

Supplementary material

**Simple access to 11-substituted norcryptotackieine derivatives**

Michał Nowacki and Krzysztof Wojciechowski

Institute of Organic Chemistry, Polish Academy of Sciences, Kasprzaka 44/52, 01-224 Warsaw, Poland

e-mail: [kwojciechowski@icho.edu.pl](mailto:kwojciechowski@icho.edu.pl)

$^1\text{H}$  and  $^{13}\text{C}$  NMR spectra of the obtained compounds

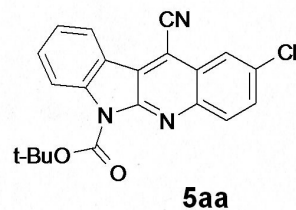
8.642  
8.627  
8.379  
8.362  
8.283  
8.207  
8.190  
7.766  
7.749  
7.718  
7.703  
7.687  
7.522  
7.508  
7.493  
7.260

3.107

1.815

1.426

0.000

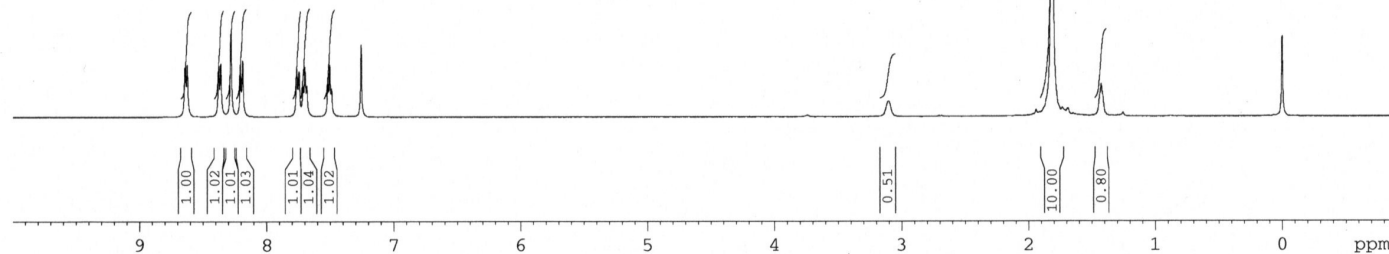


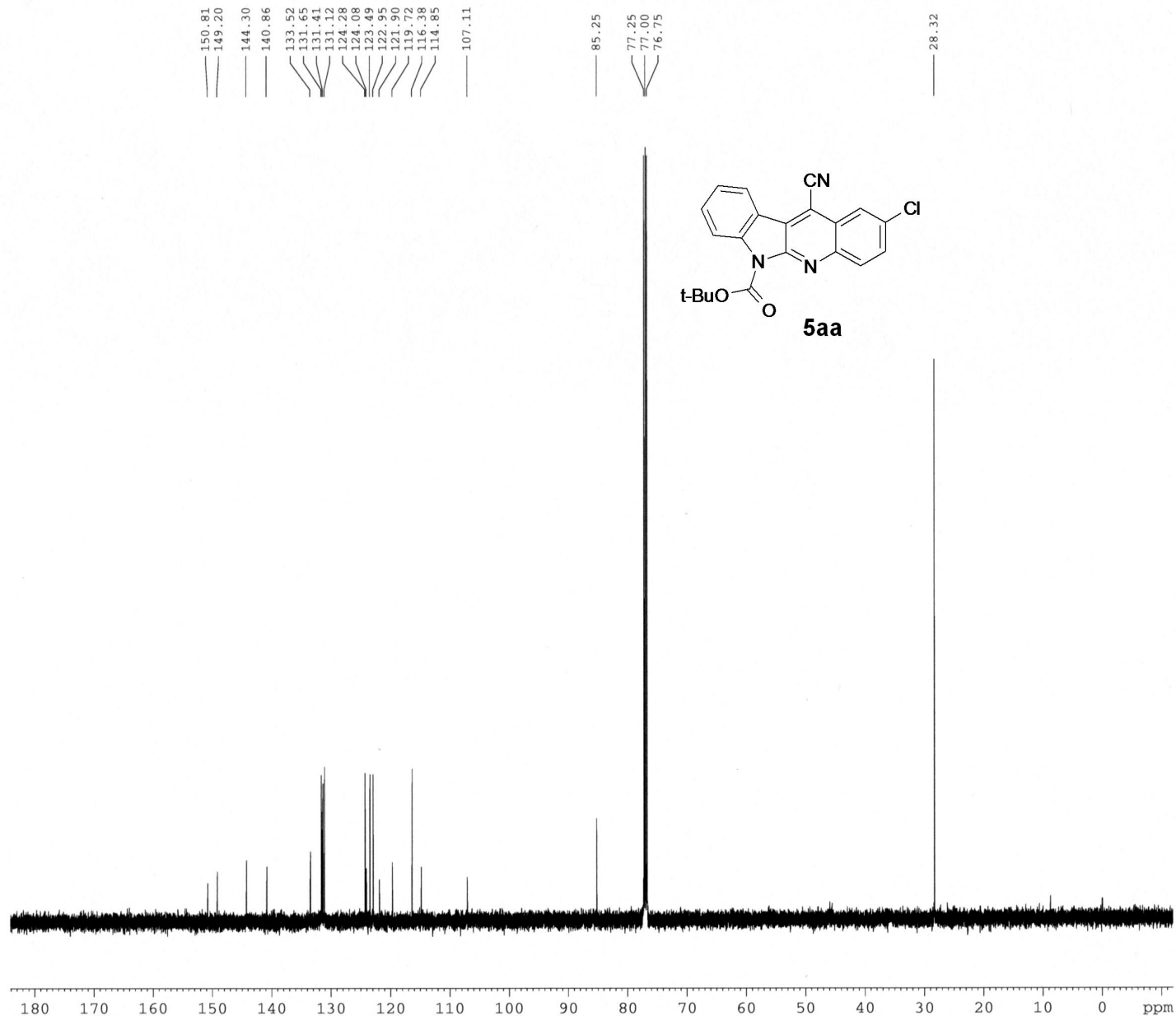
Current Data Parameters  
NAME MN96  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150525  
Time 12.00  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 32  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 228.1  
DW 48.400 usec  
DE 6.78 usec  
TE 303.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 8.20 usec  
PL1 5.00 dB  
SFO1 500.1330885 MHz

F2 - Processing parameters  
SI 32768  
SF 500.1300246 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00





Current Data Parameters  
 NAME MN96  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20150525  
 Time 12.47  
 INSTRUM DRX  
 PROBHD 5 mm TBI 1H/13  
 PULPROG zgpgg  
 TD 65536  
 SOLVENT CDC13  
 NS 3000  
 DS 4  
 SWH 32679.738 Hz  
 FIDRES 0.498653 Hz  
 AQ 1.0027508 sec  
 RG 32768  
 DW 15.300 usec  
 DE 7.10 usec  
 TE 303.0 K  
 D1 1.00000000 sec  
 d11 0.03000000 sec  
 DELTA 0.89999998 sec  
 TD0 1

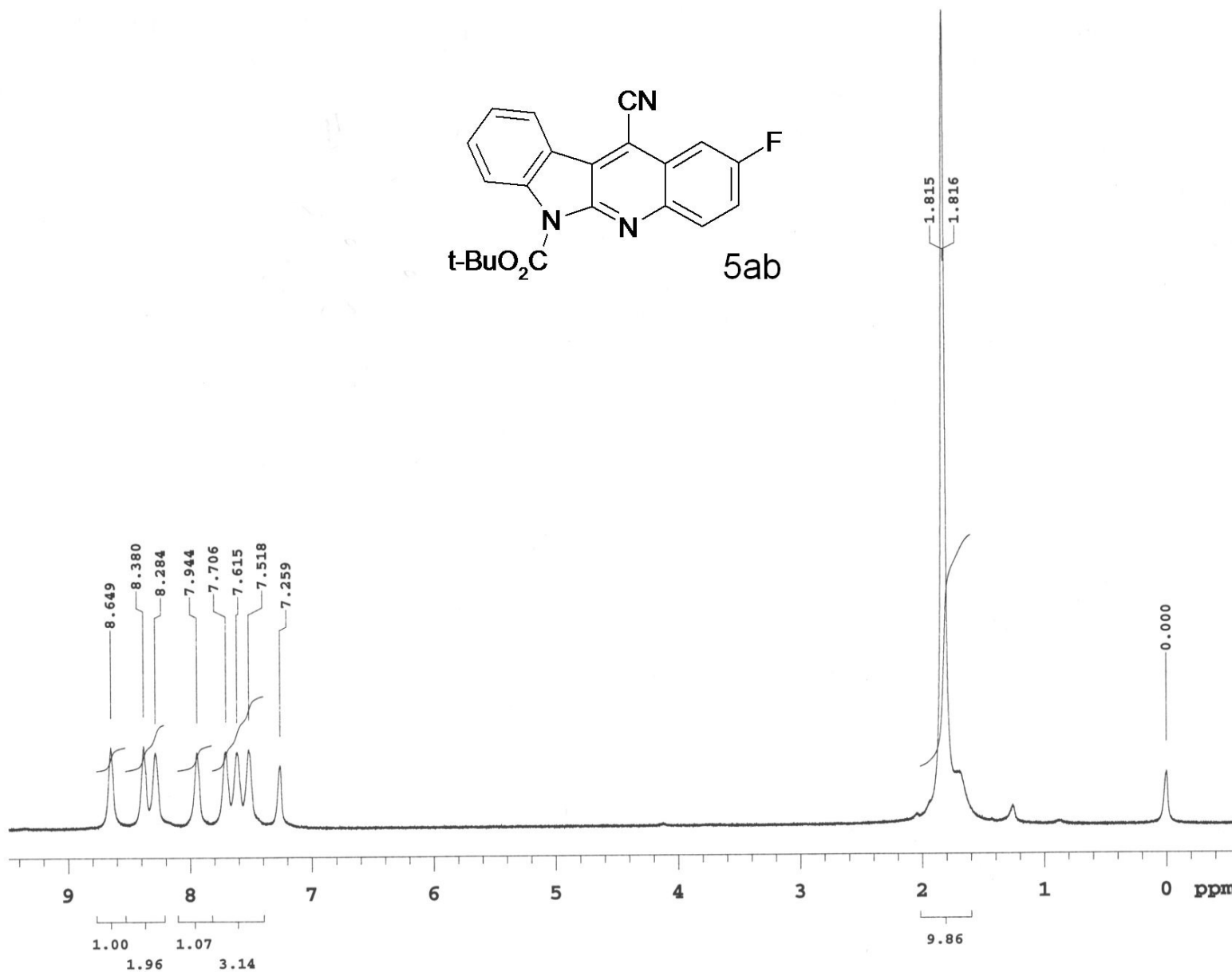
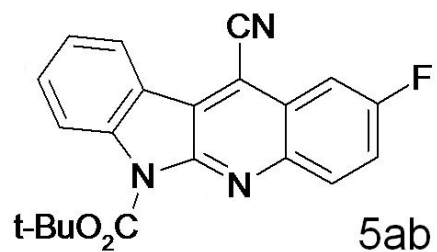
===== CHANNEL f1 =====  
 NUC1 13C  
 P1 5.00 usec  
 PL1 -3.00 dB  
 SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
 CPDPRG2 waltz16  
 NUC2 1H  
 PCPD2 98.00 usec  
 PL2 3.00 dB  
 PL12 23.00 dB  
 PL13 32.00 dB  
 SFO2 500.1320005 MHz

F1 - Acquisition parameters  
 ND0 1  
 TD 128  
 SFO1 500.132 MHz  
 FIDRES 7.812500 Hz  
 SW 1.999 ppm  
 FhMODE QF

F2 - Processing parameters  
 SI 262144  
 SF 125.7577935 MHz  
 WDW EM  
 SSB 0  
 LB 0.50 Hz  
 GB 0  
 PC 1.40

F1 - Processing parameters  
 SI 1024  
 MC2 QF  
 SF 500.1300000 MHz  
 WDW SINE  
 SSB 0  
 LB 0.30 Hz  
 GB 0.1



M. Nowacki  
zespl/Var500/MN\_84/MN\_84-H1

Sample Name:  
MN\_84  
Data Collected on:  
Varian-NMR-vnmrs500  
Archive directory:

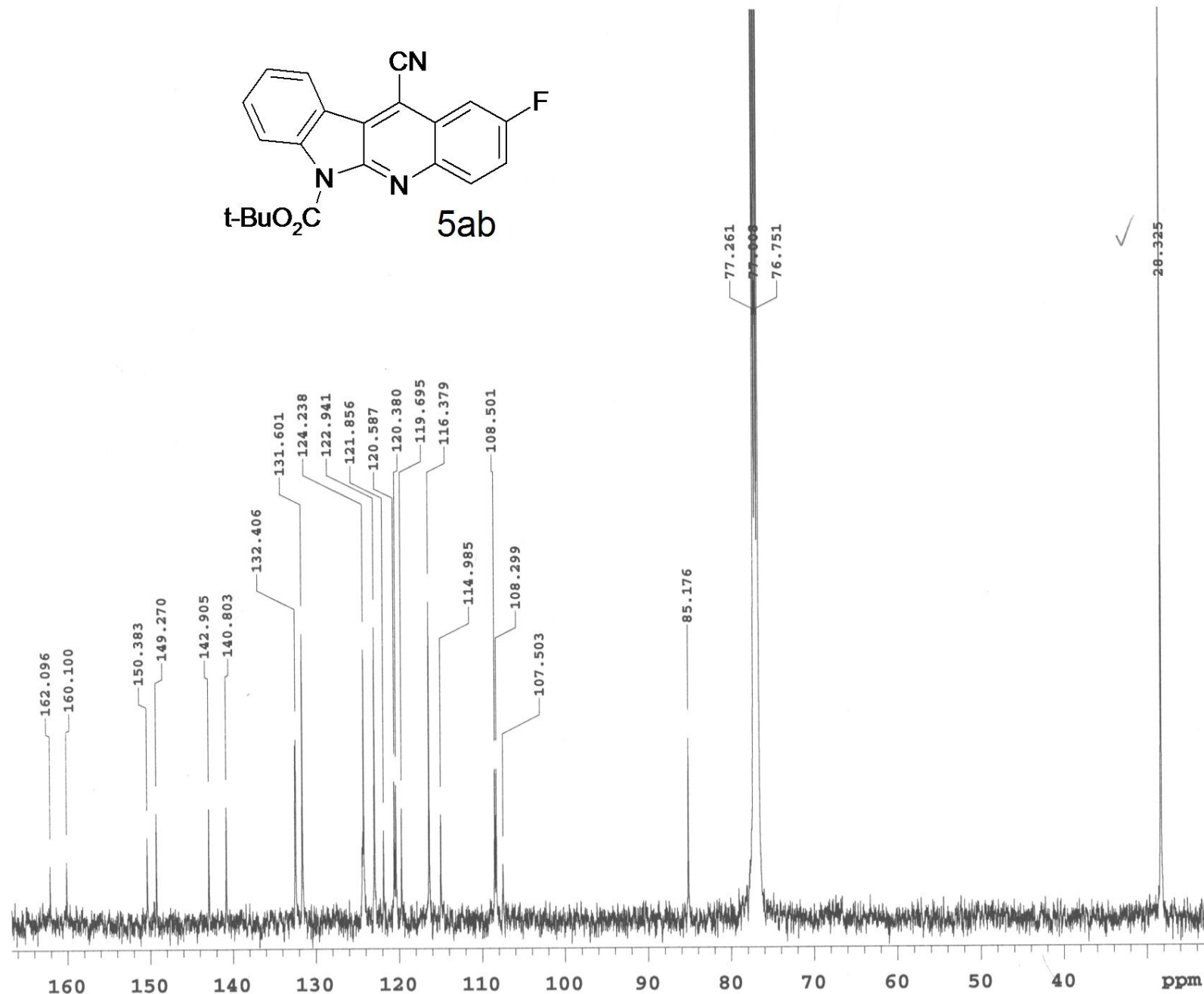
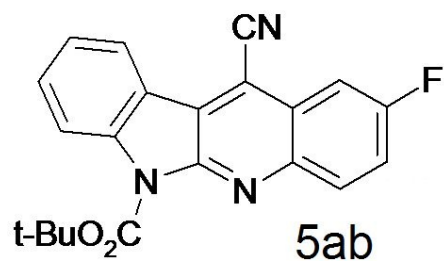
Sample directory:

FidFile: PROTON

Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3  
Data collected on: Apr 11 201

Temp. 25.0 C / 298.1 K  
Operator: vnmr1

Relax. delay 1.000 sec  
Pulse 29.8 degrees  
Acq. time 4.000 sec  
Width 10080.6 Hz  
16 repetitions  
OBSERVE H1, 499.8247788 MH:  
DATA PROCESSING  
FT size 131072



M. Nowacki  
zesp1/Var500/MN\_84/MN\_84-C13

Sample Name:  
MN\_84  
Data Collected on:  
Varian-NMR-vnmrs500  
Archive directory:

Sample directory:

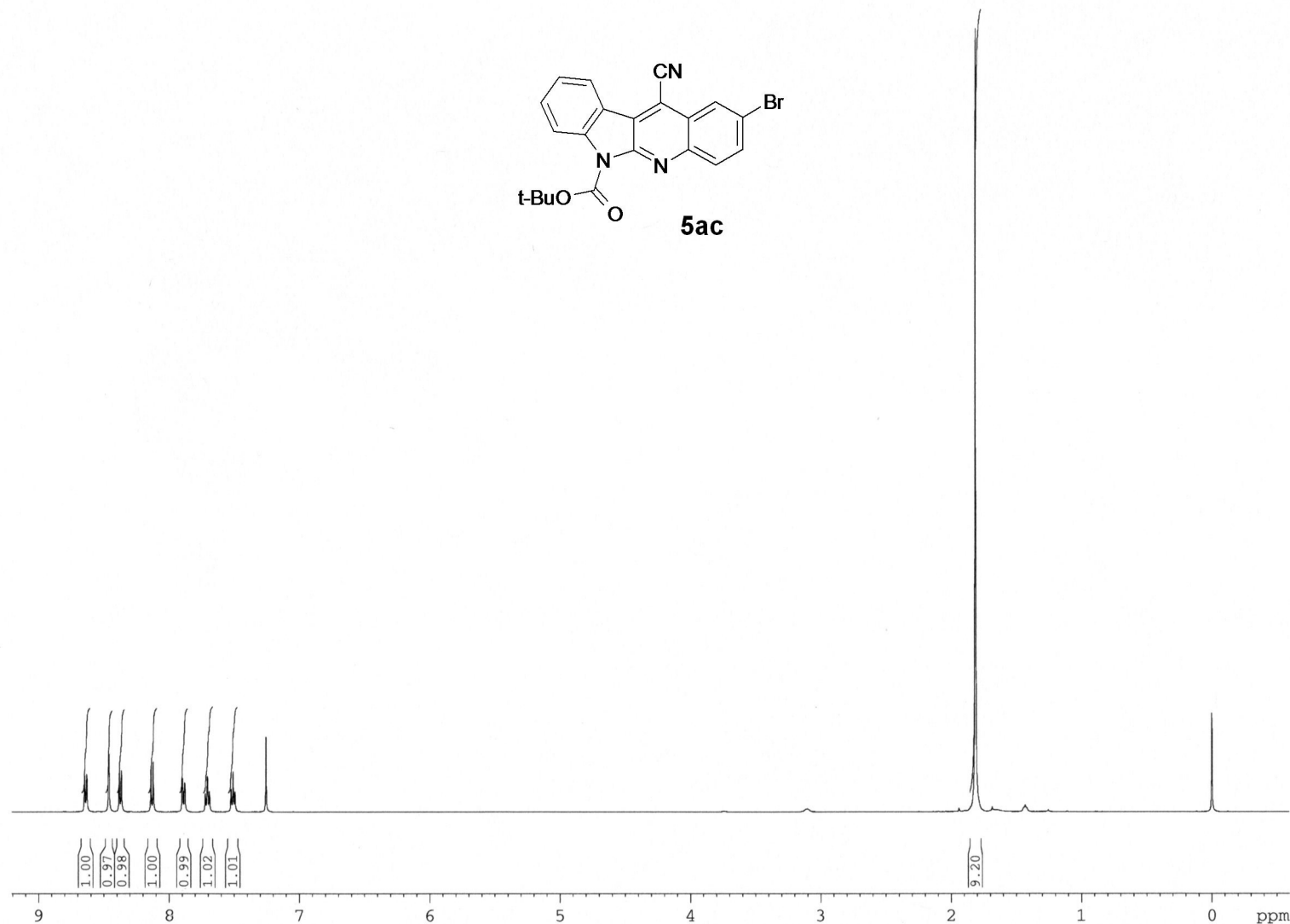
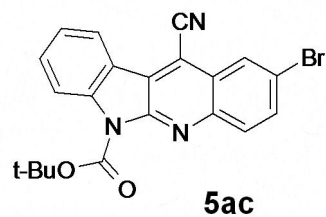
FidFile: CARBON

Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: Apr 11 2014

Temp. 25.0 C / 298.1 K  
Operator: vnmr1

Relax. delay 0.500 sec  
Pulse 30.0 degrees  
Acq. time 1.200 sec  
Width 37878.8 Hz  
2688 repetitions  
OBSERVE C13, 125.6810405 MHz  
DECOUPLE H1, 499.8272777 MHz  
Power 38 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 3.0 Hz  
FT size 131072

8.464  
8.460  
8.382  
8.365  
8.139  
8.121  
7.899  
7.896  
7.882  
7.878  
7.720  
7.705  
7.690  
7.526  
7.511  
7.496  
7.259



Current Data Parameters  
NAME MN76  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140402  
Time 11.05  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 32  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 322.5  
DW 48.400 usec  
DE 6.78 usec  
TE 303.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 8.20 usec  
PL1 5.00 dB  
SFO1 500.1330885 MHz

F2 - Processing parameters  
SI 32768  
SF 500.1300237 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00



Current Data Parameters  
NAME MN76  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140402  
Time 11.15  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zgpg  
TD 65536  
SOLVENT CDCl3  
NS 1600  
DS 4  
SWH 32679.738 Hz  
FIDRES 0.498653 Hz  
AQ 1.0027508 sec  
RG 32768  
DW 15.300 usec  
DE 7.10 usec  
TE 303.0 K  
D1 1.00000000 sec  
d11 0.03000000 sec  
DELTA 0.89999998 sec  
TD0 1

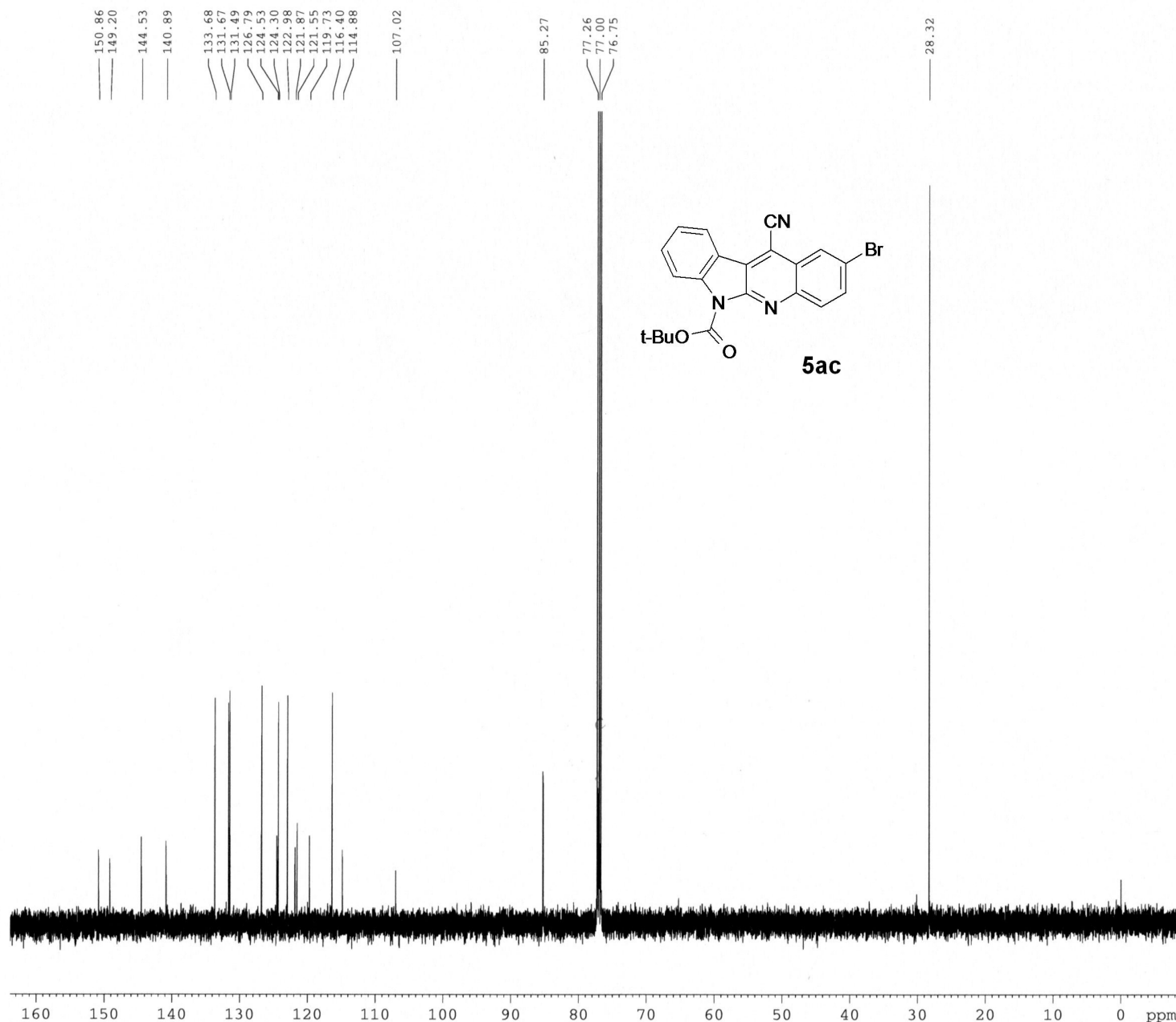
===== CHANNEL f1 =====  
NUC1 13C  
P1 5.00 usec  
PL1 -3.00 dB  
SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 98.00 usec  
PL2 3.00 dB  
PL12 23.00 dB  
PL13 32.00 dB  
SFO2 500.1320005 MHz

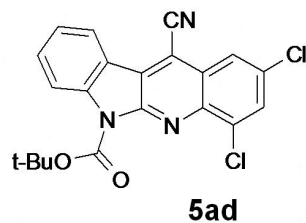
F1 - Acquisition parameters  
ND0 1  
TD 128  
SFO1 500.132 MHz  
FIDRES 7.812500 Hz  
SW 1.999 ppm  
FnMODE QF

F2 - Processing parameters  
SI 262144  
SF 125.7577928 MHz  
WDW EM  
SSB 0  
LB 0.50 Hz  
GB 0  
PC 1.40

F1 - Processing parameters  
SI 1024  
MC2 QF  
SF 500.1300000 MHz  
WDW SINE  
SSB 0  
LB 0.30 Hz  
GB 0.1



8.637  
8.622  
8.517  
8.500  
8.223  
7.912  
7.753  
7.737  
7.722  
7.540  
7.525  
7.510  
7.258



