

Supporting Information

Regioselective synthesis of nitrosoimidazoheterocycles using *tert*-butyl nitrite

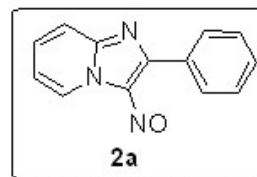
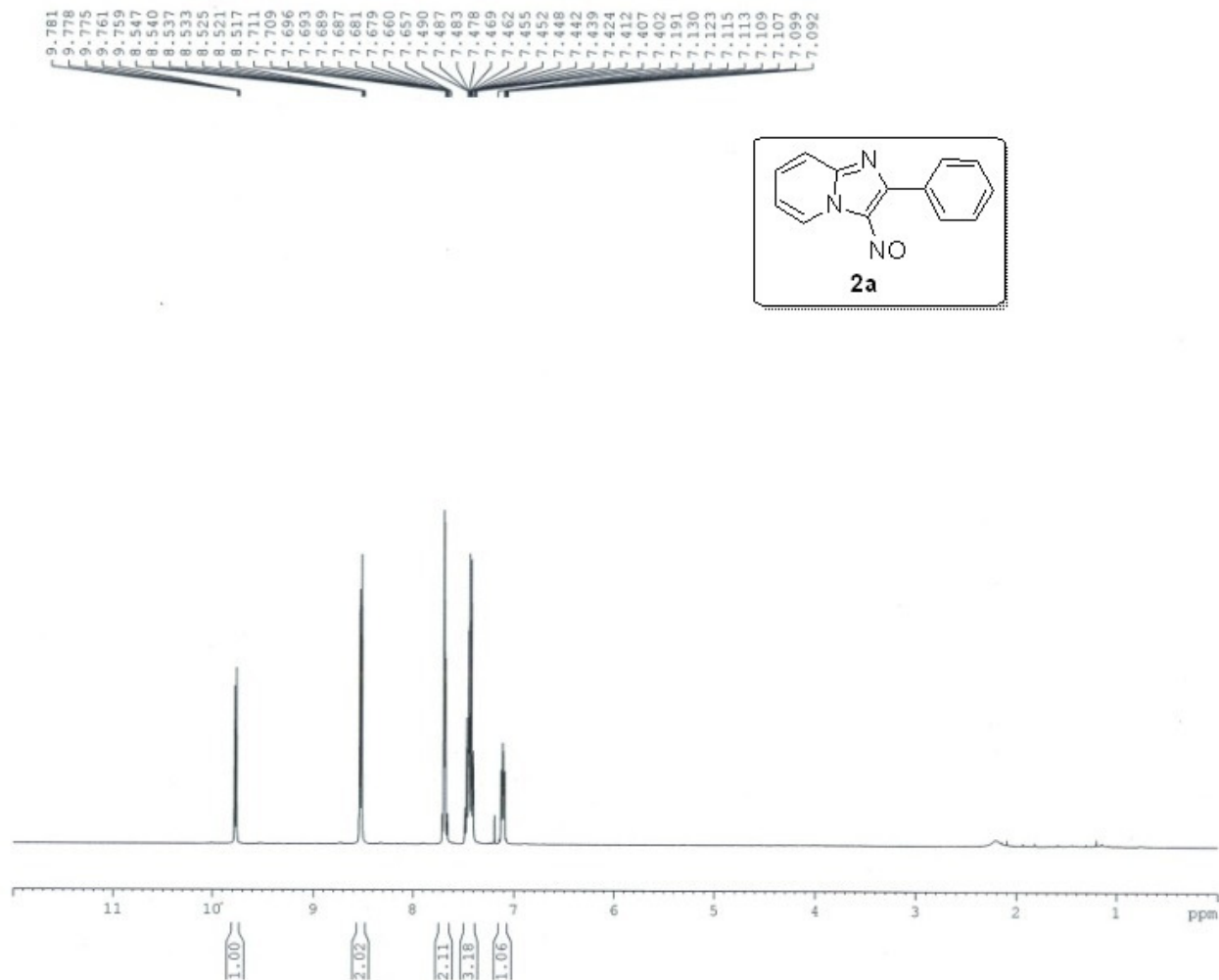
Kamarul Monir, Monoranjan Ghosh, Sourav Jana, Pallab Mondal, Adinath Majee, and
Alakananda Hajra*

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¹ H and ¹³ C NMR Spectra of all compounds	S2-S50

NMR Spectra(s) for the synthesized nitroso derivatives:

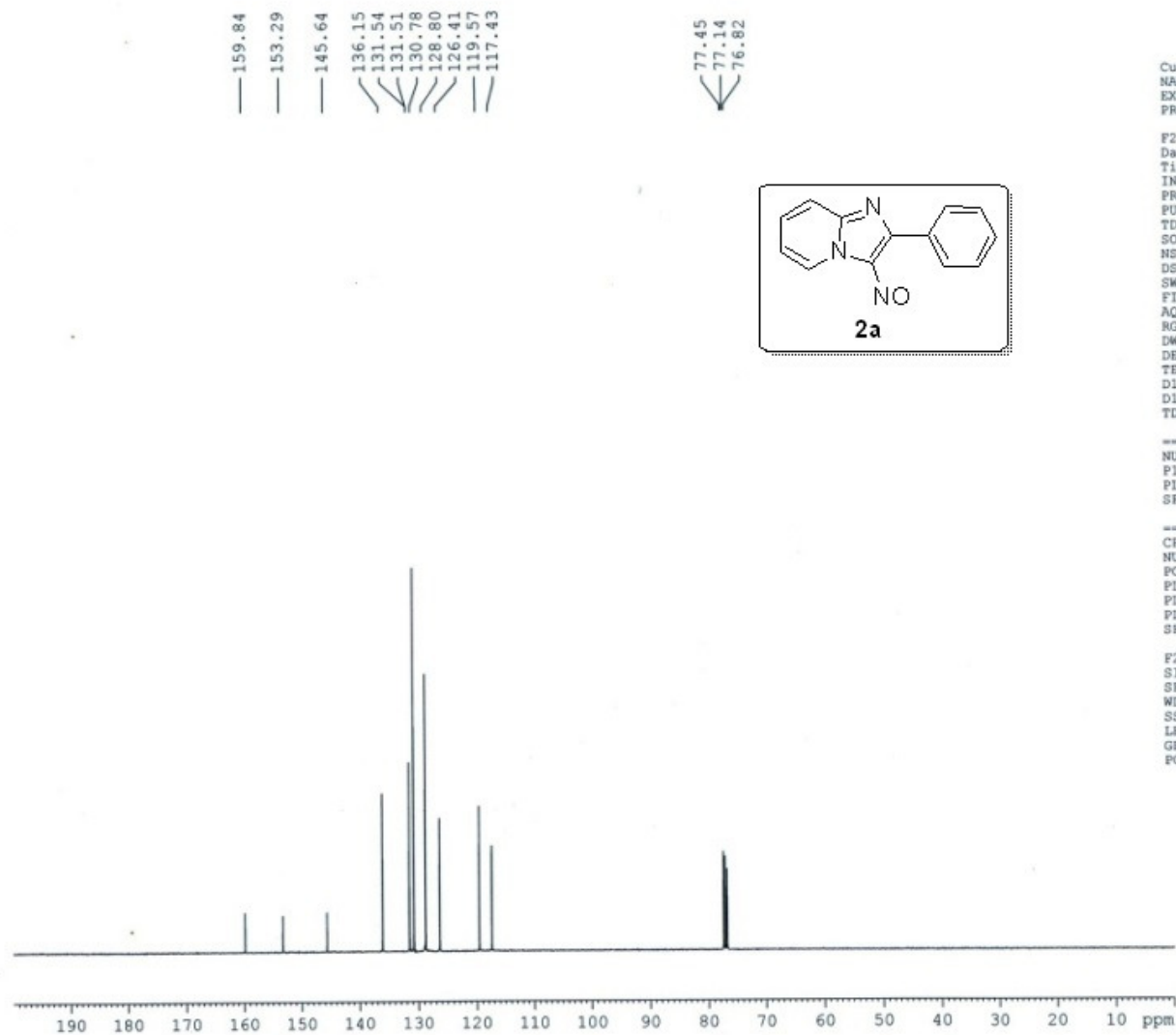


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 SOLVENT CDC13
 NS 24
 DS 2
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 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 47.25
 DW 60.800 usec
 DE 6.50 usec
 TE 295.7 K
 D1 1.00000000 sec
 TD0 1

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 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
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 SF 400.1500361 MHz
 WDW EM
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 GB 0
 PC 1.00



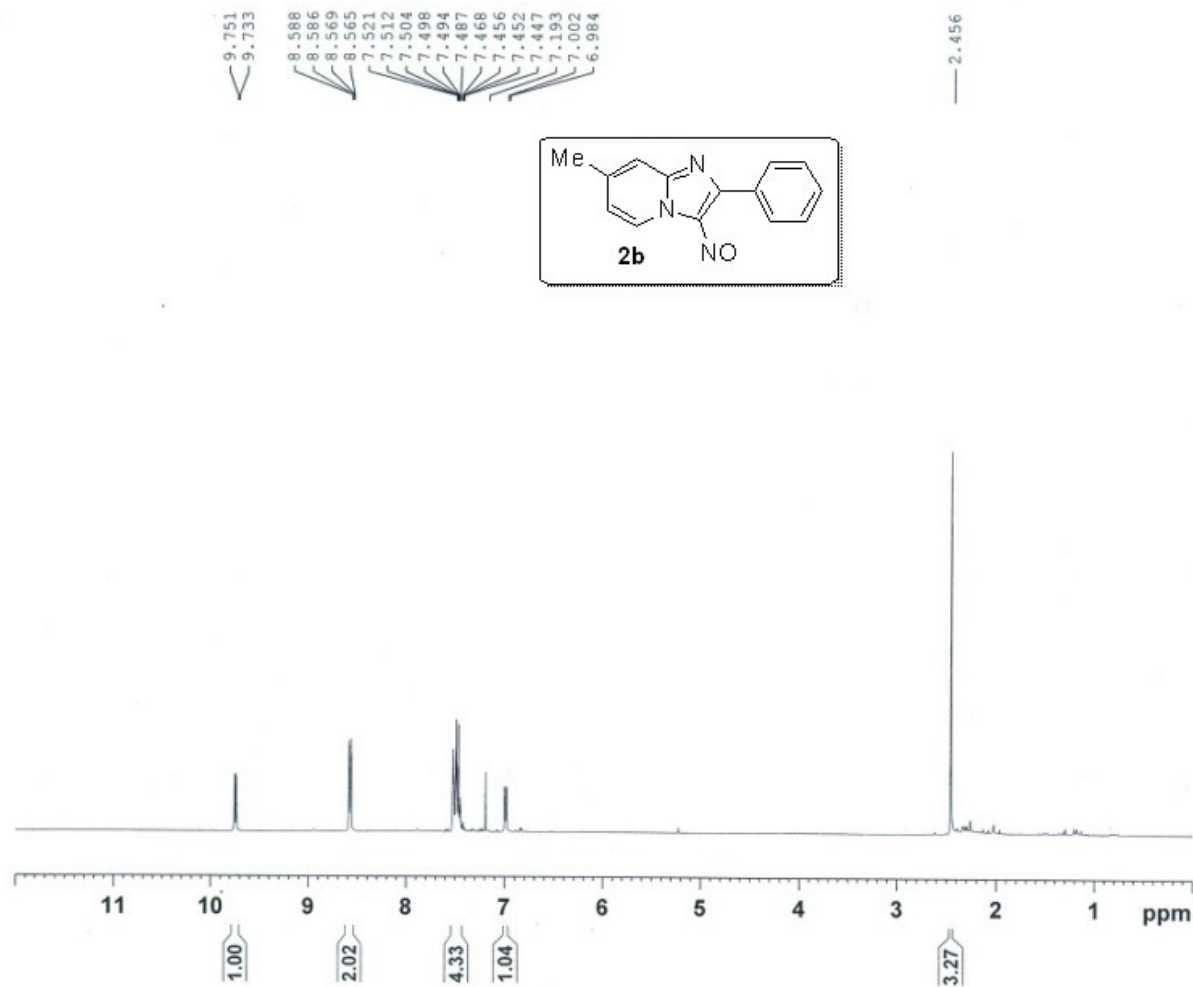
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 NS 512
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 FIDRES 0.733596 Hz
 AQ 0.6816244 sec
 RG 47.25
 DW 20.800 usec
 DE 6.50 usec
 TE 296.8 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

----- CHANNEL f1 -----
 NUC1 13C
 P1 8.90 usec
 PLW1 54.00000000 W
 SFO1 100.6278588 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PLW2 12.00000000 W
 PLW12 0.40792999 W
 PLW13 0.26107001 W
 SFO2 400.1516006 MHz

F2 - Processing parameters
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 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

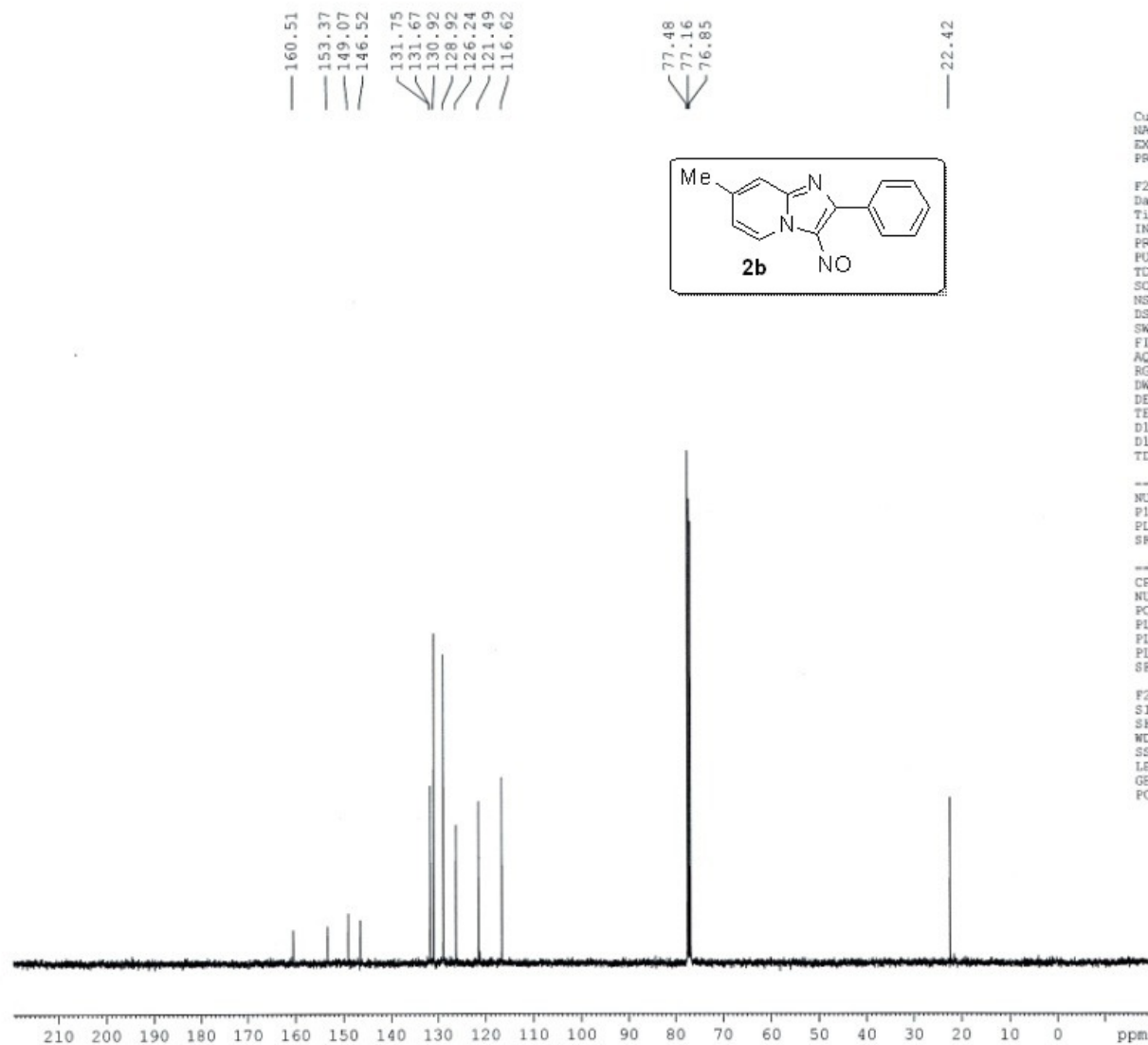


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 PROCNO 1

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 PULPROG zg30
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 SOLVENT CDCl3
 NS 32
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 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 87.66
 DW 60.800 usec
 DE 6.50 usec
 TE 296.3 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
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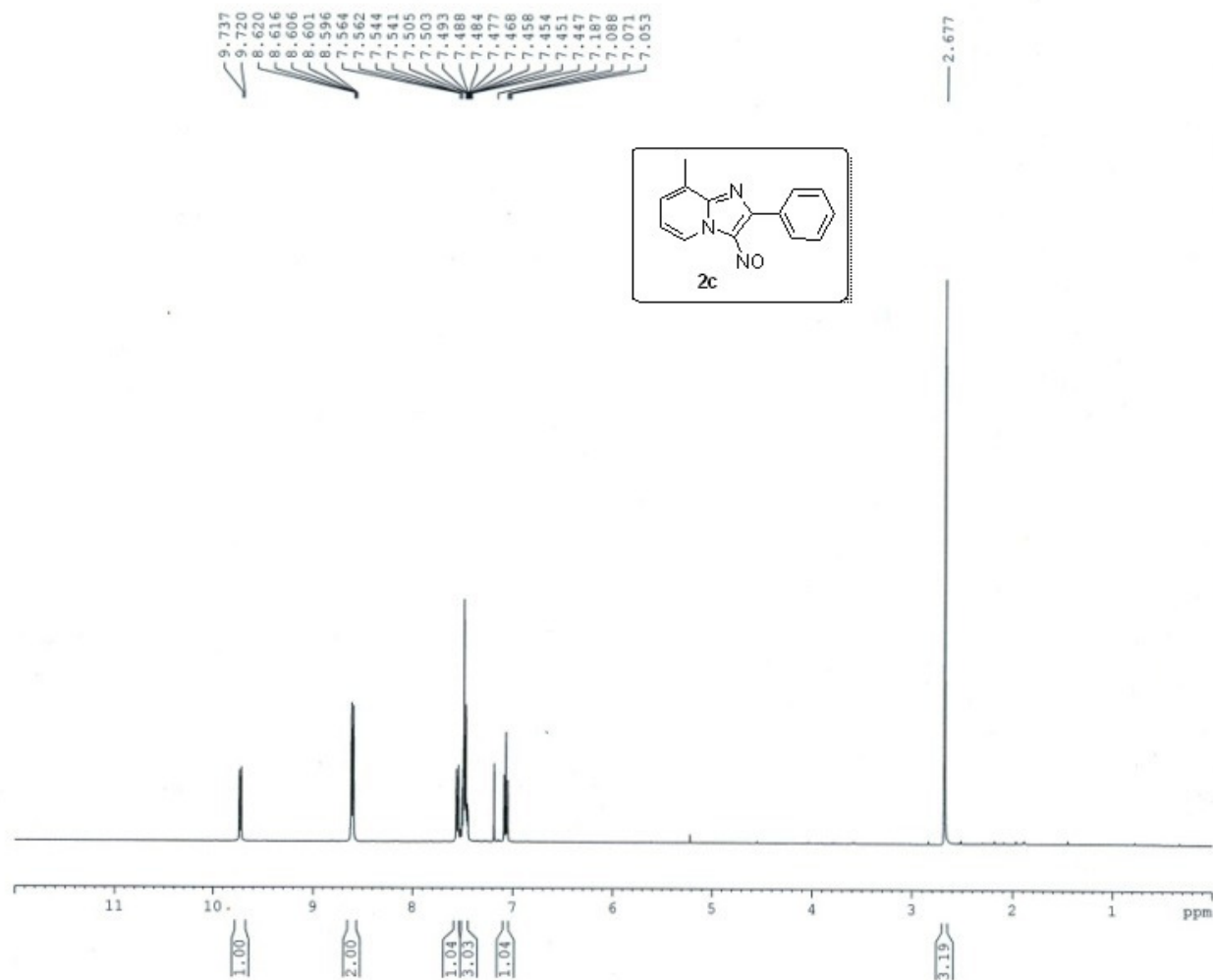
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PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 512
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FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 87.66
DW 20.800 usec
DE 6.50 usec
TE 297.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
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WDW EM
SSB 0
LB 1.00 Hz
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PC 1.40

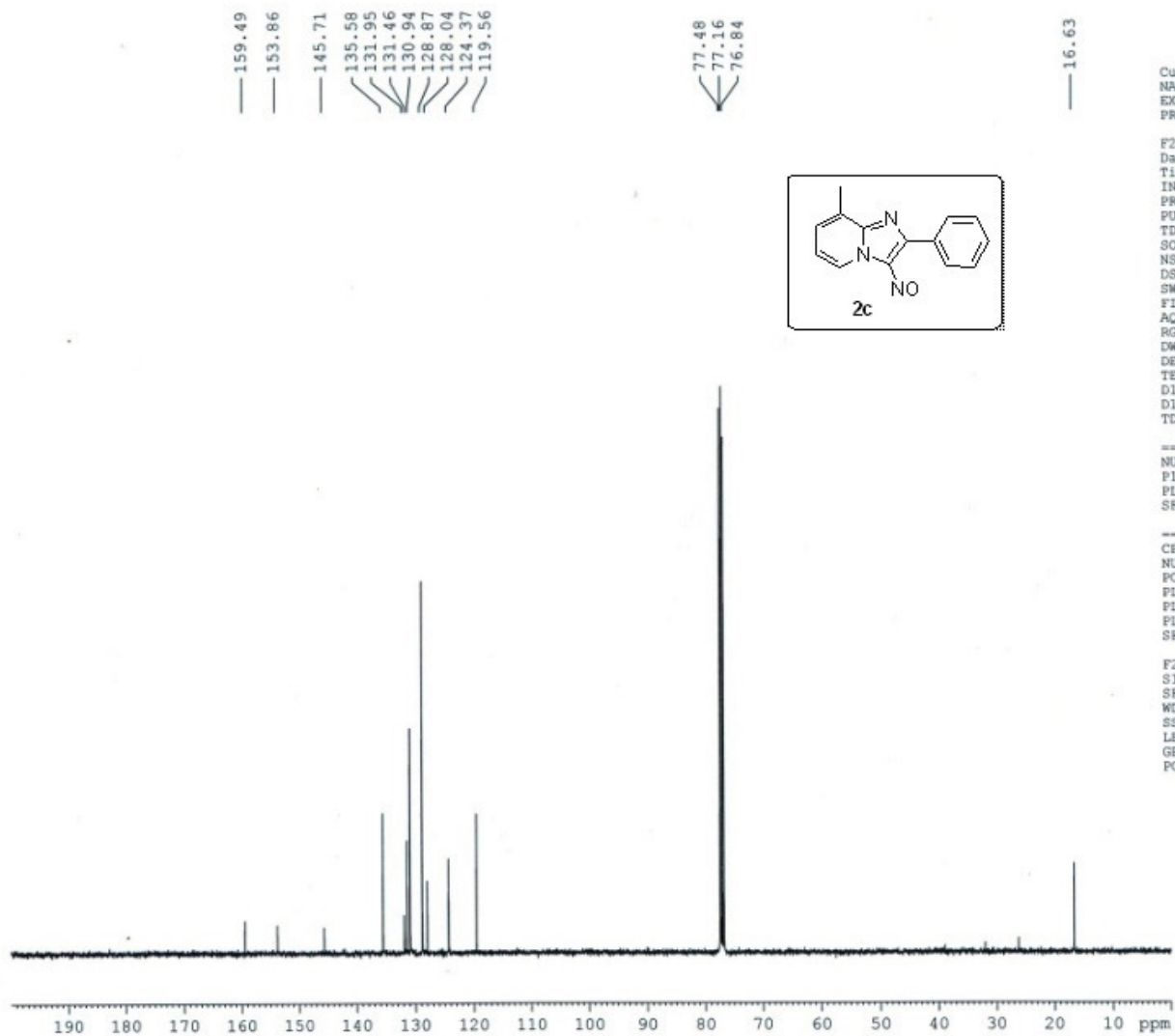


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 PULPROG zg30
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 SOLVENT CDC13
 NS 32
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 DW 60.800 usec
 DE 6.50 usec
 TE 296.6 K
 D1 1.00000000 sec
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===== CHANNEL f1 =====
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500381 MHz
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 SSB 0
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Current Data Parameters
NAME Dr. A RAJRA 2014
EXPNO 543
PROCNO 1

