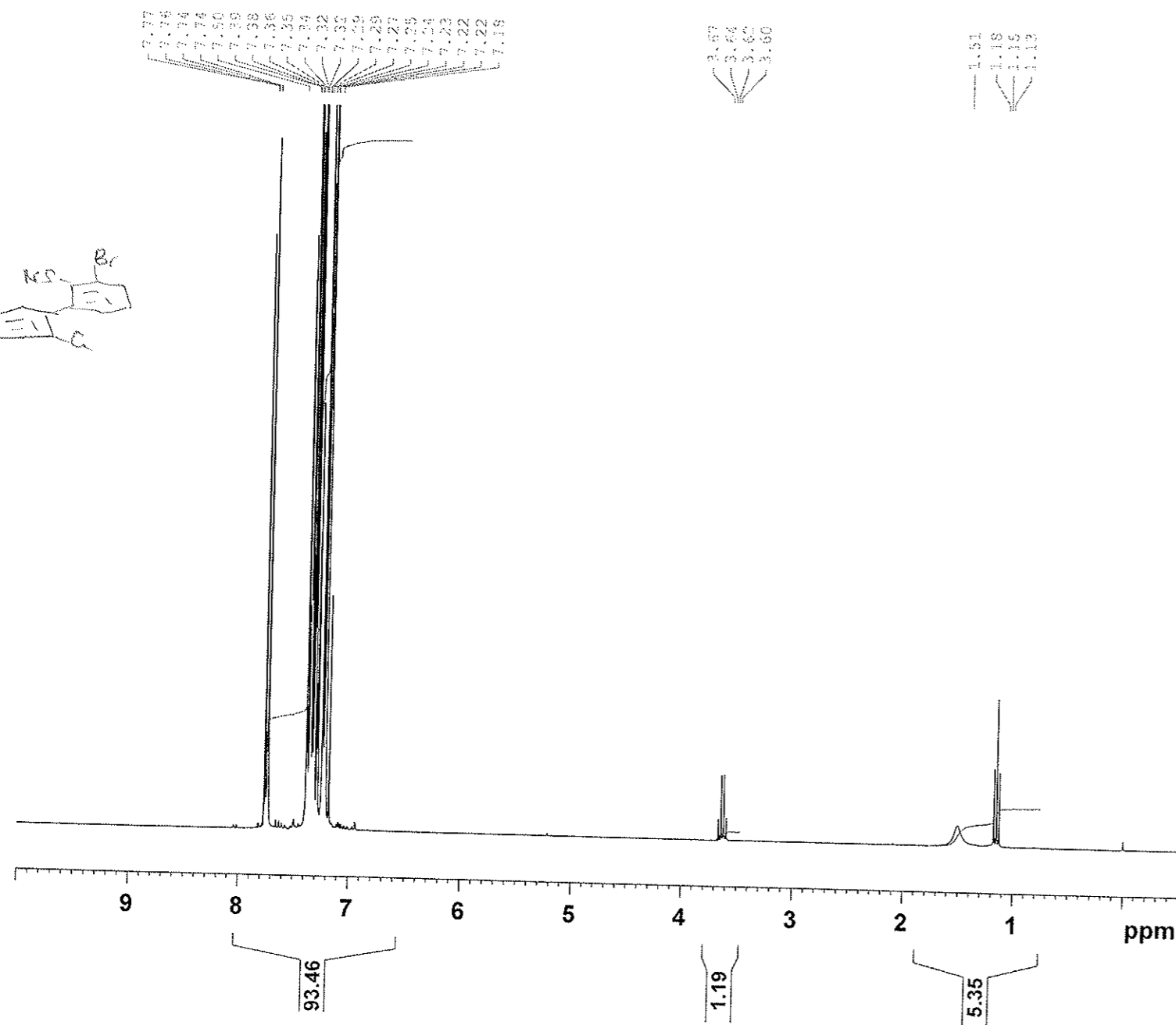


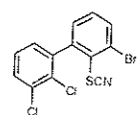
Current Data Parameters  
NAME J19  
EXPNO 1740  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20050830  
Time\_ 9.47  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 181  
DW 80.800 usec  
DE 6.00 usec  
TE 292.9 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

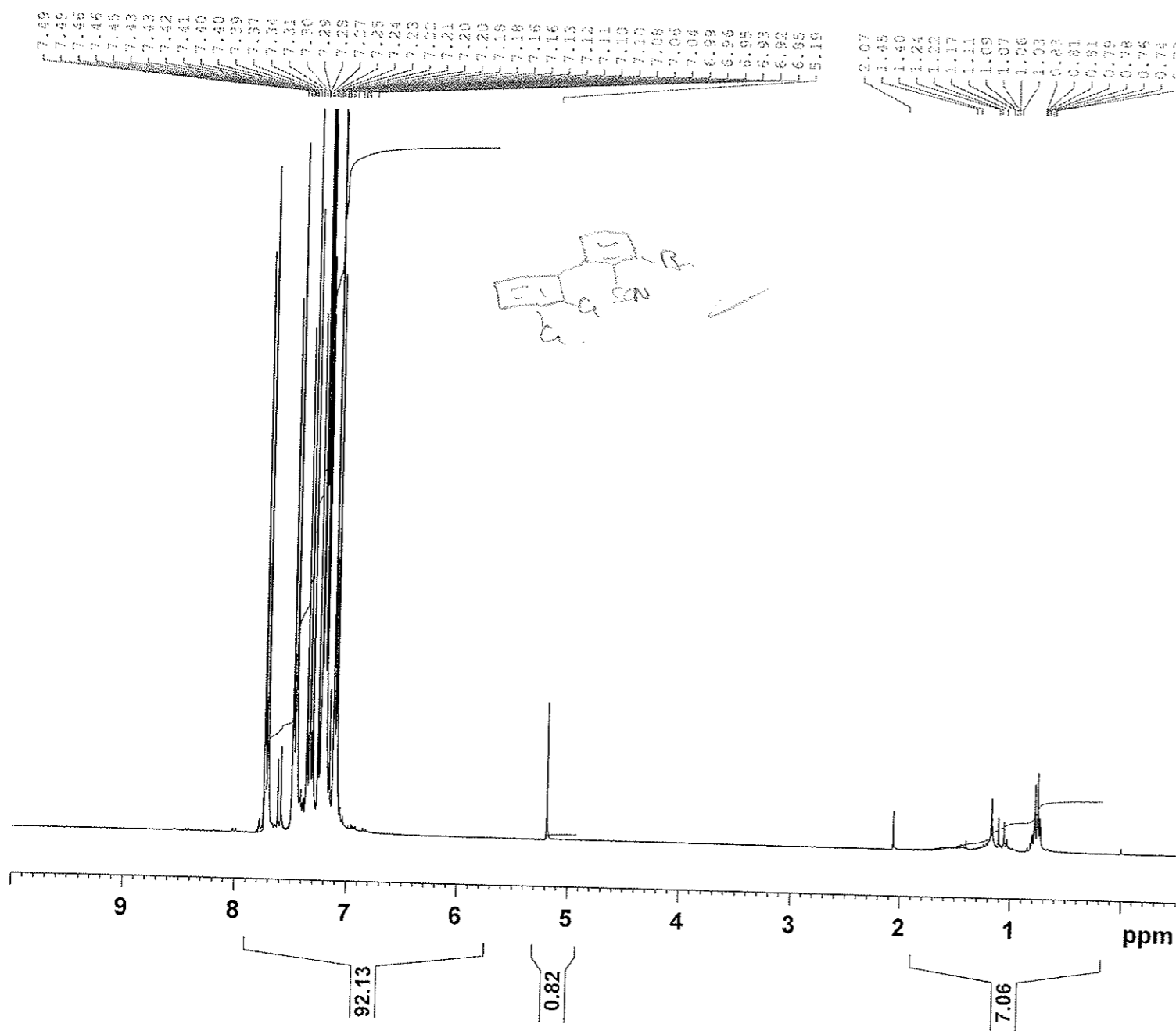
===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300290 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00





sr104b ac



Current Data Parameters  
NAME sr104b  
EXPNO 1  
PROCNO 1

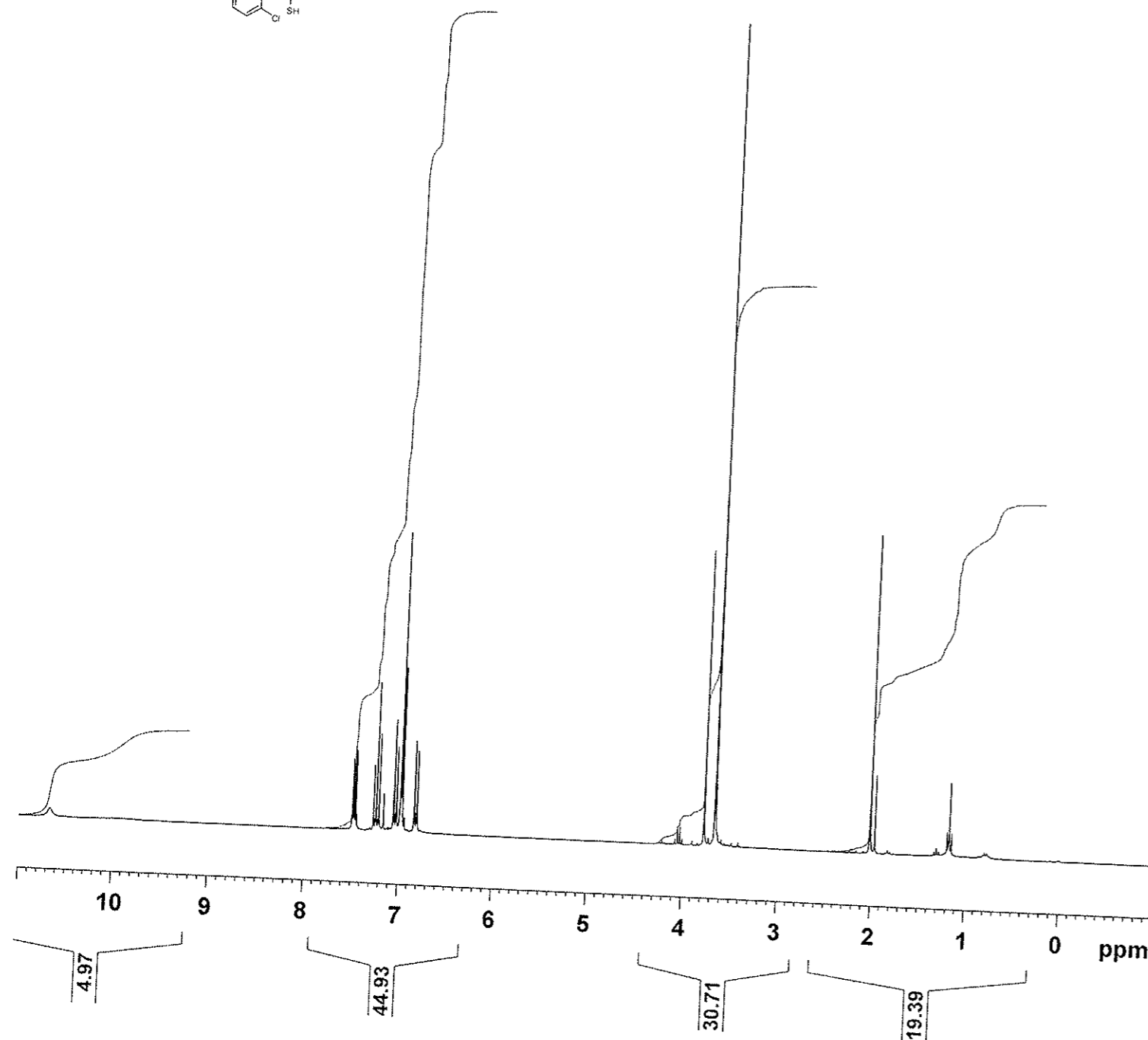
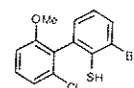
F2 - Acquisition Parameters  
Date\_ 20060202  
Time\_ 13.43  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT C6D6  
NS 8  
DS 0  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 114  
DW 80.800 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300471 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

