

Supplementary Information
For
Substrate Oriented Selectivity in the Mg-Mediated Conjugate Addition of Bromoform to
Electron Deficient Alkenes

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Current Data Parameters
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EXPNO 1
PROCNO 1

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PULPROG zg30
TD 54274
SOLVENT CDCl3
NS 5
DS 0
SWH 8223.685 Hz
FIDRES 0.151522 Hz
AQ 3.2998593 sec
RG 161
DW 60.800 usec
DE 6.50 usec
TE 294.2 K
D1 1.00000000 sec
TD0 1

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PL1W 10.56200695 W
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SSB 0
LB 0.30 Hz
GB 0
PC 1.00

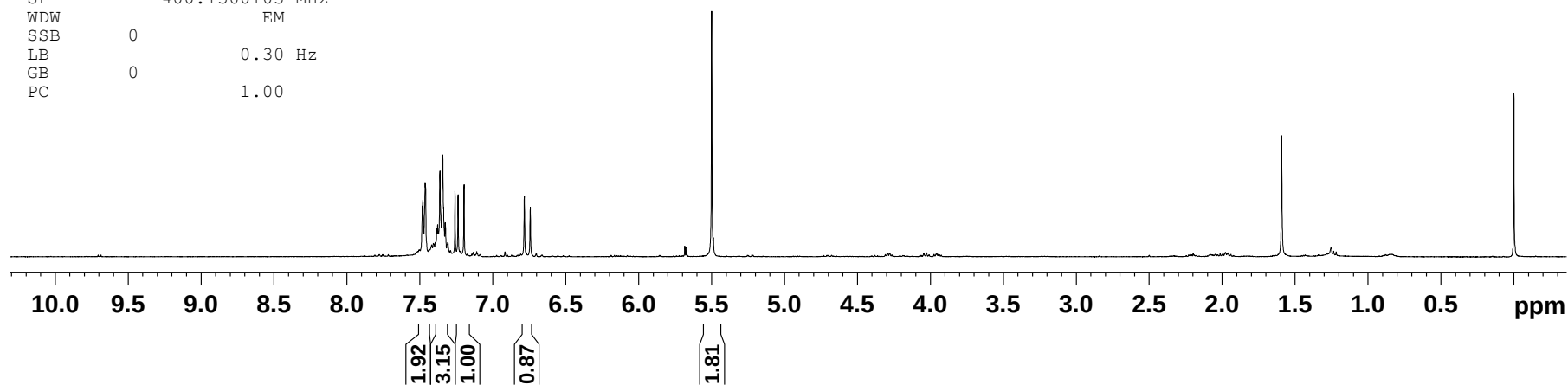
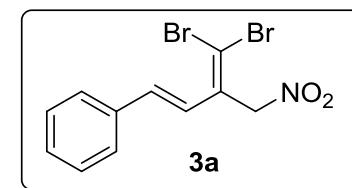


Figure S01. ¹H NMR Spectrum of 3a

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 PROCNO 1

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 SOLVENT CDCl3
 NS 54
 DS 0
 SWH 26041.666 Hz
 FIDRES 0.397364 Hz
 AQ 1.2582912 sec
 RG 1030
 DW 19.200 usec
 DE 6.50 usec
 TE 294.8 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
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 PL1W 56.53121948 W
 SFO1 100.6238364 MHz

===== CHANNEL f2 =====
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 PCPD2 80.00 usec
 PL2 -1.00 dB
 PL12 13.69 dB
 PL13 14.50 dB
 PL2W 10.56200695 W
 PL12W 0.35871249 W
 PL13W 0.29767781 W
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 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

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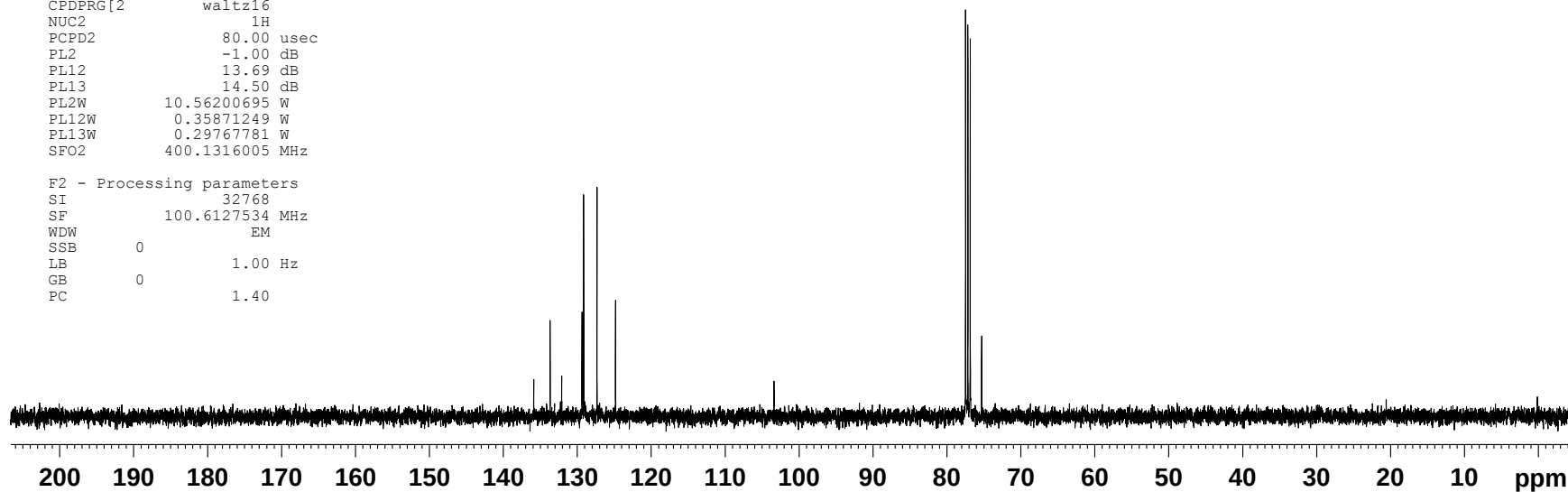
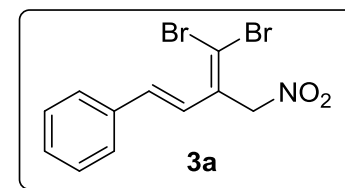
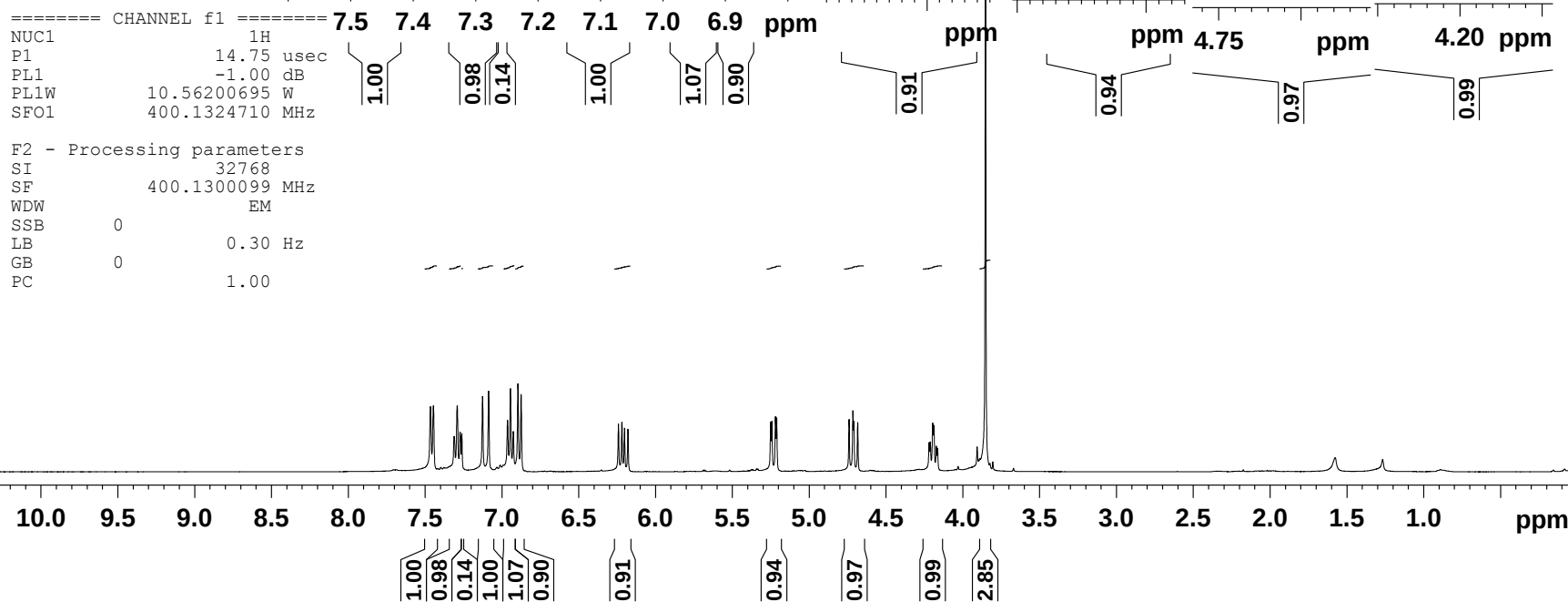
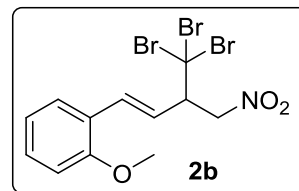


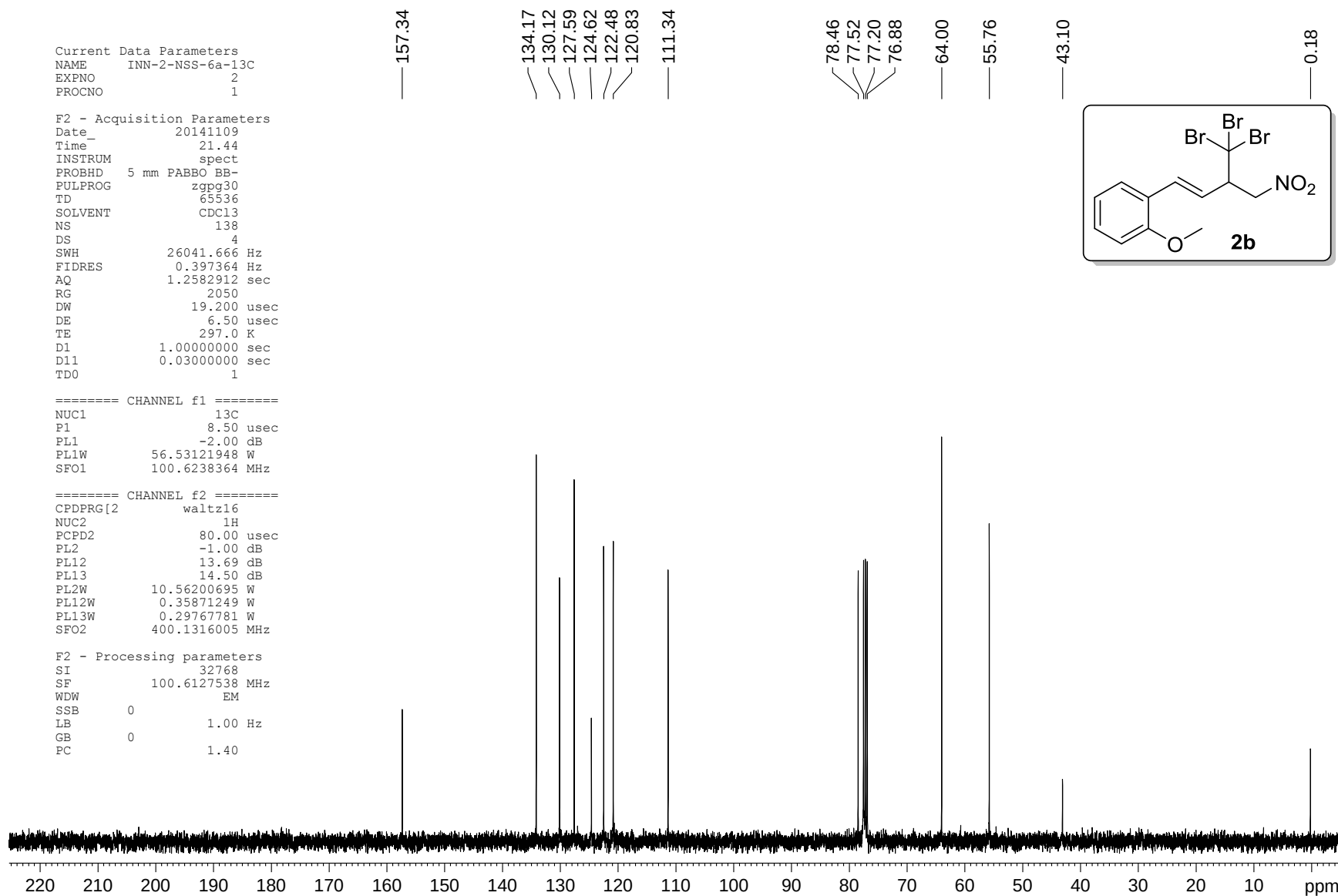
Figure S02. ¹³C NMR Spectrum of 3a

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EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

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PULPROG zg30
TD 54274
SOLVENT CDC13
NS 11
DS 0
SWH 8223.685 Hz
FIDRES 0.151522 Hz
AQ 3.2998593 sec
RG 80.6
DW 60.800 usec
DE 6.50 usec
TE 296.1 K
D1 1.00000000 sec
TD0 1

Figure S03. ¹H NMR Spectrum of 2b



Current Data Parameters
NAME INN-NSS-DIENE-NO2-BRO-1H
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190718
Time_ 17.05
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2767999 sec
RG 30.72
DW 50.000 usec
DE 6.50 usec
TE 297.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
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NUC1 1H
P1 13.35 usec
PLW1 16.00000000 W

F2 - Processing parameters
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SF 500.1300136 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

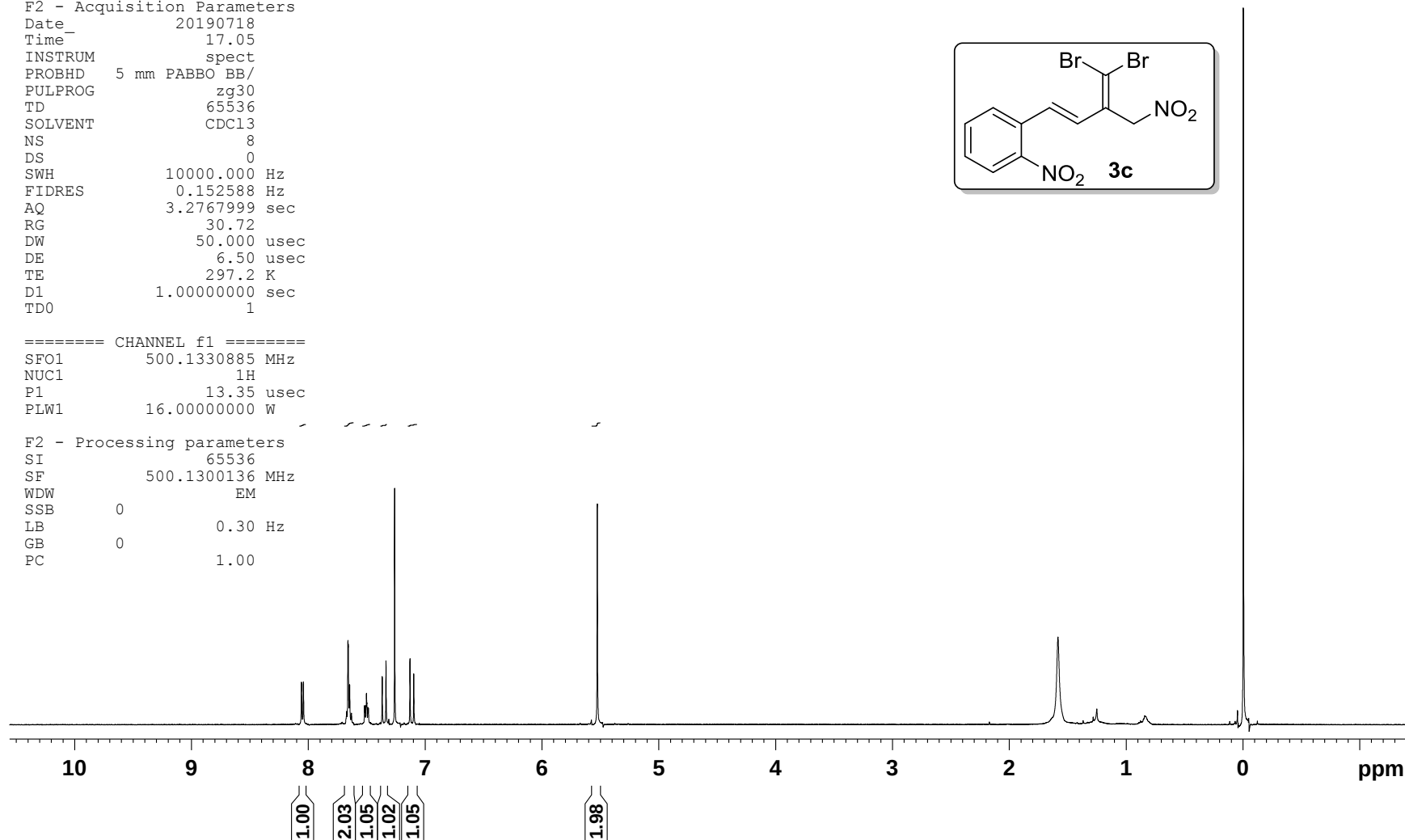
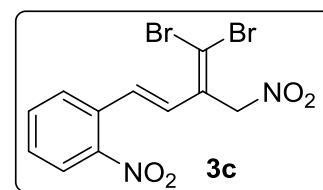
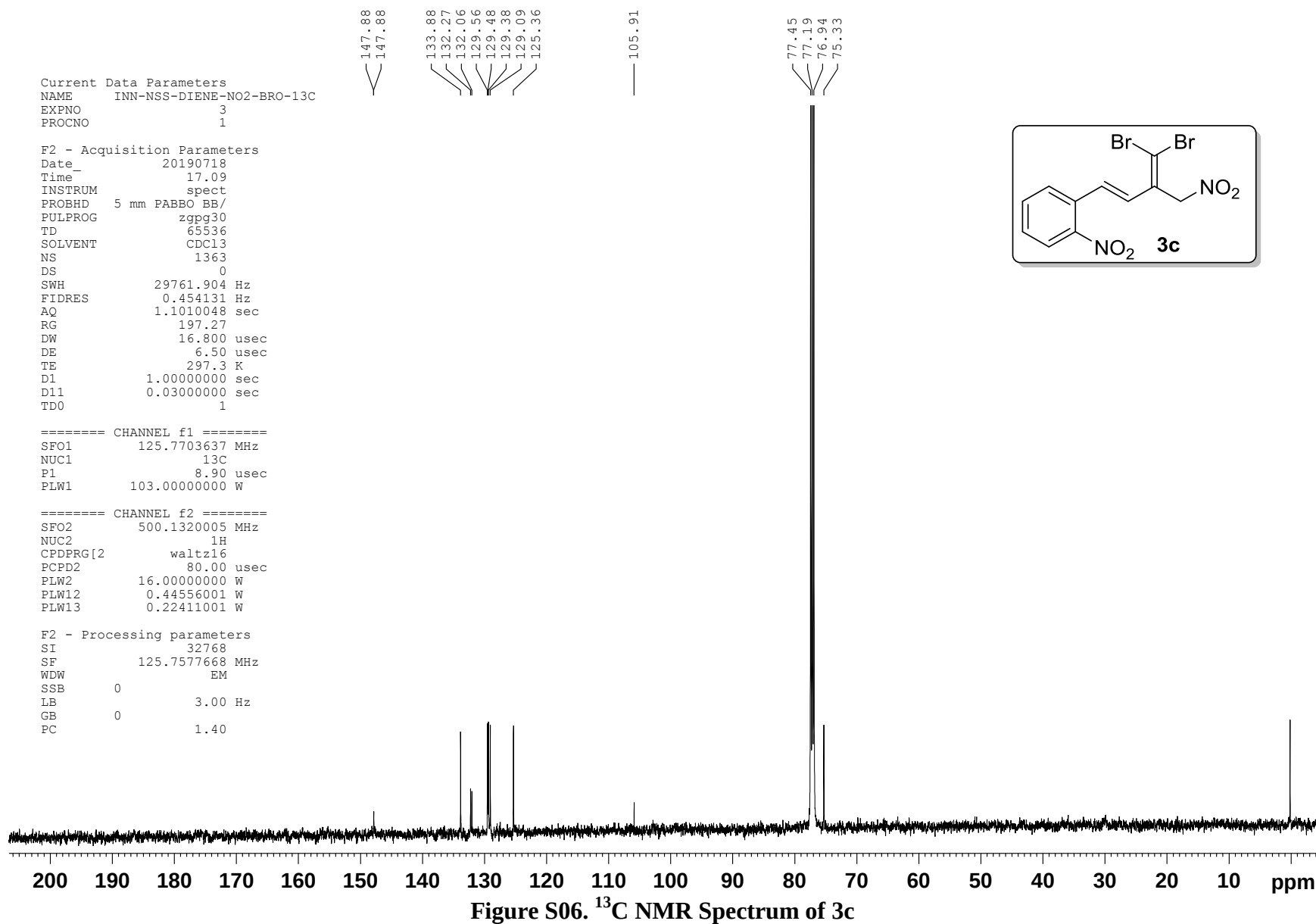


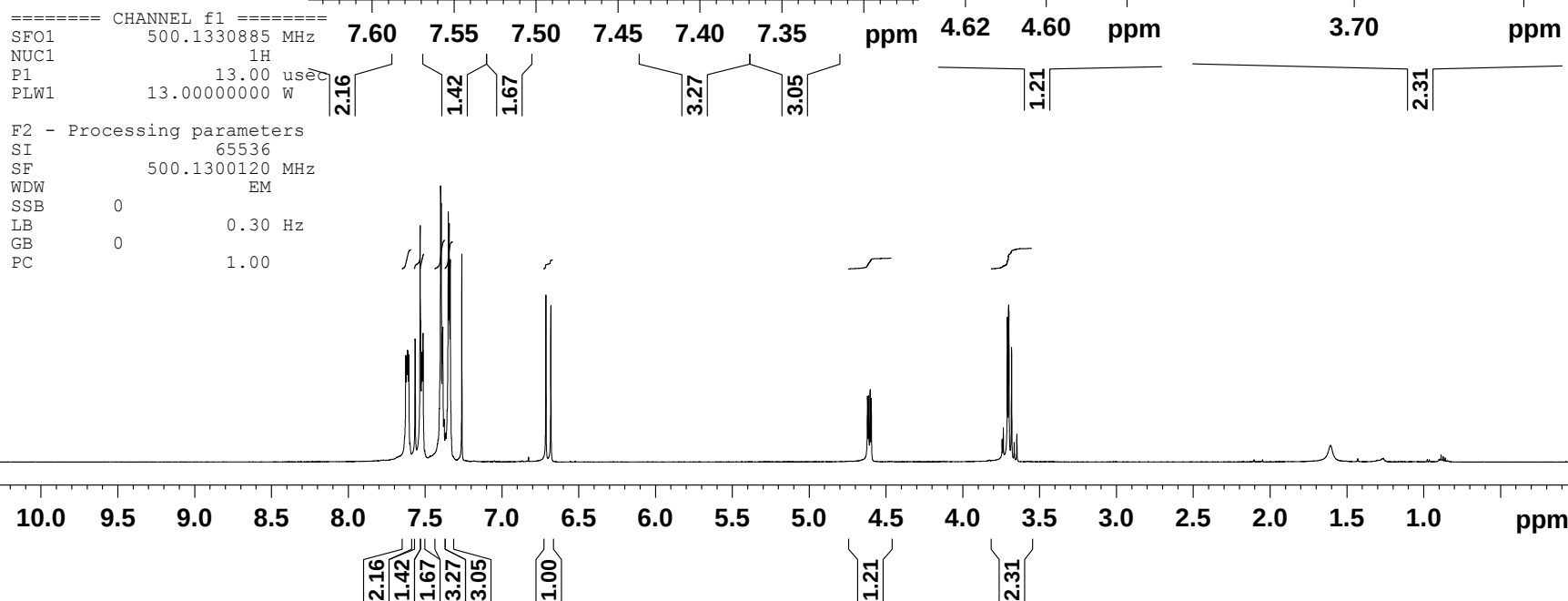
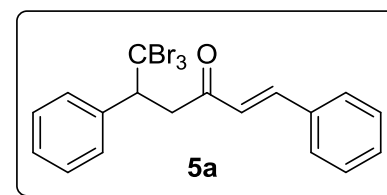
Figure S05. ¹H NMR Spectrum of 3c

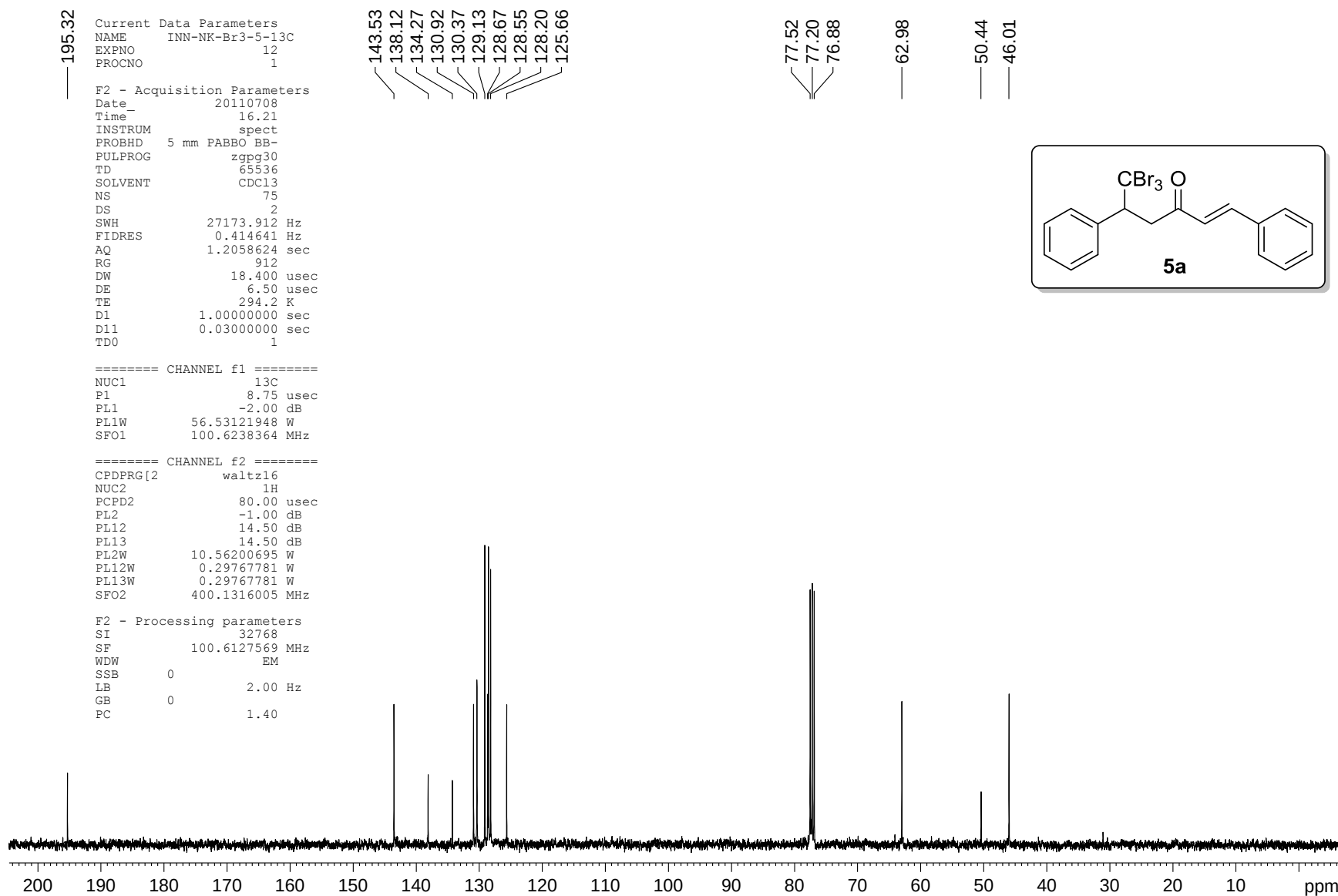


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 PROCNO 1

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 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 6
 DS 2
 SWH 10000.000 Hz
 FIDRES 0.152588 Hz
 AQ 3.2767999 sec
 RG 30.72
 DW 50.000 usec
 DE 6.50 usec
 TE 295.4 K
 D1 1.00000000 sec
 TD0 1

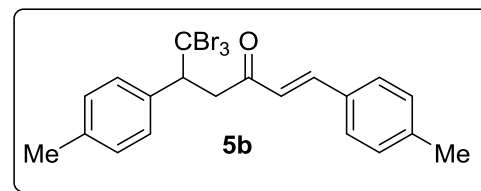
Figure S07. ¹H NMR Spectrum of 5a

Figure S08. ¹³C NMR Spectrum of 5a

Current Data Parameters
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 PROCNO 1

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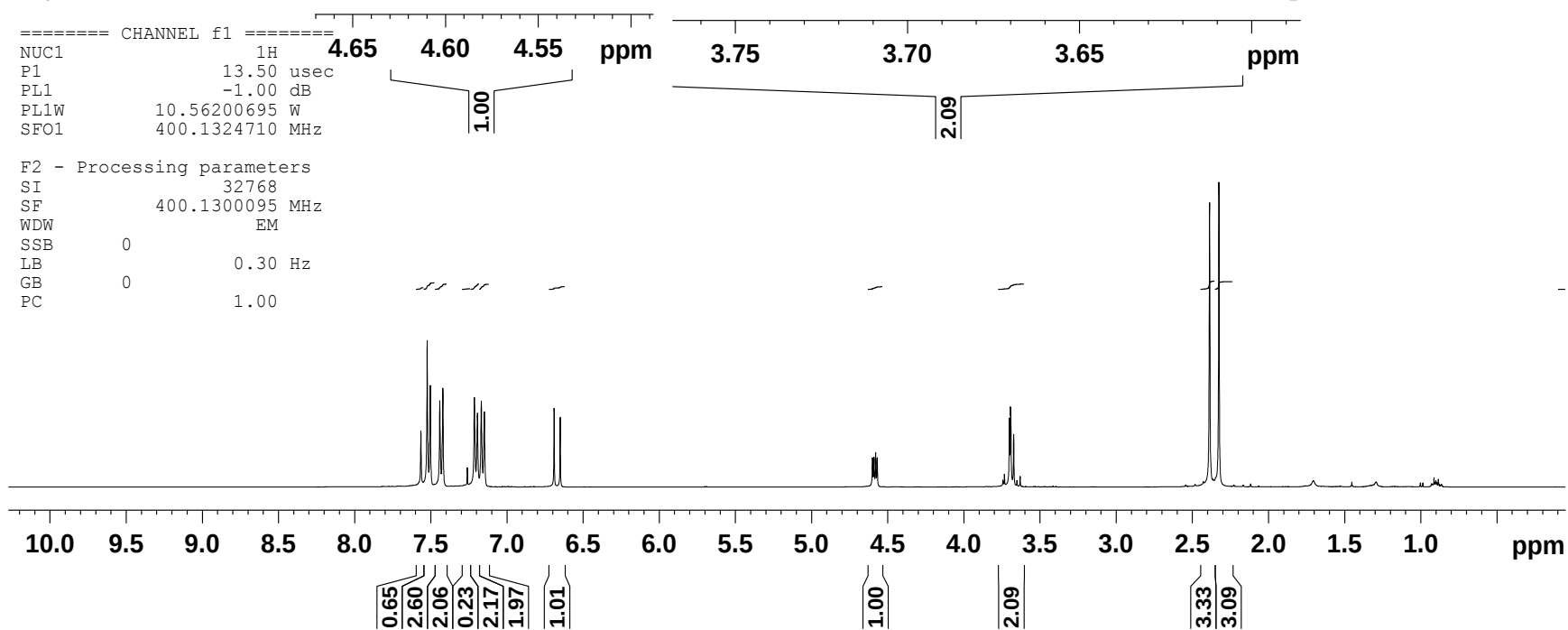
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 SOLVENT CDCl3
 NS 56
 DS 0
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9845889 sec
 RG 32
 DW 60.800 usec
 DE 6.50 usec
 TE 295.7 K
 D1 1.00000000 sec
 TD0 1

