Pyridines from azabicyclo[3.2.0]hept-2-en-4-ones through a proposed azacyclopentadienone

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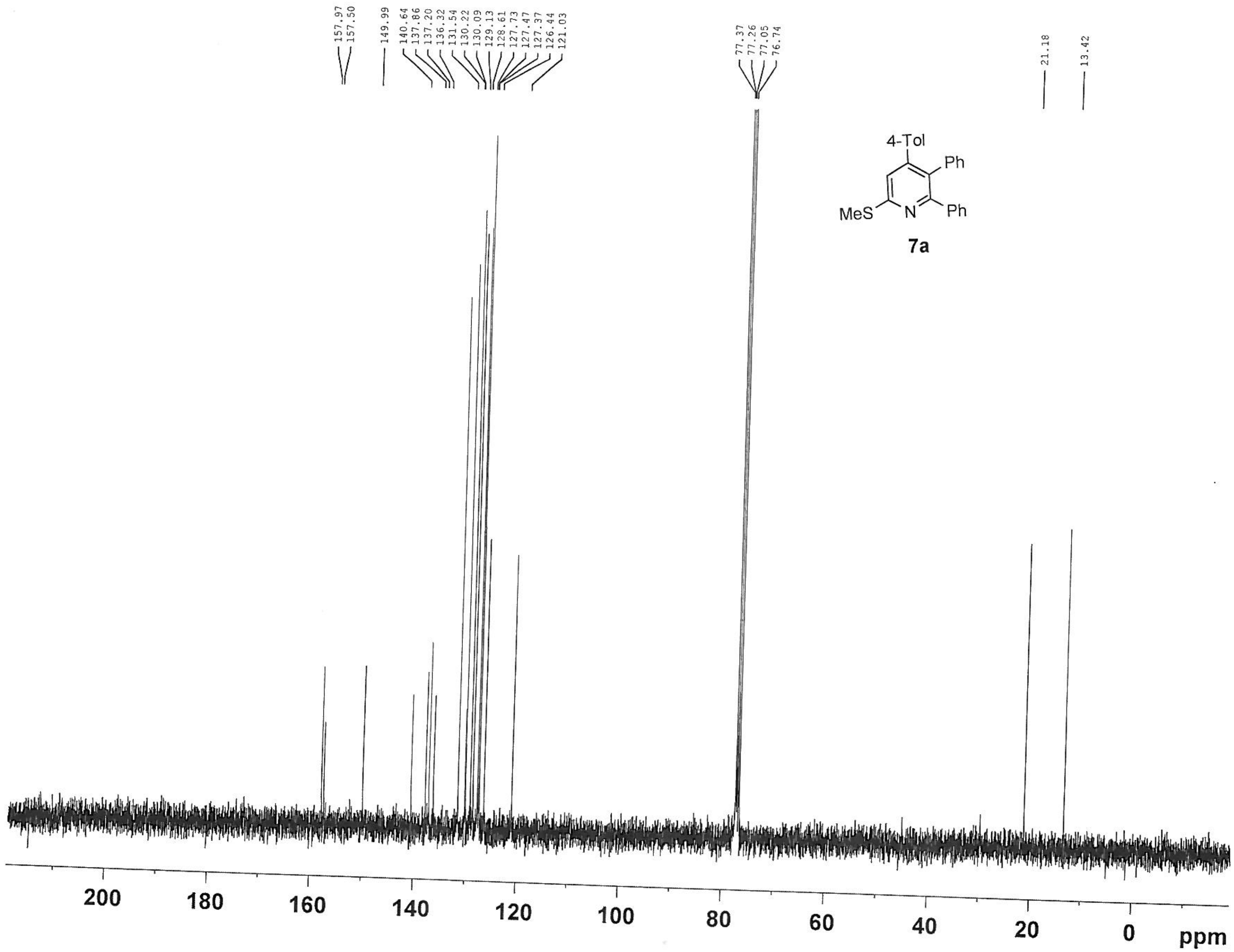
SUPPLEMENTARY INFORMATION: Part 2

- ^{1}H and ^{13}C NMR spectra for pyridines **7a** – **7g** (pages 2 – 15)
- ^{1}H and ^{13}C NMR spectra for azabicyclo[3.2.0]hept-2-en-4-ones **4a** – **7g** (pages 16 – 29)
- ^{1}H and ^{13}C NMR spectra for all 1-azetines (**5a**, **5b**, **5c**, **5e**, **5f**) (pages 30 – 39)
- ^{1}H and ^{13}C NMR spectra for di-*n*-butylcyclopropenone and phenylcyclopropenone (pages 40 – 43)
- ^{1}H and ^{13}C NMR spectra for compounds **13** and **14** (pages 44 – 47).



7a

2

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Current Data Parameters
NAME              mk 16 G
EXPNO                   2
PROCNO                  1

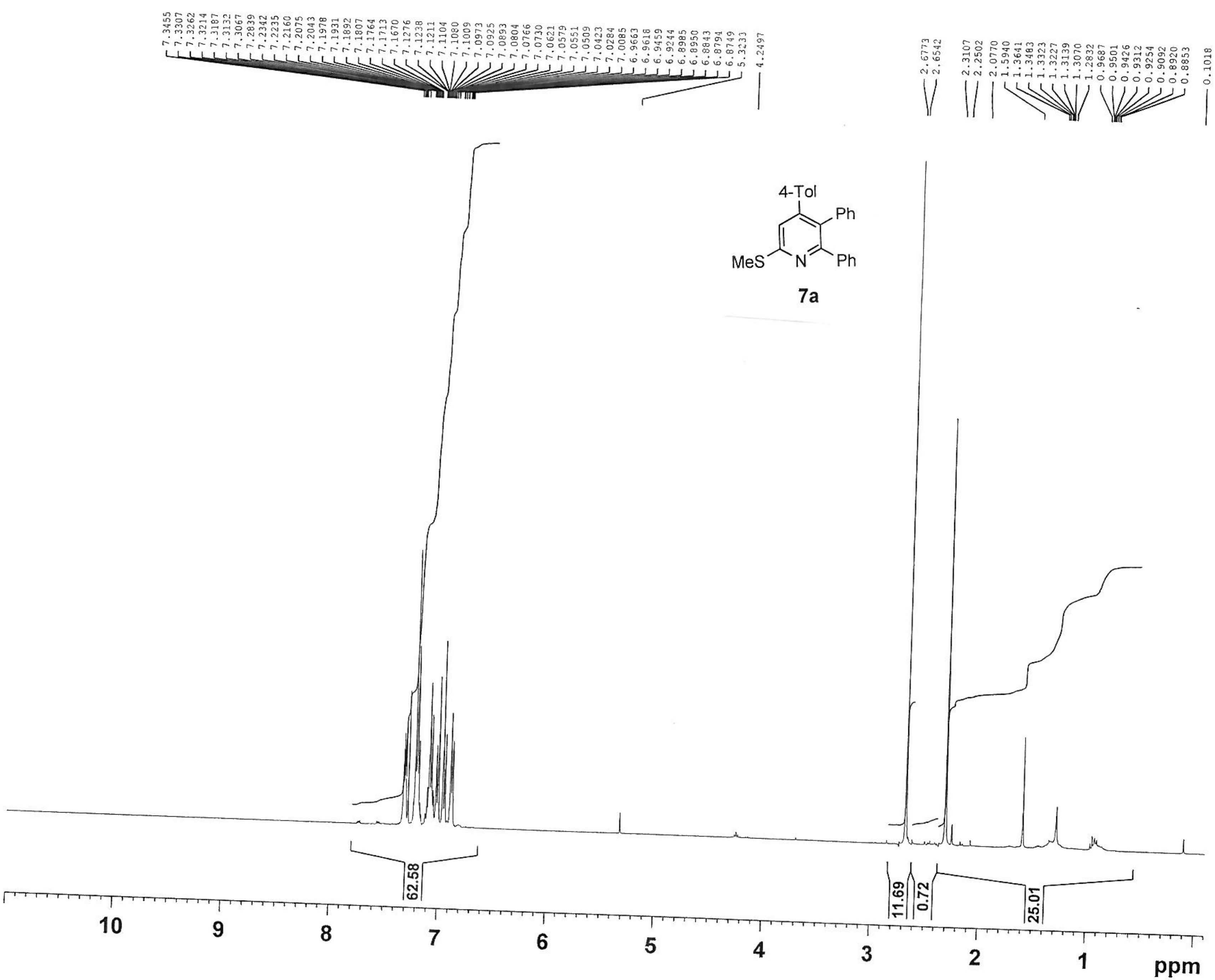
F2 - Acquisition Parameters
Date_            20100325
Time                10.44
INSTRUM            dpx400
PROBHD   5 mm QNP  1H/1
PULPROG           zgpg30
TD                 65536
SOLVENT            CDCl3
NS                   256
DS                     4
SWH            23980.814 Hz
FIDRES          0.365918 Hz
AQ             1.3664756 sec
RG                 13004
DW                20.850 usec
DE                  6.00 usec
TE                 291.2 K
D1            2.00000000 sec
d11           0.03000000 sec
DELTA         1.89999998 sec
TD0                    8

======== CHANNEL f1 ========
NUC1                 13C
P1                  9.70 usec
PL1                -3.00 dB
SFO1         100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2          waltz16
NUC2                  1H
PCPD2              84.00 usec
PL2                -3.00 dB
PL12               18.00 dB
PL13               18.00 dB
SFO2         400.1316005 MHz

F2 - Processing parameters
SI                 32768
SF           100.6127690 MHz
WDW                   EM
SSB                    0
LB                  1.00 Hz
GB                     0
PC                  1.40
```

mk



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Current Data Parameters
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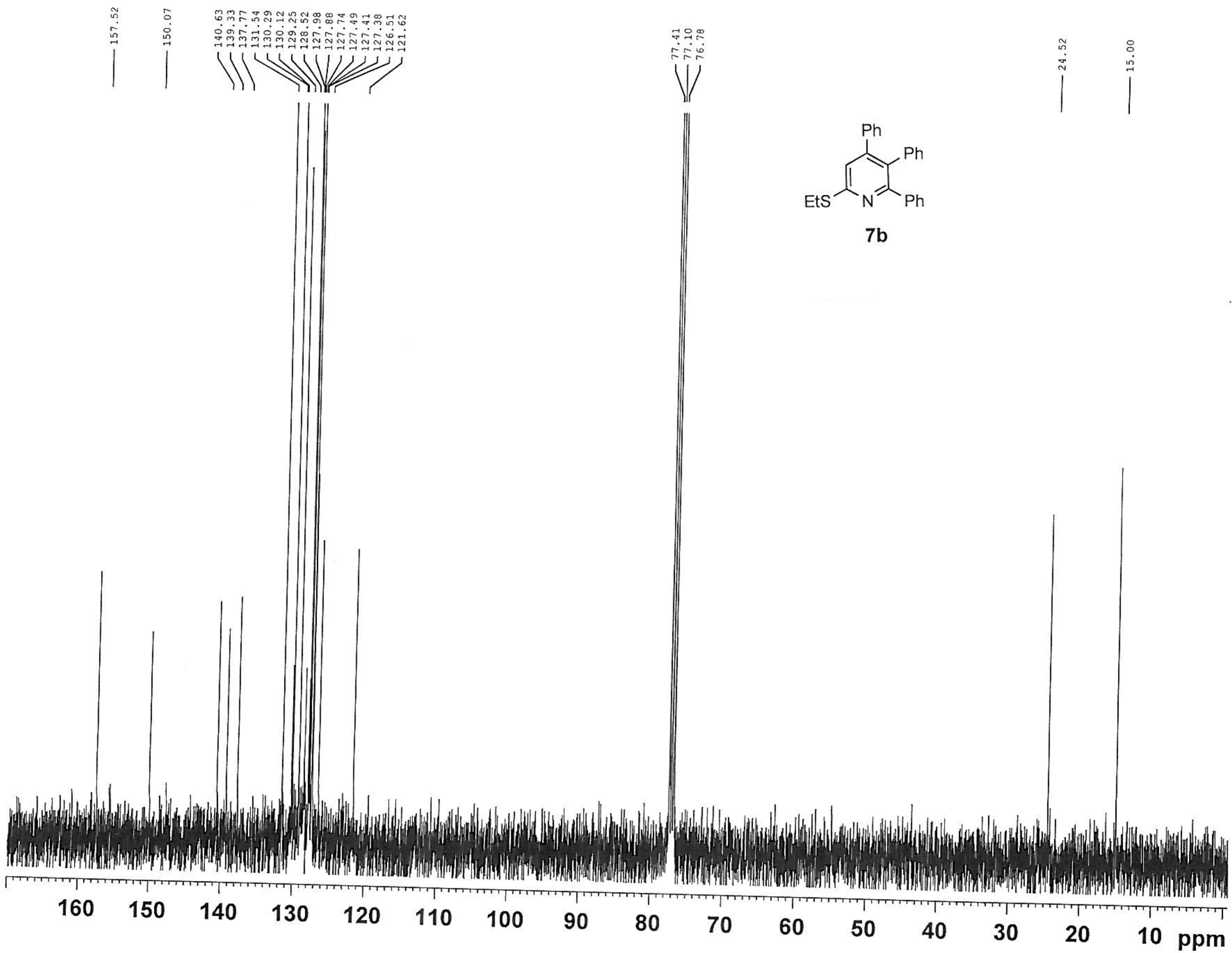
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100325
Time_ 10.41
INSTRUM dpx400
PROBHD 5 mm QNP 1H/1
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 287.4
DW 60.400 usec
DE 6.00 usec
TE 290.9 K
D1 1.00000000 sec
TD0 1

======== CHANNEL f1 ========
NUC1 1H
P1 8.40 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

3



7b

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Current Data Parameters

NAME	MK 55 K
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20101209
Time_	14.26
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	256
DS	4
SWH	23980.814 Hz
FIDRES	0.365918 Hz
AQ	1.3664756 sec
RG	13004
DW	20.850 usec
DE	6.00 usec
TE	289.5 K
D1	2.00000000 sec
d11	0.03000000 sec
DELTA	1.89999998 sec
TD0	8

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

NUC1	13C
P1	9.70 usec
PL1	-3.00 dB
SFO1	100.6228298 MHz

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

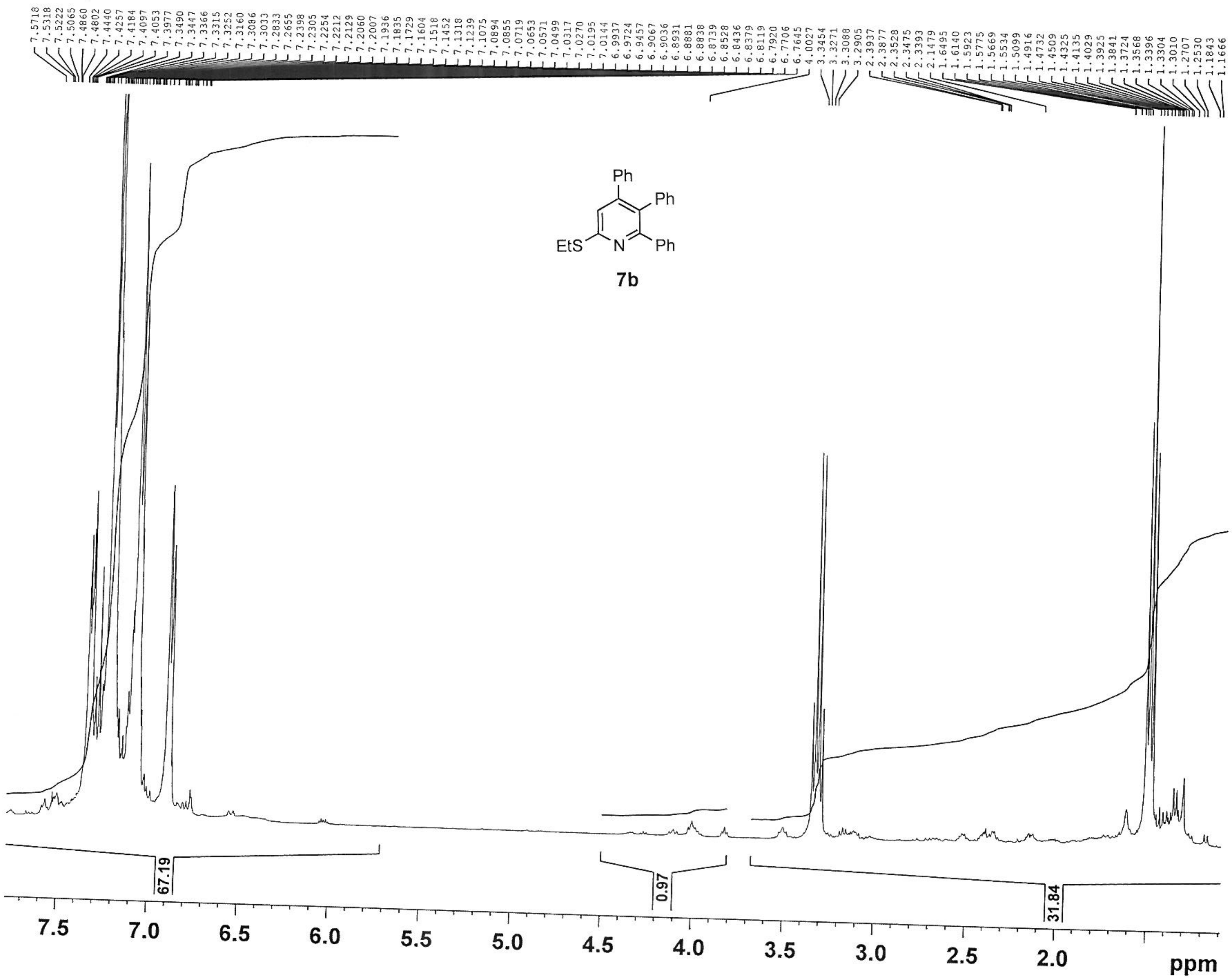
CPDPRG2	waltz16
NUC2	1H
PCPD2	84.00 usec
PL2	-3.00 dB
PL12	18.00 dB
PL13	18.00 dB
SFO2	400.1316005 MHz

F2 - Processing parameters

SI	32768
SF	100.6127690 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

4

5



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Current Data Parameters

NAME	MK 55 K
EXPNO	1
PROCNO	1

F2 - Acquisition Parameters

Date_	20101209
Time	14.23
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	2
SWH	8278.146 Hz
FIDRES	0.126314 Hz
AQ	3.9584243 sec
RG	114
DW	60.400 usec
DE	6.00 usec
TE	289.4 K
D1	1.00000000 sec
TD0	1

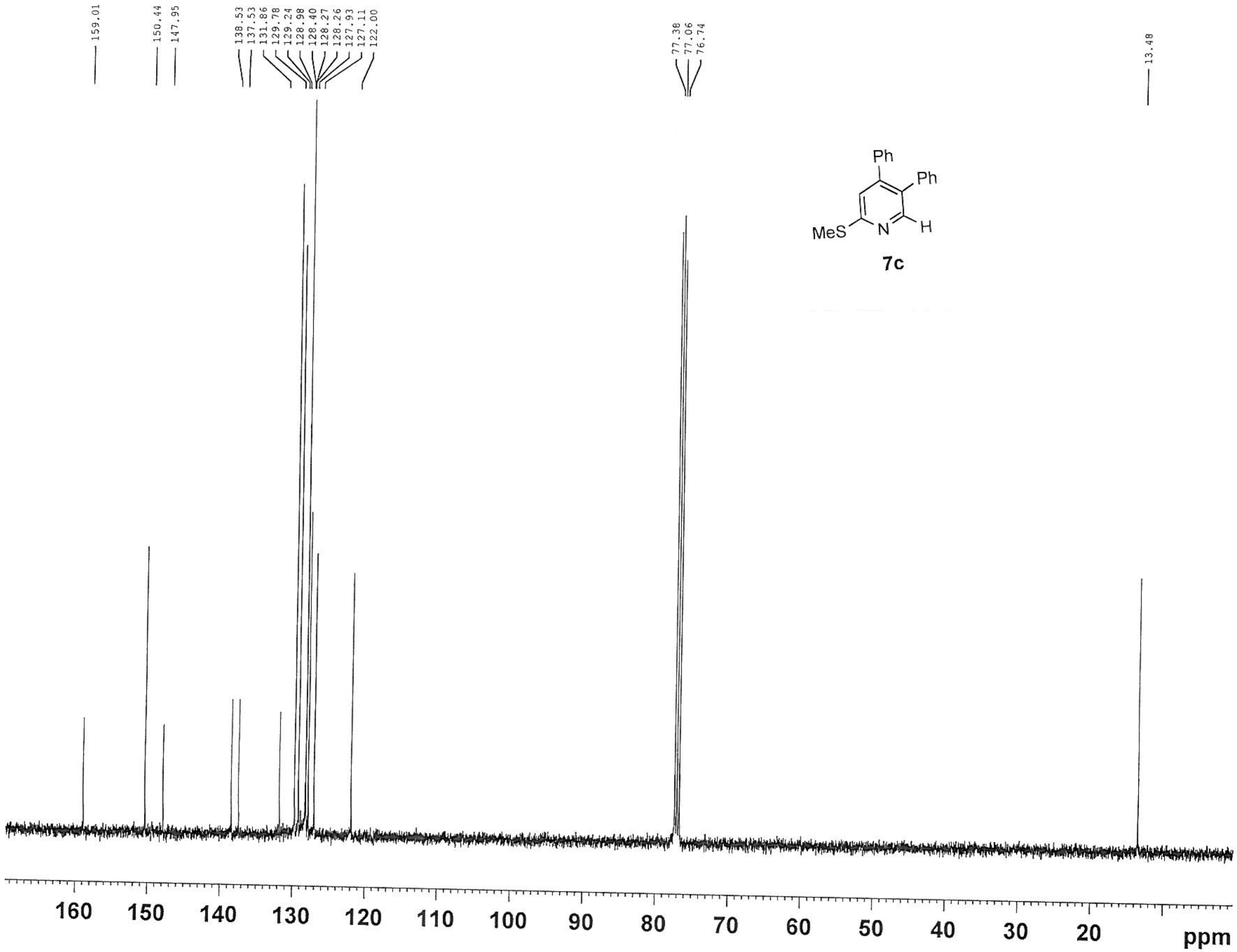
======== CHANNEL f1 ========

NUC1	1H
P1	8.40 usec
PL1	-3.00 dB
SFO1	400.1324710 MHz

F2 - Processing parameters

SI	32768
SF	400.1300000 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

(6)



7c

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EXPNO                     2
PROCNO                    1

F2 - Acquisition Parameters
Date_              20110809
Time                  15.36
INSTRUM              dpx400
PROBHD       5 mm QNP  1H/1
PULPROG             zgpg30
TD                    65536
SOLVENT               CDCl3
NS                      256
DS                        4
SWH              23980.814 Hz
FIDRES            0.365918 Hz
AQ               1.3664756 sec
RG                  11585.2
DW                   20.850 usec
DE                     6.00 usec
TE                    294.3 K
D1               2.00000000 sec
d11              0.03000000 sec
DELTA            1.89999998 sec
TD0                       8

======== CHANNEL f1 ========
NUC1                    13C
P1                     9.70 usec
PL1                   -3.00 dB
SFO1            100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2             waltz16
NUC2                     1H
PCPD2                 84.00 usec
PL2                   -3.00 dB
PL12                  16.08 dB
PL13                  18.00 dB
SFO2            400.1316005 MHz

F2 - Processing parameters
SI                    32768
SF              100.6127690 MHz
WDW                      EM
SSB                       0
LB                     1.00 Hz
GB                        0
PC                     1.40
```

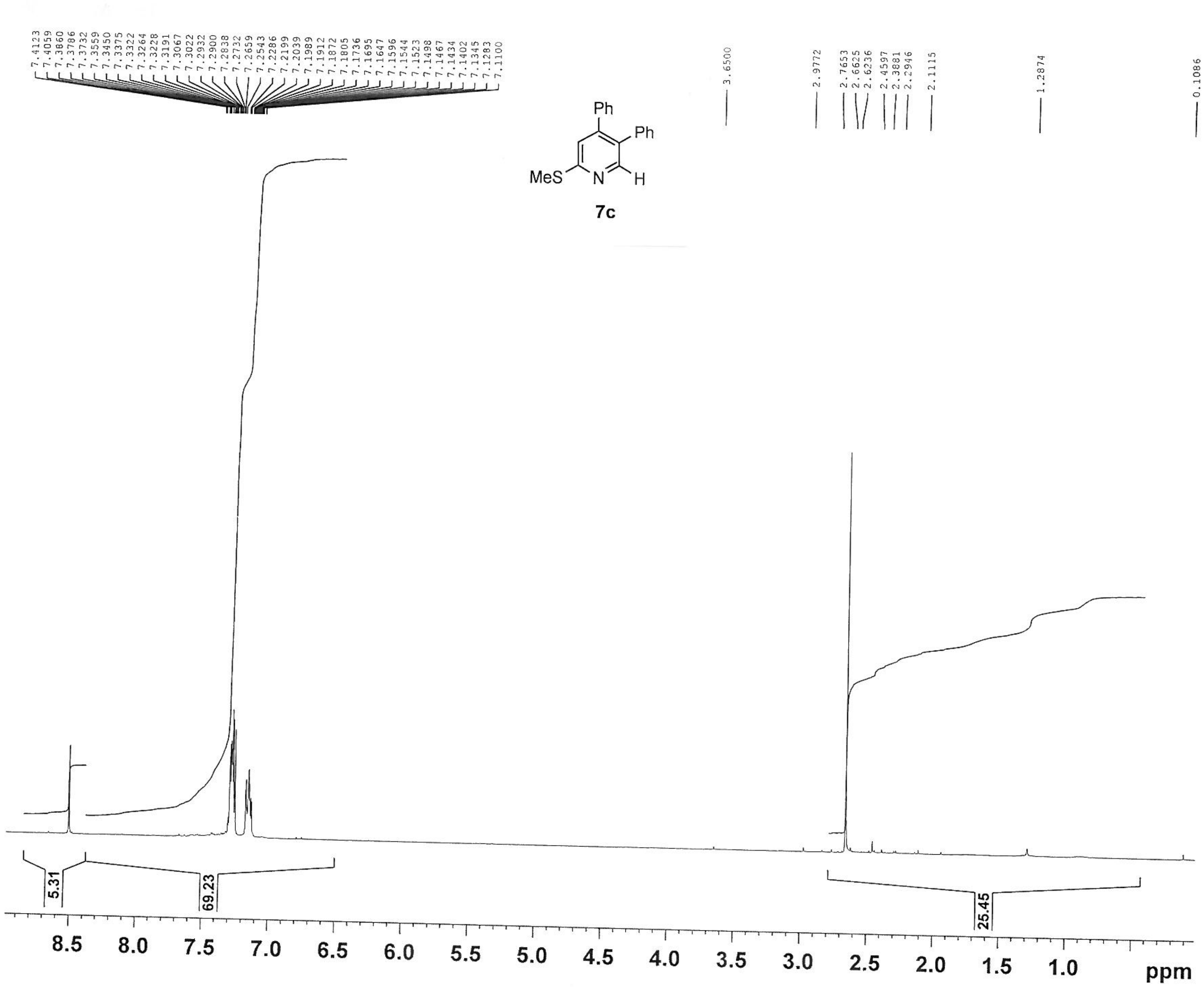

7c

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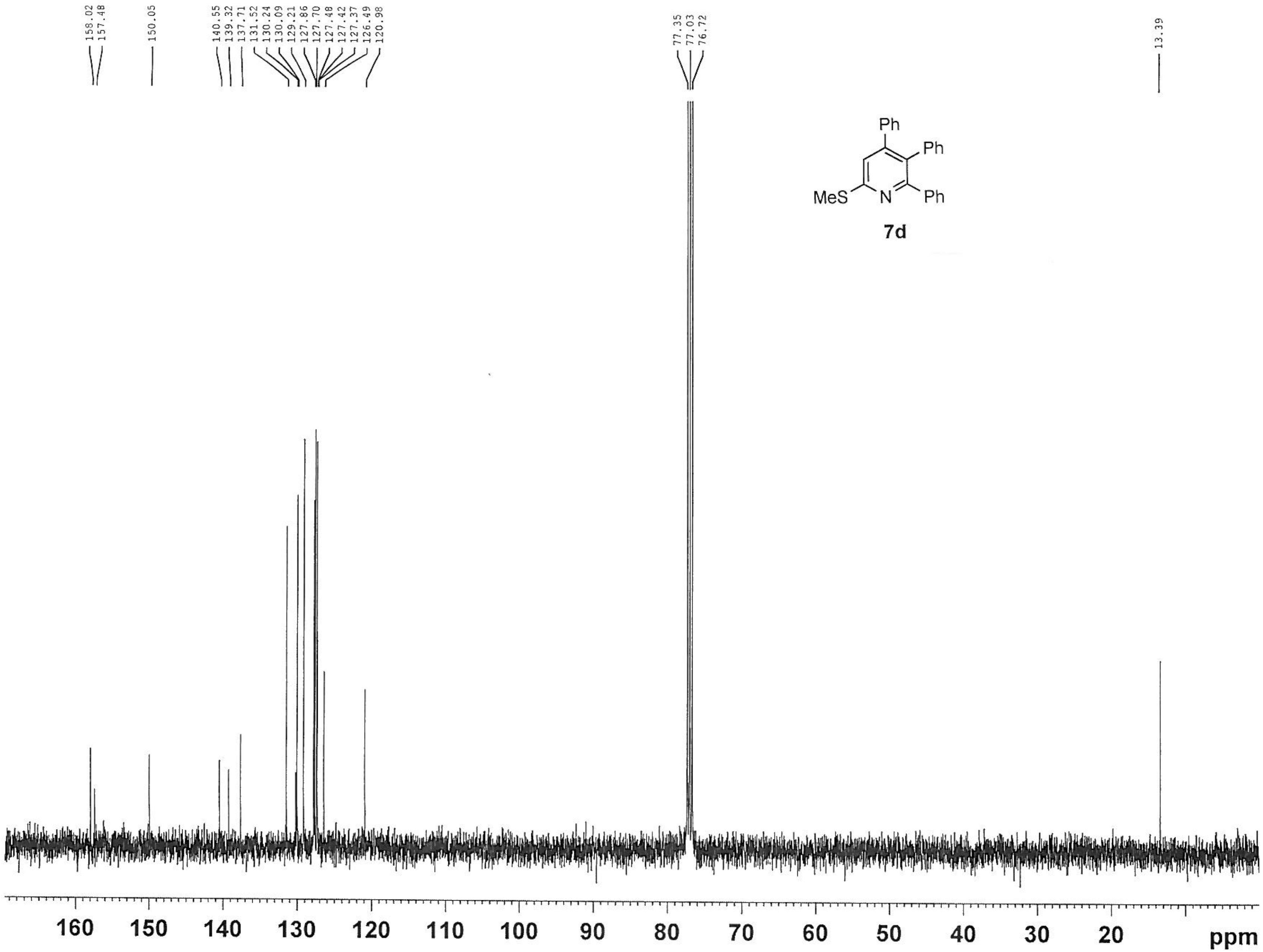
```
Current Data Parameters
NAME          MK 58 M REP
EXPNO                   1
PROCNO                  1

F2 - Acquisition Parameters
Date_            20110809
Time                15.33
INSTRUM            dpx400
PROBHD    5 mm QNP  1H/1
PULPROG              zg30
TD                  65536
SOLVENT             CDCl3
NS                     16
DS                      2
SWH            8278.146 Hz
FIDRES         0.126314 Hz
AQ            3.9584243 sec
RG                  161.3
DW               60.400 usec
DE                 6.00 usec
TE                294.0 K
D1           1.00000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                   1H
P1                   8.40 usec
PL1                 -3.00 dB
SFO1         400.1324710 MHz

F2 - Processing parameters
SI                  32768
SF           400.1300000 MHz
WDW                    EM
SSB                     0
LB                   0.30 Hz
GB                      0
PC                   1.00
```