3-Bromo-2'-chloro-6'-methoxy-[1,1'-biphenyl]-2-thiol (13a)

sr101b



Current Data Parameters  
NAME sr101b  
EXPNO 2  
PROCNO 1

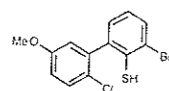
F2 - Acquisition Parameters  
Date\_ 20051129  
Time\_ 16.37  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.094423 Hz  
AQ 5.2954397 sec  
RG 101.6  
DW 80.800 usec  
DE 6.00 usec  
TE 291.3 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300355 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

3-Bromo-2'-chloro-5'-methoxy-[1,1'-biphenyl]-2-thiol (13b)

sr132a

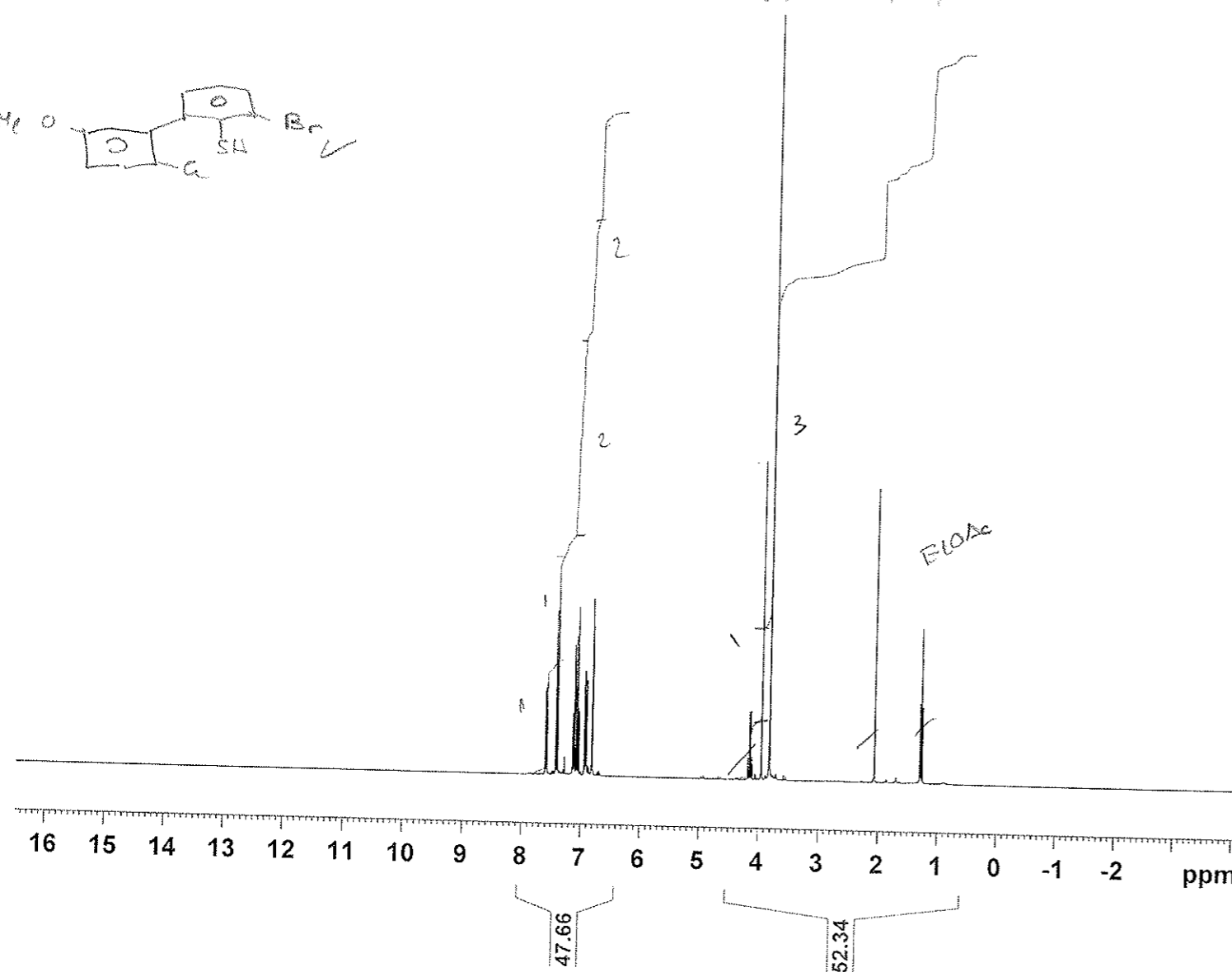


Current Data Parameters  
NAME sr132a  
EXPNO 3  
PROCNO 1

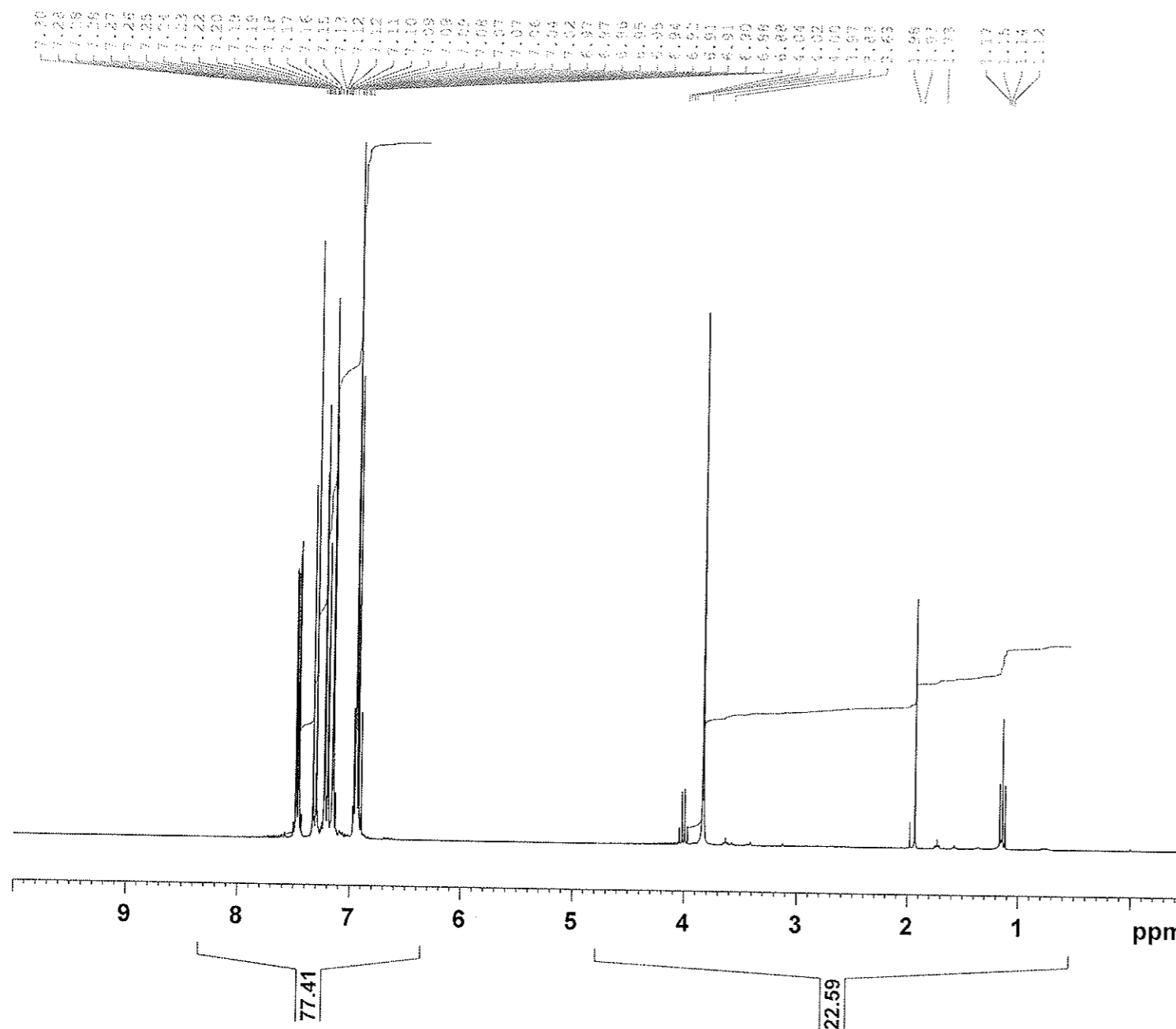
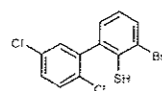
F2 - Acquisition Parameters  
Date\_ 20060511  
Time 17.00  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 8  
DS 0  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 80.6  
DW 80.800 usec  
DE 6.00 usec  
TE 295.1 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00