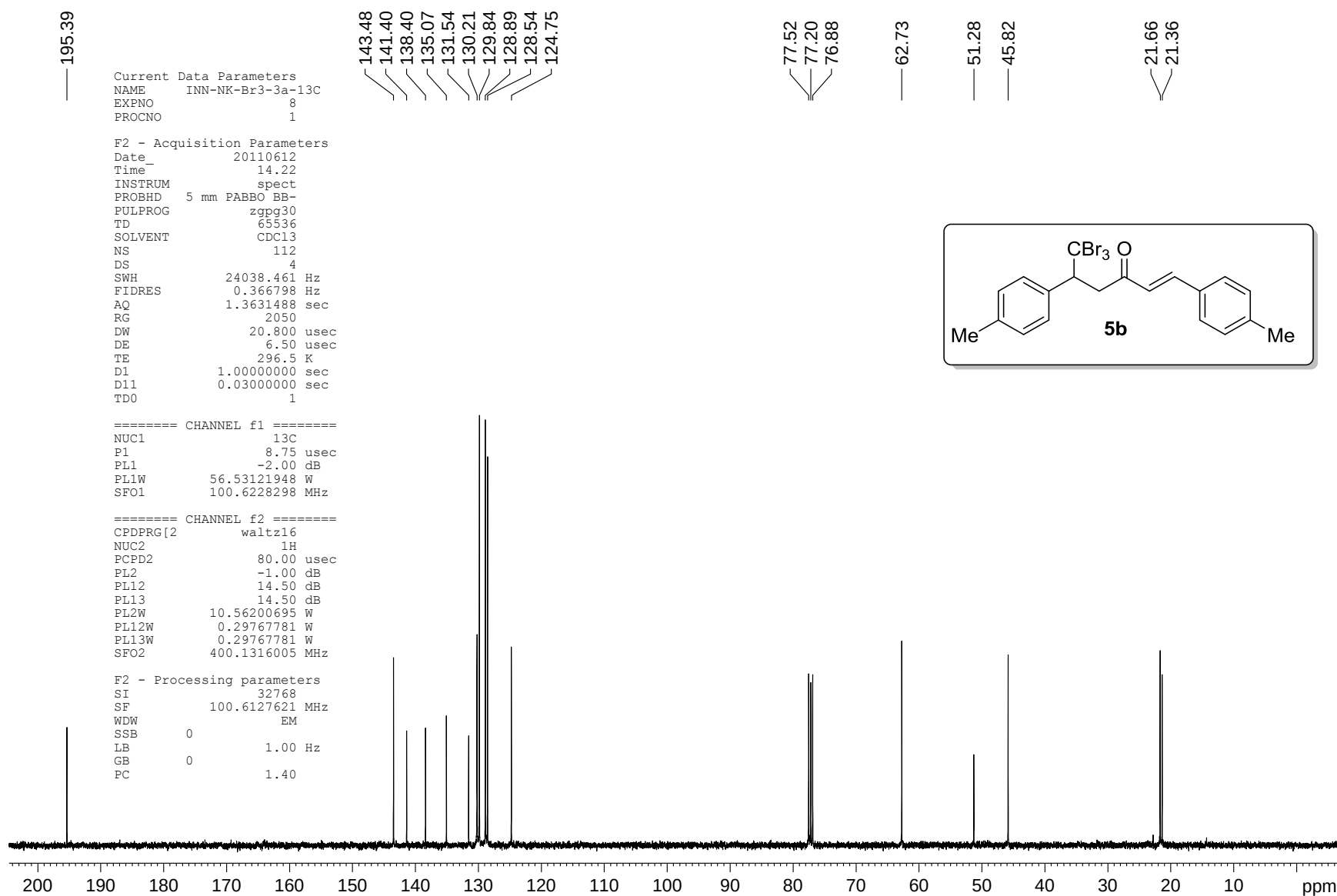


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F2 - Processing parameters

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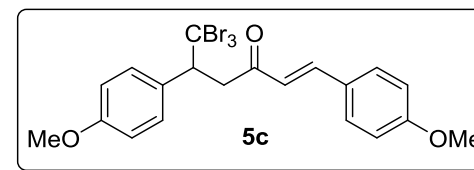
Figure S09. ¹H NMR Spectrum of 5b

Figure S10. ¹³C NMR Spectrum of 5b

Current Data Parameters
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PROCNO 1

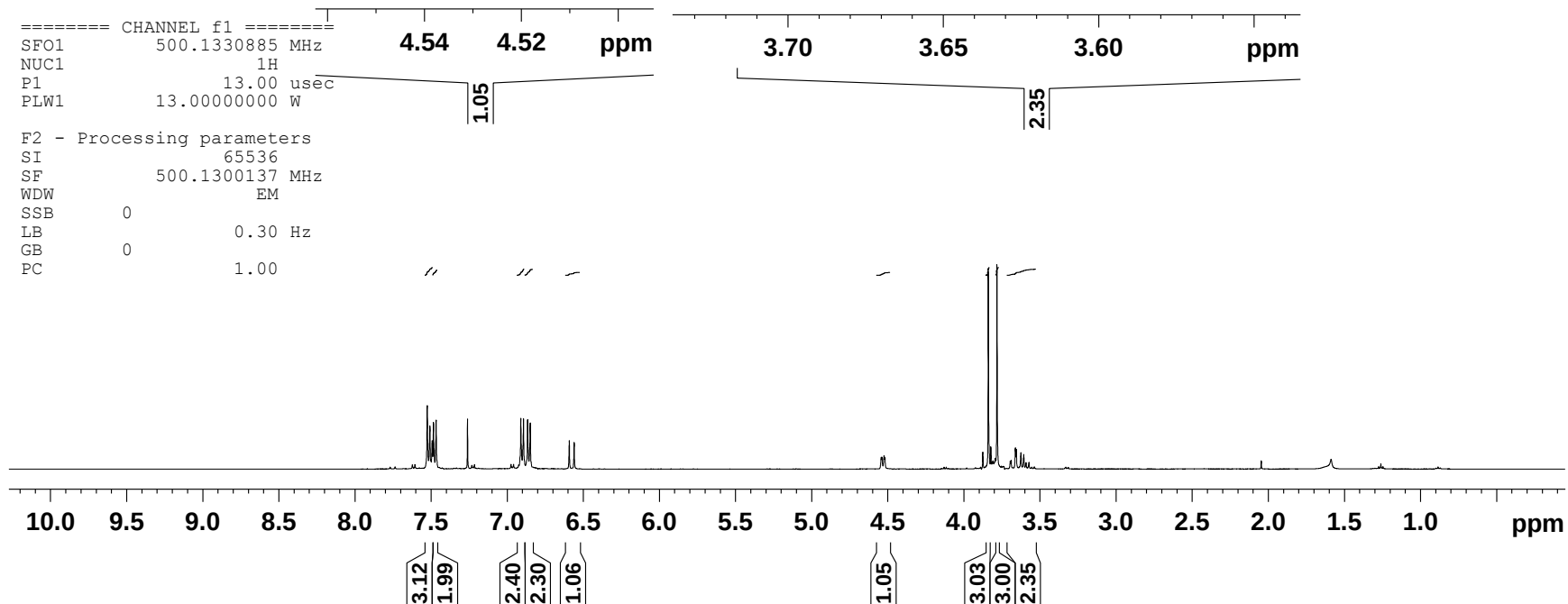
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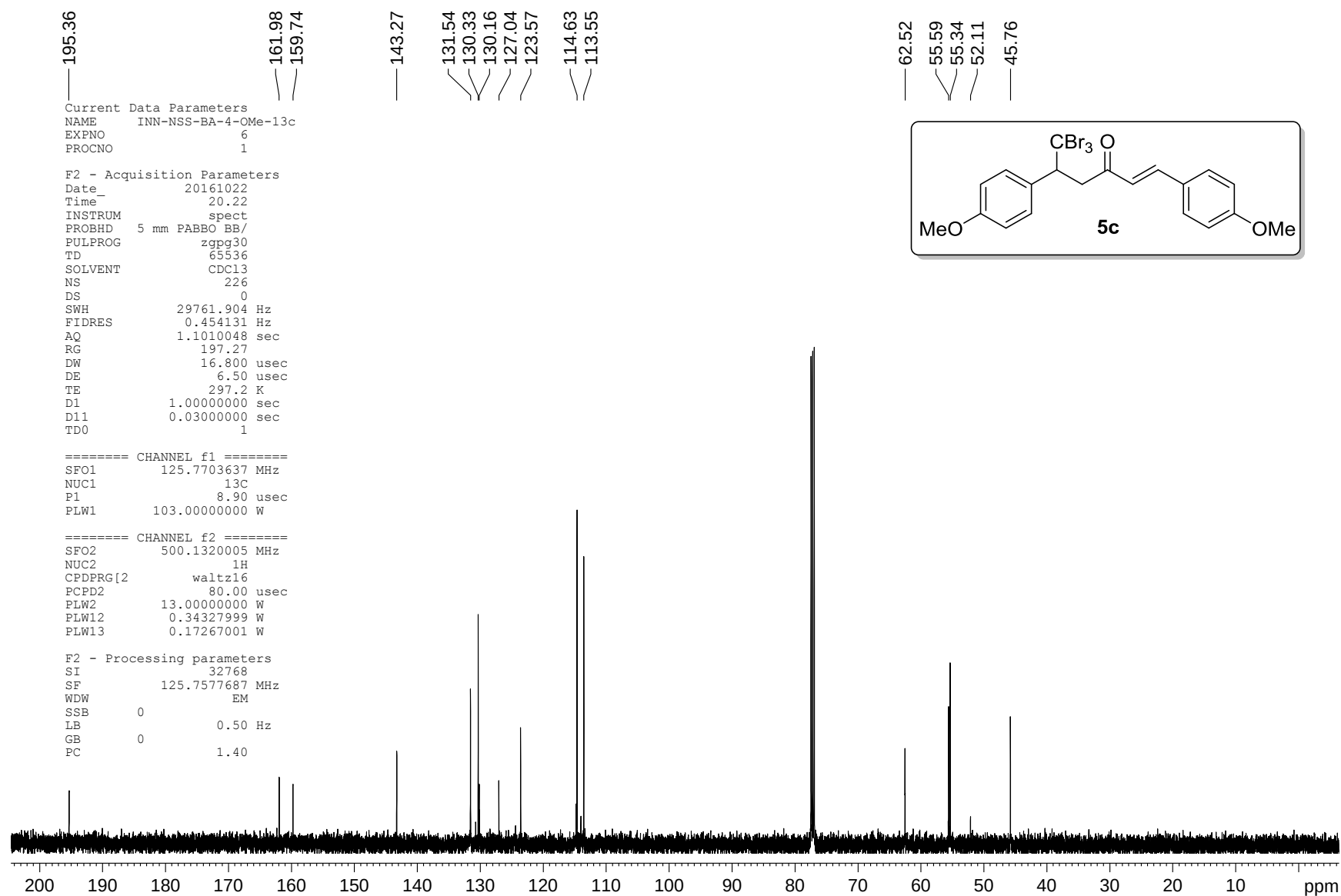
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PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
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RG 85.91
DW 50.000 usec
DE 6.50 usec
TE 297.1 K
D1 1.00000000 sec
TD0 1

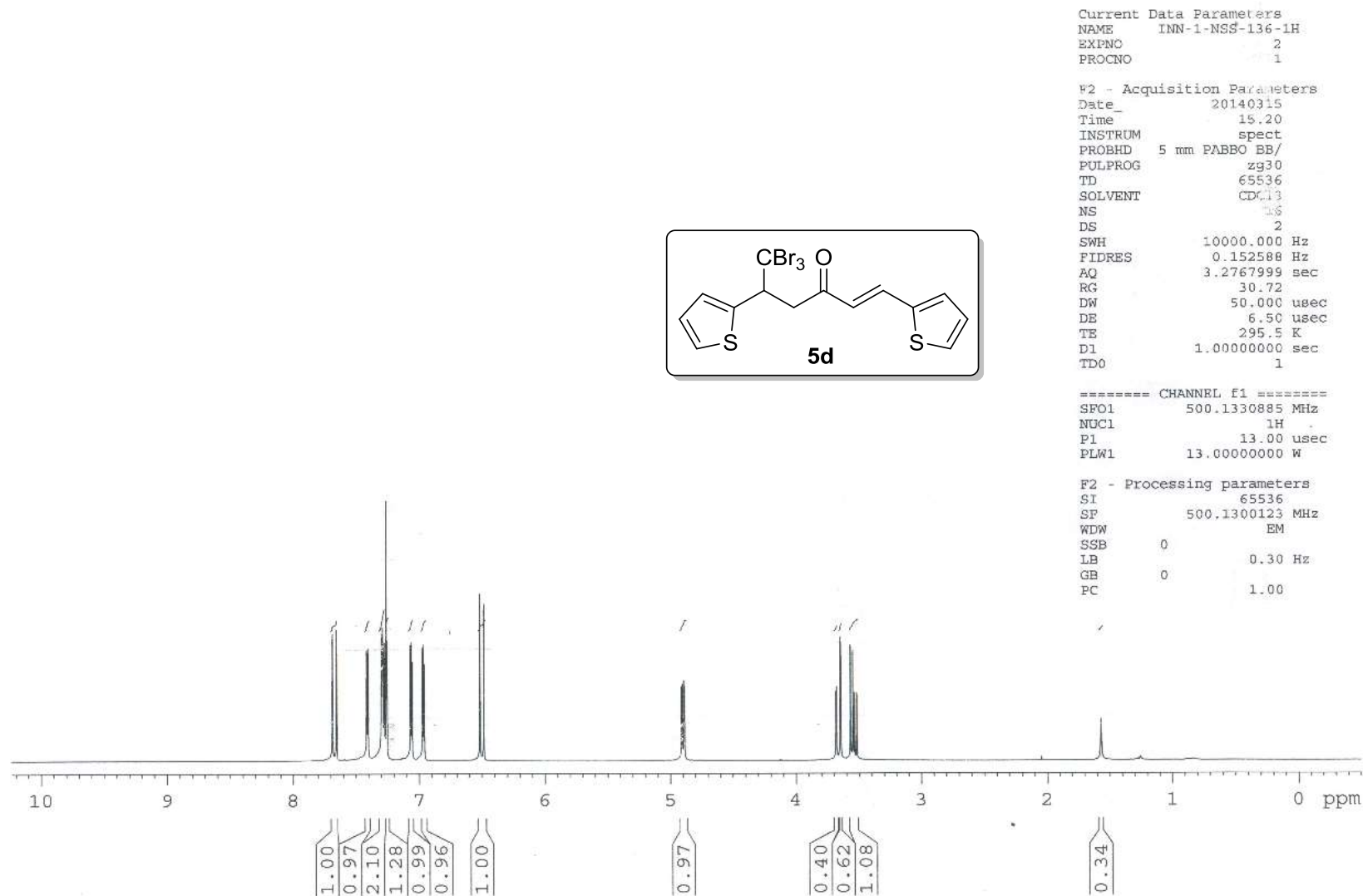


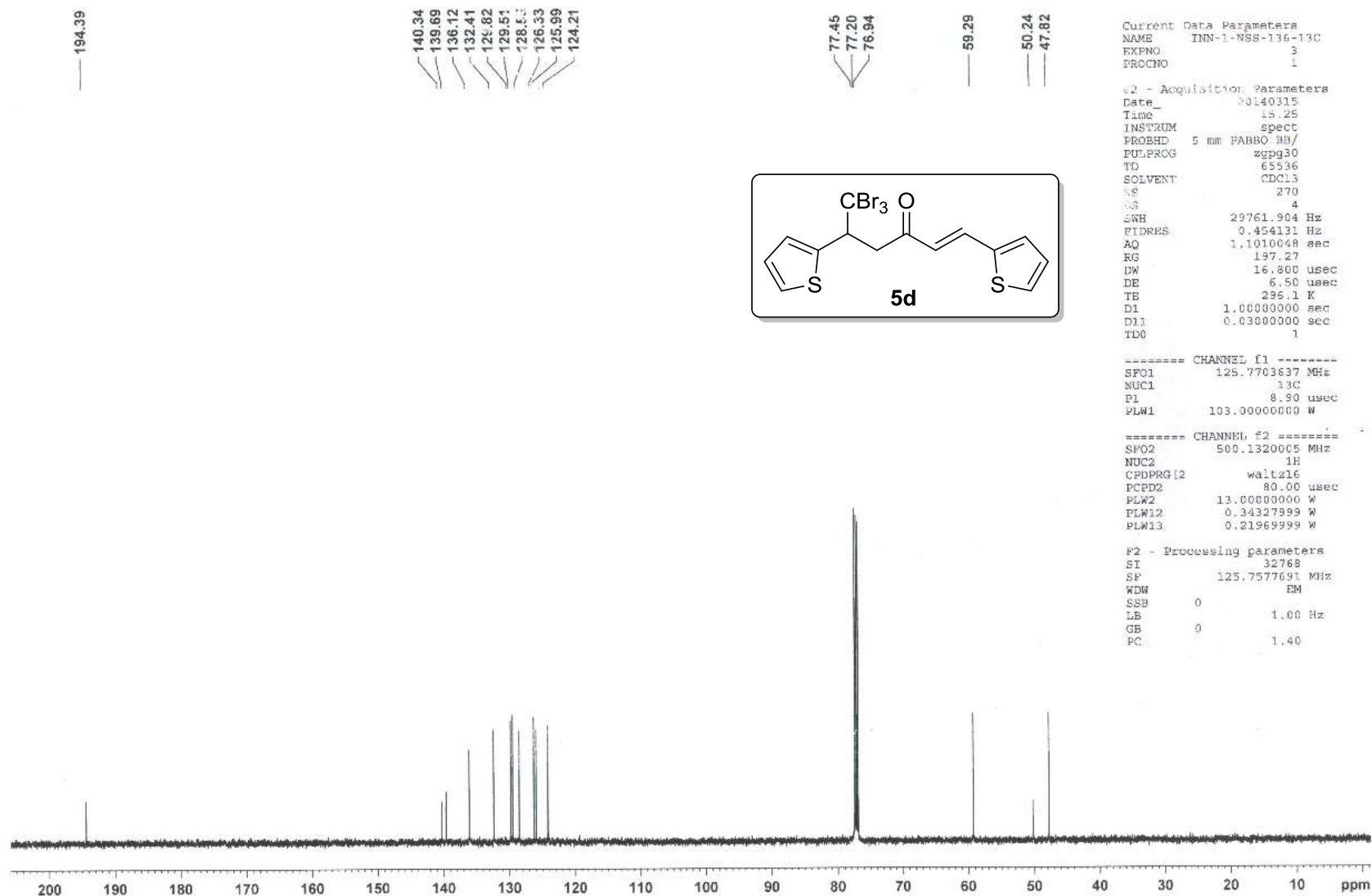
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NUC1 1H
P1 13.00 usec
PLW1 13.00000000 W

F2 - Processing parameters
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WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S11. ¹H NMR Spectrum of 5c



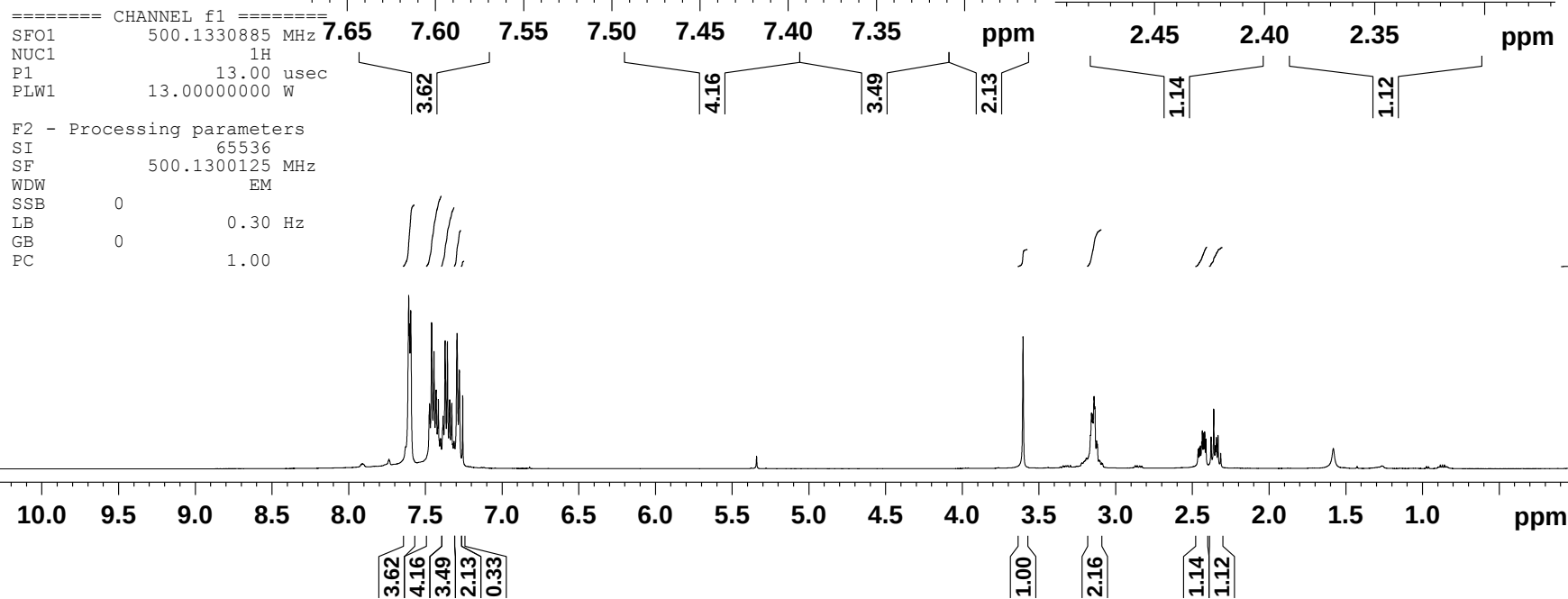
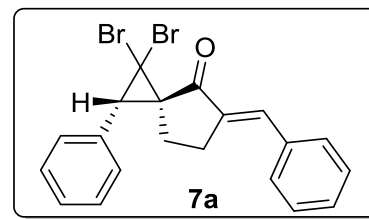
Figure S13. ¹H NMR Spectrum of 5d

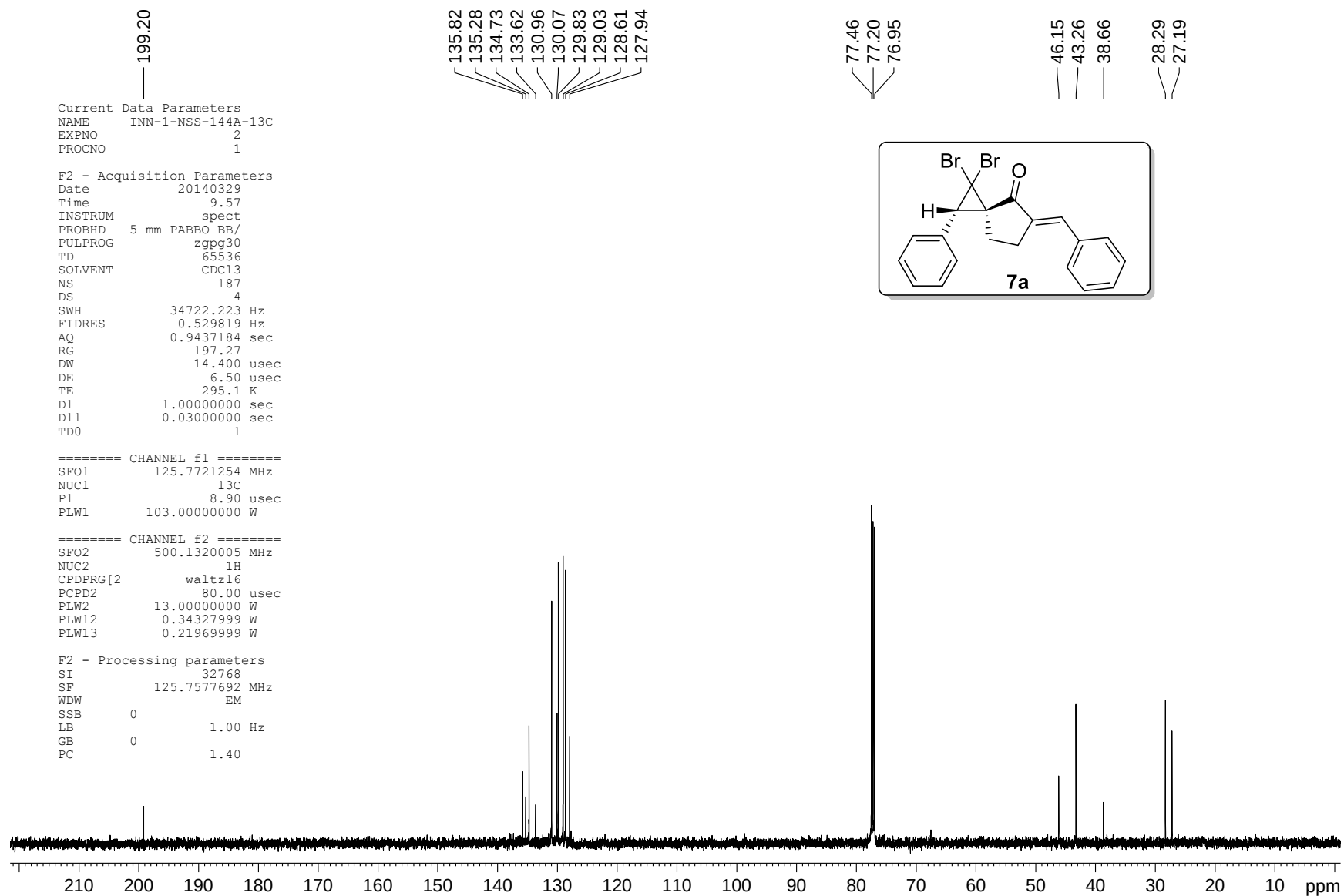
Figure S14. ¹³C NMR Spectrum of **5d**

Current Data Parameters
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EXPNO 1
PROCNO 1

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PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 21
DS 2
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2767999 sec
RG 106.54
DW 50.000 usec
DE 6.50 usec
TE 294.6 K
D1 1.00000000 sec
TD0 1

Figure S15. ¹H NMR Spectrum of 7a

Figure S16. ¹³C NMR Spectrum of 7a

Current Data Parameters
 NAME inn-nss-cp-4-me-1h
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
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 Time_ 10.02
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 PULPROG zg30
 TD 54274
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 8223.685 Hz
 FIDRES 0.151522 Hz
 AQ 3.2998593 sec
 RG 101
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 TE 294.9 K
 D1 1.00000000 sec
 TD0 1

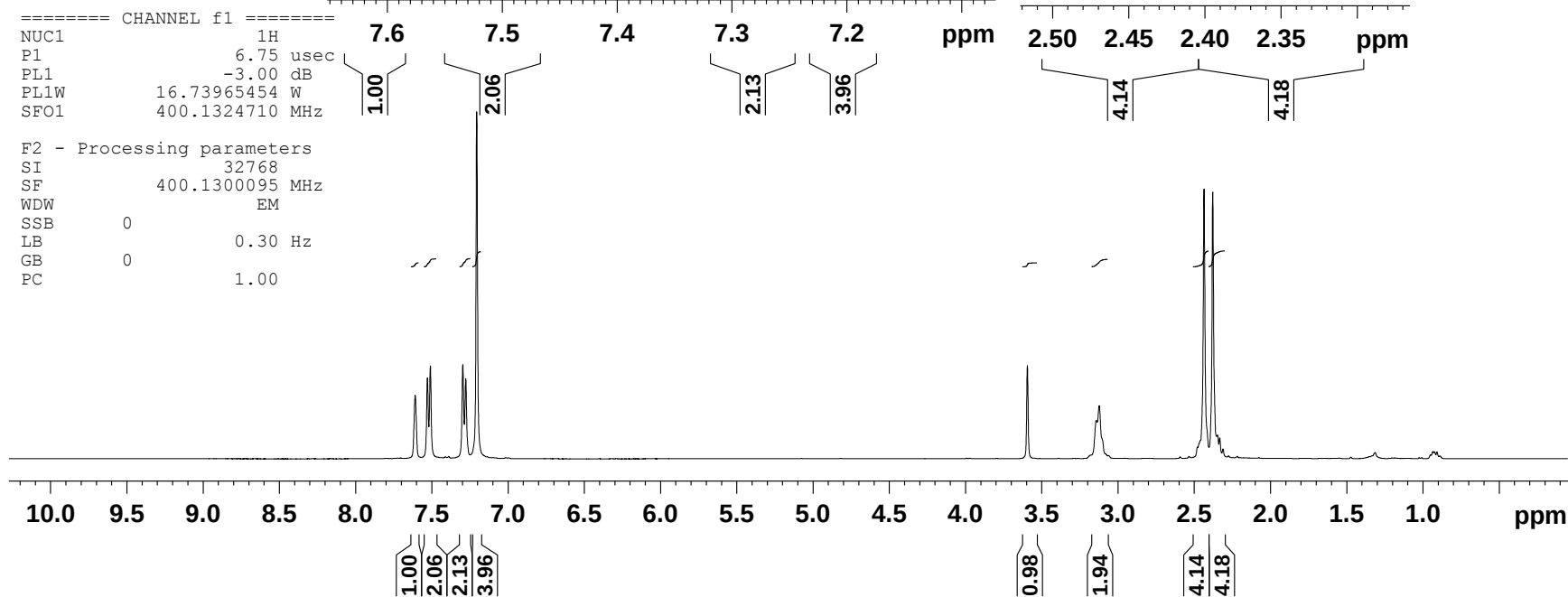
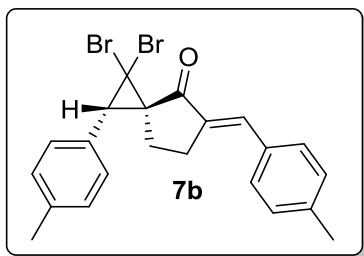