F2 - Acquisition Parameters
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PROBHD 5 mm PABBO BB/
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SOLVENT CDCl3
NS 512
DS 2
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FIDRES 0.733596 Hz
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DW 20.800 usec
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TE 297.6 K
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D11 0.03000000 sec
TD0 1

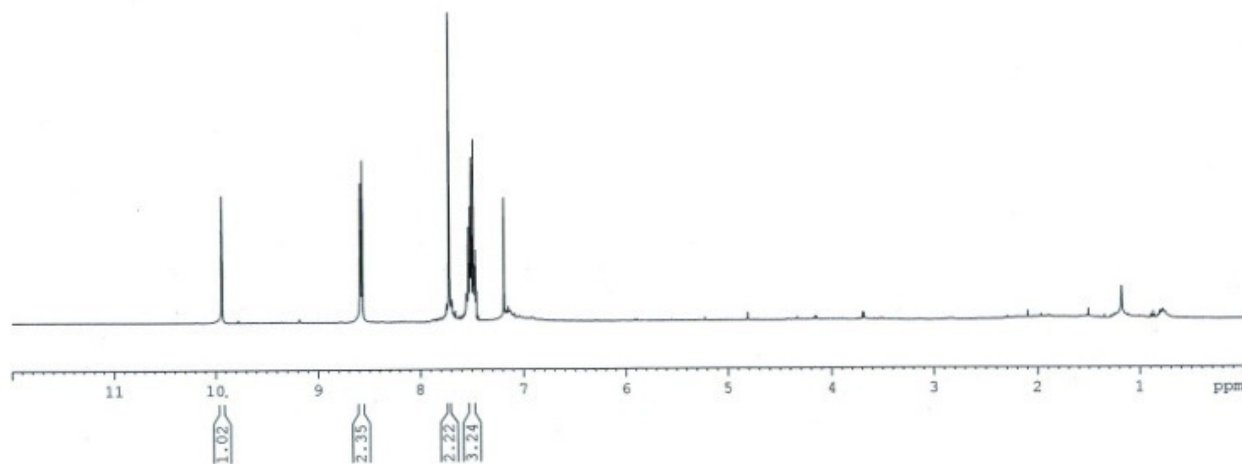
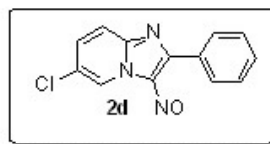
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NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177880 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

9.938
9.935
9.932

8.598
8.591
8.589
8.576
8.572
8.568
7.721
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7.520
7.517
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7.509
7.503
7.500
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7.467
7.189

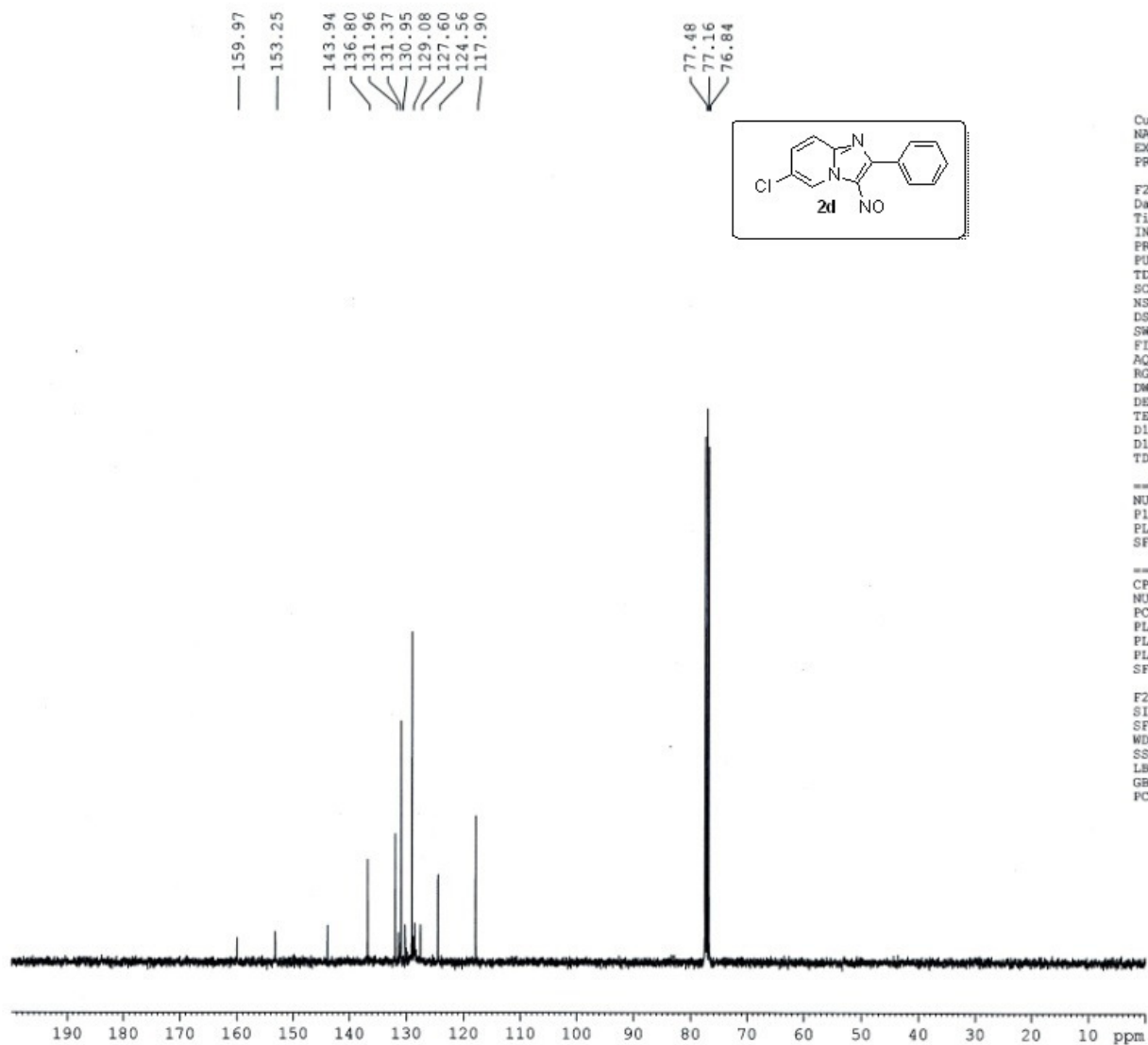


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PROCNO 1

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PULPROG zg30
TD 32768
SOLVENT CDC13
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.250967 Hz
AQ 1.9923444 sec
RG 106.66
DW 60.800 usec
DE 6.50 usec
TE 295.9 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PLW1 11.99499989 W
SFO1 400.1524711 MHz

F2 - Processing parameters
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SF 400.1500372 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



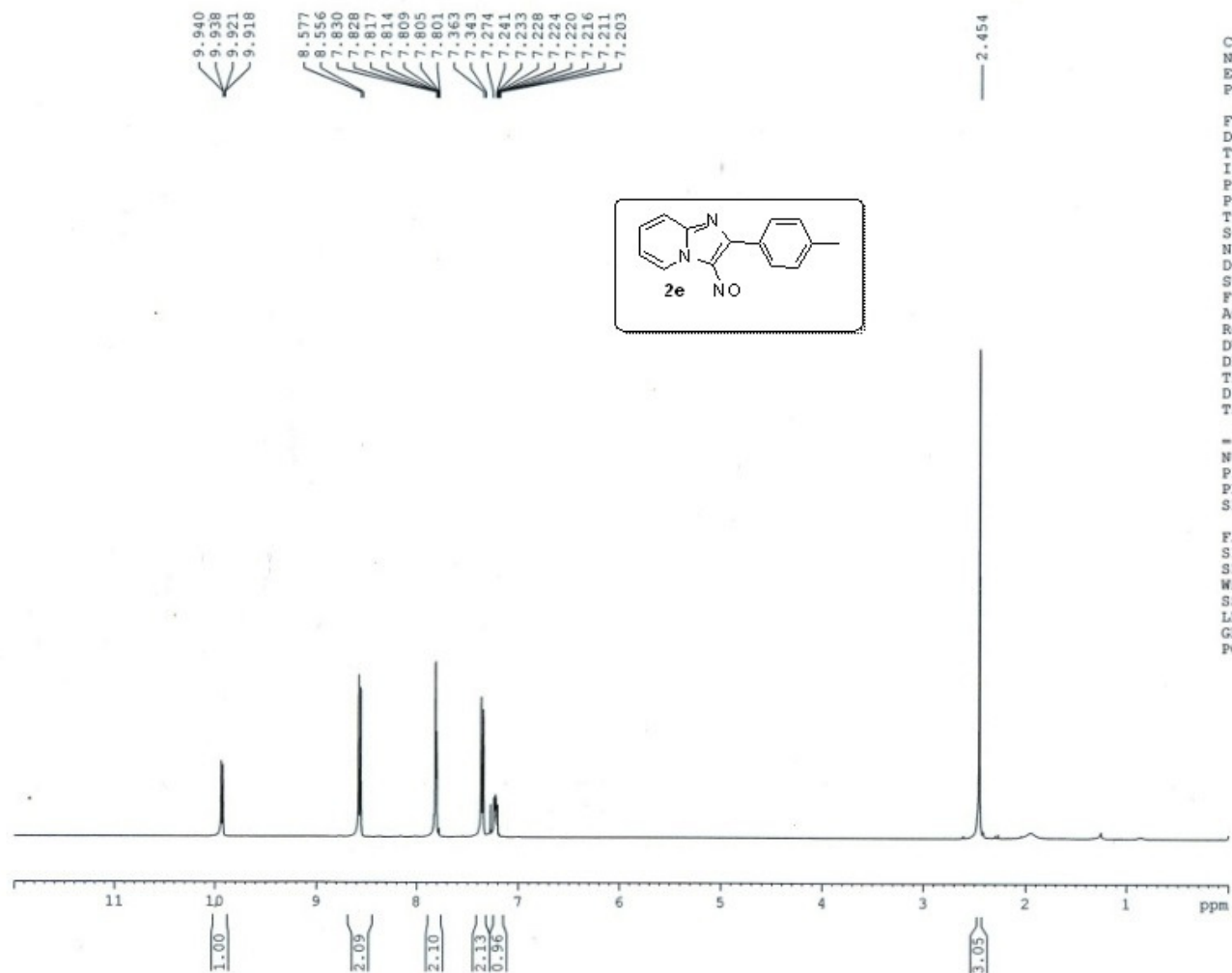
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EXPNO 581
PROCNO 1

F2 - Acquisition Parameters
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INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 512
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 106.66
DM 20.800 usec
DE 6.50 usec
TE 297.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177852 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

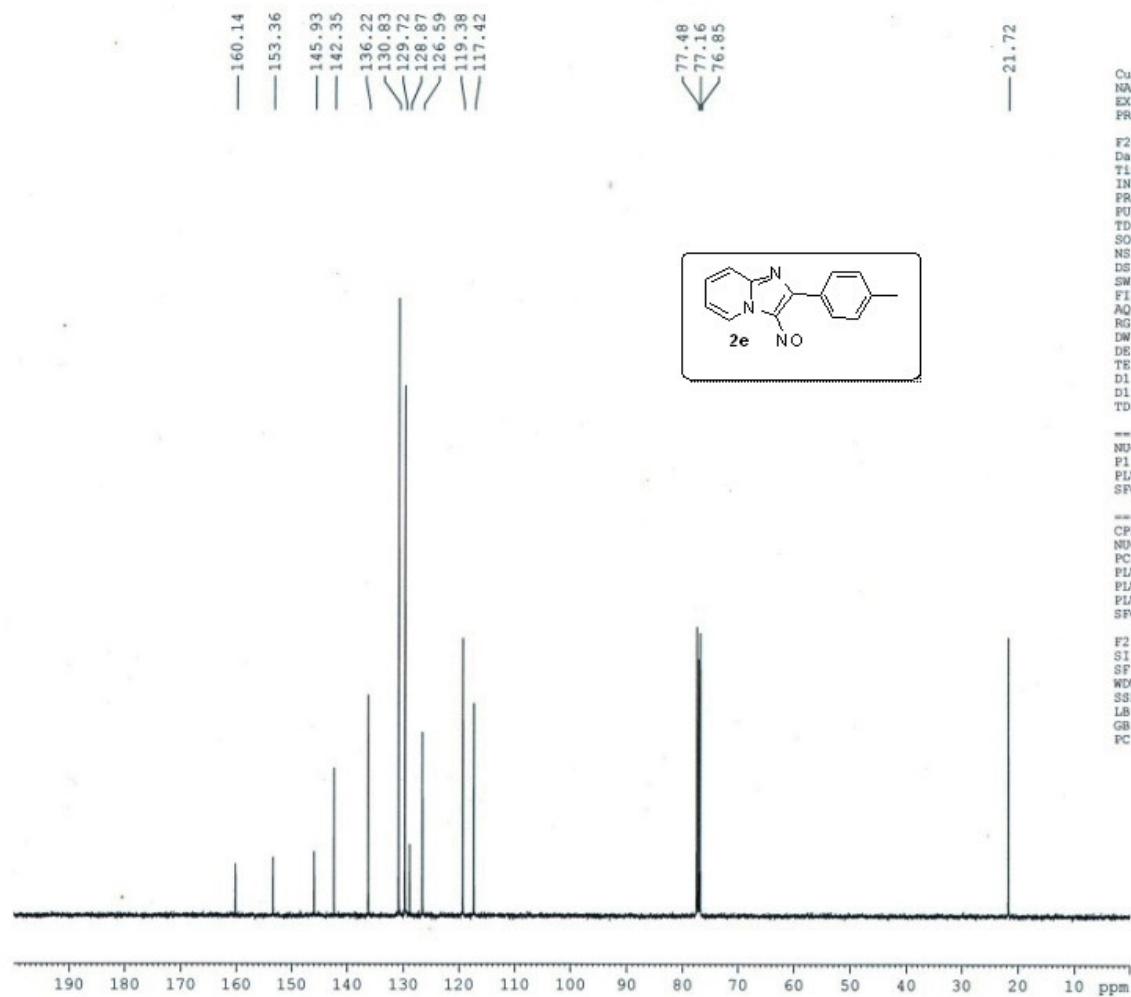


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 EXPNO 846
 PROCNO 1

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 SOLVENT CDCl3
 NS 32
 DS 2
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 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 87.66
 DW 60.800 usec
 DE 6.50 usec
 TE 296.2 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500030 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



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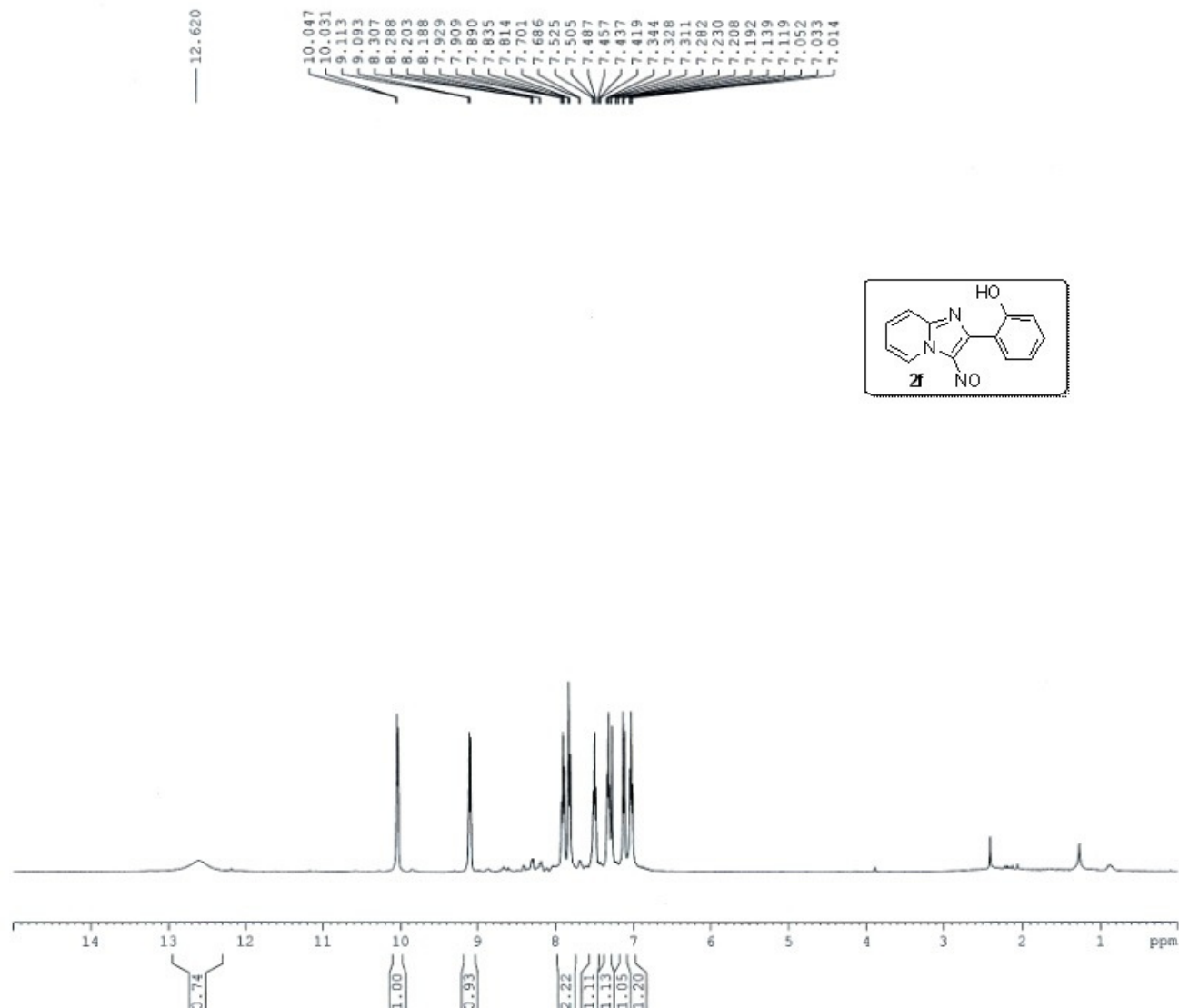
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 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 400
 DS 2
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 0.6816244 sec
 RG 87.66
 DW 20.800 usec
 DE 6.50 usec
 TE 296.9 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

----- CHANNEL f1 -----
 NUC1 13C
 P1 8.90 usec
 PLW1 54.00000000 W
 SFO1 100.6278588 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PLW2 12.00000000 W
 PLW12 0.40792999 W
 PLW13 0.26107001 W
 SFO2 400.1516006 MHz

F2 - Processing parameters
 SI 16384
 SF 100.6177900 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

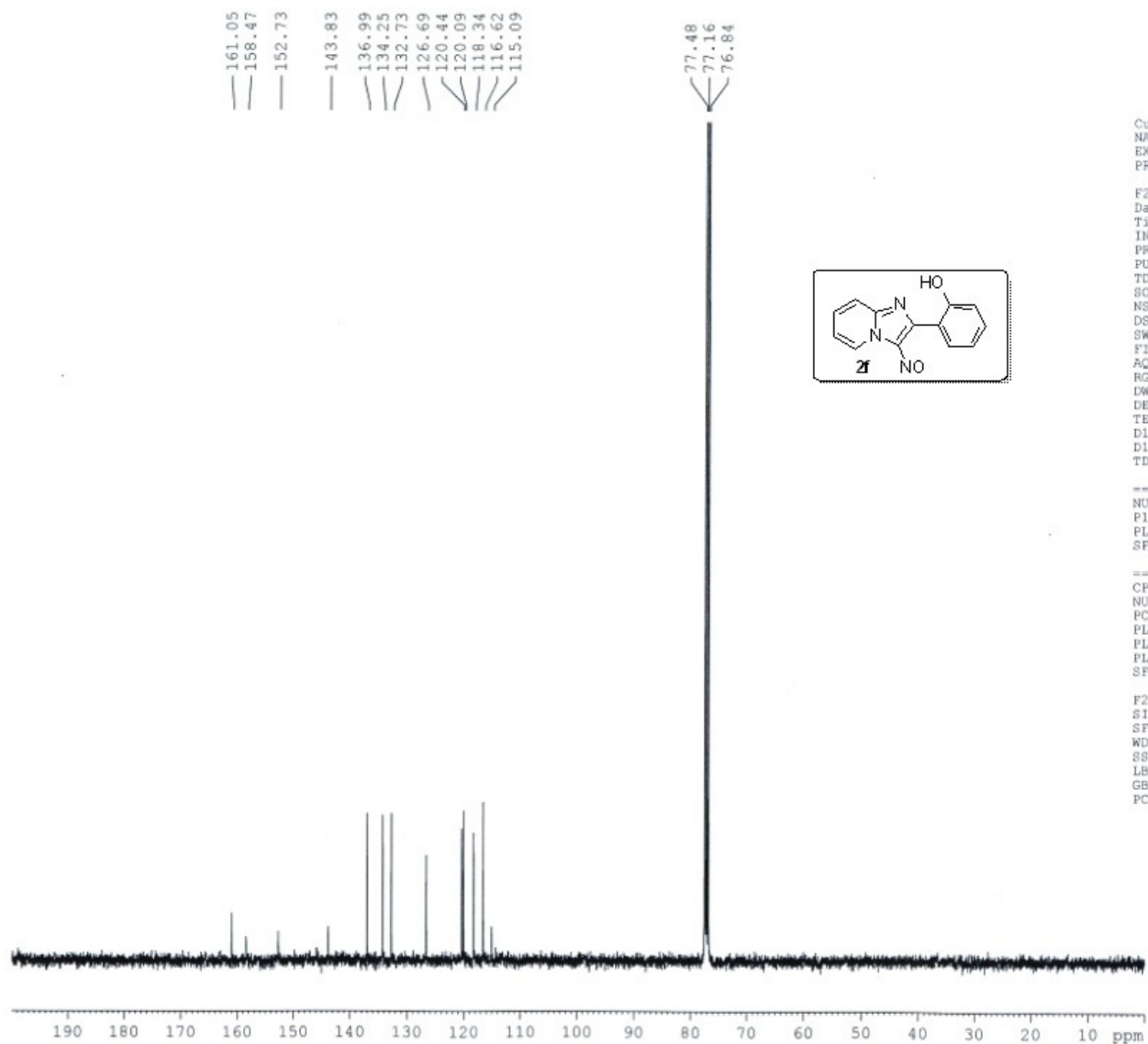


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EXPNO 122
PROCNO 1

F2 - Acquisition Parameters
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Time 12.00
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.250967 Hz
AQ 1.9923444 sec
RG 120.16
DW 60.800 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PLW1 11.99499989 W
SFO1 400.1524711 MHz