1.832  
1.546

-0.000

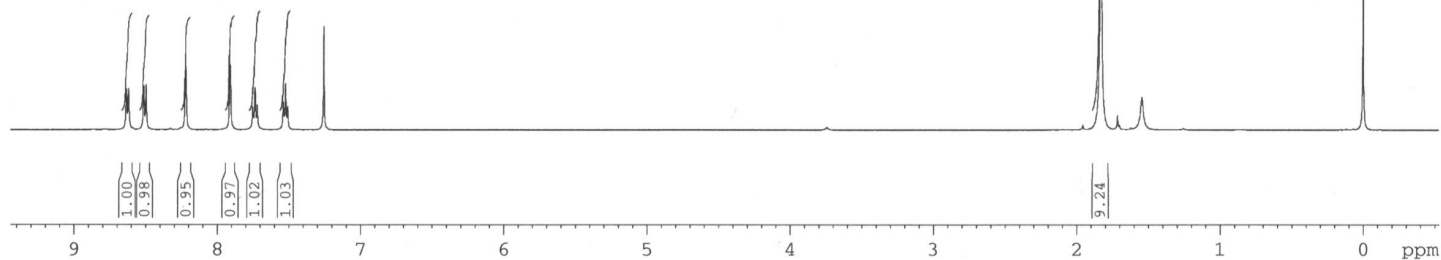


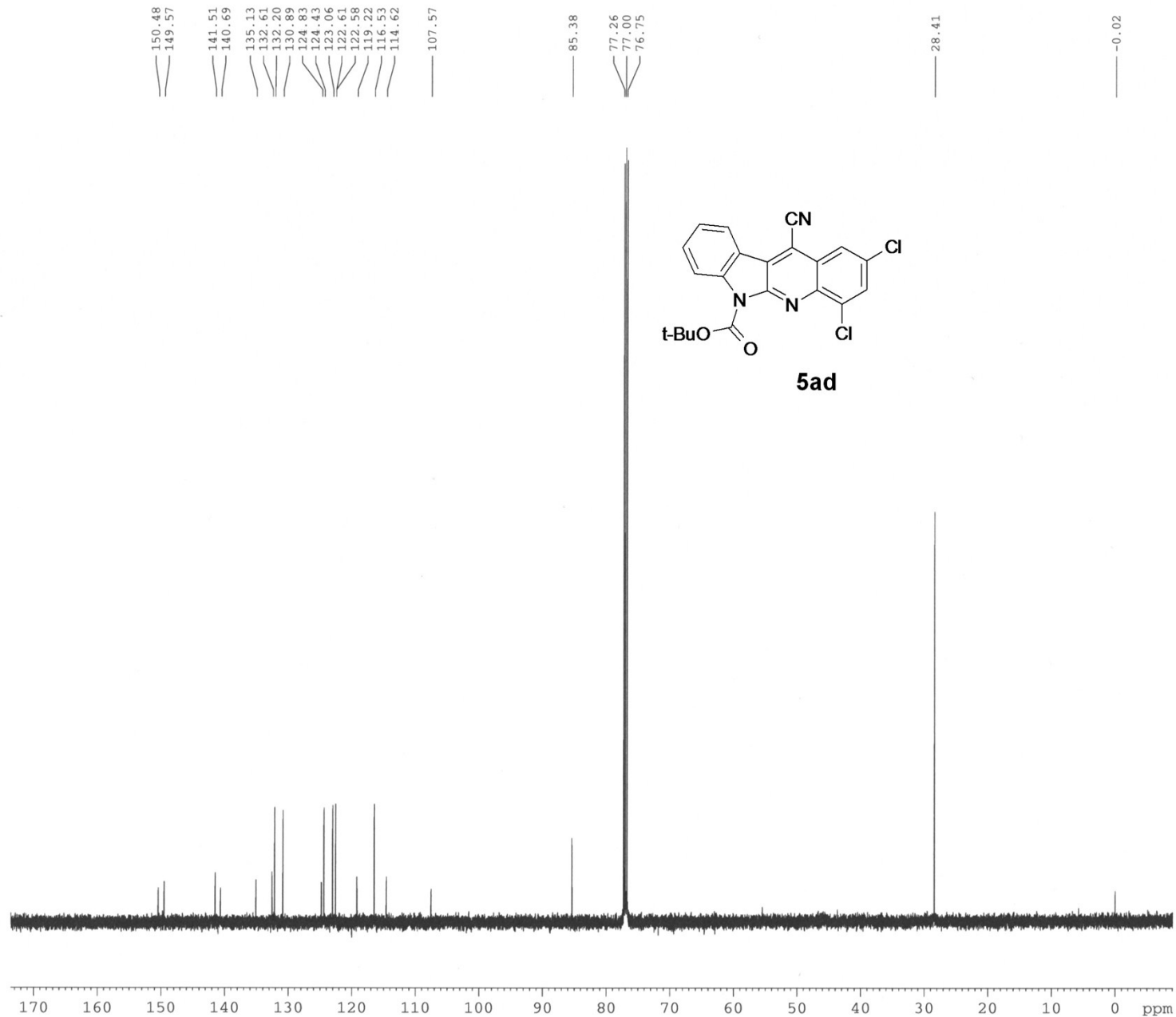
Current Data Parameters  
NAME MN200  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20141114  
Time 13.22  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 32  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 322.5  
DW 48.400 usec  
DE 6.78 usec  
TE 303.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 8.20 usec  
PL1 5.00 dB  
SFO1 500.1330885 MHz

F2 - Processing parameters  
SI 32768  
SF 500.1300244 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00





Current Data Parameters  
 NAME MN200  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20141114  
 Time 14.05  
 INSTRUM DRX  
 PROBHD 5 mm TBI 1H/13  
 PULPROG zgpg  
 TD 65536  
 SOLVENT CDCl3  
 NS 3000  
 DS 4  
 SWH 32679.738 Hz  
 FIDRES 0.498653 Hz  
 AQ 1.0027508 sec  
 RG 32768  
 DW 15.300 usec  
 DE 7.10 usec  
 TE 303.0 K  
 D1 1.00000000 sec  
 d11 0.03000000 sec  
 DELTA 0.89999998 sec  
 TD0 1

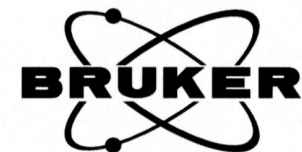
===== CHANNEL f1 =====  
 NUC1 13C  
 P1 5.00 usec  
 PL1 -3.00 dB  
 SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
 CPDPRG2 waltz16  
 NUC2 1H  
 PCPD2 98.00 usec  
 PL2 3.00 dB  
 PL12 23.00 dB  
 PL13 32.00 dB  
 SFO2 500.1320005 MHz

F1 - Acquisition parameters  
 ND0 1  
 TD 128  
 SFO1 500.132 MHz  
 FIDRES 7.812500 Hz  
 SW 1.999 ppm  
 FnmODE QF

F2 - Processing parameters  
 SI 262144  
 SF 125.7577925 MHz  
 WDW EM  
 SSB 0  
 LB 0.50 Hz  
 GB 0  
 PC 1.40

F1 - Processing parameters  
 SI 1024  
 MC2 QF  
 SF 500.1300000 MHz  
 WDW SINE  
 SSB 0  
 LB 0.30 Hz  
 GB 0.1

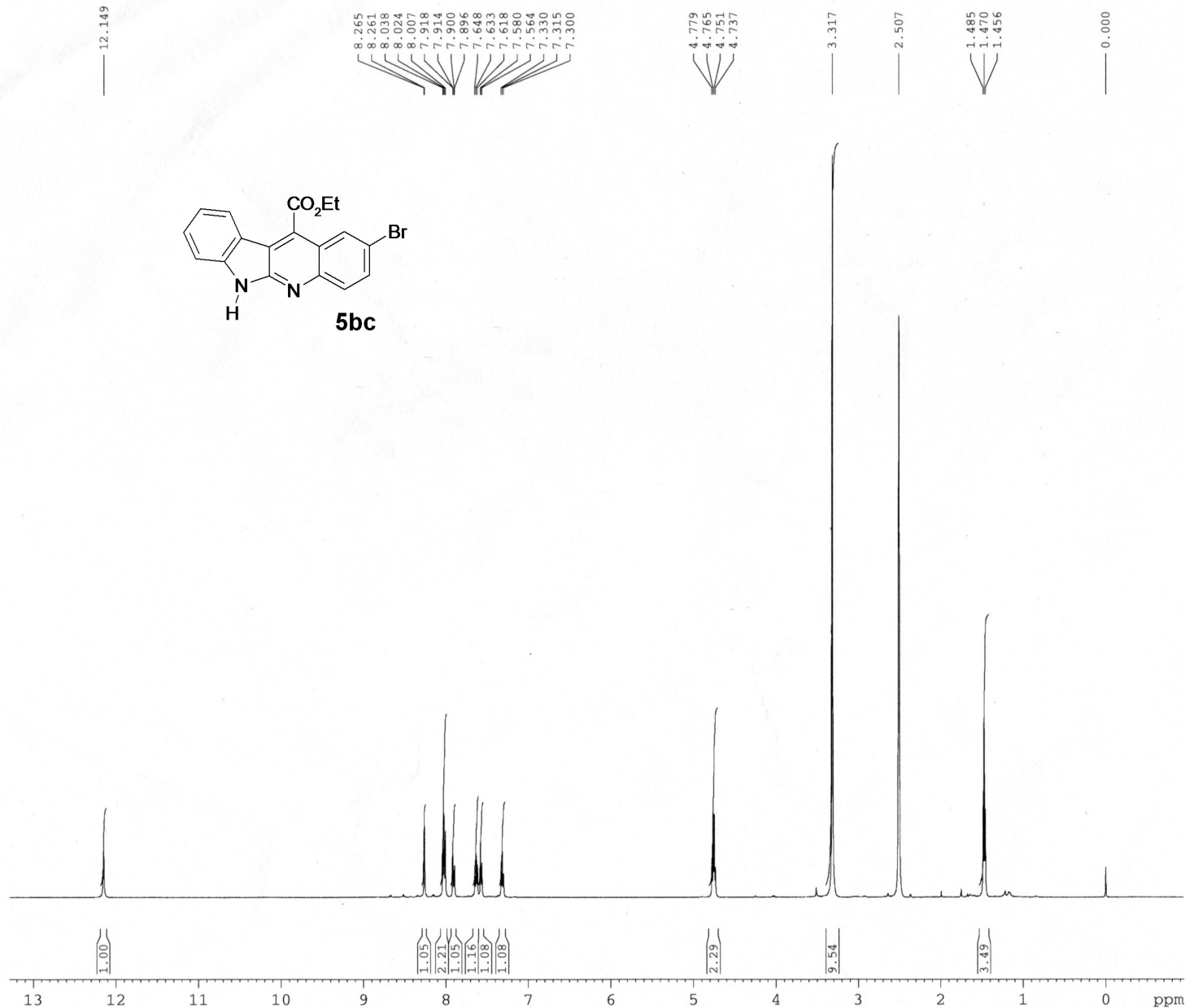


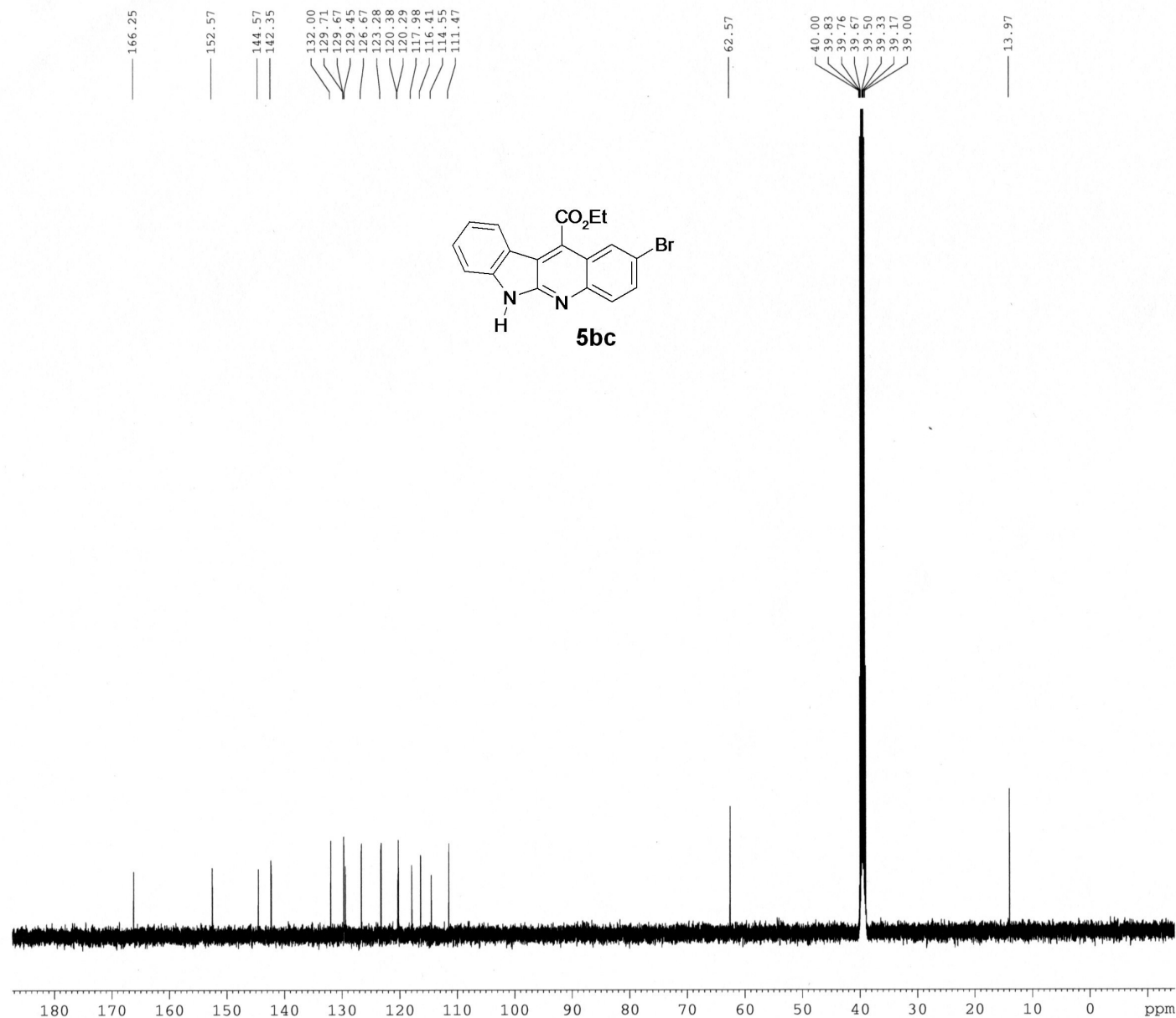
Current Data Parameters  
 NAME MN276-2  
 EXPNO 1  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20150624  
 Time 14.10  
 INSTRUM DRX  
 PROBHD 5 mm TBI 1H/13  
 PULPROG zg30  
 TD 65536  
 SOLVENT DMSO  
 NS 32  
 DS 0  
 SWH 10330.578 Hz  
 FIDRES 0.157632 Hz  
 AQ 3.1719923 sec  
 RG 256  
 DW 48.400 usec  
 DE 6.78 usec  
 TE 303.0 K  
 D1 1.00000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 8.20 usec  
 PL1 5.00 dB  
 SFO1 500.1330885 MHz

F2 - Processing parameters  
 SI 32768  
 SF 500.1300012 MHz  
 WDW no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 PC 1.00





Current Data Parameters  
 NAME MN276-2  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20150624  
 Time 14.22  
 INSTRUM DRX  
 PROBHD 5 mm TBI 1H/13  
 PULPROG zgpg  
 TD 65536  
 SOLVENT DMSO  
 NS 2000  
 DS 4  
 SWH 32679.738 Hz  
 FIDRES 0.498653 Hz  
 AQ 1.0027508 sec  
 RG 32768  
 DW 15.300 usec  
 DE 7.10 usec  
 TE 303.0 K  
 D1 1.00000000 sec  
 d11 0.03000000 sec  
 DELTA 0.89999998 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 13C  
 P1 5.00 usec  
 PL1 -3.00 dB  
 SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
 CPDPRG2 waltz16  
 NUC2 1H  
 PCPD2 98.00 usec  
 PL2 3.00 dB  
 PL12 23.00 dB  
 PL13 32.00 dB  
 SFO2 500.1320005 MHz

F1 - Acquisition parameters  
 ND0 1  
 TD 128  
 SFO1 500.132 MHz  
 FIDRES 7.812500 Hz  
 SW 1.999 ppm  
 FnmODE QF

F2 - Processing parameters  
 SI 262144  
 SF 125.7578563 MHz  
 WDW EM  
 SSB 0  
 LB 0.50 Hz  
 GB 0  
 PC 1.40

F1 - Processing parameters  
 SI 1024  
 MC2 QF  
 SF 500.1300000 MHz  
 WDW SINE  
 SSB 0  
 LB 0.30 Hz  
 GB 0.1