sr82e crude



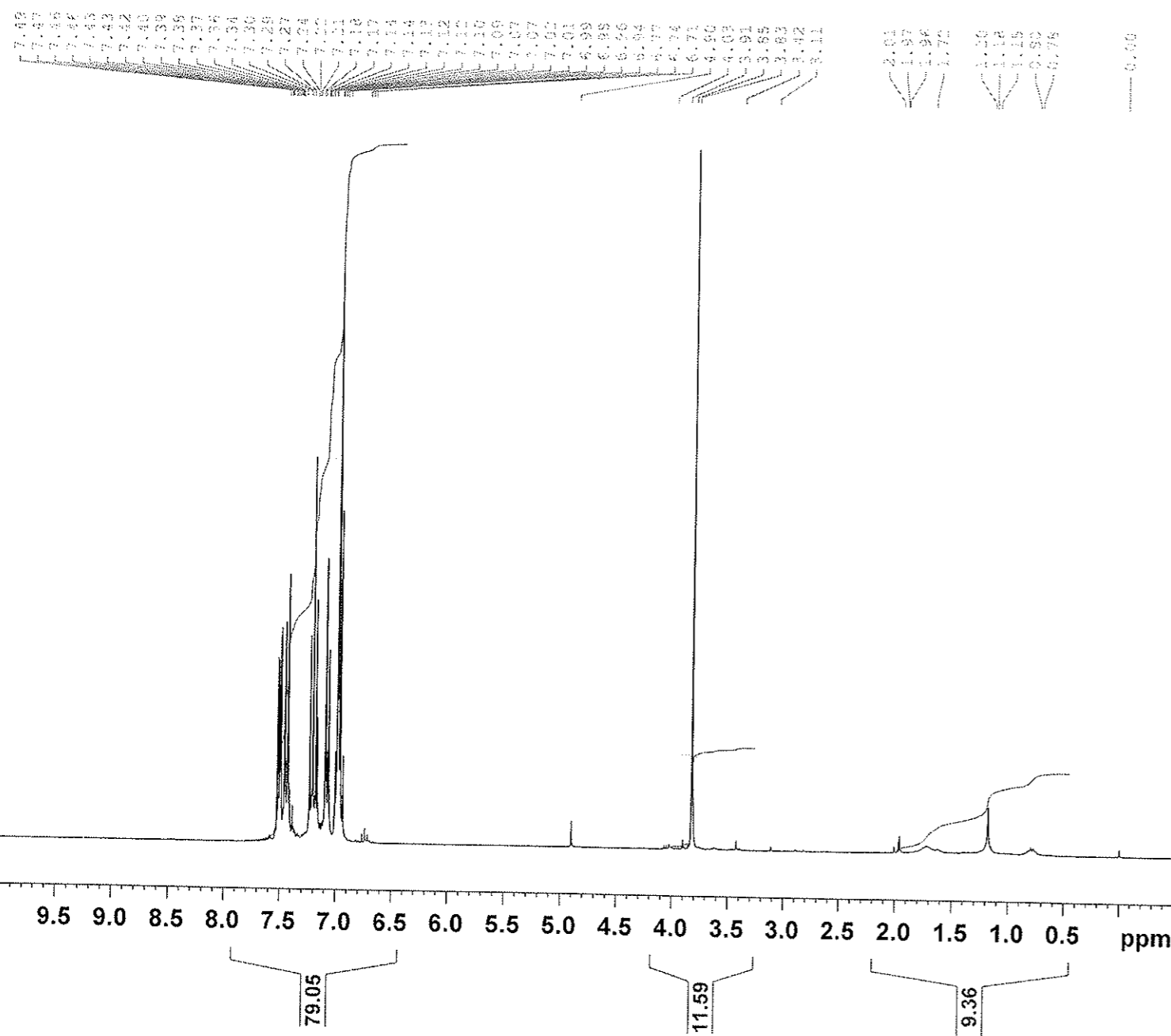
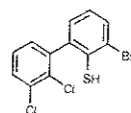
Current Data Parameters  
NAME sr82g  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20051003  
Time\_ 17.08  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 64  
DW 80.800 usec  
DE 6.00 usec  
TE 292.8 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300456 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

5  
 sr104b



Current Data Parameters  
 NAME sr104b  
 EXPNO 2  
 PROCNO 1

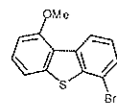
F2 - Acquisition Parameters  
 Date\_ 20060206  
 Time\_ 9.25  
 INSTRUM spect  
 PROBHD 5 mm Multinucl  
 PULPROG zg30  
 TD 32768  
 SOLVENT CDCl3  
 NS 8  
 DS 0  
 SWH 6188.119 Hz  
 FIDRES 0.188846 Hz  
 AQ 2.6477852 sec  
 RG 256  
 DW 80.800 usec  
 DE 6.00 usec  
 TE 300.0 K  
 D1 1.00000000 sec  
 MCREST 0.00000000 sec  
 MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 10.00 usec  
 PL1 2.00 dB  
 SFO1 300.1318534 MHz

F2 - Processing parameters  
 SI 32768  
 SF 300.1300335 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 4.00

sr102a ac 4-7

4-Bromo-1-methoxydibenzo[*b,d*]thiophene (2a)

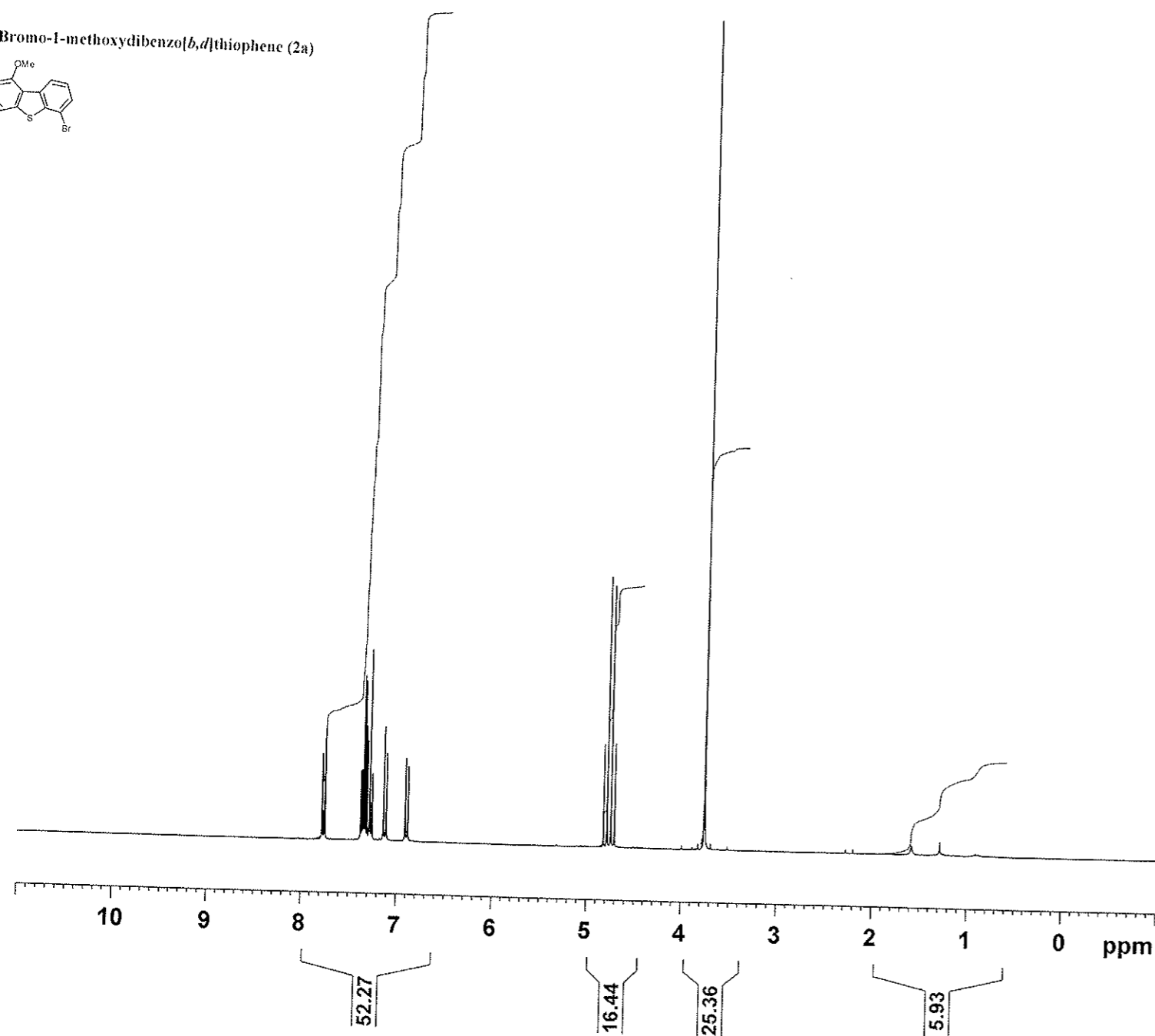


Current Data Parameters  
NAME sr102a  
EXPNO 3  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20051201  
Time 9.28  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.094423 Hz  
AQ 5.2954397 sec  
RG 181  
DW 80.800 usec  
DE 6.00 usec  
TE 292.3 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



sr102a ac 4-7

2a



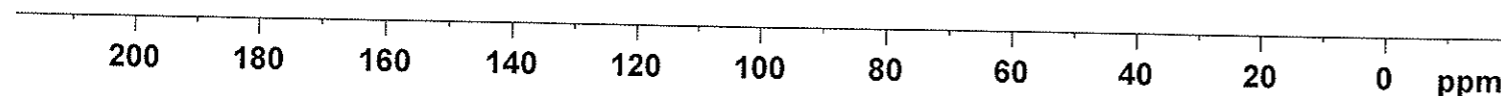
Current Data Parameters  
NAME sr102a  
EXPNO 5  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20051201  
Time 9.39  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zgpg30  
TD 35968  
SOLVENT CDCl3  
NS 128  
DS 4  
SWH 17985.611 Hz  
FIDRES 0.500045 Hz  
AQ 0.9999882 sec  
RG 4096  
DW 27.800 usec  
DE 6.00 usec  
TE 304.2 K  
D1 1.00000000 sec  
d11 0.03000000 sec  
DELTA 0.89999998 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 13C  
P1 7.20 usec  
PL1 1.00 dB  
SFO1 75.4752653 MHz