7



7d

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Current Data Parameters	
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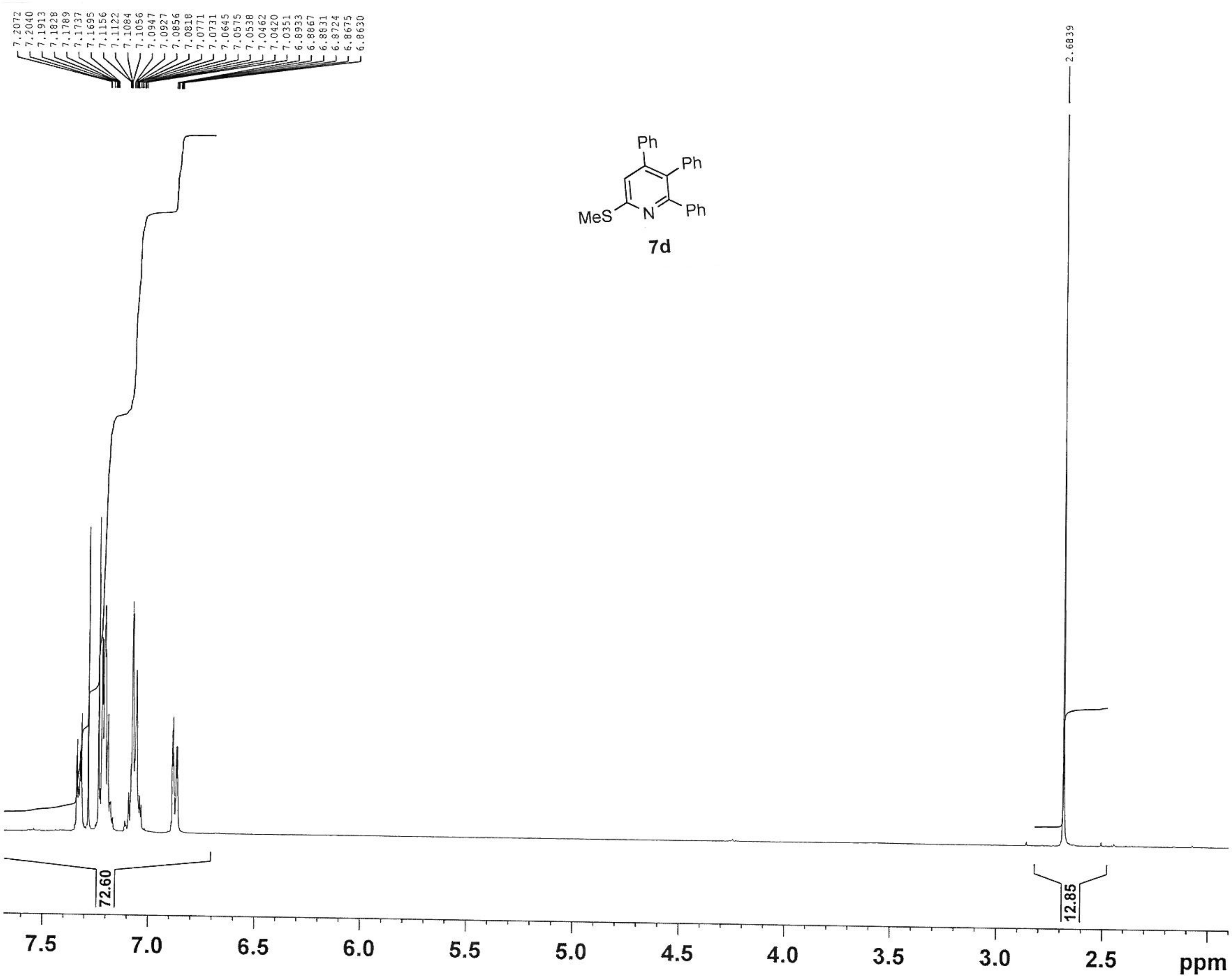
EXPNO	2
PROCNO	1
F2 - Acquisition Parameters	
Date_	20110812
Time_	12.51
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	256
DS	4
SWH	23980.814 Hz
FIDRES	0.365918 Hz
AQ	1.3664756 sec
RG	11585.2
DW	20.850 usec
DE	6.00 usec
TE	294.3 K
D1	2.00000000 sec
d11	0.03000000 sec
DELTA	1.89999998 sec
TD0	8
======== CHANNEL f1 ========	
NUC1	13C
P1	9.70 usec
PL1	-3.00 dB
SFO1	100.6228298 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	84.00 usec
PL2	-3.00 dB
PL12	16.08 dB
PL13	18.00 dB
SFO2	400.1316005 MHz
F2 - Processing parameters	
SI	32768
SF	100.6127690 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

(8)



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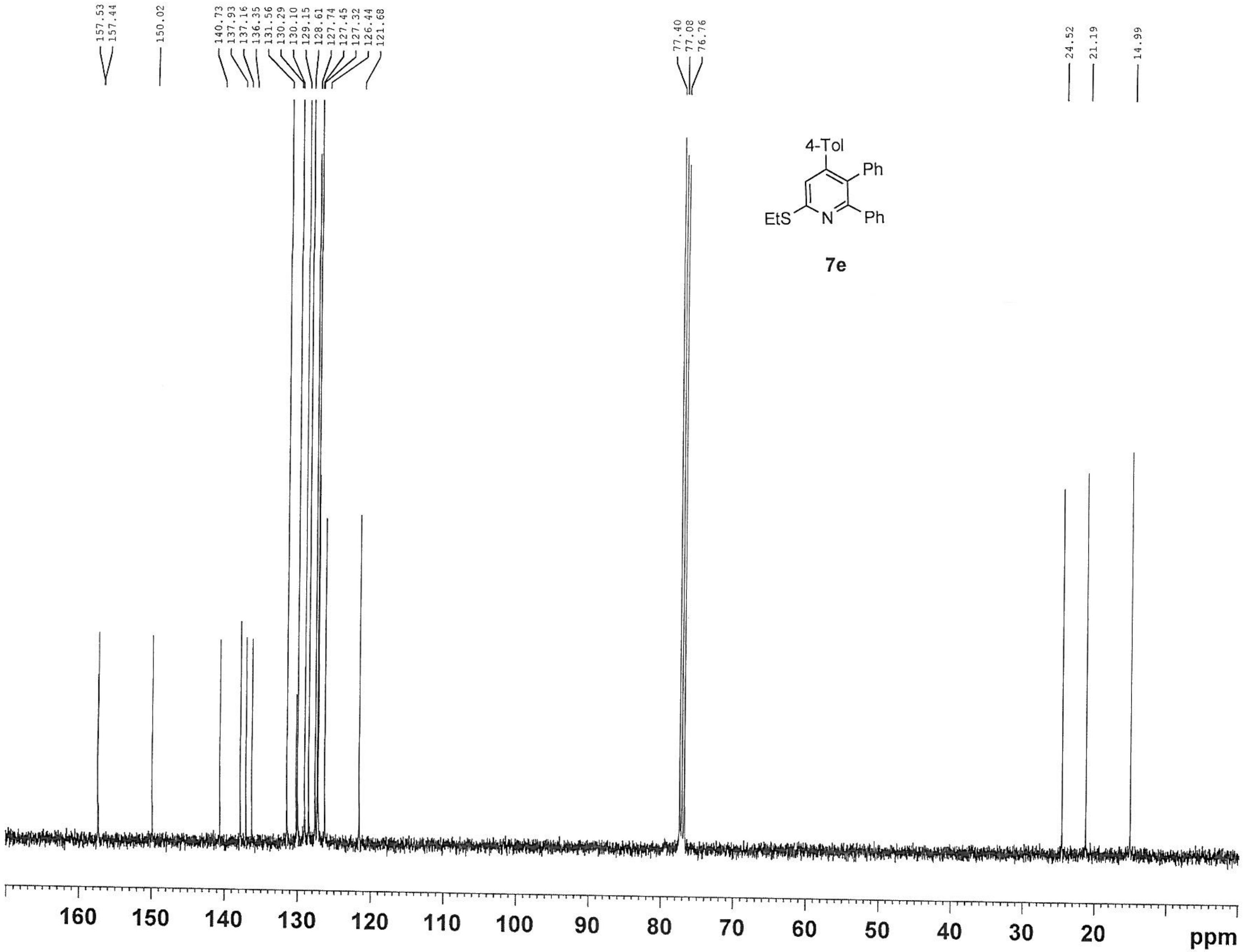
Current Data Parameters		
NAME	mk 9 d	
EXPNO	1	
PROCNO	1	
F2 - Acquisition Parameters		
Date_	20110812	
Time_	12.48	
INSTRUM	dpx400	
PROBHD	5 mm QNP 1H/1	
PULPROG	zg30	
TD	65536	
SOLVENT	CDCl3	
NS	16	
DS	2	
SWH	8278.146	Hz
FIDRES	0.126314	Hz
AQ	3.9584243	sec
RG	406.4	
DW	60.400	usec
DE	6.00	usec
TE	293.9	K
D1	1.00000000	sec
TD0	1	
======== CHANNEL f1 ========		
NUC1	1H	
P1	8.40	usec
PL1	-3.00	dB
SFO1	400.1324710	MHz
F2 - Processing parameters		
SI	32768	
SF	400.1300000	MHz
WDW	EM	
SSB	0	
LB	0.30	Hz
GB	0	
PC	1.00	

9

(10)



7e

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Current Data Parameters

NAME	mk 30 n
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20100525
Time_	11.52
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	256
DS	4
SWH	23980.814 Hz
FIDRES	0.365918 Hz
AQ	1.3664756 sec
RG	8192
DW	20.850 usec
DE	6.00 usec
TE	293.8 K
D1	2.00000000 sec
d11	0.03000000 sec
DELTA	1.89999998 sec
TD0	8

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

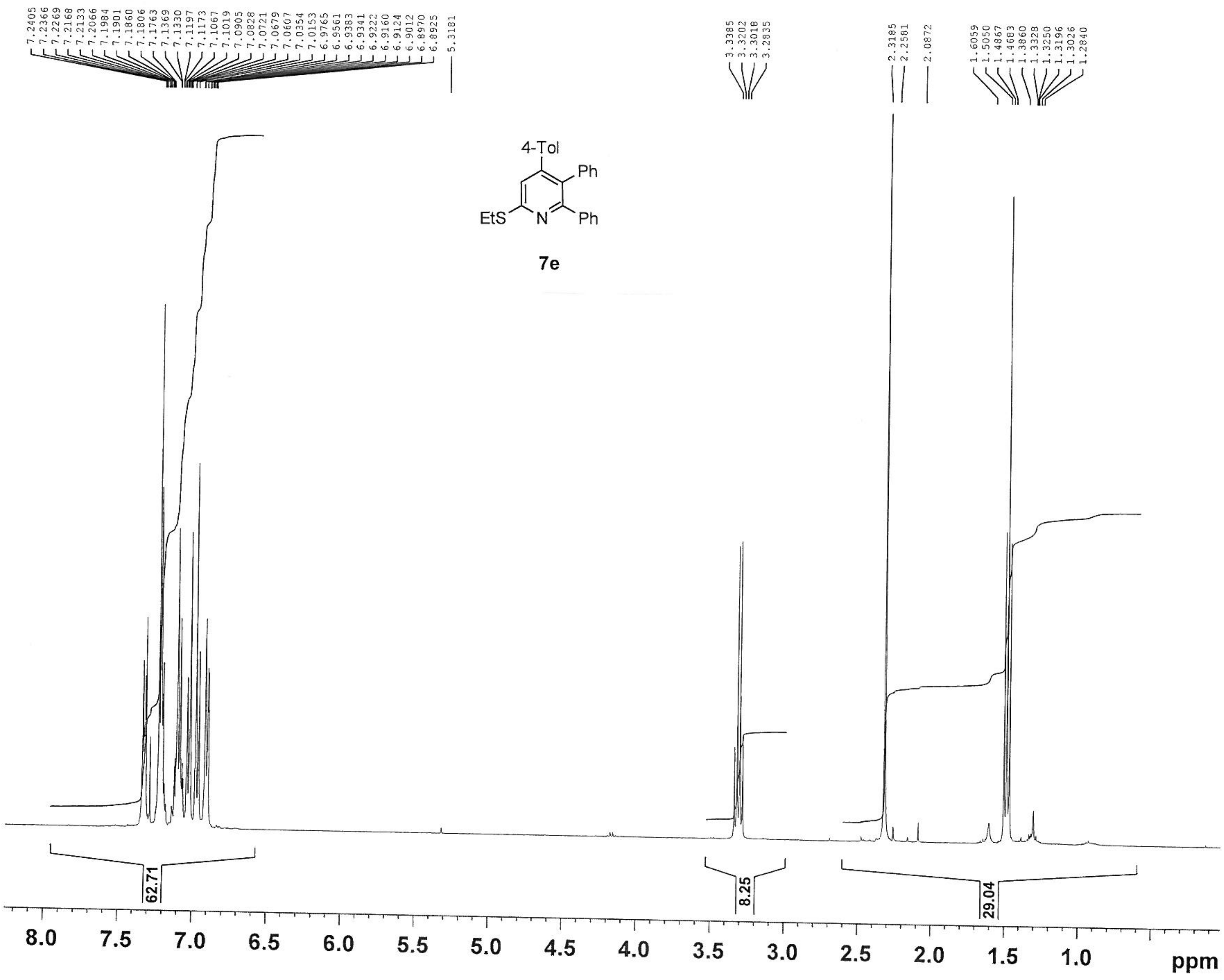
NUC1	13C
P1	9.70 usec
PL1	-3.00 dB
SFO1	100.6228298 MHz

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

CPDPRG2	waltz16
NUC2	1H
PCPD2	84.00 usec
PL2	-3.00 dB
PL12	18.00 dB
PL13	18.00 dB
SFO2	400.1316005 MHz

F2 - Processing parameters

SI	32768
SF	100.6127690 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40



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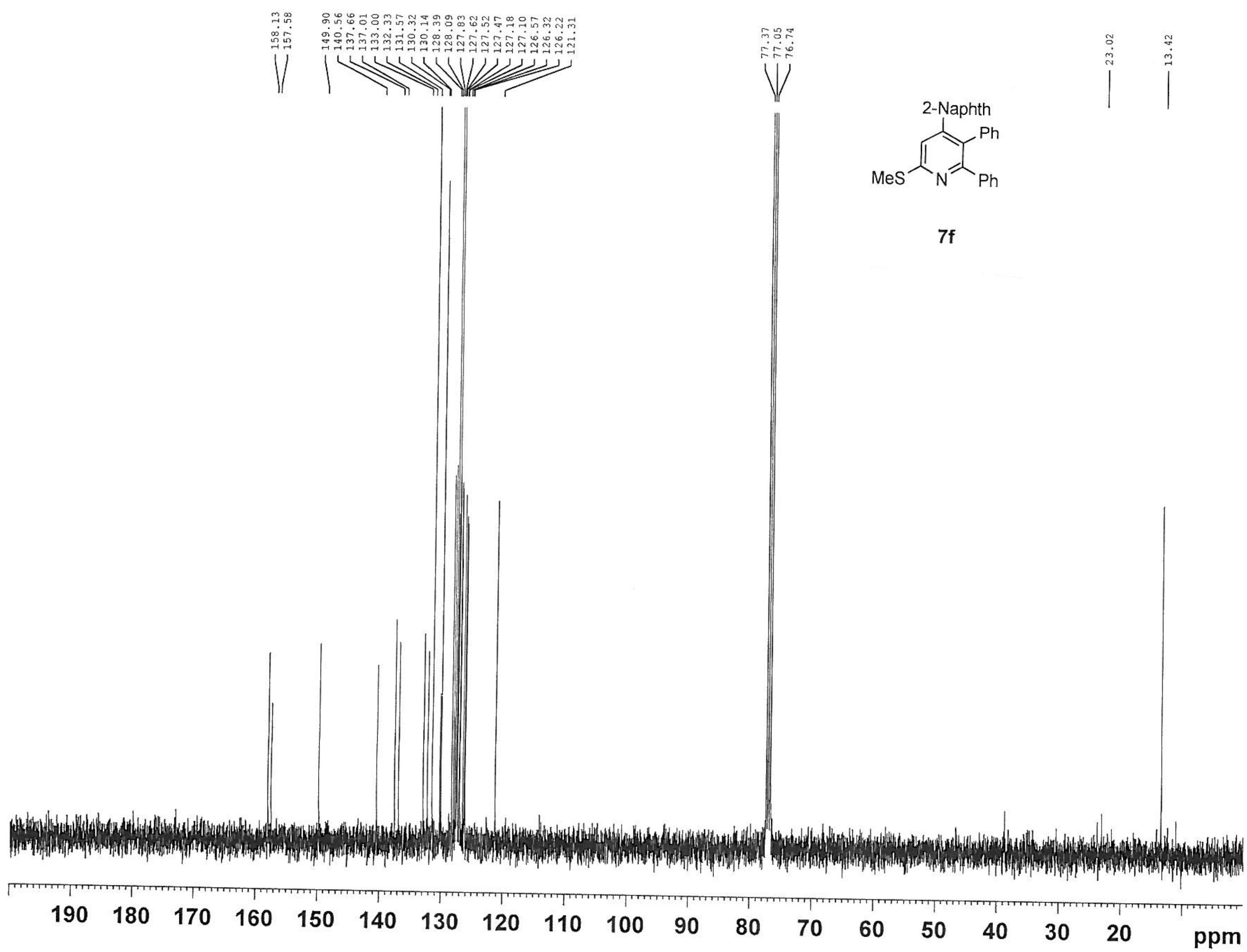
(11)

```
Current Data Parameters
NAME            mk 30 n
EXPNO                 1
PROCNO                1

F2 - Acquisition Parameters
Date_          20100525
Time              11.49
INSTRUM          dpx400
PROBHD   5 mm QNP 1H/1
PULPROG            zg30
TD                65536
SOLVENT           CDCl3
NS                   16
DS                    2
SWH            8278.146 Hz
FIDRES         0.126314 Hz
AQ            3.9584243 sec
RG                  128
DW               60.400 usec
DE                 6.00 usec
TE                293.5 K
D1           1.00000000 sec
TD0                   1

======== CHANNEL f1 ========
NUC1                 1H
P1                 8.40 usec
PL1               -3.00 dB
SFO1        400.1324710 MHz

F2 - Processing parameters
SI                32768
SF          400.1300000 MHz
WDW                  EM
SSB                   0
LB                 0.30 Hz
GB                    0
PC                 1.00
```



7f

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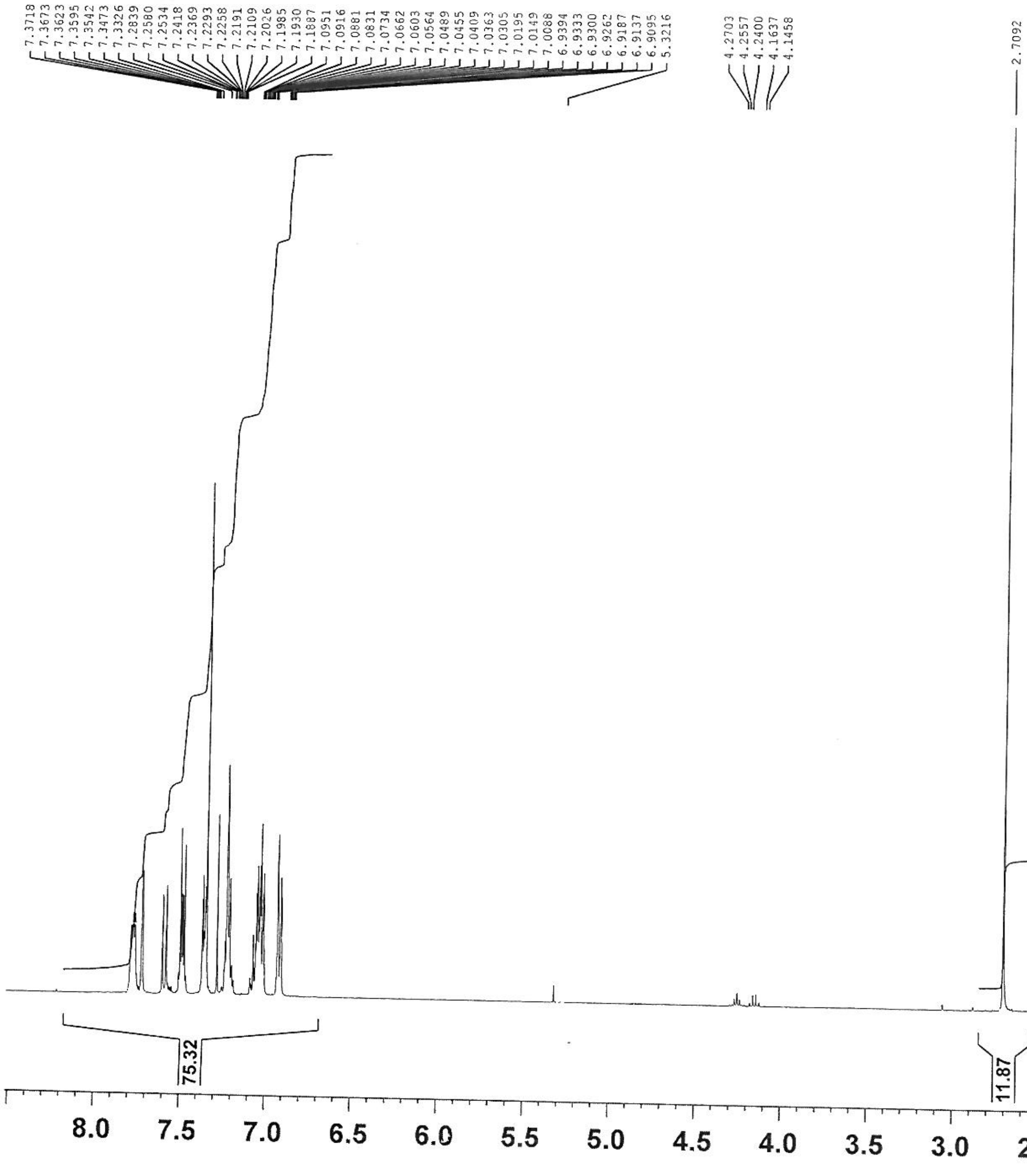
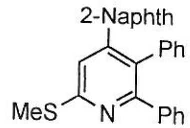
Current Data Parameters	
NAME	MK 28 rep d
EXPNO	2
PROCNO	1
F2 - Acquisition Parameters	
Date_	20100615
Time_	16.25
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	256
DS	4
SWH	23980.814 Hz
FIDRES	0.365918 Hz
AQ	1.3664756 sec
RG	14596.5
DW	20.850 usec
DE	6.00 usec
TE	292.9 K
D1	2.00000000 sec
d11	0.03000000 sec
DELTA	1.89999998 sec
TD0	8
======== CHANNEL f1 ========	
NUC1	13C
P1	9.70 usec
PL1	-3.00 dB
SFO1	100.6228298 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	84.00 usec
PL2	-3.00 dB
PL12	18.00 dB
PL13	18.00 dB
SFO2	400.1316005 MHz
F2 - Processing parameters	
SI	32768
SF	100.6127690 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

12





7f

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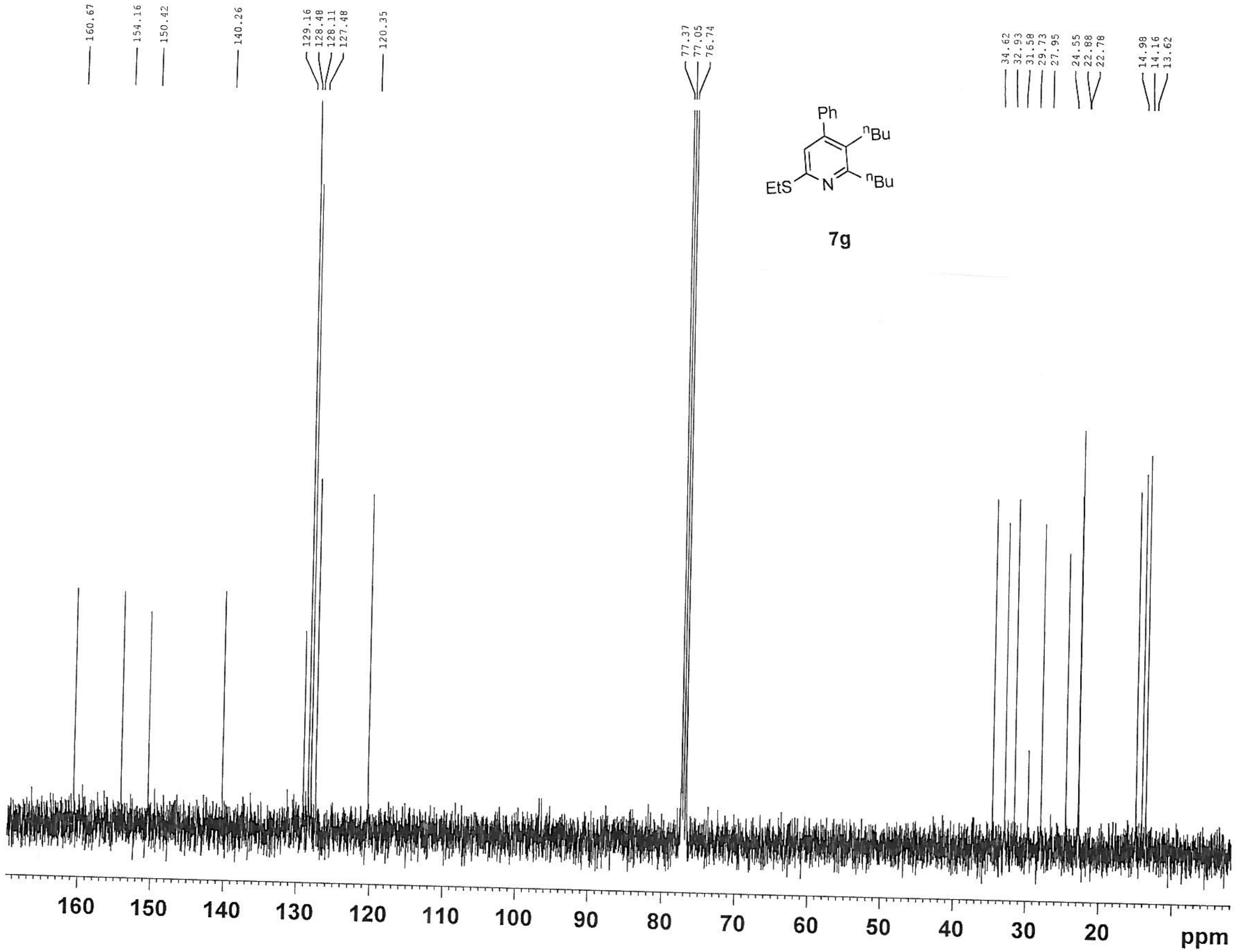
Current Data Parameters
NAME          MK 28 rep d
EXPNO                   1
PROCNO                  1