Figure S17. ^1H NMR Spectrum of 7b

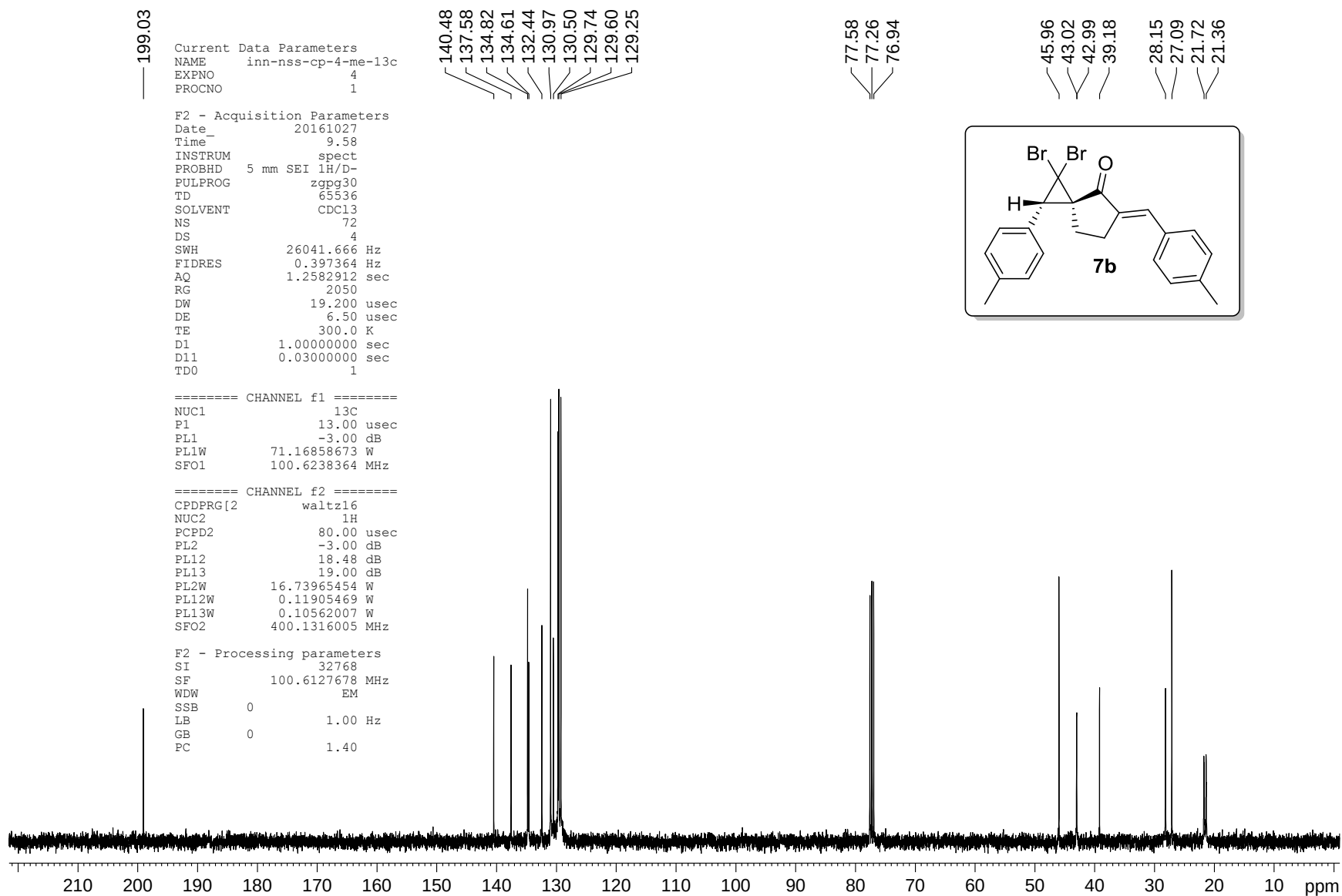
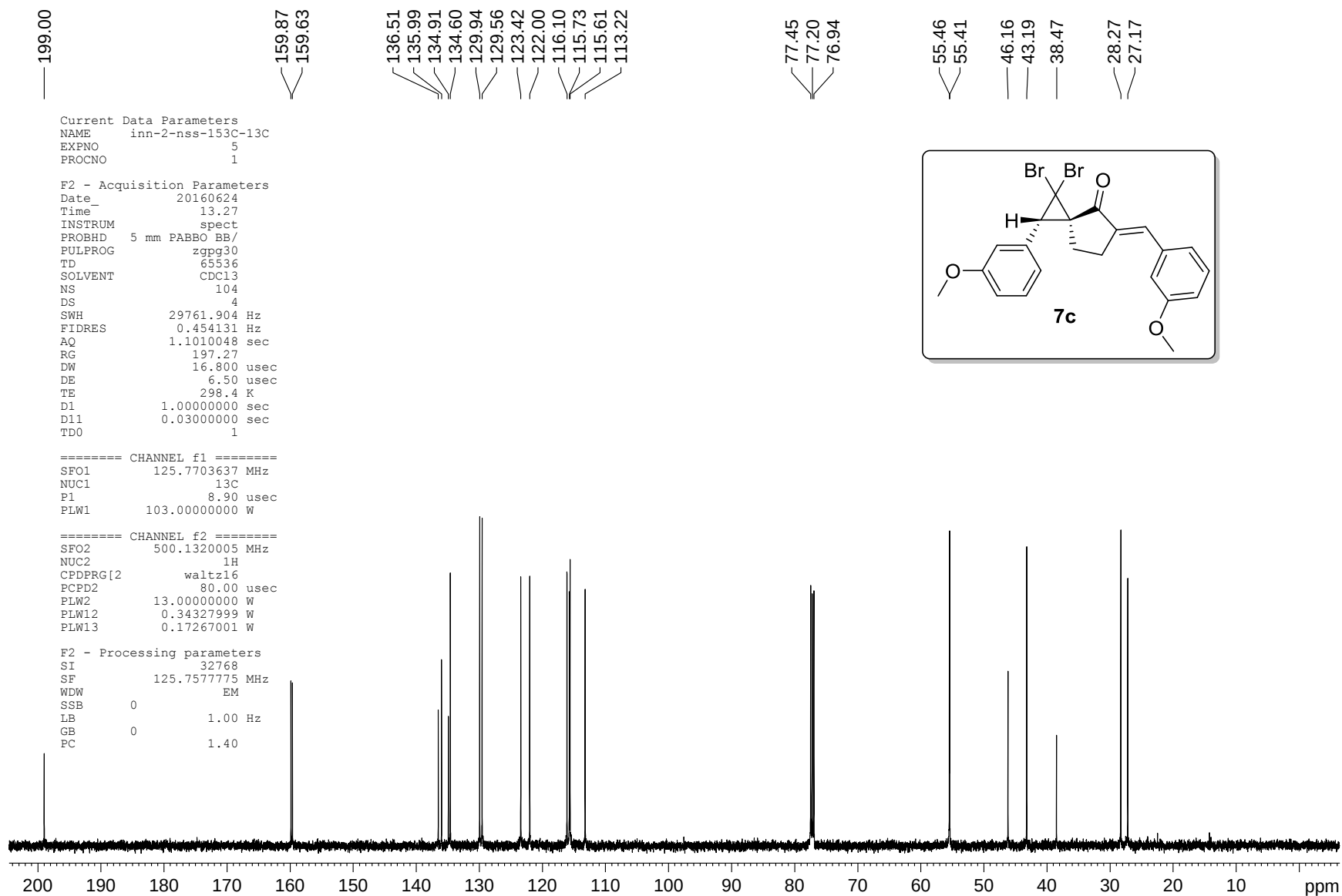
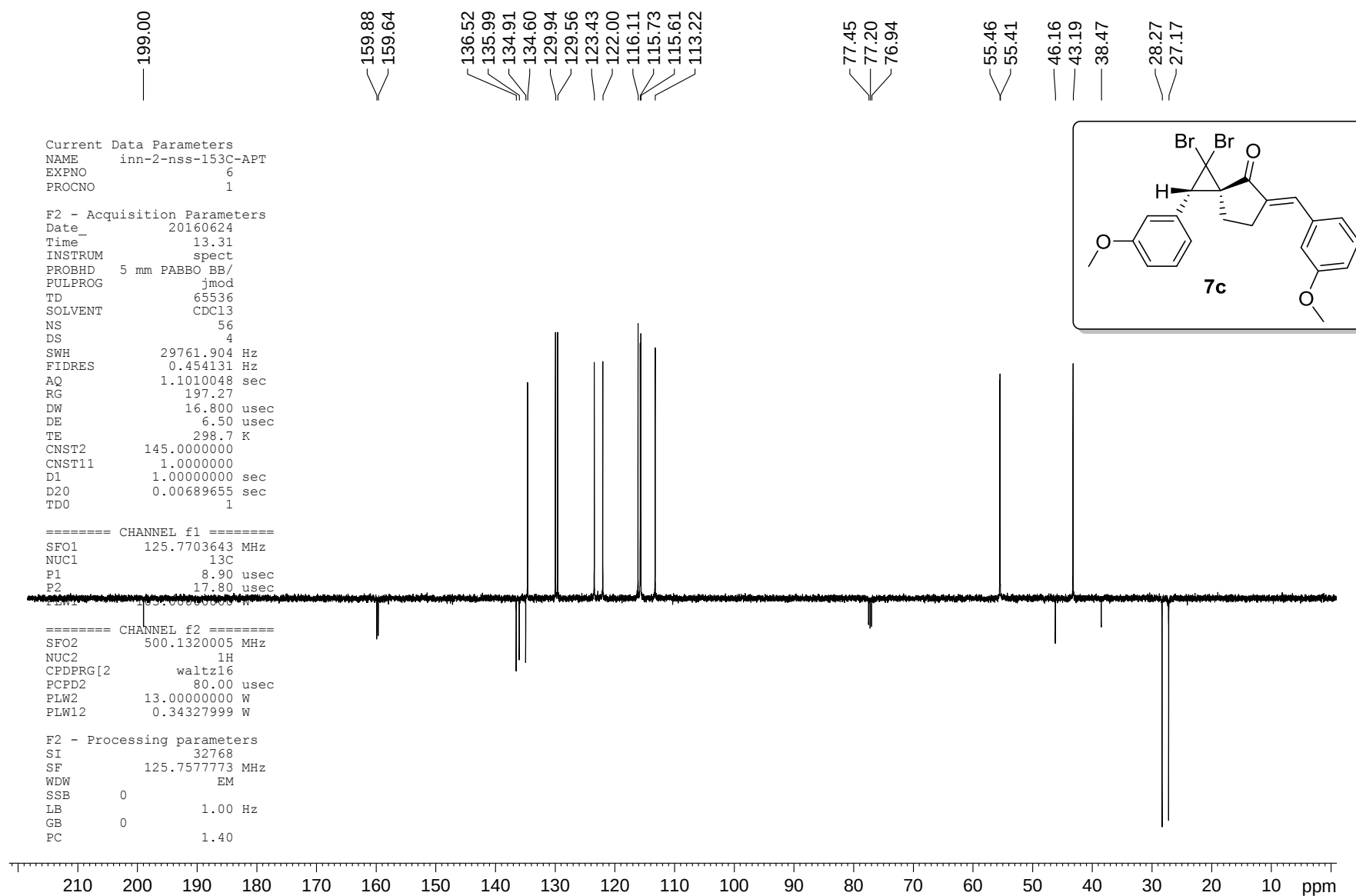


Figure S19. ^1H NMR Spectrum of 7c

Figure S20. ¹³C NMR Spectrum of **7c**

Figure S21. ¹³C-APT NMR Spectrum of **7c**

Current Data Parameters
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 PROCNO 1

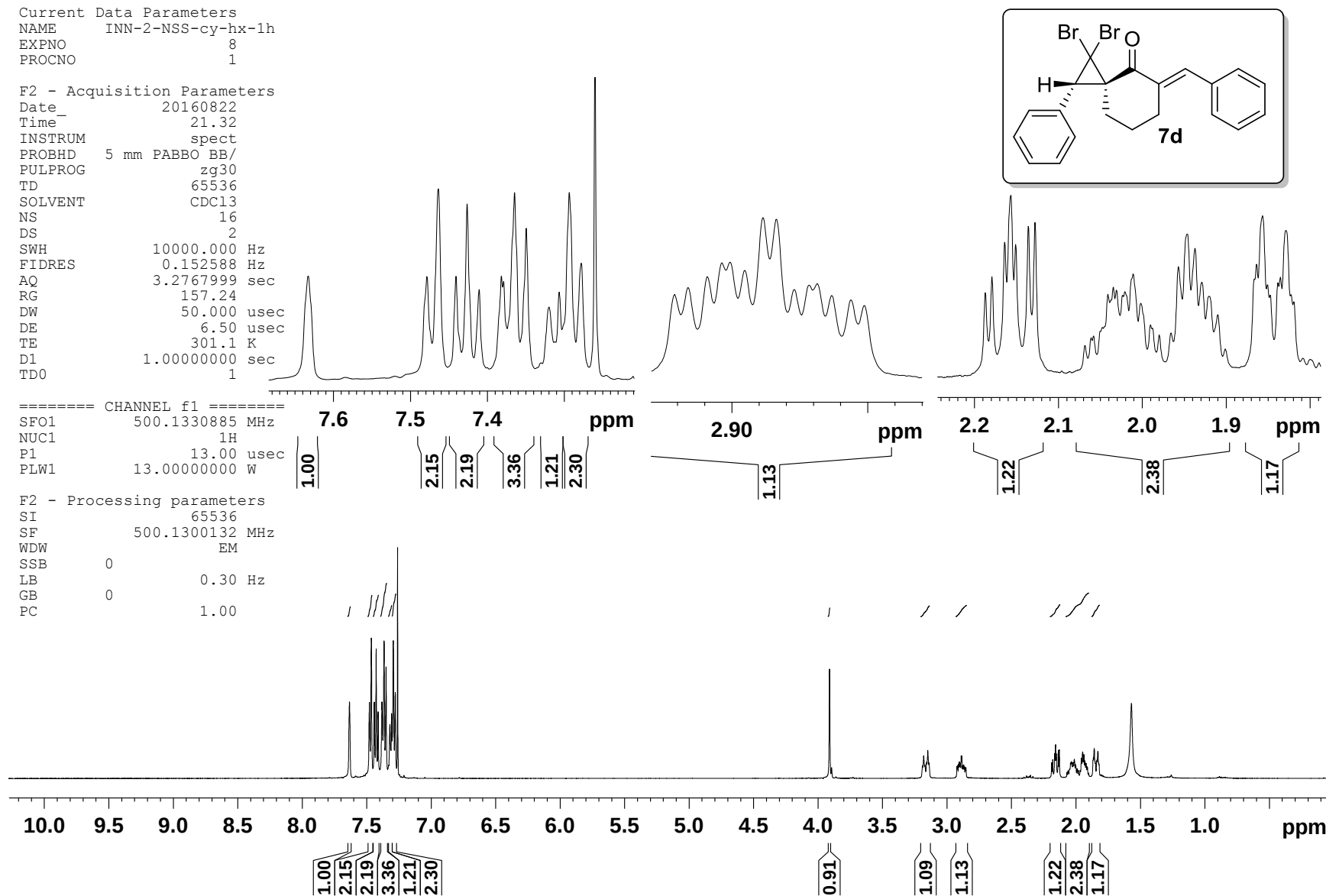
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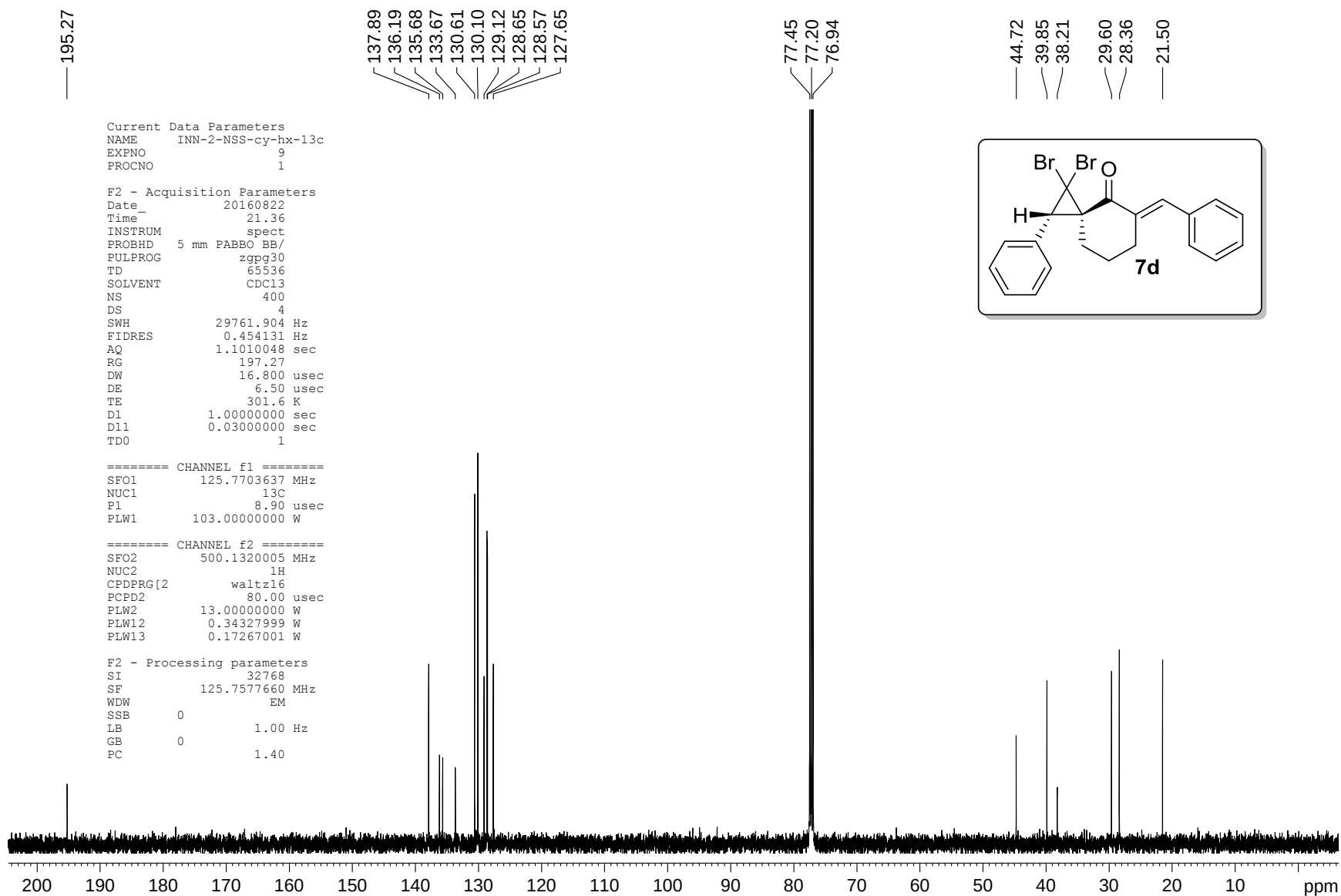
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 PULPROG zg30
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 SOLVENT CDC13
 NS 16
 DS 2
 SWH 10000.000 Hz
 FIDRES 0.152588 Hz
 AQ 3.2767999 sec
 RG 157.24
 DW 50.000 usec
 DE 6.50 usec
 TE 301.1 K
 D1 1.00000000 sec
 TD0 1

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 NUC1 1H
 P1 13.00 usec
 PLW1 13.00000000 W

F2 - Processing parameters

SI 65536
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 WDW EM
 SSB 0
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 GB 0
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Figure S22. ¹H NMR Spectrum of 7d



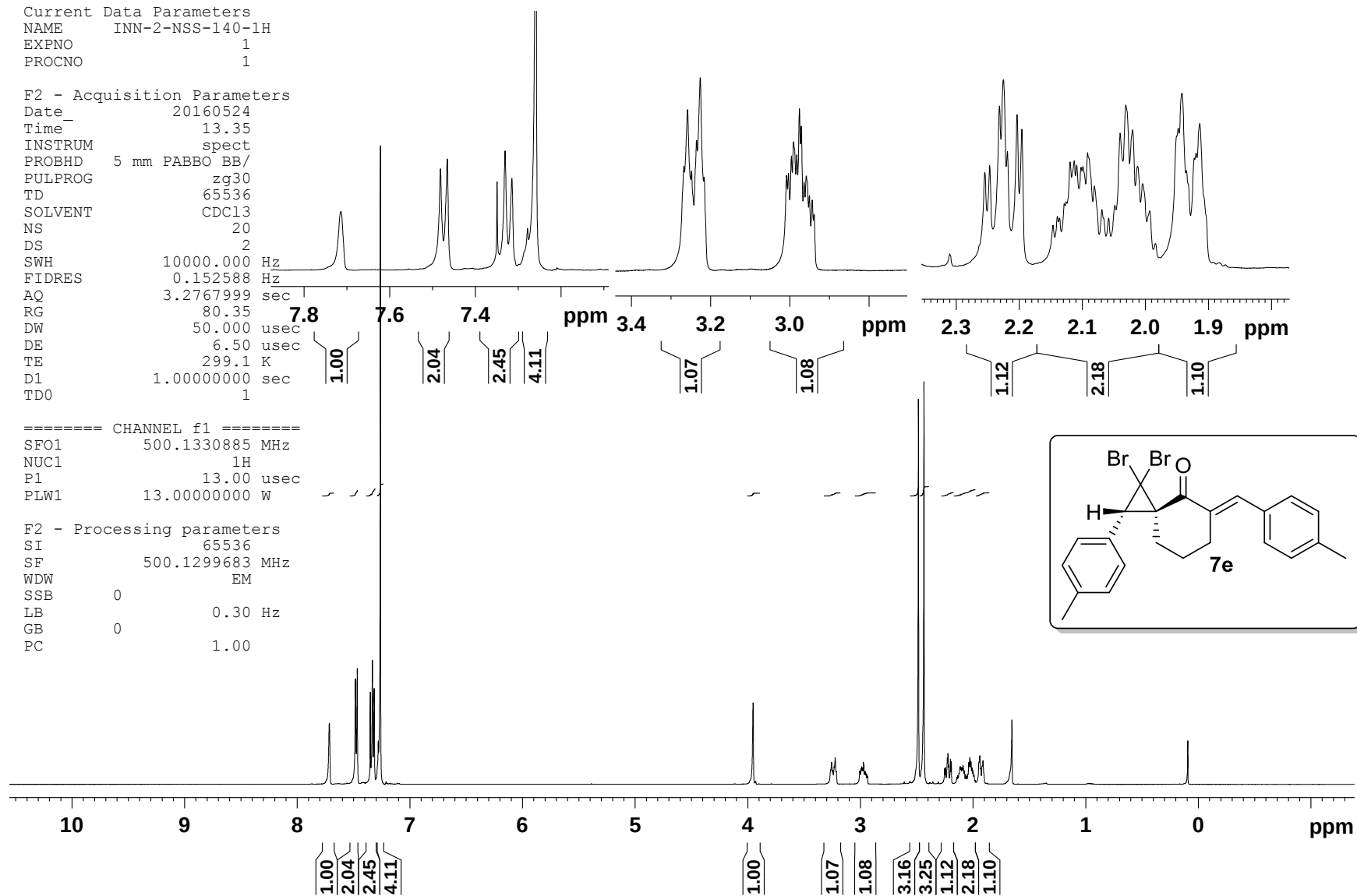
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EXPNO 1
PROCNO 1

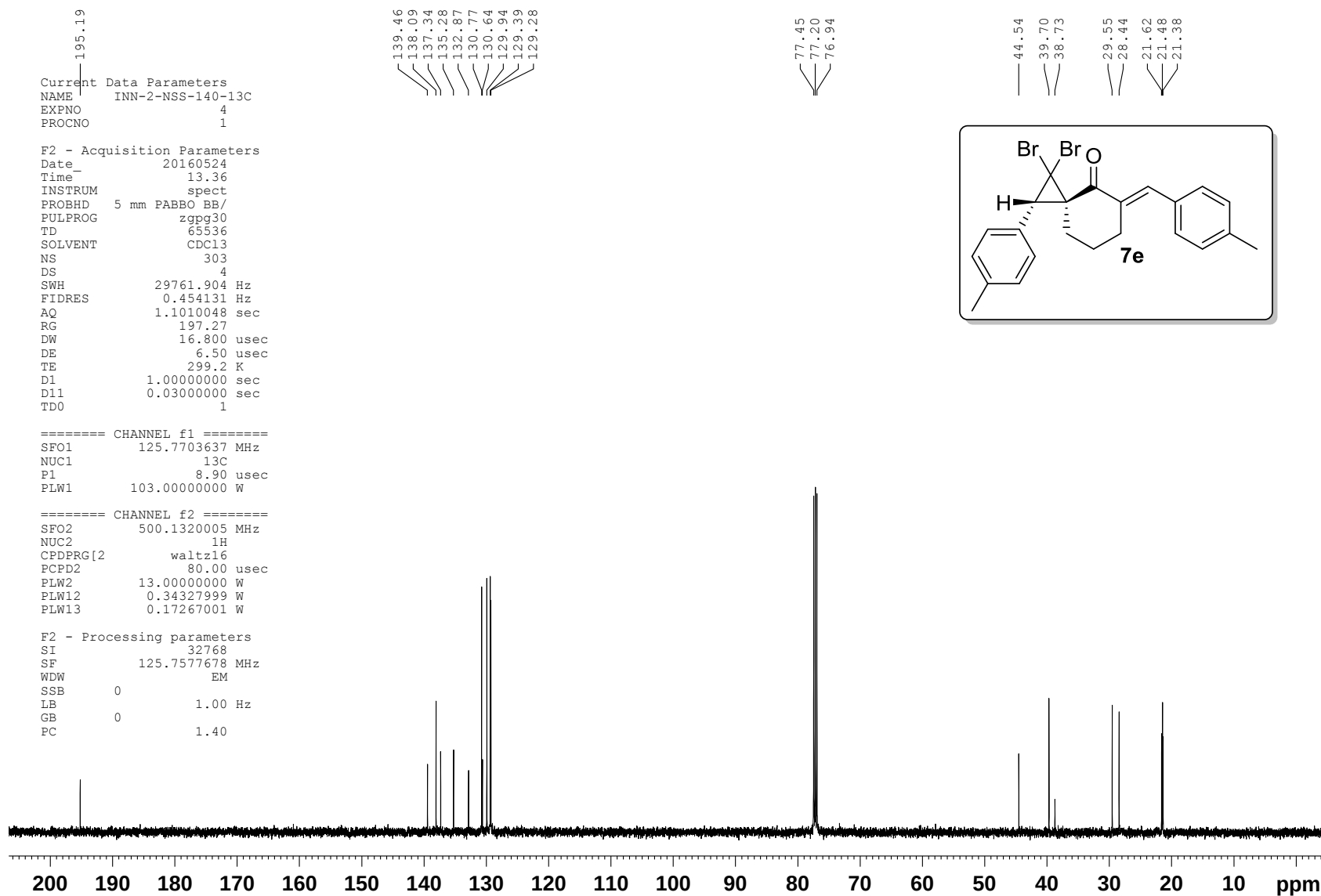
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DS 2
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FIDRES 0.152588 Hz
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RG 80.35
DW 50.000 usec
DE 6.50 usec
TE 299.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
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NUC1 1H
P1 13.00 usec
PLW1 13.00000000 W

F2 - Processing parameters
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SF 500.1299683 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S24. ¹H NMR Spectrum of 7e



Current Data Parameters
 NAME INN-NSS-Br-CyHex-1H-COSY
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters

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 Time 13.41
 INSTRUM spect
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 PULPROG cosygpppgf
 TD 2048
 SOLVENT CDCl3
 NS 16
 DS 4
 SWH 3748.126 Hz
 FIDRES 1.830140 Hz
 AQ 0.2732032 sec
 RG 197.27
 DW 133.400 usec
 DE 6.50 usec
 TE 297.4 K
 DO 0.00000300 sec
 D1 1.00000000 sec
 D11 0.03000000 sec
 D12 0.00020000 sec
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 D16 0.00020000 sec
 IN0 0.00026680 sec

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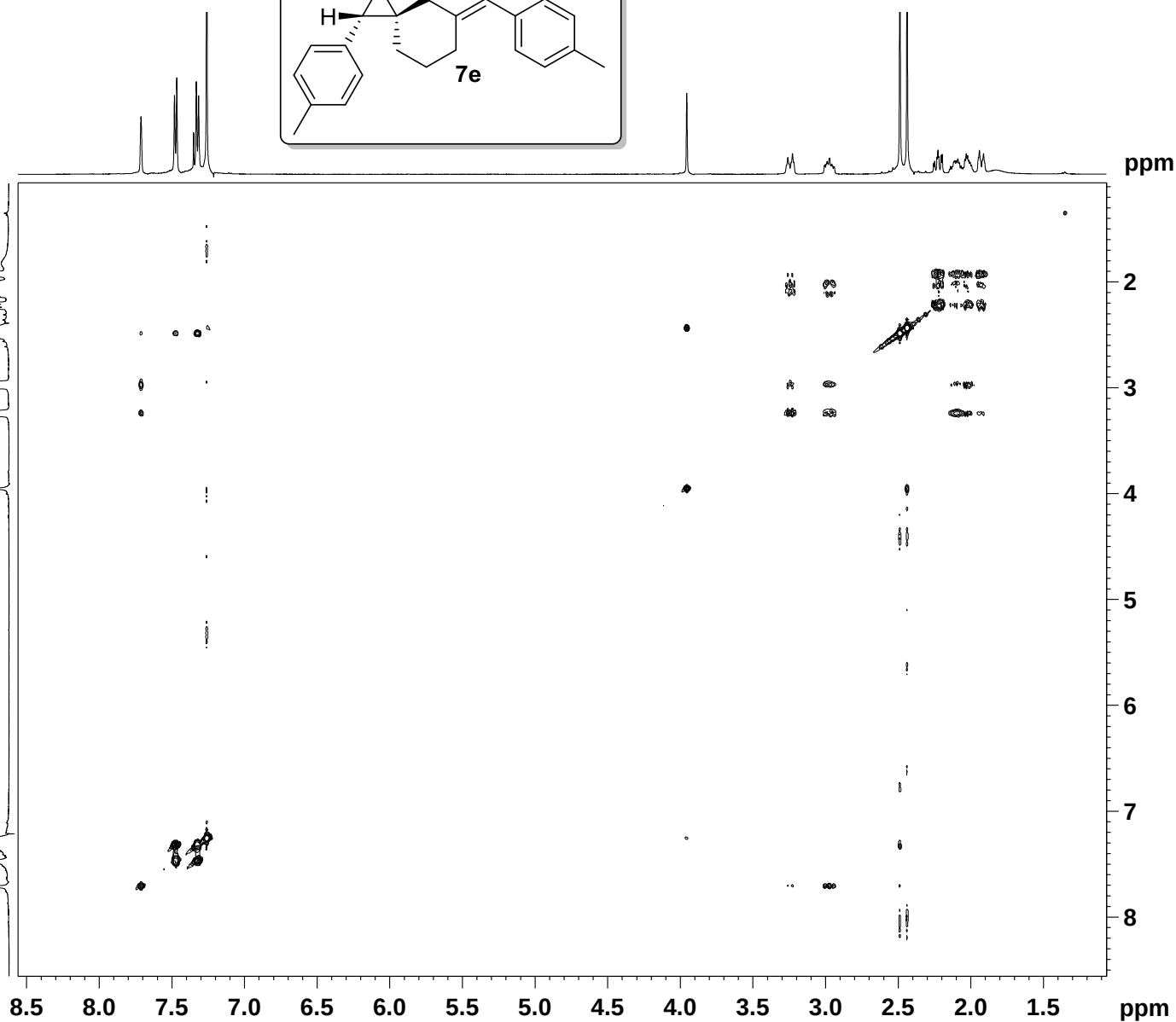
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 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters

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 WDW QSINE
 SSB 0
 LB 0 Hz
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Figure S26. ^1H - ^1H COSY NMR Spectrum of 7e

Current Data Parameters
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EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

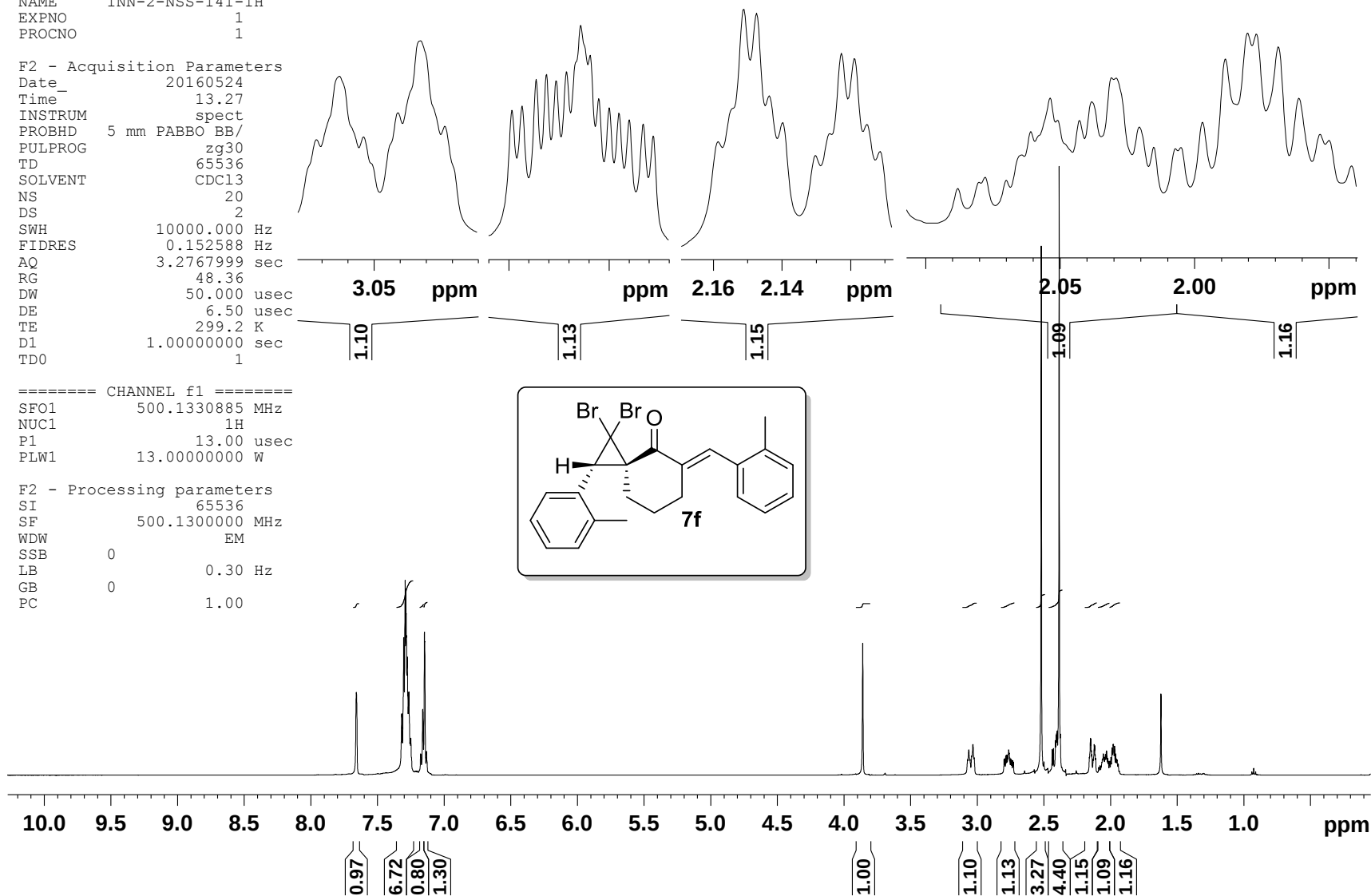
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PULPROG zg30
TD 65536
SOLVENT CDC13
NS 20
DS 2
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2767999 sec
RG 48.36
DW 50.000 usec
DE 6.50 usec
TE 299.2 K
D1 1.00000000 sec
TD0 1