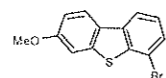
===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 10.00 usec  
PL2 2.00 dB  
PL12 2.00 dB  
PL13 120.00 dB  
SFO2 300.1312005 MHz

F2 - Processing parameters  
SI 32768  
SF 75.4677190 MHz  
WDW EM  
SSB 0  
LB 1.50 Hz  
GB 0  
PC 1.40



6-Bromo-3-methoxydibenzo[b,d]thiophene (2c)

srl42b

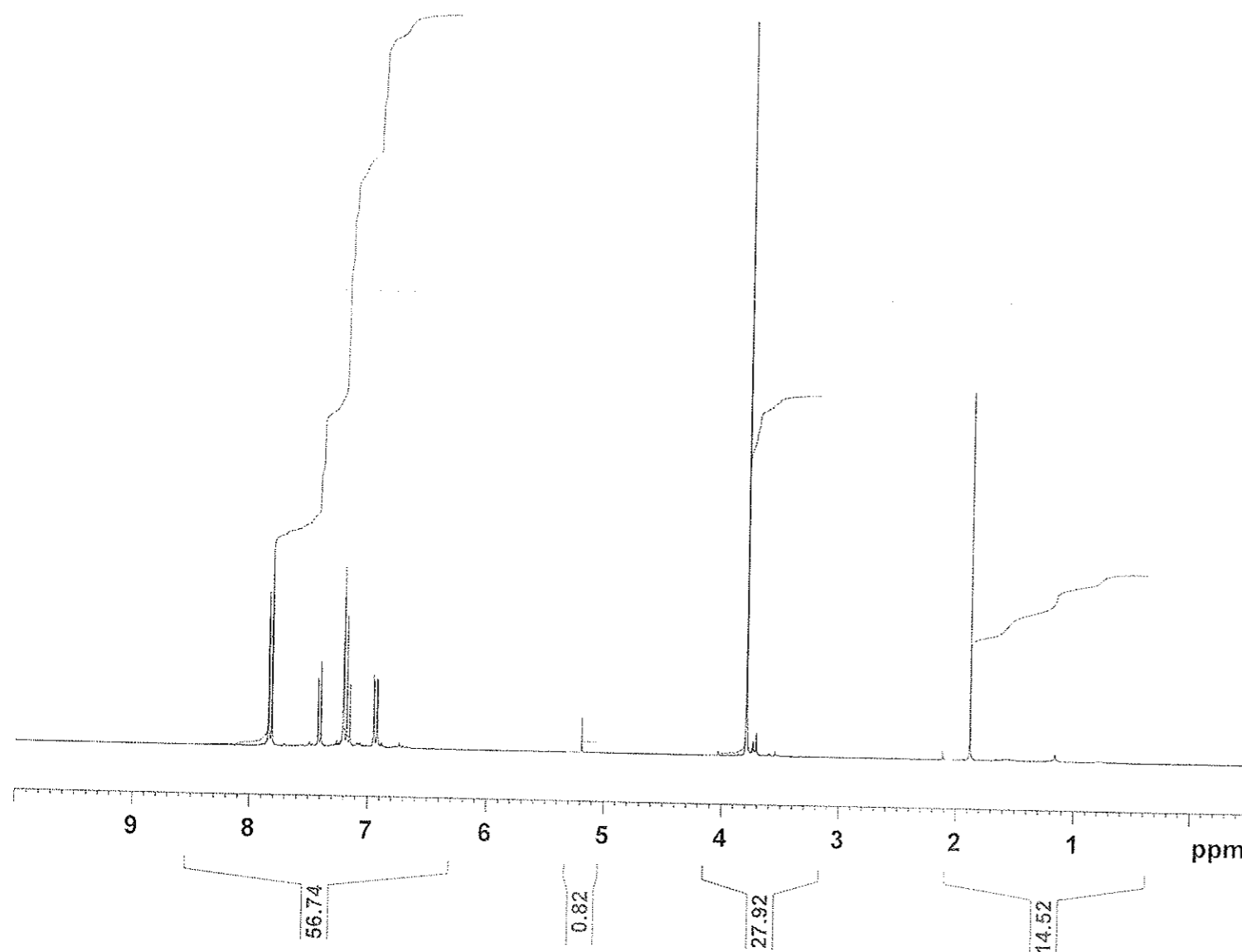


Current Data Parameters  
NAME srl42b  
EXPNO 1  
PROCNO 1

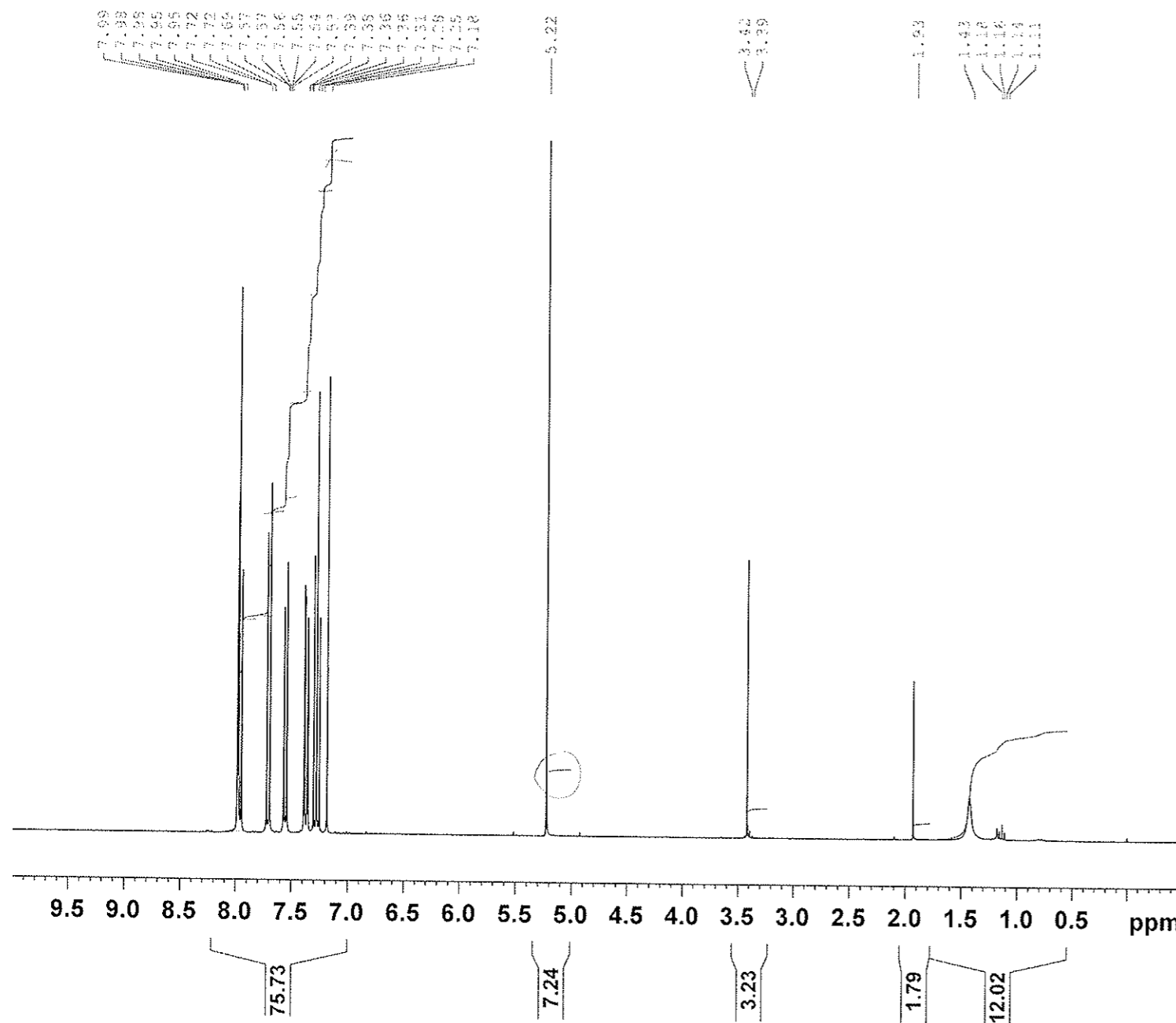
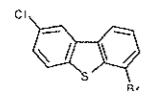
F2 - Acquisition Parameters  
Date\_ 20060608  
Time\_ 13.42  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDC13  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 161.3  
DW 80.800 usec  
DE 6.00 usec  
TE 294.7 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300382 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00



sr83h wp



Current Data Parameters  
NAME sr83H  
EXPNO 1  
PROCNO 1

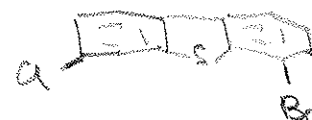
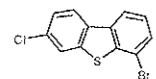
F2 - Acquisition Parameters  
Date\_ 20051012  
Time\_ 15.16  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDC13  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 456.1  
DW 80.800 usec  
DE 6.00 usec  
TE 295.9 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300291 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