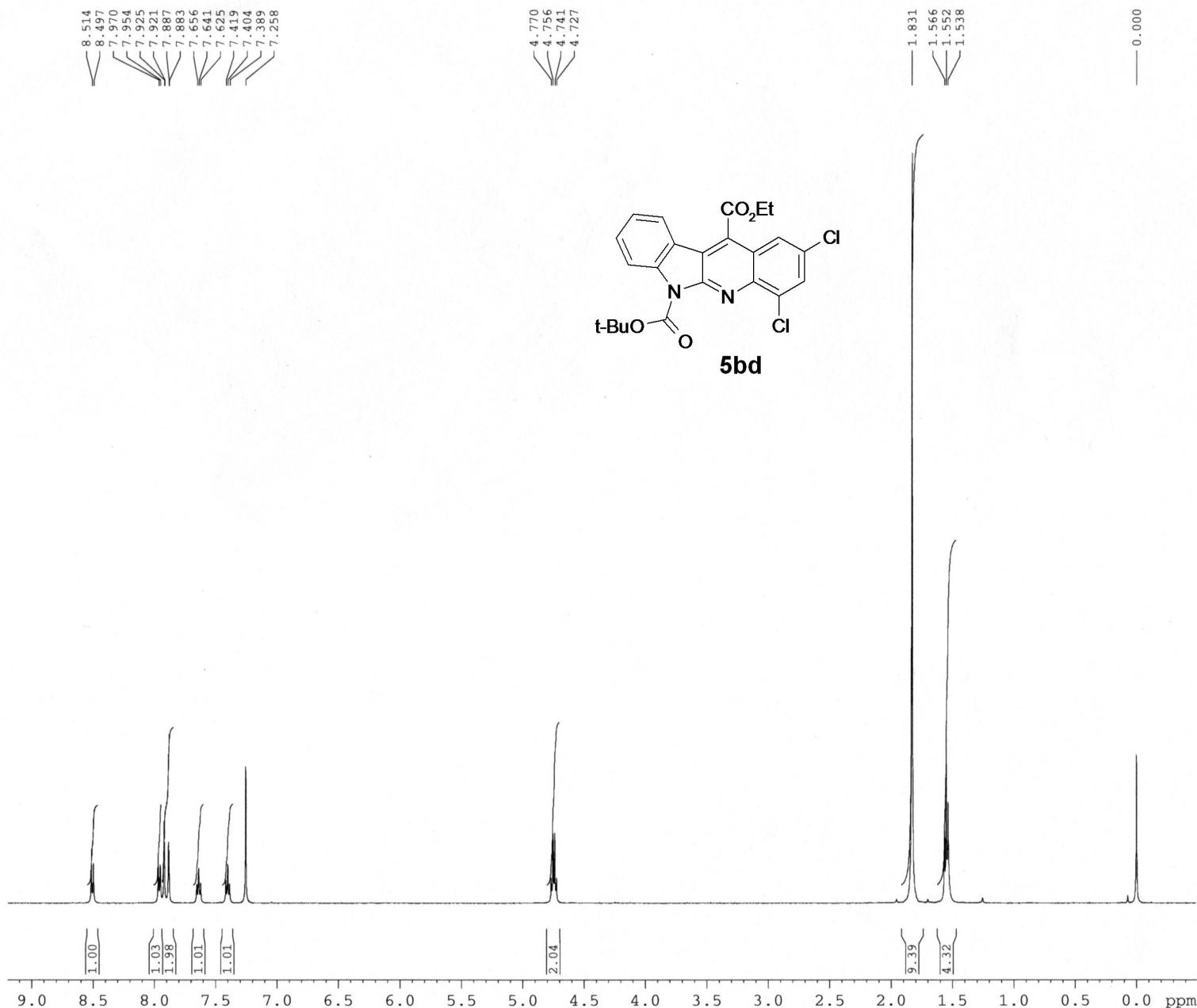
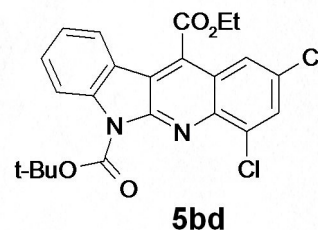


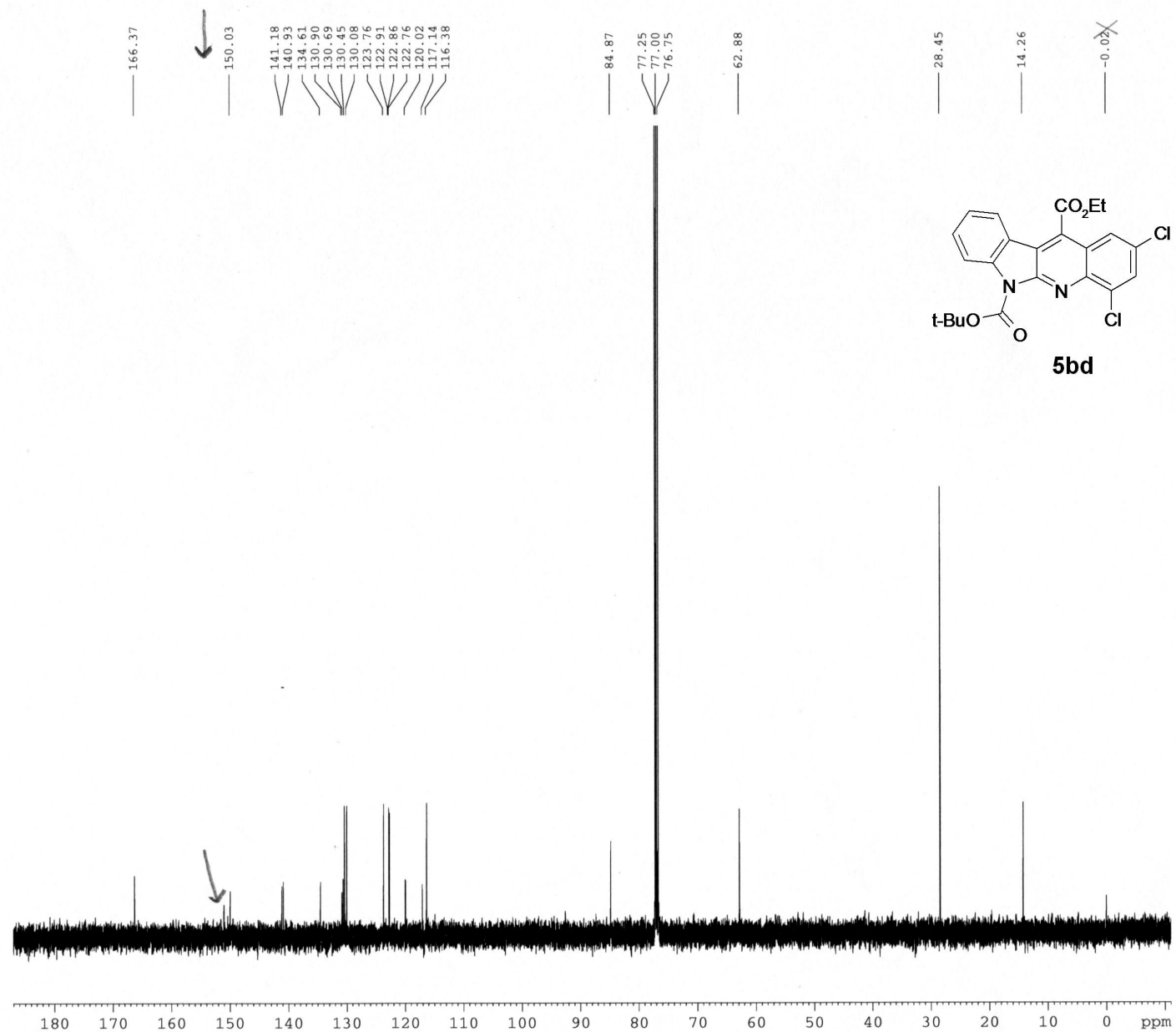
Current Data Parameters  
 NAME MN275  
 EXPNO 1  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20150611  
 Time 11.33  
 INSTRUM DRX  
 PROBHD 5 mm TBI 1H/13  
 PULPROG zg30  
 TD 65536  
 SOLVENT CDC13  
 NS 32  
 DS 0  
 SWH 10330.578 Hz  
 FIDRES 0.157632 Hz  
 AQ 3.1719923 sec  
 RG 456.1  
 DW 48.400 usec  
 DE 6.78 usec  
 TE 303.0 K  
 D1 1.00000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 8.20 usec  
 PL1 5.00 dB  
 SFO1 500.1330885 MHz

F2 - Processing parameters  
 SI 32768  
 SF 500.1300249 MHz  
 WDW no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 PC 1.00





Current Data Parameters  
 NAME MN275  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20150611  
 Time 12.44  
 INSTRUM DRX  
 PROBHD 5 mm TBI 1H/13  
 PULPROG zgpg  
 TD 65536  
 SOLVENT CDC13  
 NS 2000  
 DS 4  
 SWH 32679.738 Hz  
 FIDRES 0.498653 Hz  
 AQ 1.0027508 sec  
 RG 32768  
 DW 15.300 usec  
 DE 7.10 usec  
 TE 303.0 K  
 D1 1.00000000 sec  
 d11 0.03000000 sec  
 DELTA 0.89999998 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 13C  
 FL 5.00 usec  
 PL1 -3.00 dB  
 SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
 CPDPRG2 waltz16  
 NUC2 1H  
 FCPD2 98.00 usec  
 FL2 3.00 dB  
 PL12 23.00 dB  
 PL13 32.00 dB  
 SFO2 500.1320005 MHz

F1 - Acquisition parameters  
 ND0 1  
 TD 128  
 SFO1 500.132 MHz  
 FIDRES 7.812500 Hz  
 SW 1.999 ppm  
 FhMODE QF

F2 - Processing parameters  
 SI 262144  
 SF 125.7577923 MHz  
 WDW EM  
 SSB 0  
 LB 0.50 Hz  
 GB 0  
 PC 1.40

F1 - Processing parameters  
 SI 1024  
 MC2 QF  
 SF 500.1300000 MHz  
 WDW SINE  
 SSB 0  
 LB 0.30 Hz  
 GB 0.1

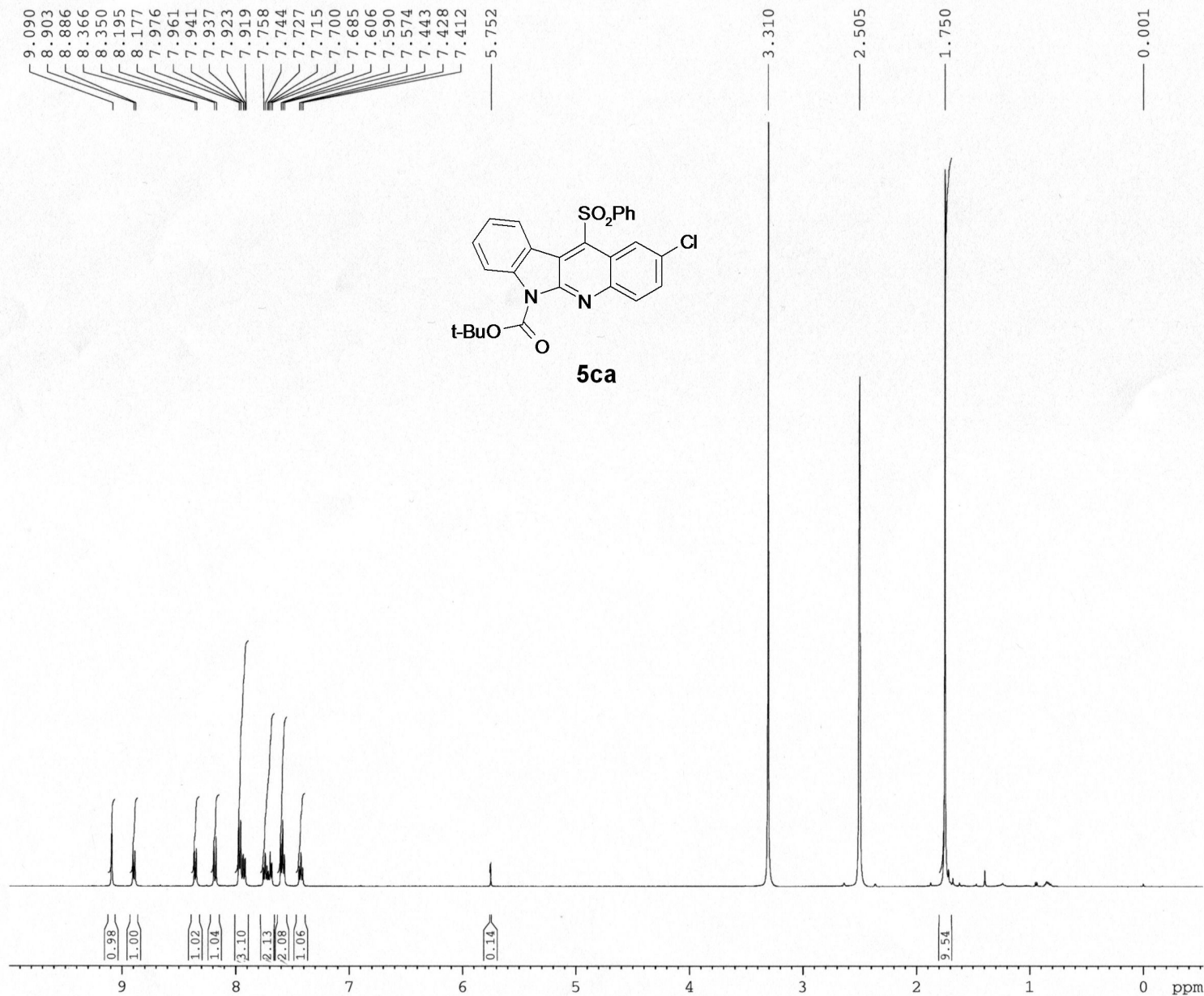
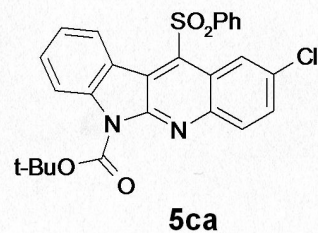


Current Data Parameters  
NAME MN121  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140606  
Time 10.34  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zg30  
TD 65536  
SOLVENT DMSO  
NS 32  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 228.1  
DW 48.400 usec  
DE 6.78 usec  
TE 303.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 8.20 usec  
PL1 5.00 dB  
SF01 500.1330885 MHz

F2 - Processing parameters  
SI 32768  
SF 500.1300028 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00





Current Data Parameters  
NAME MN121  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140606  
Time 11.04  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zgpg  
TD 65536  
SOLVENT DMSO  
NS 5000  
DS 4  
SWH 32679.738 Hz  
FIDRES 0.498653 Hz  
AQ 1.0027508 sec  
RG 32768  
DW 15.300 usec  
DE 7.10 usec  
TE 303.0 K  
D1 1.00000000 sec  
d11 0.03000000 sec  
DELTA 0.89999998 sec  
TD0 1