F2 - Acquisition Parameters
Date_            20100615
Time                16.22
INSTRUM            dpx400
PROBHD    5 mm QNP   1H/1
PULPROG              zg30
TD                  65536
SOLVENT             CDCl3
NS                     16
DS                      2
SWH             8278.146 Hz
FIDRES          0.126314 Hz
AQ             3.9584243 sec
RG                  228.1
DW                 60.400 usec
DE                   6.00 usec
TE                  292.6 K
D1            1.00000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                   1H
P1                   8.40 usec
PL1                 -3.00 dB
SFO1          400.1324710 MHz

F2 - Processing parameters
SI                  32768
SF            400.1300000 MHz
WDW                    EM
SSB                     0
LB                   0.30 Hz
GB                      0
PC                   1.00
```

Mk 45 b



7g

(14)

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```
Current Data Parameters
NAME             Mk 45 b
EXPNO                  2
PROCNO                 1

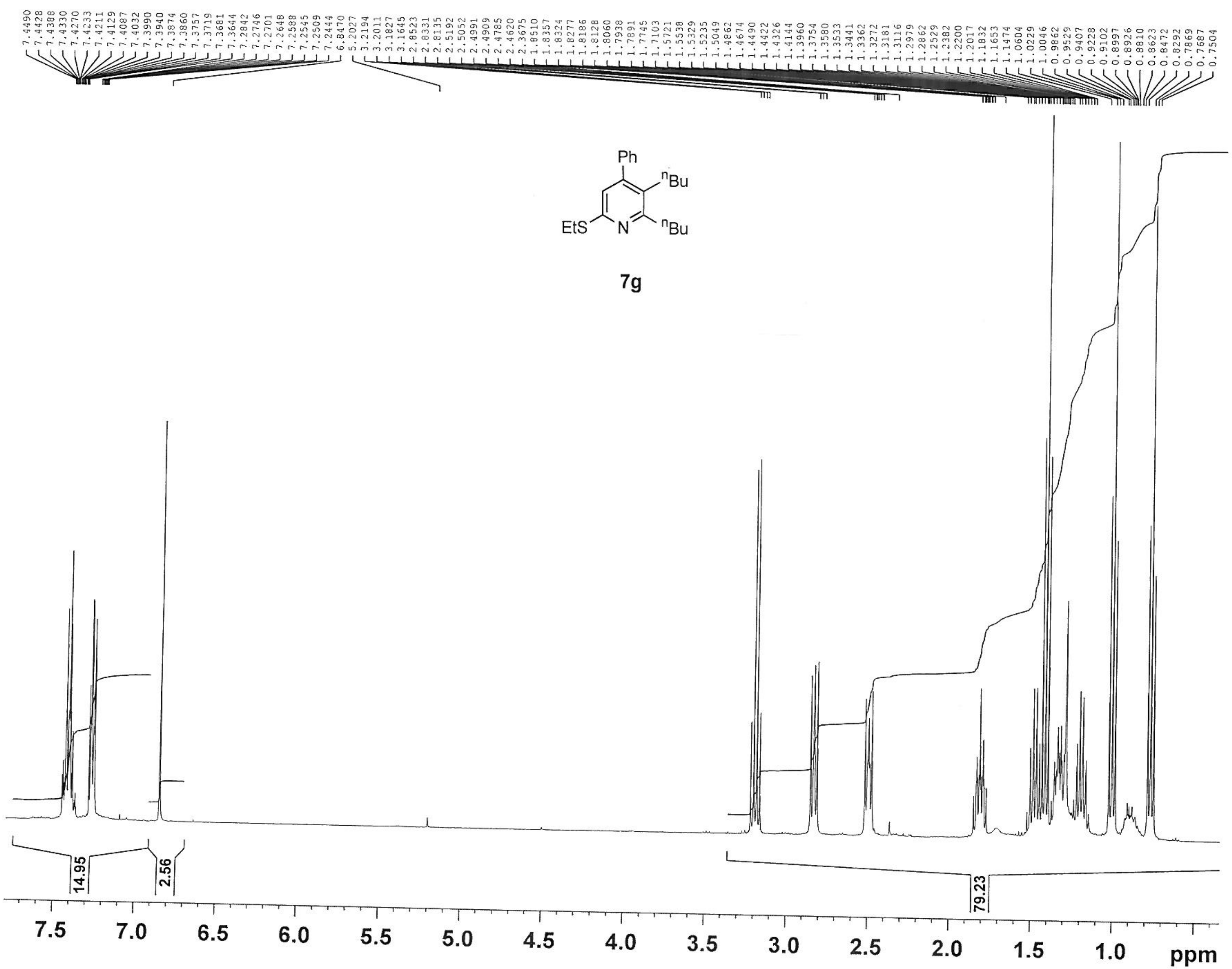
F2 - Acquisition Parameters
Date_           20100818
Time               15.17
INSTRUM           dpx400
PROBHD     5 mm QNP 1H/1
PULPROG          zgpg30
TD                 65536
SOLVENT            CDCl3
NS                   256
DS                     4
SWH          23980.814 Hz
FIDRES        0.365918 Hz
AQ           1.3664756 sec
RG                  6502
DW              20.850 usec
DE                6.00 usec
TE               293.9 K
D1          2.00000000 sec
d11         0.03000000 sec
DELTA       1.89999998 sec
TD0                    8

======== CHANNEL f1 ========
NUC1                 13C
P1                  9.70 usec
PL1                -3.00 dB
SFO1         100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2          waltz16
NUC2                  1H
PCPD2              84.00 usec
PL2                -3.00 dB
PL12               18.00 dB
PL13               18.00 dB
SFO2         400.1316005 MHz

F2 - Processing parameters
SI                 32768
SF           100.6127690 MHz
WDW                   EM
SSB                    0
LB                  1.00 Hz
GB                     0
PC                  1.40
```

Mk 45 b



7g

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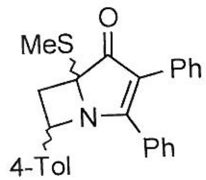
Current Data Parameters
NAME Mk 45 b
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100818
Time_ 15.14
INSTRUM dpx400
PROBHD 5 mm QNP 1H/1
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 64
DW 60.400 usec
DE 6.00 usec
TE 293.6 K
D1 1.00000000 sec
TD0 1

======== CHANNEL f1 ========
NUC1 1H
P1 8.40 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

mk 15



4a

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16

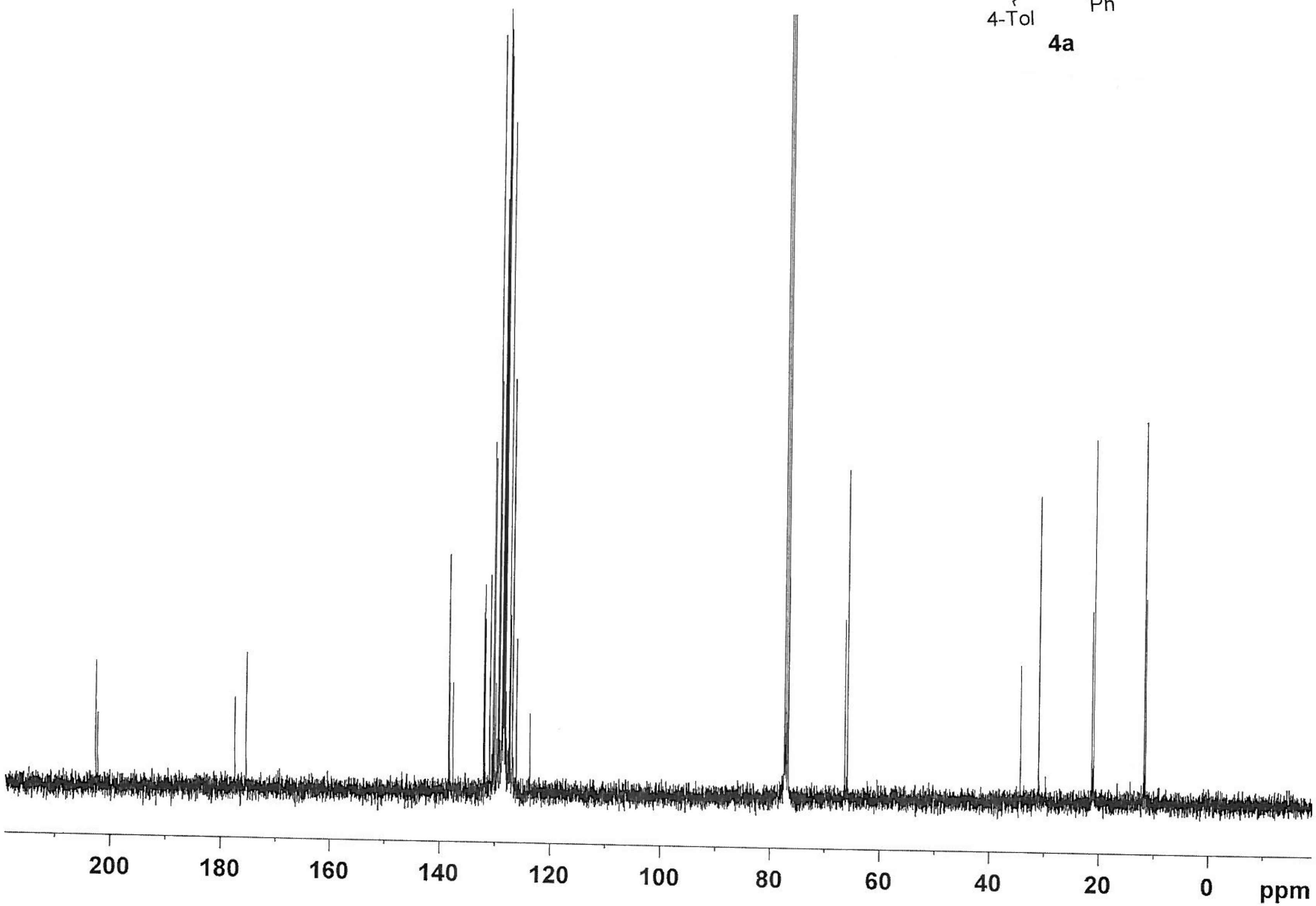
Current Data Parameters
NAME mk 15
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100316
Time_ 10.44
INSTRUM dpx400
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 14596.5
DW 20.850 usec
DE 6.00 usec
TE 289.1 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
TD0 8

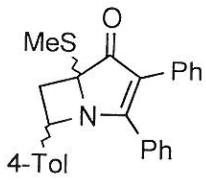
======== CHANNEL f1 ========
NUC1 13C
P1 9.70 usec
PL1 -3.00 dB
SFO1 100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 84.00 usec
PL2 -3.00 dB
PL12 18.00 dB
PL13 18.00 dB
SFO2 400.1316005 MHz

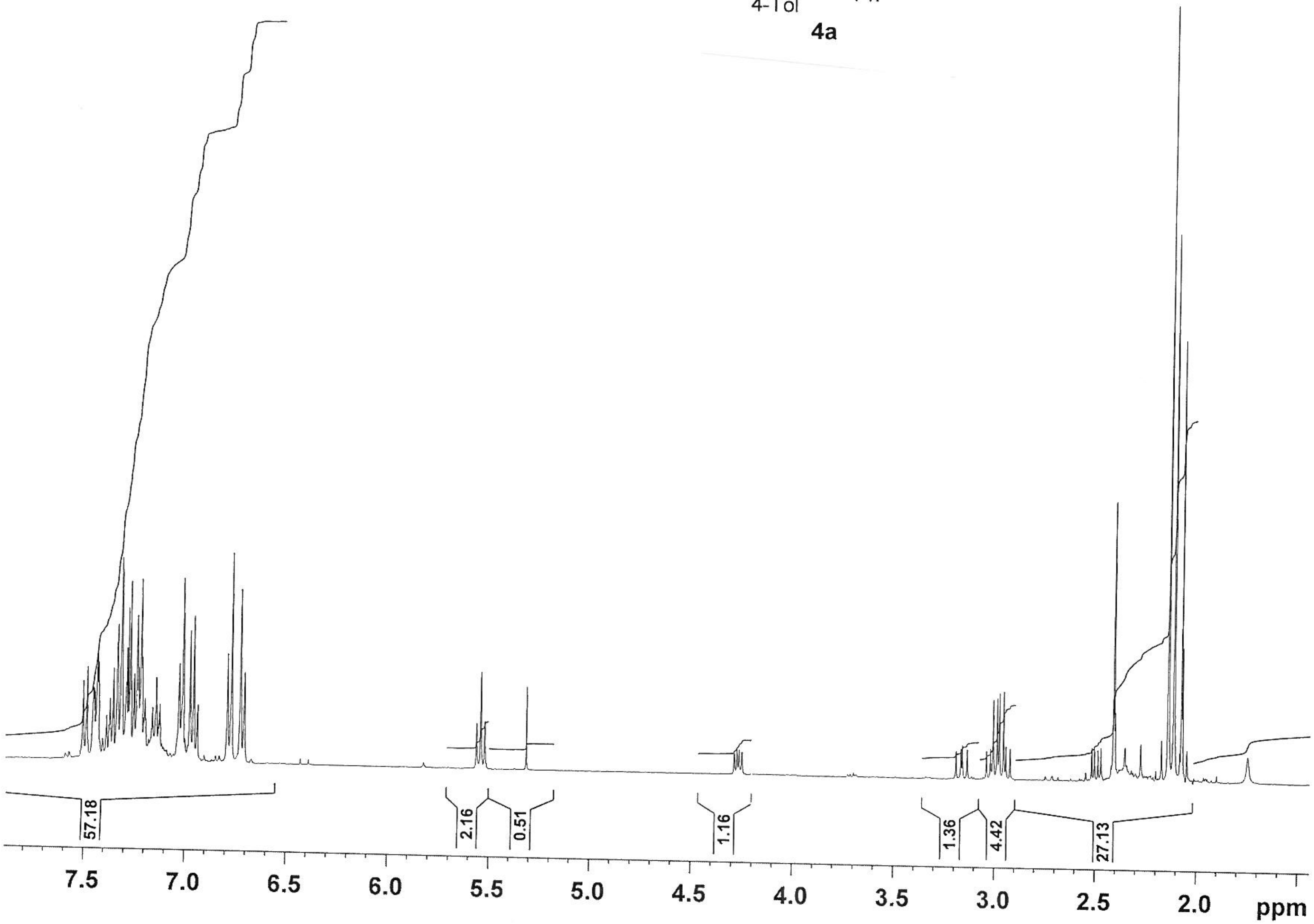
F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



mk 15



4a



(17)

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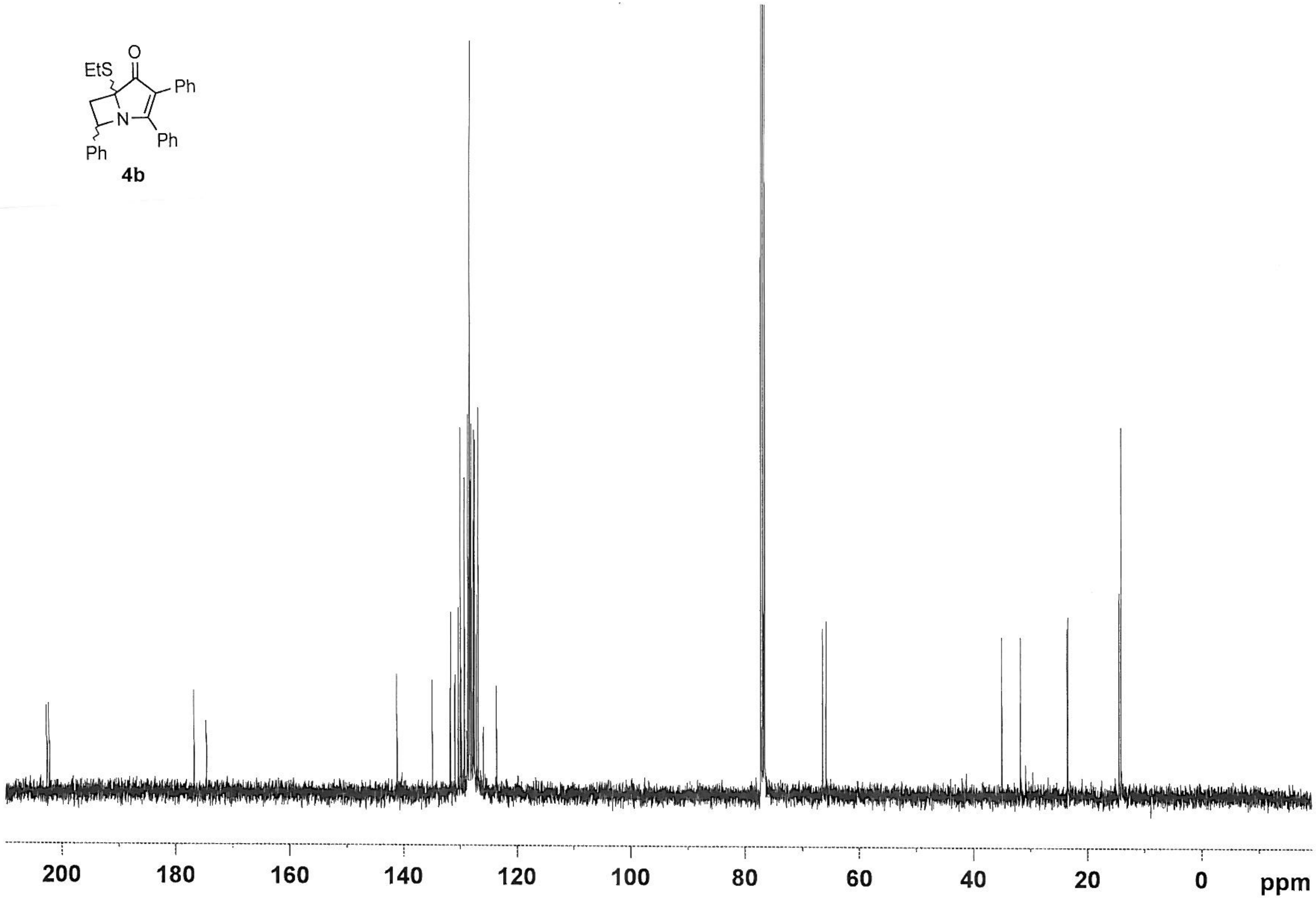
```
Current Data Parameters
NAME                mk 15
EXPNO                   1
PROCNO                  1

F2 - Acquisition Parameters
Date_            20100316
Time                10.40
INSTRUM            dpx400
PROBHD   5 mm QNP    1H/1
PULPROG              zg30
TD                  65536
SOLVENT             CDCl3
NS                     16
DS                      2
SWH              8278.146 Hz
FIDRES           0.126314 Hz
AQ              3.9584243 sec
RG                    128
DW                 60.400 usec
DE                   6.00 usec
TE                  288.9 K
D1             1.00000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                   1H
P1                   8.40 usec
PL1                 -3.00 dB
SFO1          400.1324710 MHz

F2 - Processing parameters
SI                  32768
SF            400.1300000 MHz
WDW                    EM
SSB                     0
LB                   0.30 Hz
GB                      0
PC                   1.00
```

13C H-decoupled



4b

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Current Data Parameters
NAME               sn13713ap
EXPNO                      2
PROCNO                     1

F2 - Acquisition Parameters
Date_               20051216
Time                   11.40
INSTRUM               dpx400
PROBHD      5 mm QNP   1H/1
PULPROG              zgpg30
TD                    65536
SOLVENT               CDCl3
NS                      256
DS                        4
SWH              23980.814 Hz
FIDRES            0.365918 Hz
AQ               1.3664756 sec
RG                   322.5
DW                  20.850 usec
DE                    6.00 usec
TE                   292.4 K
D1              2.00000000 sec
d11             0.03000000 sec
DELTA           1.89999998 sec
TD0                       8

======== CHANNEL f1 ========
NUC1                    13C
P1                     9.70 usec
PL1                   -3.00 dB
SFO1            100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2             waltz16
NUC2                     1H
PCPD2                 84.00 usec
PL2                   -3.00 dB
PL12                  18.00 dB
PL13                  18.00 dB
SFO2            400.1316005 MHz

F2 - Processing parameters
SI                    32768
SF              100.6127776 MHz
WDW                      EM
SSB                       0
LB                     1.00 Hz
GB                        0
PC                     1.40
```
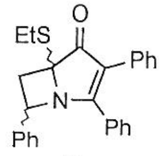
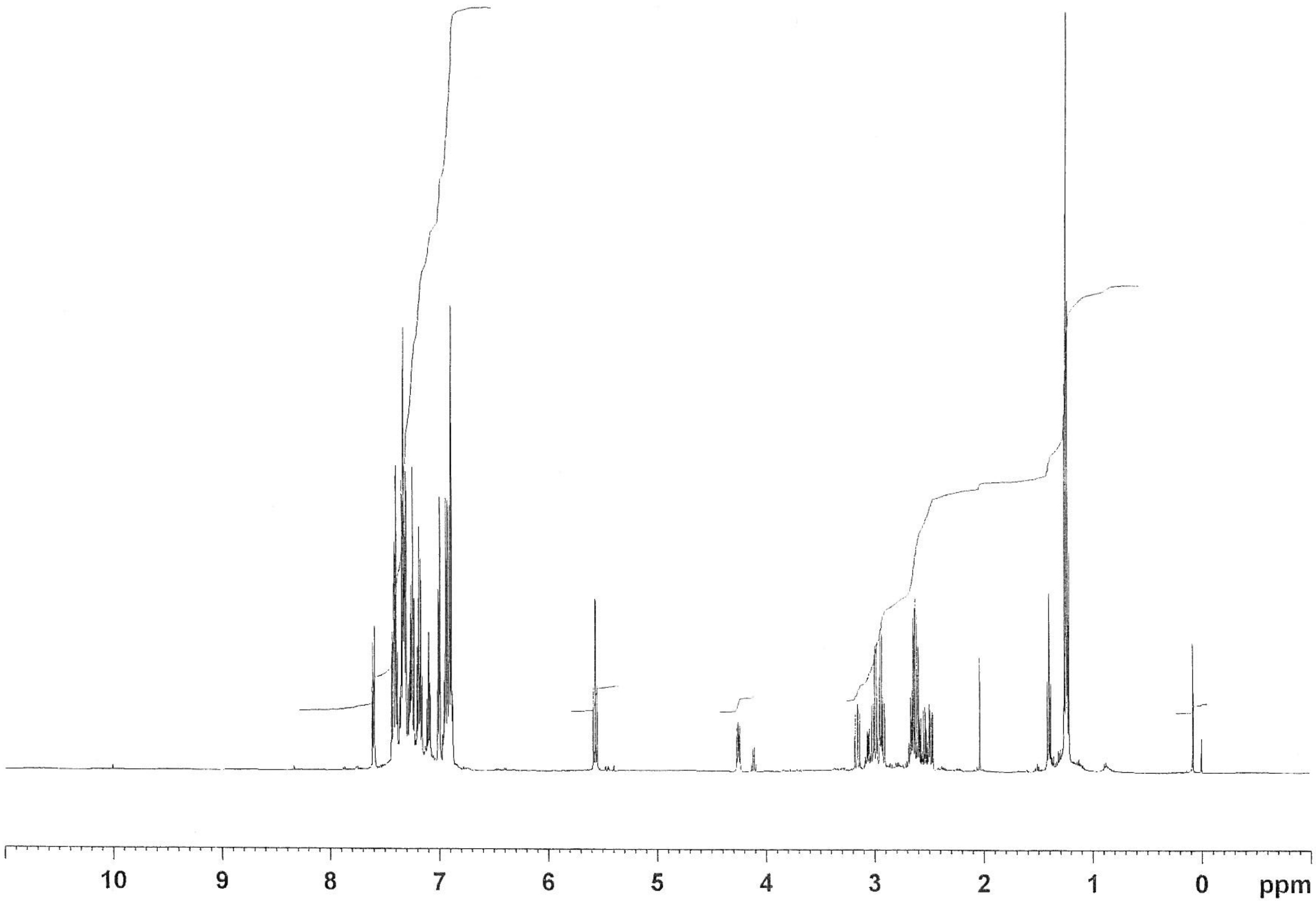



4b



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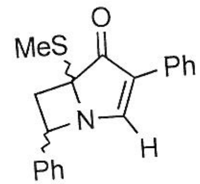
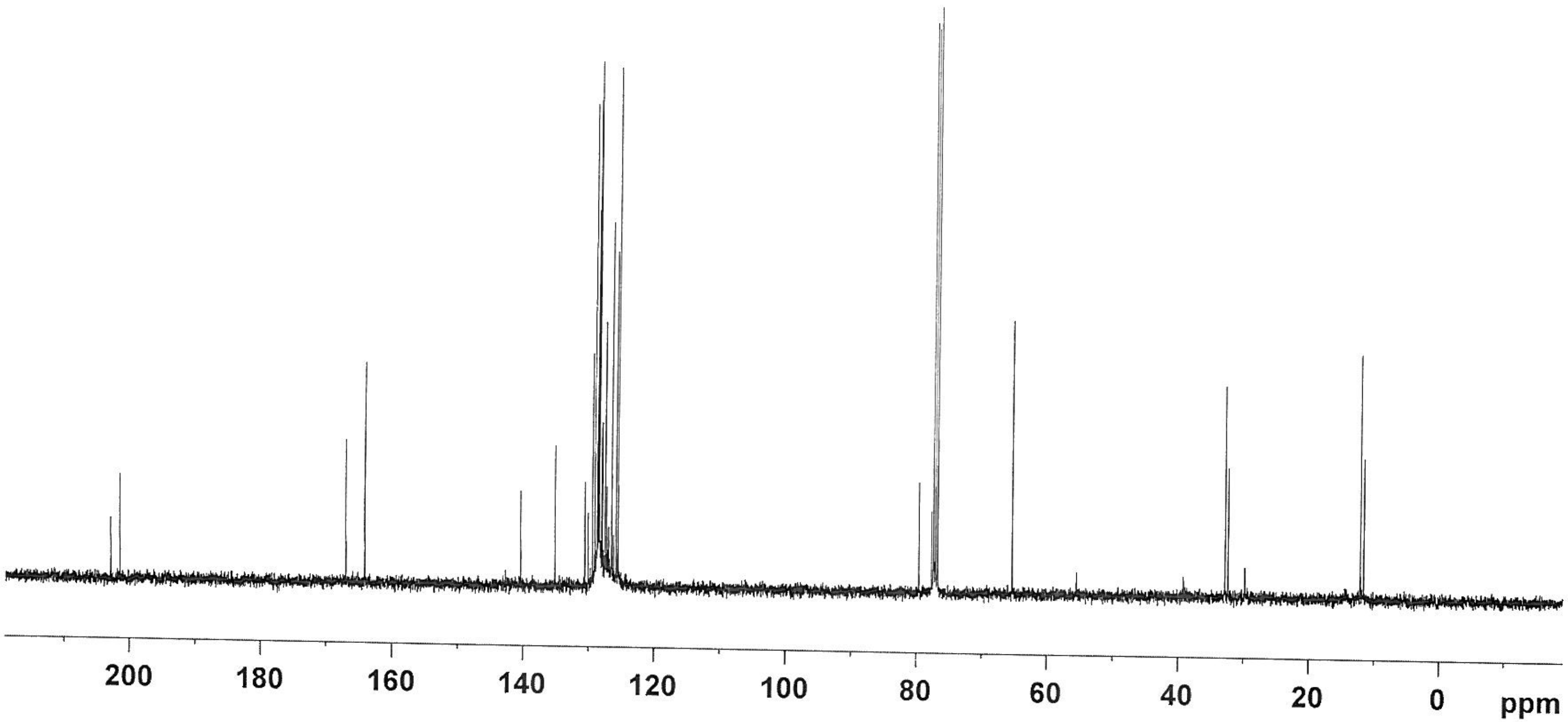
19

```
Current Data Parameters
NAME           sn13601ap
EXPNO                  1
PROCNO                 1

F2 - Acquisition Parameters
Date_           20051128
Time               10.34
INSTRUM            av500
PROBHD   5 mm PABBO BB-
PULPROG             zg30
TD                 65536
SOLVENT            CDCl3
NS                    16
DS                     2
SWH            10330.578 Hz
FIDRES          0.157632 Hz
AQ             3.1720407 sec
RG                  50.8
DW                48.400 usec
DE                  6.00 usec
TE                 293.5 K
D1            1.00000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P1                  8.40 usec
PL1                -3.00 dB
SFO1         500.1330885 MHz

F2 - Processing parameters
SI                 32768
SF           500.1300182 MHz
WDW                   EM
SSB                    0
LB                  0.30 Hz
GB                     0
PC                  1.00
```

mk 52 B



4c



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HUDDERSFIELD

```
Current Data Parameters
NAME               mk 52 B
EXPNO                    2
PROCNO                   1

F2 - Acquisition Parameters
Date_             20101101
Time                 14.06
INSTRUM             dpx400
PROBHD    5 mm QNP  1H/1
PULPROG            zgpg30
TD                   65536
SOLVENT              CDCl3
NS                     256
DS                       4
SWH              23980.814 Hz
FIDRES            0.365918 Hz
AQ               1.3664756 sec
RG                    6502
DW                  20.850 usec
DE                    6.00 usec
TE                   291.9 K
D1              2.00000000 sec
d11             0.03000000 sec
DELTA           1.89999998 sec
TD0                      8