F2 - Processing parameters
SI 16384
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



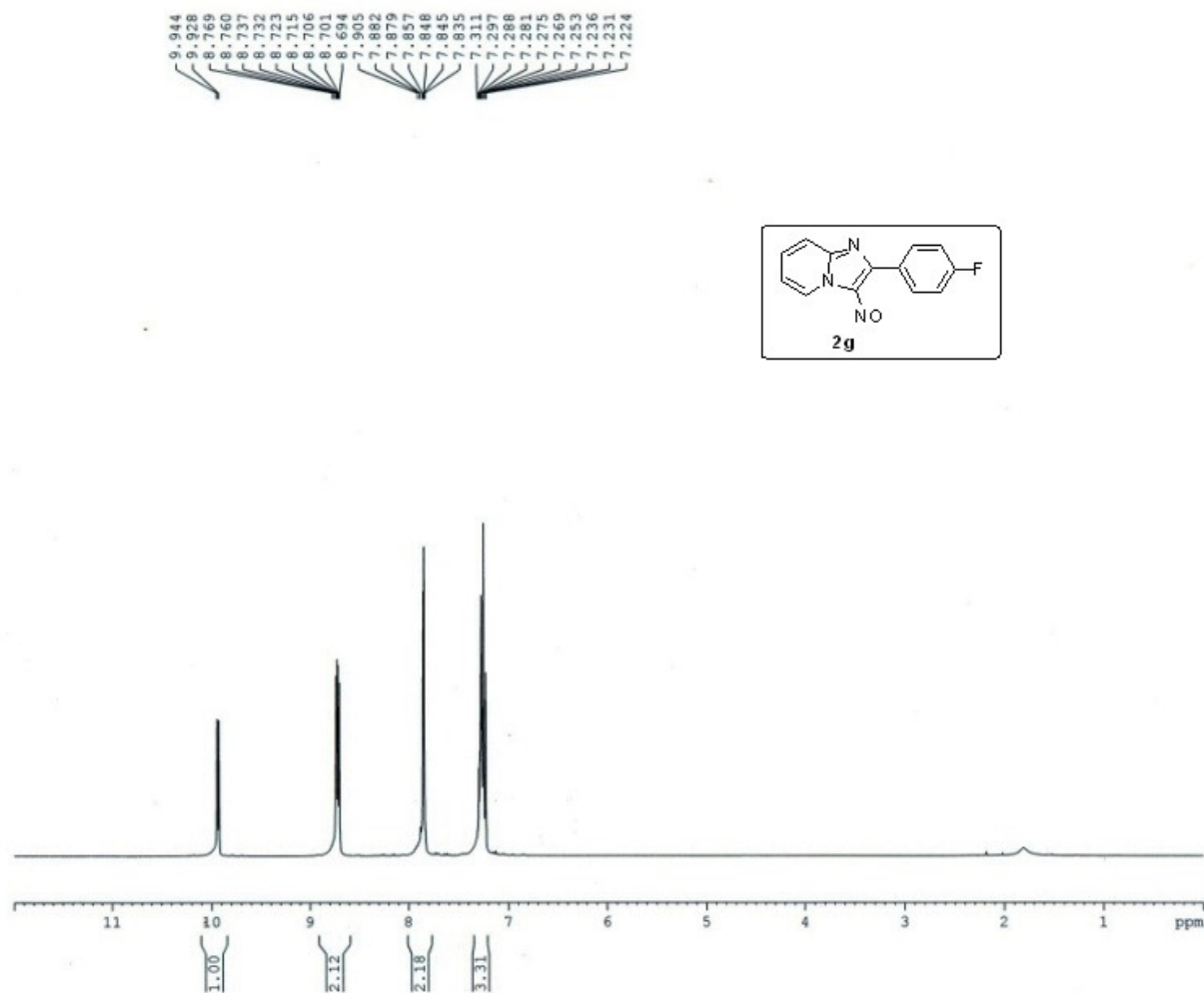
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EXPNO 123
PROCNO 1

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Time 12.49
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PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 1024
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 120.16
DW 20.800 usec
DE 6.50 usec
TE 299.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
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LB 1.00 Hz
GB 0
PC 1.40

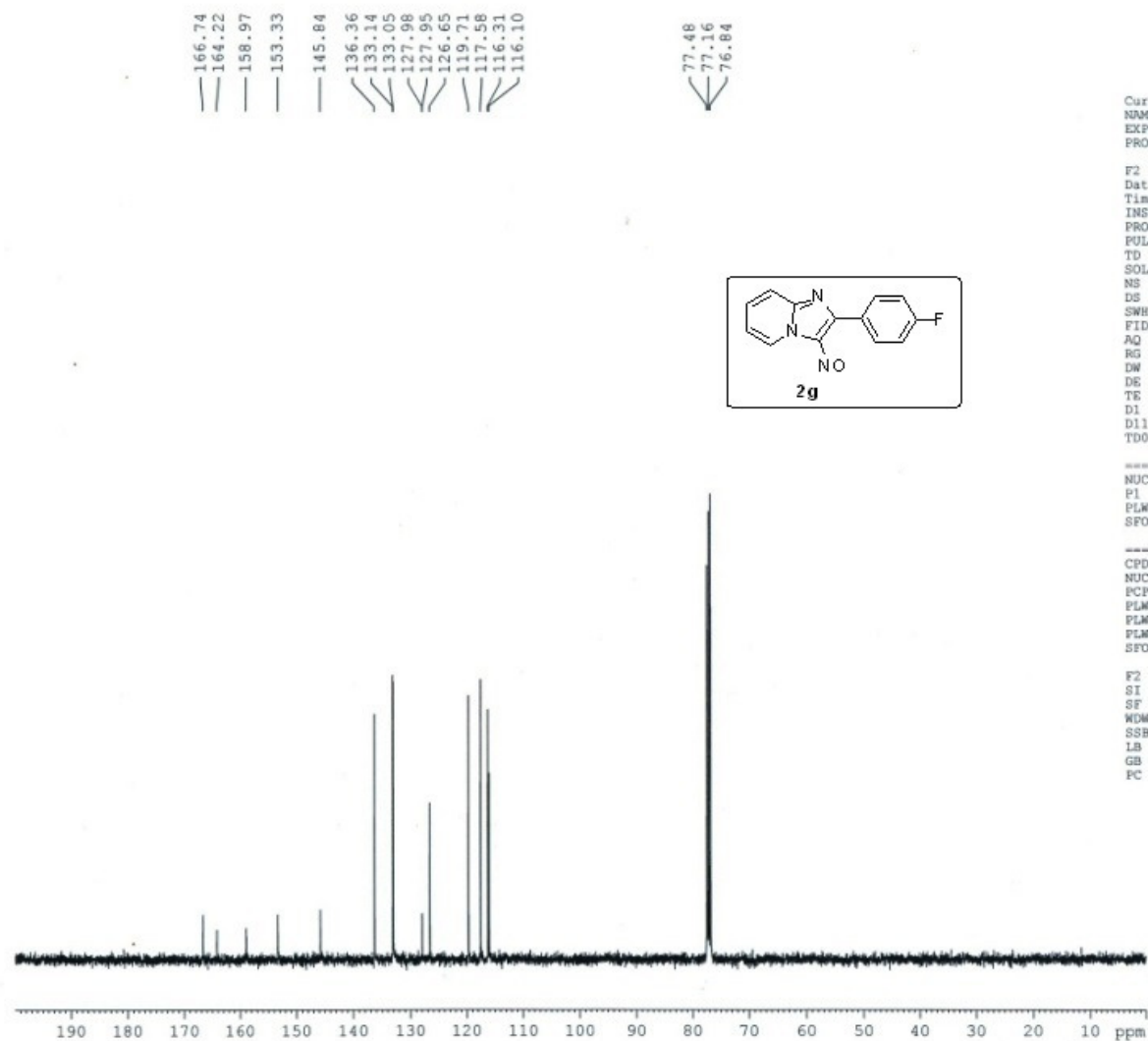


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EXPNO 1203
PROCNO 1

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PULPROG zg30
TD 32768
SOLVENT CDC13
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.250967 Hz
AQ 1.9923444 sec
RG 106.66
DW 60.800 usec
DE 6.50 usec
TE 295.3 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PLW1 11.99499989 W
SFO1 400.1524711 MHz

F2 - Processing parameters
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SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



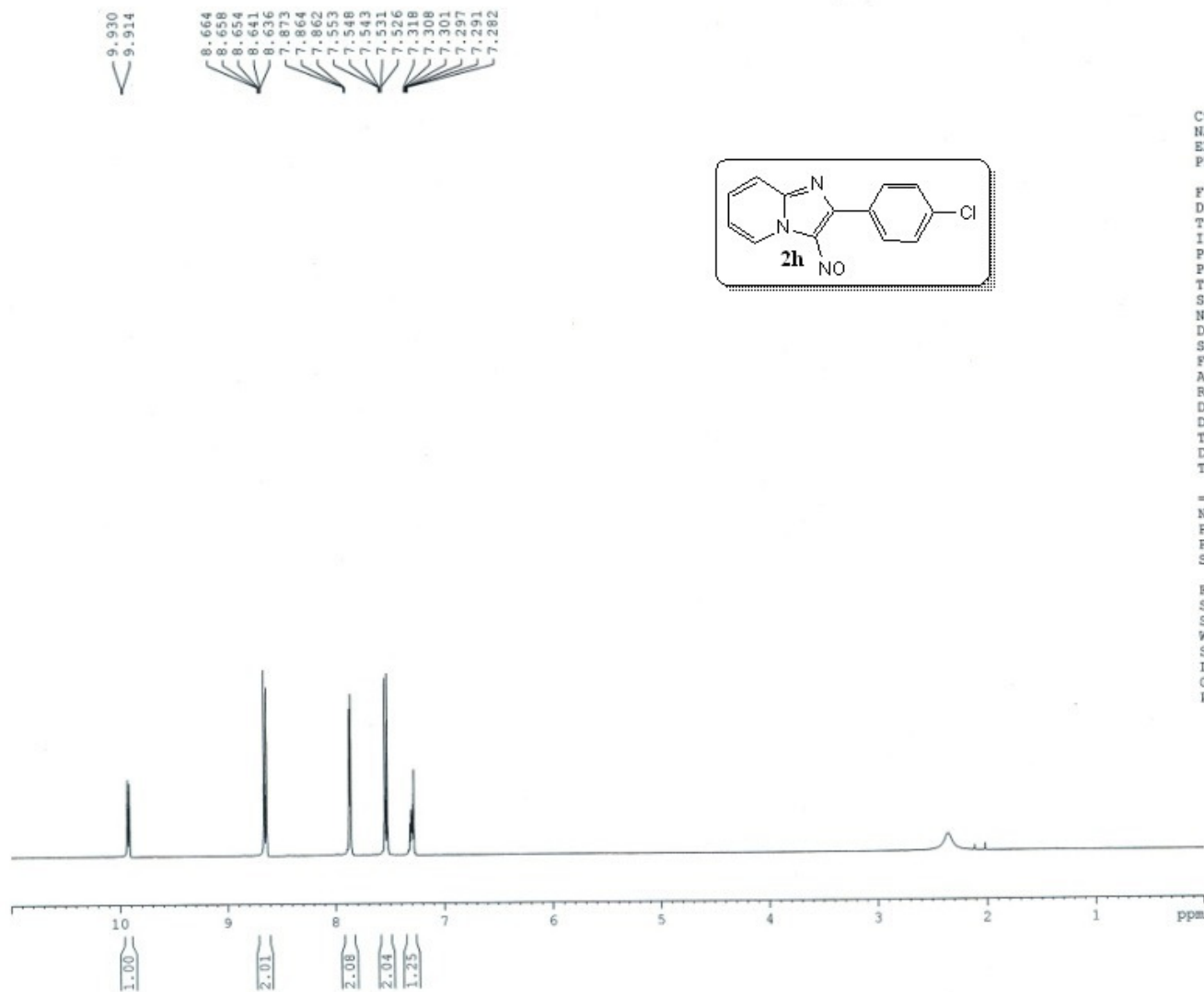
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SOLVENT CDCl3
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FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 106.66
DW 20.800 usec
DE 6.50 usec
TE 296.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792599 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
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LB 1.00 Hz
GB 0
PC 1.40

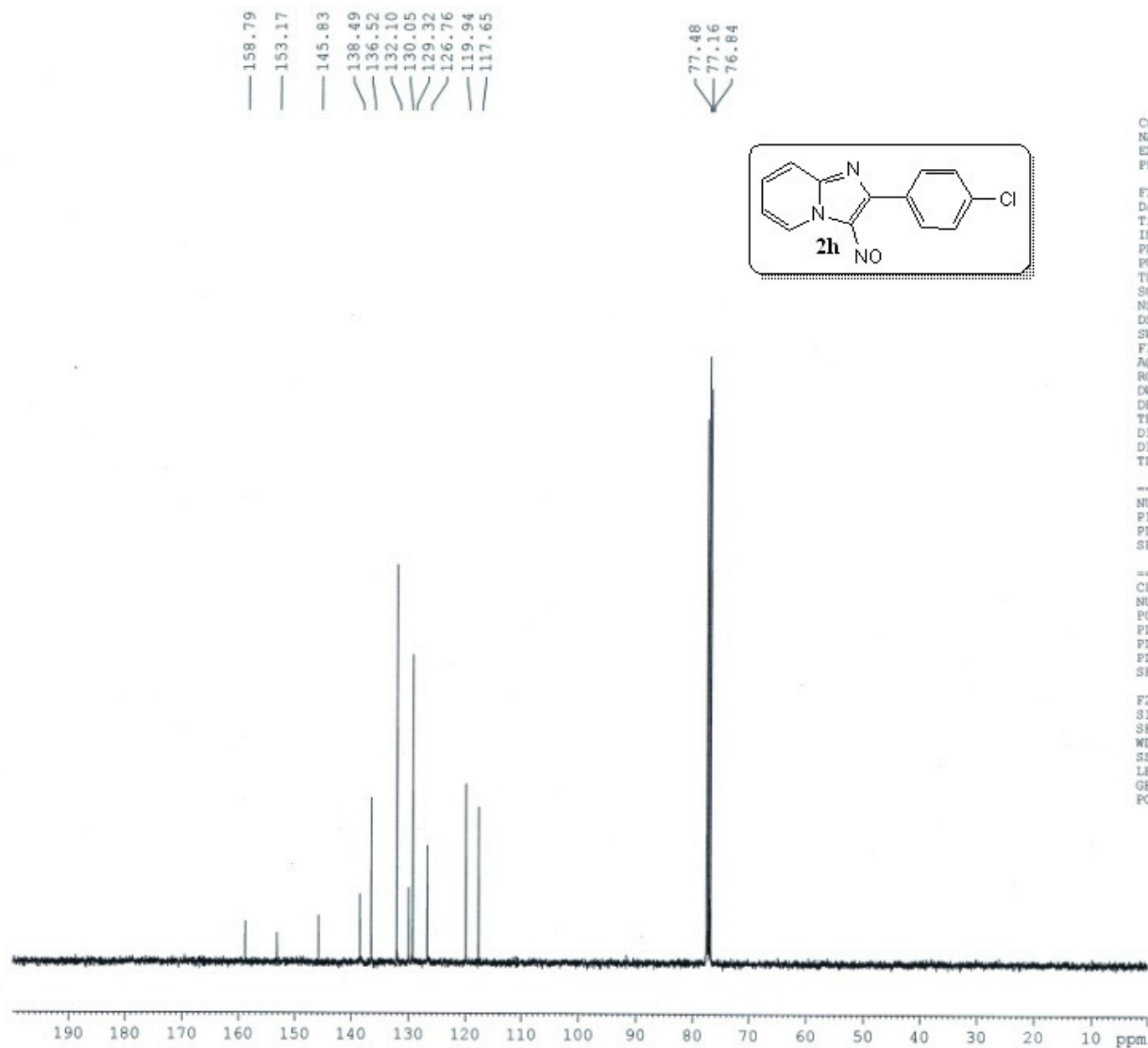


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 PROCNO 1

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 PULPROG zg30
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 SOLVENT CDCl3
 NS 34
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 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 120.16
 DW 60.800 usec
 DE 6.50 usec
 TE 299.4 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



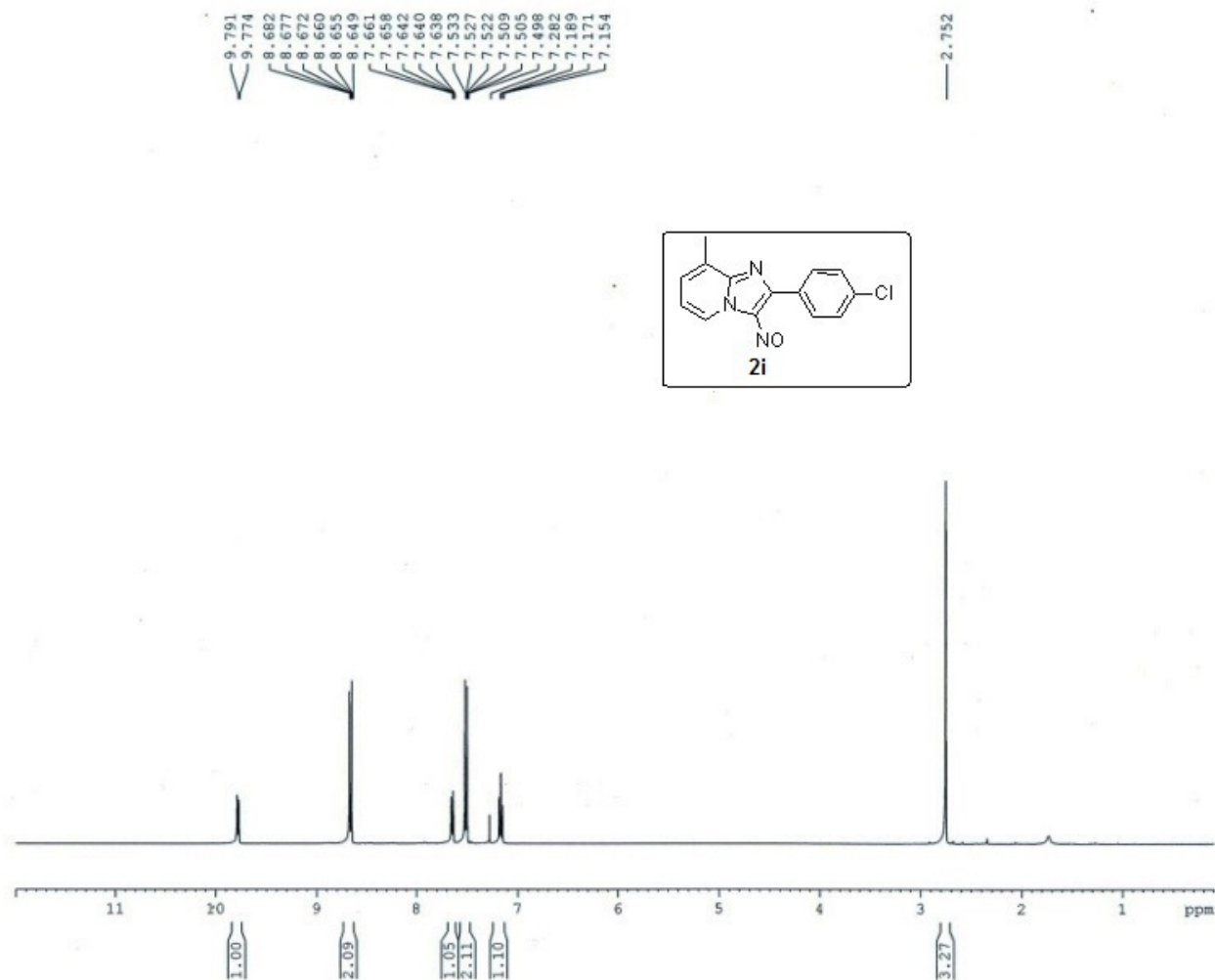
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SOLVENT CDCl₃
NS 512
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 47.25
DM 20.800 usec
DE 6.50 usec
TE 299.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
S1 16384
SF 100.6177851 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