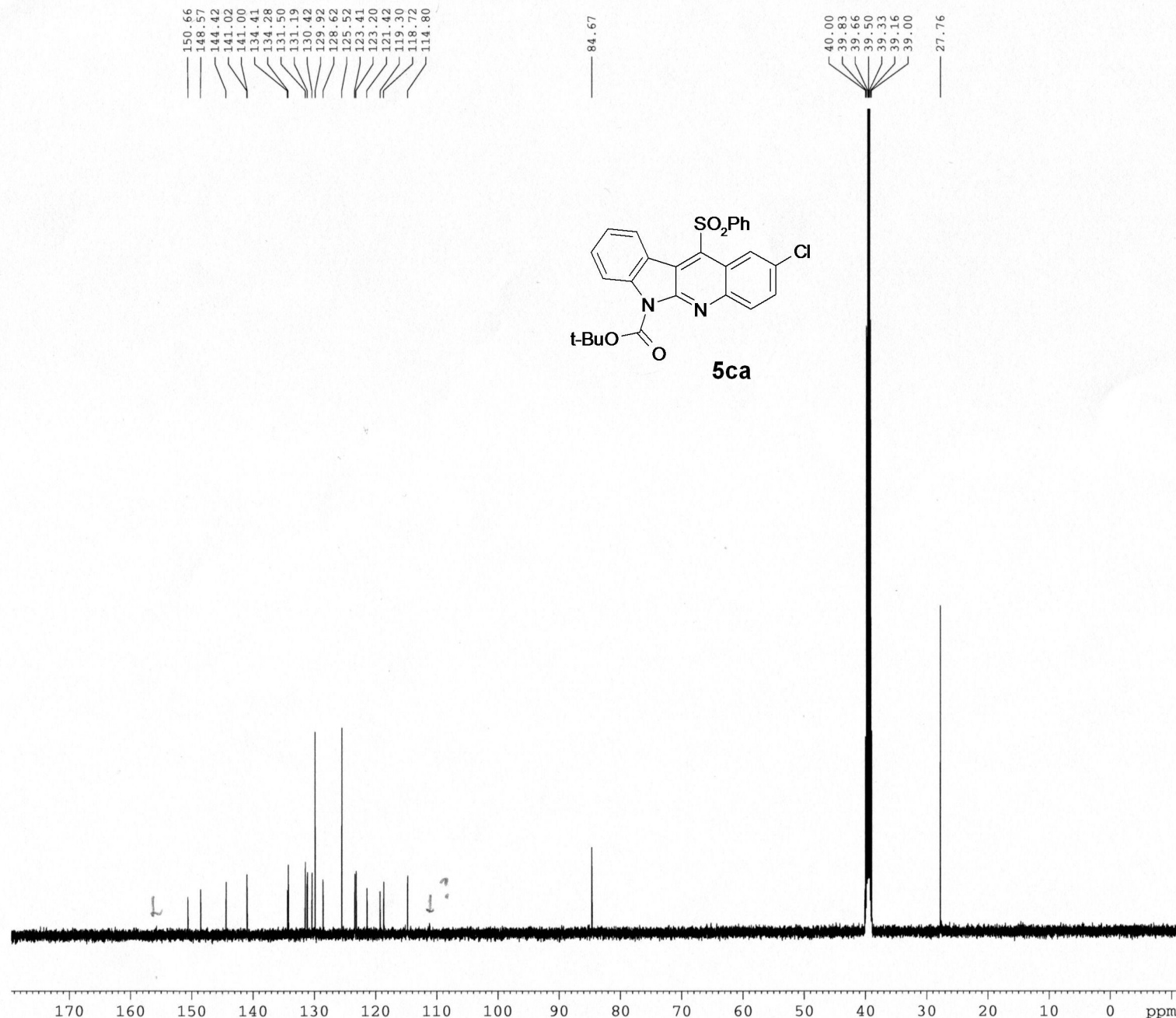
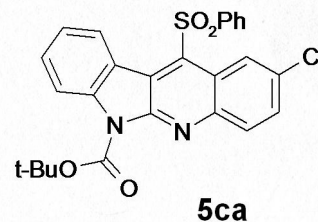
===== CHANNEL f1 =====  
NUC1 13C  
P1 5.00 usec  
PL1 -3.00 dB  
SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 98.00 usec  
PL2 3.00 dB  
PL12 23.00 dB  
PL13 32.00 dB  
SFO2 500.1320005 MHz

F1 - Acquisition parameters  
ND0 1  
TD 128  
SFO1 500.132 MHz  
FIDRES 7.812500 Hz  
SW 1.999 ppm  
FnMODE QF

F2 - Processing parameters  
SI 262144  
SF 125.7578567 MHz  
WDW EM  
SSB 0  
LB 0.50 Hz  
GB 0  
PC 1.40

F1 - Processing parameters  
SI 1024  
MC2 QF  
SF 500.1300000 MHz  
WDW SINE  
SSB 0  
LB 0.30 Hz  
GB 0.1





# Current Data Parameters

NAME MN232  
EXPNO 1  
PROCNO 1

# F2 - Acquisition Parameters

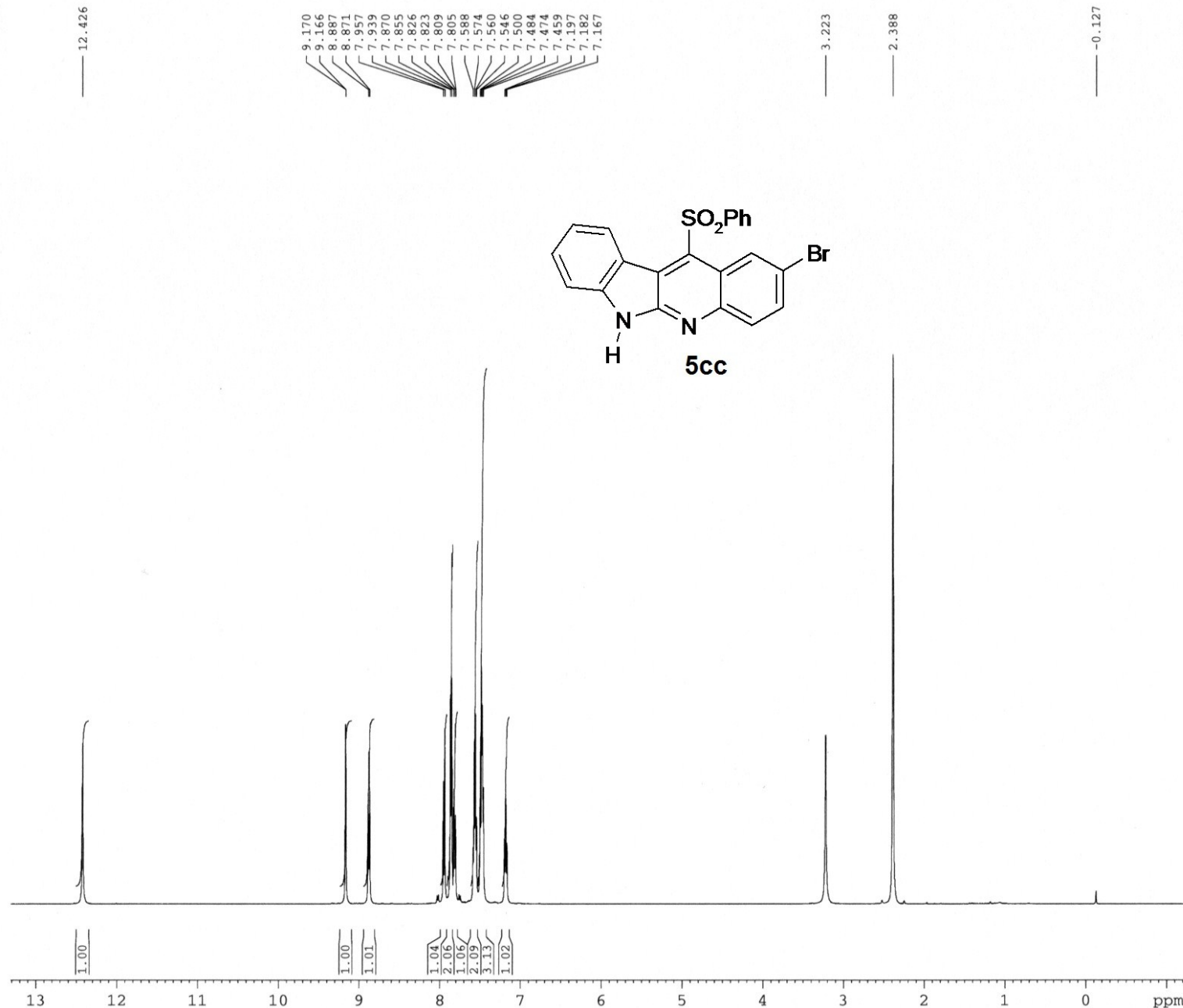
Date\_ 20150318  
Time 11.02  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zg30  
TD 65536  
SOLVENT DMSO  
NS 32  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 181  
DW 48.400 usec  
DE 6.78 usec  
TE 303.0 K  
D1 1.00000000 sec  
TD0 1

# ===== CHANNEL f1 =====

NUC1 1H  
P1 8.20 usec  
PL1 5.00 dB  
SFO1 500.1330885 MHz

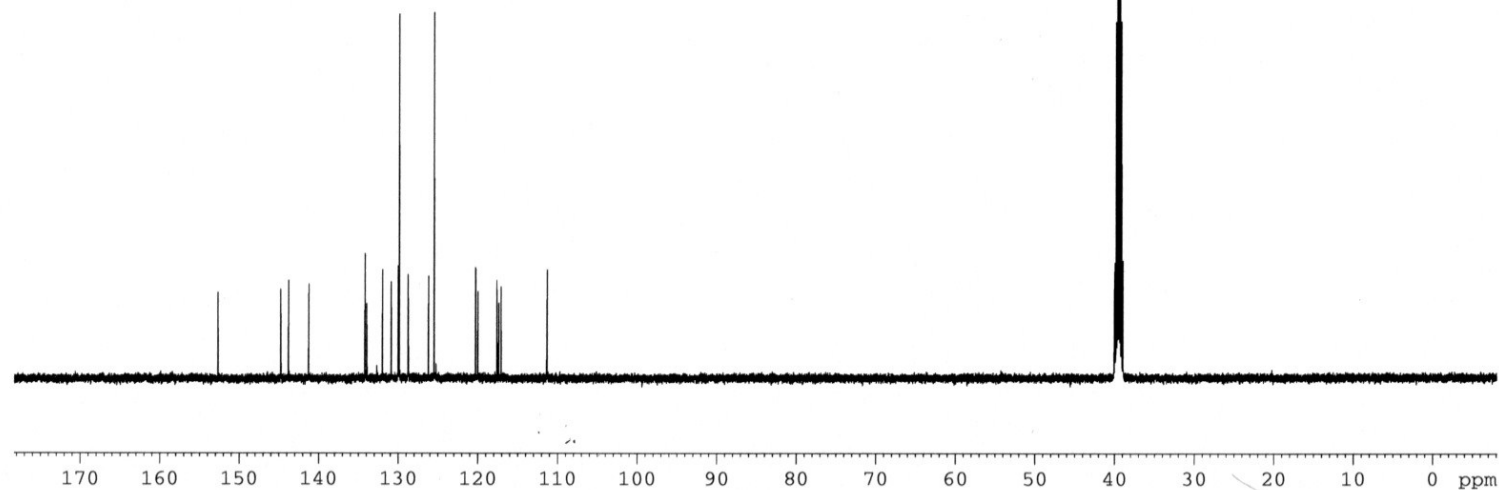
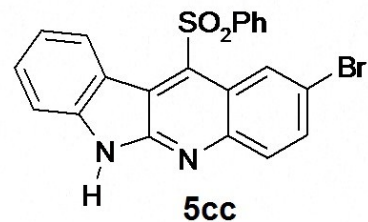
# F2 - Processing parameters

SI 32768  
SF 500.1300623 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00



152.72  
144.82  
143.83  
141.28  
134.23  
134.01  
132.03  
130.92  
130.06  
129.92  
128.80  
126.24  
125.53  
120.32  
120.03  
117.67  
117.42  
117.16  
111.36

40.00  
39.83  
39.66  
39.50  
39.33  
39.16  
39.00



Current Data Parameters  
NAME MN232  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150318  
Time 11.04  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zgpg  
TD 65536  
SOLVENT DMSO  
NS 2800  
DS 4  
SWH 32679.738 Hz  
FIDRES 0.498653 Hz  
AQ 1.0027508 sec  
RG 32768  
DW 15.300 usec  
DE 7.10 usec  
TE 303.0 K  
D1 1.00000000 sec  
d11 0.03000000 sec  
DELTA 0.89999998 sec  
TD0 1

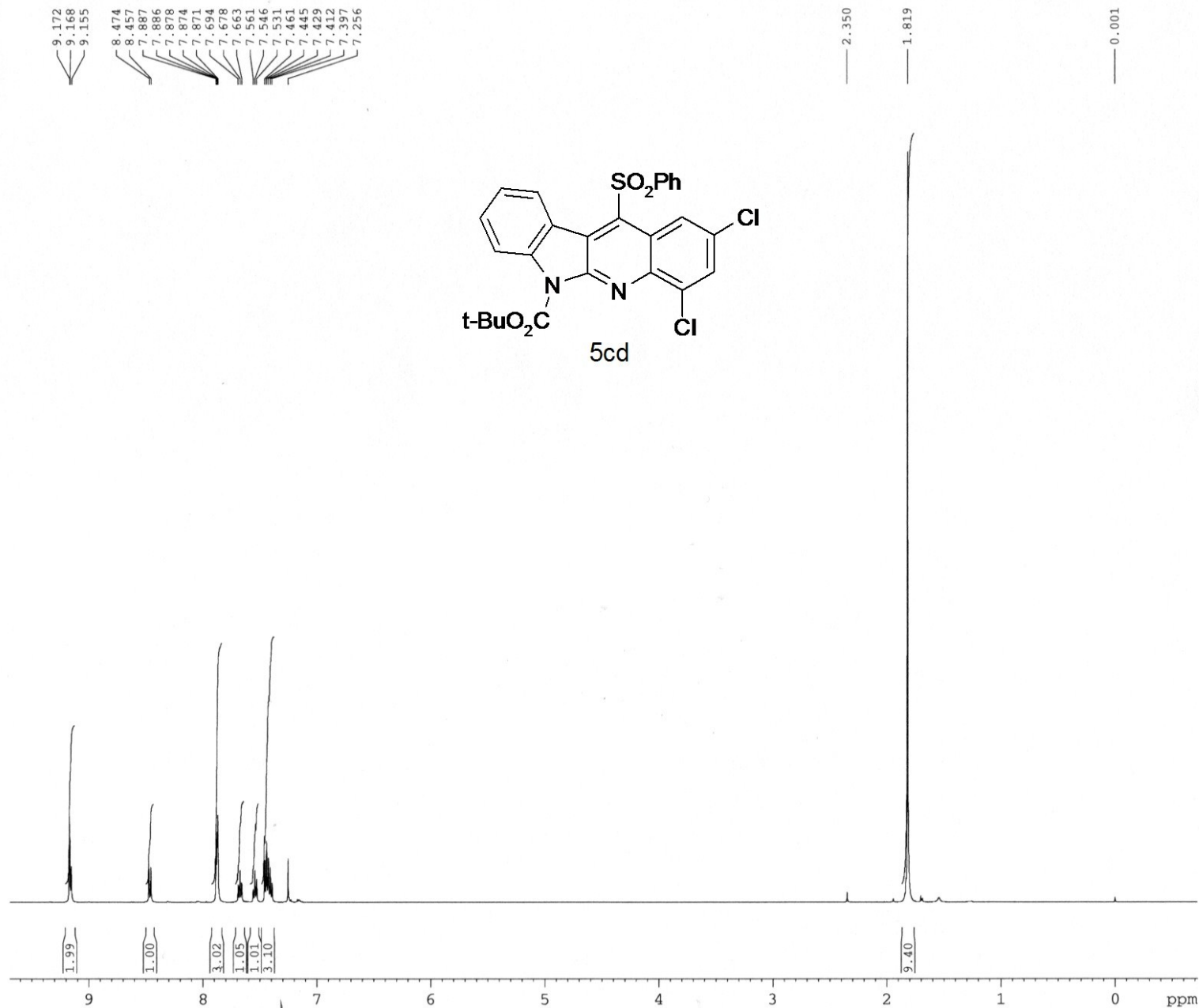
===== CHANNEL f1 =====  
NUC1 13C  
P1 5.00 usec  
PL1 -3.00 dB  
SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 98.00 usec  
PL2 3.00 dB  
PL12 23.00 dB  
PL13 32.00 dB  
SFO2 500.1320005 MHz