======== CHANNEL f1 ========
NUC1                   13C
P1                    9.70 usec
PL1                  -3.00 dB
SFO1           100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2            waltz16
NUC2                    1H
PCPD2                84.00 usec
PL2                  -3.00 dB
PL12                 18.00 dB
PL13                 18.00 dB
SFO2           400.1316005 MHz

F2 - Processing parameters
SI                   32768
SF             100.6127690 MHz
WDW                     EM
SSB                      0
LB                    1.00 Hz
GB                       0
PC                    1.40
```

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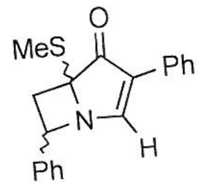
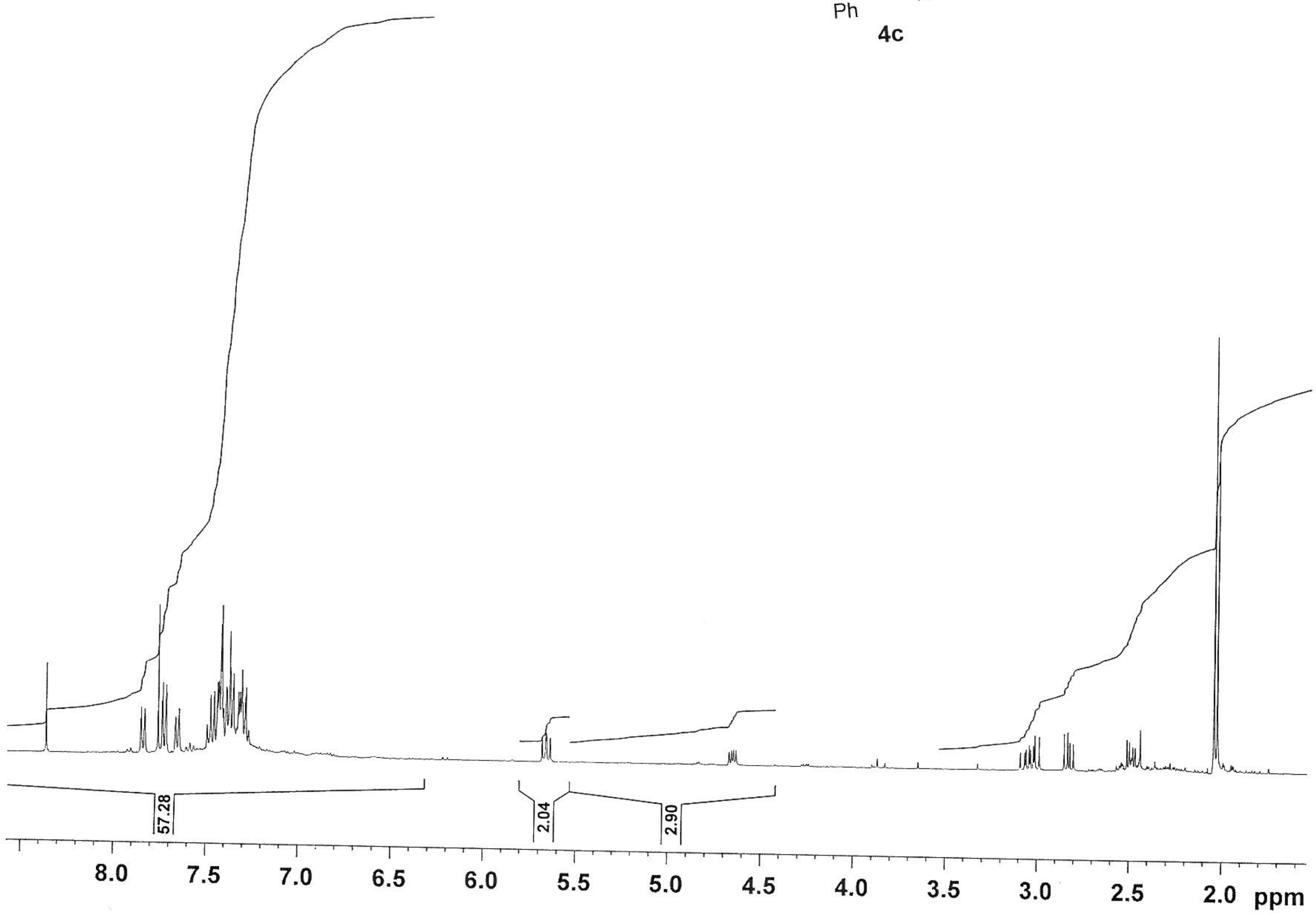
mk 52 B



4c



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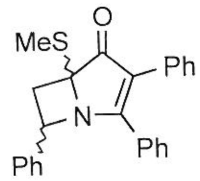
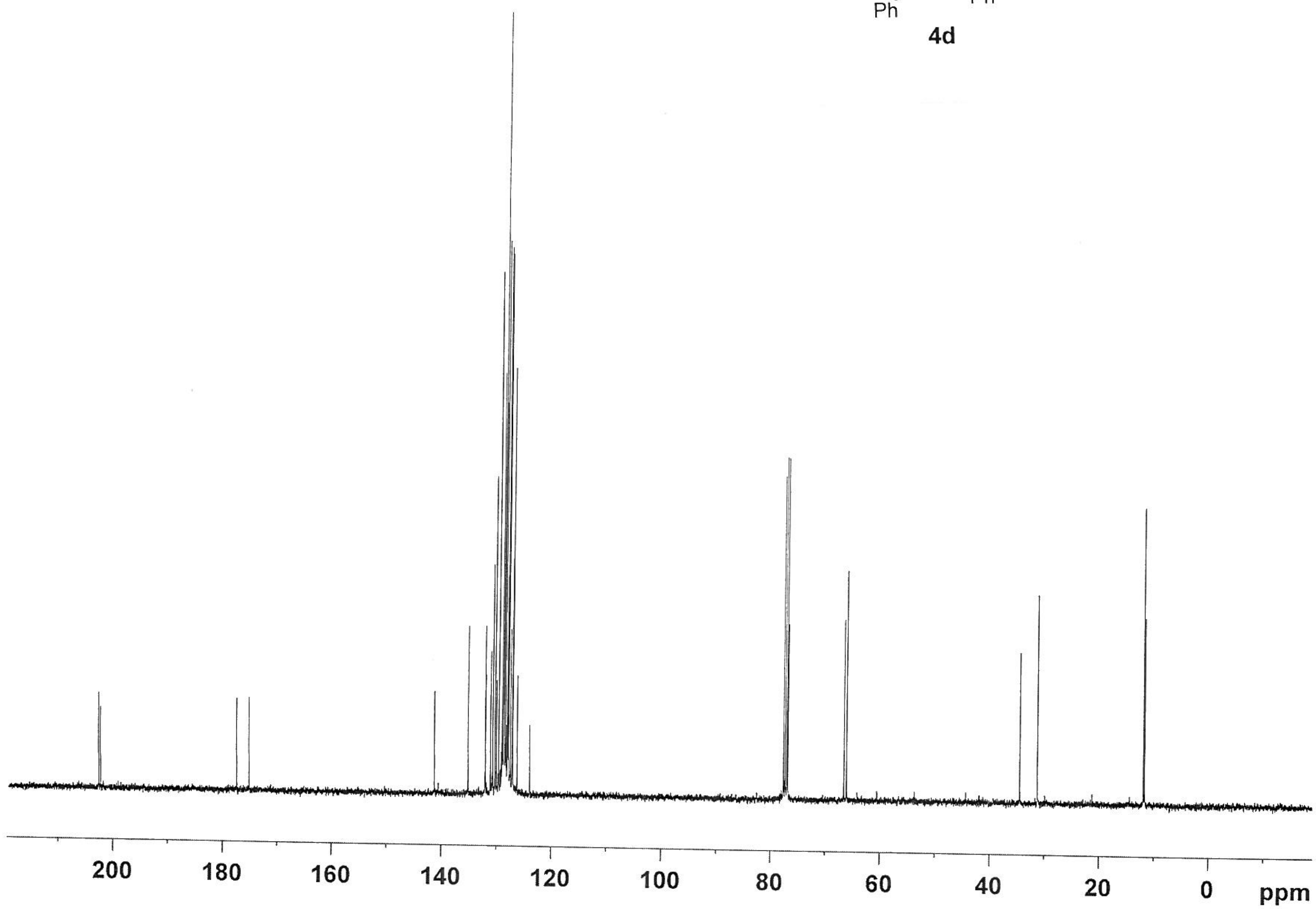
```
Current Data Parameters
NAME              mk 52 B
EXPNO                   1
PROCNO                  1

F2 - Acquisition Parameters
Date_            20101101
Time                14.04
INSTRUM            dpx400
PROBHD   5 mm QNP  1H/1
PULPROG              zg30
TD                  65536
SOLVENT             CDCl3
NS                     16
DS                      2
SWH              8278.146 Hz
FIDRES           0.126314 Hz
AQ              3.9584243 sec
RG                     64
DW                 60.400 usec
DE                   6.00 usec
TE                  291.7 K
D1             1.00000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                   1H
P1                   8.40 usec
PL1                 -3.00 dB
SFO1          400.1324710 MHz

F2 - Processing parameters
SI                  32768
SF            400.1300000 MHz
WDW                    EM
SSB                     0
LB                   0.30 Hz
GB                      0
PC                   1.00
```

21



4d




```
Current Data Parameters
NAME        4 memb. MK 8 a
EXPNO                    2
PROCNO                   1

F2 - Acquisition Parameters
Date_             20100119
Time                 15.36
INSTRUM             dpx400
PROBHD     5 mm QNP  1H/1
PULPROG            zgpg30
TD                   65536
SOLVENT              CDCl3
NS                     256
DS                       4
SWH             23980.814 Hz
FIDRES           0.365918 Hz
AQ              1.3664756 sec
RG                    6502
DW                  20.850 usec
DE                    6.00 usec
TE                   289.8 K
D1              2.00000000 sec
d11             0.03000000 sec
DELTA           1.89999998 sec
TD0                      8

======== CHANNEL f1 ========
NUC1                   13C
P1                    9.70 usec
PL1                  -3.00 dB
SFO1           100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2            waltz16
NUC2                    1H
PCPD2                84.00 usec
PL2                  -3.00 dB
PL12                 18.00 dB
PL13                 18.00 dB
SFO2           400.1316005 MHz

F2 - Processing parameters
SI                   32768
SF             100.6127544 MHz
WDW                     EM
SSB                      0
LB                    1.00 Hz
GB                       0
PC                    1.40
```

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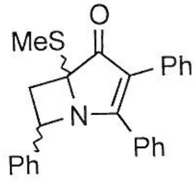
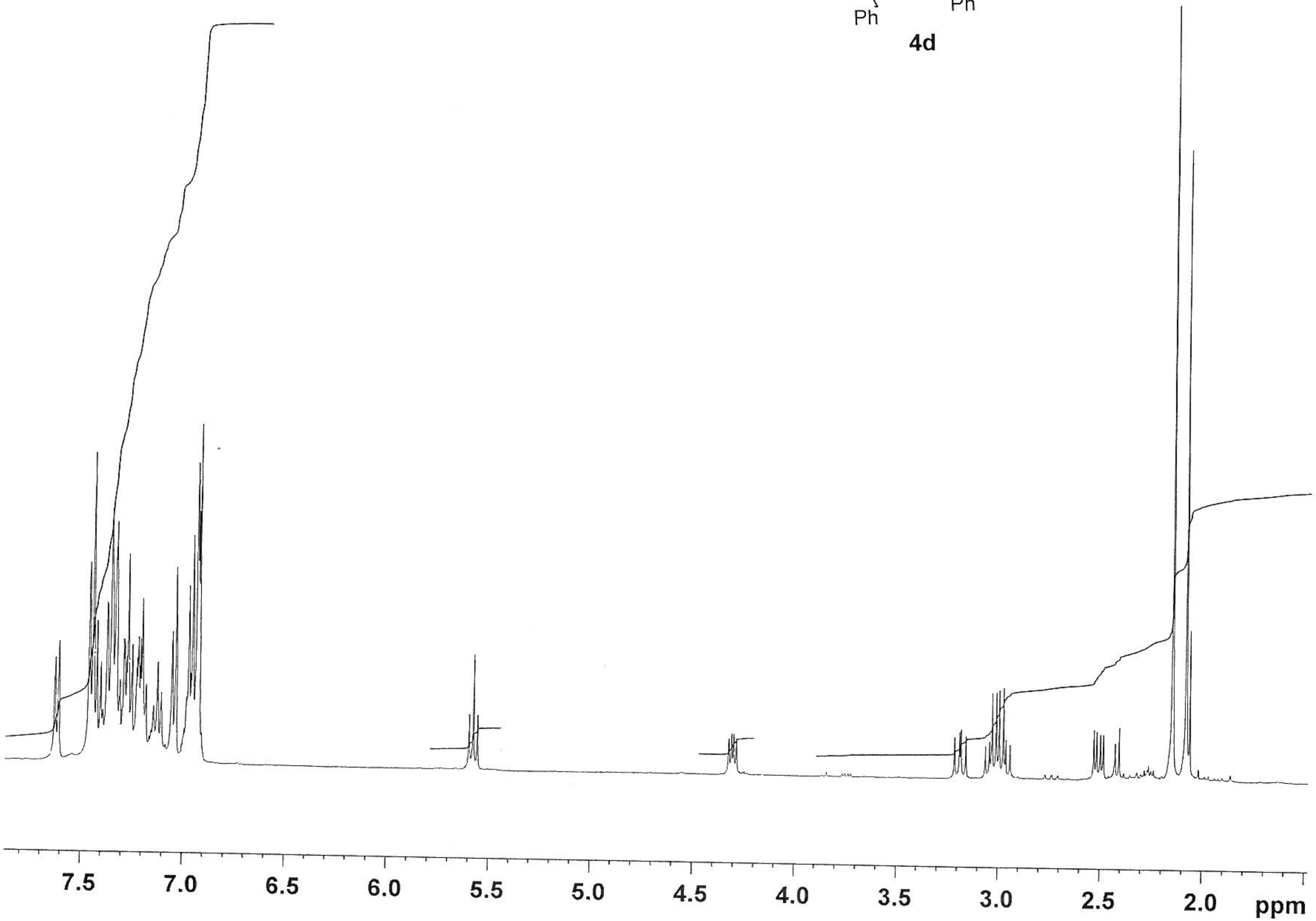


4d



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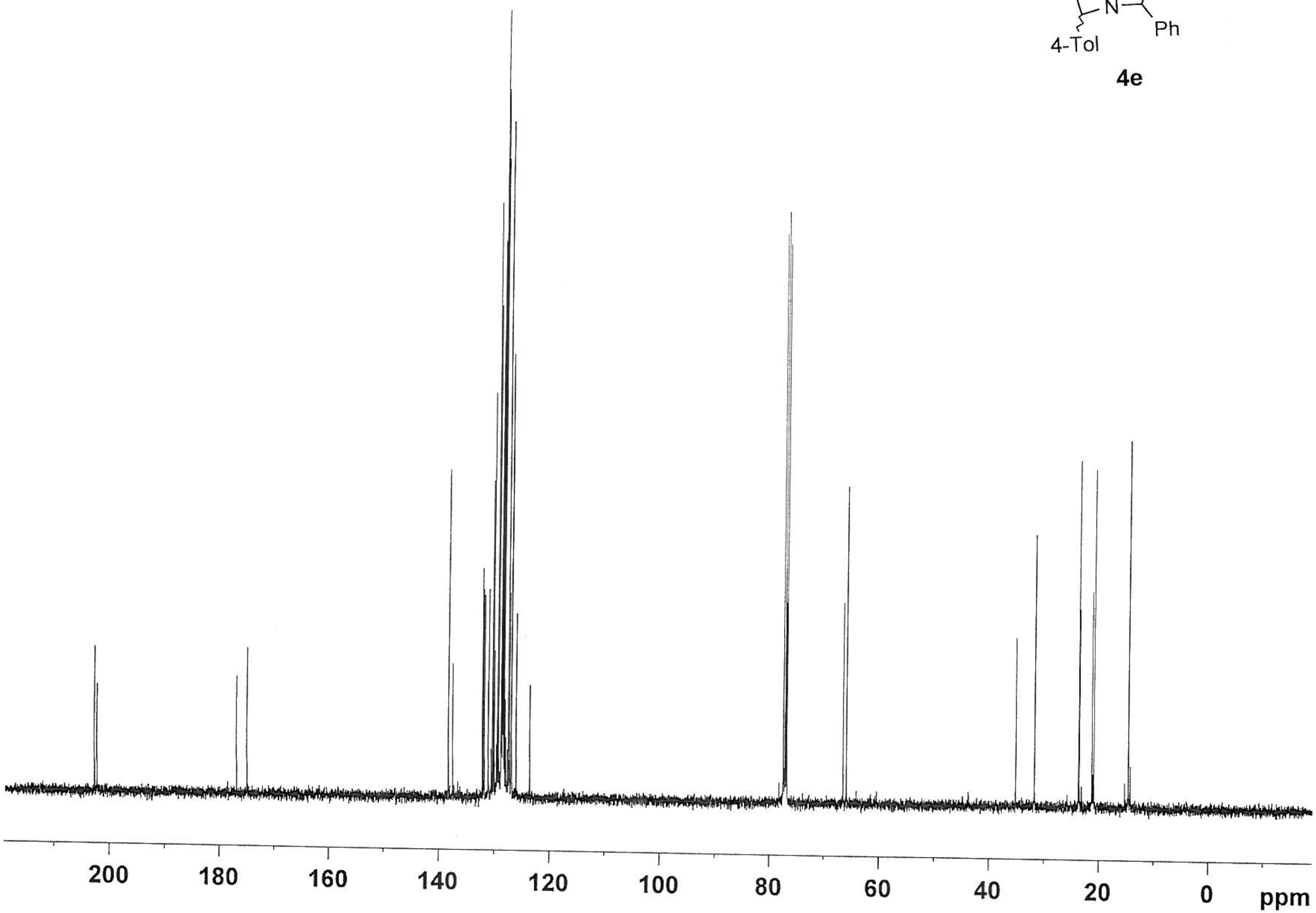
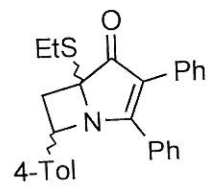
```
Current Data Parameters
NAME        4 memb. MK 8 a
EXPNO                    1
PROCNO                   1

F2 - Acquisition Parameters
Date_             20100119
Time                 15.34
INSTRUM             dpx400
PROBHD     5 mm QNP  1H/1
PULPROG               zg30
TD                   65536
SOLVENT              CDCl3
NS                      16
DS                       2
SWH               8278.146 Hz
FIDRES            0.126314 Hz
AQ               3.9584243 sec
RG                      64
DW                  60.400 usec
DE                    6.00 usec
TE                   289.6 K
D1              1.00000000 sec
TD0                      1

======== CHANNEL f1 ========
NUC1                    1H
P1                    8.40 usec
PL1                  -3.00 dB
SFO1           400.1324710 MHz

F2 - Processing parameters
SI                   32768
SF             400.1300020 MHz
WDW                     EM
SSB                      0
LB                    0.30 Hz
GB                       0
PC                    1.00
```

23





4e

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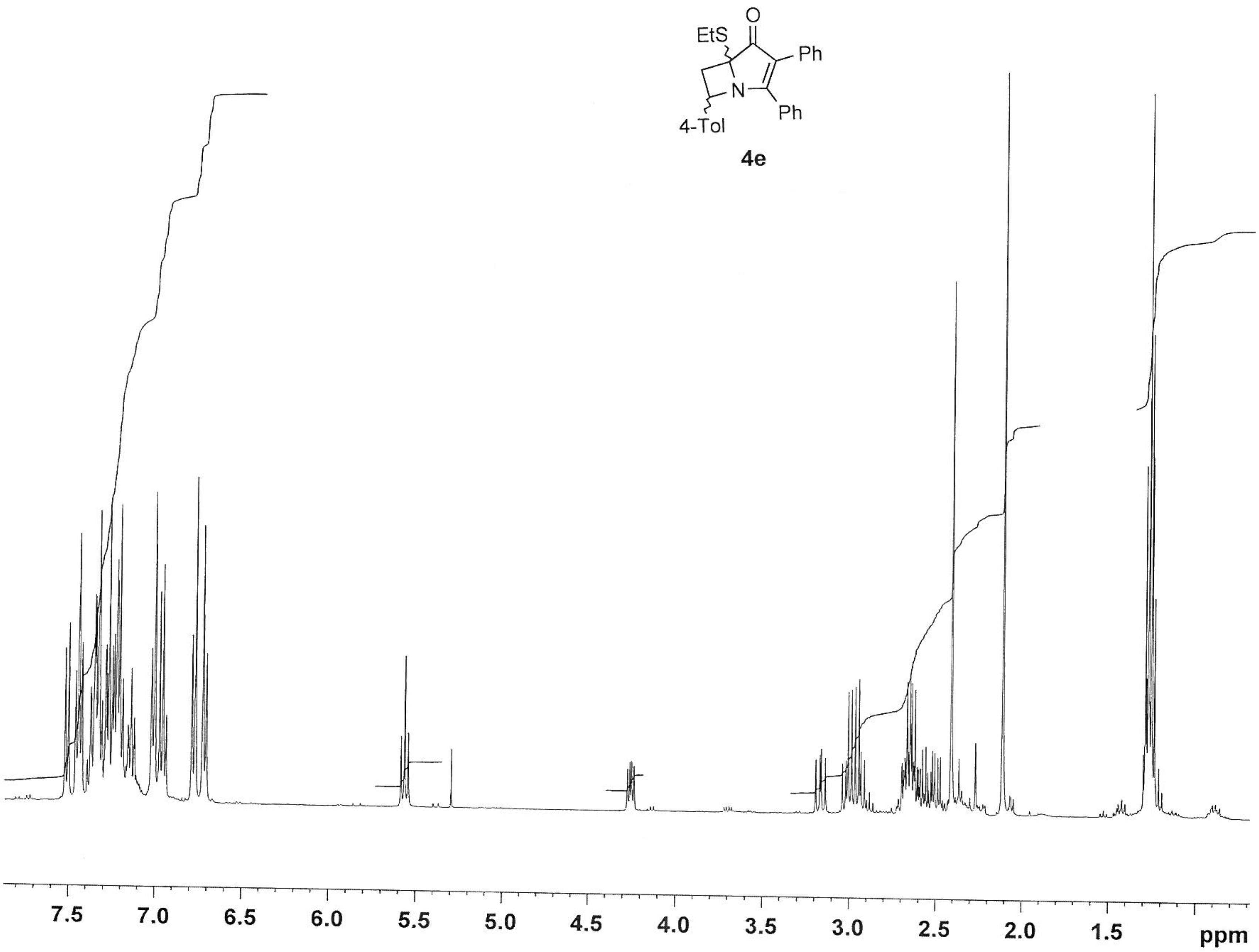
HUDDERSFIELD

```
Current Data Parameters
NAME              MK 26
EXPNO                 2
PROCNO                1

F2 - Acquisition Parameters
Date_          20100504
Time              14.06
INSTRUM          dpx400
PROBHD   5 mm QNP 1H/1
PULPROG         zgpg30
TD               65536
SOLVENT          CDCl3
NS                 256
DS                   4
SWH          23980.814 Hz
FIDRES        0.365918 Hz
AQ           1.3664756 sec
RG             14596.5
DW              20.850 usec
DE                6.00 usec
TE               290.9 K
D1          2.00000000 sec
d11         0.03000000 sec
DELTA       1.89999998 sec
TD0                  8

======== CHANNEL f1 ========
NUC1               13C
P1                9.70 usec
PL1              -3.00 dB
SFO1       100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2        waltz16
NUC2                1H
PCPD2            84.00 usec
PL2              -3.00 dB
PL12             18.00 dB
PL13             18.00 dB
SFO2       400.1316005 MHz

F2 - Processing parameters
SI               32768
SF         100.6127690 MHz
WDW                 EM
SSB                  0
LB                1.00 Hz
GB                   0
PC                1.40
```

24



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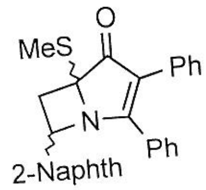
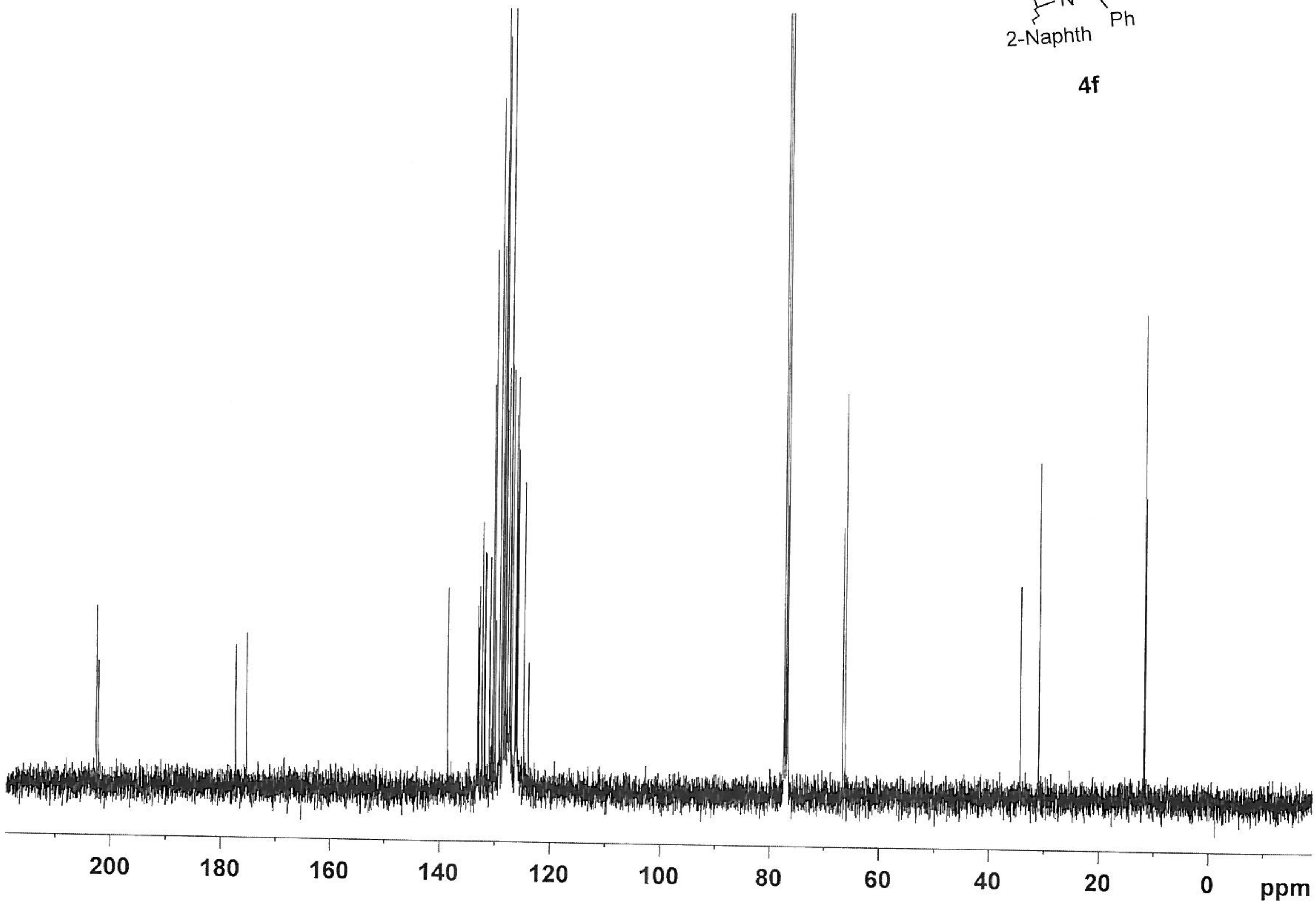
Current Data Parameters	
NAME	MK 26
EXPNO	1
PROCNO	1
F2 - Acquisition Parameters	
Date_	20100504
Time	14.04
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	2
SWH	8278.146 Hz
FIDRES	0.126314 Hz
AQ	3.9584243 sec
RG	64
DW	60.400 usec
DE	6.00 usec
TE	290.6 K
D1	1.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	8.40 usec
PL1	-3.00 dB
SFO1	400.1324710 MHz
F2 - Processing parameters	
SI	32768
SF	400.1300000 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

25



4f



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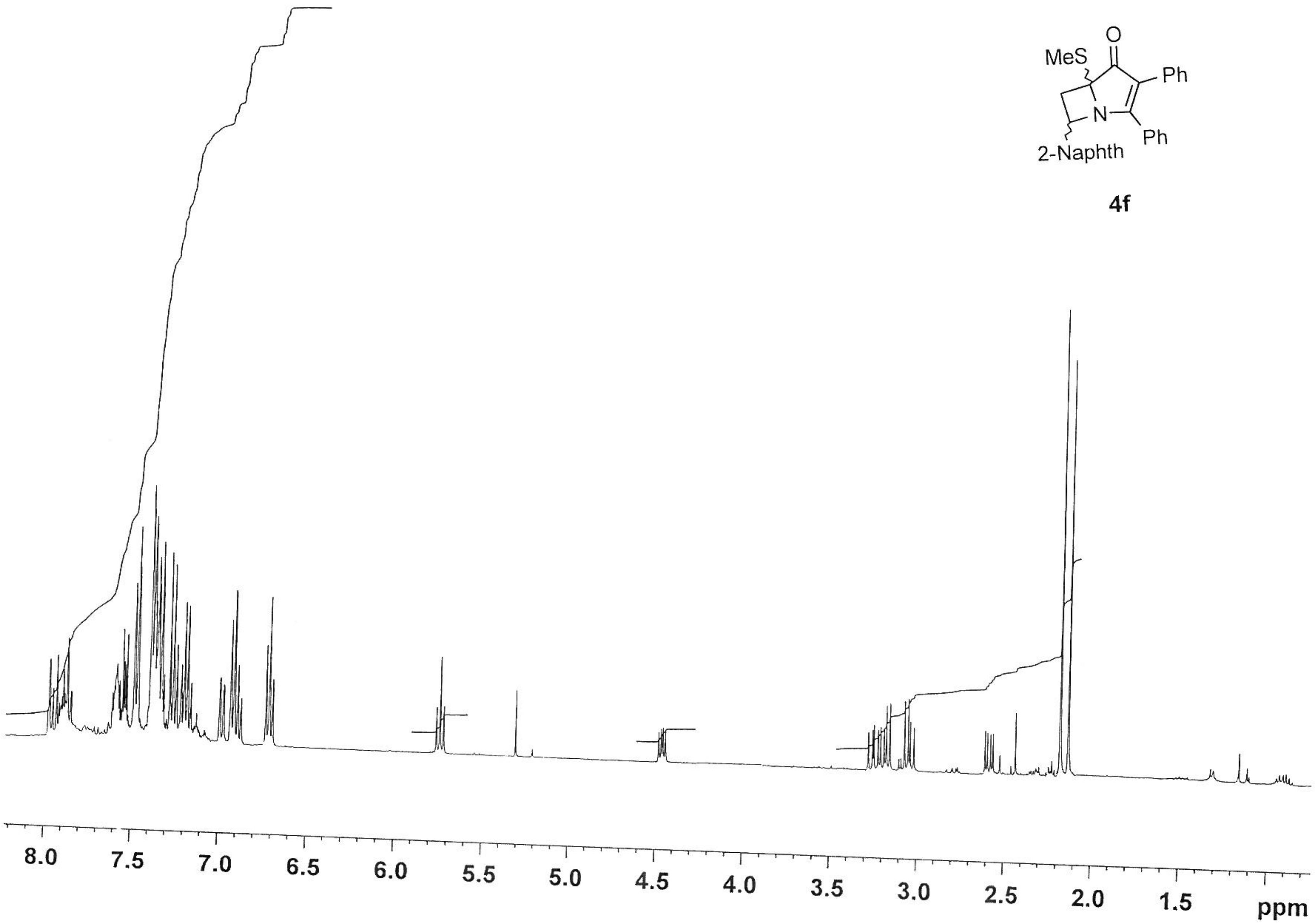
```
Current Data Parameters
NAME              MK 23 rep
EXPNO                     2
PROCNO                    1