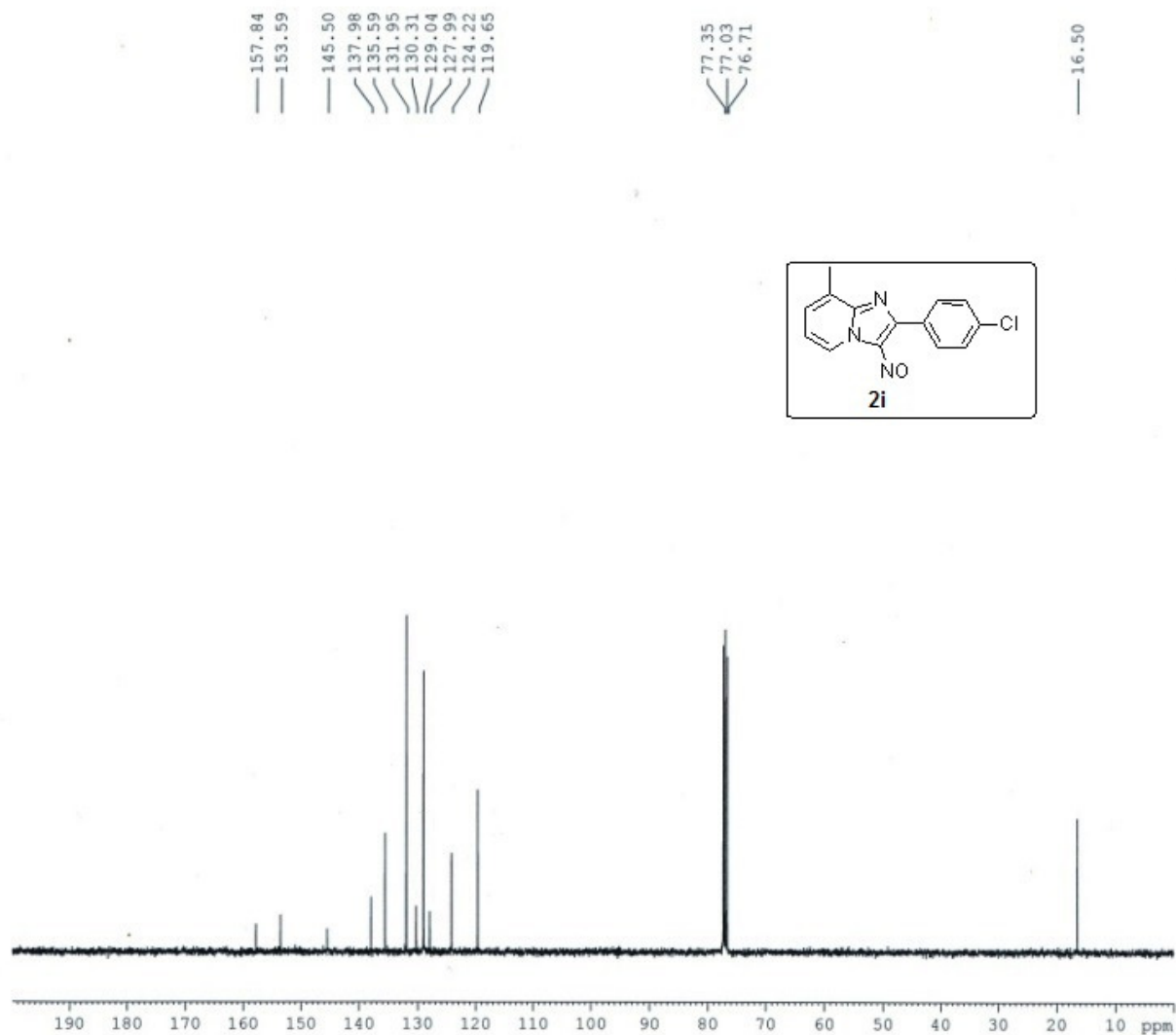


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NAME Dr. A HAJRA 2014
EXPNO 808
PROCNO 1

F2 - Acquisition Parameters
Date_ 20140901
Time 19.14
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 24
DS 2
SWH 8223.685 Hz
FIDRES 0.250967 Hz
AQ 1.9923444 sec
RG 87.66
DW 60.800 usec
DE 6.50 usec
TE 296.3 K
D1 1.00000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PLW1 11.99499989 W
SFO1 400.1524711 MHz

F2 - Processing parameters
SI 16384
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



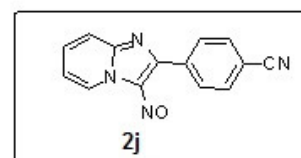
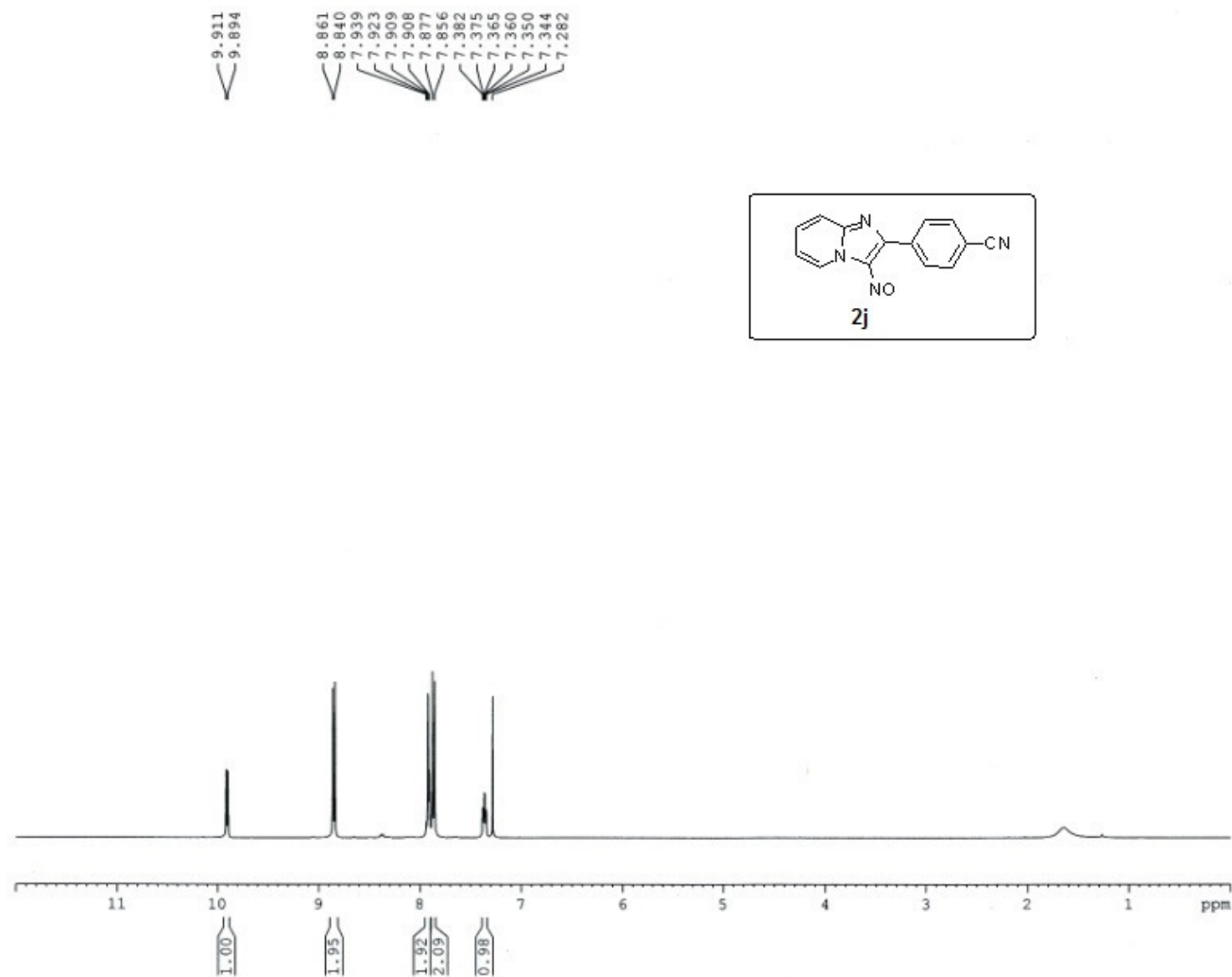
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EXFNO 809
PROCNO 1

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PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 320
DS 2
SWH 24039.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 87.66
DW 20.800 usec
DE 6.50 usec
TE 297.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
S1 16384
SF 100.6177980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

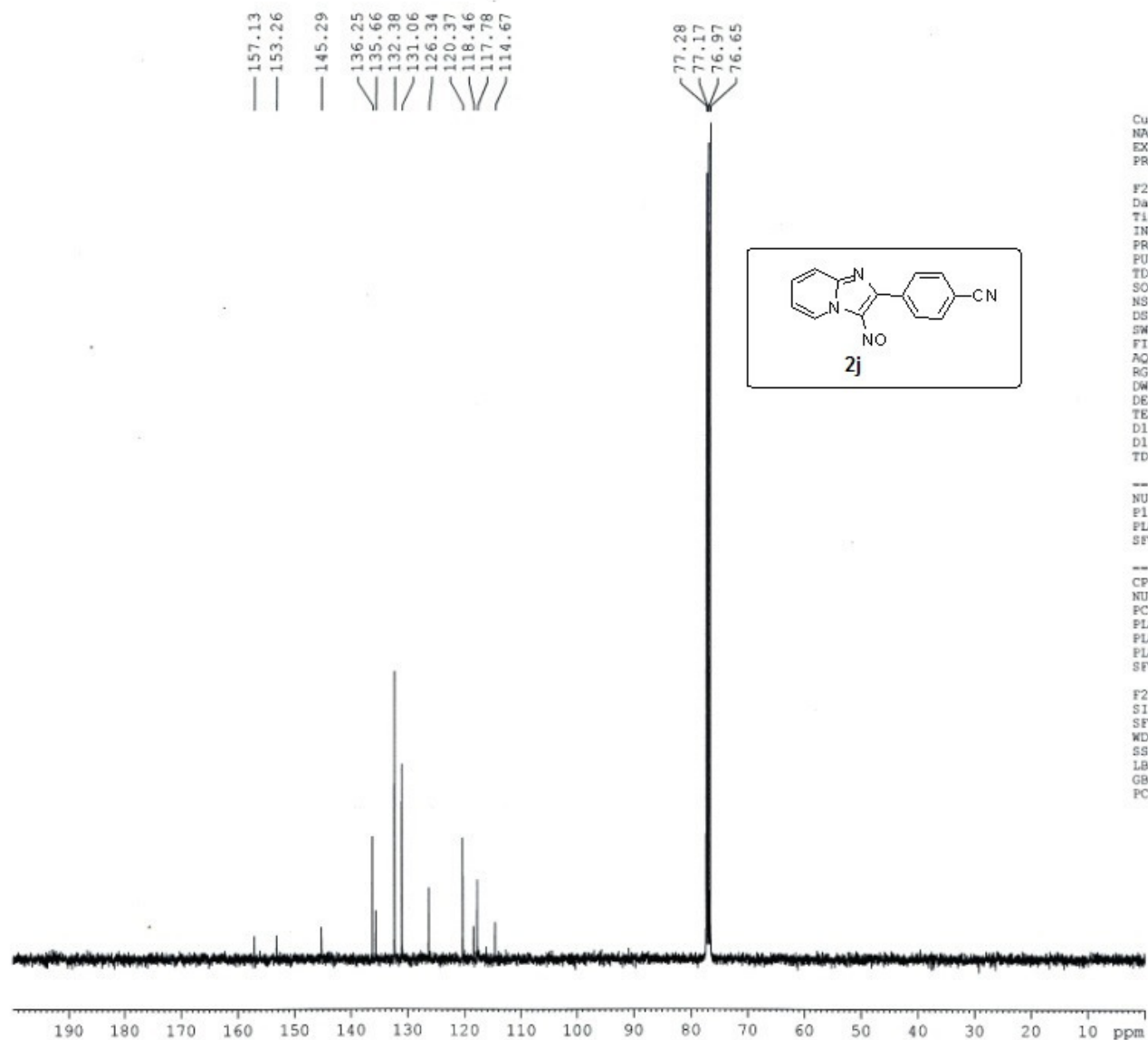


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 NAME Dr. A HAJRA 2015
 EXPNO 21
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20150202
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 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
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 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 148.91
 DW 60.800 usec
 DE 6.50 usec
 TE 296.8 K
 D1 1.00000000 sec
 TD0 1

----- CHANNEL f1 -----
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



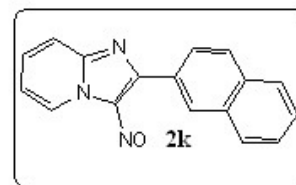
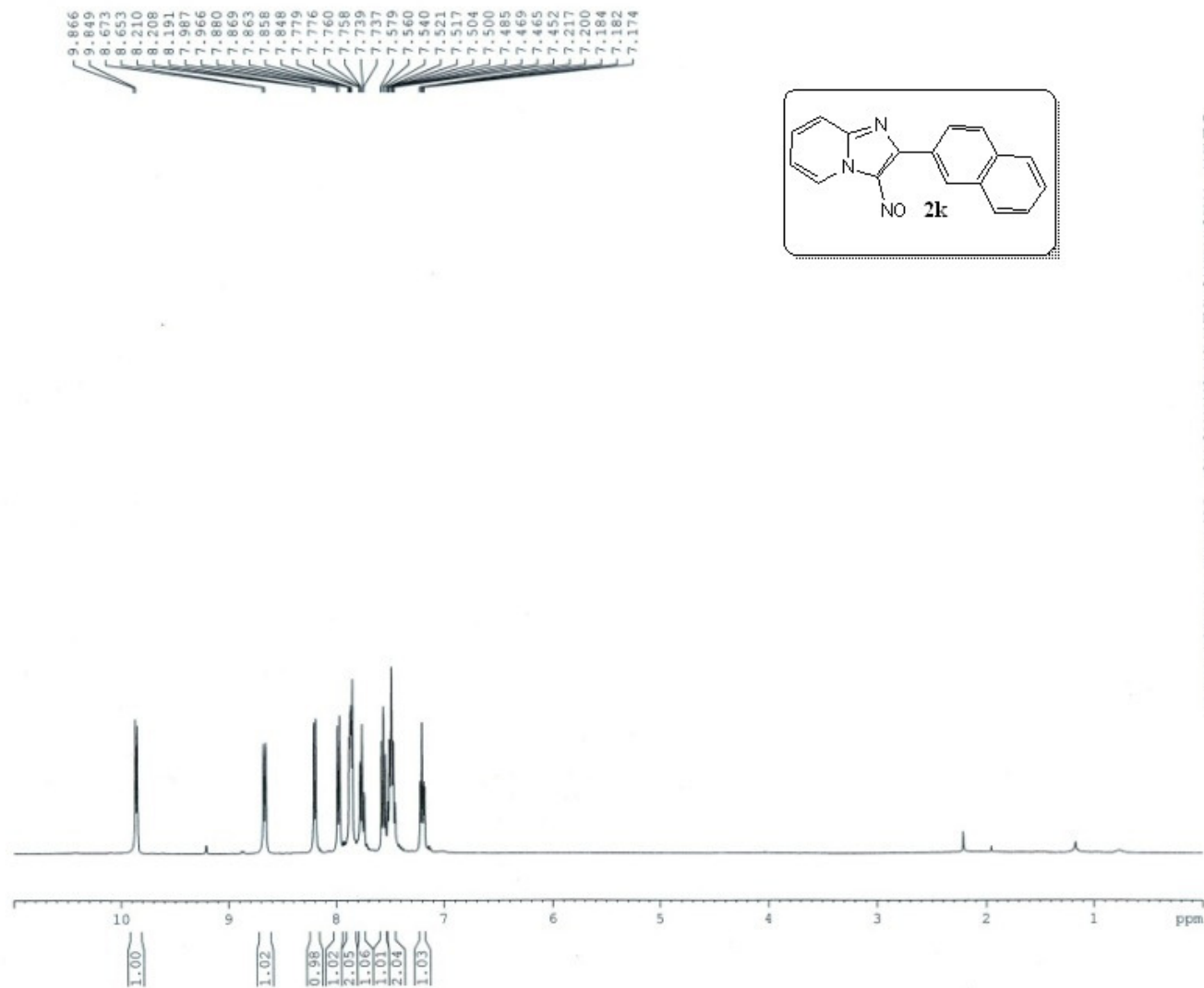
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 EXPNO 22
 PROCNO 1

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 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 1024
 DS 2
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 0.6816244 sec
 RG 148.91
 DW 20.800 usec
 DE 6.50 usec
 TE 297.8 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

----- CHANNEL f1 -----
 NUC1 13C
 P1 8.90 usec
 PLW1 54.00000000 W
 SFO1 100.6278588 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PLW2 12.00000000 W
 PLW12 0.40792999 W
 PLW13 0.26107001 W
 SFO2 400.1516006 MHz

F2 - Processing parameters
 S1 16384
 SF 100.6178026 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

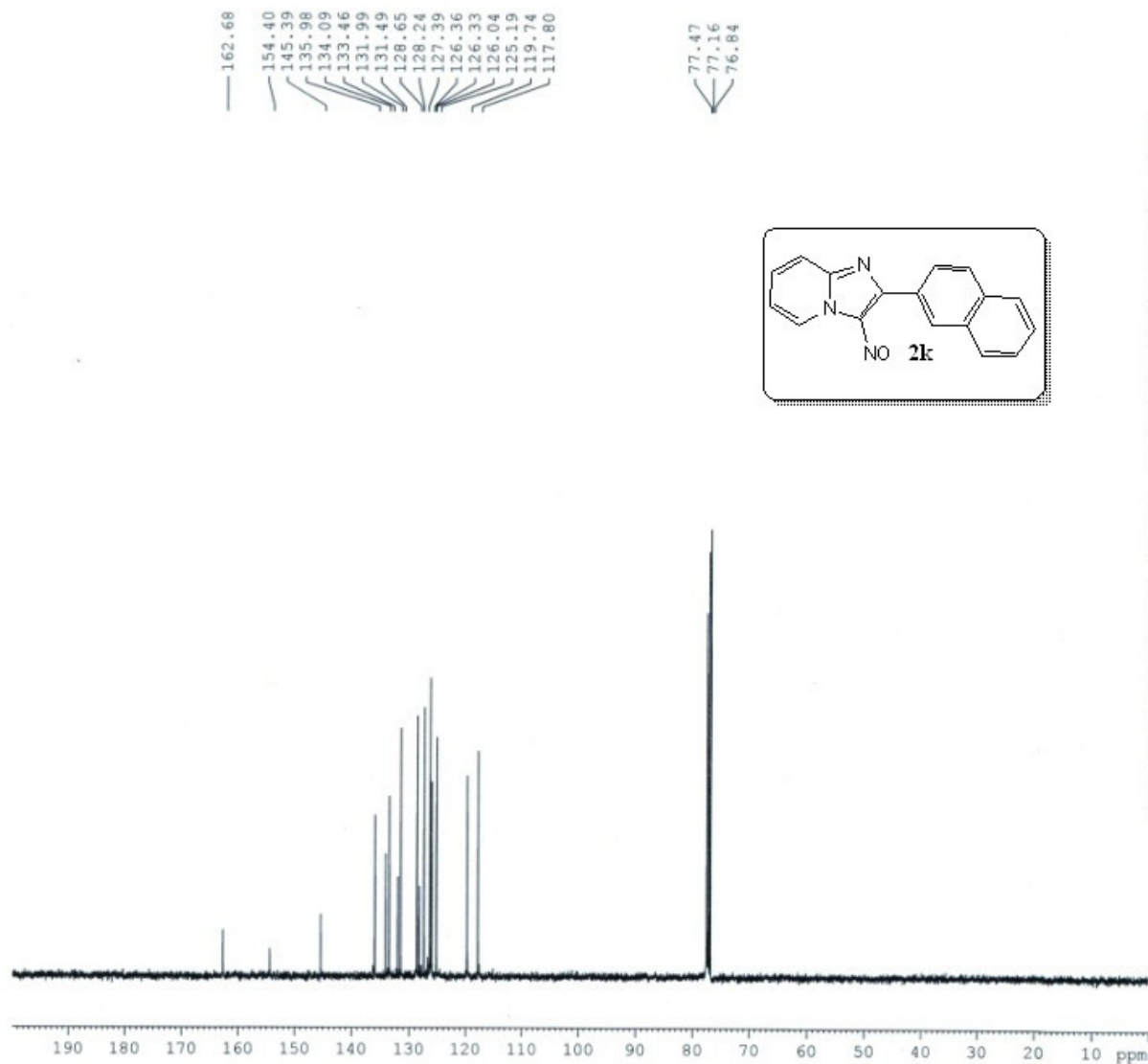


Current Data Parameters
NAME Dr. A HAJRA 2015
EXPNO 225
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150522
Time 18.22
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.250967 Hz
AQ 1.9923444 sec
RG 87.66
DW 60.800 usec
DE 6.50 usec
TE 299.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PLW1 11.99499989 W
SFO1 400.1524711 MHz

F2 - Processing parameters
SI 16384
SF 400.1500434 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



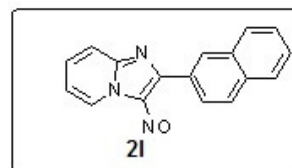
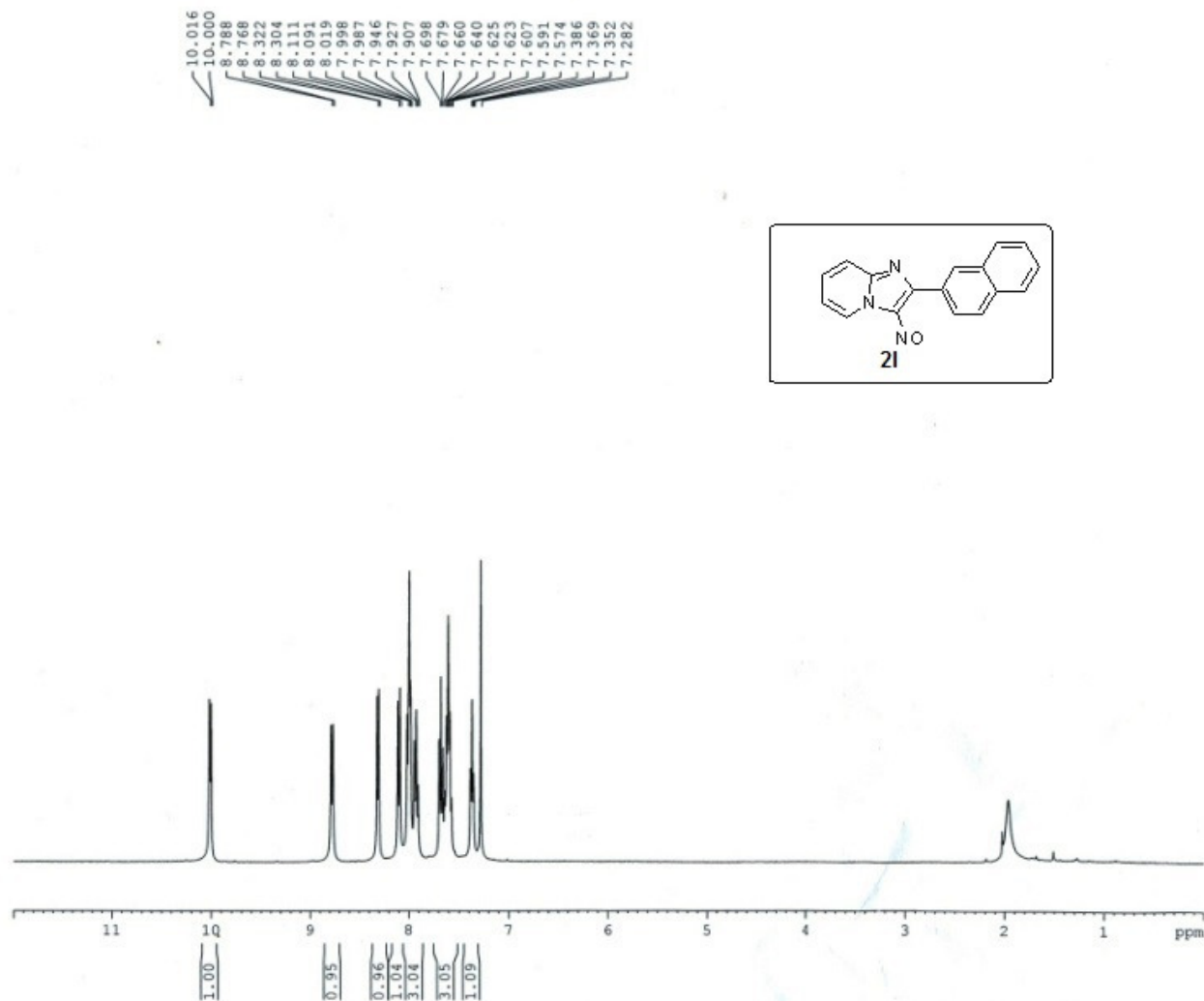
Current Data Parameters
NAME Dr. A RAJRA 2015
EXPNO 226
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150522
Time 18.58
INSTRUM spect
PROBHD 5 mm PARBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 512
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 87.66
DW 20.800 usec
DE 6.50 usec
TE 300.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177880 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