F1 - Acquisition parameters  
ND0 1  
TD 128  
SFO1 500.132 MHz  
FIDRES 7.812500 Hz  
SW 1.999 ppm  
FnMODE QF

F2 - Processing parameters  
SI 262144  
SF 125.7578577 MHz  
WDW EM  
SSB 0  
LB 0.50 Hz  
GB 0  
PC 1.40

F1 - Processing parameters  
SI 1024  
MC2 QF  
SF 500.1300000 MHz  
WDW SINE  
SSB 0  
LB 0.30 Hz  
GB 0.1

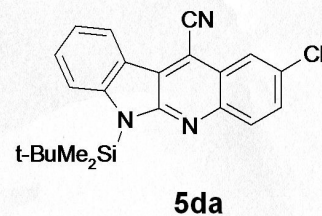


Current Data Parameters  
 NAME MN227  
 EXPNO 1  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20150122  
 Time 11.08  
 INSTRUM DRX  
 PROBHD 5 mm TBI 1H/13  
 PULPROG zg30  
 TD 65536  
 SOLVENT CDCl3  
 NS 32  
 DS 0  
 SWH 10330.578 Hz  
 FIDRES 0.157632 Hz  
 AQ 3.1719923 sec  
 RG 203.2  
 DW 48.400 usec  
 DE 6.78 usec  
 TE 303.0 K  
 D1 1.00000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 8.20 usec  
 PL1 5.00 dB  
 SFO1 500.1330885 MHz

F2 - Processing parameters  
 SI 32768  
 SF 500.1300259 MHz  
 WDW no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 PC 1.00



M.Nowacki

Sample Name:  
MN-155  
Data Collected on:  
Varian-NMR-vnmrs500  
Archive directory:

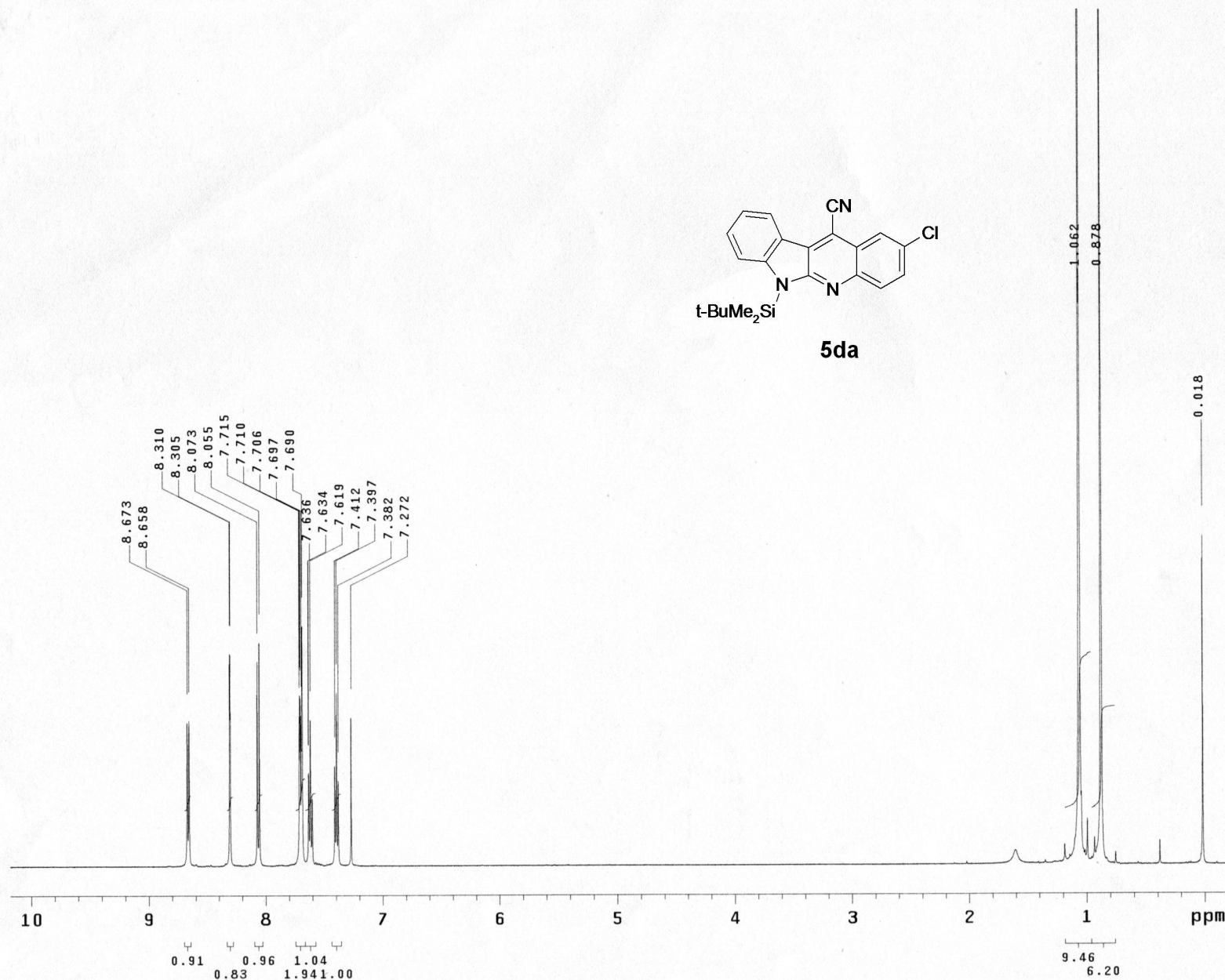
Sample directory:

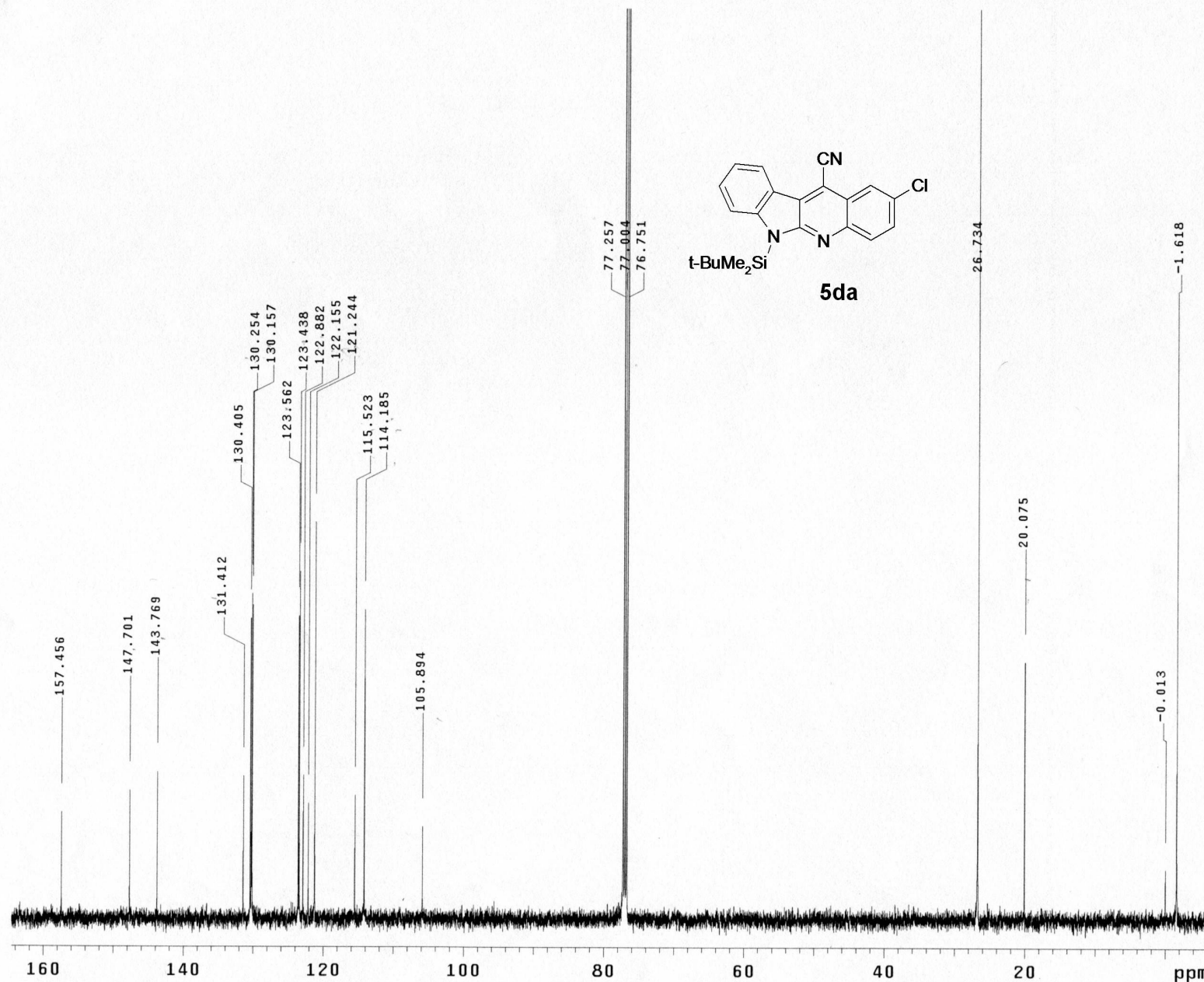
FidFile: PROTON

Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3  
Data collected on: Jul 23 2014

Temp. 25.0 C / 298.1 K  
Operator: vnmr1

Relax. delay 1.000 sec  
Pulse 45.0 degrees  
Acq. time 3.500 sec  
Width 6684.5 Hz  
16 repetitions  
OBSERVE H1, 499.8247721 MHz  
DATA PROCESSING  
FT size 65536





M.Nowacki  
zespl/Var500/MN-155/MN-155-C13

Sample Name:  
MN-155  
Data Collected on:  
Varian-NMR-vnmrs500  
Archive directory:

Sample directory:

FidFile: CARBON

Pulse Sequence: CARBON (s2pu1)  
Solvent: cdc13  
Data collected on: Jul 23 2014

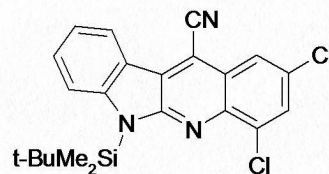
Temp. 25.0 C / 298.1 K  
Operator: vnmr1

Relax. delay 0.500 sec  
Pulse 30.0 degrees  
Acq. time 1.200 sec  
Width 37878.8 Hz  
480 repetitions  
OBSERVE C13, 125.6810405 MHz  
DECOUPLE H1, 499.8272777 MHz  
Power 38 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 1.0 Hz  
FT size 131072

8.661  
8.646  
8.230  
8.225  
7.867  
7.863  
7.715  
7.698  
7.652  
7.651  
7.636  
7.621  
7.619  
7.421  
7.406  
7.391  
7.255

1.053  
0.918

0.000



5dd

Current Data Parameters  
NAME MN161  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters

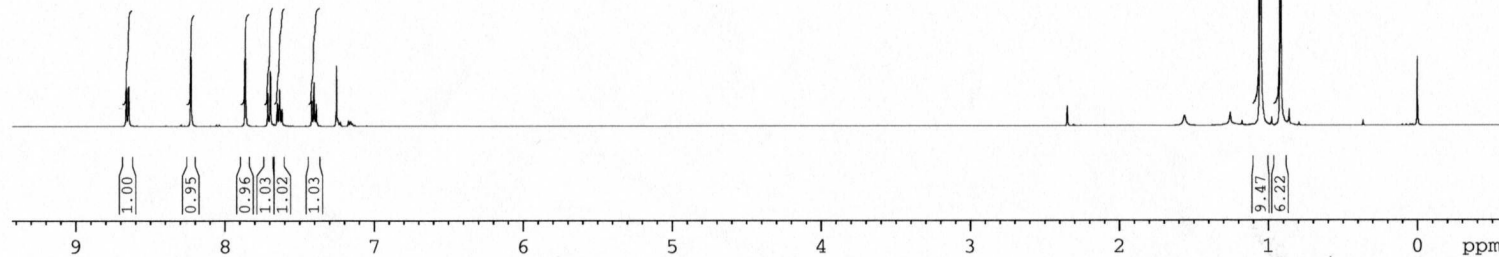
Date\_ 20140812  
Time 9.41  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 32  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 181  
DW 48.400 usec  
DE 6.78 usec  
TE 303.0 K  
D1 1.00000000 sec  
TD0 1

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

NUC1 1H  
P1 8.20 usec  
PL1 5.00 dB  
SFO1 500.1330885 MHz

F2 - Processing parameters

SI 32768  
SF 500.1300261 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00





Current Data Parameters  
NAME MN161  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140812  
Time 9.58  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zgpg  
TD 65536  
SOLVENT CDCl3  
NS 2000  
DS 4  
SWH 32679.738 Hz  
FIDRES 0.498653 Hz  
AQ 1.0027508 sec  
RG 32768  
DW 15.300 usec  
DE 7.10 usec  
TE 303.0 K  
D1 1.00000000 sec  
d11 0.03000000 sec  
DELTA 0.89999998 sec  
TD0 1