F2 - Acquisition Parameters
Date_              20100602
Time                  12.52
INSTRUM              dpx400
PROBHD     5 mm QNP  1H/1
PULPROG             zgpg30
TD                   65536
SOLVENT              CDCl3
NS                     256
DS                       4
SWH              23980.814 Hz
FIDRES            0.365918 Hz
AQ               1.3664756 sec
RG                 14596.5
DW                  20.850 usec
DE                    6.00 usec
TE                   292.9 K
D1              2.00000000 sec
d11             0.03000000 sec
DELTA           1.89999998 sec
TD0                      8

======== CHANNEL f1 ========
NUC1                   13C
P1                    9.70 usec
PL1                  -3.00 dB
SFO1           100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2            waltz16
NUC2                    1H
PCPD2                84.00 usec
PL2                  -3.00 dB
PL12                 18.00 dB
PL13                 18.00 dB
SFO2           400.1316005 MHz

F2 - Processing parameters
SI                   32768
SF             100.6127690 MHz
WDW                     EM
SSB                      0
LB                    1.00 Hz
GB                       0
PC                    1.40
```

26



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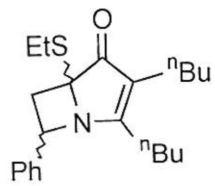
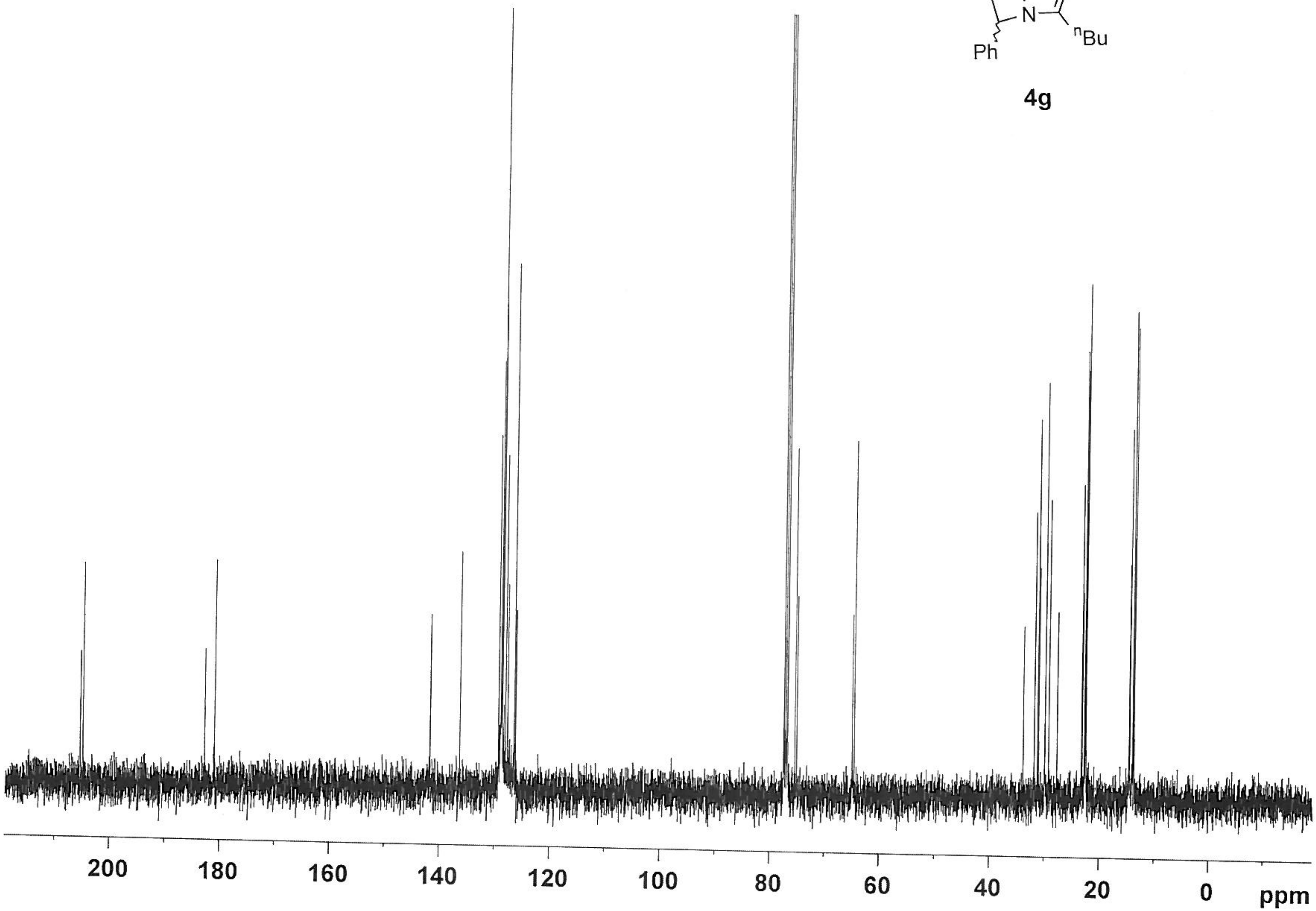
```
Current Data Parameters
NAME          MK 23 rep
EXPNO                 1
PROCNO                1

F2 - Acquisition Parameters
Date_          20100602
Time              12.49
INSTRUM          dpx400
PROBHD   5 mm QNP  1H/1
PULPROG            zg30
TD                65536
SOLVENT           CDCl3
NS                   16
DS                    2
SWH            8278.146 Hz
FIDRES         0.126314 Hz
AQ            3.9584243 sec
RG                  114
DW               60.400 usec
DE                 6.00 usec
TE                292.6 K
D1           1.00000000 sec
TD0                   1

======== CHANNEL f1 ========
NUC1                 1H
P1                 8.40 usec
PL1               -3.00 dB
SFO1        400.1324710 MHz

F2 - Processing parameters
SI                32768
SF          400.1300000 MHz
WDW                  EM
SSB                   0
LB                 0.30 Hz
GB                    0
PC                 1.00
```

27



4g



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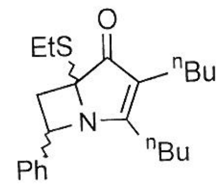
```
Current Data Parameters
NAME              mK 40 A
EXPNO                   2
PROCNO                  1

F2 - Acquisition Parameters
Date_            20100721
Time                13.02
INSTRUM            dpx400
PROBHD     5 mm QNP  1H/1
PULPROG           zgpg30
TD                 65536
SOLVENT            CDCl3
NS                   256
DS                     4
SWH            23980.814 Hz
FIDRES          0.365918 Hz
AQ             1.3664756 sec
RG                9195.2
DW                20.850 usec
DE                  6.00 usec
TE                 293.4 K
D1            2.00000000 sec
d11           0.03000000 sec
DELTA         1.89999998 sec
TD0                    8

======== CHANNEL f1 ========
NUC1                 13C
P1                  9.70 usec
PL1                -3.00 dB
SFO1         100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2          waltz16
NUC2                  1H
PCPD2              84.00 usec
PL2                -3.00 dB
PL12               18.00 dB
PL13               18.00 dB
SFO2         400.1316005 MHz

F2 - Processing parameters
SI                 32768
SF           100.6127690 MHz
WDW                   EM
SSB                    0
LB                  1.00 Hz
GB                     0
PC                  1.40
```

mK 40 A



4g

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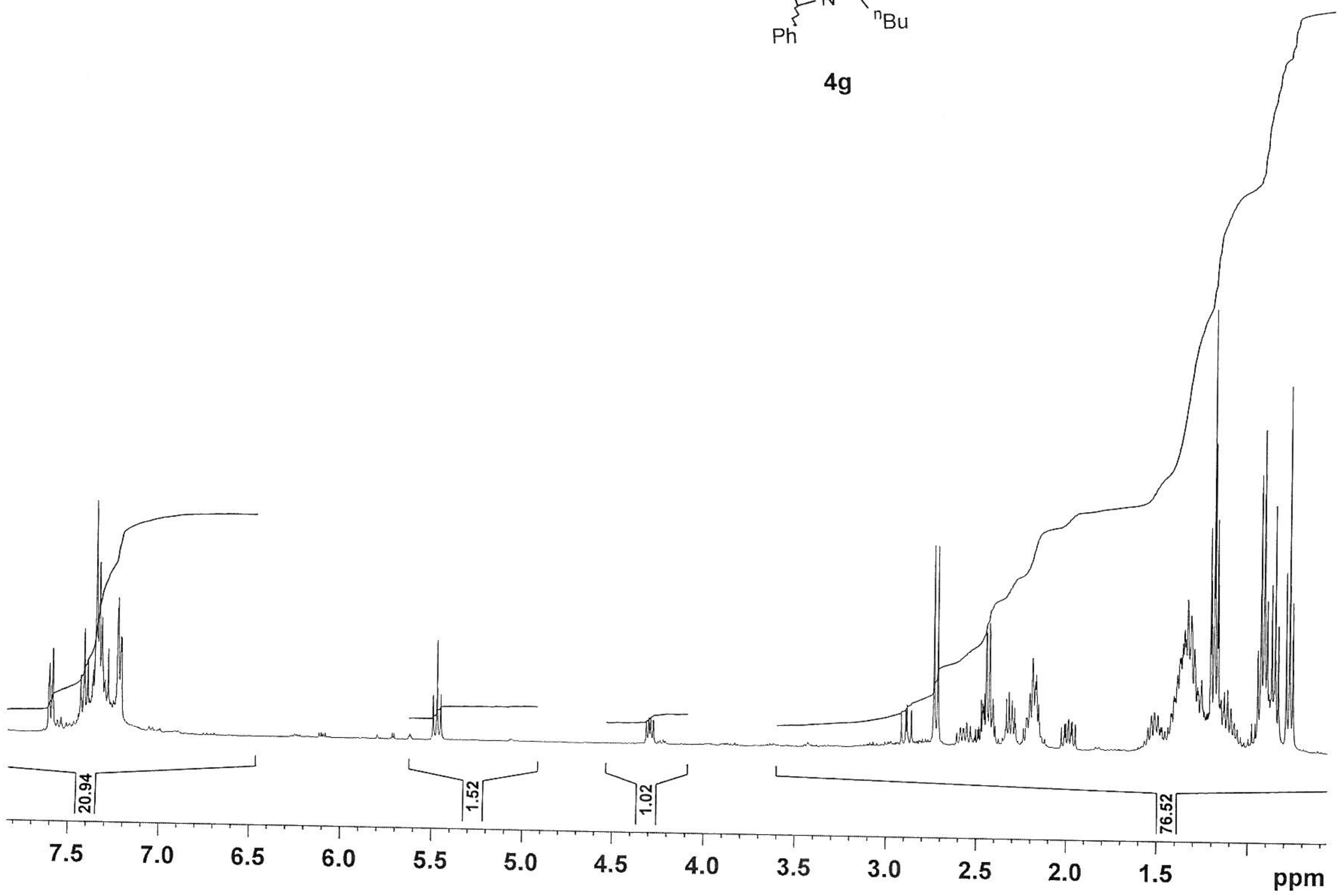
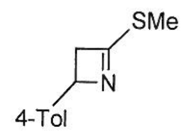
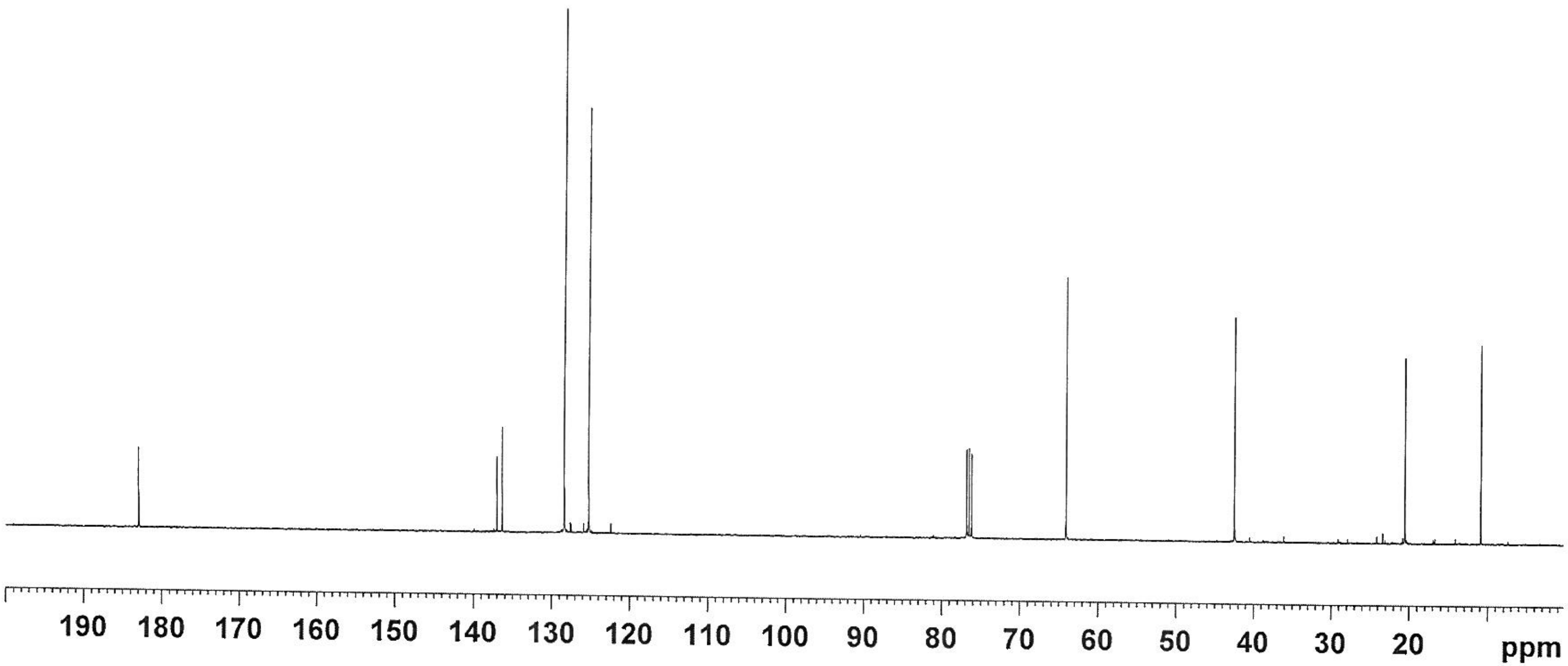
```
Current Data Parameters
NAME              mK 40 A
EXPNO                   1
PROCNO                  1

F2 - Acquisition Parameters
Date_            20100721
Time                12.59
INSTRUM            dpx400
PROBHD   5 mm QNP    1H/1
PULPROG              zg30
TD                  65536
SOLVENT             CDCl3
NS                     16
DS                      2
SWH              8278.146 Hz
FIDRES           0.126314 Hz
AQ              3.9584243 sec
RG                   40.3
DW                 60.400 usec
DE                   6.00 usec
TE                  293.2 K
D1             1.00000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                   1H
P1                   8.40 usec
PL1                 -3.00 dB
SFO1          400.1324710 MHz

F2 - Processing parameters
SI                  32768
SF            400.1300000 MHz
WDW                    EM
SSB                     0
LB                   0.30 Hz
GB                      0
PC                   1.00
```





5a



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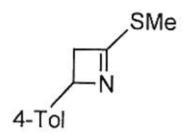
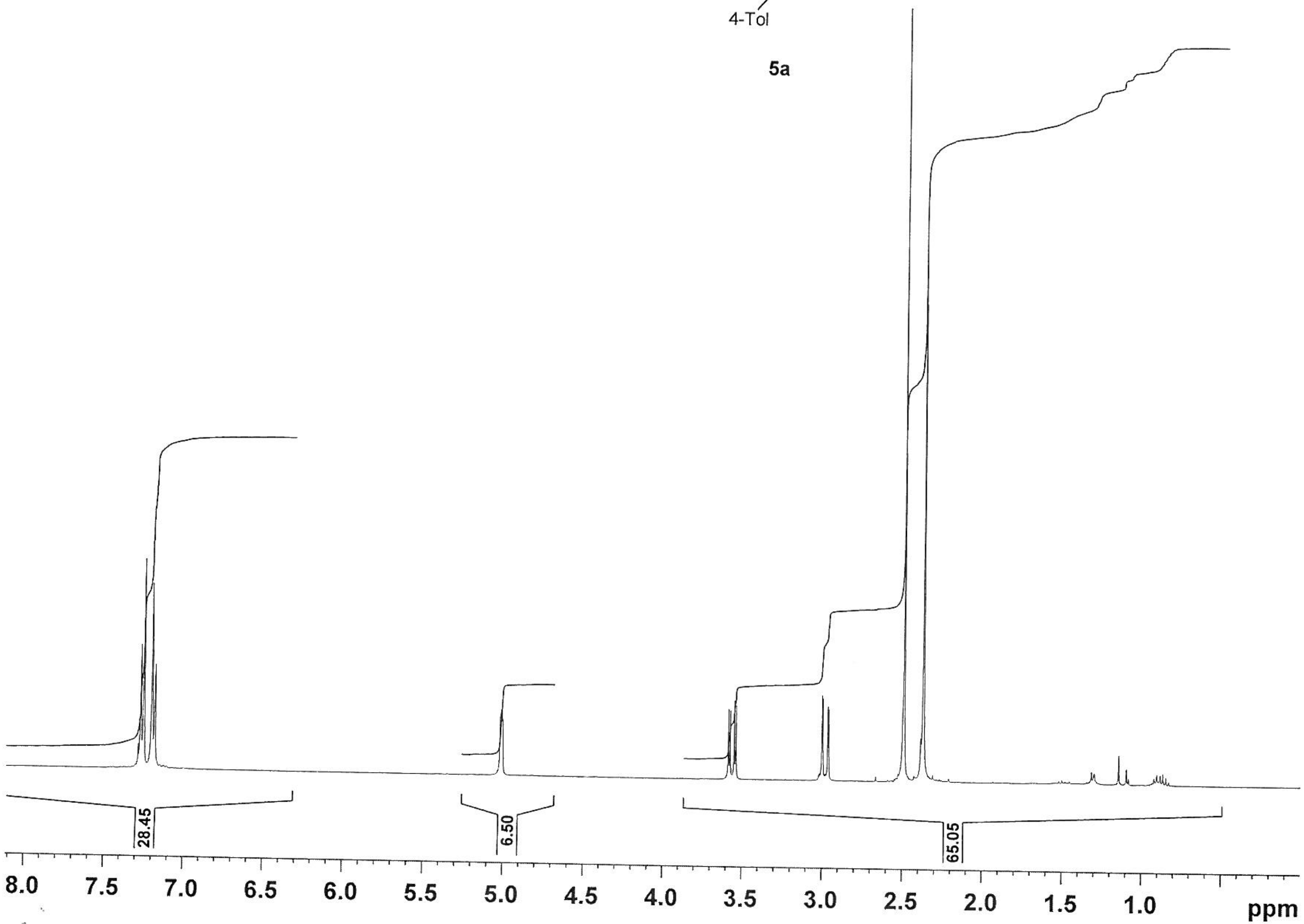
```
Current Data Parameters
NAME              MK 14 E
EXPNO                   2
PROCNO                  1

F2 - Acquisition Parameters
Date_            20111208
Time                18.22
INSTRUM            dpx400
PROBHD    5 mm QNP  1H/1
PULPROG           zgpg30
TD                 65536
SOLVENT            CDCl3
NS                   256
DS                     4
SWH            23980.814 Hz
FIDRES          0.365918 Hz
AQ             1.3664756 sec
RG                  6502
DW                20.850 usec
DE                  6.00 usec
TE                 291.0 K
D1            2.00000000 sec
d11           0.03000000 sec
DELTA         1.89999998 sec
TD0                    8

======== CHANNEL f1 ========
NUC1                 13C
P1                  9.70 usec
PL1                -3.00 dB
SFO1         100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2          waltz16
NUC2                  1H
PCPD2              84.00 usec
PL2                -3.00 dB
PL12               16.08 dB
PL13               18.00 dB
SFO2         400.1316005 MHz

F2 - Processing parameters
SI                 32768
SF           100.6128387 MHz
WDW                   EM
SSB                    0
LB                  1.00 Hz
GB                     0
PC                  1.40
```



5a



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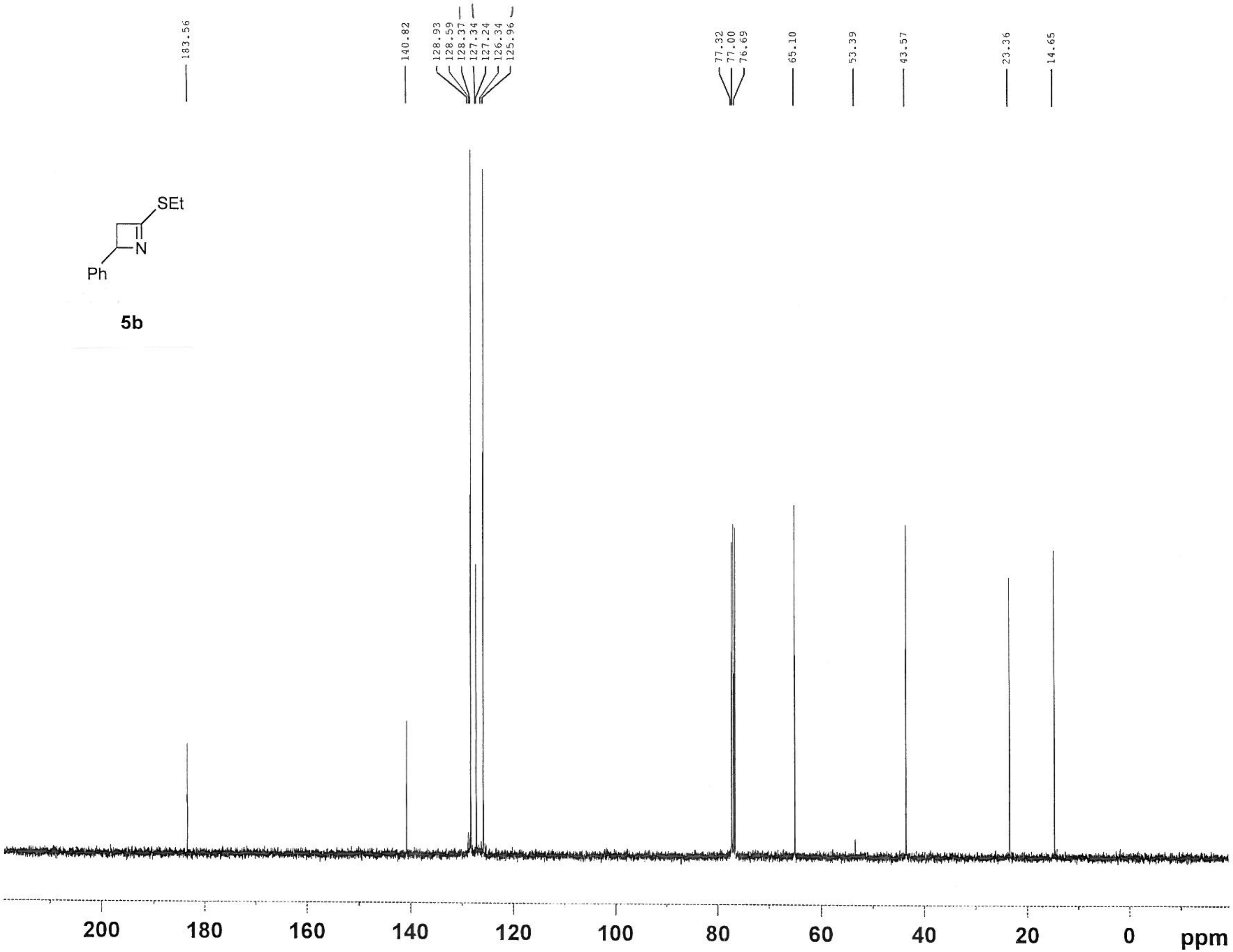
```
Current Data Parameters
NAME              MK 14 E
EXPNO                   1
PROCNO                  1

F2 - Acquisition Parameters
Date_            20111208
Time_               18.19
INSTRUM            dpx400
PROBHD     5 mm QNP  1H/1
PULPROG              zg30
TD                  65536
SOLVENT             CDCl3
NS                     16
DS                      2
SWH              8278.146 Hz
FIDRES           0.126314 Hz
AQ              3.9584243 sec
RG                     64
DW                 60.400 usec
DE                   6.00 usec
TE                  290.6 K
D1             1.00000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                   1H
P1                   8.40 usec
PL1                 -3.00 dB
SFO1          400.1324710 MHz

F2 - Processing parameters
SI                  32768
SF            400.1300000 MHz
WDW                    EM
SSB                     0
LB                   0.30 Hz
GB                      0
PC                   1.00
```

13C H-decoupled



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```
Current Data Parameters
NAME          sn13577ap
EXPNO                 2
PROCNO                1

F2 - Acquisition Parameters
Date_          20051121
Time              13.55
INSTRUM          dpx400
PROBHD   5 mm QNP  1H 1
PULPROG          zgpg30
TD                65536
SOLVENT           CDCl3
NS                  108
DS                    4
SWH           23980.814 Hz
FIDRES         0.365918 Hz
AQ            1.3664756 sec
RG                 6502
DW               20.850 usec
DE                 6.00 usec
TE                291.5 K
D1           2.00000000 sec
d11          0.03000000 sec
DELTA        1.89999998 sec
TD0                   8

======== CHANNEL f1 ========
NUC1                13C
P1                 9.70 usec
PL1               -3.00 dB
SFO1        100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2         waltz16
NUC2                 1H
PCPD2             84.00 usec
PL2               -3.00 dB
PL12              18.00 dB
PL13              18.00 dB
SFO2        400.1316005 MHz

F2 - Processing parameters
SI                32768
SF          100.6127805 MHz
WDW                  EM
SSB                   0
LB                 1.00 Hz
GB                    0
PC                 1.40
```