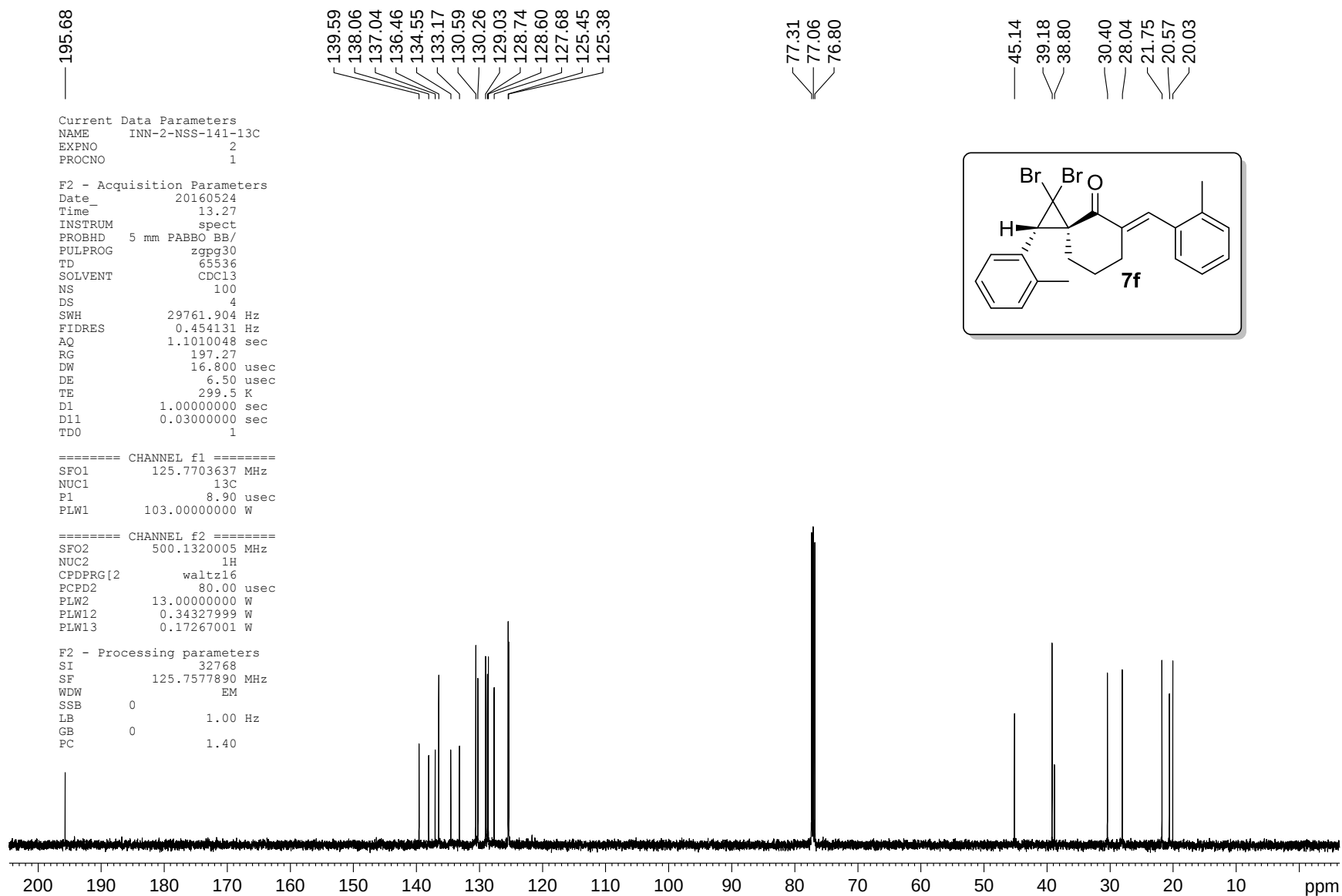
===== CHANNEL f1 =====

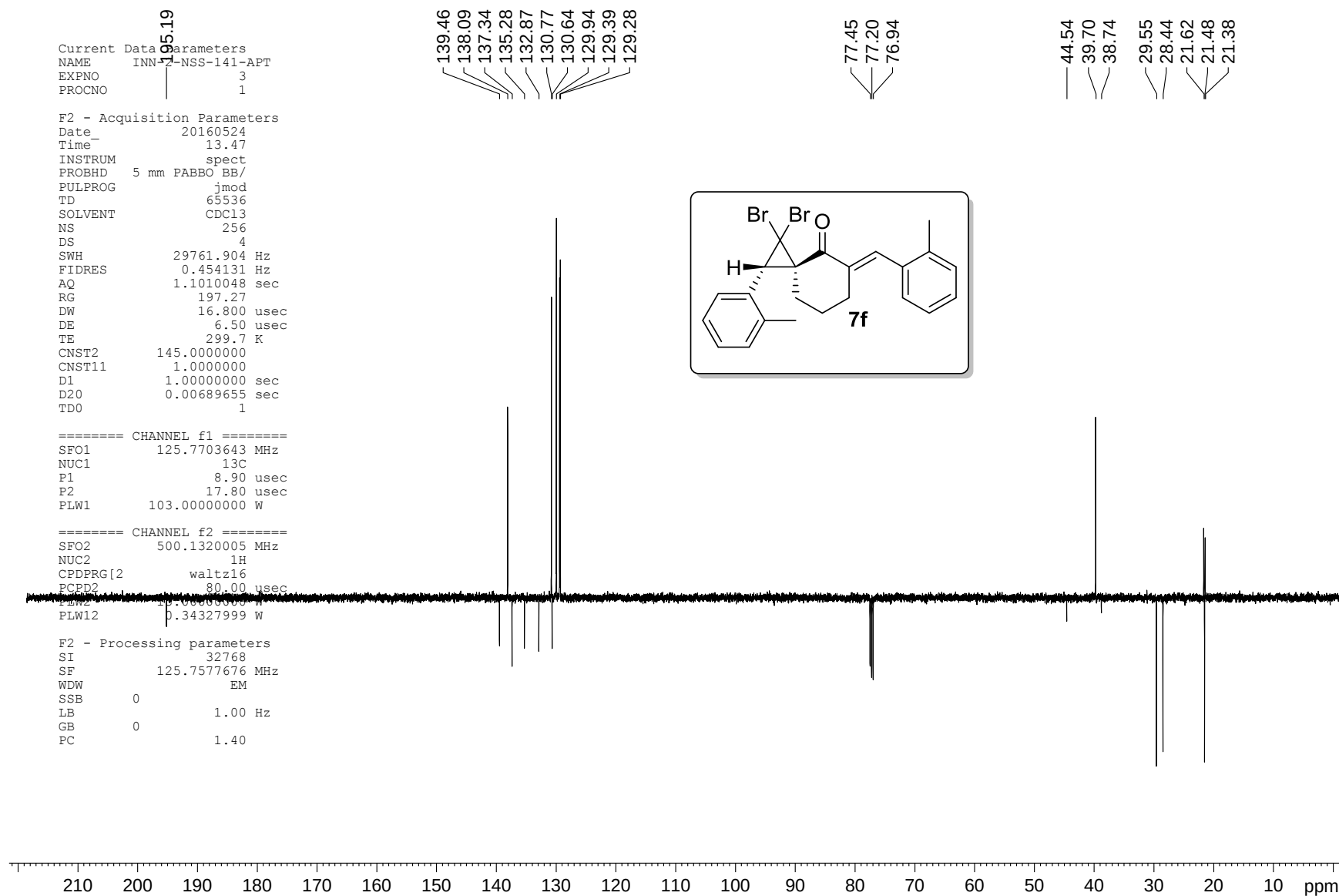
SFO1 500.1330885 MHz
NUC1 1H
P1 13.00 usec
PLW1 13.00000000 W

F2 - Processing parameters

SI 65536
SF 500.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



Figure S28. ¹³C NMR Spectrum of 7f

Figure S29. ¹³C-APT NMR Spectrum of **7f**

Current Data Parameters
 NAME INN-2-NSS-24B-1H
 EXPNO 5
 PROCNO 1

F2 - Acquisition Parameters

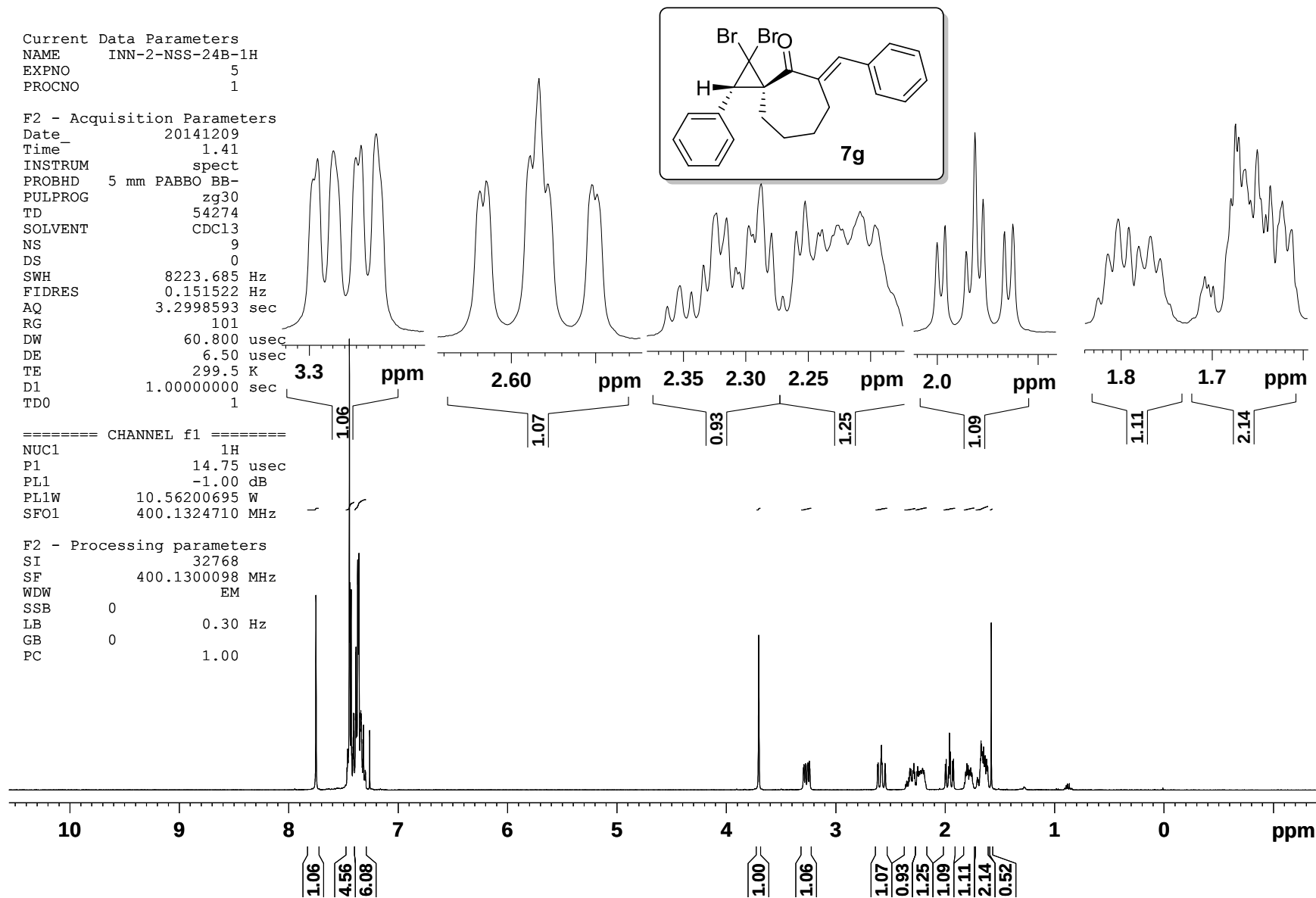
Date_ 20141209
 Time_ 1.41
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 54274
 SOLVENT CDCl3
 NS 9
 DS 0
 SWH 8223.685 Hz
 FIDRES 0.151522 Hz
 AQ 3.2998593 sec
 RG 101
 DW 60.800 usec
 DE 6.50 usec
 TE 299.5 K
 D1 1.00000000 sec
 TDO 1

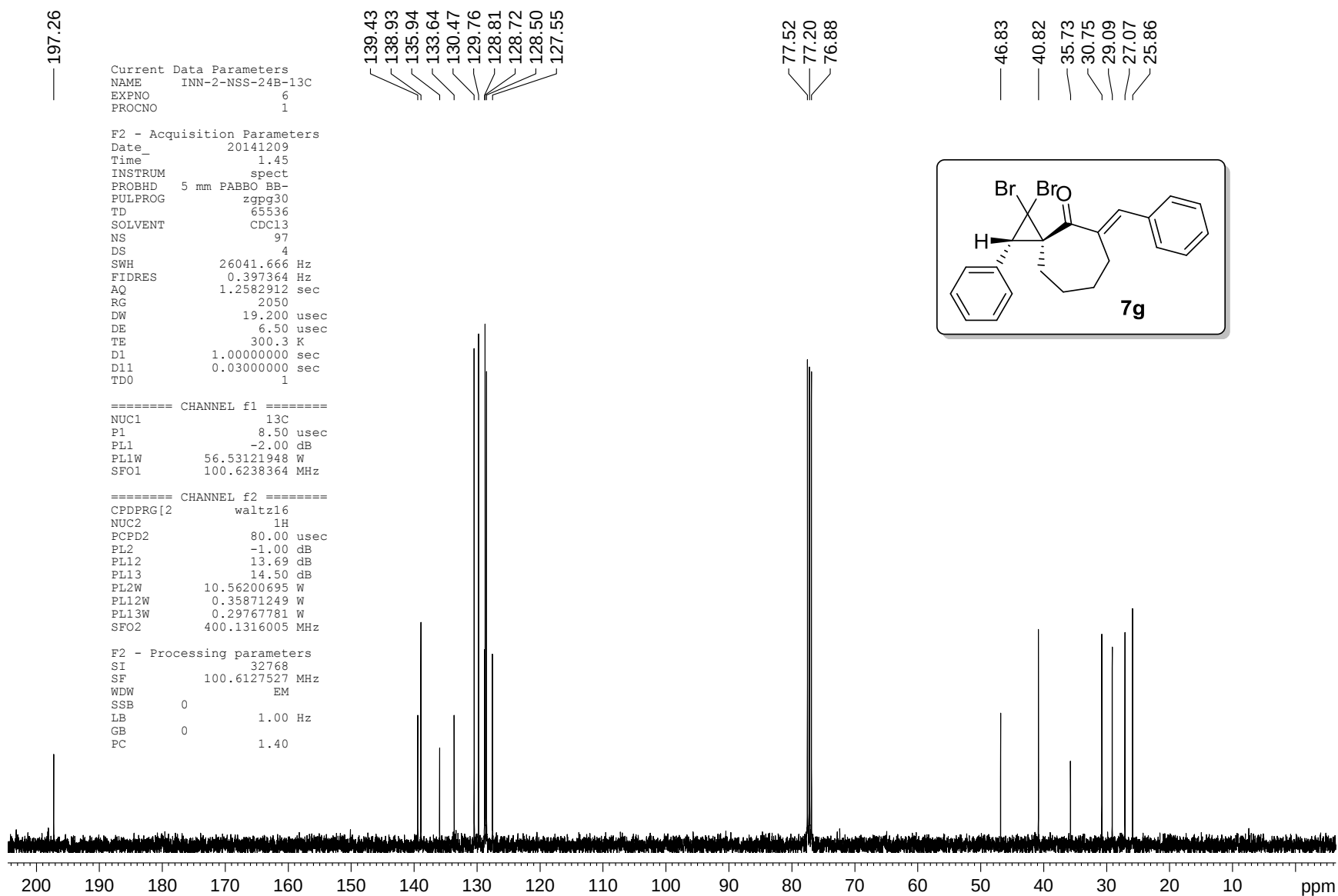
===== CHANNEL f1 =====

NUC1 1H
 P1 14.75 usec
 PL1 -1.00 dB
 PL1W 10.56200695 W
 SFO1 400.1324710 MHz

F2 - Processing parameters

SI 32768
 SF 400.1300098 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Figure S30. ¹H NMR Spectrum of 7g



Current Data Parameters
 NAME INN-NSS-CY-HEPT-COSY
 EXPNO 3
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190106
 Time_ 18.22
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpppgf
 TD 2048
 SOLVENT CDCl3
 NS 32
 DS 0
 SWH 4040.948 Hz
 FIDRES 1.973119 Hz
 AQ 0.2534059 sec
 RG 197.27
 DW 123.733 usec
 DE 6.50 usec
 TE 294.9 K
 D0 0.00000300 sec
 D1 1.00000000 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00024740 sec

===== CHANNEL f1 =====
 SFO1 500.1324828 MHz
 NUC1 1H
 P0 13.35 usec
 P1 13.35 usec
 P17 5000.00 usec
 PLW1 16.00000000 W
 PLW10 3.16840005 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GP21 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 500.1325 MHz
 FIDRES 31.578415 Hz
 SW 8.082 ppm
 FnmODE QF

F2 - Processing parameters
 SI 1024
 SF 500.1300115 MHz
 WDW QSINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 500.1300115 MHz
 WDW QSINE
 SSB 0
 LB 0 Hz
 GB 0

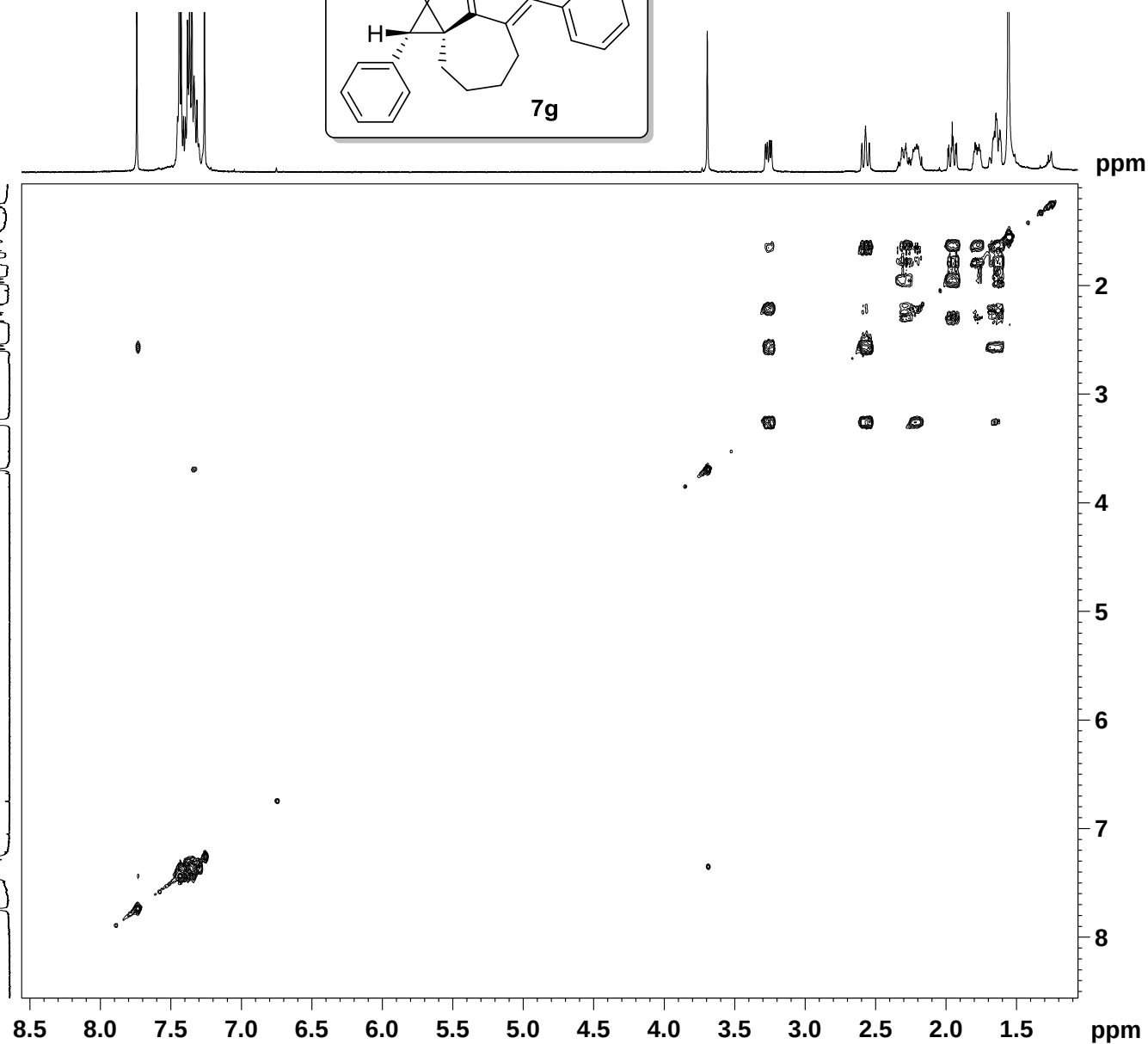
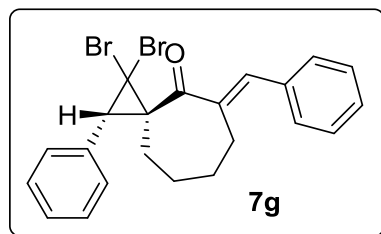
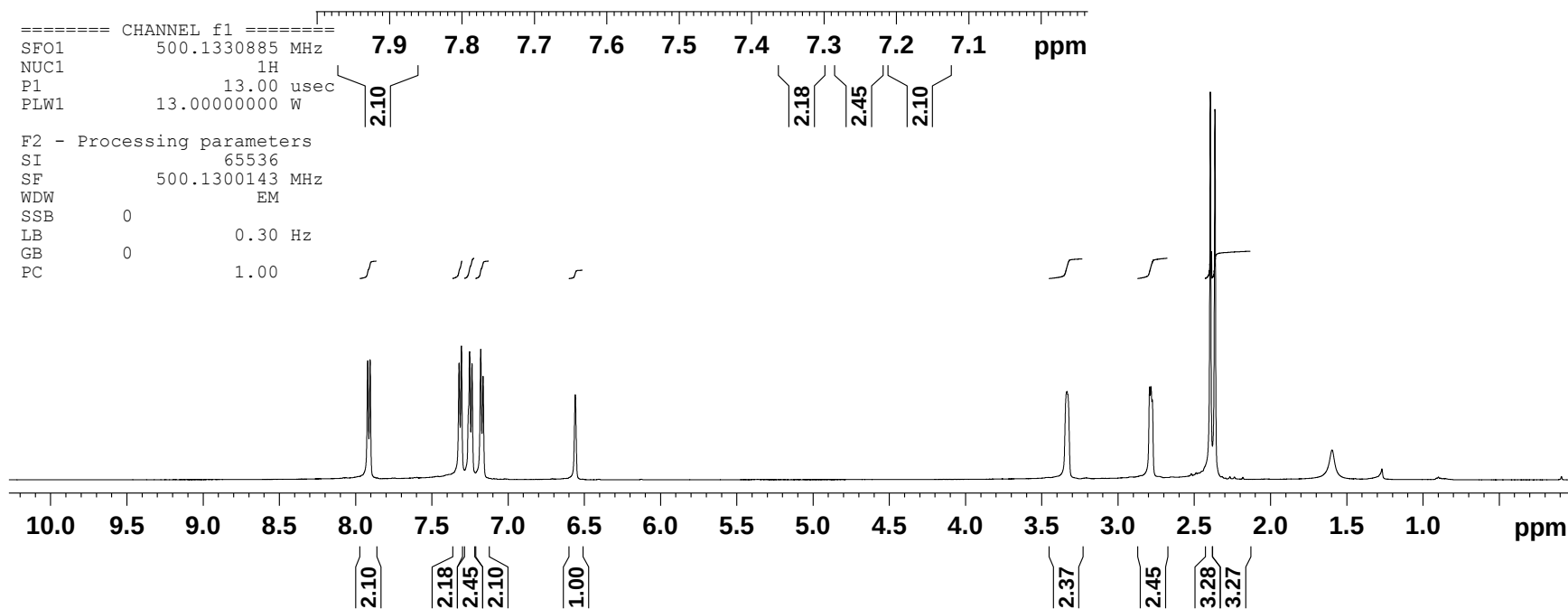
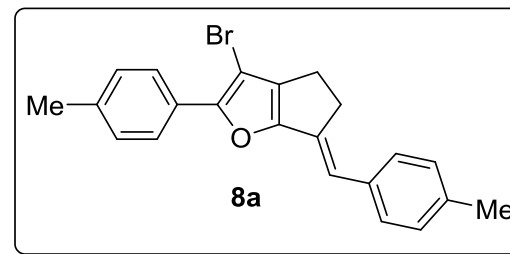


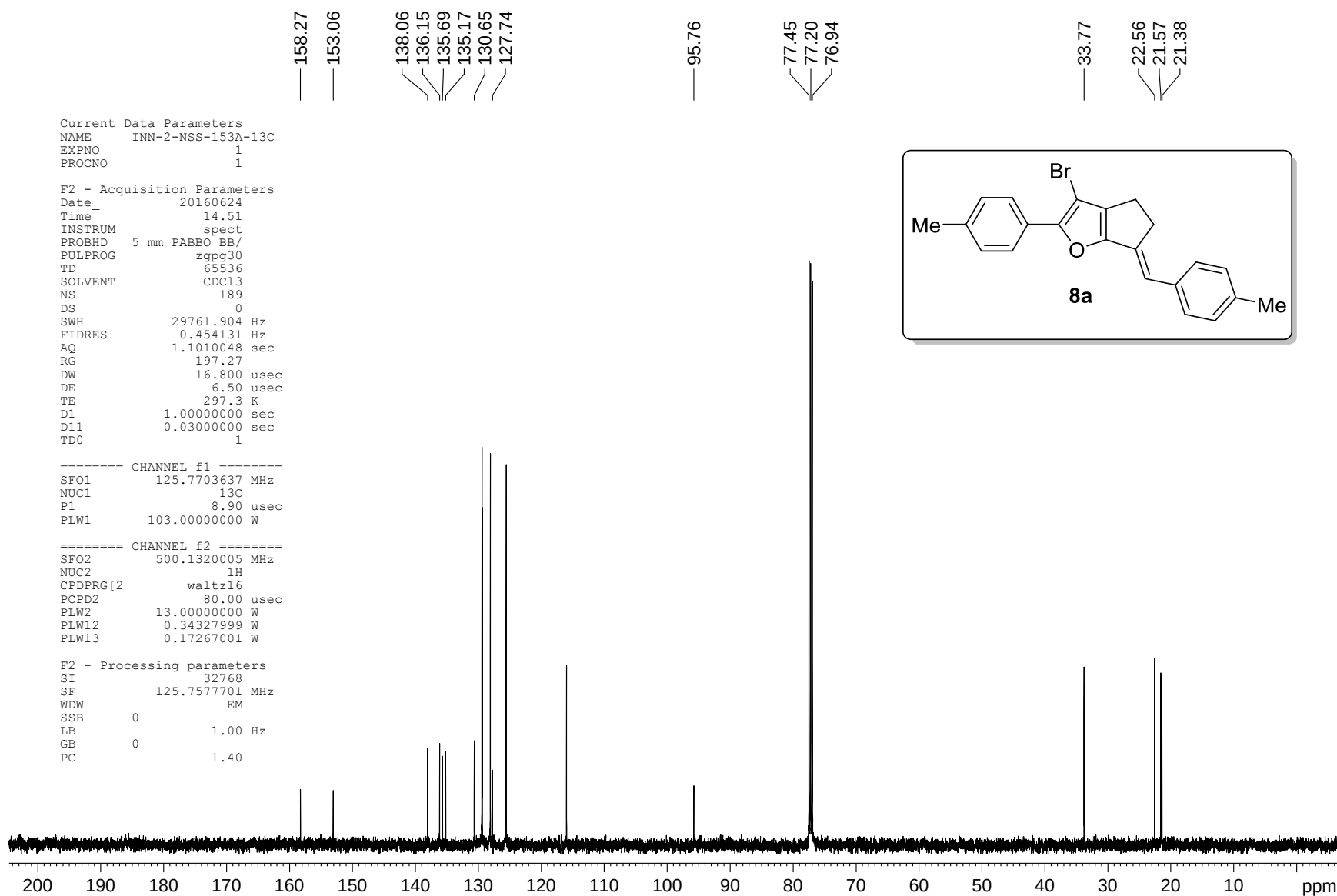
Figure S32. ^1H - ^1H COSY NMR Spectrum of 7g

Current Data Parameters
NAME INN-2-NSS-153A-1H
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20160624
Time_ 15.17
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 2
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2767999 sec
RG 80.35
DW 50.000 usec
DE 6.50 usec
TE 296.7 K
D1 1.00000000 sec
TD0 1

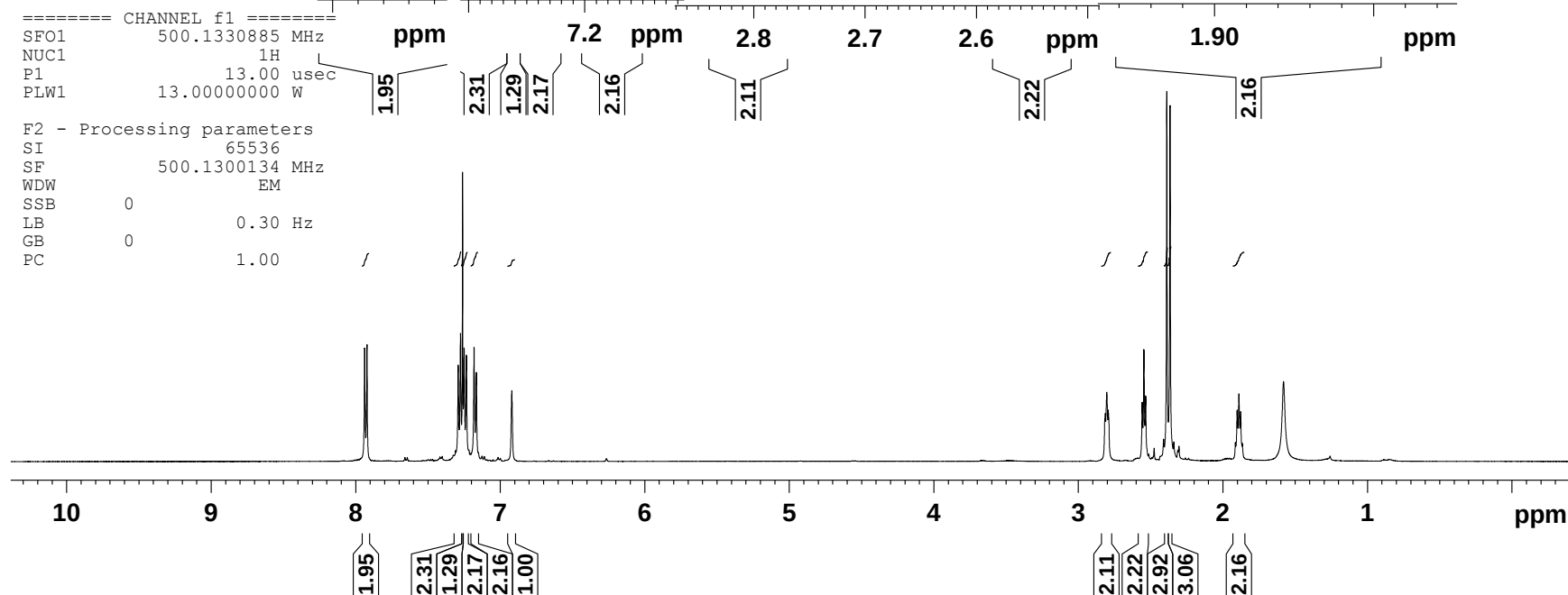
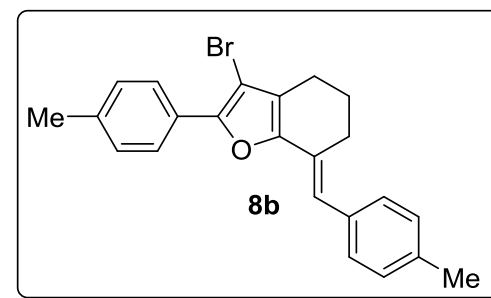
Figure S33. ¹H NMR Spectrum of 8a