6-Bromo-3-chlorodibenzo[b,d]thiophene (2e)

sr96a



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-1.99  
-2.00

1.50  
1.16  
0.00



Current Data Parameters  
 NAME sr96a  
 EXPNO 1  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20051115  
 Time 11.53  
 INSTRUM spect  
 PROBHD 5 mm Multinucl  
 PULPROG zg30  
 TD 32768  
 SOLVENT CDC13  
 NS 32  
 DS 2  
 SWH 6188.119 Hz  
 FIDRES 0.188846 Hz  
 AQ 2.6477852 sec  
 RG 256  
 DW 80.800 usec  
 DE 6.00 usec  
 TE 292.8 K  
 D1 1.00000000 sec  
 MCREST 0.00000000 sec  
 MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 10.00 usec  
 PL1 2.00 dB  
 SFO1 300.1318534 MHz

F2 - Processing parameters  
 SI 32768  
 SF 300.1300276 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 4.00

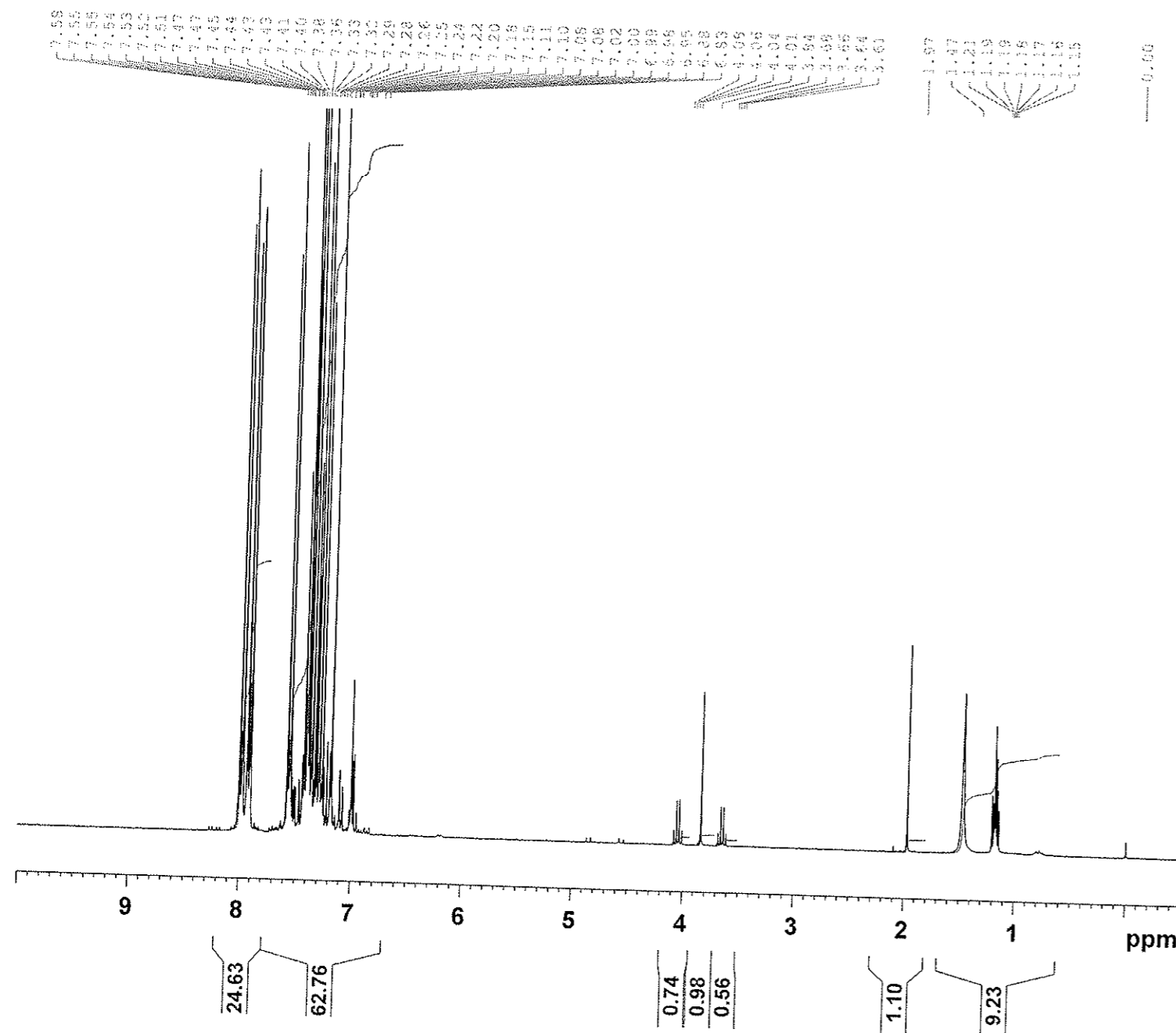
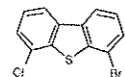
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 -1 -2 ppm

33.76  
44.71

19.28  
1.05  
1.19

sr106a ac + rcrcy

4-Bromo-6-chlorodibenzo[b,d]thiophene (2f)



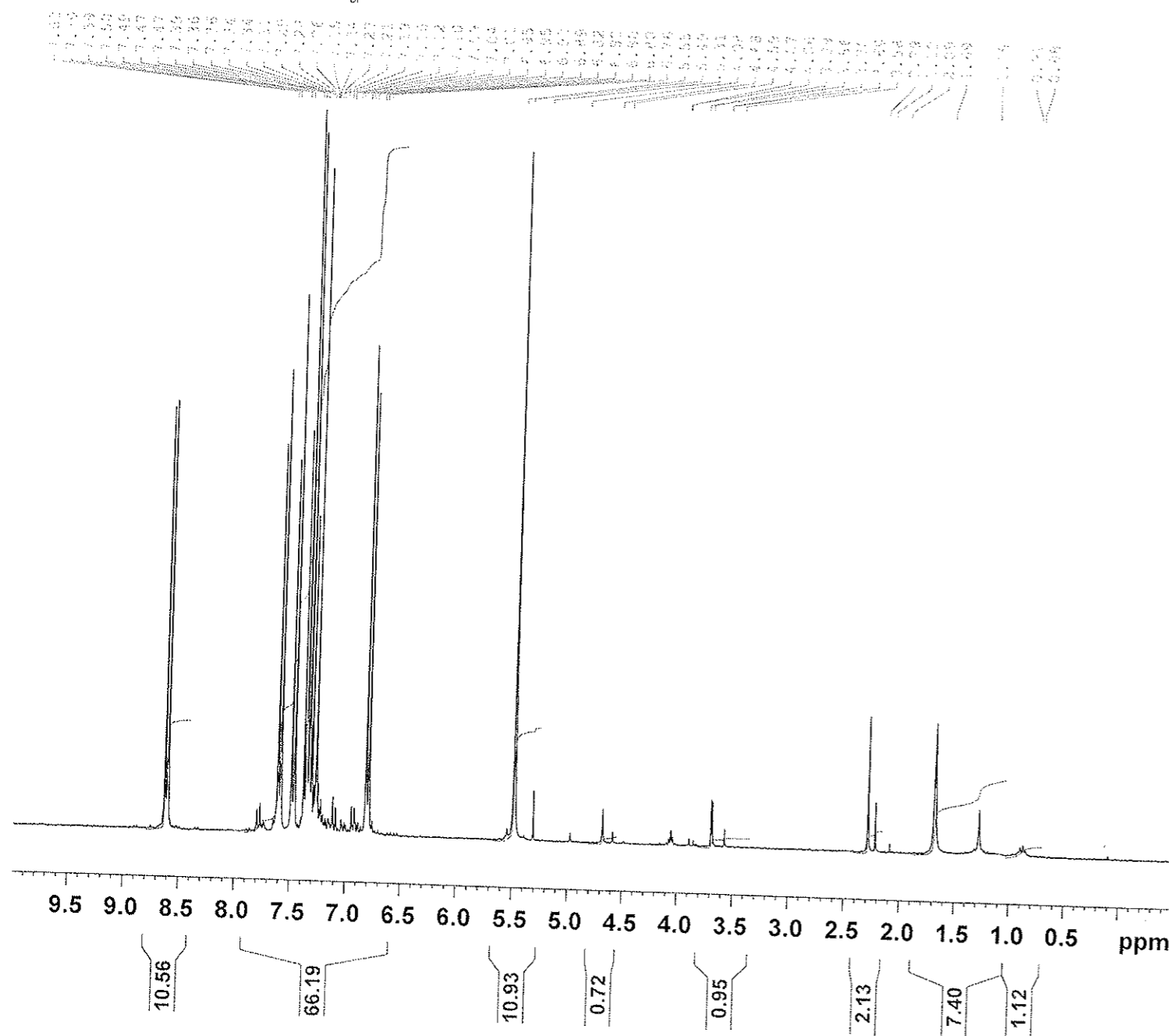
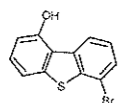
Current Data Parameters  
NAME sr106a  
EXPNO 6  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20051219  
Time\_ 9.44  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 406.4  
DW 80.800 usec  
DE 6.00 usec  
TE 292.3 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300293 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

sr109d ac



047-09-10

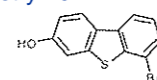
Current Data Parameters  
NAME sr109d  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20060302  
Time\_ 16.42  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 8  
DS 0  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 574.7  
DW 80.800 usec  
DE 6.00 usec  
TE 300.1 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

sr144b ac



6-Bromodibenzo[b,d]thiophen-3-ol (3c)