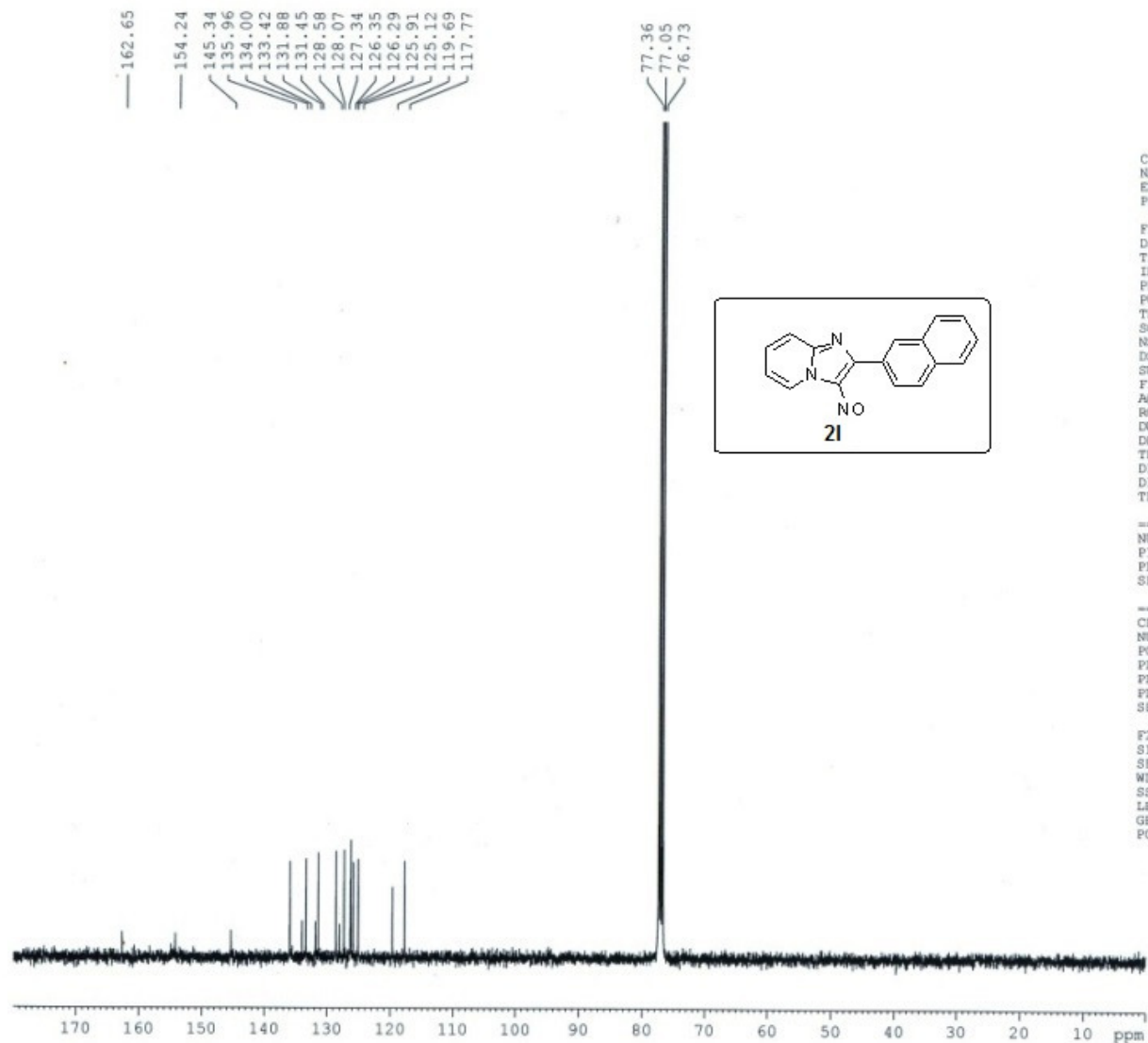


Current Data Parameters
NAME Dr. A HAJRA 2014
EXPNO 1213
PROCNO 1

F2 - Acquisition Parameters
Date_ 20141202
Time 12.01
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.250967 Hz
AQ 1.9923444 sec
RG 186.42
DW 60.800 usec
DE 6.50 usec
TE 295.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PLW1 11.99499989 W
SFO1 400.1524711 MHz

F2 - Processing parameters
SI 16384
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



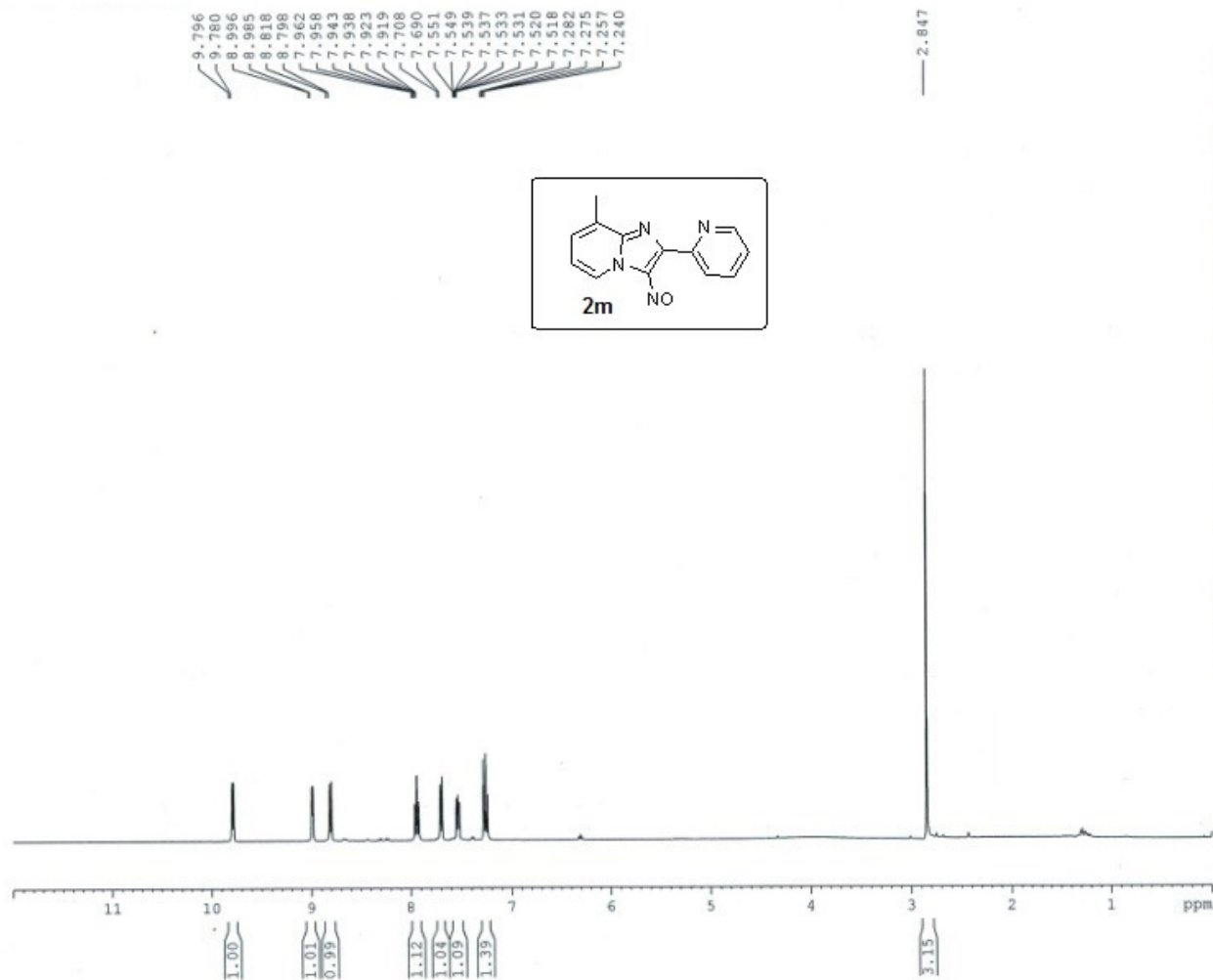
Current Data Parameters
NAME Dr. A HAJRA 2014
EXPNO 1214
PROCNO 1

F2 - Acquisition Parameters
Date_ 20141202
Time 12.50
INSTRUM spect
PROBHD 5 mm PARBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 1024
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 47.25
DW 20.800 usec
DE 6.50 usec
TE 296.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

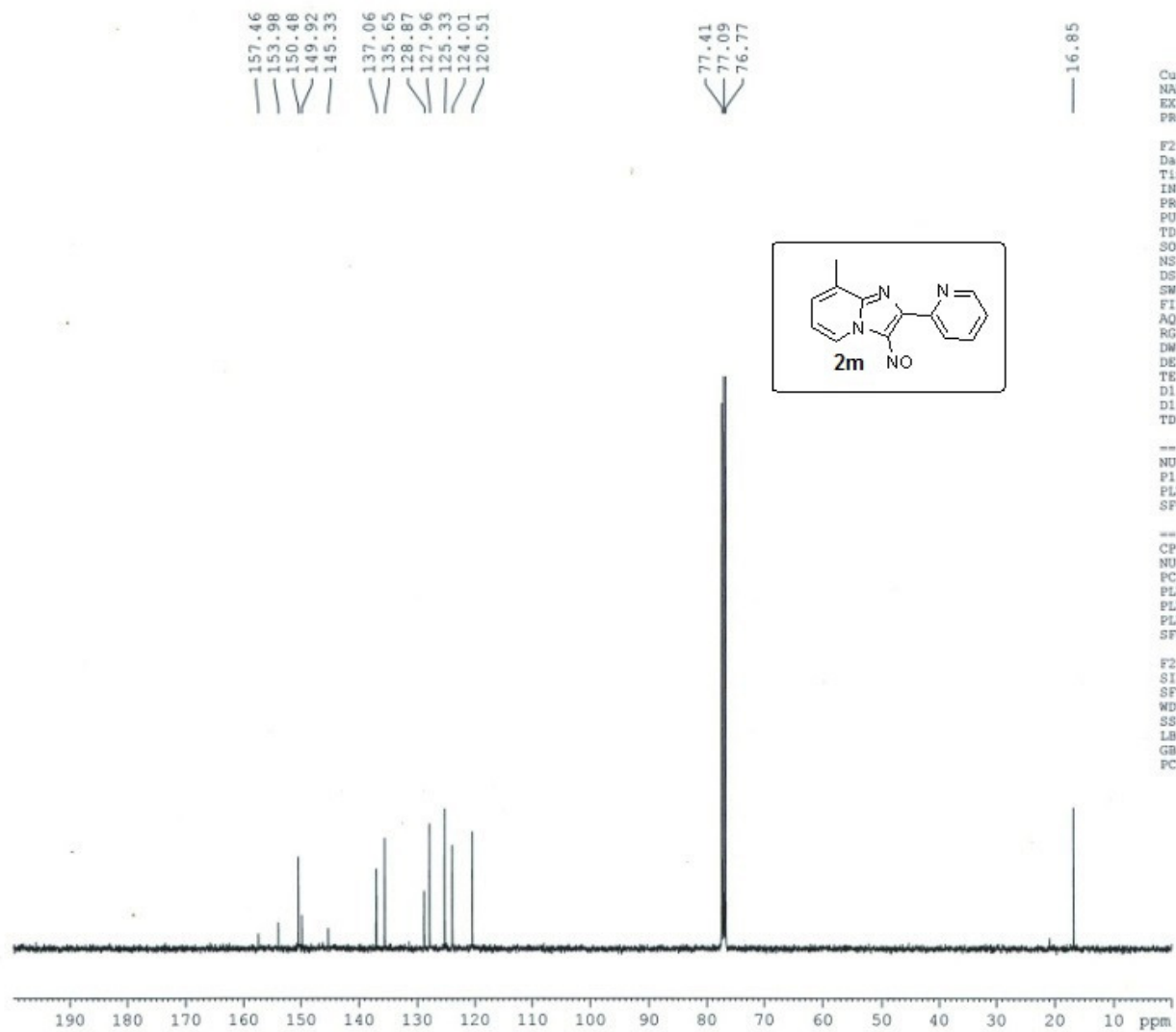


Current Data Parameters
 NAME Dr. A HAJRA 2014
 EXPNO 794
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20140828
 Time_ 17.35
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 32768
 SOLVENT CDC13
 NS 32
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 87.66
 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
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500001 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



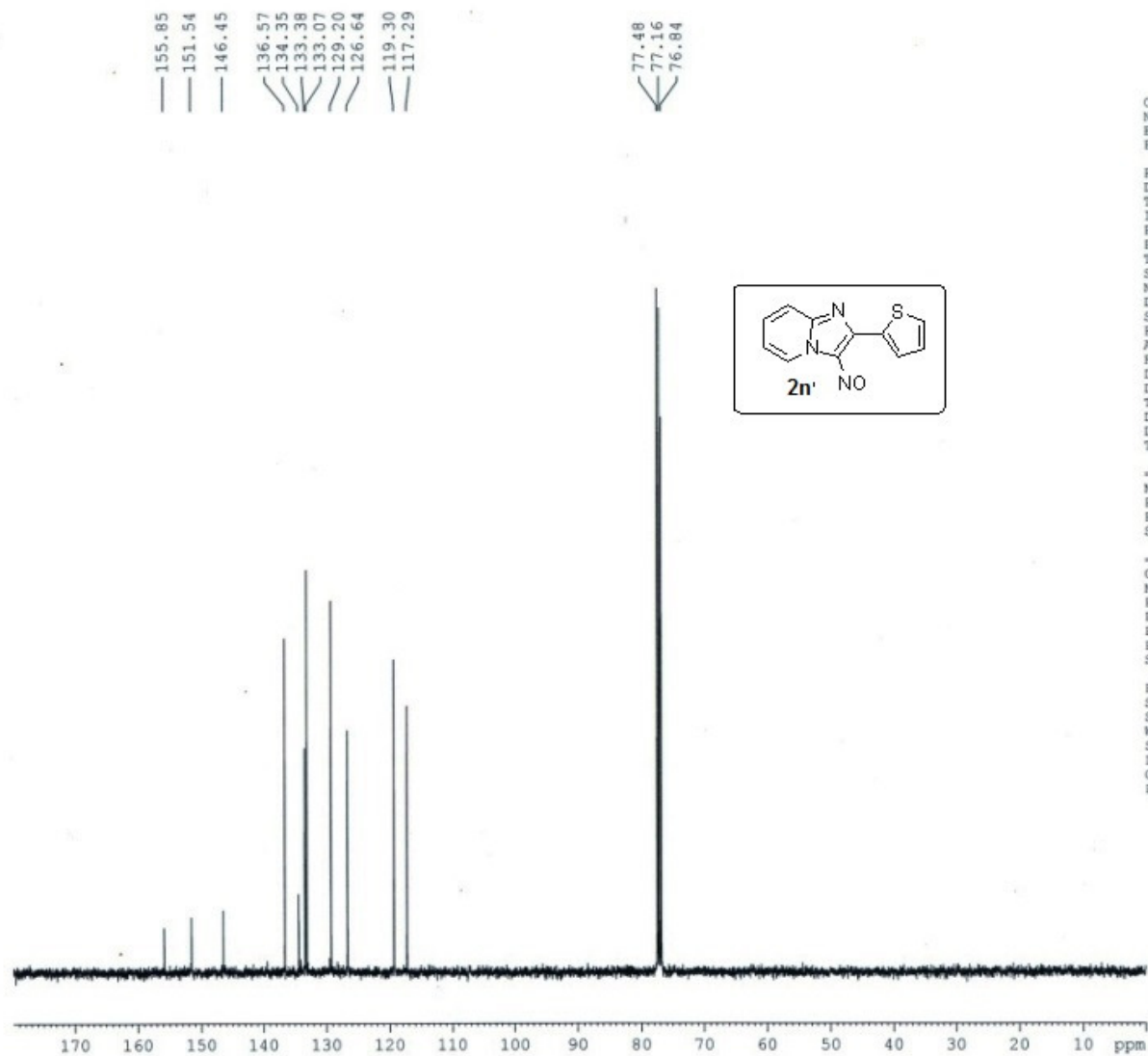
Current Data Parameters
NAME Dr. A RAJRA 2014
EXPNO 795
PROCNO 1

F2 - Acquisition Parameters
Date_ 20140828
Time 18.04
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 512
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 87.66
DW 20.800 usec
DE 6.50 usec
TE 297.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

CHANNEL f1
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

CHANNEL f2
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



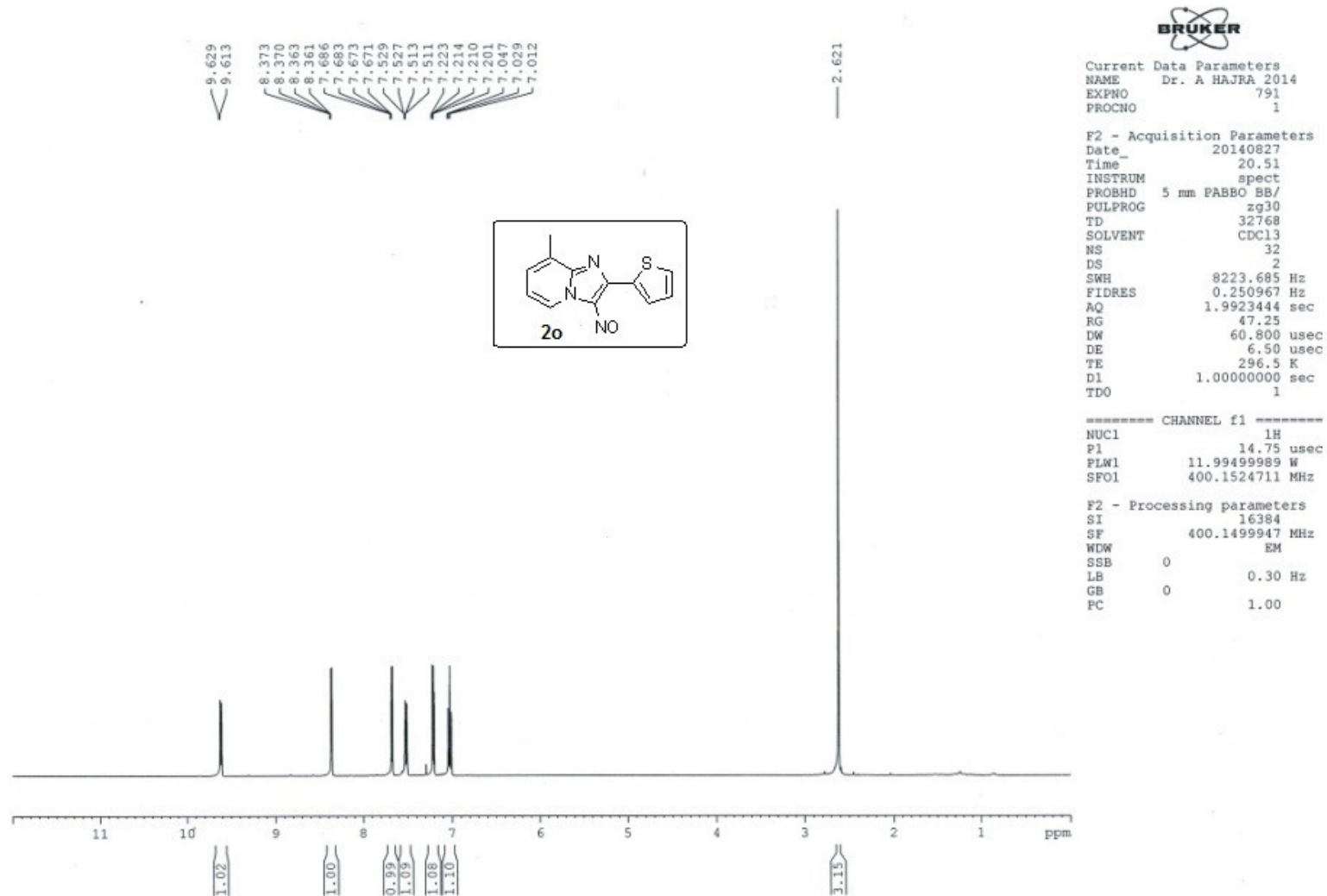
Current Data Parameters
 NAME Dr. A HAJRA 2014
 EXPNO 800
 PROCNO 1

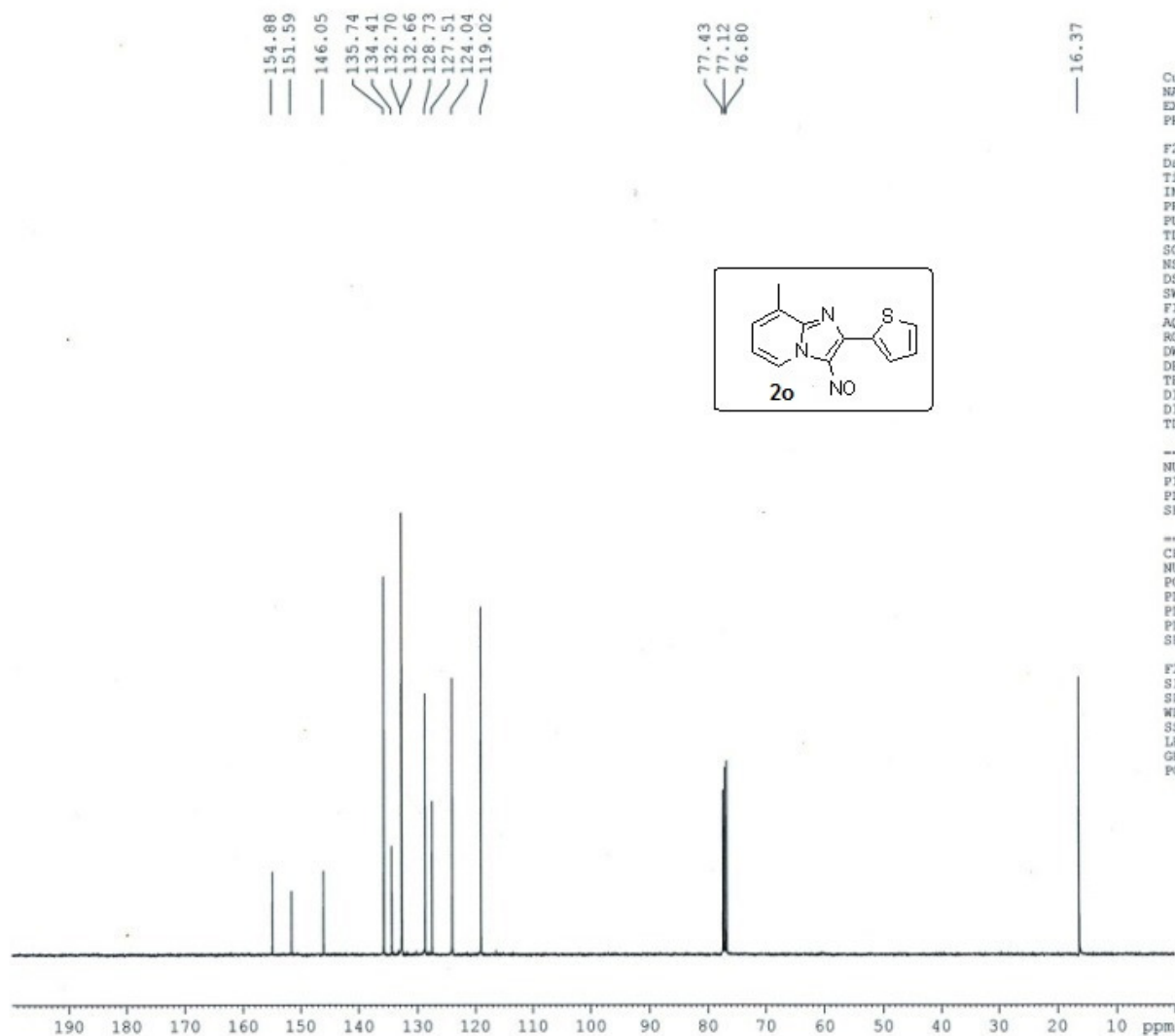
F2 - Acquisition Parameters
 Date 20140830
 Time 20.21
 INSTRUM spect
 PROBRD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 512
 DS 2
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 0.6816244 sec
 RG 87.66
 DW 20.800 usec
 DE 6.50 usec
 TE 296.7 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.90 usec
 PLW1 54.00000000 W
 SFO1 100.6278588 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PLW2 12.00000000 W
 PLW12 0.40792999 W
 PLW13 0.26107001 W
 SFO2 400.1516006 MHz