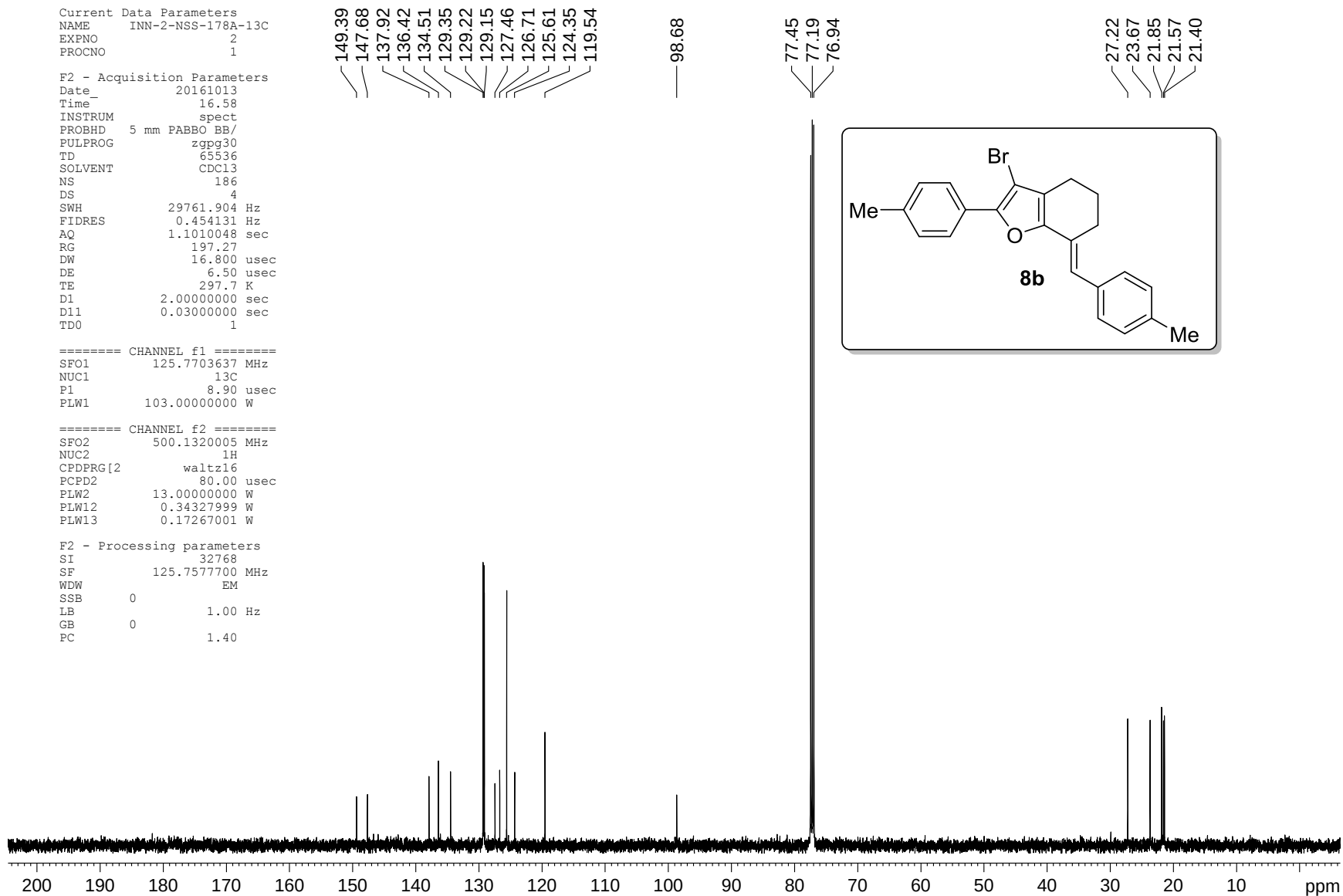
Figure S34. ¹³C NMR Spectrum of **8a**

Current Data Parameters
NAME INN-2-NSS-178A-1H
EXPNO 7
PROCNO 1

F2 - Acquisition Parameters

Date_ 20161022
Time_ 20.34
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 15
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2767999 sec
RG 85.91
DW 50.000 usec
DE 6.50 usec
TE 296.9 K
D1 1.00000000 sec
TD0 1

Figure S35. ¹H NMR Spectrum of 8b



Current Data Parameters
 NAME INN-2-NSS-178A-APT
 EXPNO 3
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20161013
 Time 17.06
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 136
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010048 sec
 RG 197.27
 DW 16.800 usec
 DE 6.50 usec
 TE 297.8 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 1.00000000 sec
 D20 0.00689655 sec
 TD0 1

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

SFO1 125.7703643 MHz
 NUC1 13C
 P1 8.90 usec
 P2 17.80 usec
 PLW1 103.00000000 W

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

SFO2 500.1320005 MHz
 NUC2 1H
 CPDPRG2 waltz16
 PCPD2 80.00 usec
 PLW2 103.00000000 W

===== CHANNEL f3 =====

SFO3 101.6261250 MHz
 NUC3 31P
 P3 12.00 usec
 PLW3 103.00000000 W

F2 - Processing parameters

SI 32768
 SF 125.7577693 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

149.40
 147.68
 137.93
 136.43
 134.51
 129.35
 129.23
 129.15
 127.47
 126.71
 125.62
 124.35
 119.55

98.68

77.45
 77.20
 76.94

27.23
 23.68
 21.86
 21.57
 21.40

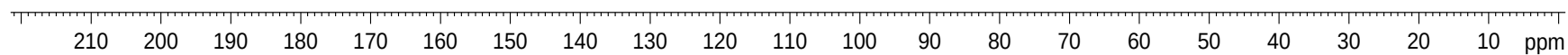
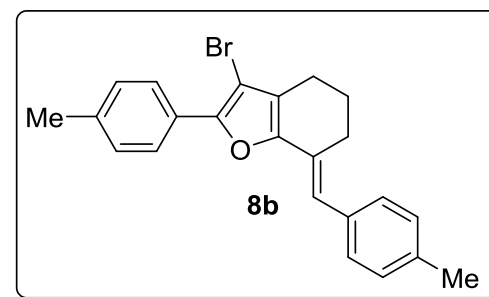


Figure S37. ¹³C-APT NMR Spectrum of 8b

Current Data Parameters
NAME INN-2-NSS-CW-Cyhept-1H
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190724
Time_ 17.20
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2767999 sec
RG 157.24
DW 50.000 usec
DE 6.50 usec
TE 297.4 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 500.1330885 MHz
NUC1 1H
P1 13.00 usec
PLW1 13.00000000 W

F2 - Processing parameters
SI 65536
SF 500.1300128 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

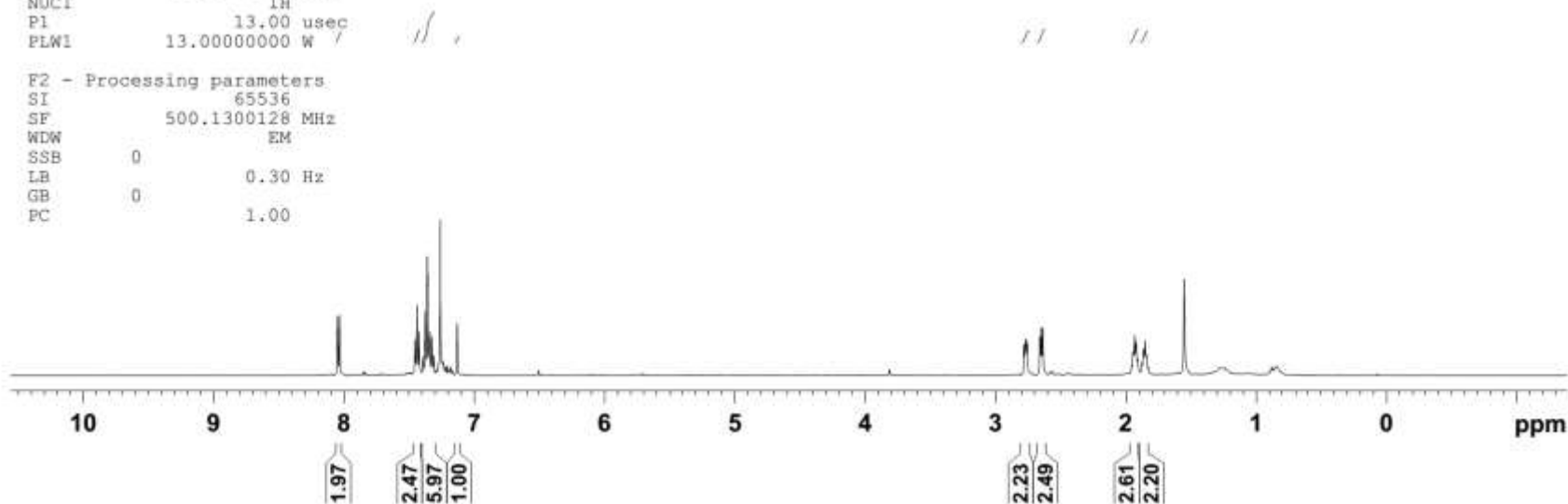
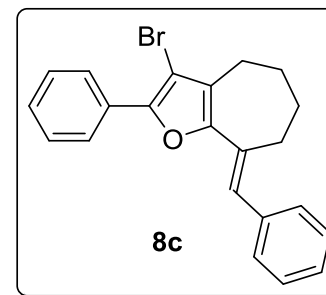
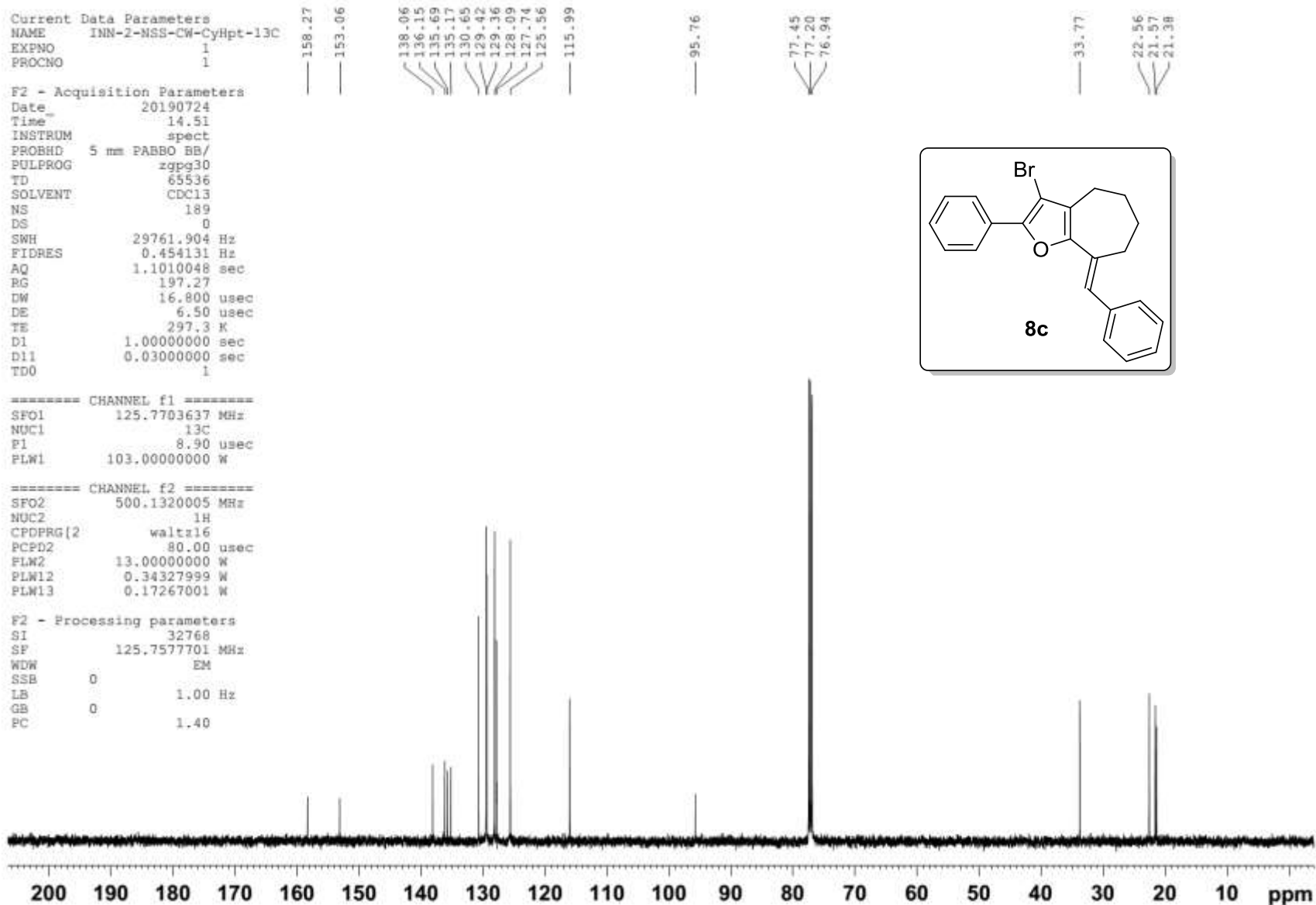


Figure S38. ¹H NMR Spectrum of 8c

Figure S39. ¹³C NMR Spectrum of 8c

```

Current Data Parameters
NAME      inn-an-11-1h
EXPNO     1
PROCNO    1

F2 - Acquisition Parameters
Date_     20150812
Time      17.48
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         20
DS         2
SWH        10000.000 Hz
FIDRES     0.152588 Hz
AQ         3.2767999 sec
RG         98.91
BW         50.000 usec
DE         6.50 usec
TE         296.5 K
D1         1.00000000 sec
TD0        1

----- CHANNEL f1 -----
SFO1      500.1330885 MHz
NUC1       1H
P1         13.00 usec
PCW1       13.00000000 W

F2 - Processing parameters
SI         65536
SF         500.1300119 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00

```

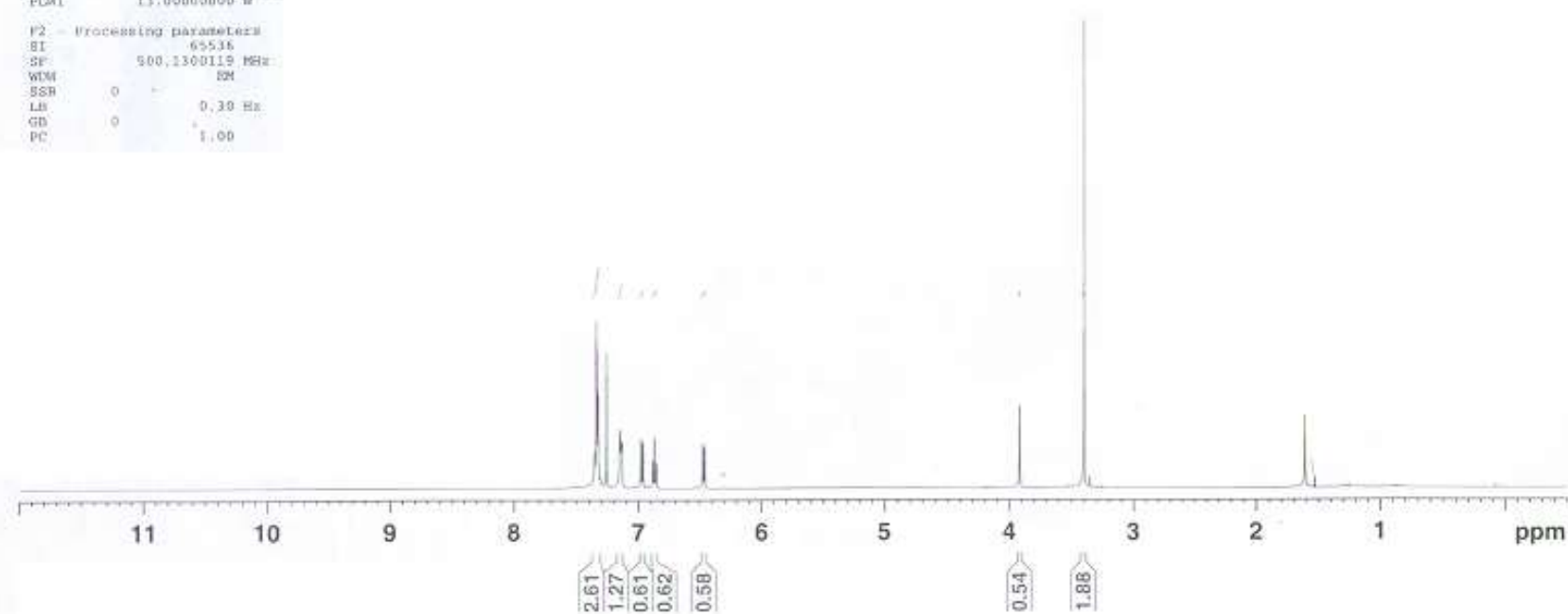
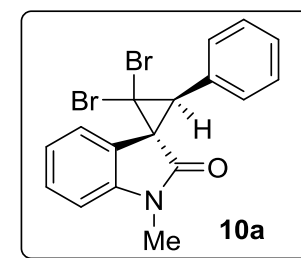
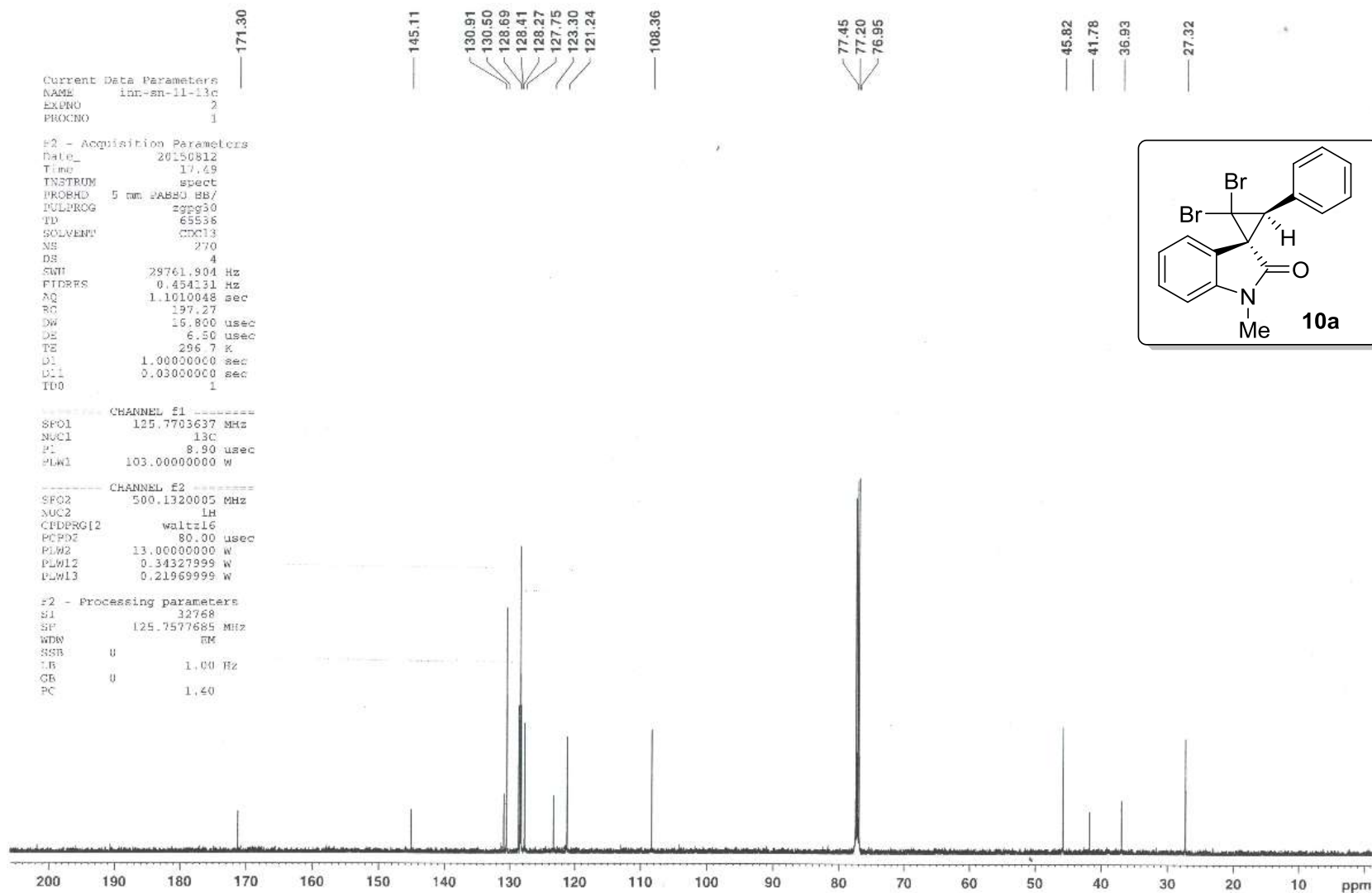


Figure S40. ^1H NMR Spectrum of **10a**

Figure S41. ^{13}C NMR Spectrum of 10a

Current Data Parameters
NAME INN-SN-29-1H
EXPNO 6
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160217
Time_ 20.01
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 25
DS 2
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2767999 sec
RG 98.91
DW 50.000 usec
DE 6.50 usec
TE 296.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 500.1330885 MHz
NUC1 1H
P1 13.00 usec
PLW1 13.00000000 W

F2 - Processing parameters
SI 65536
SF 500.1300120 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

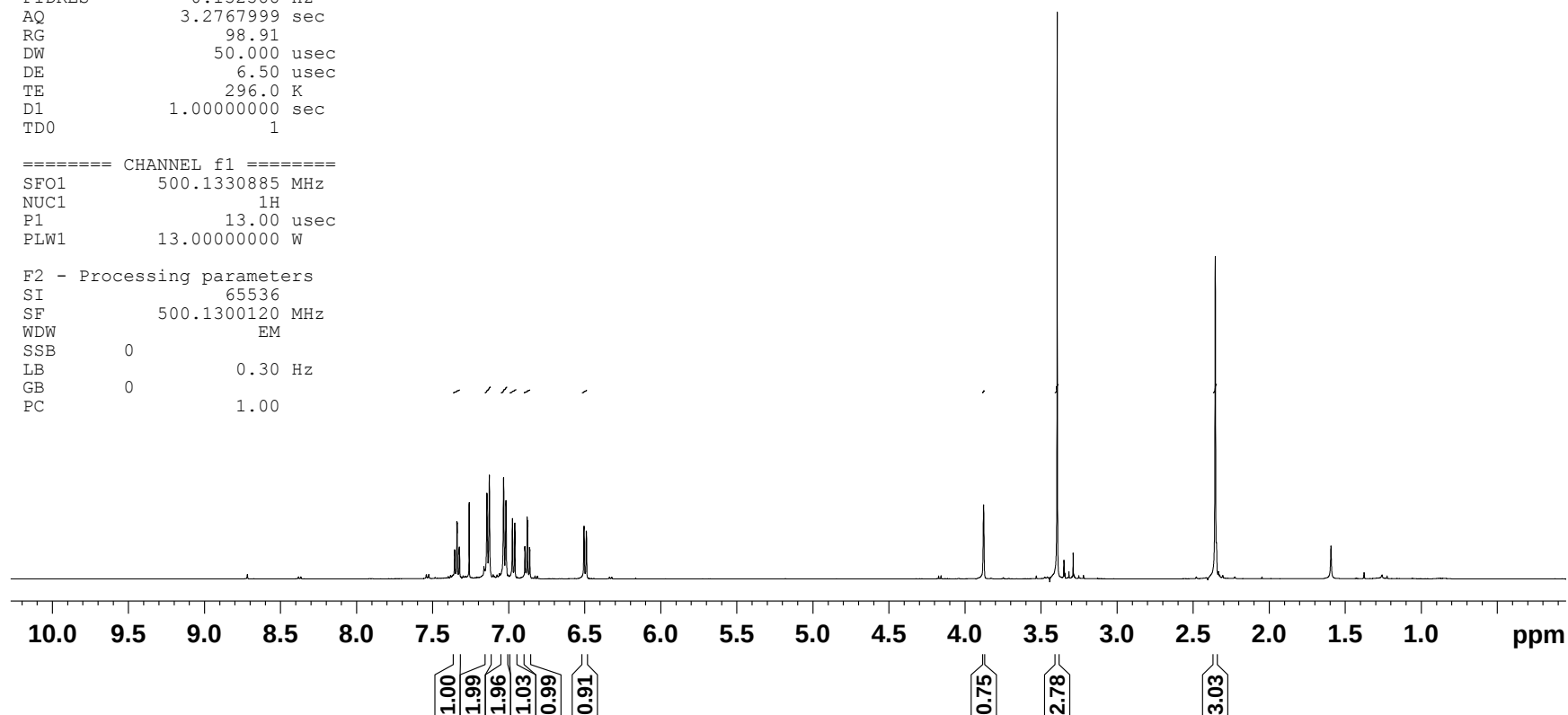
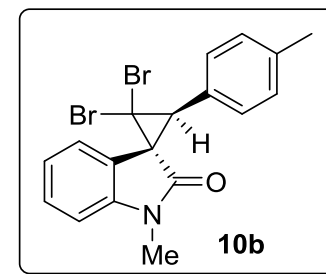
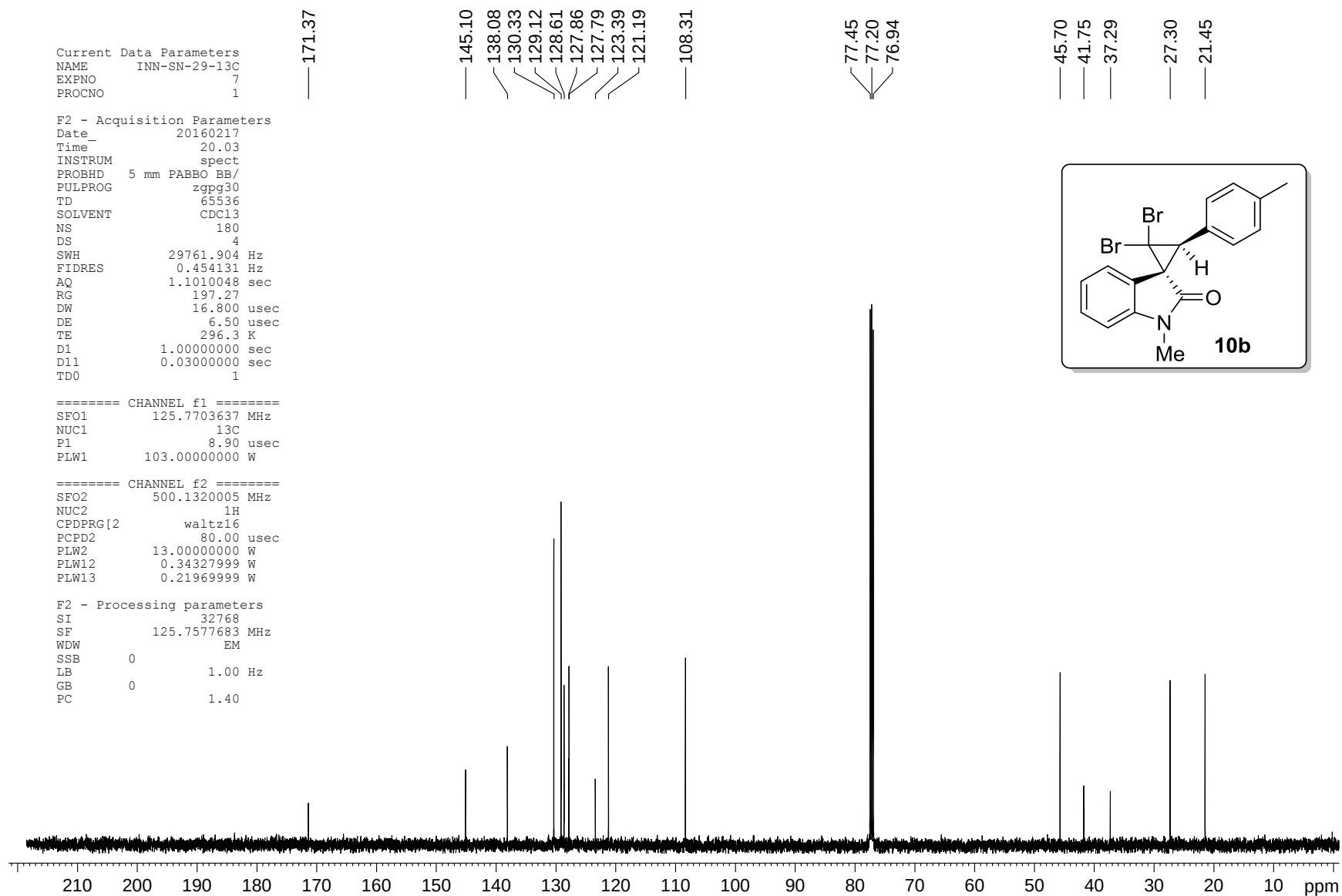


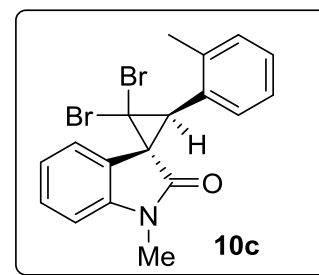
Figure S42. ^1H NMR Spectrum of 10b

Figure S43. ¹³C NMR Spectrum of **10b**

Current Data Parameters
NAME INN-SN-36-1H
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters

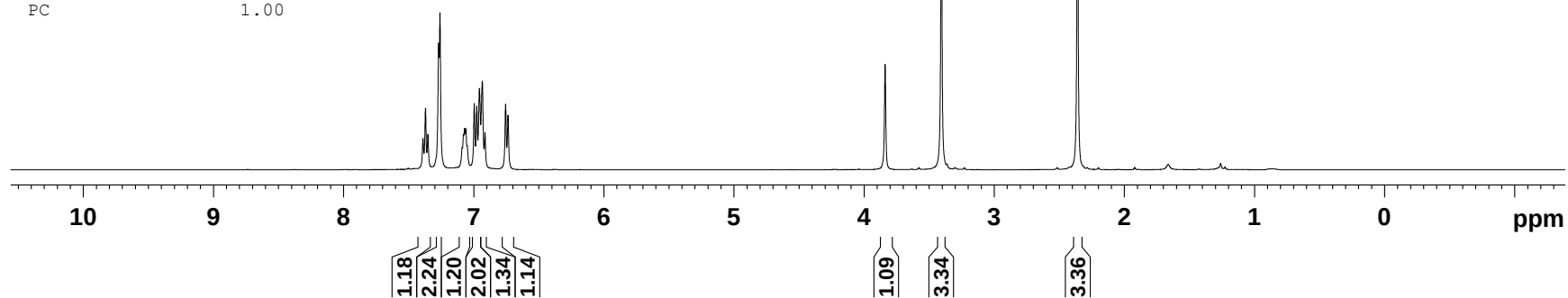
Date_ 20160413
Time_ 5.02
INSTRUM spect
PROBHD 5 mm SEI 1H/D-
PULPROG zg30
TD 54274
SOLVENT CDCl3
NS 11
DS 0
SWH 8223.685 Hz
FIDRES 0.151522 Hz
AQ 3.2998593 sec
RG 71.8
DW 60.800 usec
DE 6.50 usec
TE 294.7 K
D1 1.00000000 sec
TD0 1



===== CHANNEL f1 =====
NUC1 1H
P1 6.75 usec
PL1 -3.00 dB
PL1W 16.73965454 W
SFO1 400.1324710 MHz

F2 - Processing parameters

SI 32768
SF 400.1300116 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S44. ¹H NMR Spectrum of 10c

Current Data Parameters
 NAME INN-SN-36-13C
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20160413
 Time_ 5.04
 INSTRUM spect
 PROBHD 5 mm SEI 1H/D-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 567
 DS 0
 SWH 26041.666 Hz
 FIDRES 0.397364 Hz
 AQ 1.2582912 sec
 RG 28.5
 DW 19.200 usec
 DE 6.50 usec
 TE 295.3 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 PL1W 56.53121948 W
 SFO1 100.6238364 MHz

===== CHANNEL f2 =====
 CPDPRG[2] waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -1.00 dB
 PL12 13.69 dB
 PL13 14.50 dB
 PL2W 10.56200695 W
 PL12W 0.35871249 W
 PL13W 0.29767781 W
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127548 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