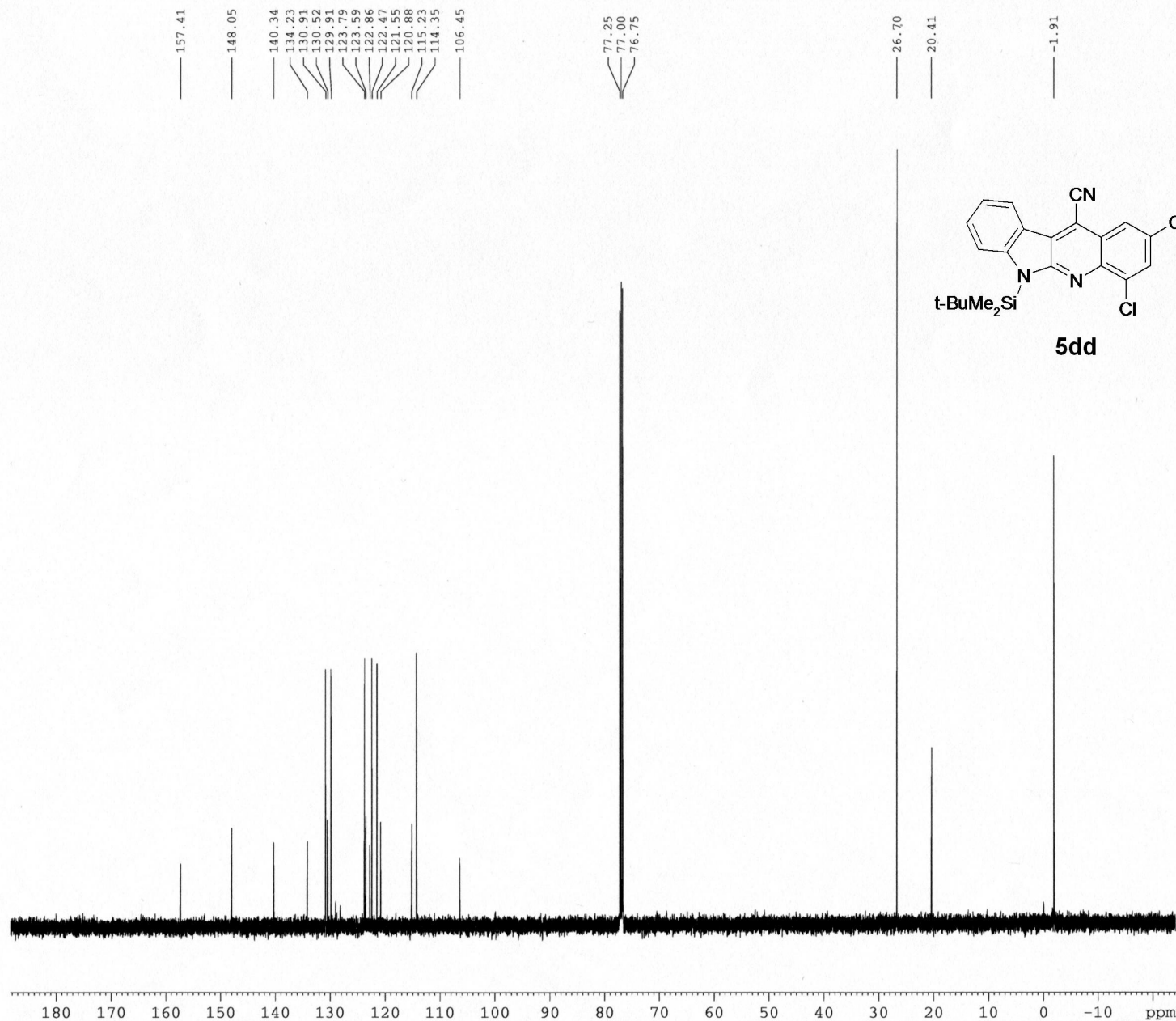
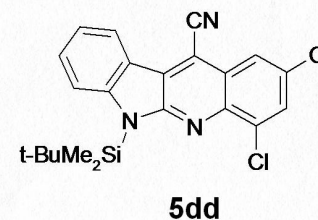
===== CHANNEL f1 =====  
NUC1 13C  
P1 5.00 usec  
PL1 -3.00 dB  
SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 98.00 usec  
PL2 3.00 dB  
PL12 23.00 dB  
PL13 32.00 dB  
SFO2 500.1320005 MHz

F1 - Acquisition parameters  
ND0 1  
TD 128  
SFO1 500.132 MHz  
FIDRES 7.812500 Hz  
SW 1.999 ppm  
FnMODE QF

F2 - Processing parameters  
SI 262144  
SF 125.7577928 MHz  
WDW EM  
SSB 0  
LB 0.50 Hz  
GB 0  
PC 1.40

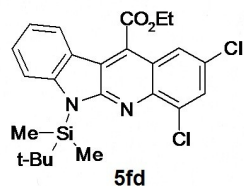
F1 - Processing parameters  
SI 1024  
MC2 QF  
SF 500.1300000 MHz  
WDW SINE  
SSB 0  
LB 0.30 Hz  
GB 0.1



8.053  
8.038  
7.955  
7.954  
7.950  
7.811  
7.807  
7.682  
7.665  
7.550  
7.548  
7.534  
7.518  
7.517  
7.297  
7.282  
7.267  
7.253

4.772  
4.758  
4.744  
4.729

1.567  
1.553  
1.538  
1.337  
1.285  
1.255  
1.066  
0.977  
0.902  
— 0.364  
— 0.000

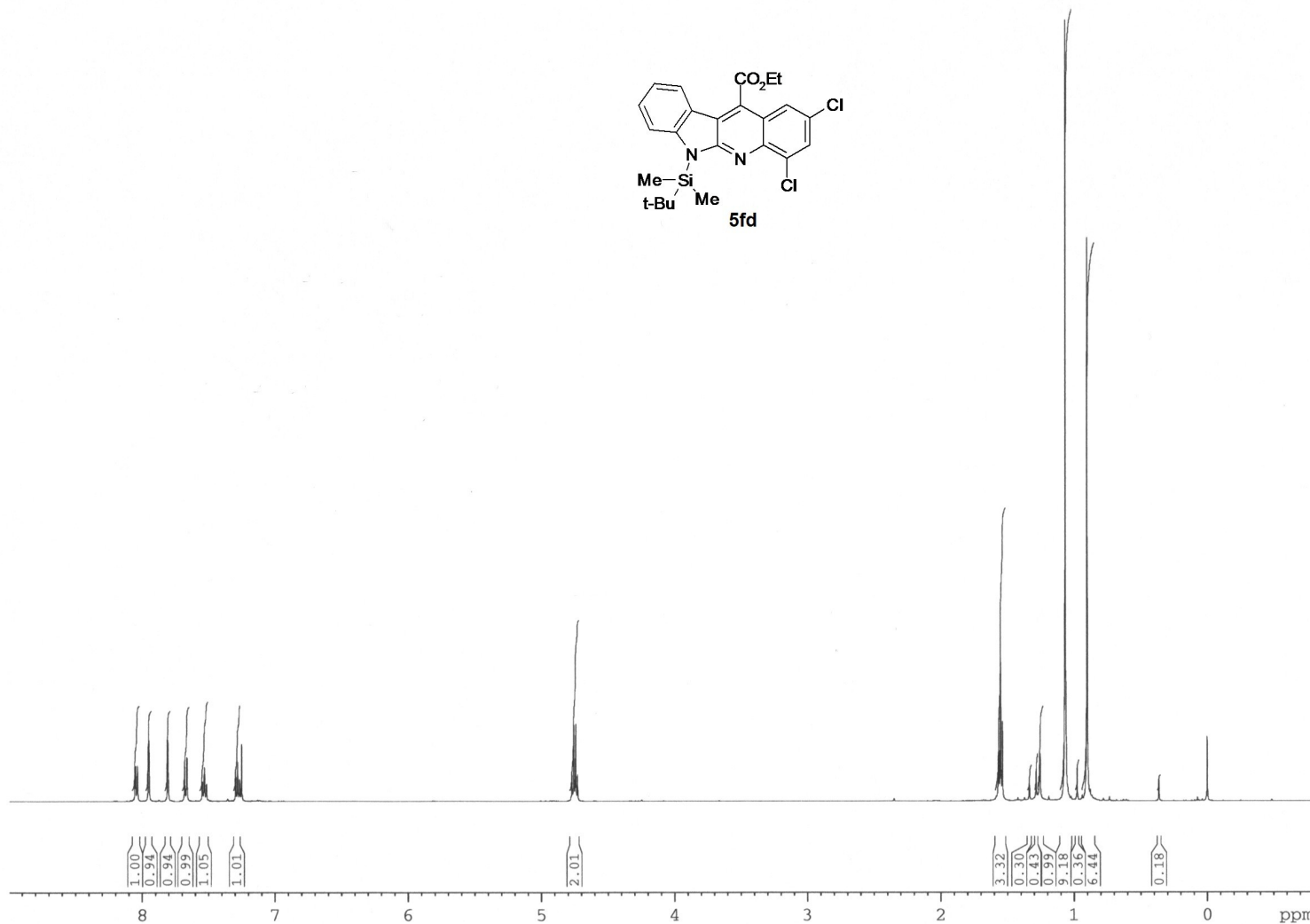


Current Data Parameters  
NAME MN159  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140825  
Time 12.55  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zg30  
TD 65536  
SOLVENT CDC13  
NS 32  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 114  
DW 48.400 usec  
DE 6.78 usec  
TE 303.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 8.20 usec  
PL1 5.00 dB  
SFO1 500.1330885 MHz

F2 - Processing parameters  
SI 32768  
SF 500.1300273 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00





Current Data Parameters  
 NAME MN159  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20140825  
 Time 13.18  
 INSTRUM DRX  
 PROBHD 5 mm TBI 1H/13  
 PULPROG zgpgg  
 TD 65536  
 SOLVENT CDCl3  
 NS 880  
 DS 4  
 SWH 32679.738 Hz  
 FIDRES 0.498653 Hz  
 AQ 1.0027508 sec  
 RG 32768  
 DW 15.300 usec  
 DE 7.10 usec  
 TE 303.0 K  
 D1 1.00000000 sec  
 d11 0.03000000 sec  
 DELTA 0.89999998 sec  
 TD0 1

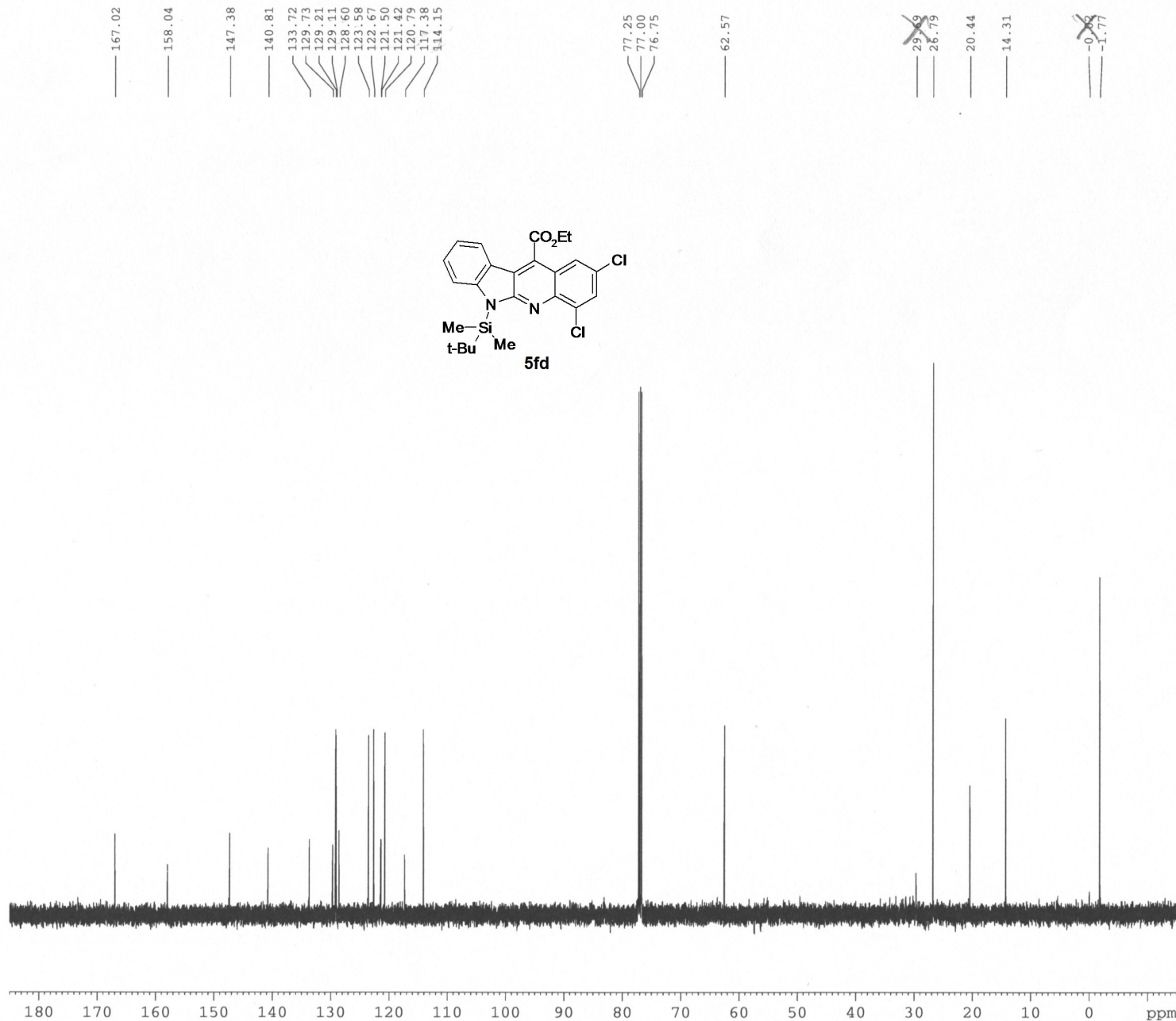
===== CHANNEL f1 =====  
 NUC1 13C  
 P1 5.00 usec  
 PL1 -3.00 dB  
 SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
 CPDPRG2 waltz16  
 NUC2 1H  
 PCPD2 98.00 usec  
 PL2 3.00 dB  
 PL12 23.00 dB  
 PL13 32.00 dB  
 SFO2 500.1320005 MHz

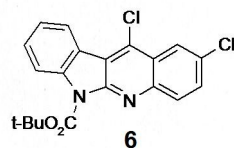
F1 - Acquisition parameters  
 ND0 1  
 TD 128  
 SFO1 500.132 MHz  
 FIDRES 7.812500 Hz  
 SW 1.999 ppm  
 FMODE QF

F2 - Processing parameters  
 SI 262144  
 SF 125.7577928 MHz  
 WDW EM  
 SSB 0  
 LB 0.50 Hz  
 GB 0  
 PC 1.40

F1 - Processing parameters  
 SI 1024  
 MC2 QF  
 SF 500.1300000 MHz  
 WDW SINE  
 SSB 0  
 LB 0.30 Hz  
 GB 0.1



8.598  
8.583  
8.318  
8.137  
8.120  
7.681  
7.664  
7.610  
7.596  
7.581  
7.440  
7.426  
7.412  
7.256



1.814

0.000



Current Data Parameters  
NAME MN37  
EXPNO 1  
PROCNO 1

# F2 - Acquisition Parameters

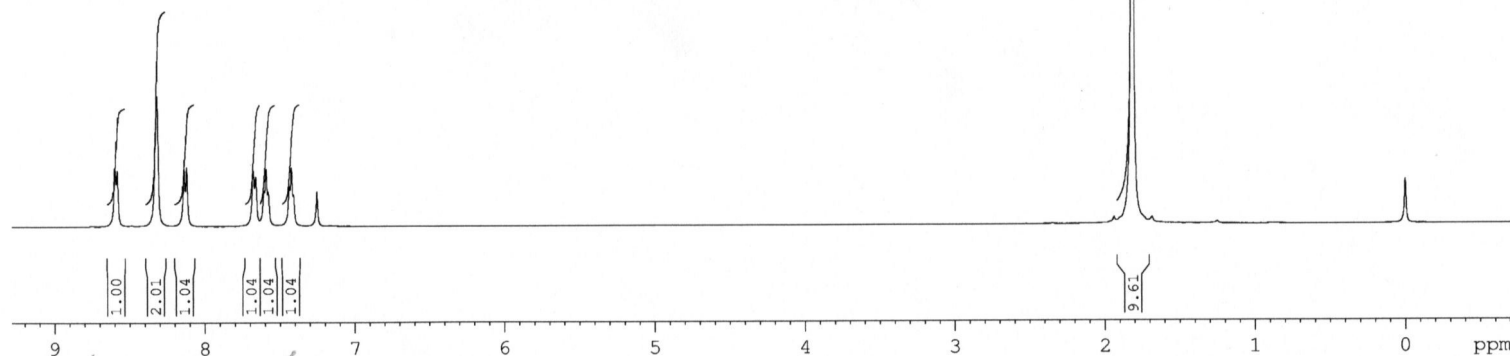
Date\_ 20140205  
Time 9.28  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 32  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 128  
DW 48.400 usec  
DE 6.78 usec  
TE 303.0 K  
D1 1.00000000 sec  
TD0 1