F2 - Processing parameters
 SI 16384
 SF 100.6177866 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





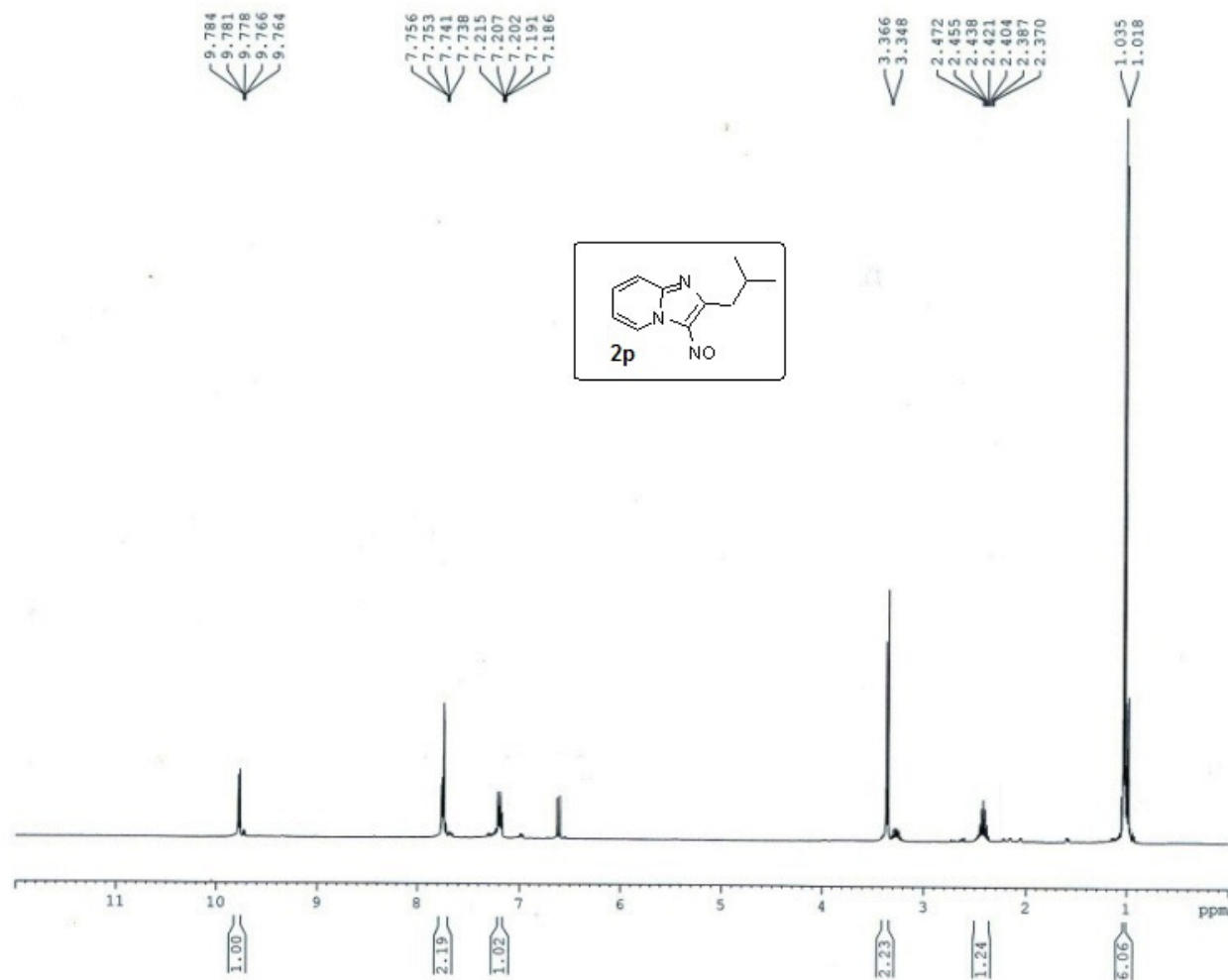
Current Data Parameters
NAME Standard 13C
EXFNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20140828
Time_ 12.07
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 512
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 47.25
DW 20.800 usec
DE 6.50 usec
TE 296.8 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6178026 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

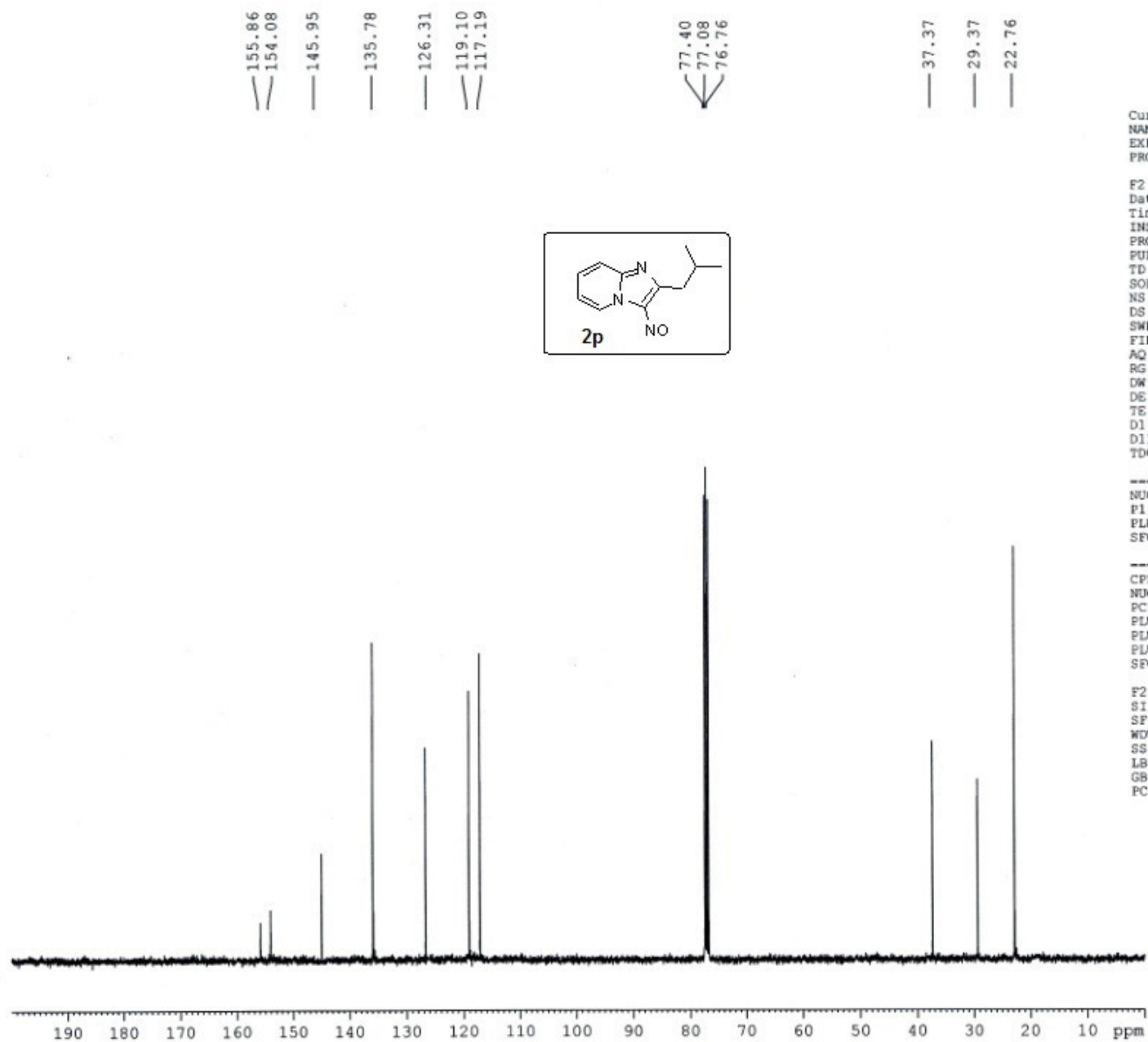


Current Data Parameters
 NAME Dr. A HAJRA 2015
 EXPNO 78
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20150306
 Time 20.01
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 40.87
 DW 60.800 usec
 DE 6.50 usec
 TE 293.3 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500264 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



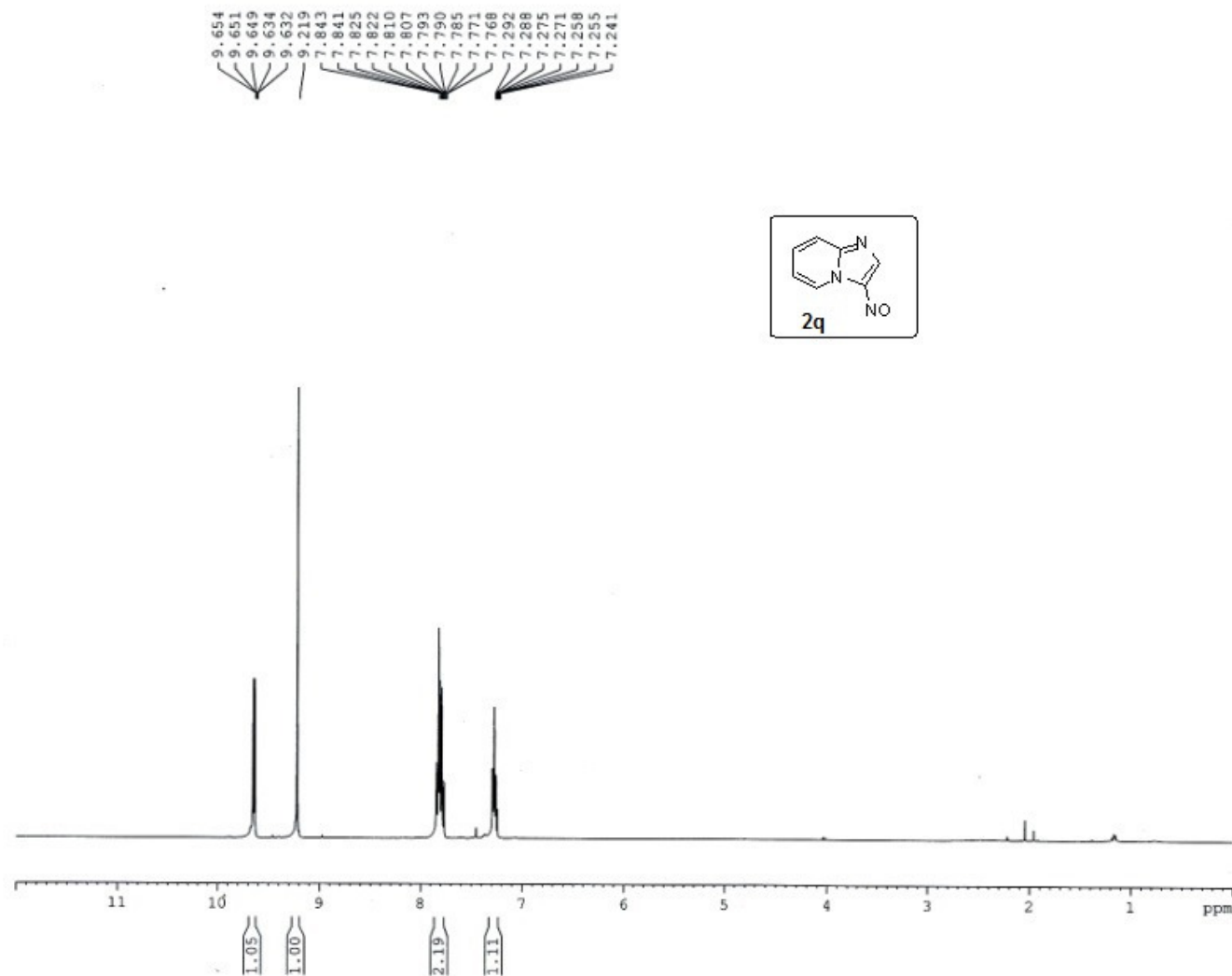
Current Data Parameters
 NAME Dr. A HAJRA 2015
 EXPNO 79
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20150306
 Time 20.30
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 512
 DS 2
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 0.6816244 sec
 RG 37.83
 DW 20.800 usec
 DE 6.50 usec
 TE 294.4 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.90 usec
 PLW1 54.00000000 W
 SFO1 100.6278588 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PLW2 12.00000000 W
 PLW12 0.40792999 W
 PLW13 0.26107001 W
 SFO2 400.1516006 MHz

F2 - Processing parameters
 SI 16384
 SF 100.6177980 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

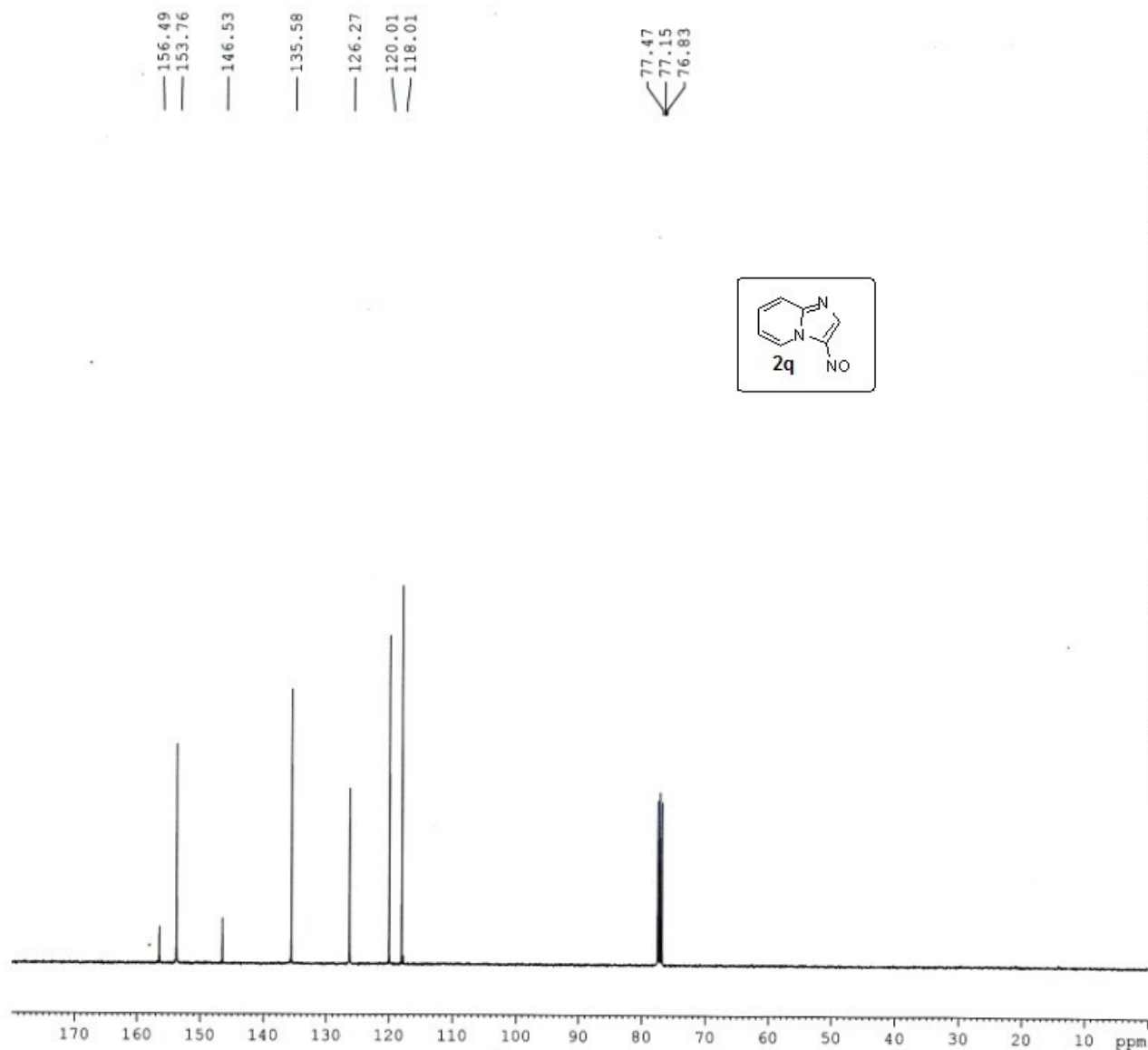


Current Data Parameters
 NAME Dr. A HAJRA 2014
 EXPNO 1335
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20150101
 Time 17.50
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 24
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 40.87
 DW 60.800 usec
 DE 6.50 usec
 TE 296.0 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500161 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Current Data Parameters
NAME Dr. A RAJRA 2014
EXPNO 1336
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150101
Time 18.16
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 512
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 40.87
DW 20.800 usec
DE 6.50 usec
TE 296.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

9.855
9.853
9.841
9.838
8.567
8.562
8.550
8.545
7.708
7.705
7.698
7.658
7.637
7.619
7.124
7.118
7.108
7.102
7.093
7.086
6.988
6.981
6.976
6.964
6.959
6.952
6.019
6.005
5.989
5.976
5.962
5.393
5.389
5.350
5.346
5.255
5.252
5.229
5.226
4.561
4.557
4.554
4.547
4.544
4.540

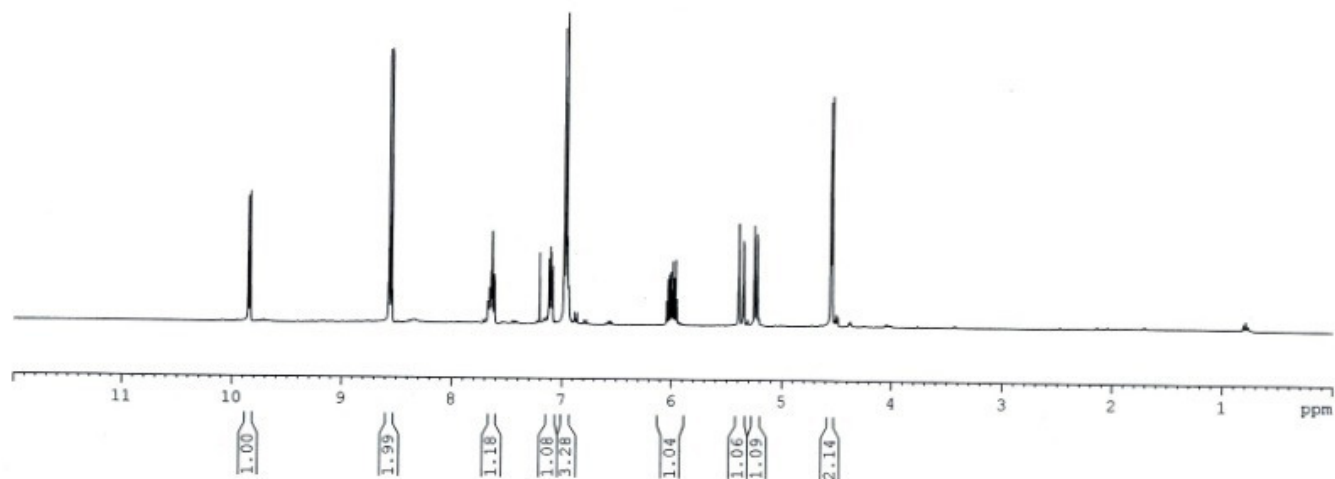
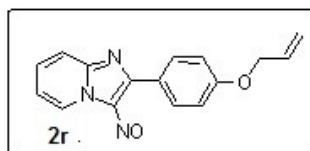


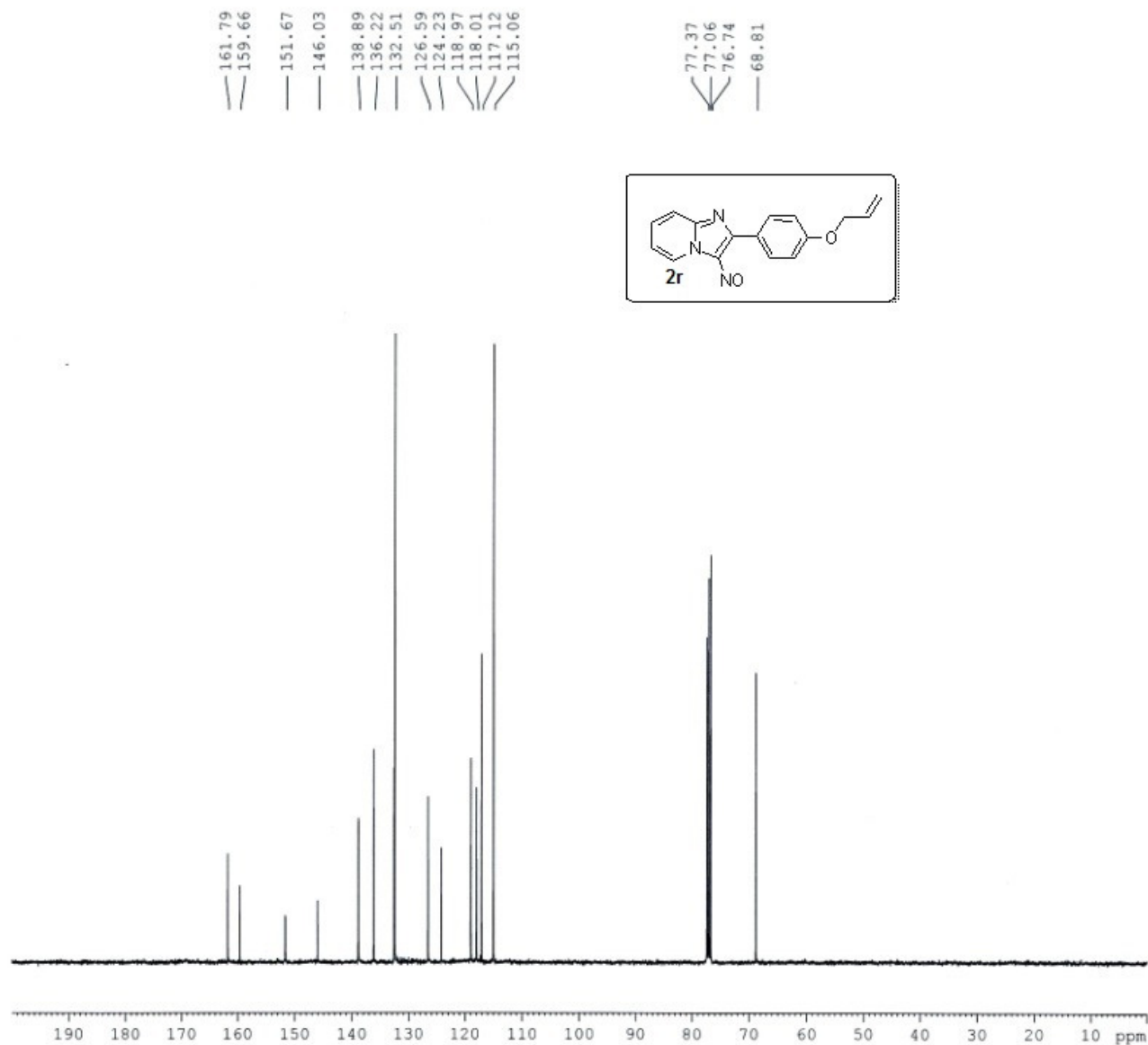
Current Data Parameters
NAME Dr. A HAJRA 2015
EXPNO 124
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150417
Time_ 11.29
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 32768
SOLVENT CDC13
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.250967 Hz
AQ 1.9923444 sec
RG 40.87
DW 60.800 usec
DE 6.50 usec
TE 296.1 K
D1 1.00000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PLW1 11.99499989 W
SFO1 400.1524711 MHz