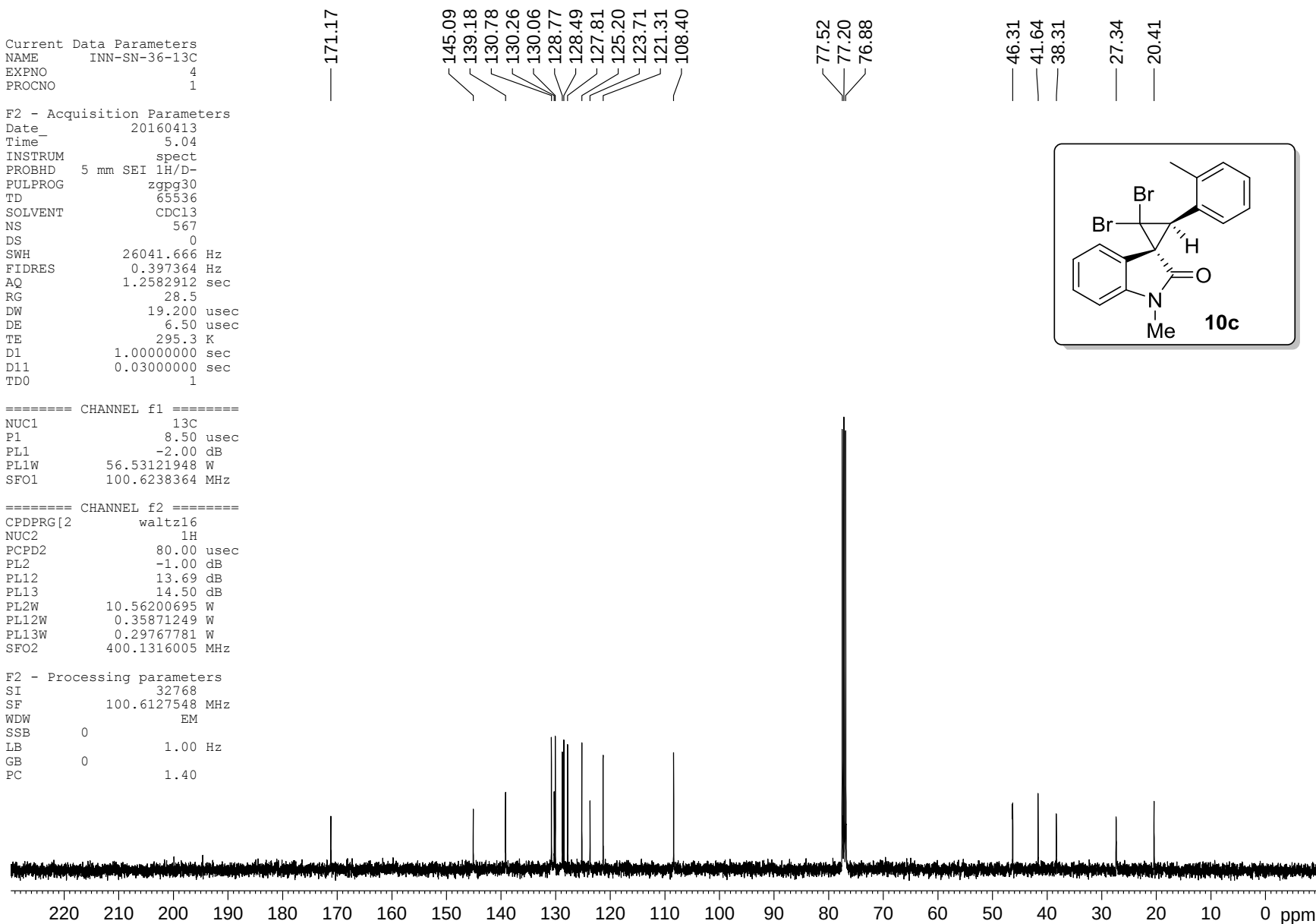


Figure S45. ^{13}C NMR Spectrum of 10c

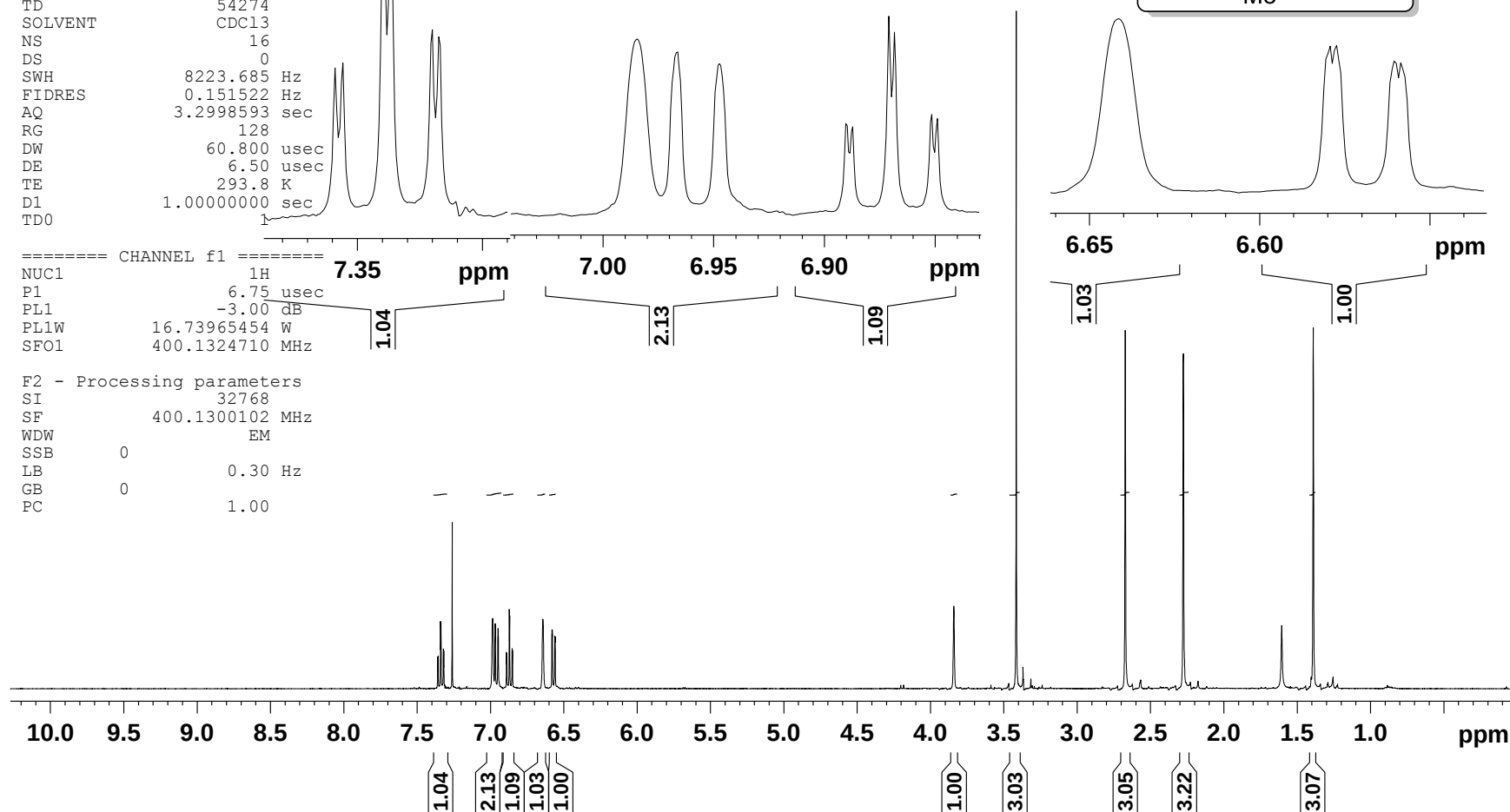
Current Data Parameters
 NAME INN-SN-34-1H
 EXPNO 2
 PROCNO 1

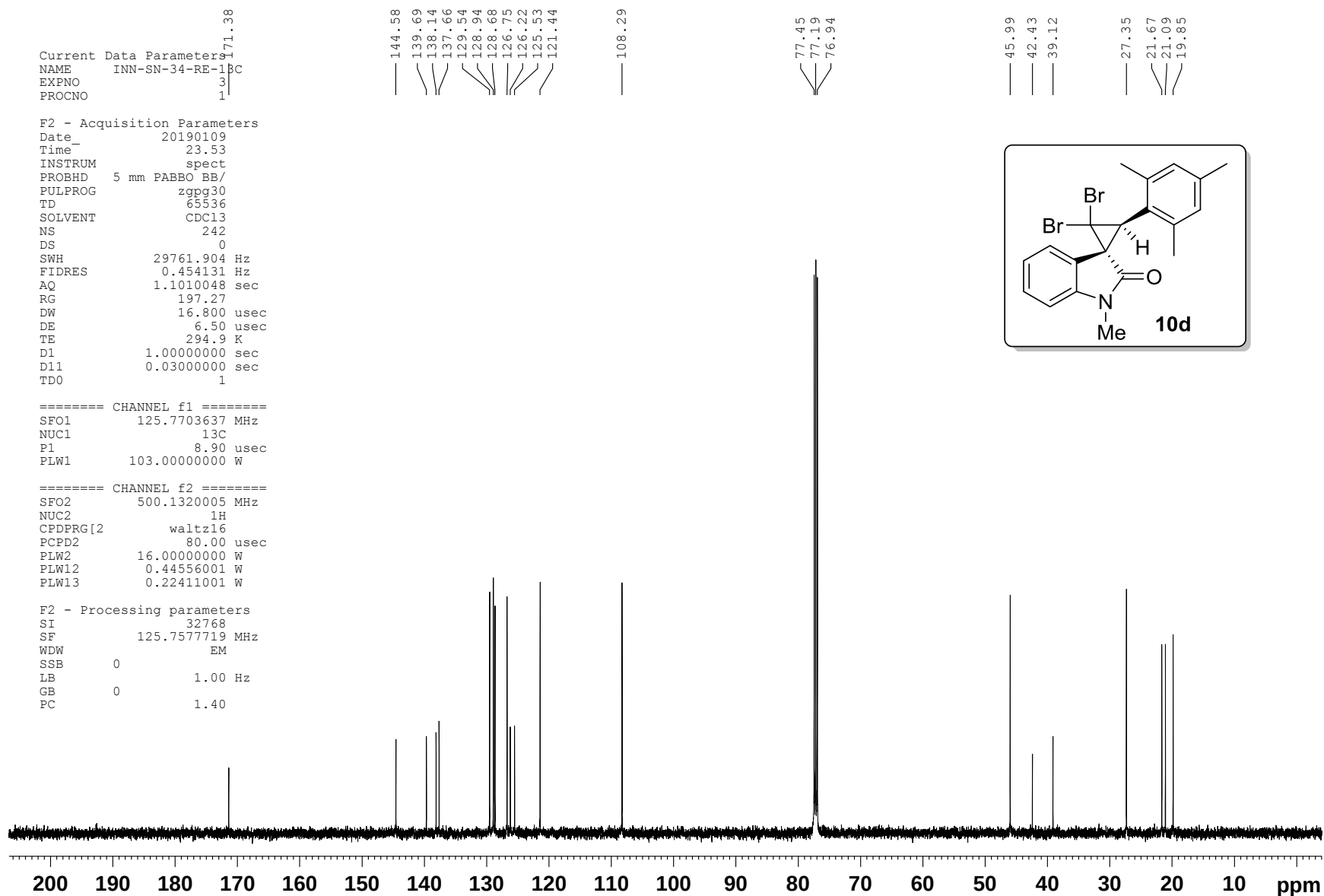
F2 - Acquisition Parameters

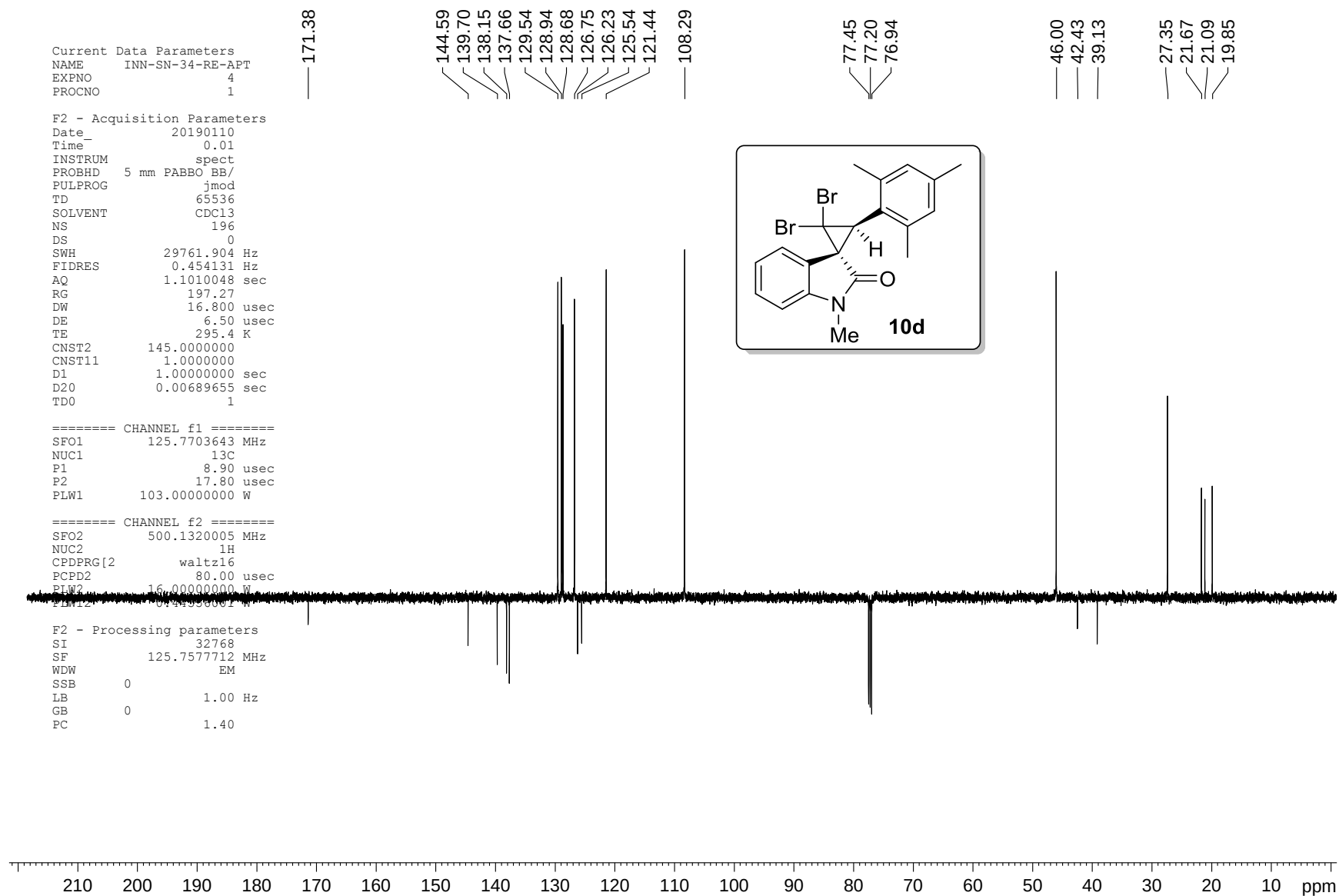
Date 20160402
 Time 9.33
 INSTRUM spect
 PROBHD 5 mm SEI 1H/D-
 PULPROG zg30
 TD 54274
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 8223.685 Hz
 FIDRES 0.151522 Hz
 AQ 3.2998593 sec
 RG 128
 DW 60.800 usec
 DE 6.50 usec
 TE 293.8 K
 D1 1.00000000 sec
 TD0

===== CHANNEL f1 =====
 NUC1 1H
 P1 6.75 usec
 PL1 -3.00 dB
 PL1W 16.73965454 W
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300102 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Figure S46. ^1H NMR Spectrum of 10d

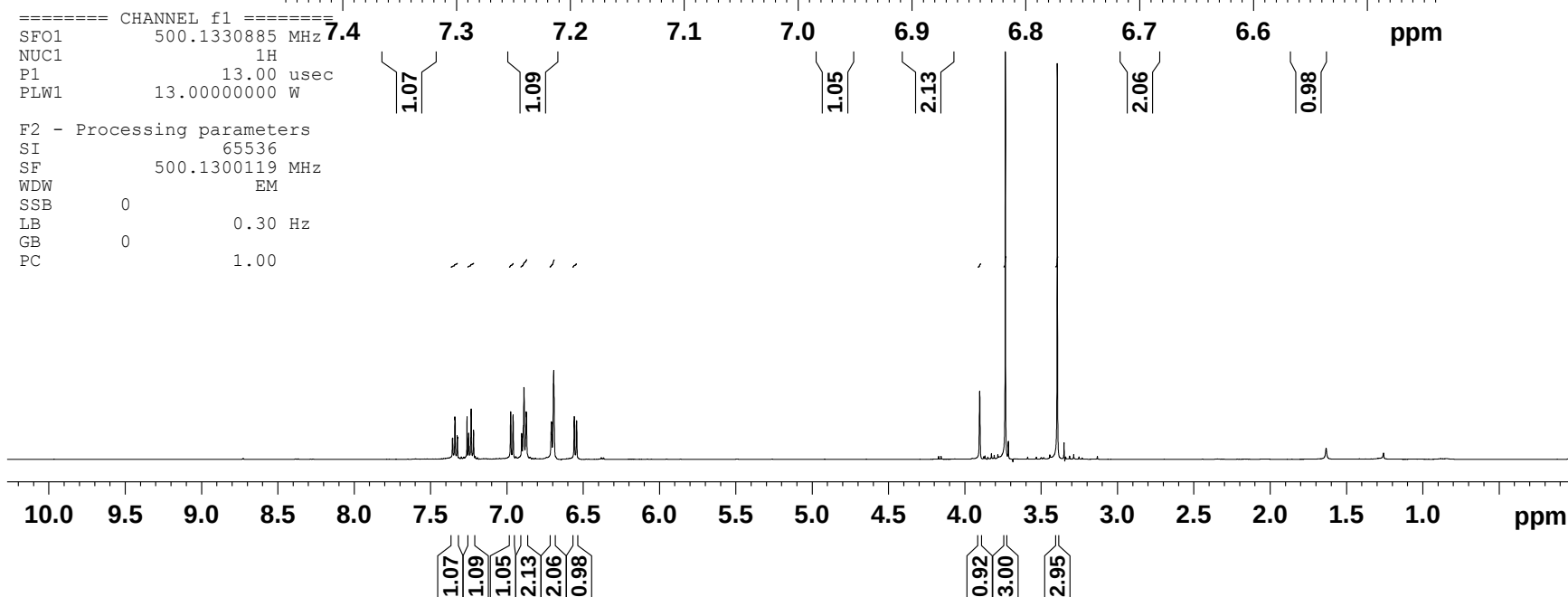
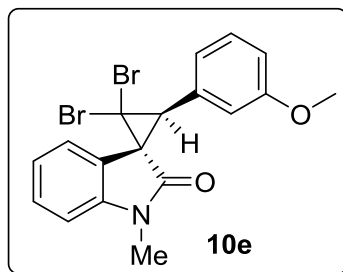
Figure S47. ¹³C NMR Spectrum of 10d

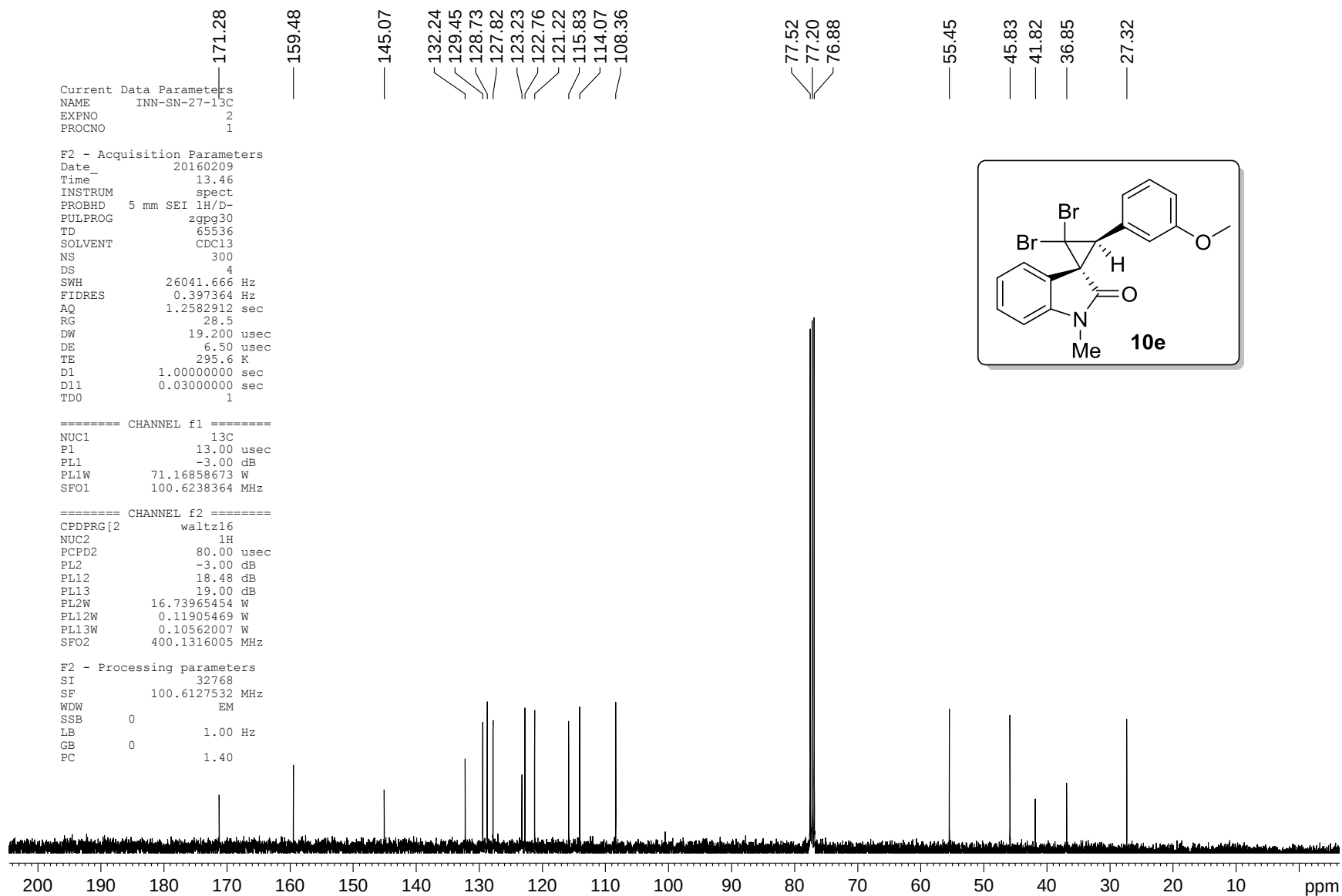


Current Data Parameters
 NAME INN-SN-27-1H
 EXPNO 5
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20160217
 Time_ 19.56
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 25
 DS 2
 SWH 10000.000 Hz
 FIDRES 0.152588 Hz
 AQ 3.2767999 sec
 RG 69.35
 DW 50.000 usec
 DE 6.50 usec
 TE 296.0 K
 D1 1.00000000 sec
 TD0 1

Figure S49. ¹H NMR Spectrum of 10e



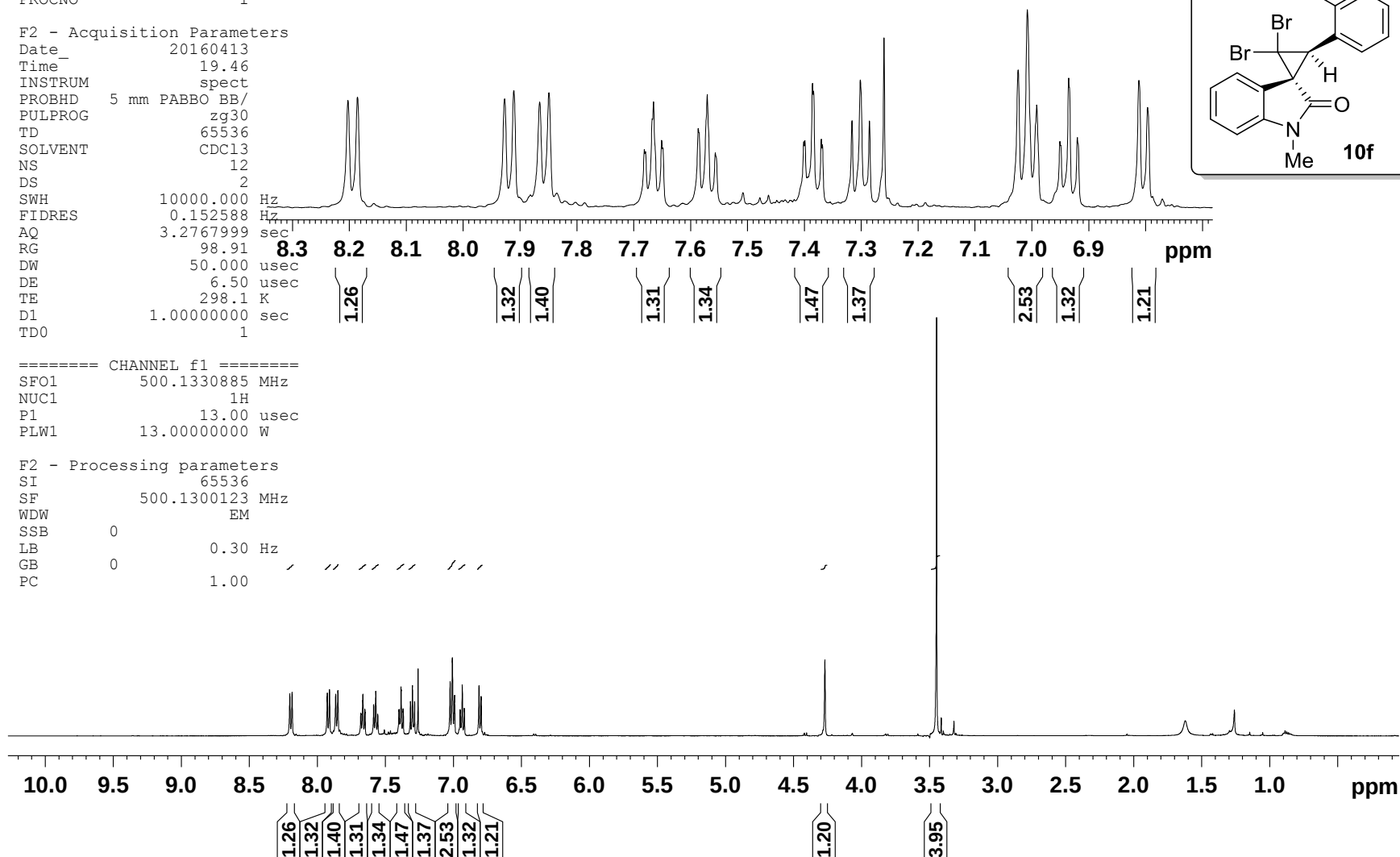
Current Data Parameters
 NAME INN-SN-37-1H
 EXPNO 2
 PROCNO 1

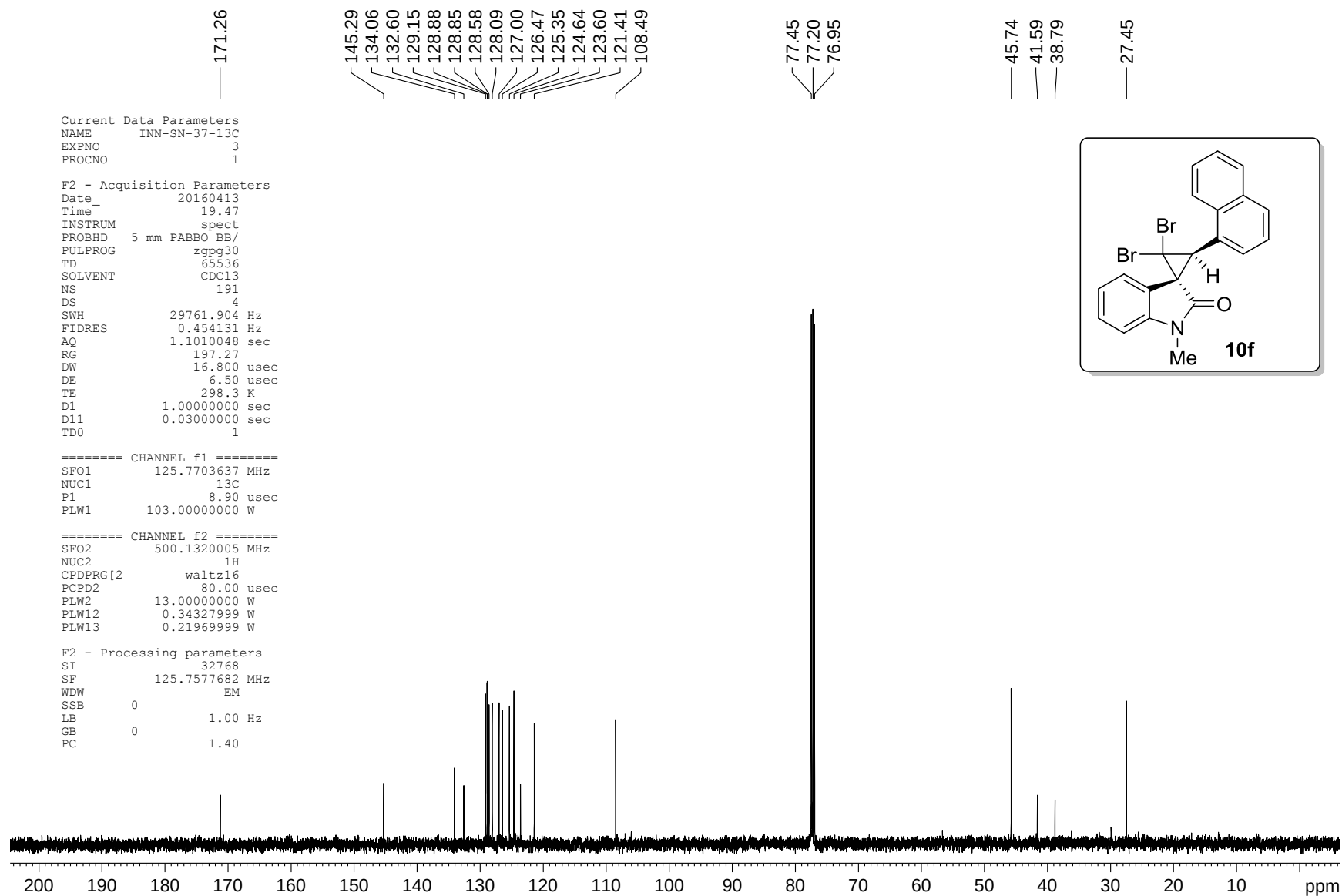
F2 - Acquisition Parameters

Date_ 20160413
 Time_ 19.46
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 12
 DS 2
 SWH 10000.000 Hz
 FIDRES 0.152588 Hz
 AQ 3.2767999 sec
 RG 98.91
 DW 50.000 usec
 DE 6.50 usec
 TE 298.1 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 500.1330885 MHz
 NUC1 1H
 P1 13.00 usec
 PLW1 13.00000000 W

F2 - Processing parameters
 SI 65536
 SF 500.1300123 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Figure S51. ¹H NMR Spectrum of 10f

Figure S52. ¹³C NMR Spectrum of **10f**

Current Data Parameters
 NAME INN-SN-37--1H-COSY
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190107
 Time_ 5.25
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG cosygpgf
 TD 2048
 SOLVENT CDCl3
 NS 32
 DS 4
 SWH 2195.550 Hz
 FIDRES 1.072046 Hz
 AQ 0.4663979 sec
 RG 64
 DW 227.733 usec
 DE 6.50 usec
 TE 294.6 K
 D0 0.00000300 sec
 D1 1.00000000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00045545 sec

===== CHANNEL f1 =====
 NUC1 1H
 P0 13.50 usec
 P1 13.50 usec
 PL1 -1.00 dB
 PL1W 10.56200695 W
 SFO1 400.1323018 MHz

===== GRADIENT CHANNEL =====
 GPNAM[1] SINE.100
 GPZ1 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 512
 SFO1 400.1323 MHz
 FIDRES 8.576429 Hz
 SW 5.487 ppm
 FnmODE QF

F2 - Processing parameters
 SI 1024
 SF 400.1300099 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 400.1300099 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0

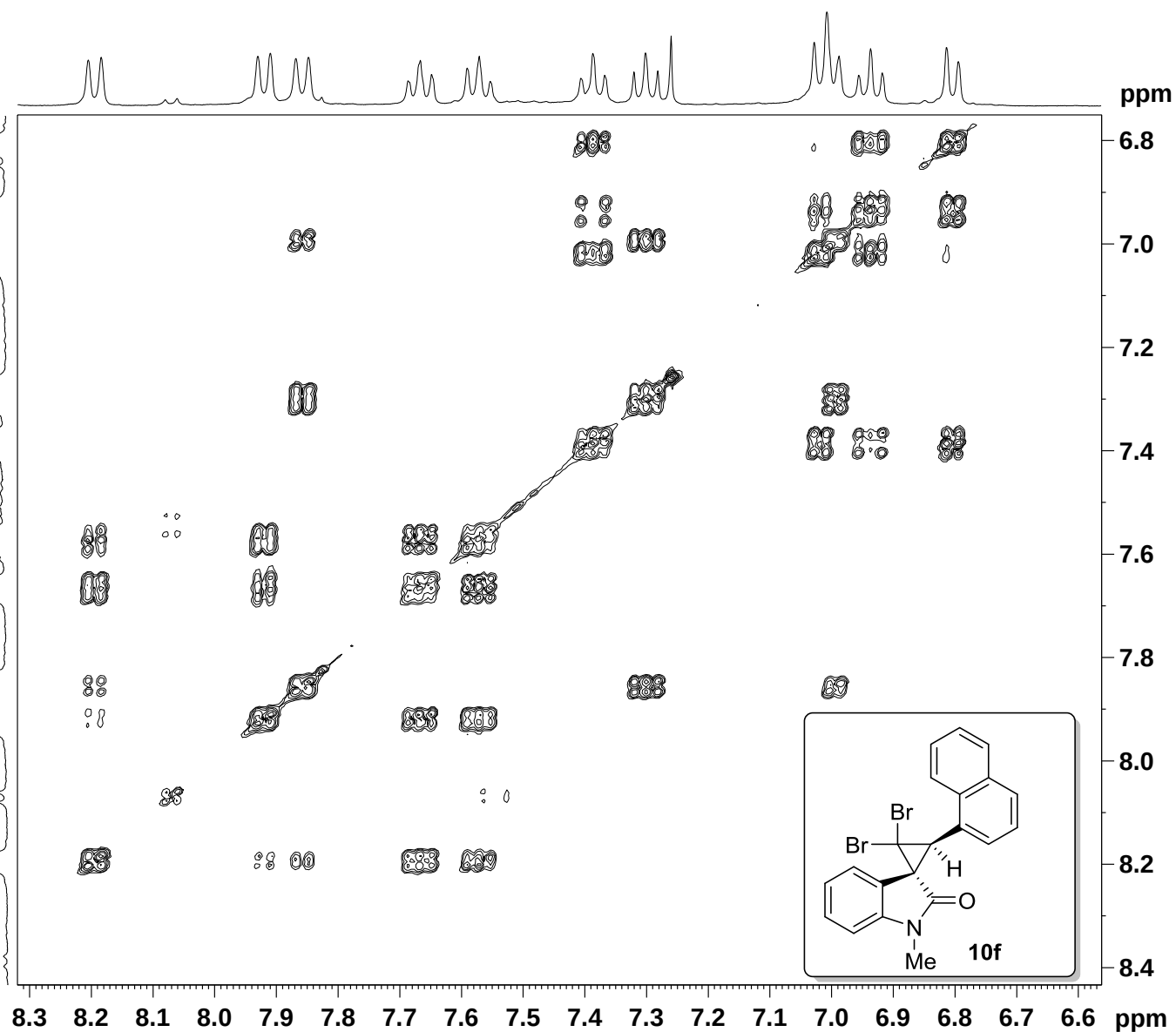


Figure S53. ^1H - ^1H COSY NMR Spectrum of 10f

Current Data Parameters
NAME INN-NSS-SN-15-1H
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190306
Time_ 3.46
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 54274
SOLVENT CDCl3
NS 25
DS 0
SWH 8223.685 Hz
FIDRES 0.151522 Hz
AQ 3.2998593 sec
RG 161
DW 60.800 usec
DE 6.50 usec
TE 300.5 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PL1 -1.00 dB
PL1W 10.56200695 W
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300095 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