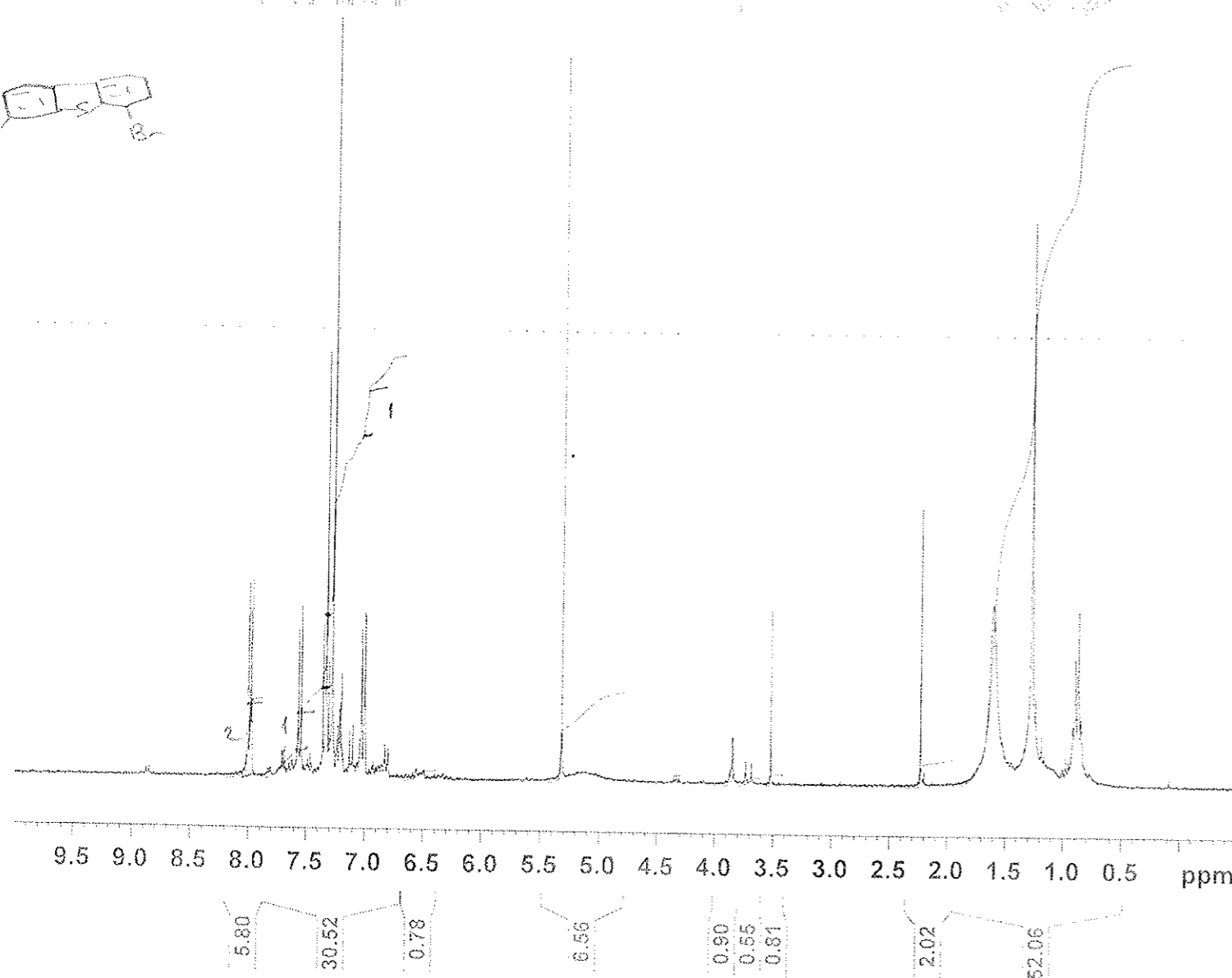


Current Data Parameters  
NAME sr144b  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date 20060612  
Time 17.20  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 32  
DS 2  
SWH 6186.119 Hz  
FIDRES 0.186846 Hz  
AQ 2.6477852 sec  
RG 456.1  
DW 80.800 usec  
DE 6.00 usec  
TE 295.3 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

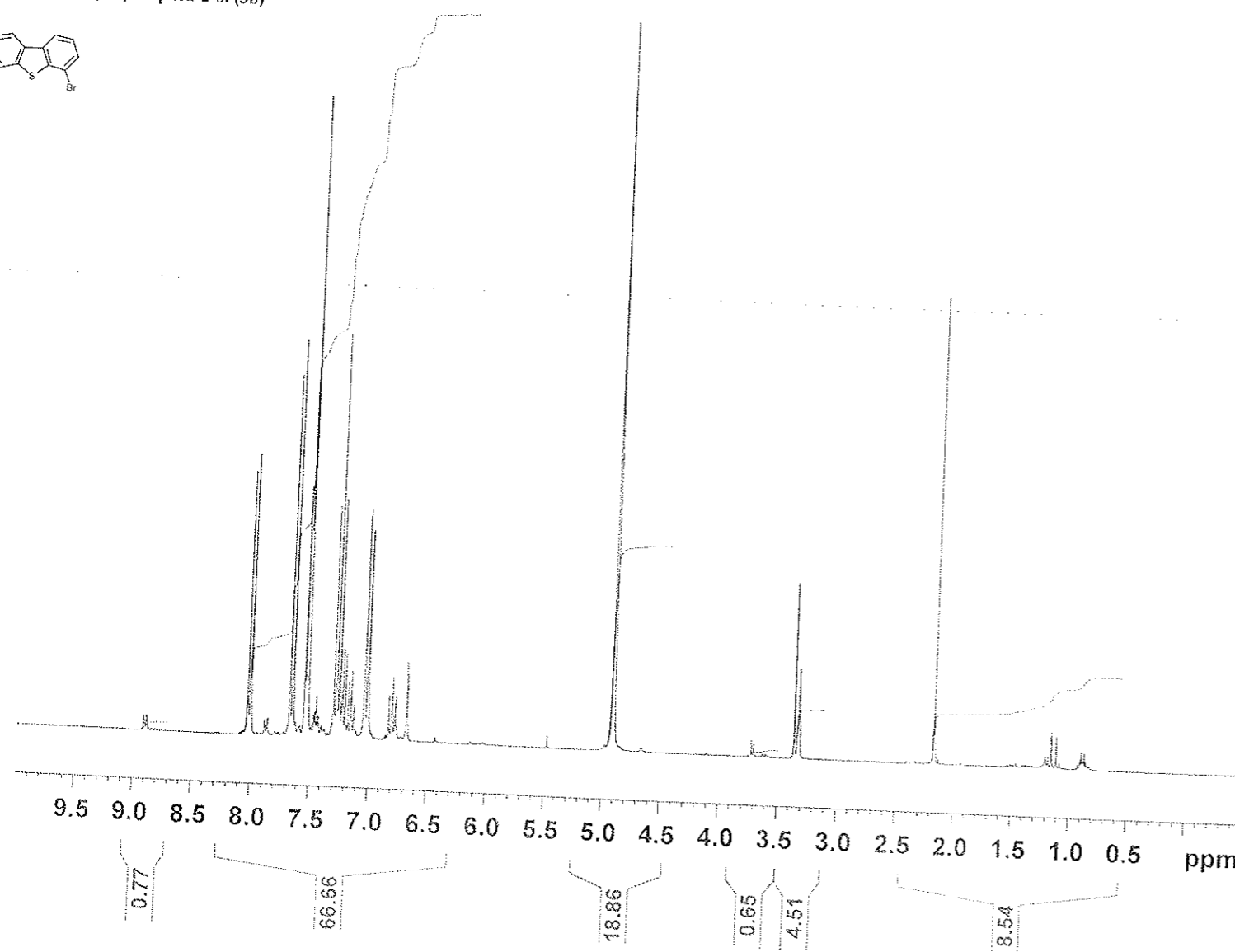
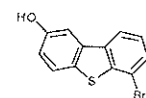
F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00



srl38?b ac



6-Bromo-dibenzo[b,d]thiophen-2-ol (3b)



Current Data Parameters  
NAME srl38b  
EXPNO 1  
PROCNO 1

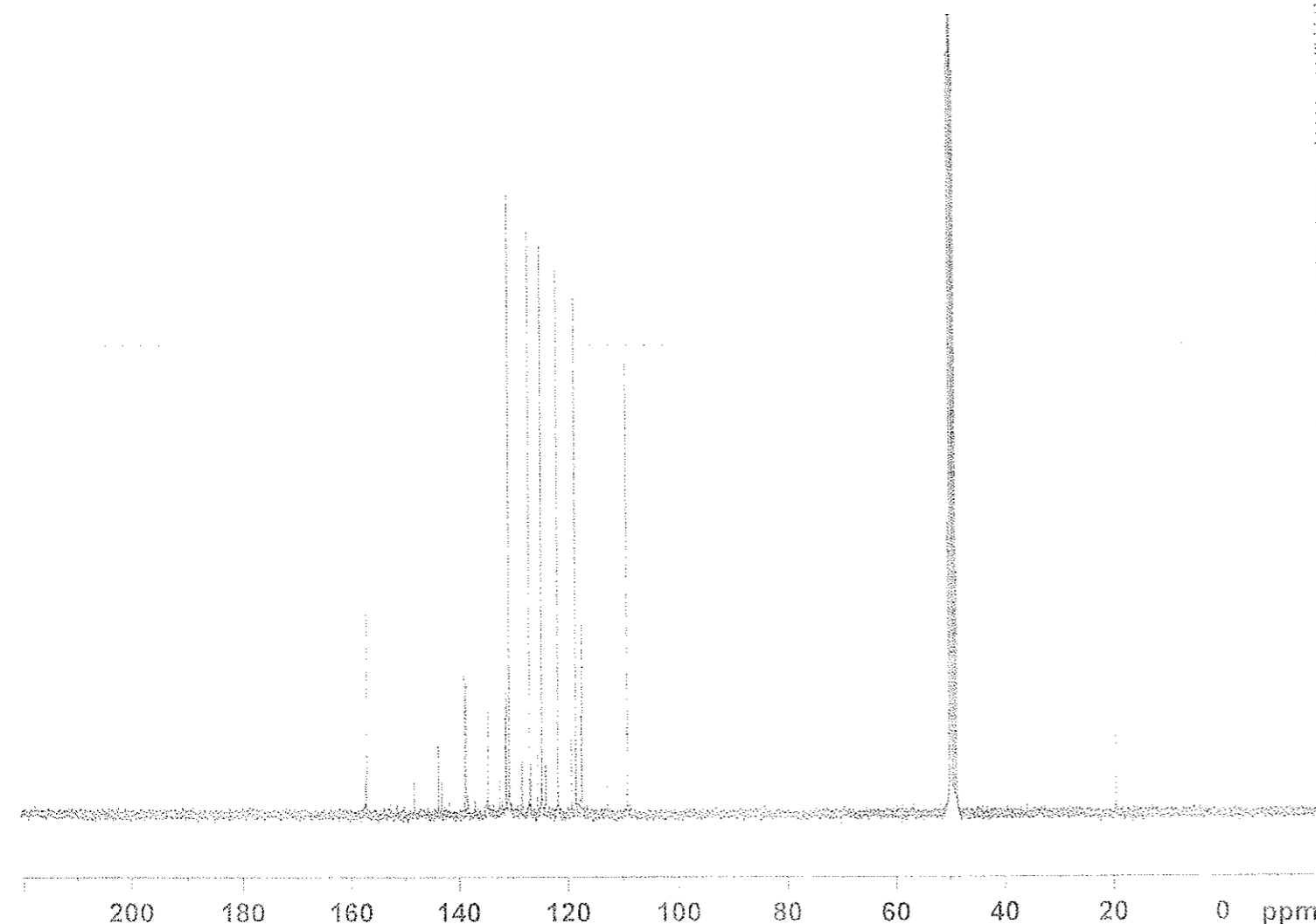
F2 - Acquisition Parameters  
Date\_ 20060609  
Time 17.13  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT MeOD  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.168846 Hz  
AQ 2.6477852 sec  
RG 228.1  
DW 80.800 usec  
DE 6.00 usec  
TE 295.1 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00

sr138? ac

3b.