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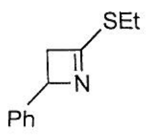
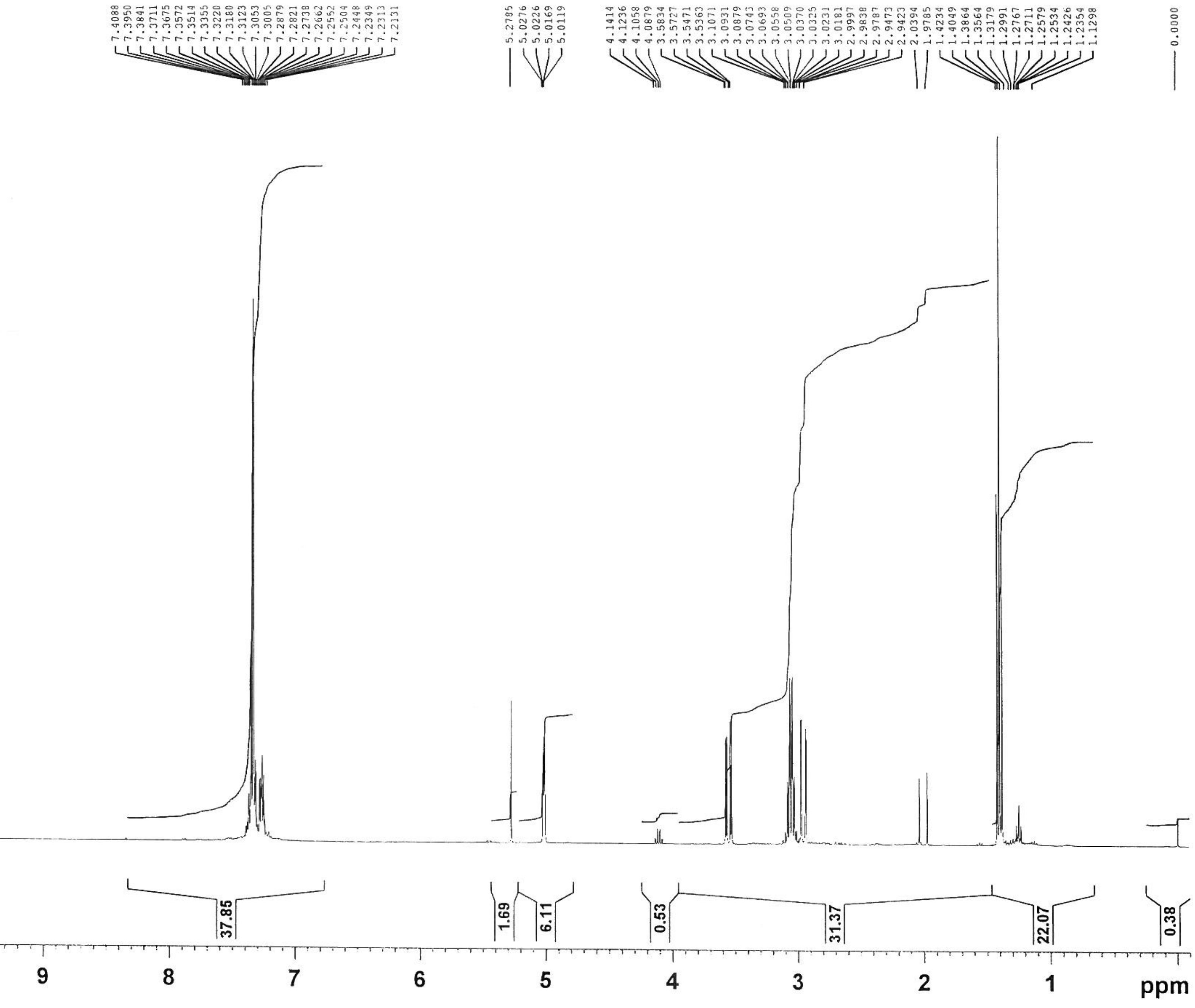
Spec.no.13577:Arnaud Pitard



5b



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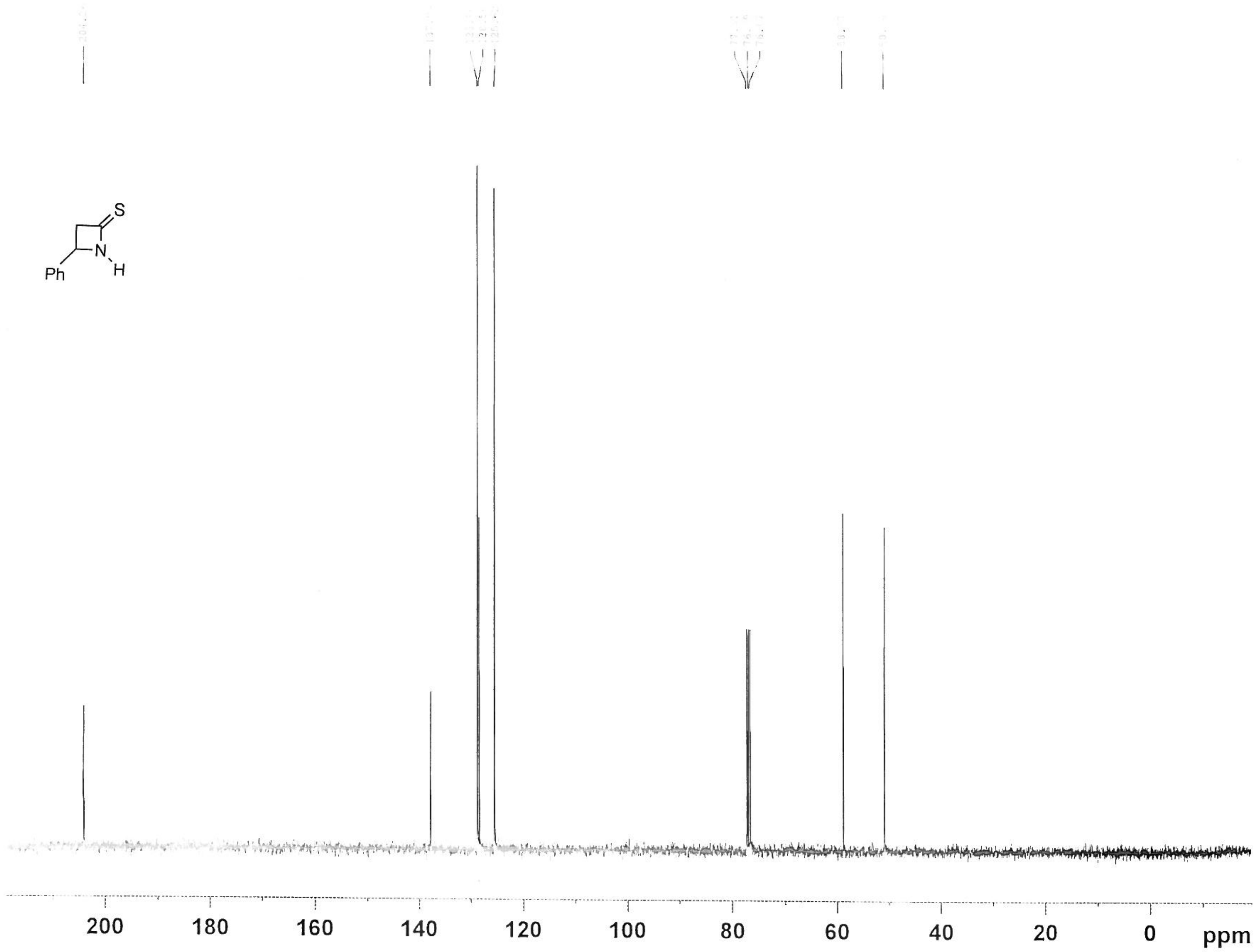
```
Current Data Parameters
NAME          sn13577ap
EXPNO                 1
PROCNO                1

F2 - Acquisition Parameters
Date_          20051121
Time              13.51
INSTRUM          dpx400
PROBHD   5 mm QNP  1H 1
PULPROG            zg30
TD                65536
SOLVENT           CDCl3
NS                   16
DS                    2
SWH            8278.146 Hz
FIDRES         0.126314 Hz
AQ            3.9584243 sec
RG                 90.5
DW               60.400 usec
DE                 6.00 usec
TE                291.2 K
D1           1.00000000 sec
TD0                   1

======== CHANNEL f1 ========
NUC1                 1H
P1                 8.40 usec
PL1               -3.00 dB
SFO1        400.1324710 MHz

F2 - Processing parameters
SI                32768
SF          400.1300113 MHz
WDW                  EM
SSB                   0
LB                 0.30 Hz
GB                    0
PC                 1.00
```

33a

13C H-decoupled



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336

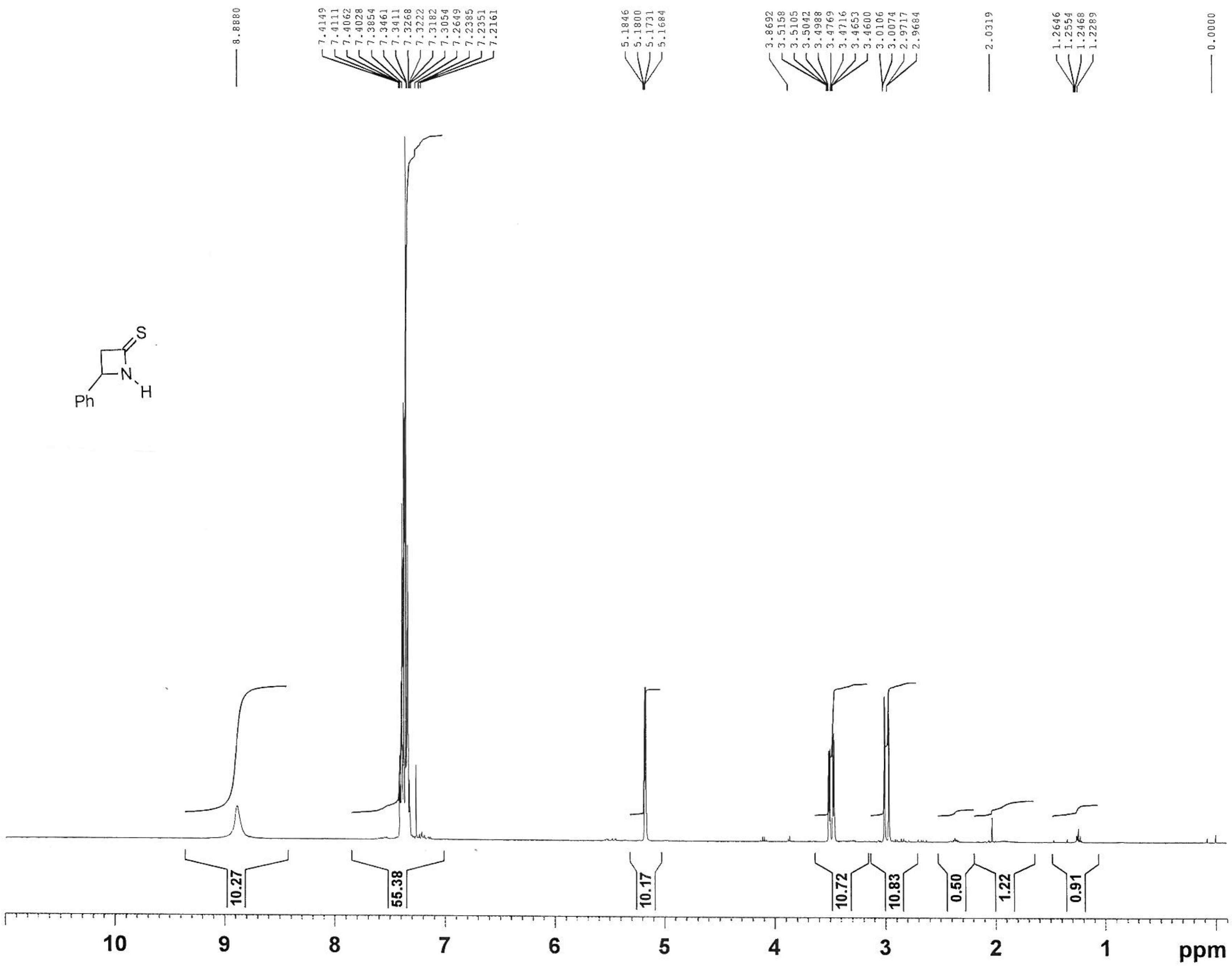
```
Current Data Parameters
NAME             sn13684ap
EXPNO                    3
PROCNO                   1

F2 - Acquisition Parameters
Date_             20051212
Time                 13.50
INSTRUM             dpx400
PROBHD      5 mm QNP  1H/1
PULPROG            zgpg30
TD                   65536
SOLVENT              CDCl3
NS                      32
DS                       4
SWH             23980.814 Hz
FIDRES           0.365918 Hz
AQ              1.3664756 sec
RG                     362
DW                  20.850 usec
DE                    6.00 usec
TE                   292.2 K
D1              2.00000000 sec
d11             0.03000000 sec
DELTA           1.89999998 sec
TD0                      8

======== CHANNEL f1 ========
NUC1                   13C
P1                    9.70 usec
PL1                  -3.00 dB
SFO1           100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2            waltz16
NUC2                    1H
PCPD2                84.00 usec
PL2                  -3.00 dB
PL12                 18.00 dB
PL13                 18.00 dB
SFO2           400.1316005 MHz

F2 - Processing parameters
SI                   32768
SF             100.6127875 MHz
WDW                     EM
SSB                      0
LB                    1.00 Hz
GB                       0
PC                    1.40
```



33c

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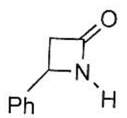
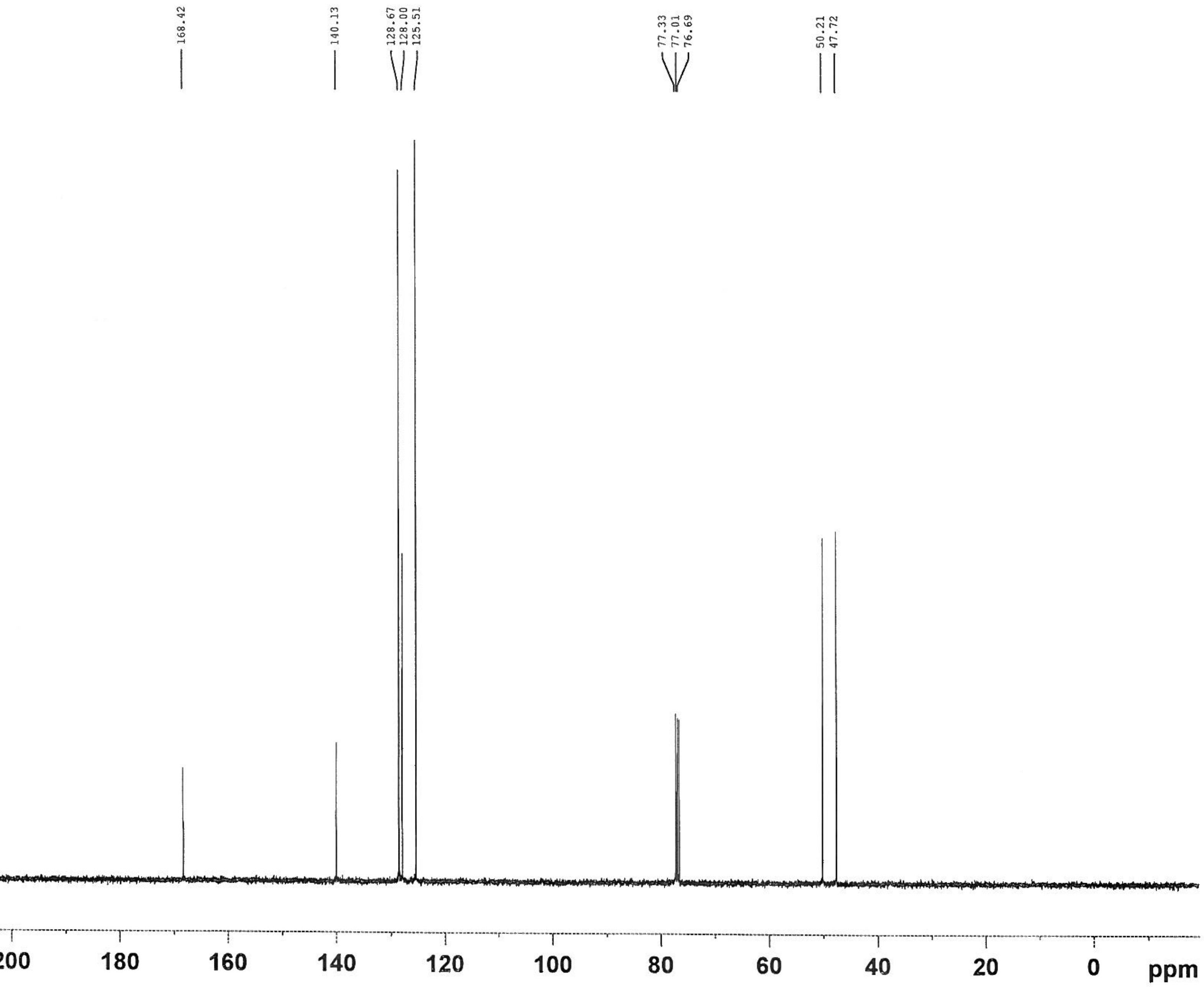
HUDDERSFIELD

```
Current Data Parameters
NAME           sn13703ap
EXPNO                  1
PROCNO                 1

F2 - Acquisition Parameters
Date_           20051214
Time               14.21
INSTRUM           dpx400
PROBHD    5 mm QNP  1H/1
PULPROG             zg30
TD                 65536
SOLVENT            CDCl3
NS                    16
DS                     2
SWH             8278.146 Hz
FIDRES          0.126314 Hz
AQ             3.9584243 sec
RG                   114
DW                60.400 usec
DE                  6.00 usec
TE                 294.7 K
D1            1.00000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P1                  8.40 usec
PL1                -3.00 dB
SFO1         400.1324710 MHz

F2 - Processing parameters
SI                 32768
SF           400.1300074 MHz
WDW                   no
SSB                    0
LB                  0.00 Hz
GB                     0
PC                  1.00
```

13C H-decoupled

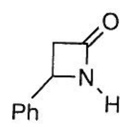


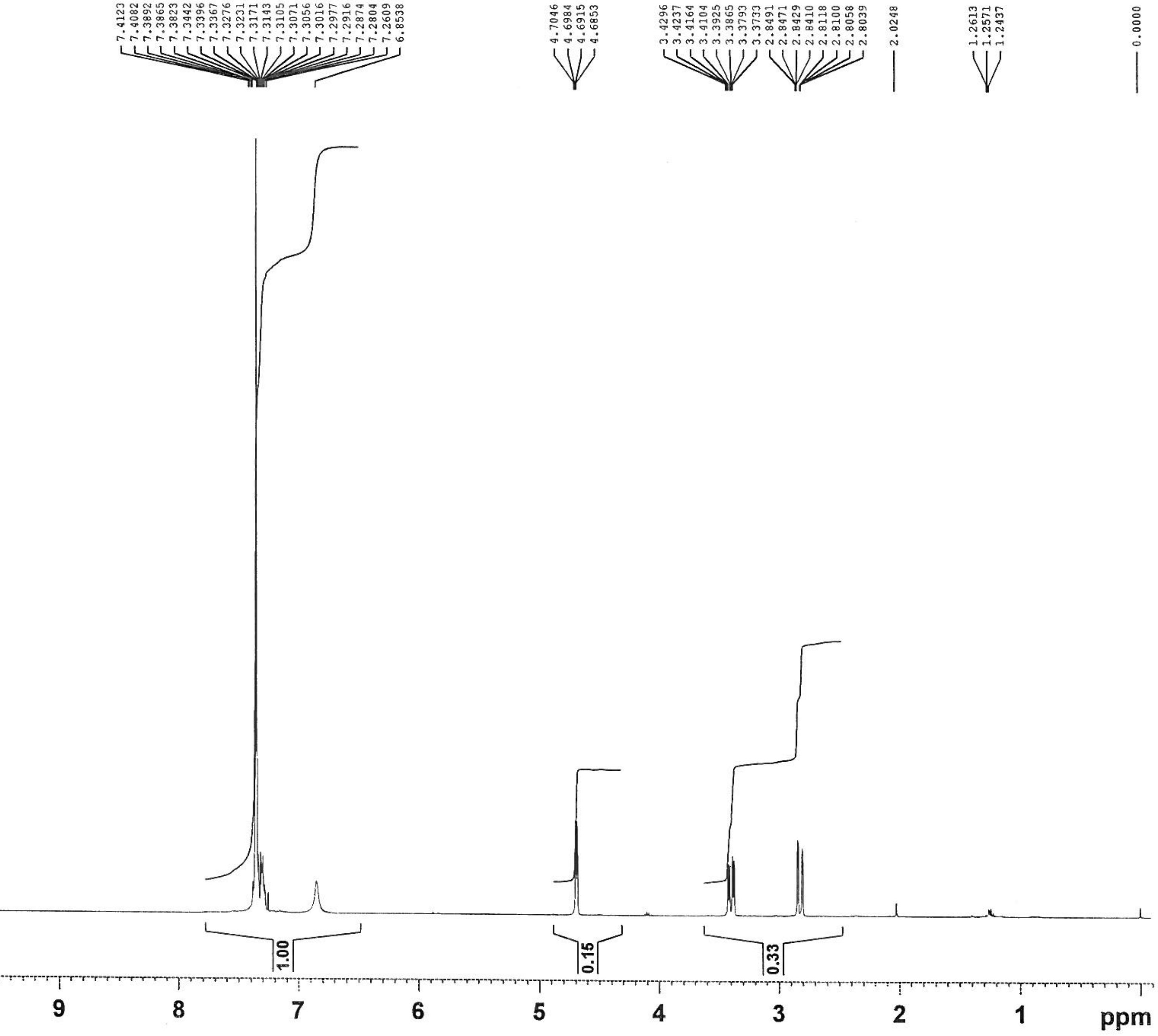


(33d)

University of HUDDERSFIELD

```
Current Data Parameters
NAME           sn13638ap
EXPNO                  2
PROCNO                 1

F2 - Acquisition Parameters
Date_           20051201
Time               15.22
INSTRUM           dpx400
PROBHD   5 mm QNP  1H/1
PULPROG          zgpg30
TD                 65536
SOLVENT            CDCl3
NS                    83
DS                     4
SWH            23980.814 Hz
FIDRES          0.365918 Hz
AQ             1.3664756 sec
RG                 16384
DW                20.850 usec
DE                  6.00 usec
TE                 294.0 K
D1            2.00000000 sec
d11           0.03000000 sec
DELTA         1.89999998 sec
TD0                    8

======== CHANNEL f1 ========
NUC1                 13C
P1                  9.70 usec
PL1                -3.00 dB
SFO1         100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2          waltz16
NUC2                  1H
PCPD2              84.00 usec
PL2                -3.00 dB
PL12               18.00 dB
PL13               18.00 dB
SFO2         400.1316005 MHz

F2 - Processing parameters
SI                 32768
SF           100.6127849 MHz
WDW                   EM
SSB                    0
LB                  1.00 Hz
GB                     0
PC                  1.40
```

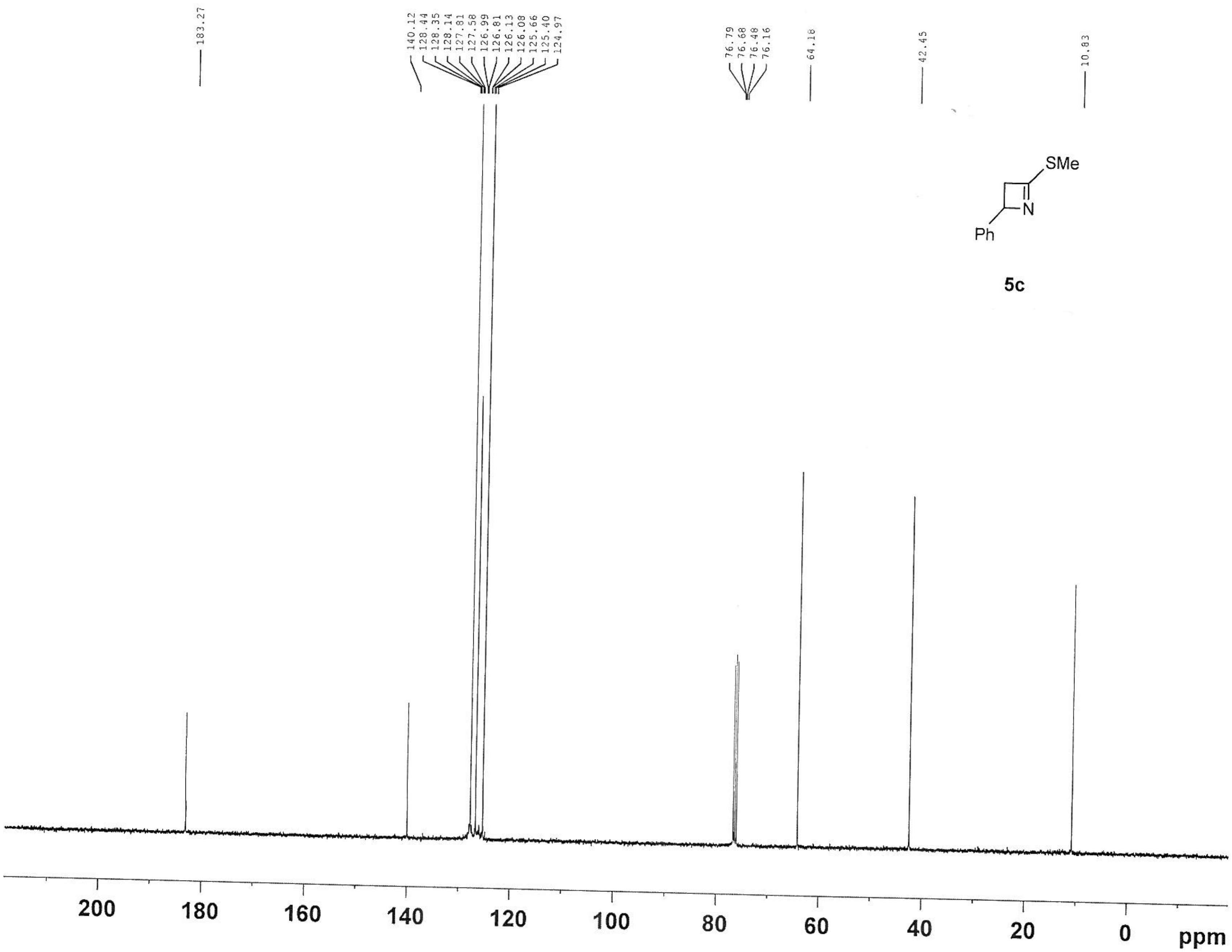




University of HUDDERSFIELD

33e

```
Current Data Parameters
NAME          sn13638ap
EXPNO                 1
PROCNO                1

F2 - Acquisition Parameters
Date_          20051201
Time              15.19
INSTRUM          dpx400
PROBHD   5 mm QNP  1H/1
PULPROG            zg30
TD                65536
SOLVENT           CDCl3
NS                   16
DS                    2
SWH            8278.146 Hz
FIDRES         0.126314 Hz
AQ            3.9584243 sec
RG                 90.5
DW               60.400 usec
DE                 6.00 usec
TE                293.9 K
D1           1.00000000 sec
TD0                   1

======== CHANNEL f1 ========
NUC1                 1H
P1                 8.40 usec
PL1               -3.00 dB
SFO1        400.1324710 MHz

F2 - Processing parameters
SI                32768
SF          400.1300086 MHz
WDW                  EM
SSB                   0
LB                 0.30 Hz
GB                    0
PC                 1.00
```



5c

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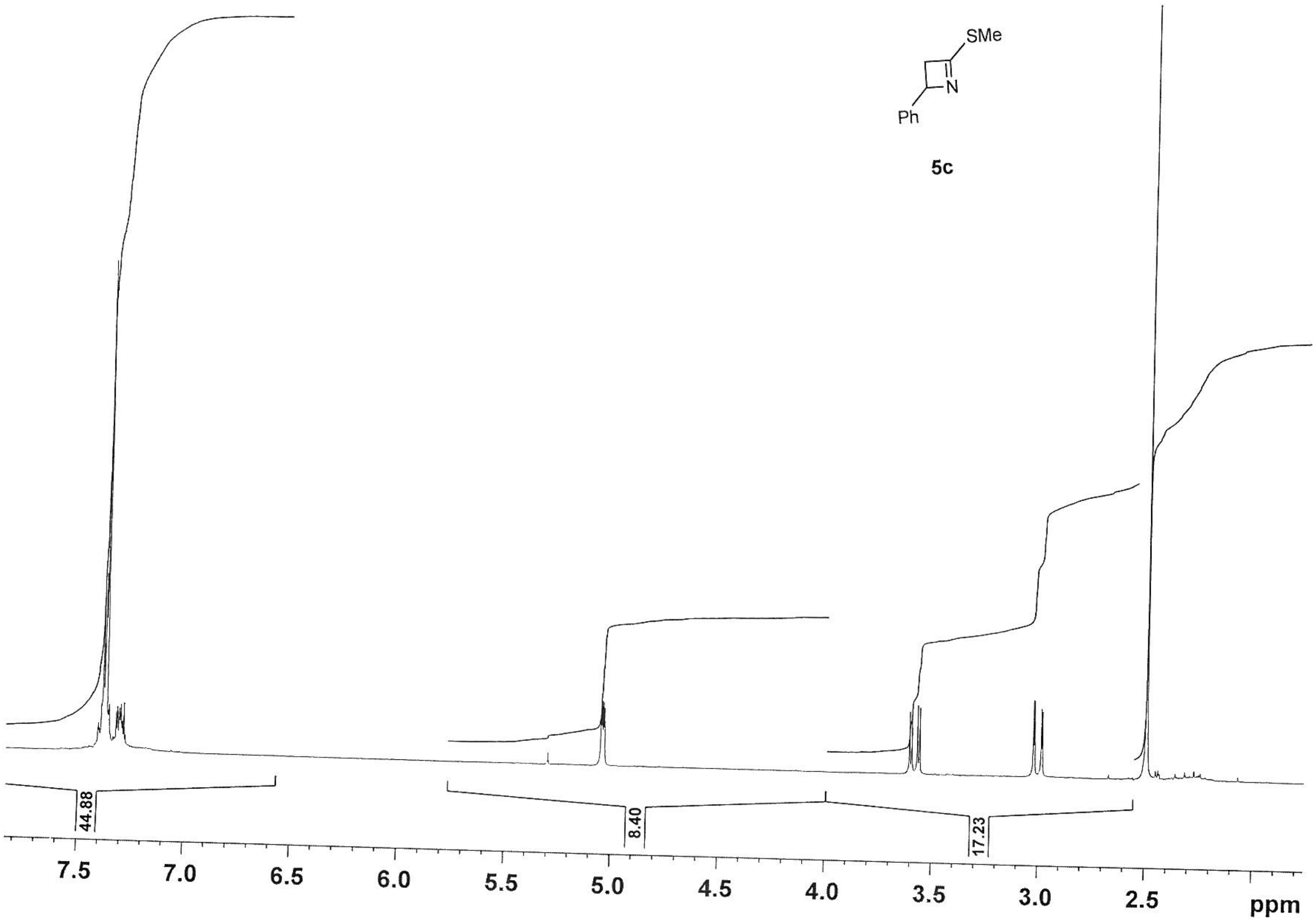
Current Data Parameters
NAME MK 22
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20111202
Time 13.42
INSTRUM dpx400
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 6502
DW 20.850 usec
DE 6.00 usec
TE 292.0 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
TD0 8