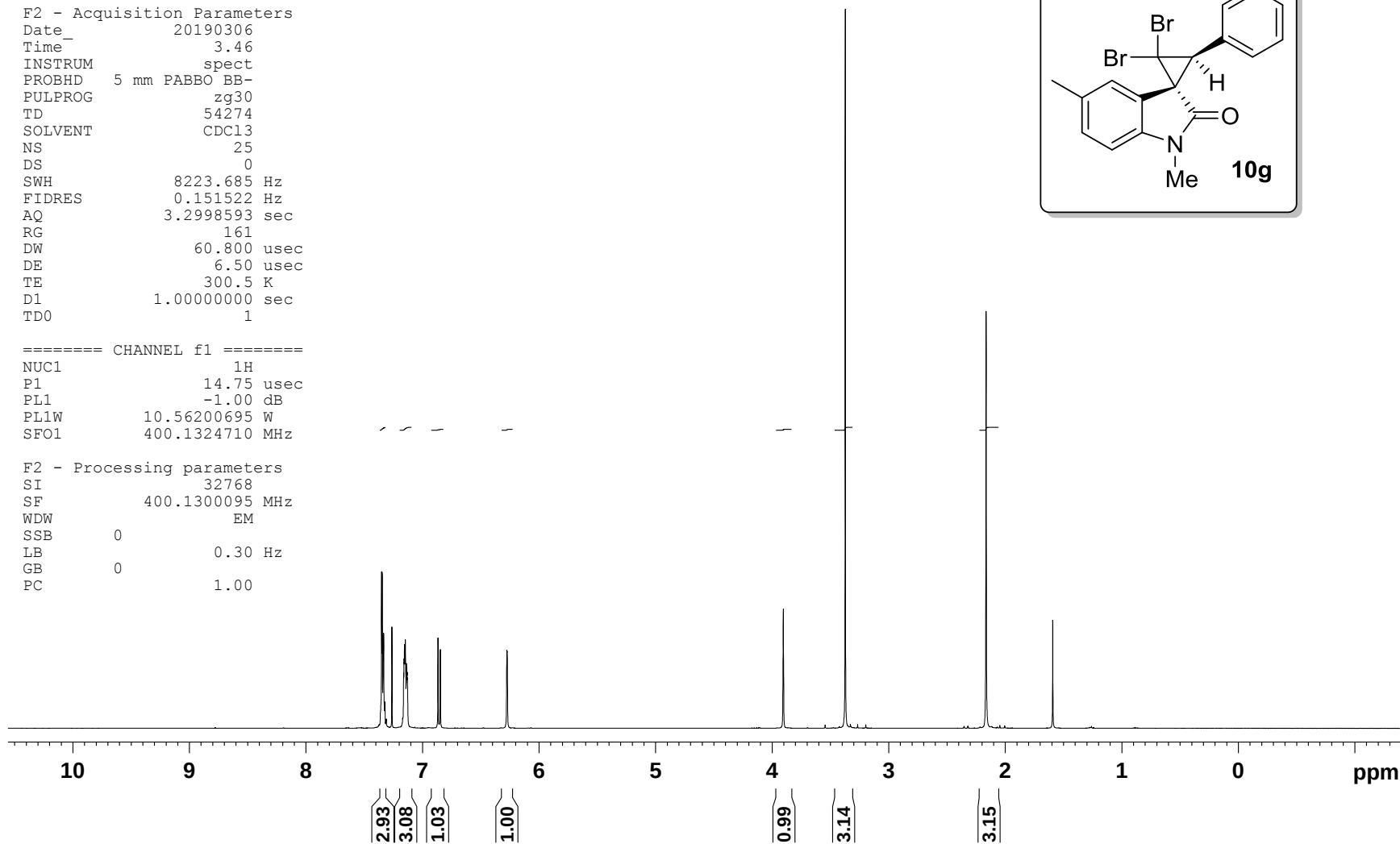
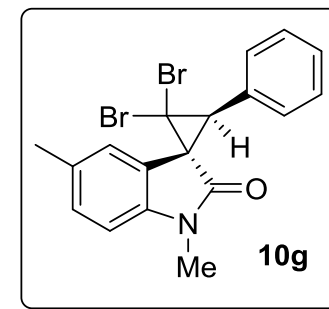
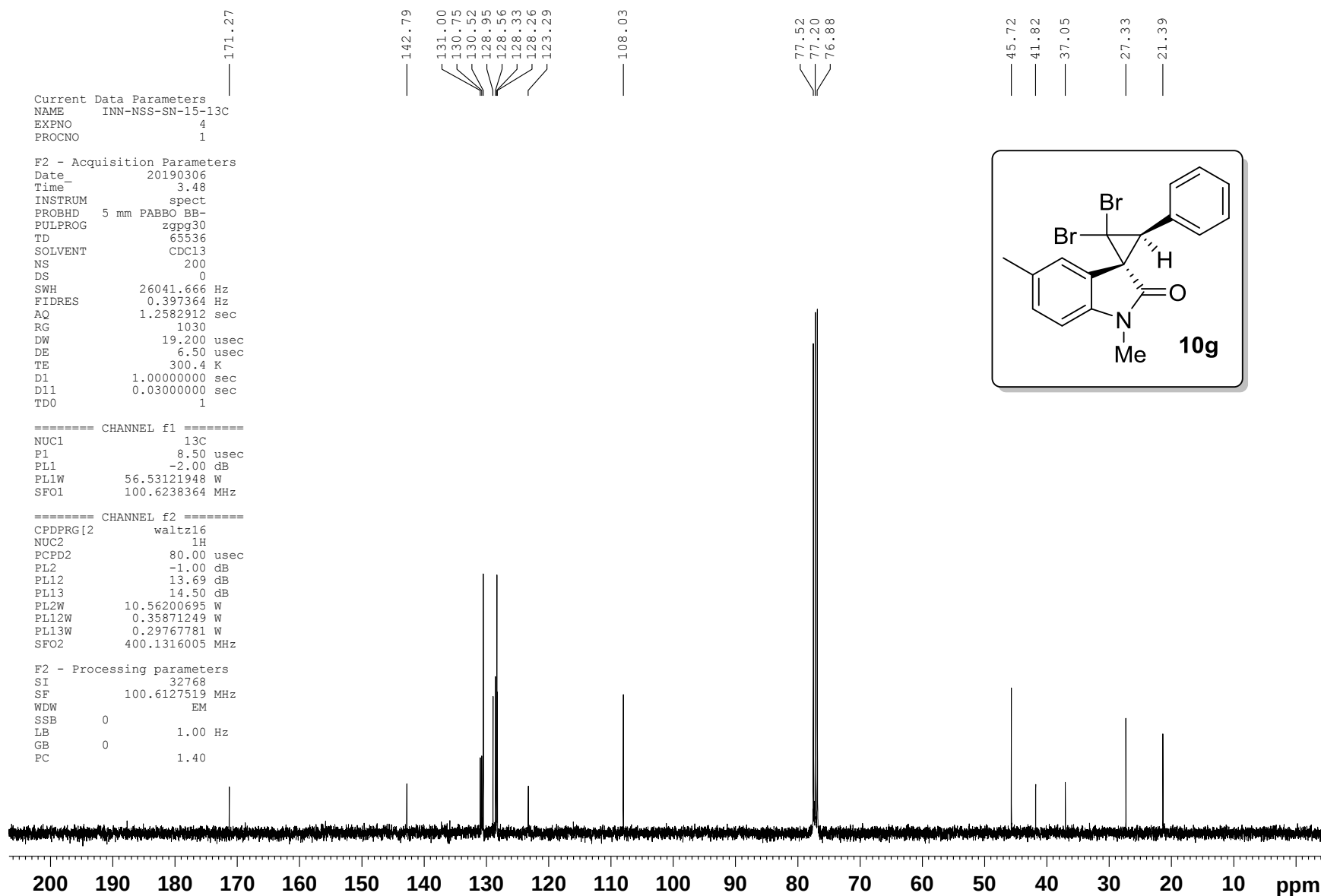


Figure S54. ¹H NMR Spectrum of 10g



Current Data Parameters
NAME INN-NSS-SN-16-1H
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190826
Time_ 1.24
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 54274
SOLVENT CDC13
NS 12
DS 0
SWH 8223.685 Hz
FIDRES 0.151522 Hz
AQ 3.2998593 sec
RG 161
DW 60.800 usec
DE 6.50 usec
TE 296.3 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PL1 -1.00 dB
PL1W 10.56200695 W
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300107 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

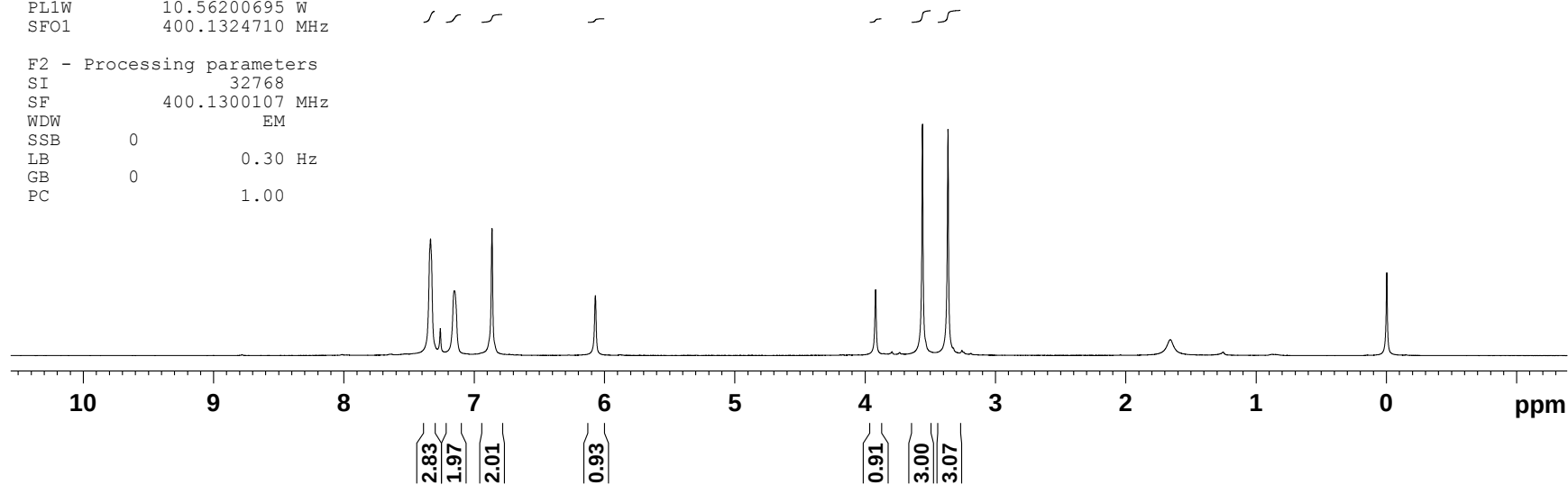
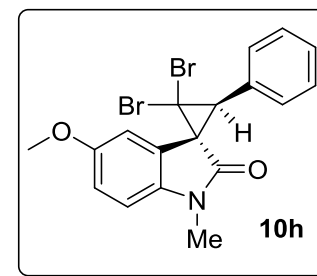
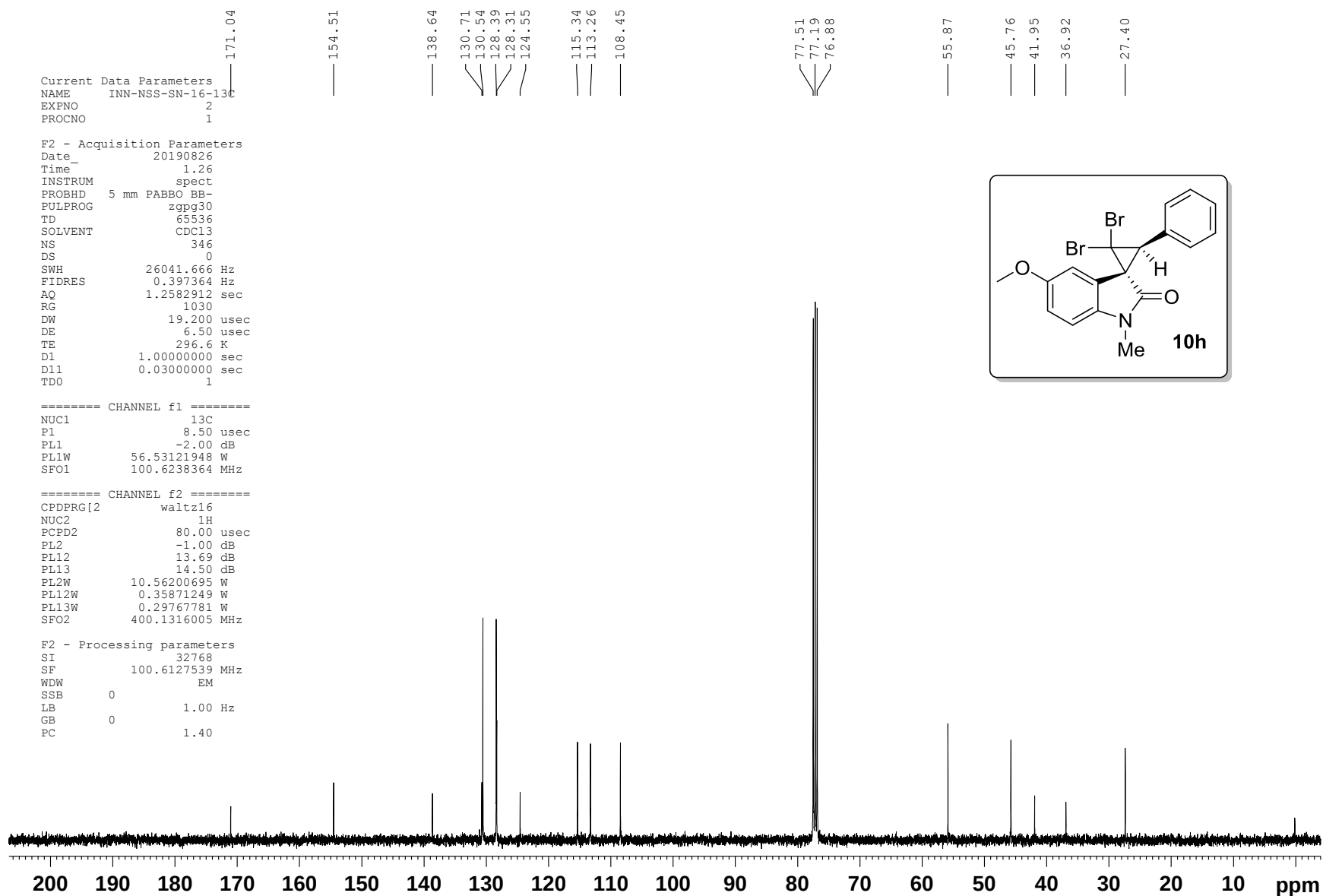


Figure S56. ¹H NMR Spectrum of 10h

Figure S57. ¹³C NMR Spectrum of 10h

```

F2 - Acquisition Parameters
Date_                20190826
Time                 1.38
INSTRUM              spect
PROBHD               5 mm PABBO BB-
PULPROG              jmod
TD                   65536
SOLVENT              CDCl3
NS                    512
DS                     0
SWH                  24038.461 Hz
FIDRES               0.366798 Hz
AQ                   1.3631488 sec
RG                     2050
DW                   20.800 usec
DE                     6.50
TE                   297.3 K
CNST2                145.0000000
CNST11              1.0000000
D1                   1.00000000 sec
D20                  0.00689655 sec
TD0                   1

```

```
===== CHANNEL f1 =====
NUC1                13C
P1                   8.50  usec
P2                  17.00  usec
PL1                  -2.00  dB
PL1W                 56.53121948 W
SFO1                 100.6228298 MHz
```

```

===== CHANNEL f2 =====
CPDPRG[2          waltz16
NUC2              1H
PCPD2             80.00 usec
PL2               -1.00 dB
PL12              13.69 dB
PL2W              10.56200695 W
PL12W             0.35871249 W
SFO2              400.1316005 MHz

```

SF	100.6127530	MHz
WDW		EM
SSB	0	
LB		1.00 Hz
GB	0	
PC		1.40

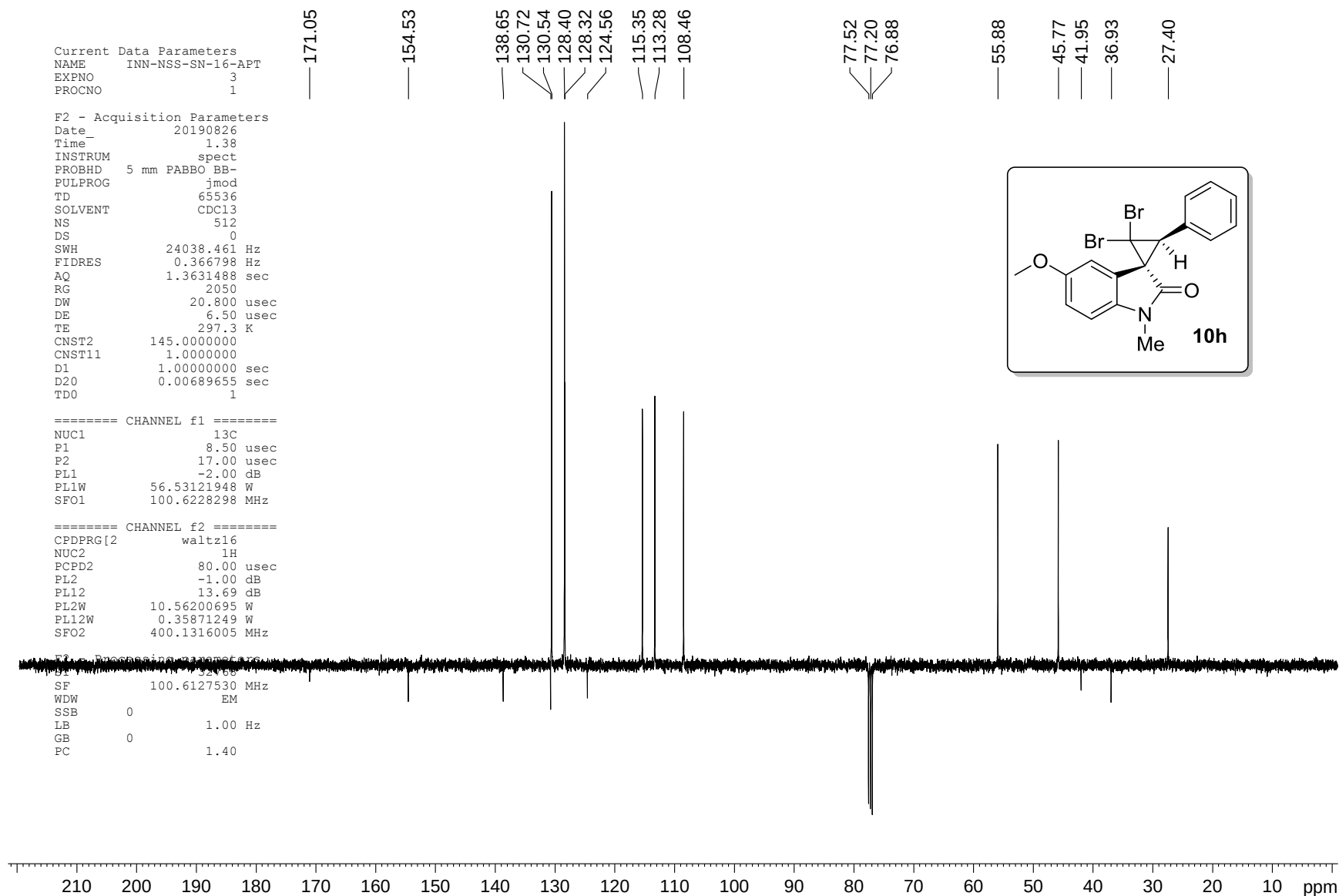
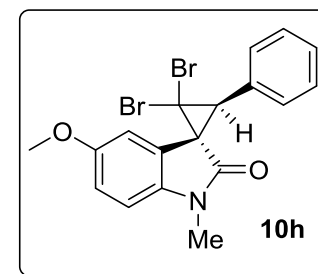


Figure S58. ^{13}C -APT NMR Spectrum of 10h

Current Data Parameters
NAME INN-NSS-SN-14-1H
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190305
Time_ 19.03
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 54274
SOLVENT CDCl3
NS 19
DS 0
SWH 8223.685 Hz
FIDRES 0.151522 Hz
AQ 3.2998593 sec
RG 161
DW 60.800 usec
DE 6.50 usec
TE 300.6 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PL1 -1.00 dB
PL1W 10.56200695 W
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300100 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

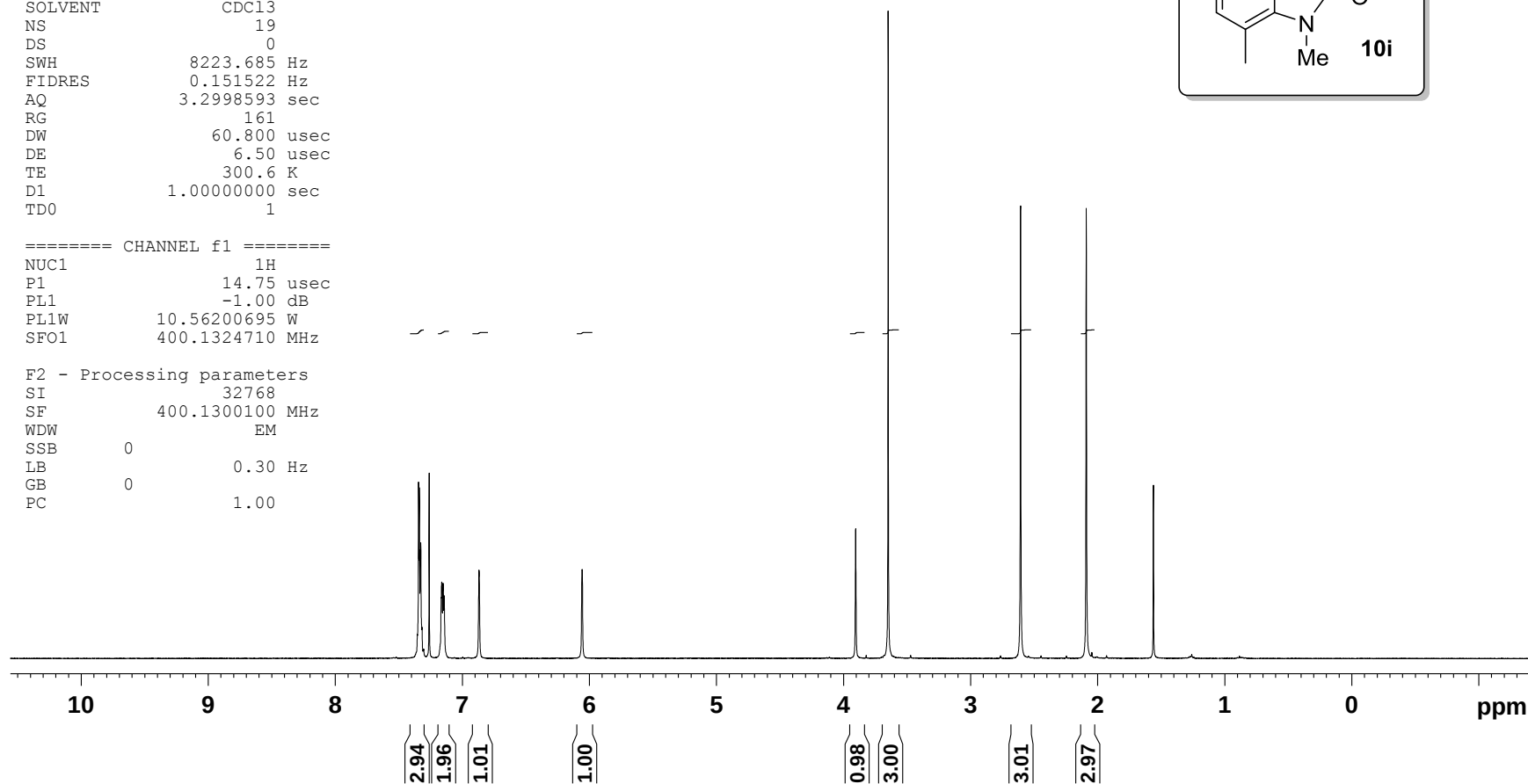
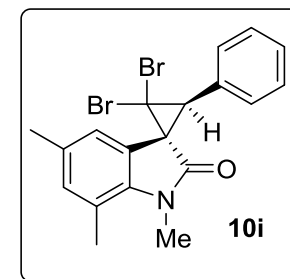
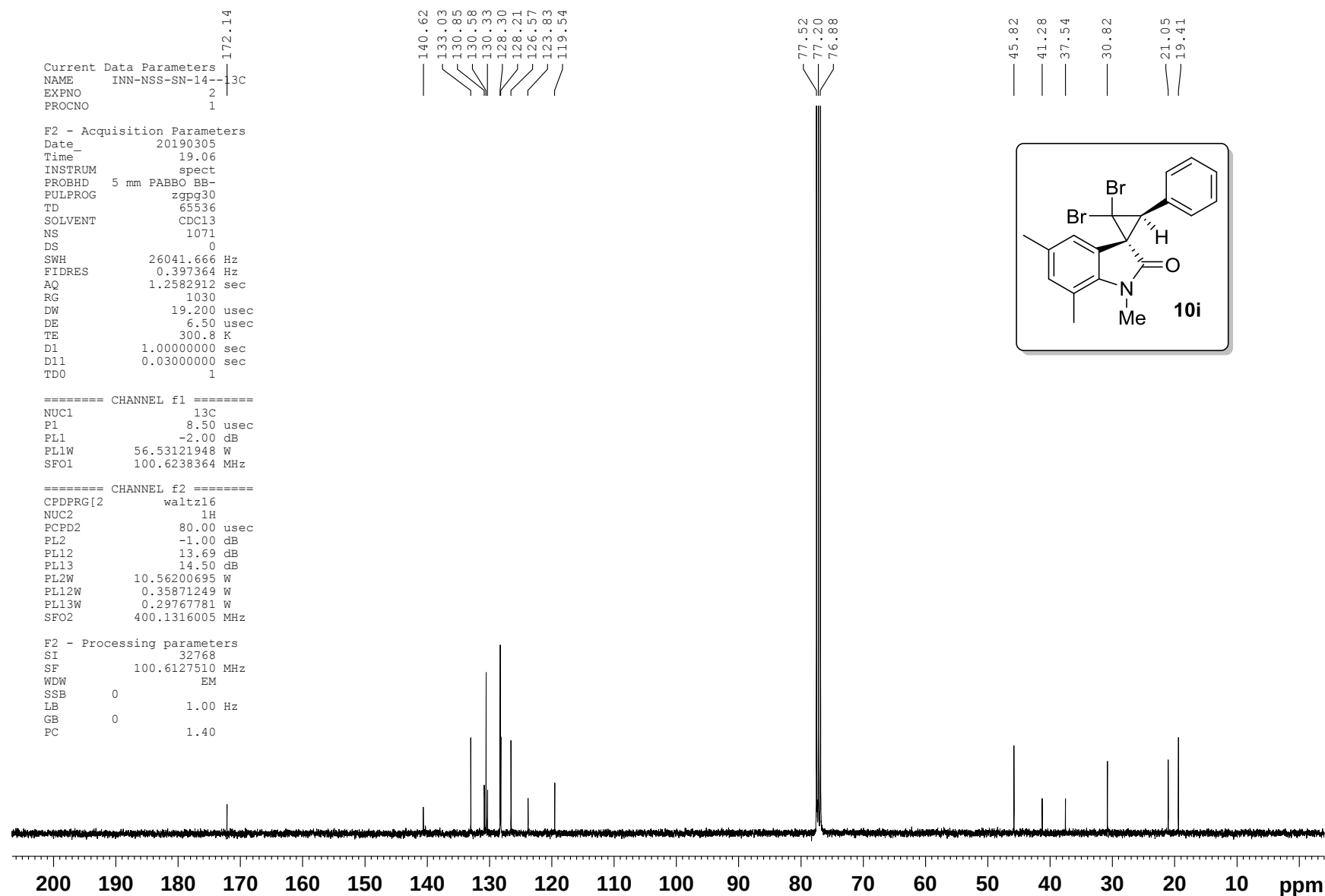


Figure S59. ¹H NMR Spectrum of 10i

Figure S60. ¹³C NMR Spectrum of 10i

Current Data Parameters
NAME INN-SN-16-1H
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150826
Time_ 13.57
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 54274
SOLVENT CDC13
NS 13
DS 0
SWH 8223.685 Hz
FIDRES 0.151522 Hz
AQ 3.2998593 sec
RG 32
DW 60.800 usec
DE 6.50 usec
TE 297.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PL1 -1.00 dB
PL1W 10.56200695 W
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