Current Data Parameters  
NAME sr138p  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20060612  
Time 0.49  
INSTRUM spect  
PROBHD 5 mm Multinuc1  
PULPROG zgpg30  
TD 35868  
SOLVENT MeOD  
NS 3600  
DS 4  
SWH 17983.611 Hz  
FIDRES 0.500045 Hz  
AQ 0.9999887 sec  
RG 3281  
DM 27.800 usec  
DE 8.00 usec  
TE 311.3 K  
D1 1.00000000 sec  
d11 0.03000000 sec  
DELTA 0.89999998 sec  
DCREST 0.00000000 sec  
MCWRF 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 13C  
PL 7.20 usec  
PL1 1.00 dB  
SFO1 75.4752613 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD0 10.00 usec  
PL2 2.00 dB  
PL12 2.00 dB  
PL13 100.00 dB  
SFO2 300.1312003 MHz

F2 - Processing parameters  
SI 32768  
SF 75.4676118 MHz  
WDW EM  
SFB 0  
LB 1.30 Hz  
GB 0  
PC 1.10

sr112e 2 ac

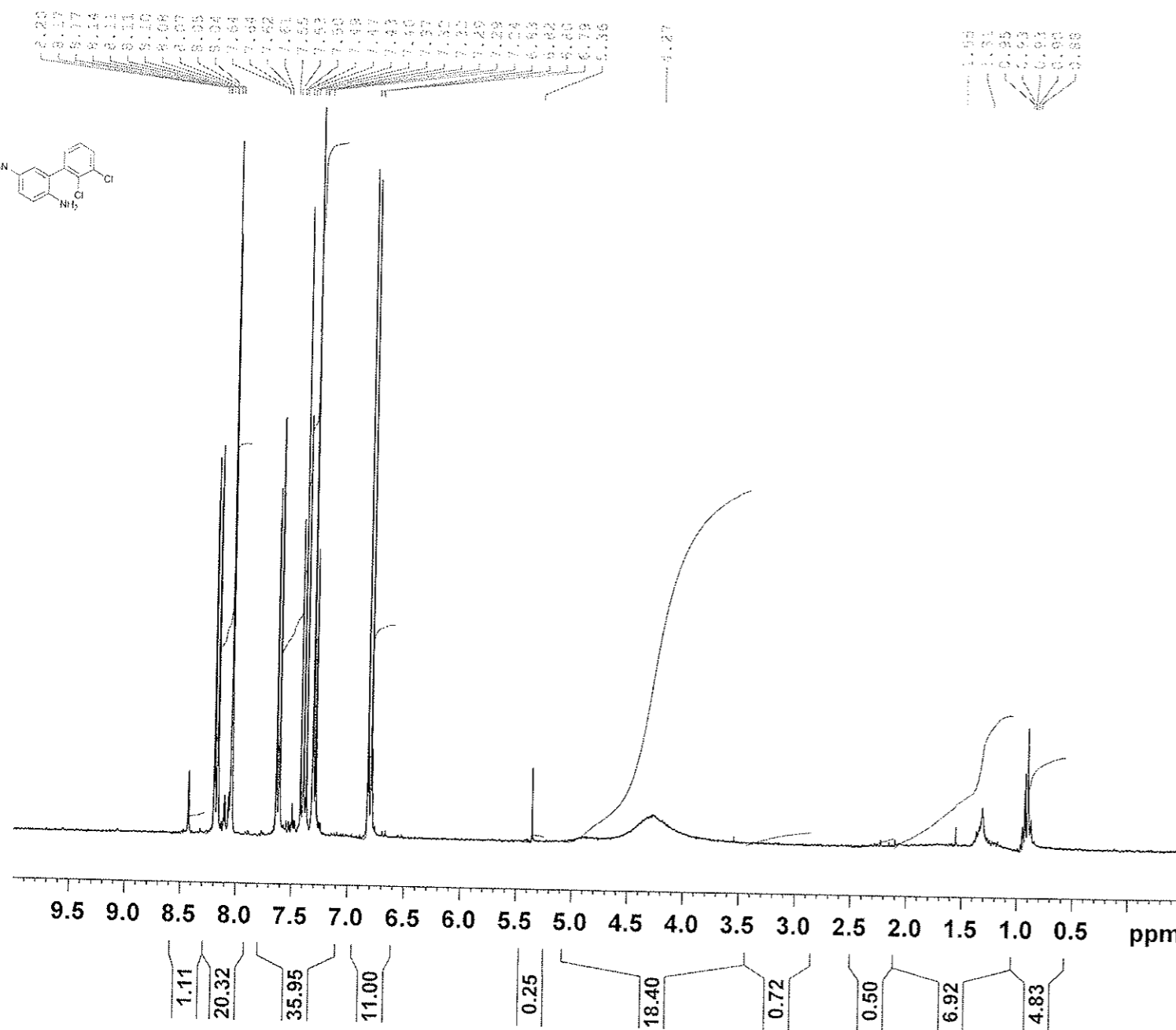
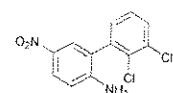


Current Data Parameters  
NAME sr112e  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20060405  
Time\_ 16.14  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT C6D6  
NS 8  
DS 0  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 228.1  
DW 80.800 usec  
DE 6.00 usec  
TE 291.7 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00



sr113d 2f ac

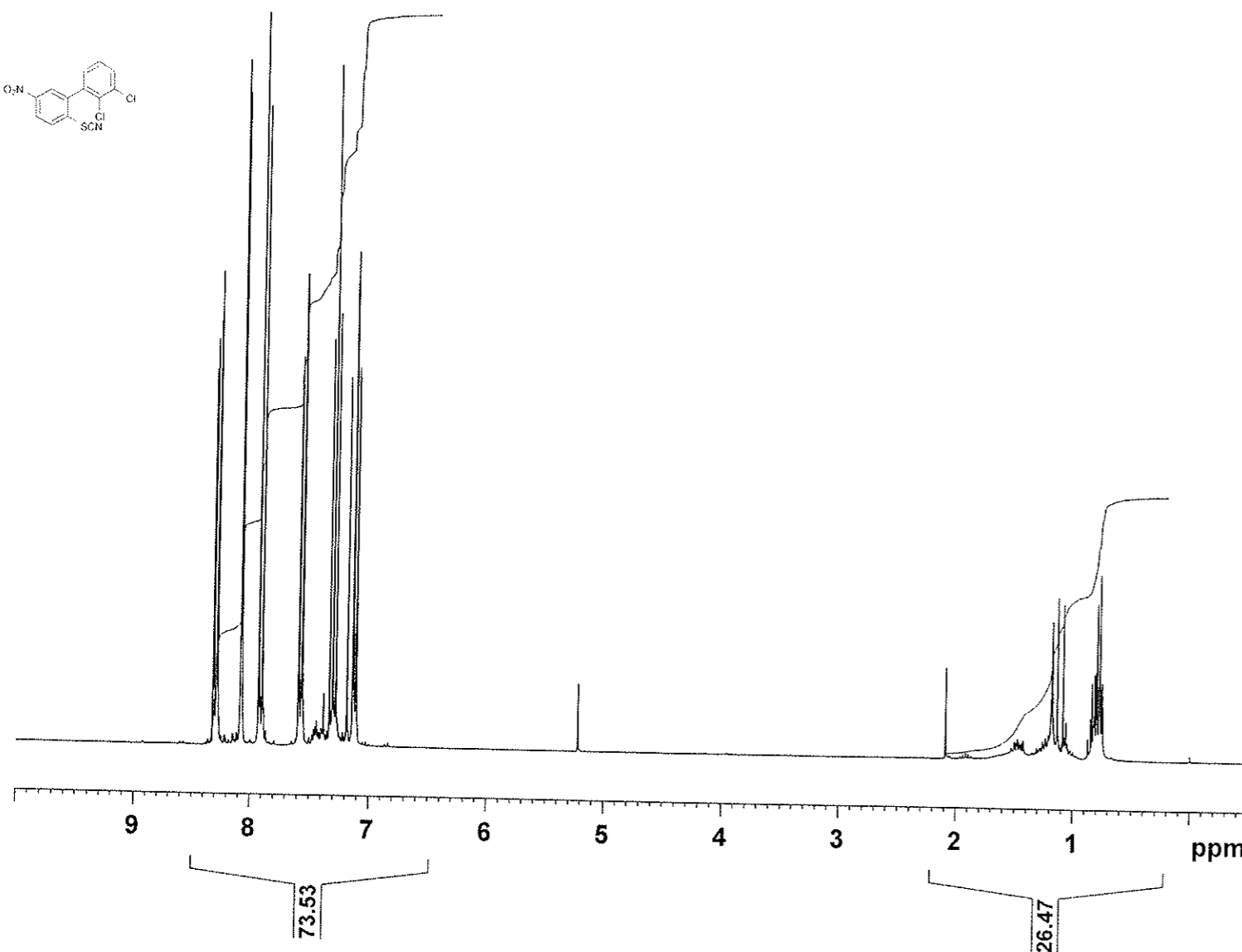
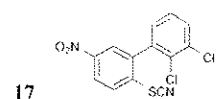