======== CHANNEL f1 ========
NUC1 13C
P1 9.70 usec
PL1 -3.00 dB
SFO1 100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 84.00 usec
PL2 -3.00 dB
PL12 16.08 dB
PL13 18.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6128387 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



5c

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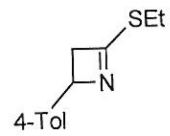
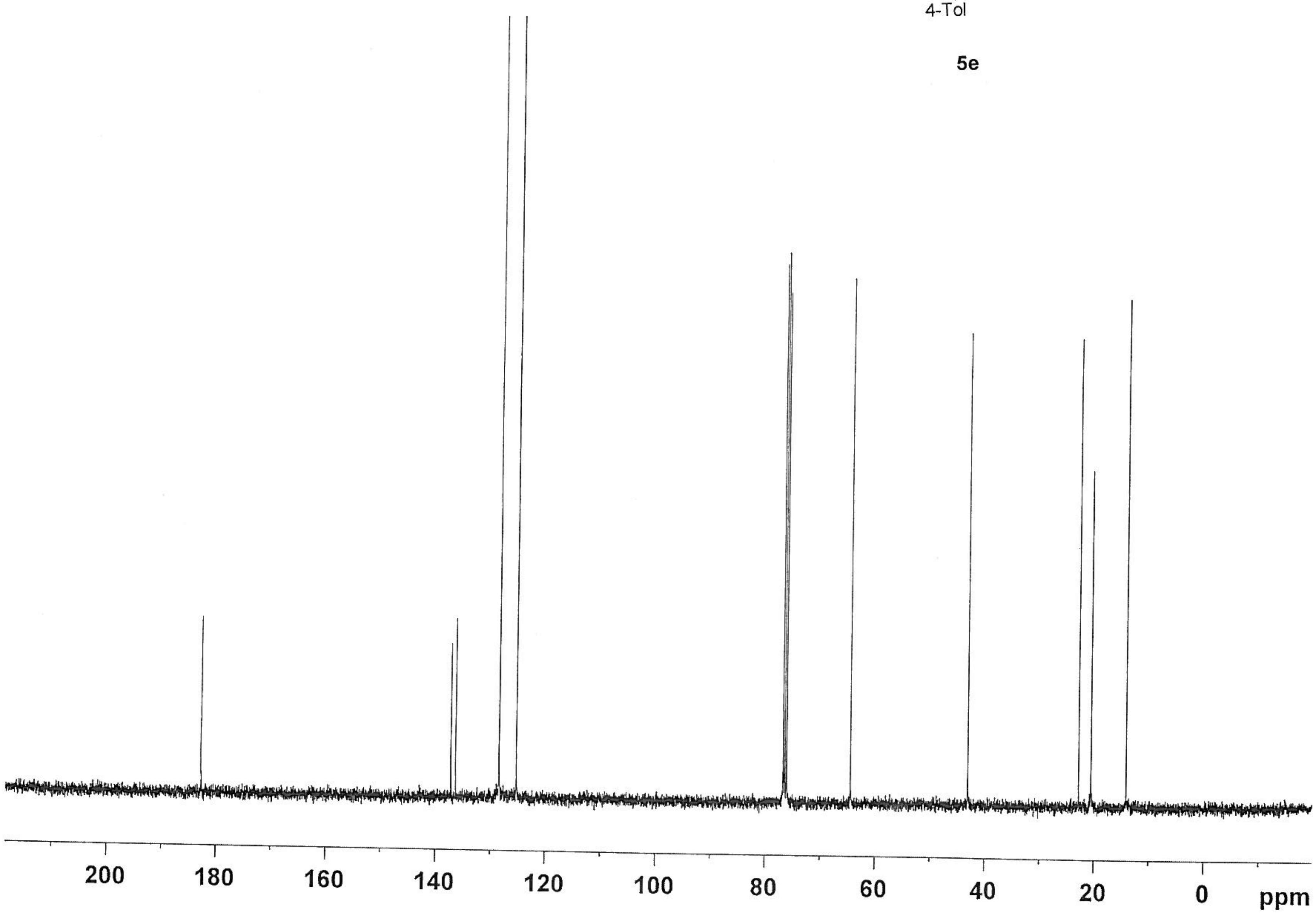
Current Data Parameters	
NAME	MK 22
EXPNO	1
PROCNO	1
F2 - Acquisition Parameters	
Date_	20111202
Time_	13.40
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	2
SWH	8278.146 Hz
FIDRES	0.126314 Hz
AQ	3.9584243 sec
RG	64
DW	60.400 usec
DE	6.00 usec
TE	291.7 K
D1	1.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	8.40 usec
PL1	-3.00 dB
SFO1	400.1324710 MHz
F2 - Processing parameters	
SI	32768
SF	400.1300000 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

35


5e



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```
Current Data Parameters
NAME       MK 25 SEt tol. azetine
EXPNO                    2
PROCNO                   1

F2 - Acquisition Parameters
Date_             20111128
Time                 16.38
INSTRUM             dpx400
PROBHD   5 mm QNP  1H/1
PULPROG            zgpg30
TD                  65536
SOLVENT             CDCl3
NS                    256
DS                      4
SWH             23980.814 Hz
FIDRES           0.365918 Hz
AQ              1.3664756 sec
RG                   6502
DW                 20.850 usec
DE                   6.00 usec
TE                  292.4 K
D1             2.00000000 sec
d11            0.03000000 sec
DELTA          1.89999998 sec
TD0                     8

======== CHANNEL f1 ========
NUC1                  13C
P1                   9.70 usec
PL1                 -3.00 dB
SFO1          100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2           waltz16
NUC2                   1H
PCPD2               84.00 usec
PL2                 -3.00 dB
PL12                16.08 dB
PL13                18.00 dB
SFO2          400.1316005 MHz

F2 - Processing parameters
SI                  32768
SF            100.6128387 MHz
WDW                    EM
SSB                     0
LB                   1.00 Hz
GB                      0
PC                   1.40
```

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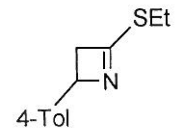
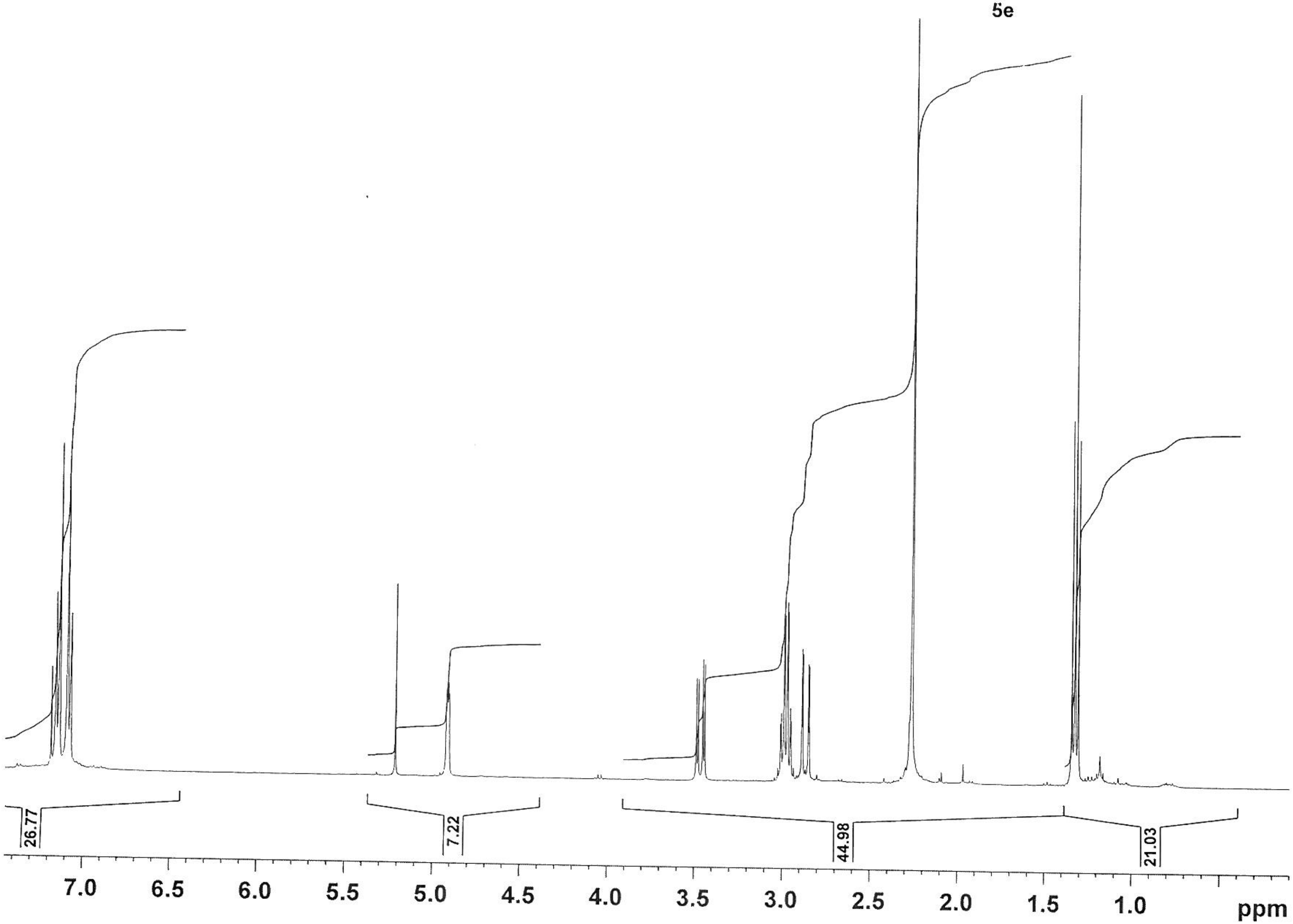


5e



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Current Data Parameters

NAME	Mk 25 SEt tol. azetine
EXPNO	1
PROCNO	1

F2 - Acquisition Parameters

Date_	20111128
Time	16.35
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	2
SWH	8278.146 Hz
FIDRES	0.126314 Hz
AQ	3.9584243 sec
RG	114
DW	60.400 usec
DE	6.00 usec
TE	292.1 K
D1	1.00000000 sec
TD0	1

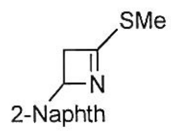
======== CHANNEL f1 ========

NUC1	1H
P1	8.40 usec
PL1	-3.00 dB
SFO1	400.1324710 MHz

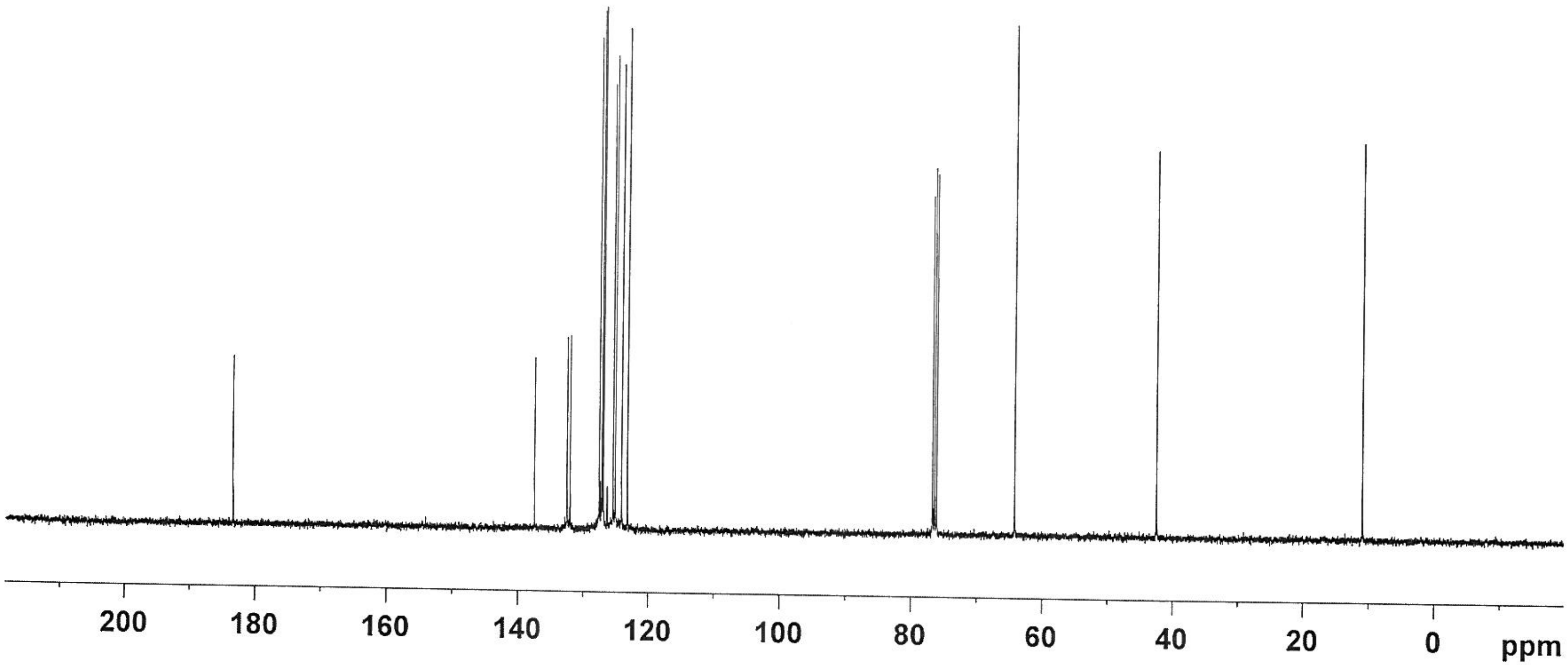
F2 - Processing parameters

SI	32768
SF	400.1300409 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

37



5f



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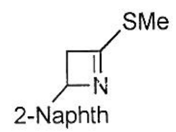
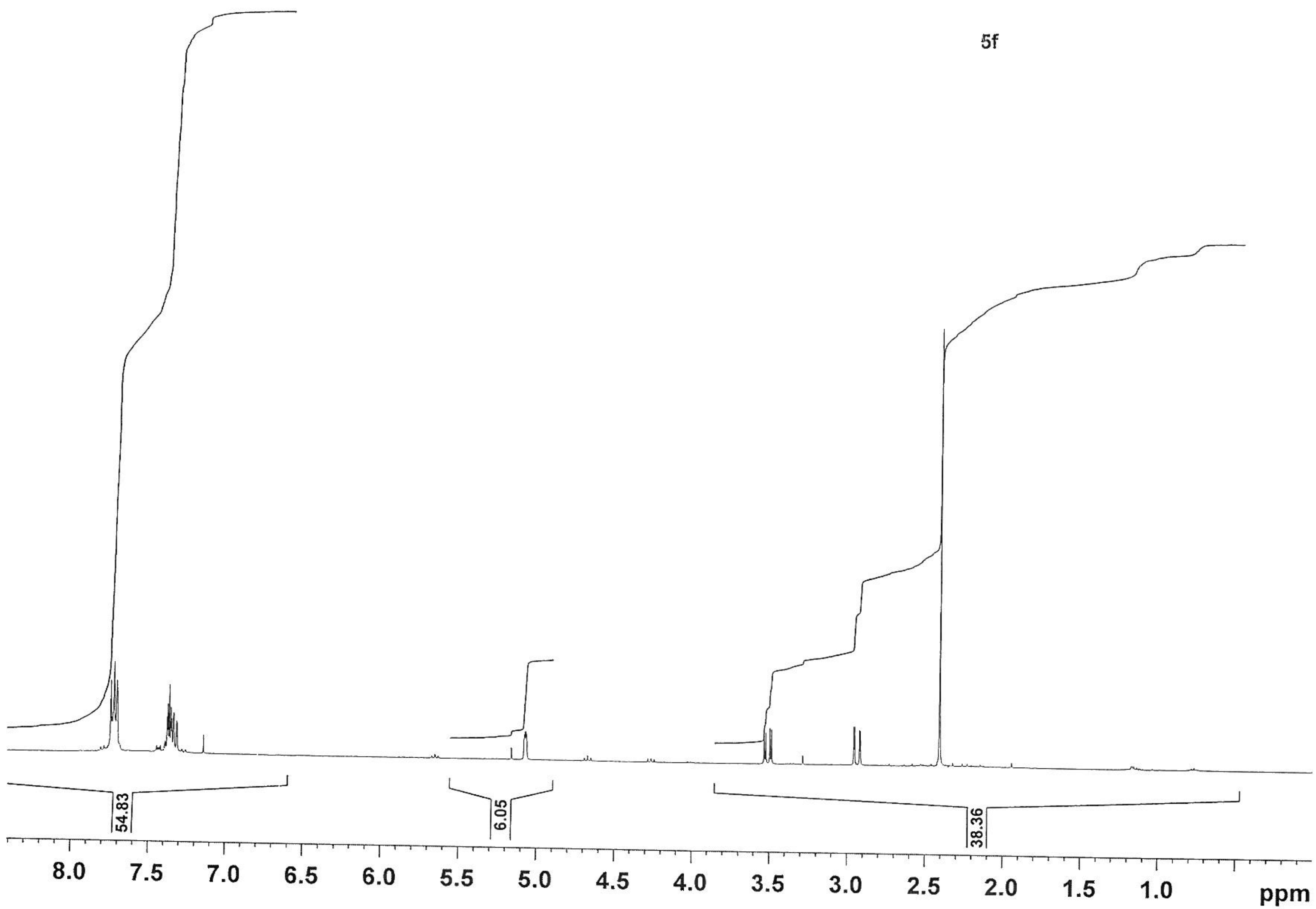
```
Current Data Parameters
NAME              MK 22 D
EXPNO                   2
PROCNO                  1

F2 - Acquisition Parameters
Date_            20111205
Time                16.16
INSTRUM            dpx400
PROBHD    5 mm QNP   1H/1
PULPROG           zgpg30
TD                  65536
SOLVENT             CDCl3
NS                    256
DS                      4
SWH             23980.814 Hz
FIDRES           0.365918 Hz
AQ              1.3664756 sec
RG                10321.3
DW                 20.850 usec
DE                   6.00 usec
TE                  290.8 K
D1             2.00000000 sec
d11            0.03000000 sec
DELTA          1.89999998 sec
TD0                     8

======== CHANNEL f1 ========
NUC1                  13C
P1                   9.70 usec
PL1                 -3.00 dB
SFO1          100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2           waltz16
NUC2                   1H
PCPD2               84.00 usec
PL2                 -3.00 dB
PL12                16.08 dB
PL13                18.00 dB
SFO2          400.1316005 MHz

F2 - Processing parameters
SI                  32768
SF            100.6128387 MHz
WDW                    EM
SSB                     0
LB                   1.00 Hz
GB                      0
PC                   1.40
```



5f



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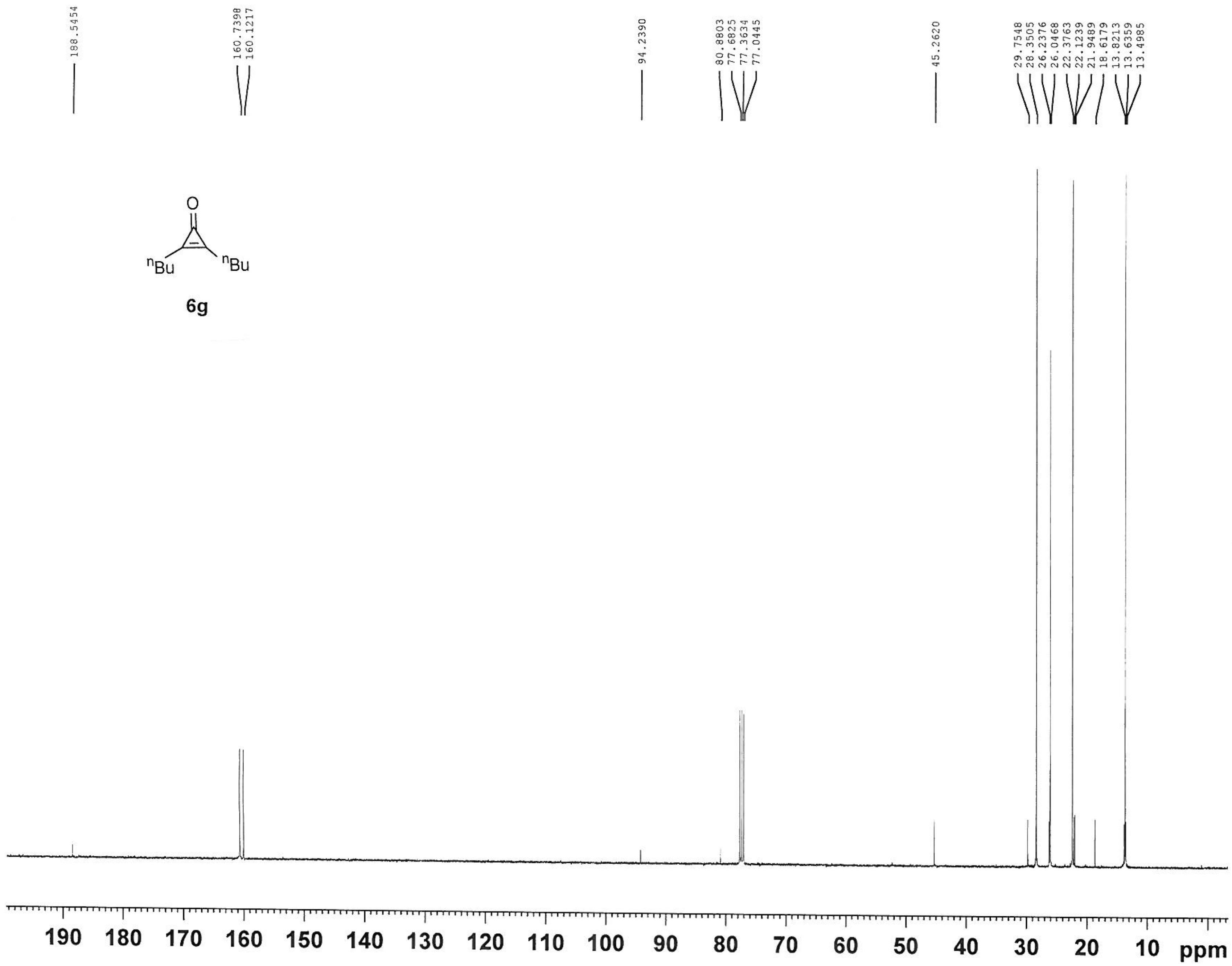
```
Current Data Parameters
NAME               MK 22 D
EXPNO                    1
PROCNO                   1

F2 - Acquisition Parameters
Date_             20111205
Time                 16.13
INSTRUM             dpx400
PROBHD     5 mm QNP  1H/1
PULPROG               zg30
TD                   65536
SOLVENT              CDCl3
NS                      16
DS                       2
SWH              8278.146 Hz
FIDRES           0.126314 Hz
AQ              3.9584243 sec
RG                      64
DW                  60.400 usec
DE                    6.00 usec
TE                   290.4 K
D1              1.00000000 sec
TD0                      1

======== CHANNEL f1 ========
NUC1                    1H
P1                    8.40 usec
PL1                  -3.00 dB
SFO1           400.1324710 MHz

F2 - Processing parameters
SI                   32768
SF             400.1300557 MHz
WDW                     EM
SSB                      0
LB                    0.30 Hz
GB                       0
PC                    1.00
```

39



6g

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```
Current Data Parameters
NAME                IQ167
EXPNO                   2
PROCNO                  1

F2 - Acquisition Parameters
Date_            20100608
Time                14.06
INSTRUM            dpx400
PROBHD    5 mm QNP  1H/1
PULPROG           zgpg30
TD                  65536
SOLVENT             CDCl3
NS                    256
DS                      4
SWH             23980.814 Hz
FIDRES           0.365918 Hz
AQ              1.3664756 sec
RG                10321.3
DW                 20.850 usec
DE                   6.00 usec
TE                  293.6 K
D1             2.00000000 sec
d11            0.03000000 sec
DELTA          1.89999998 sec
TD0                     8

======== CHANNEL f1 ========
NUC1                  13C
P1                   9.70 usec
PL1                 -3.00 dB
SFO1          100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2           waltz16
NUC2                   1H
PCPD2               84.00 usec
PL2                 -3.00 dB
PL12                18.00 dB
PL13                18.00 dB
SFO2          400.1316005 MHz

F2 - Processing parameters
SI                  32768
SF            100.6127557 MHz
WDW                    EM
SSB                     0
LB                   1.00 Hz
GB                      0
PC                   1.40
```

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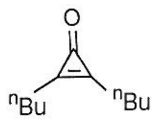
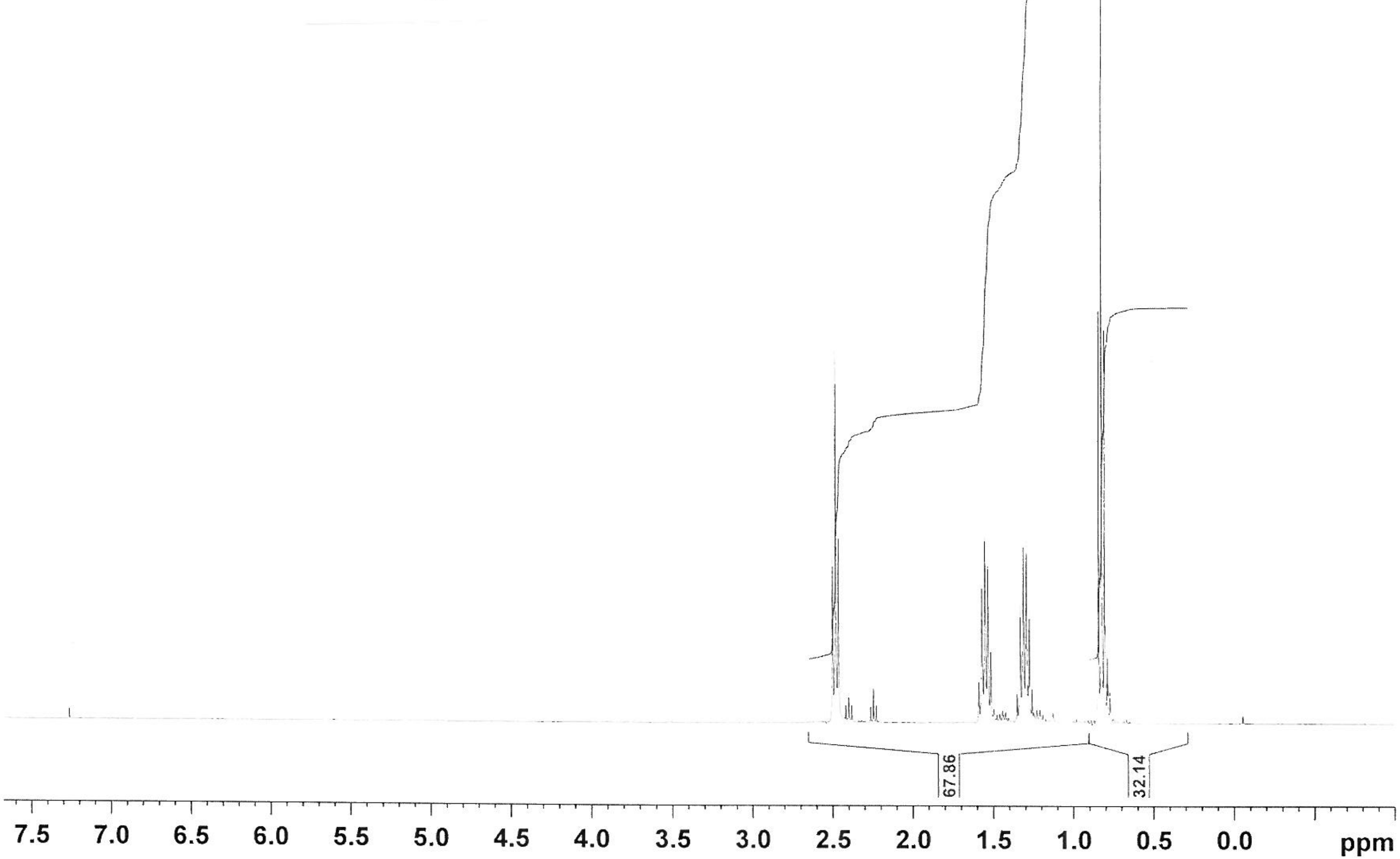