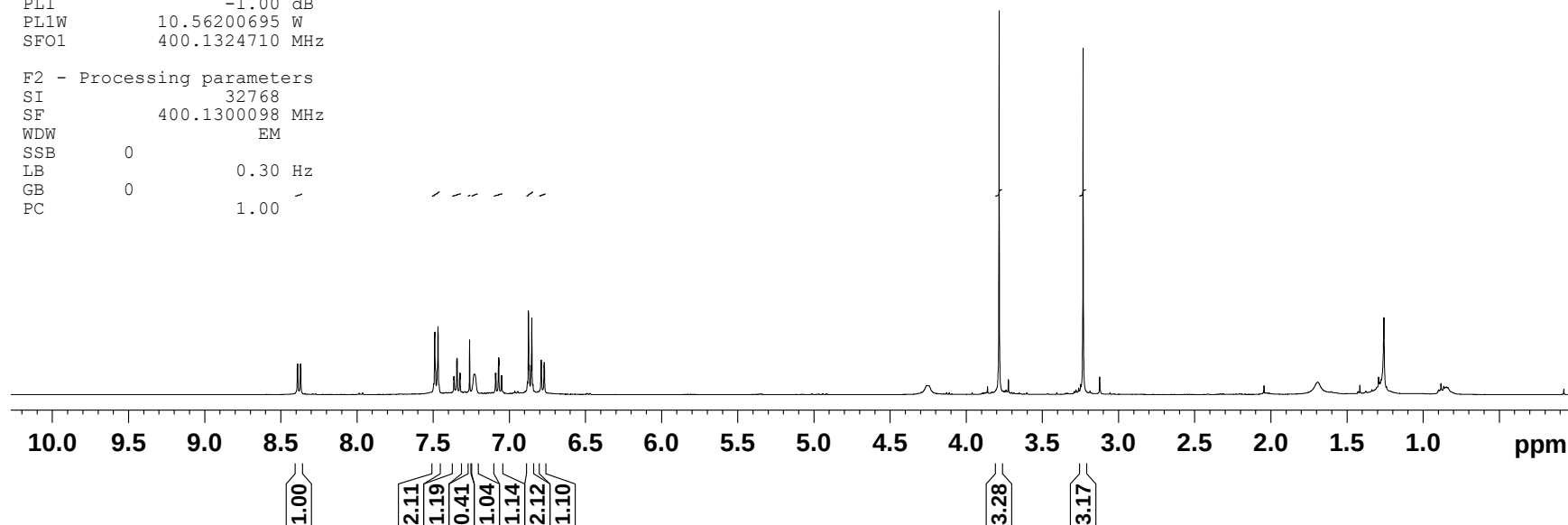
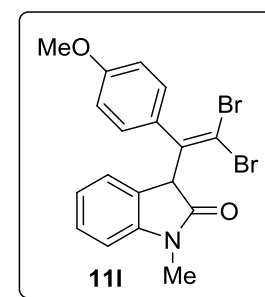
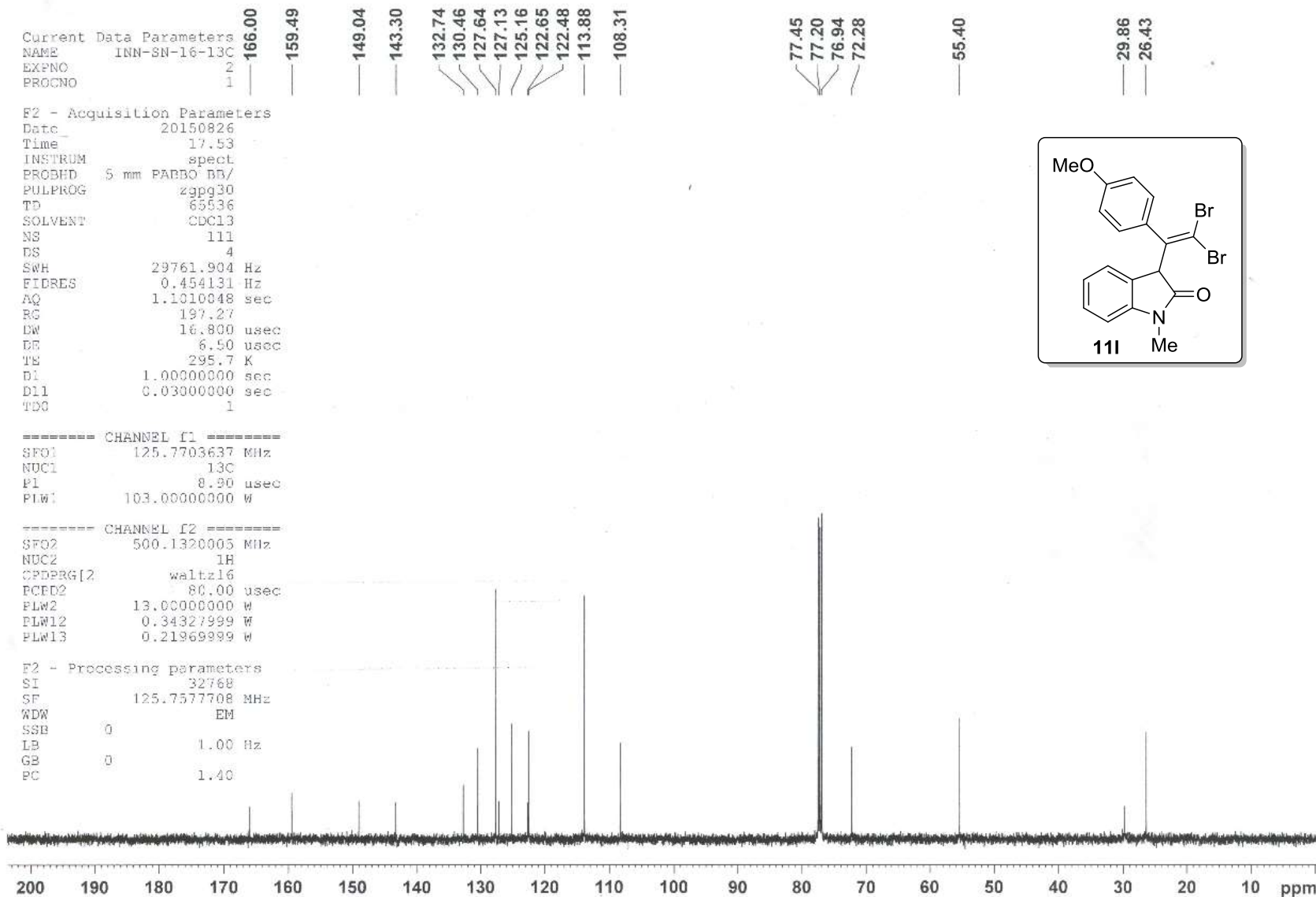


Figure S61. ¹H NMR Spectrum of 11l

Figure S62. ¹³C NMR Spectrum of 11l

Current Data Parameters
 NAME INN-SN-25-1H
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20160204
 Time_ 17.05
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 20
 DS 2
 SWH 10000.000 Hz
 FIDRES 0.152588 Hz
 AQ 3.2767999 sec
 RG 53.37
 DW 50.000 usec
 DE 6.50 usec
 TE 295.5 K
 D1 1.00000000 sec
 TD0 1

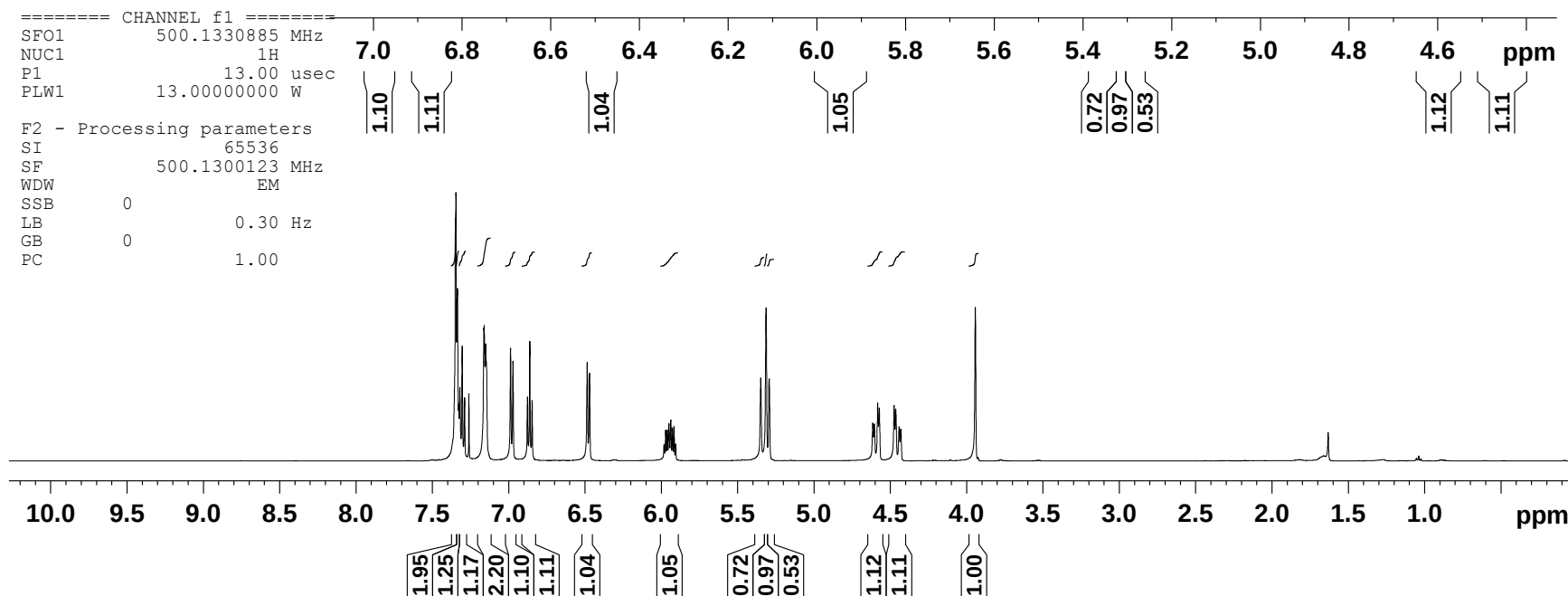
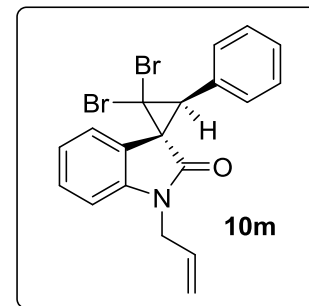
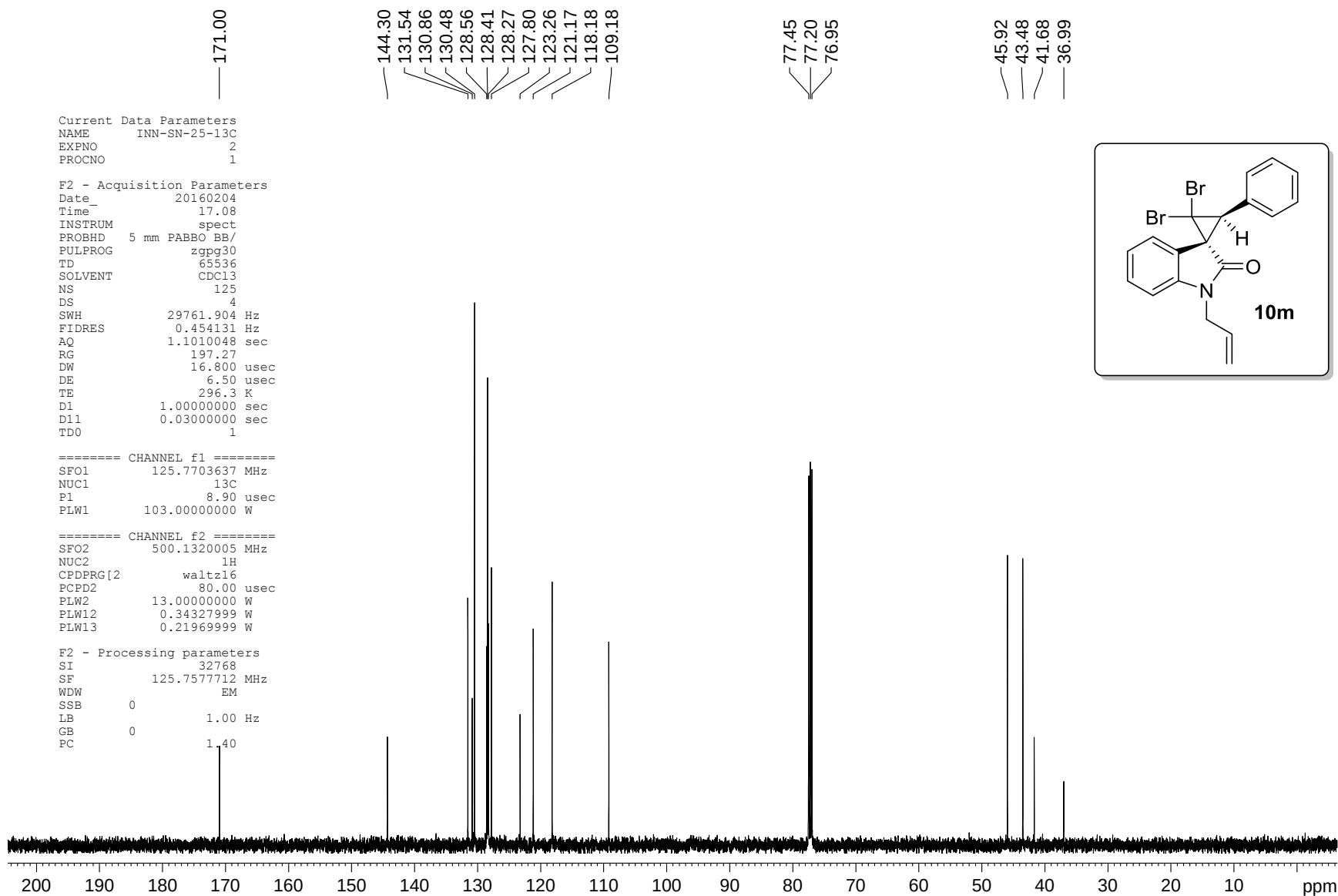


Figure S63. ^1H NMR Spectrum of 10m



Current Data Parameters
NAME INN-SN-28-1H
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160210
Time_ 4.33
INSTRUM spect
PROBHD 5 mm SEI 1H/D-
PULPROG zg30
TD 54274
SOLVENT CDC13
NS 11
DS 0
SWH 8223.685 Hz
FIDRES 0.151522 Hz
AQ 3.2998593 sec
RG 80.6
DW 60.800 usec
DE 6.50 usec
TE 295.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 6.75 usec
PL1 -3.00 dB
PL1W 16.73965454 W
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300103 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

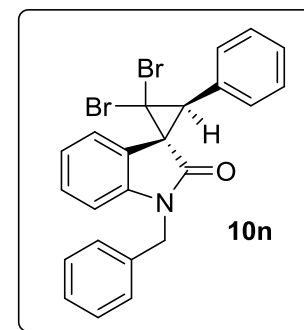
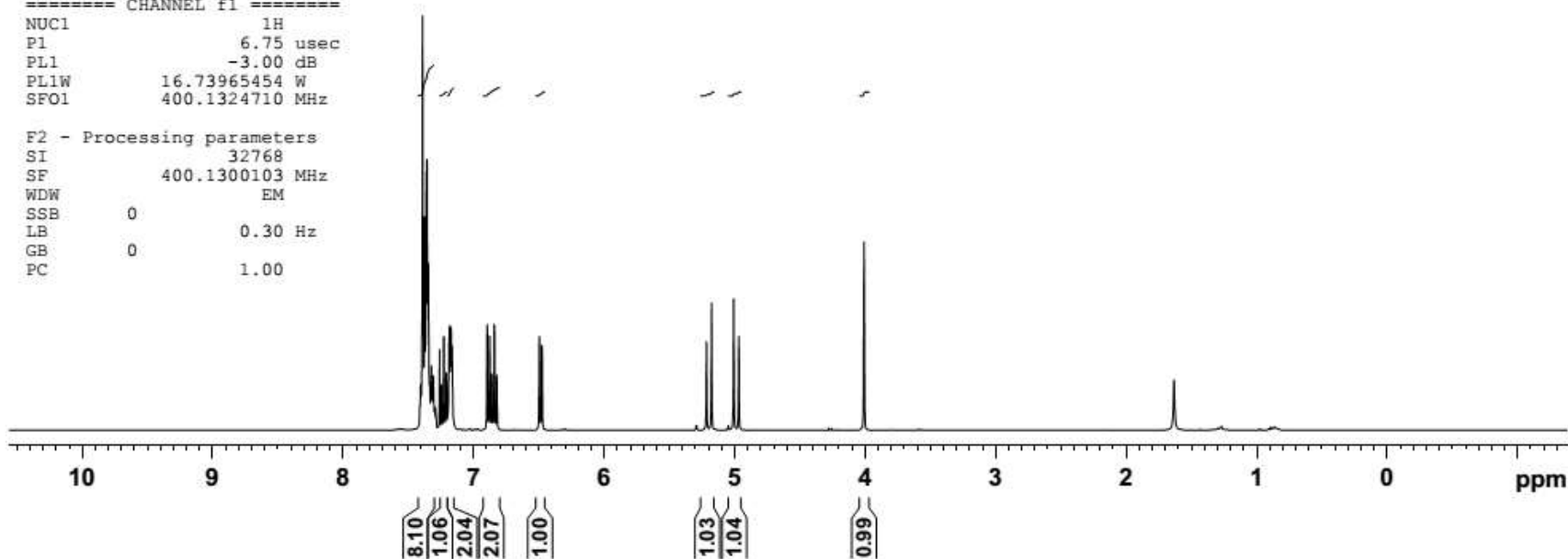
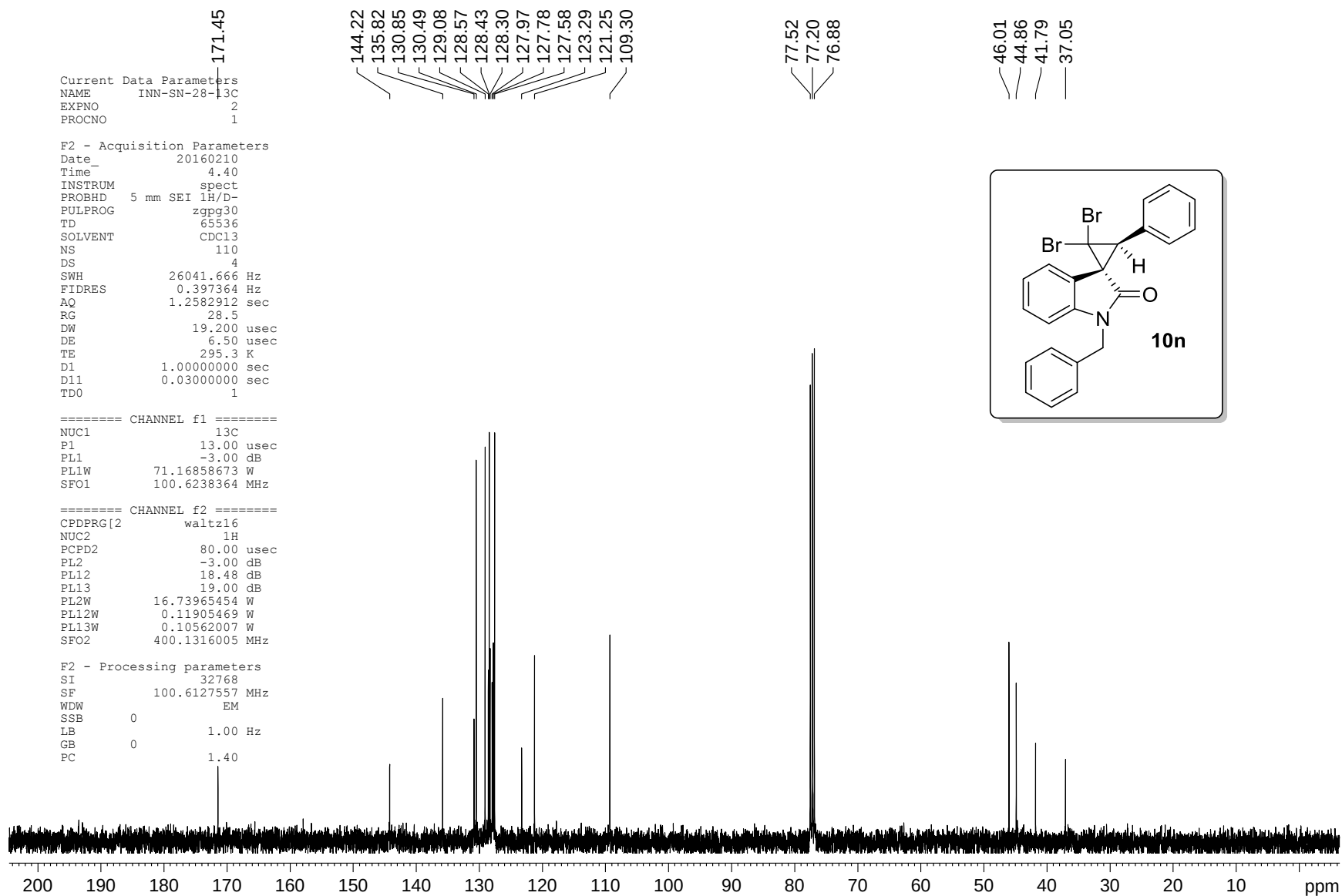


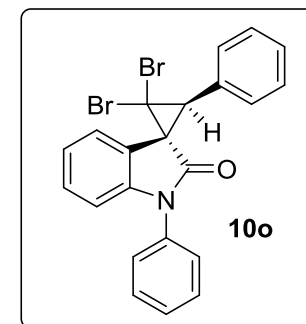
Figure S65. ^1H NMR Spectrum of 10n



Current Data Parameters
 NAME inn-sn-39-1h
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters

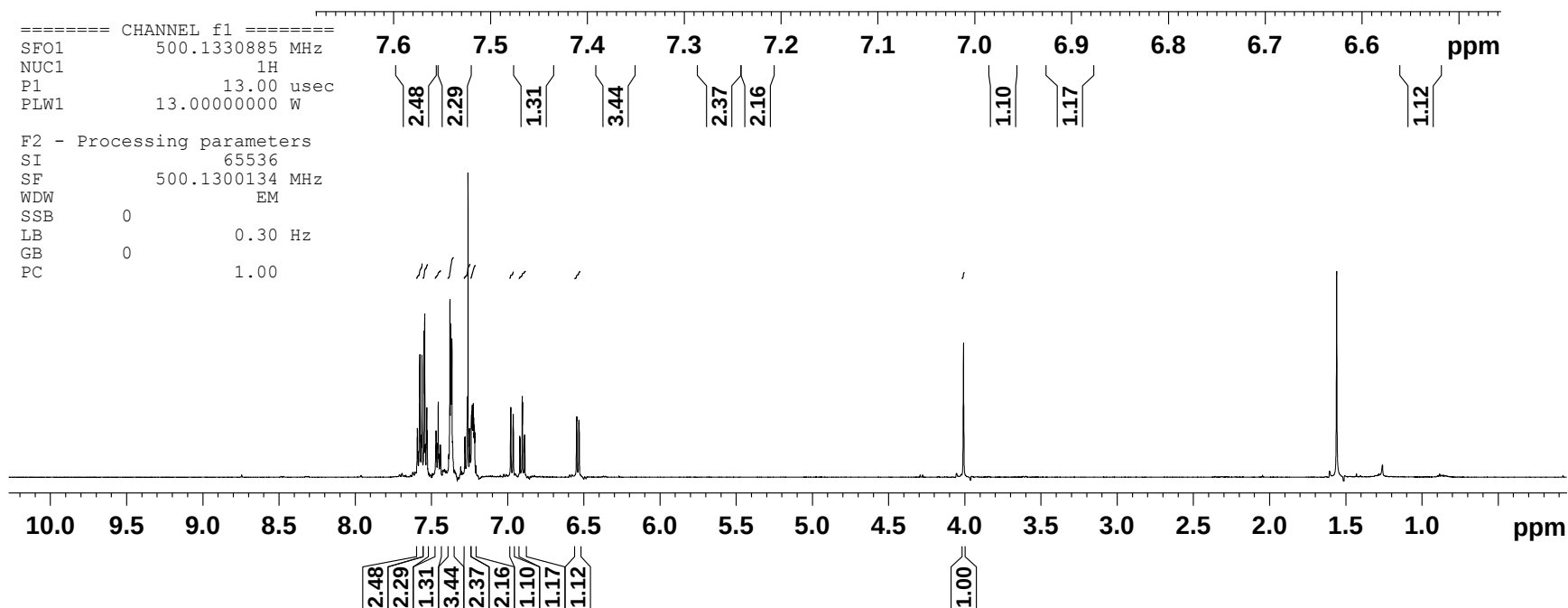
Date_ 20160527
 Time_ 23.28
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 7
 DS 2
 SWH 10000.000 Hz
 FIDRES 0.152588 Hz
 AQ 3.2767999 sec
 RG 85.91
 DW 50.000 usec
 DE 6.50 usec
 TE 299.3 K
 D1 1.00000000 sec
 TD0 1



===== CHANNEL f1 =====
 SFO1 500.1330885 MHz
 NUC1 1H
 P1 13.00 usec
 PLW1 13.00000000 W

F2 - Processing parameters

SI 65536
 SF 500.1300134 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Figure S67. ¹H NMR Spectrum of 10o

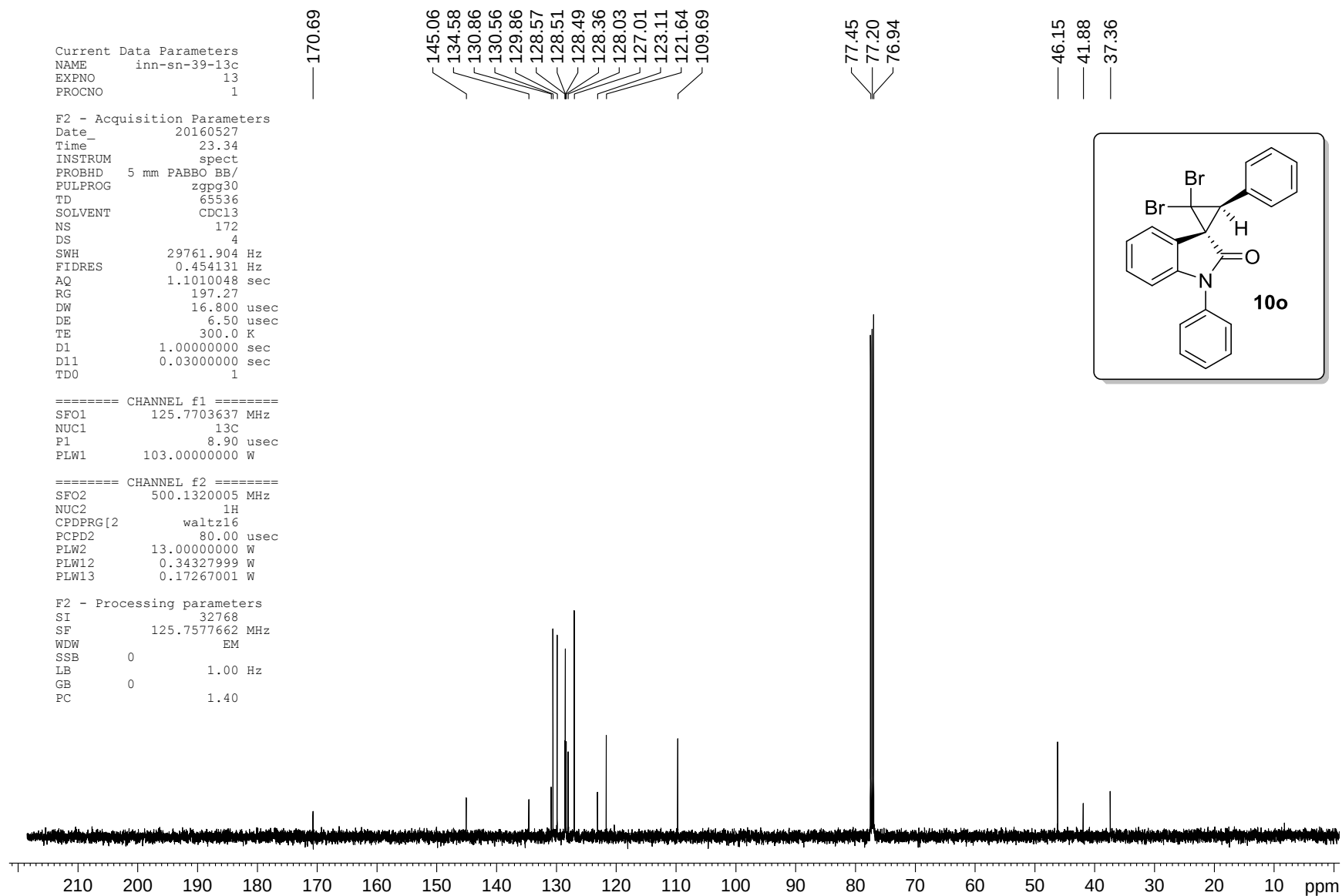
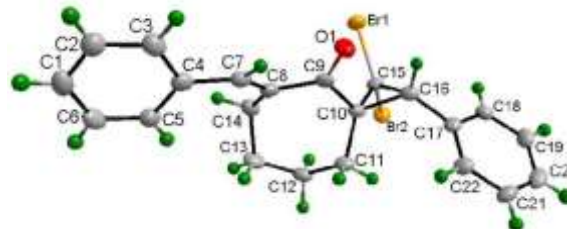
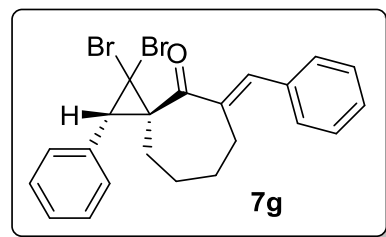


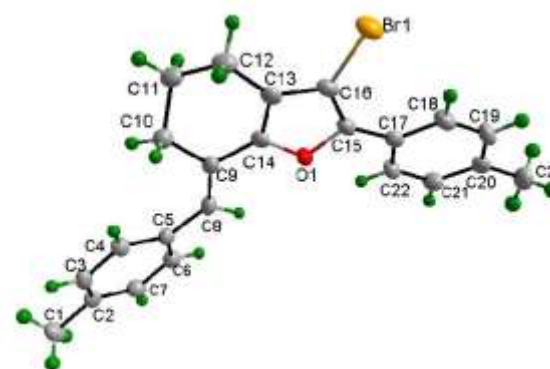
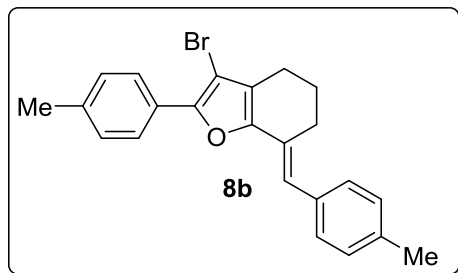
Table 1. Crystal data and structure refinement for compound 7g



Identification code	inn-nss-7g
Empirical formula	C ₂₂ H ₂₀ Br ₂ O
Formula weight	460.20
Temperature	293(2) K
Wavelength	0.71073 Å
Crystal system	monoclinic
Space group	P 1 21/c 1
Unit cell dimensions	a = 9.3505(4) Å α = 90°.
	b = 14.6227(6) Å β = 94.177(4)°.
	c = 13.7913(6) Å γ = 90°.
Volume	1880.67(15) Å ³
Z	4
Density (calculated)	1.625 Mg/m ³
Absorption coefficient	4.317 mm ⁻¹
F(000)	920
Crystal size	0.050 x 0.133 x 0.137 mm ³

Theta range for data collection	2.03 to 25.00°.
Index ranges	-11<=h<=10, -17<=k<=16, -16<=l<=14
Reflections collected	7482
Independent reflections	3305 [R(int) = 0.0342]
Completeness to theta = 25.00°	99.7 %
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	3305 / 0 / 226
Goodness-of-fit on F ²	1.297
Final R indices [I>2sigma(I)]	R1 = 0.0368, wR2 = 0.0860
R indices (all data)	R1 = 0.0492, wR2 = 0.0912
Largest diff. peak and hole	0.840 and -0.560 e.Å ⁻³

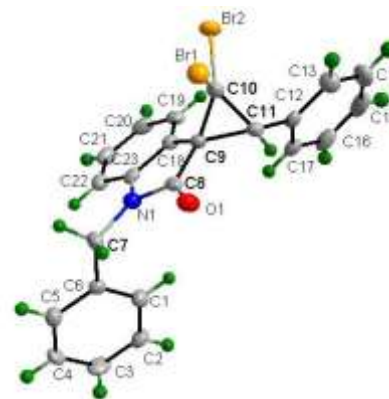
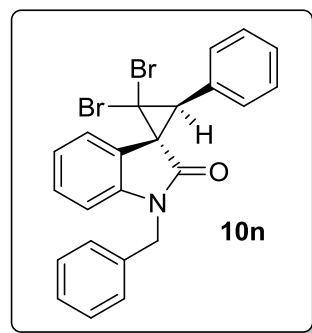
Table 2. Crystal data and structure refinement for compound 8b



Identification code	inn-2-nss-8b
Empirical formula	C ₂₃ H ₂₁ BrO
Formula weight	393.31
Temperature	293(2)
Wavelength	0.71073 Å
Crystal system	monoclinic
Space group	P 1 21/c 1
Unit cell dimensions	a = 5.6626(4) Å α = 90°.
	b = 9.7839(8) Å β = 89.786(6) °.
	c = 32.396(2) Å γ = 90°.
Volume	1794.8(2) Å ³
Z	4
Density (calculated)	1.456 g/cm ³

Absorption coefficient	2.298 mm ⁻¹
F(000)	808.0
Crystal size	0.04 × 0.073 × 0.2 mm ³
Theta range for data collection	4.348 to 49.996 °.
Index ranges	-6 ≤ h ≤ 5, -11 ≤ k ≤ 9, -32 ≤ l ≤ 38
Reflections collected	7151
Independent reflections	3152 [R _{int} = 0.0581]
Completeness to theta = 25.00°	100 %
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	3152/0/228
Goodness-of-fit on F ²	1.031
Final R indices [I>2sigma(I)]	R ₁ = 0.0464, wR ₂ = 0.0918
R indices (all data)	R ₁ = 0.0685, wR ₂ = 0.1026
Largest diff. peak and hole	0.42 and 0.65 e.Å ⁻³

Table 3. Crystal data and structure refinement for compound 10n



Identification code	inn-2-nss-10l
Empirical formula	C ₂₃ H ₁₇ Br ₂ NO
Formula weight	483.20
Temperature	150(2) K
Wavelength	0.71070 Å
Crystal system	monoclinic
Space group	P 21/c
Unit cell dimensions	a = 9.541(3) Å α = 90°.
	b = 16.928(5) Å β = 102.664(4)°.
	c = 12.100(4) Å γ = 90°.
Volume	1906.7(10) Å ³
Z	4

Density (calculated)	1.683 g/cm ³
Absorption coefficient	4.264 mm ⁻¹
F(000)	960
Crystal size	0.55 x 0.38 x 0.17 mm ³
Theta range for data collection	3.25 to 24.99°.
Index ranges	-11 ≤ h ≤ 11, -20 ≤ k ≤ 20, -14 ≤ l ≤ 14
Reflections collected	18722
Independent reflections	3352 [R(int) = 0.0999]
Completeness to theta = 24.99°	99.7 %
Max. and min. transmission	0.5309 and 0.2026
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	3352 / 0 / 244
Goodness-of-fit on F ²	0.941
Final R indices [I > 2sigma(I)]	R1 = 0.0365, wR2 = 0.0815
R indices (all data)	R1 = 0.0450, wR2 = 0.0832