Current Data Parameters  
NAME sr113d  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20060203  
Time 9.26  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 362  
DW 80.800 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300280 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00



sr115b

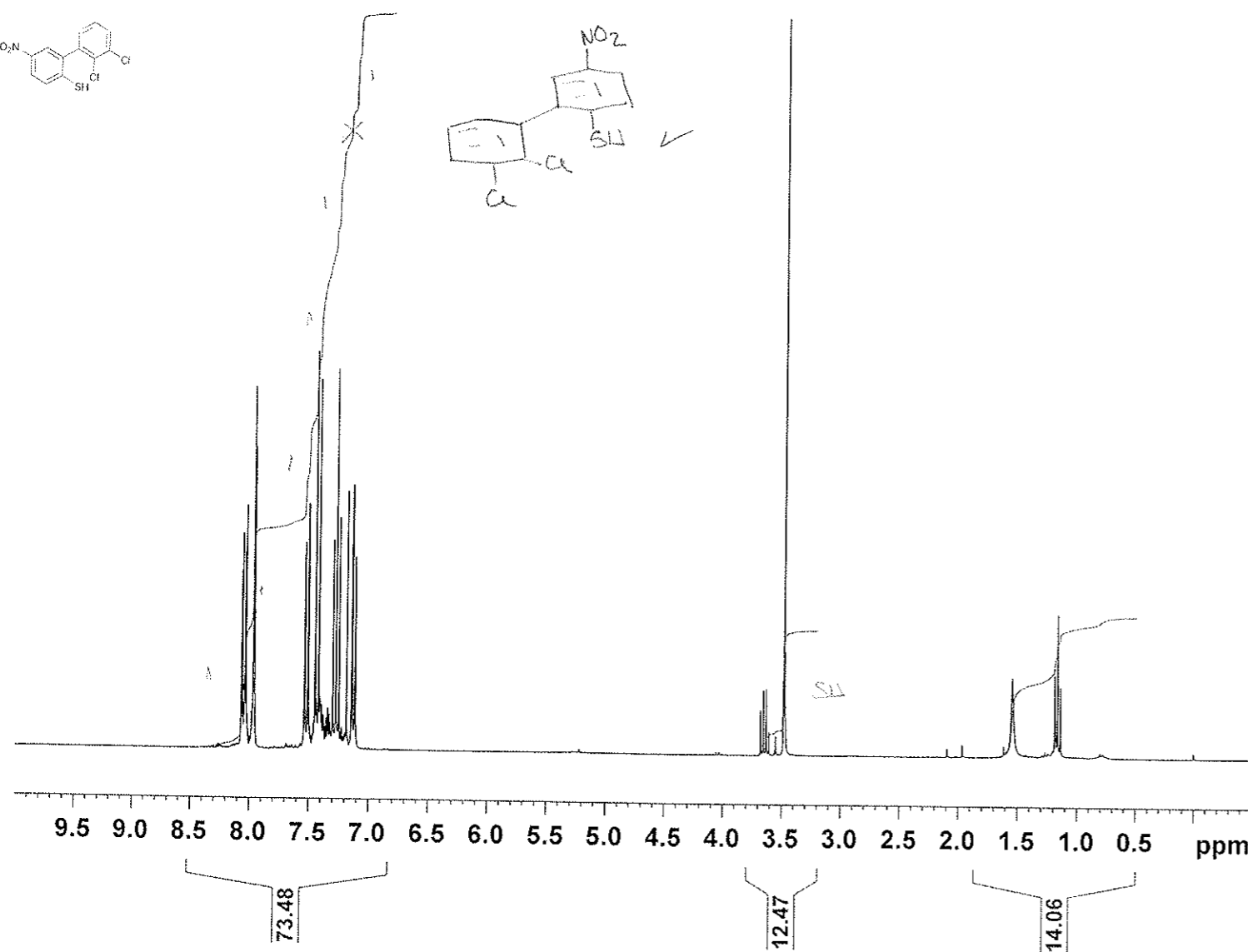
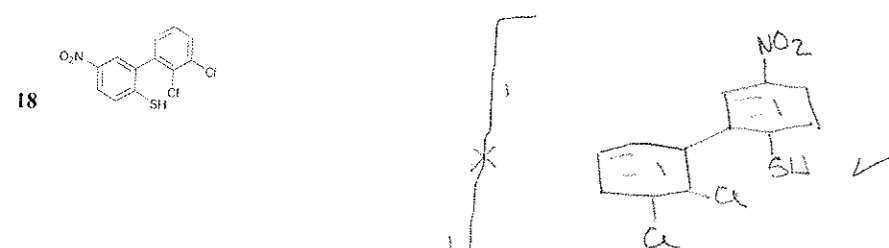


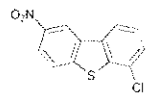
Current Data Parameters  
NAME sr115b  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20060220  
Time\_ 15.36  
INSTRUM spect  
PROBHD 5 mm Multinucl  
PULPROG zg30  
TD 32768  
SOLVENT CDC13  
NS 32  
DS 2  
SWH 6188.119 Hz  
FIDRES 0.188846 Hz  
AQ 2.6477852 sec  
RG 322.5  
DW 80.800 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

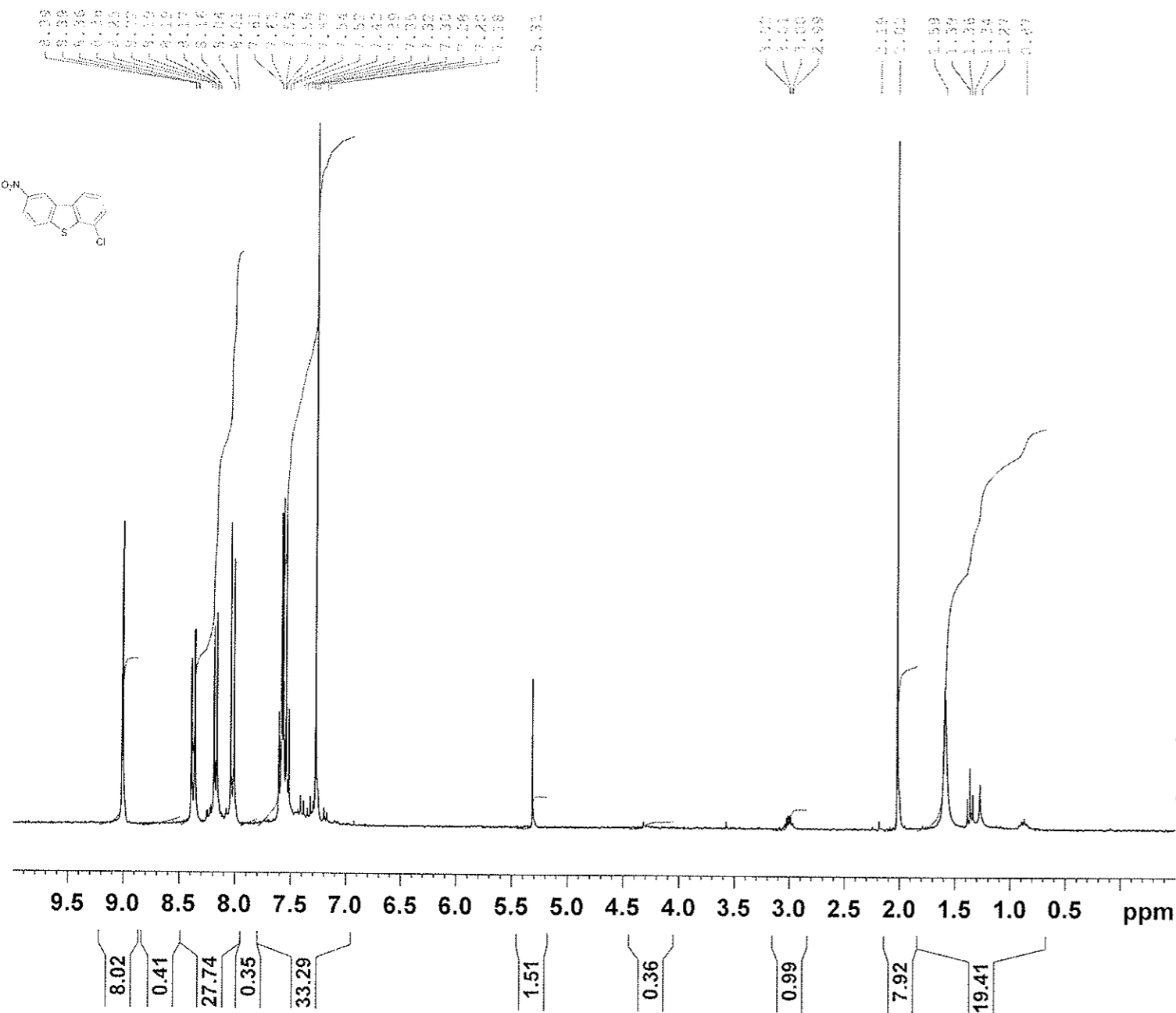
===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300283 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00





4



```
Current Data Parameters
NAME                sr121b
EXPNO                1
PROCNO              1
```

```

F2 - Acquisition Parameters
Date_                20060309
Time_                9.46
INSTRUM              spect
PROBHD               5 mm Multinucl
PULPROG              zg30
TD                   32768
SOLVENT              CDC13
NS                    8
DS                    0
SWH                  6188.119 Hz
FIDRES               0.188846 Hz
AQ                   2.6477852 sec
RG                   645.1
DW                   80.800 usec
DE                   6.00 usec
TE                   300.0 K
D1                   1.00000000 sec
MCREST               0.00000000 sec
MCWRK               0.01500000 sec

```

```

      CHANNEL f1
NUC1          1H
Pl            10.00 usec
PL1           2.00 dB
SFO1          300.1318534 MHz

```

```
F2 - Processing parameters
SI                      32768
SF                      300.1300000 MHz
WDW                      EM
SSB                      0
LB                      0.30 Hz
GB                      0
PC                      4.00
```