F2 - Processing parameters
SI 16384
SF 400.1500303 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





Current Data Parameters
 NAME Dr. A HAJRA 2015
 EXPNO 129
 PROCNO 1

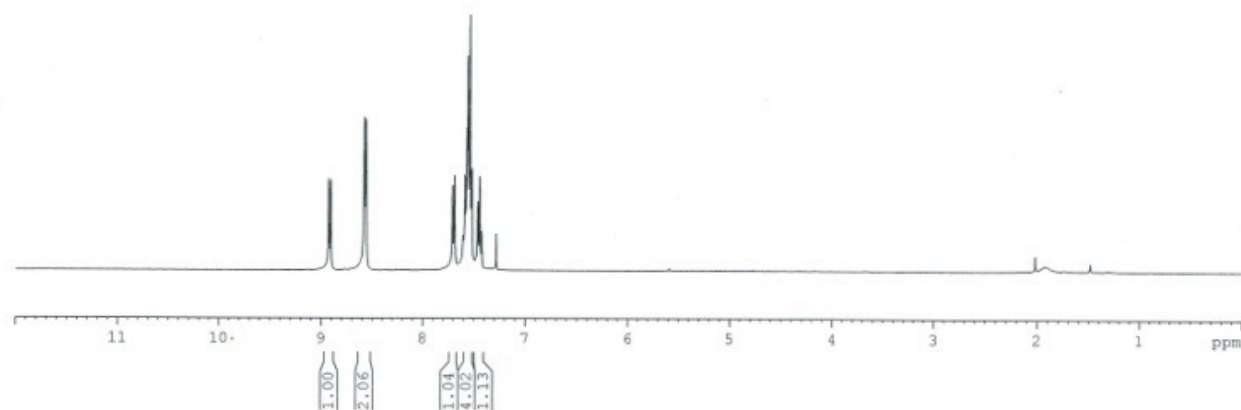
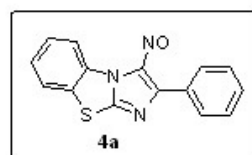
F2 - Acquisition Parameters
 Date_ 20150417
 Time 14.09
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 32768
 SOLVENT CDC13
 NS 1024
 DS 2
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 0.6816244 sec
 RG 37.83
 DW 20.800 usec
 DE 6.50 usec
 TE 298.7 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

----- CHANNEL f1 -----
 NUC1 13C
 P1 8.90 usec
 PLW1 54.00000000 W
 SFO1 100.6278588 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PLW2 12.00000000 W
 PLW12 0.40792999 W
 PLW13 0.26107001 W
 SFO2 400.1516006 MHz

F2 - Processing parameters
 SI 16384
 SF 100.6178026 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

8.929
8.908
8.580
8.563
7.706
7.687
7.604
7.601
7.594
7.586
7.578
7.568
7.559
7.539
7.520
7.463
7.443
7.424
7.281

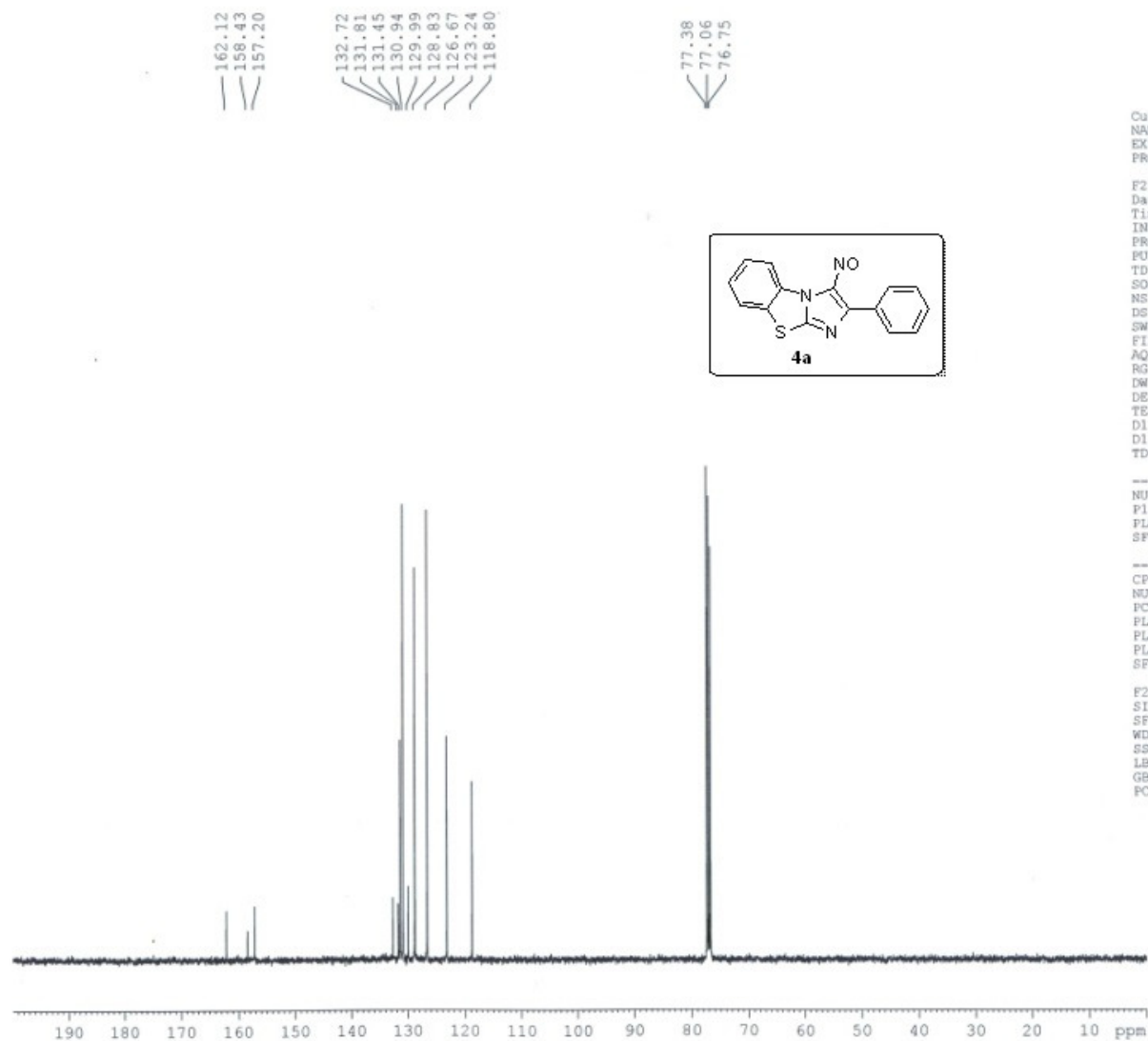


Current Data Parameters
NAME Dr. A HAJRA 2014
EXPNO 1286
PROCNO 1

F2 - Acquisition Parameters
Date_ 20141217
Time 20.11
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.250967 Hz
AQ 1.9923444 sec
RG 93.46
DW 60.800 usec
DE 6.50 usec
TE 296.4 K
D1 1.00000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.75 usec
PLW1 11.99499989 W
SFO1 400.1524711 MHz

F2 - Processing parameters
SI 16384
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



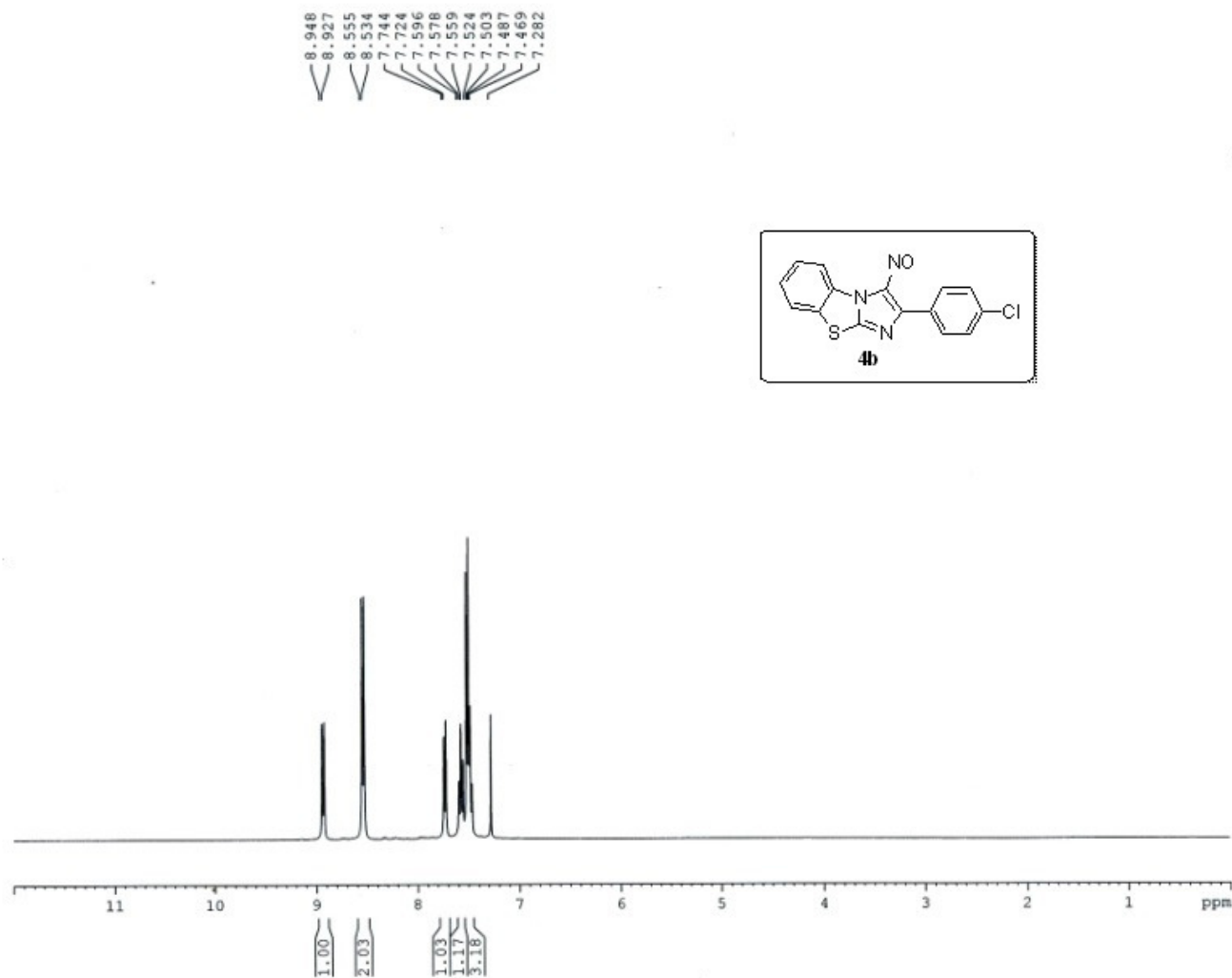
Current Data Parameters
 NAME Dr. A HAJRA 2014
 EXPNO 1287
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20141217
 Time 20.38
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 512
 DS 2
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 0.6816244 sec
 RG 93.46
 DW 20.800 usec
 DE 6.50 usec
 TE 296.9 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

----- CHANNEL f1 -----
 NUC1 13C
 P1 8.90 usec
 PLW1 54.00000000 W
 SFO1 100.6278588 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PLW2 12.00000000 W
 PLW12 0.40792999 W
 PLW13 0.26107001 W
 SFO2 400.1516006 MHz

F2 - Processing parameters
 SI 16384
 SF 100.6177980 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

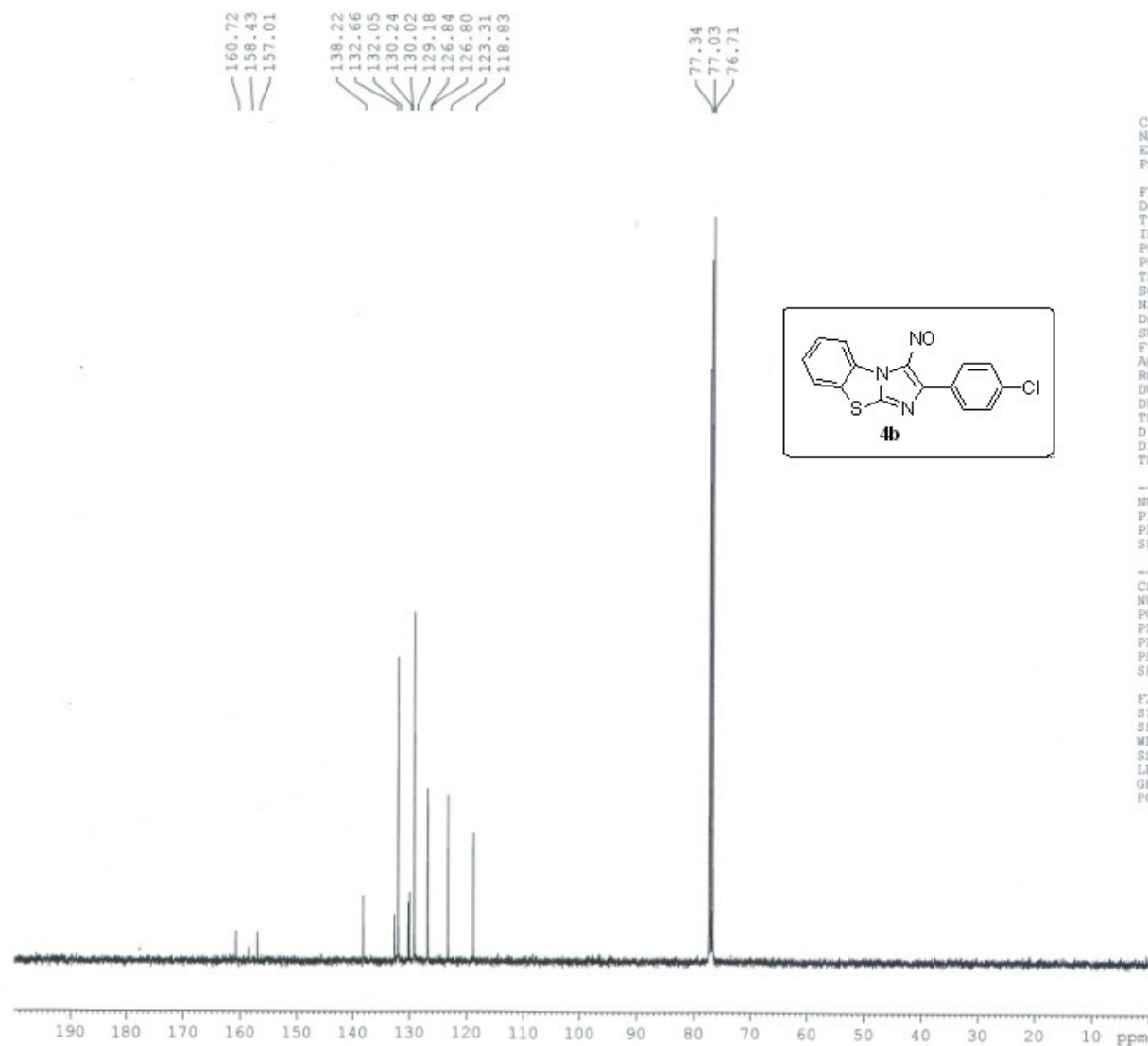


Current Data Parameters
 NAME Dr. A HAJRA 2014
 EXPNO 1339
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20150102
 Time_ 11.22
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 24
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 135.7
 DW 60.800 usec
 DE 6.50 usec
 TE 294.6 K
 D1 1.00000000 sec
 TD0 1

----- CHANNEL f1 -----
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Current Data Parameters
NAME Dr. A RAJRA 2014
EXPNO 1340
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150102
Time 12.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 1024
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 135.7
DM 20.800 usec
DE 6.50 usec
TE 296.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177960 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

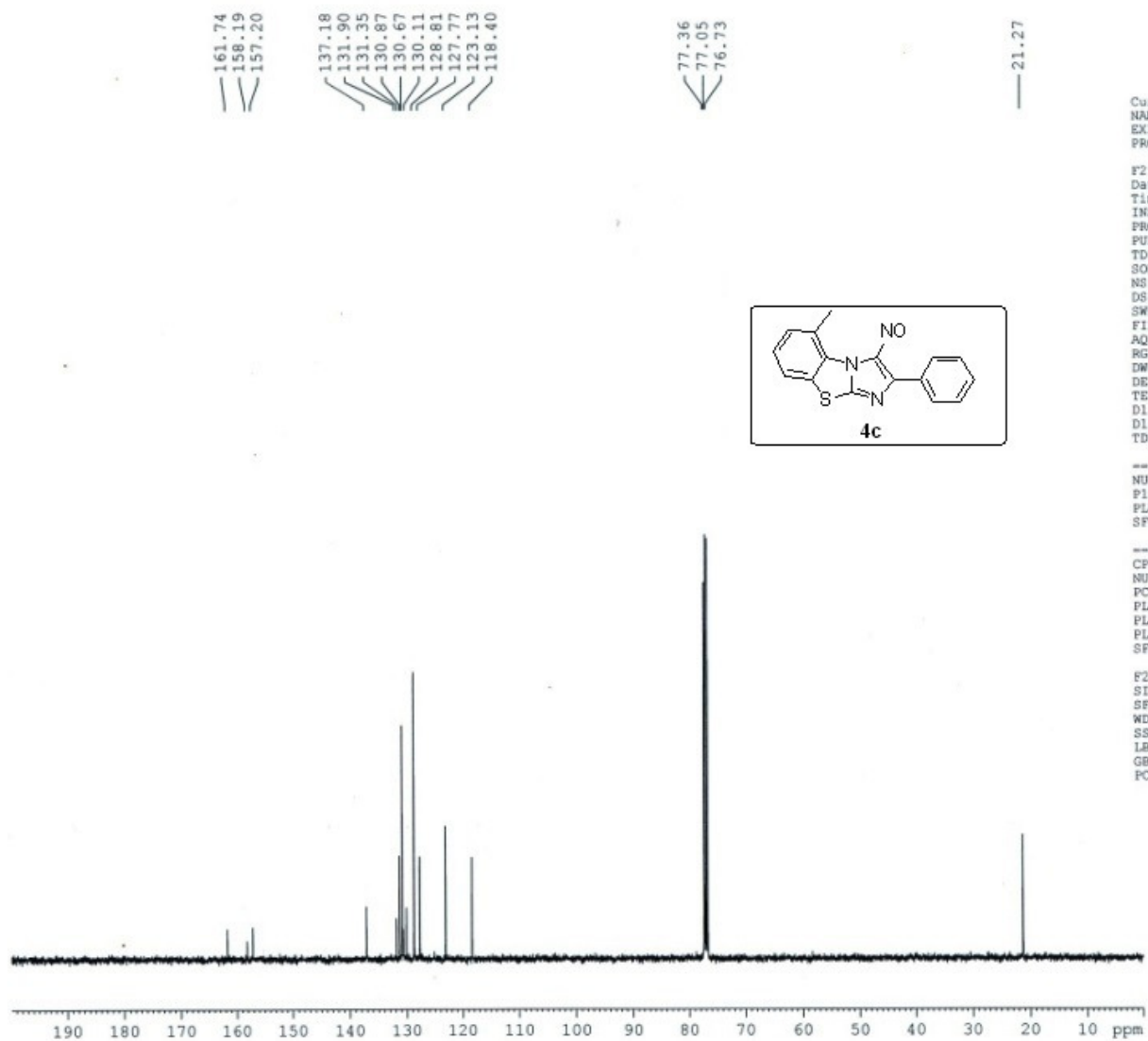


Current Data Parameters
 NAME Dr. A HAJRA 2014
 EXPNO 1234
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20141208
 Time 17.31
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 106.66
 DW 60.800 usec
 DE 6.50 usec
 TE 296.2 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