6g



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```
Current Data Parameters
NAME              IQ167
EXPNO                 1
PROCNO                1

F2 - Acquisition Parameters
Date_          20100608
Time              14.03
INSTRUM          dpx400
PROBHD   5 mm QNP  1H/1
PULPROG            zg30
TD                65536
SOLVENT           CDCl3
NS                   16
DS                    2
SWH           8278.146 Hz
FIDRES        0.126314 Hz
AQ           3.9584243 sec
RG                 28.5
DW               60.400 usec
DE                 6.00 usec
TE                293.4 K
D1           1.00000000 sec
TD0                   1

======== CHANNEL f1 ========
NUC1                 1H
P1                 8.40 usec
PL1               -3.00 dB
SFO1        400.1324710 MHz

F2 - Processing parameters
SI                32768
SF          400.1300051 MHz
WDW                  EM
SSB                   0
LB                 0.30 Hz
GB                    0
PC                 1.00
```

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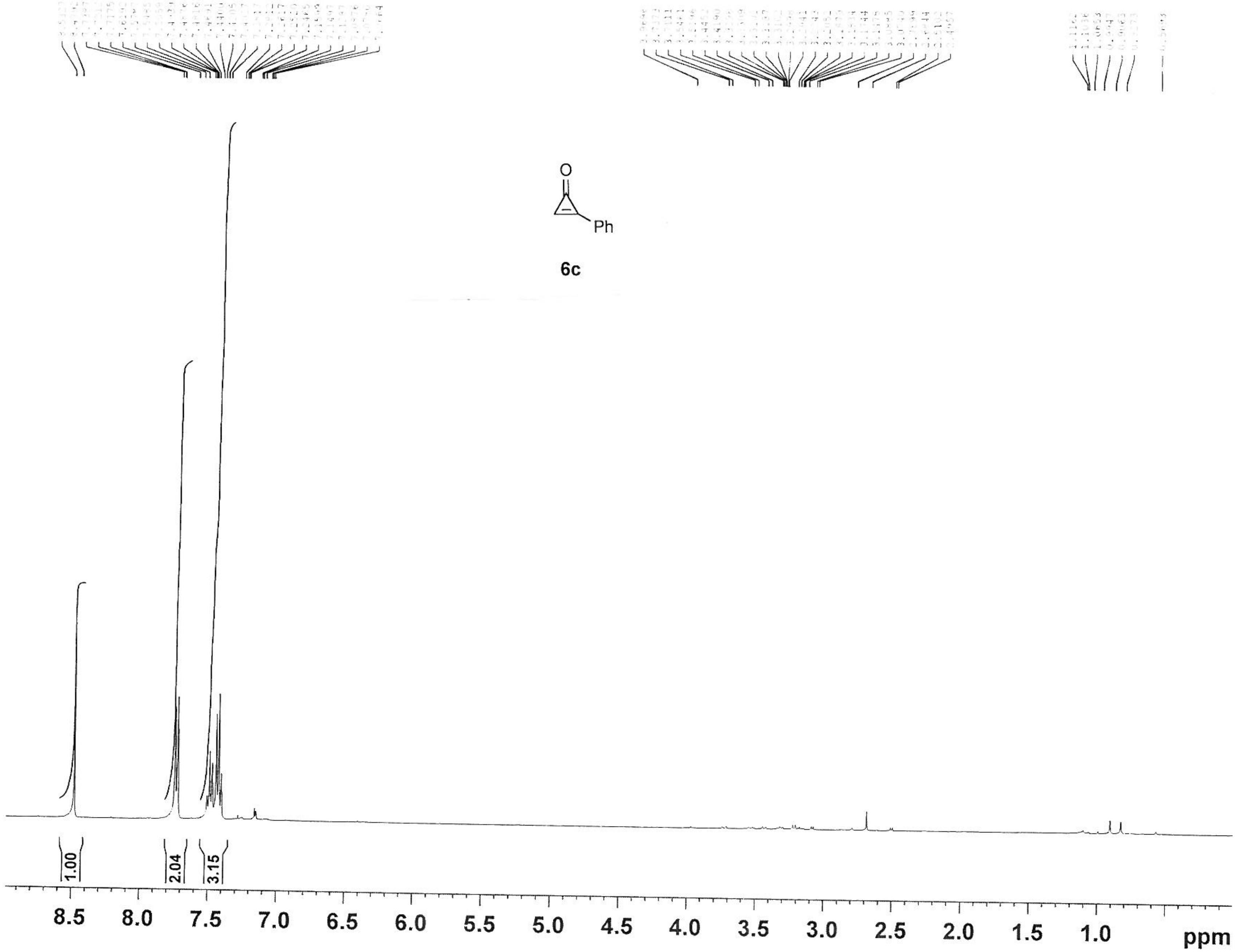

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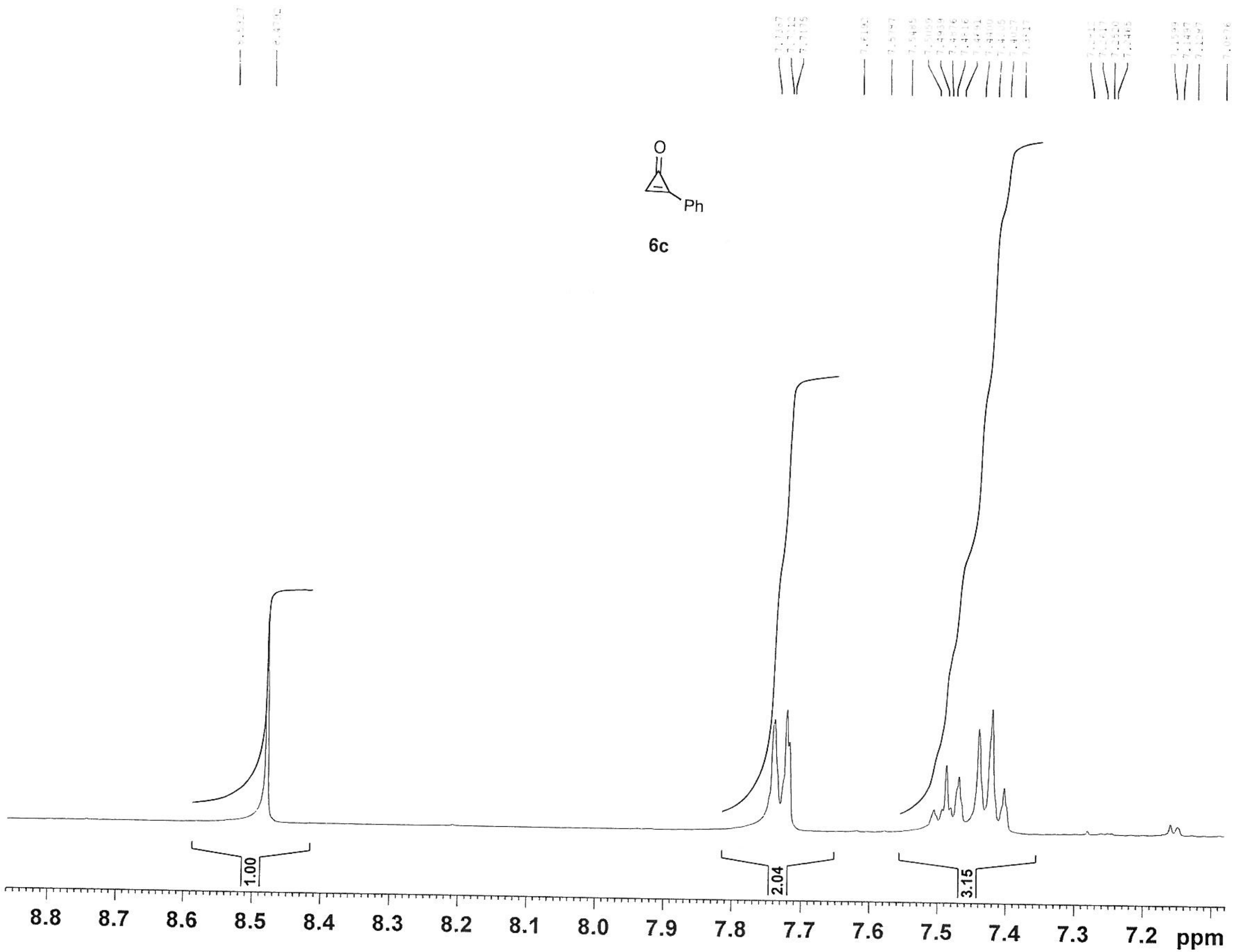
```
Current Data Parameters
NAME              VVR-3-9
EXPNO                   1
PROCNO                  1

F2 - Acquisition Parameters
Date_            20101101
Time                11.03
INSTRUM            dpx400
PROBHD   5 mm QNP  1H/1
PULPROG              zg30
TD                  65536
SOLVENT             CDCl3
NS                     16
DS                      2
SWH              8278.146 Hz
FIDRES           0.126314 Hz
AQ              3.9584243 sec
RG                   45.3
DW                 60.400 usec
DE                   6.00 usec
TE                  291.2 K
D1             1.00000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                   1H
P1                   8.40 usec
PL1                 -3.00 dB
SFO1          400.1324710 MHz

F2 - Processing parameters
SI                  32768
SF            400.1300000 MHz
WDW                    EM
SSB                     0
LB                   0.30 Hz
GB                      0
PC                   1.00
```



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Current Data Parameters

NAME	VVR-3-9
EXPNO	1
PROCNO	1

F2 - Acquisition Parameters

Date_	20101101
Time	11.03
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	2
SWH	8278.146 Hz
FIDRES	0.126314 Hz
AQ	3.9584243 sec
RG	45.3
DW	60.400 usec
DE	6.00 usec
TE	291.2 K
D1	1.00000000 sec
TD0	1

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

NUC1	1H
P1	8.40 usec
PL1	-3.00 dB
SFO1	400.1324710 MHz

F2 - Processing parameters

SI	32768
SF	400.1300000 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

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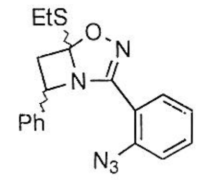
13C H-decoupled



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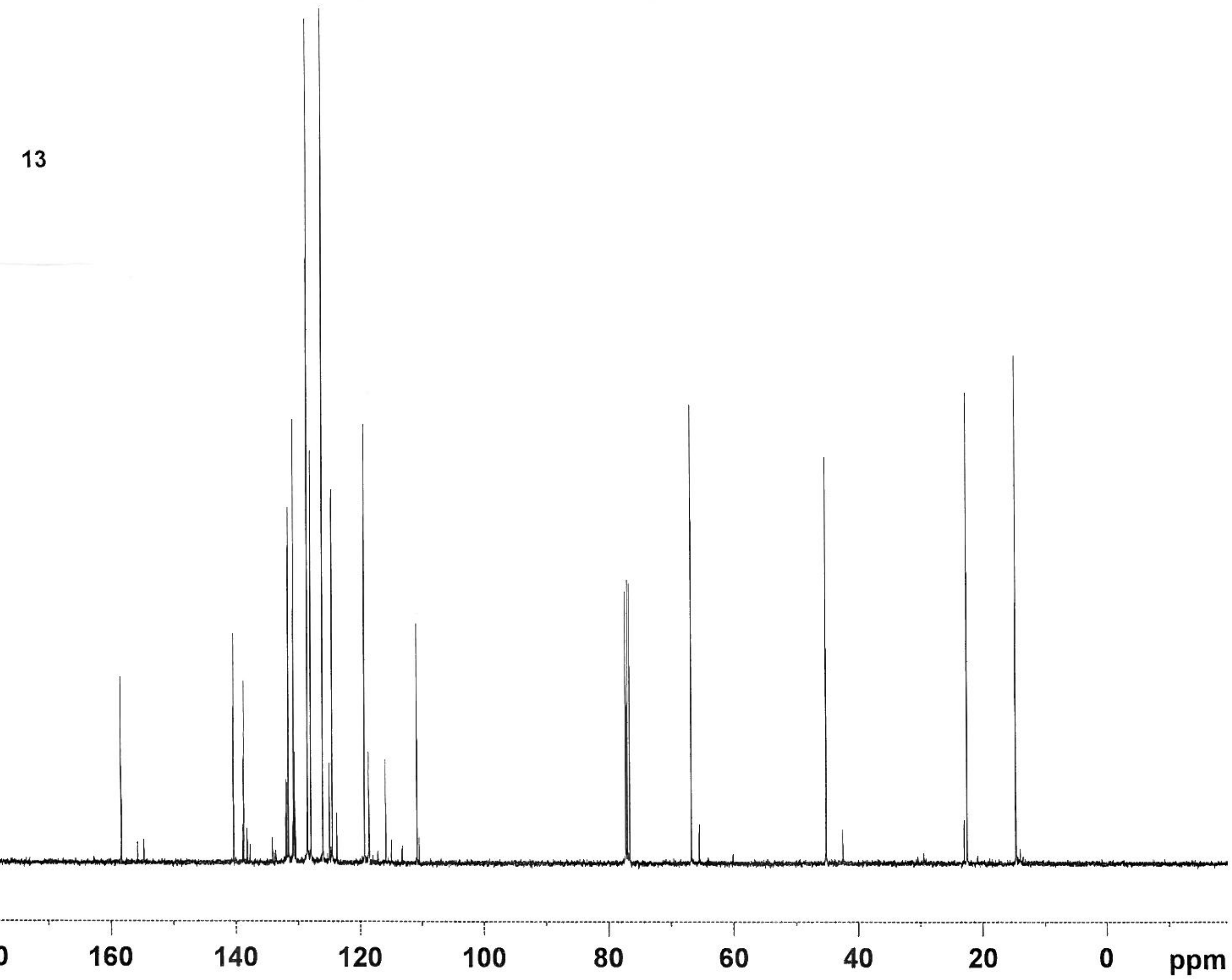

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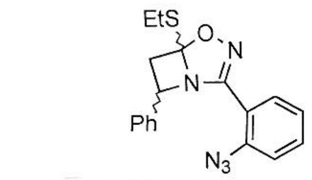
```
Current Data Parameters
NAME          sn13939ap
EXPNO                 2
PROCNO                1

F2 - Acquisition Parameters
Date_          20060220
Time              12.35
INSTRUM          dpx400
PROBHD   5 mm QNP  1H/1
PULPROG          zgpg30
TD                65536
SOLVENT           CDCl3
NS                  256
DS                    4
SWH           23980.814 Hz
FIDRES         0.365918 Hz
AQ            1.3664756 sec
RG               7298.2
DW               20.850 usec
DE                 6.00 usec
TE                291.3 K
D1           2.00000000 sec
d11          0.03000000 sec
DELTA        1.89999998 sec
TD0                   8

======== CHANNEL f1 ========
NUC1                13C
P1                 9.70 usec
PL1               -3.00 dB
SFO1        100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2        waltz16
NUC2                 1H
PCPD2             84.00 usec
PL2               -3.00 dB
PL12              18.00 dB
PL13              18.00 dB
SFO2        400.1316005 MHz

F2 - Processing parameters
SI                32768
SF          100.6127923 MHz
WDW                  EM
SSB                   0
LB                 1.00 Hz
GB                    0
PC                 1.40
```



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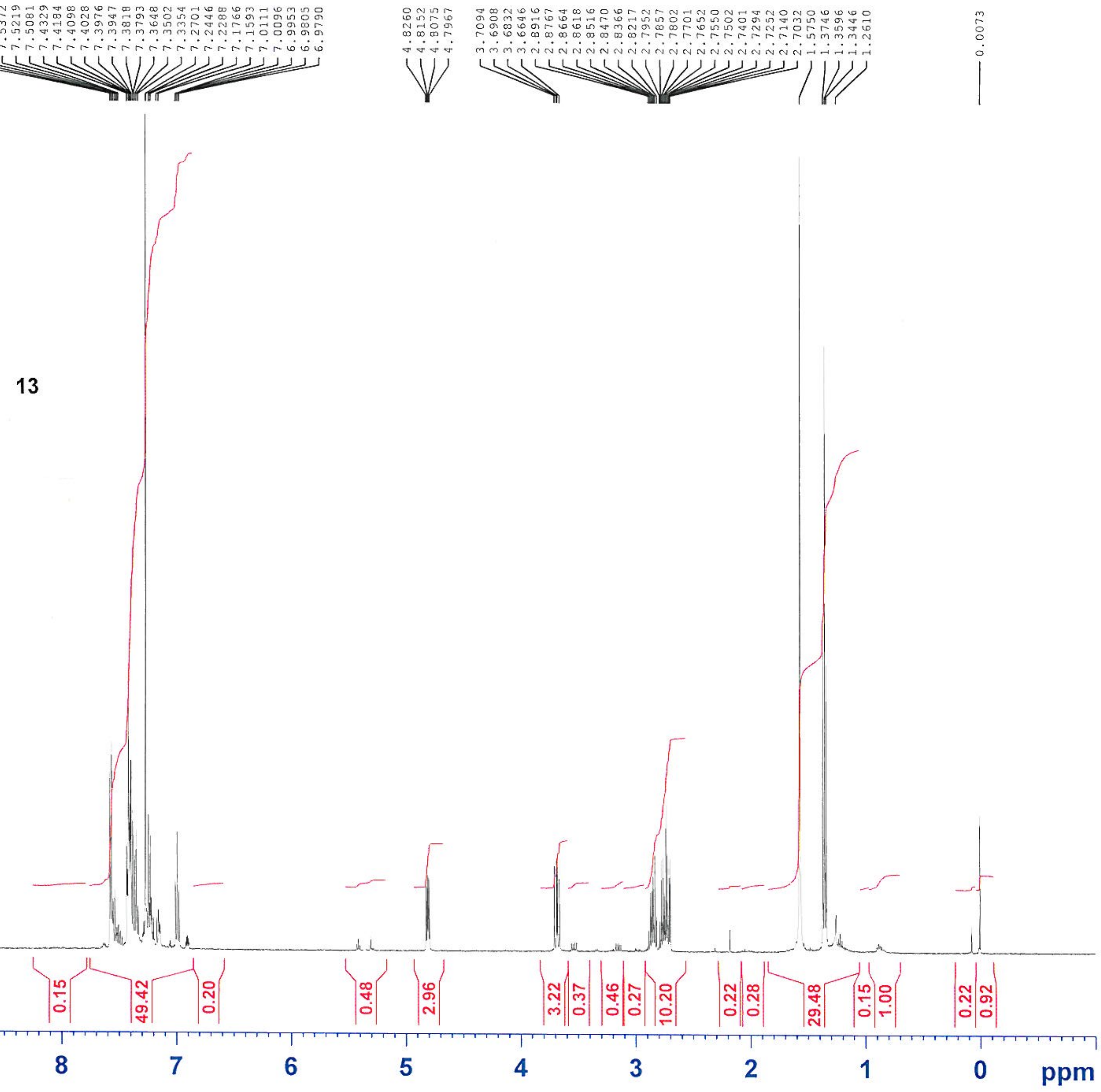

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```
Current Data Parameters
NAME             sn14001ap
EXPNO                    1
PROCNO                   1

F2 - Acquisition Parameters
Date_             20060309
Time                 11.10
INSTRUM              av500
PROBHD   5 mm PABBO BB-
PULPROG               zg30
TD                   65536
SOLVENT              CDCl3
NS                      16
DS                       2
SWH             10330.578 Hz
FIDRES           0.157632 Hz
AQ              3.1719923 sec
RG                     575
DW                  48.400 usec
DE                    6.00 usec
TE                   293.5 K
D1              1.00000000 sec
TD0                      1

======== CHANNEL f1 ========
NUC1                    1H
P1                    9.70 usec
PL1                   0.10 dB
SFO1           500.1330885 MHz

F2 - Processing parameters
SI                   32768
SF             500.1300082 MHz
WDW                     EM
SSB                      0
LB                    0.30 Hz
GB                       0
PC                    1.00
```

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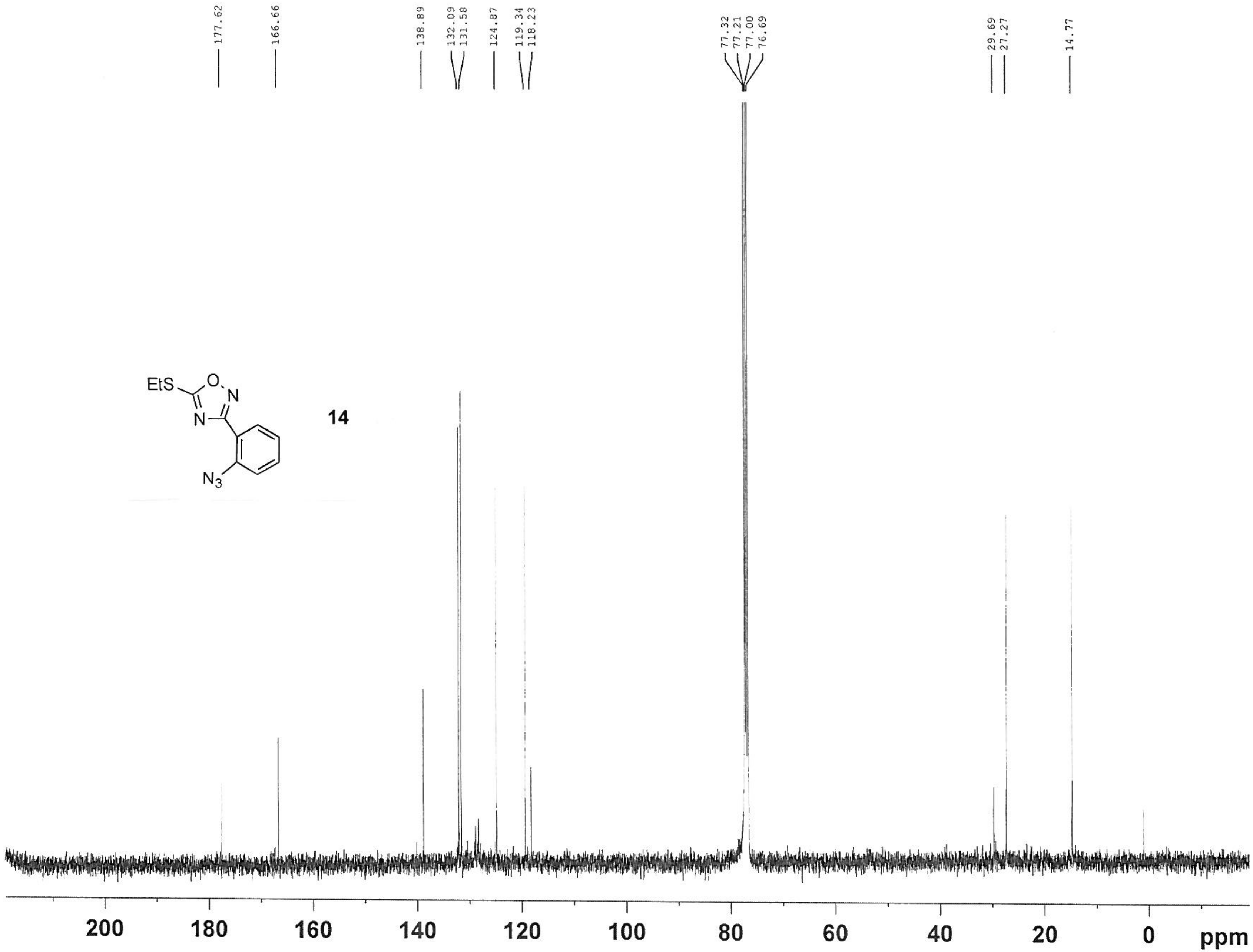

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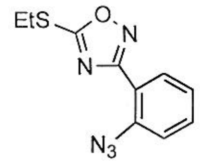
Current Data Parameters	
NAME	sn14965ap
EXPNO	2
PROCNO	1
F2 - Acquisition Parameters	
Date_	20070419
Time_	16.00
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/1
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	8192
DS	4
SWH	23980.814 Hz
FIDRES	0.365918 Hz
AQ	1.3664756 sec
RG	8192
DW	20.850 usec
DE	6.00 usec
TE	294.2 K
D1	2.00000000 sec
d11	0.03000000 sec
DELTA	1.89999998 sec
TD0	256
======== CHANNEL f1 ========	
NUC1	13C
P1	9.70 usec
PL1	-3.00 dB
SFO1	100.6228298 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	84.00 usec
PL2	-3.00 dB
PL12	18.00 dB
PL13	18.00 dB
SFO2	400.1316005 MHz
F2 - Processing parameters	
SI	32768
SF	100.6127707 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40



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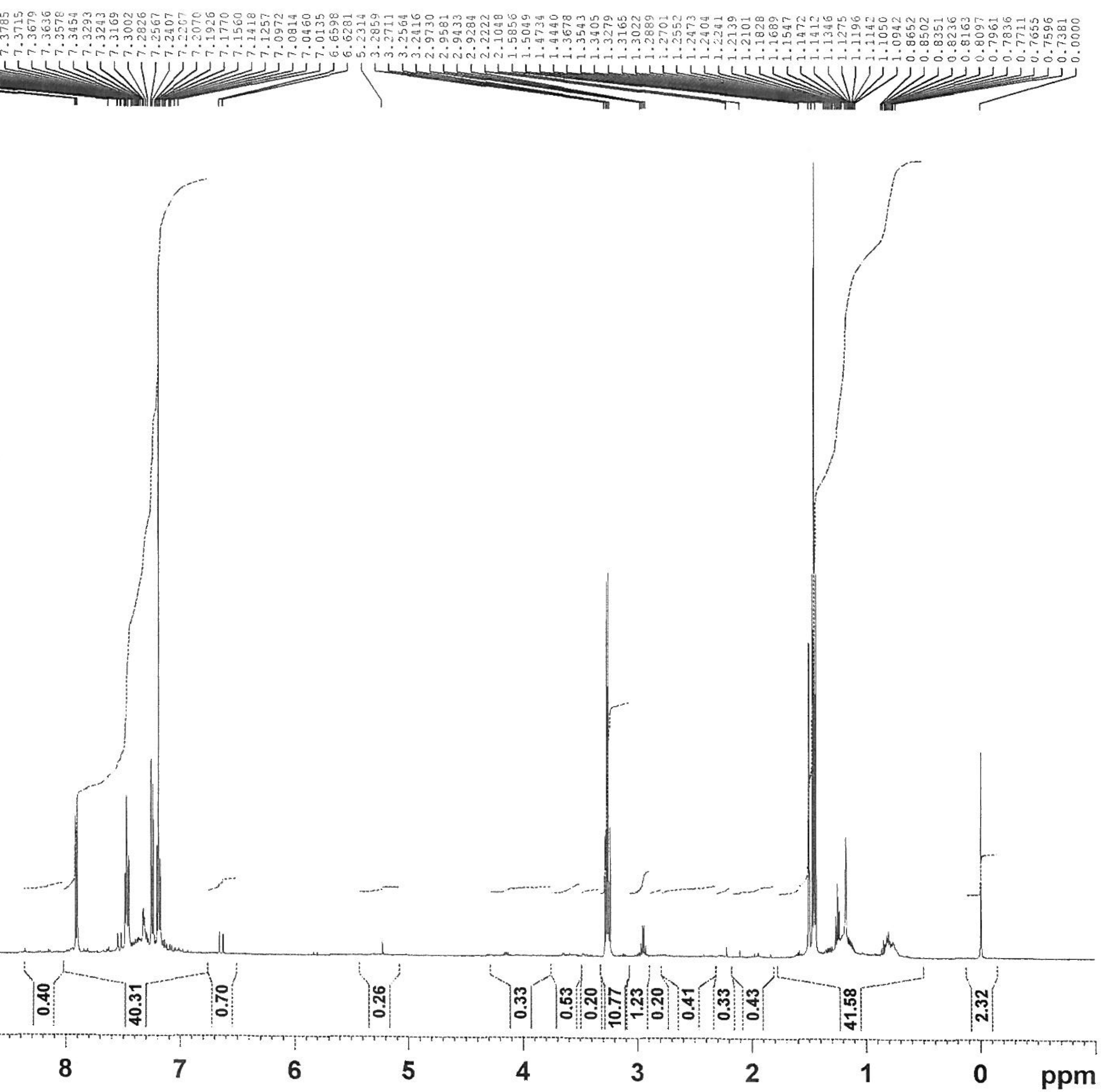

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```
Current Data Parameters
NAME            sn13987ap
EXPNO                   1
PROCNO                  1

F2 - Acquisition Parameters
Date_            20060308
Time_                8.53
INSTRUM             av500
PROBHD   5 mm PABBO BB-
PULPROG              zg30
TD                  65536
SOLVENT             CDCl3
NS                     16
DS                      2
SWH          10330.578 Hz
FIDRES        0.157632 Hz
AQ           3.1720407 sec
RG                    456
DW             48.400 usec
DE               6.00 usec
TE                293.6 K
D1         1.00000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                   1H
P1               9.70 usec
PL1               0.10 dB
SFO1       500.1330885 MHz

F2 - Processing parameters
SI                  32768
SF         500.1300469 MHz
WDW                    EM
SSB                     0
LB                0.30 Hz
GB                      0
PC                   1.00
```

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