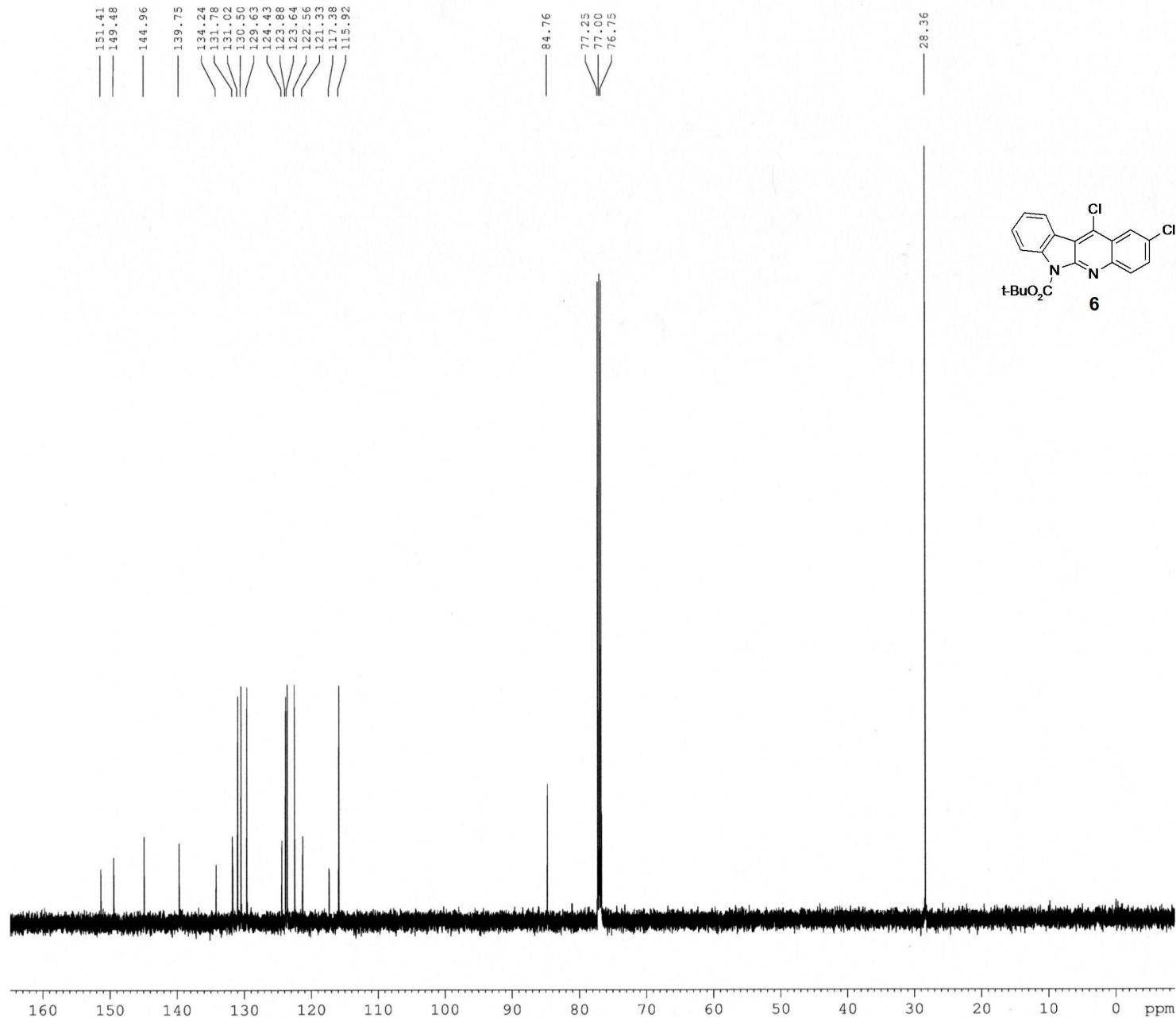
# ===== CHANNEL f1 =====

NUC1 1H  
P1 8.20 usec  
PL1 5.00 dB  
SFO1 500.1330885 MHz

# F2 - Processing parameters

SI 32768  
SF 500.1300260 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00





Current Data Parameters  
 NAME MN37  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20140205  
 Time 10.10  
 INSTRUM DRX  
 PROBHD 5 mm TBI 1H/13  
 PULPROG zgpg  
 TD 65536  
 SOLVENT CDCl3  
 NS 1355  
 DS 4  
 SWH 32679.738 Hz  
 FIDRES 0.498653 Hz  
 AQ 1.0027508 sec  
 RG 32768  
 DW 15.300 usec  
 DE 7.10 usec  
 TE 303.0 K  
 D1 1.00000000 sec  
 d11 0.03000000 sec  
 DELTA 0.89999998 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 13C  
 P1 5.00 usec  
 PL1 -3.00 dB  
 SFO1 125.7703643 MHz

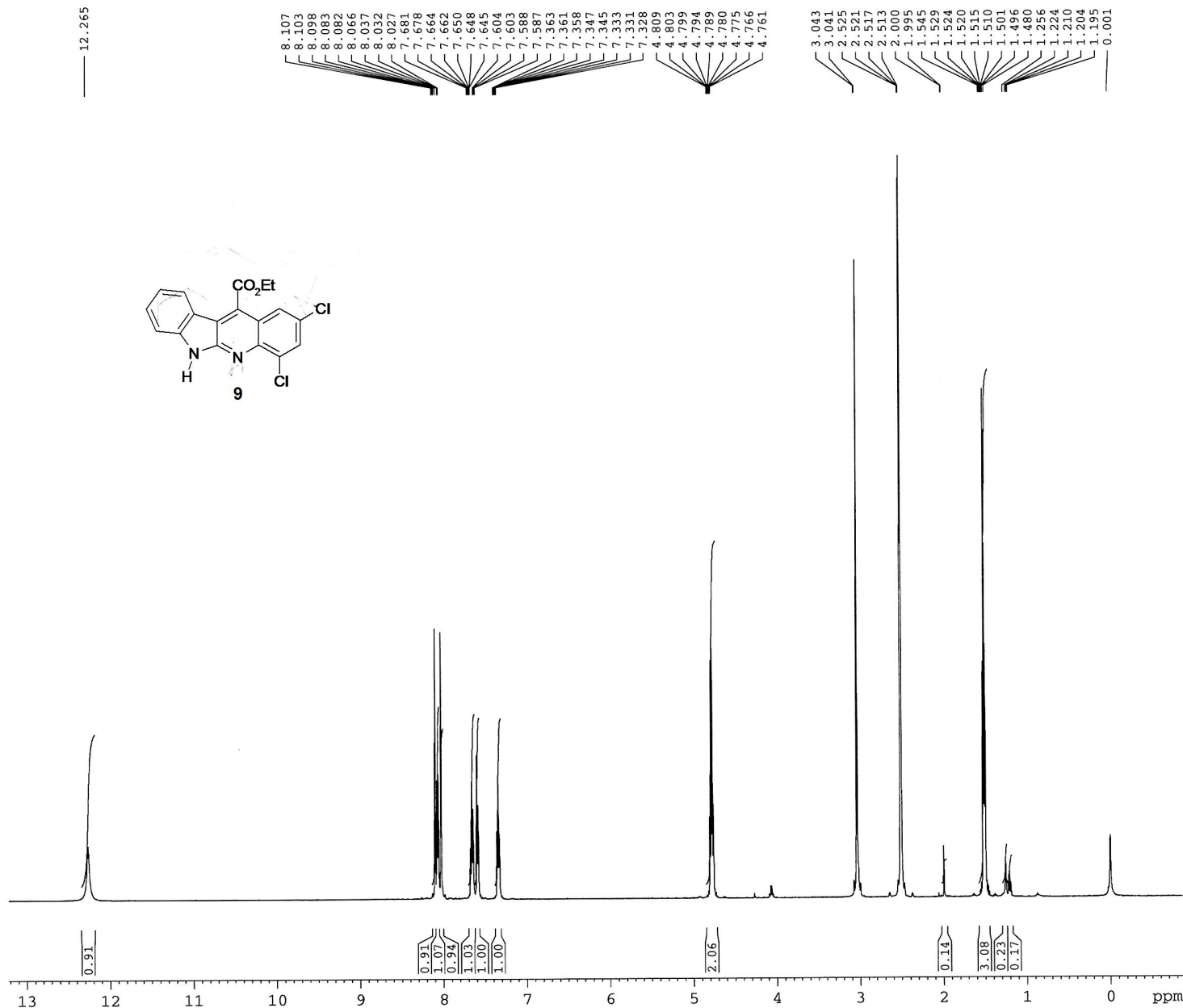
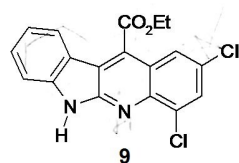
===== CHANNEL f2 =====  
 CPDPRG2 waltz16  
 NUC2 1H  
 PCPD2 98.00 usec  
 PL2 3.00 dB  
 PL12 23.00 dB  
 PL13 32.00 dB  
 SFO2 500.1320005 MHz

F1 - Acquisition parameters  
 ND0 1  
 TD 128  
 SFO1 500.132 MHz  
 FIDRES 7.812500 Hz  
 SW 1.999 ppm  
 FnmODE QF

F2 - Processing parameters  
 SI 262144  
 SF 125.7577941 MHz  
 WDW EM  
 SSB 0  
 LB 0.50 Hz  
 GB 0  
 PC 1.40

F1 - Processing parameters  
 SI 1024  
 MC2 QF  
 SF 500.1300000 MHz  
 WDW SINE  
 SSB 0  
 LB 0.30 Hz  
 GB 0.1

12.265

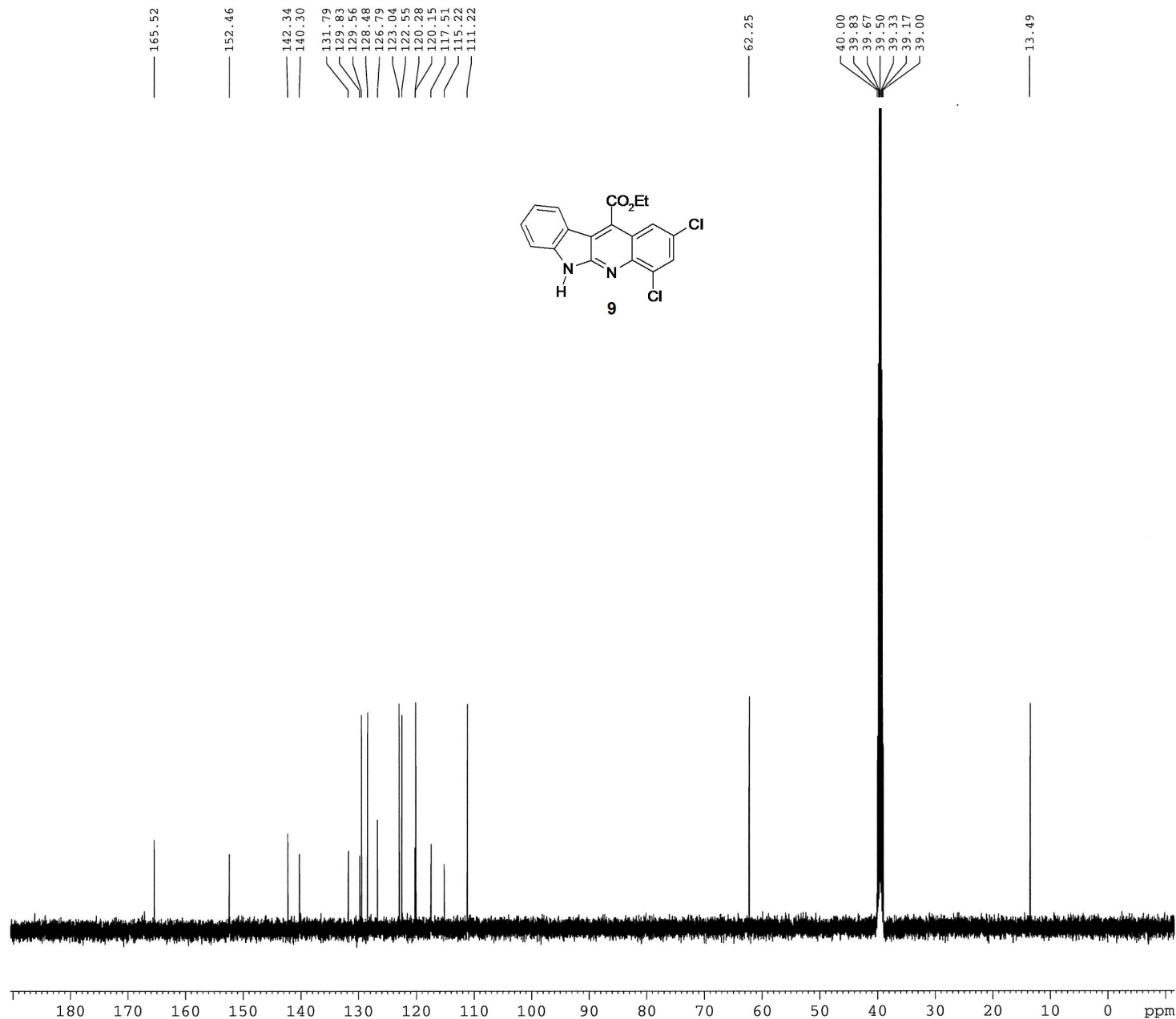


Current Data Parameters  
NAME MN252-2  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150430  
Time 10.04  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zg30  
TD 65536  
SOLVENT DMSO  
NS 64  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 228.1  
DW 48.400 usec  
DE 6.78 usec  
TE 353.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 8.20 usec  
PL1 5.00 dB  
SFO1 500.1330885 MHz

F2 - Processing parameters  
SI 32768  
SF 500.1299982 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00



Current Data Parameters  
NAME MN252-2  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150430  
Time 10.41  
INSTRUM DRX  
PROBHD 5 mm TBI 1H/13  
PULPROG zgpg  
TD 65536  
SOLVENT DMSO  
NS 3000  
DS 4  
SWH 32679.738 Hz  
FIDRES 0.498653 Hz  
AQ 1.0027508 sec  
RG 32768  
DW 15.300 usec  
DE 7.10 usec  
TE 353.0 K  
D1 1.00000000 sec  
d11 0.03000000 sec  
DELTA 0.89999998 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 <sup>13</sup>C  
P1 5.00 usec  
PL1 -3.00 dB  
SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 <sup>1</sup>H  
PCPD2 98.00 usec  
PL2 3.00 dB  
PL12 23.00 dB  
PL13 32.00 dB  
SFO2 500.1320005 MHz

F1 - Acquisition parameters  
ND0 1  
TD 128  
SFO1 500.132 MHz  
FIDRES 7.812500 Hz  
SW 1.999 ppm  
FnMODE QF

F2 - Processing parameters  
SI 262144  
SF 125.7579078 MHz  
WDW EM  
SSB 0  
LB 0.50 Hz  
GB 0  
PC 1.40

F1 - Processing parameters  
SI 1024  
MC2 QF  
SF 500.1300000 MHz  
WDW SINE  
SSB 0  
LB 0.30 Hz  
GB 0.1