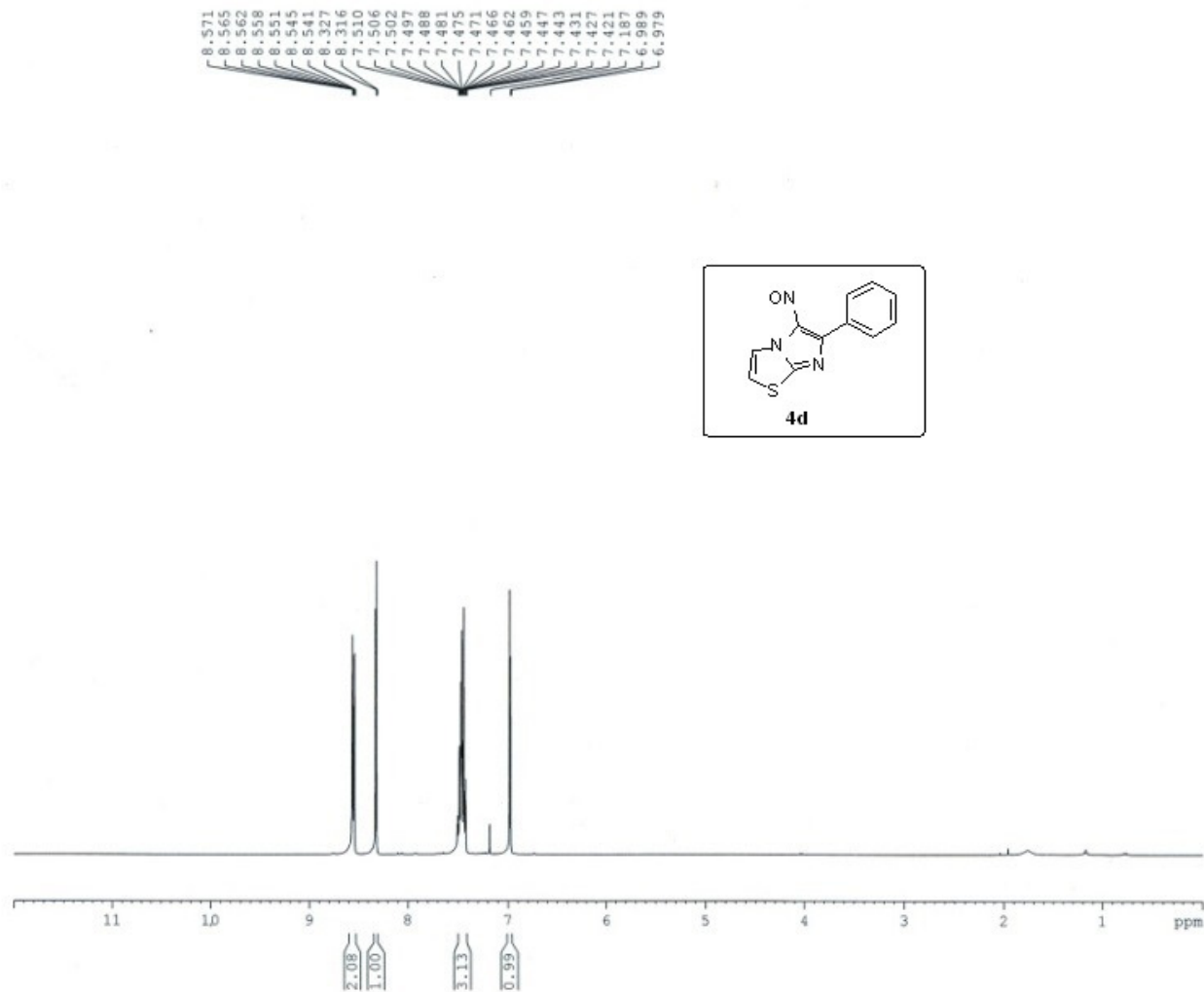
Current Data Parameters
NAME Dr. A HAJRA 2014
EXPNO 1240
PROCNO 1

F2 - Acquisition Parameters
Date_ 20141208
Time 20.44
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 400
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 106.66
DW 20.800 usec
DE 6.50 usec
TE 297.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.48792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177980 MHz
WDM EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

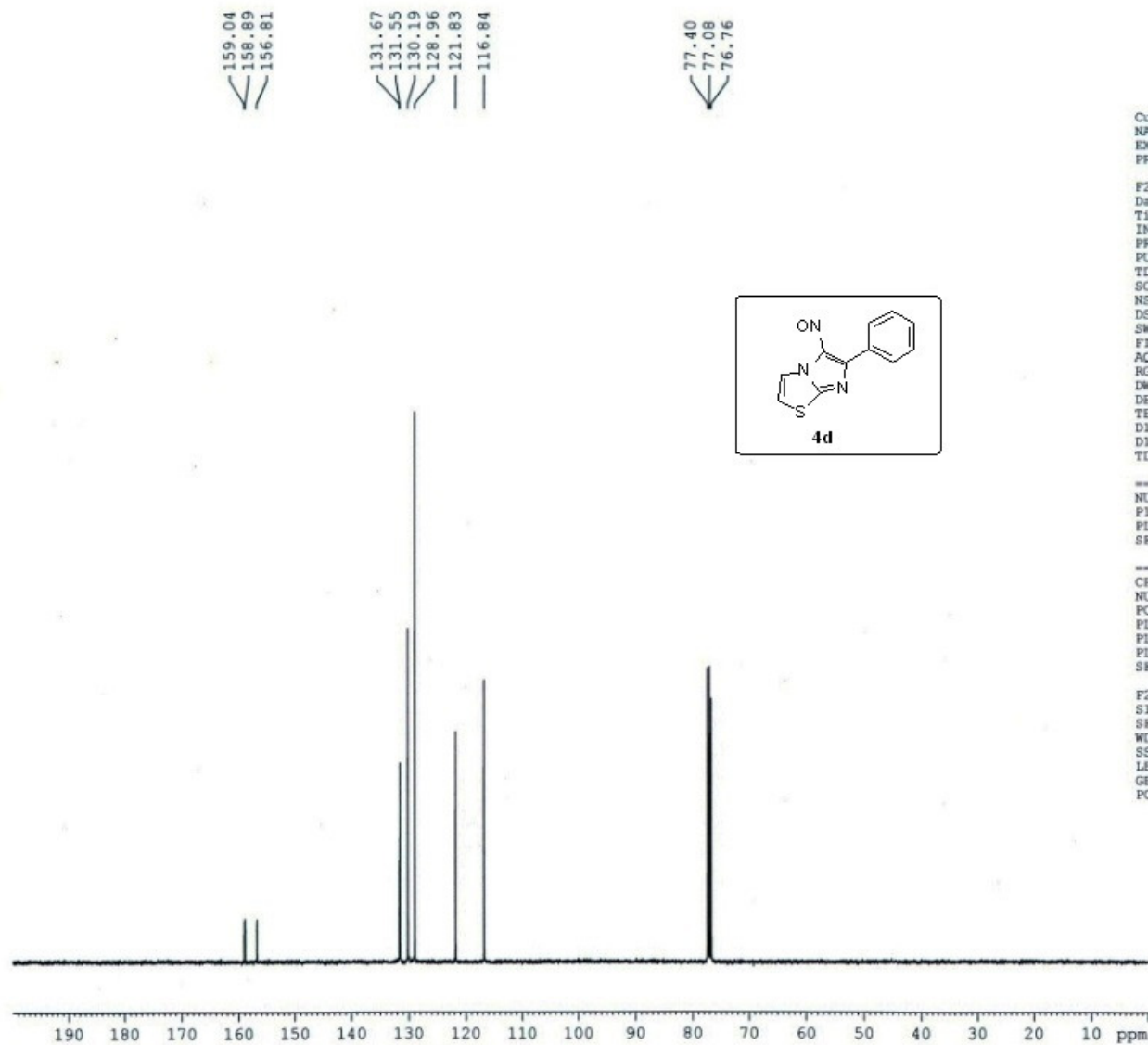


Current Data Parameters
 NAME Dr. A HAJRA 2014
 EXPNO 1293
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20141219
 Time 19.49
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 87.66
 DW 60.800 usec
 DE 6.50 usec
 TE 296.1 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500380 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



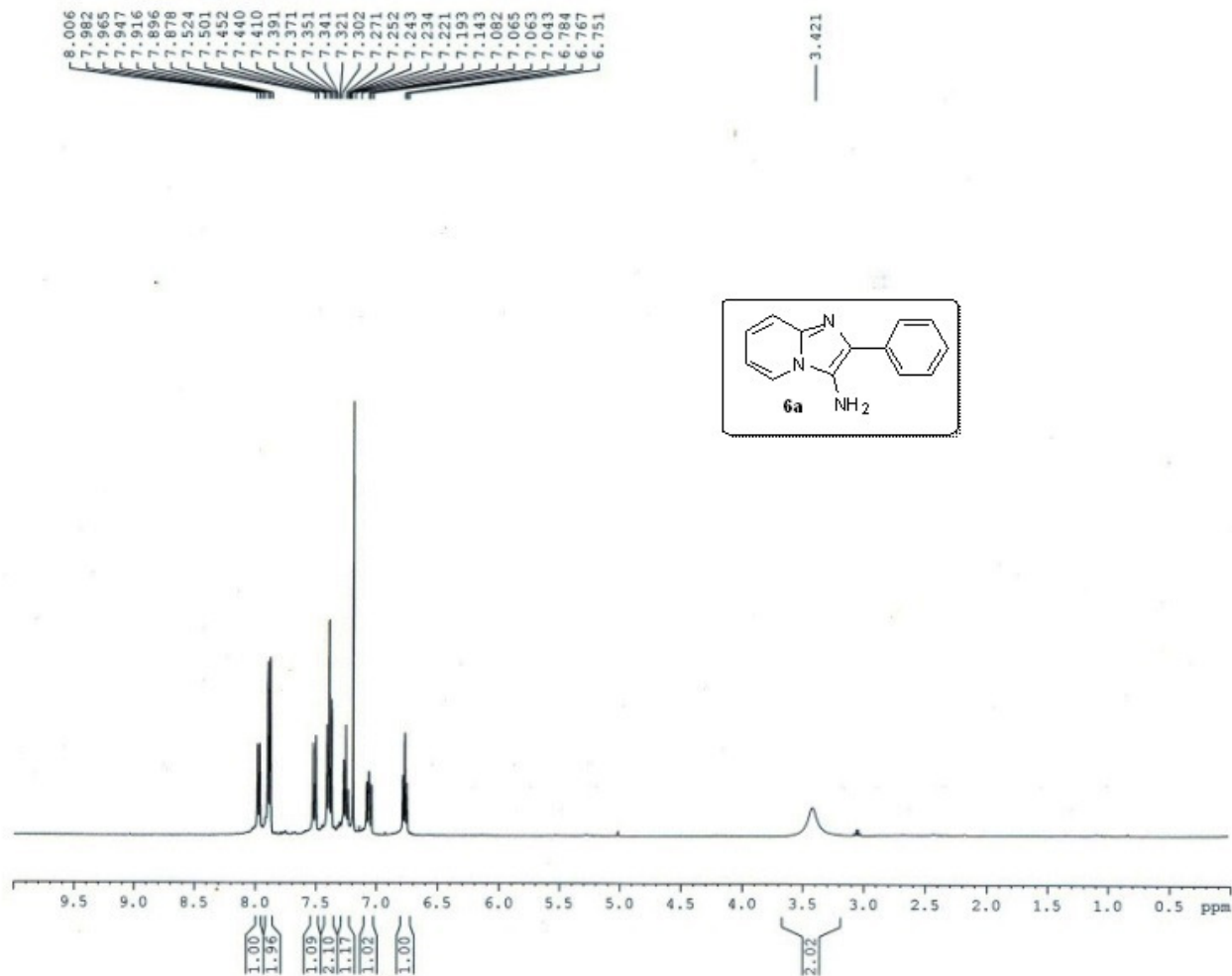
Current Data Parameters
 NAME Dr. A HAJRA 2014
 EXPNO 1294
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20141219
 Time_ 20.15
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 512
 DS 2
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 0.6816244 sec
 RG 87.66
 DW 20.800 usec
 DE 6.50 usec
 TE 297.0 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.90 usec
 PLW1 54.00000000 W
 SFO1 100.6278588 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PLW2 12.00000000 W
 PLW12 0.40792999 W
 PLW13 0.26107001 W
 SFO2 400.1516006 MHz

F2 - Processing parameters
 SI 16384
 SF 100.6177980 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

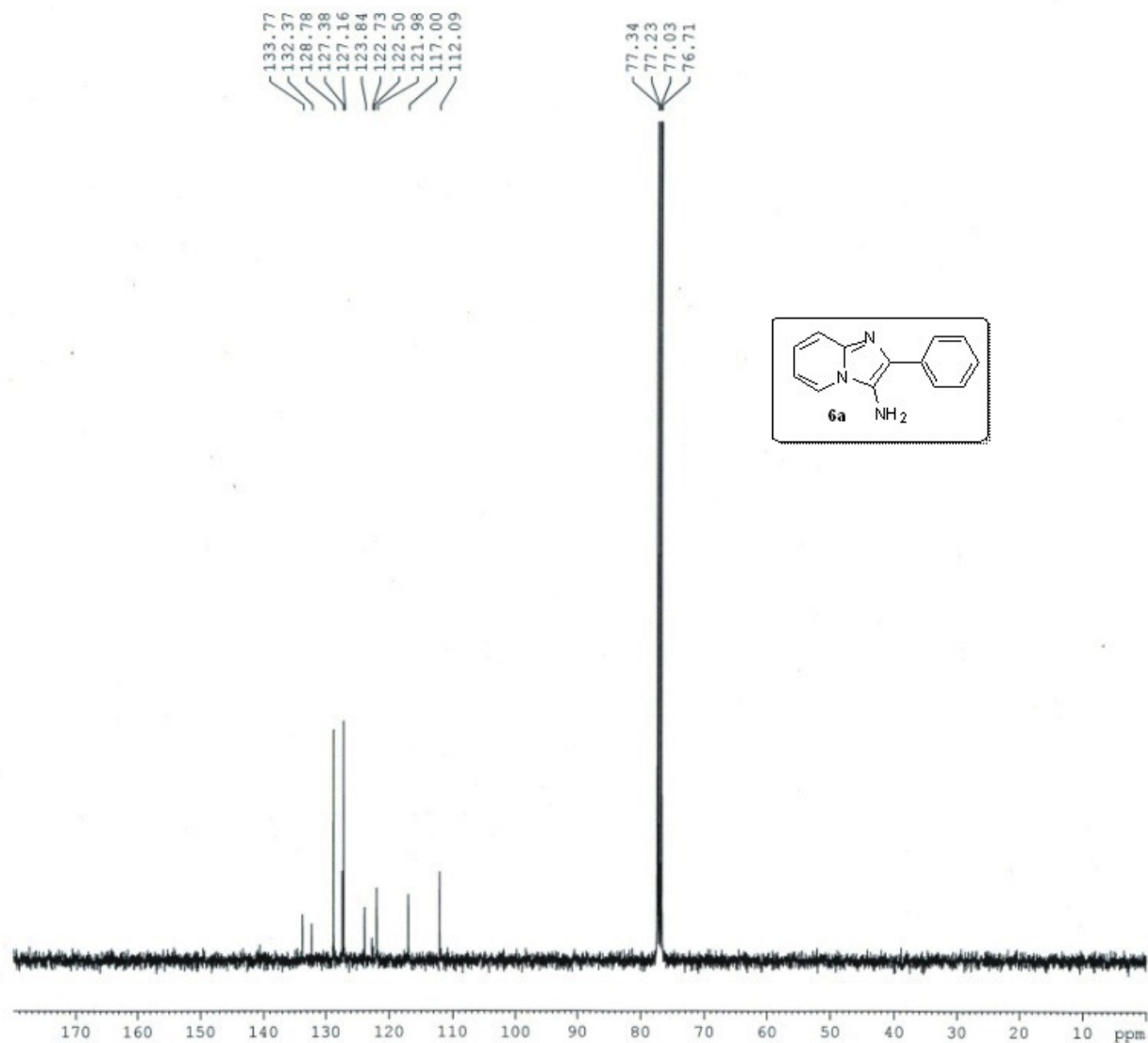


Current Data Parameters
 NAME Dr. A HAJRA 2015
 EXPNO 23
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20150203
 Time_ 11.53
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 32768
 SOLVENT CDC13
 NS 24
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 148.91
 DW 60.800 usec
 DE 6.50 usec
 TE 293.6 K
 D1 1.00000000 sec
 TDO 1

----- CHANNEL f1 -----
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500357 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



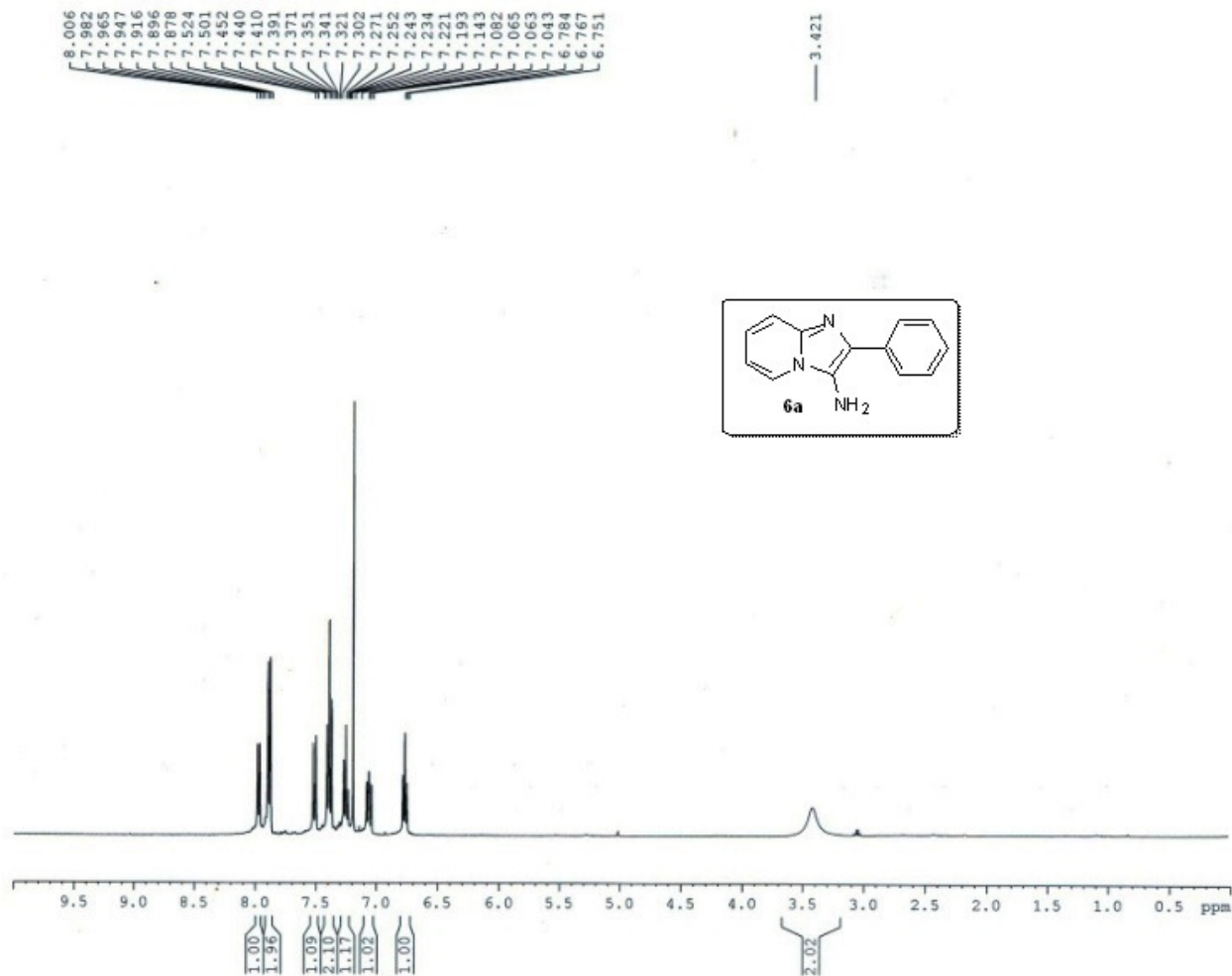
Current Data Parameters
NAME Dr. A HAJRA 2015
EXPNO 27
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150203
Time_ 17.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 1024
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 148.91
DW 20.800 usec
DE 6.50 usec
TE 294.6 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

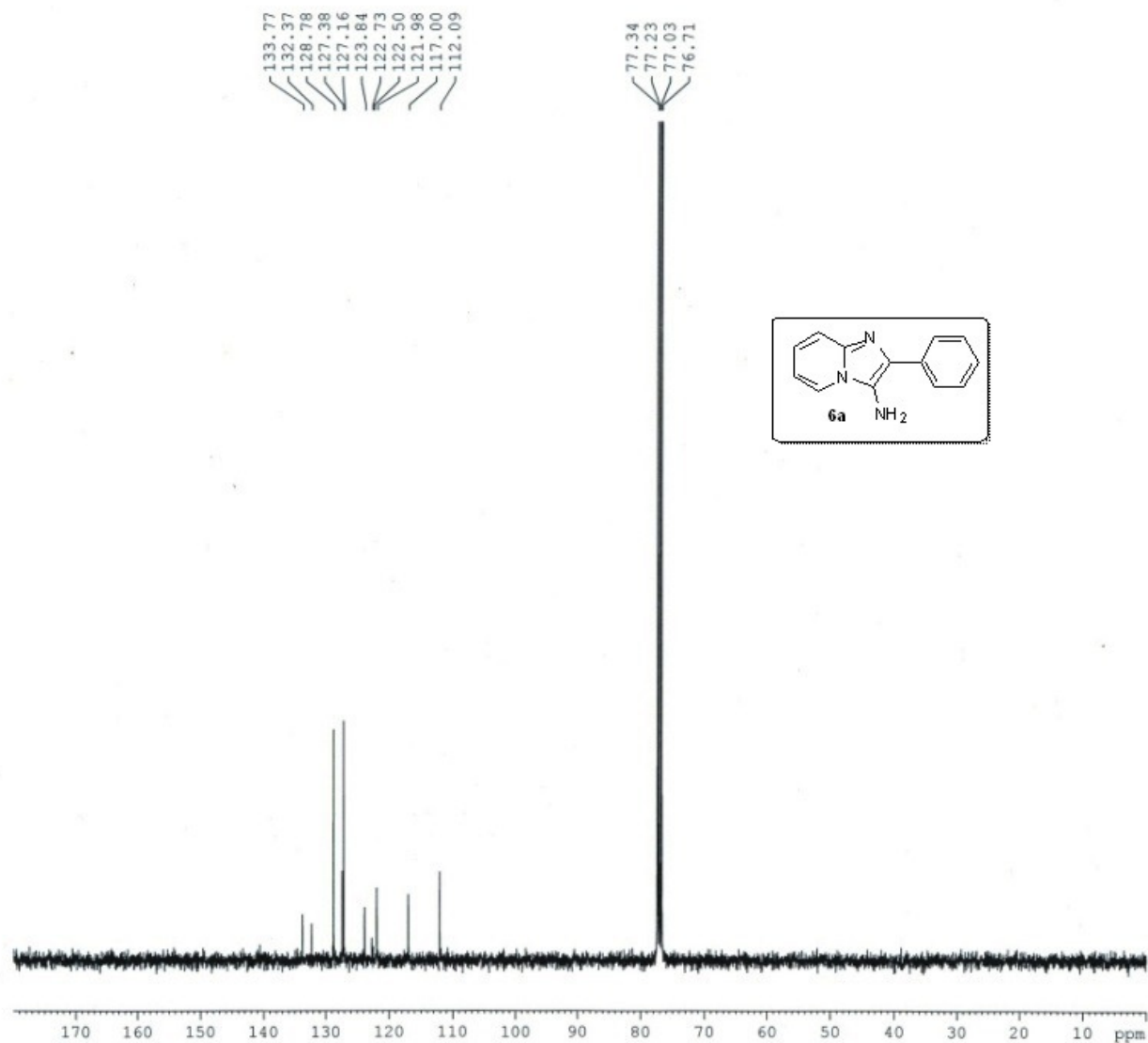


Current Data Parameters
 NAME Dr. A HAJRA 2015
 EXPNO 23
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20150203
 Time_ 11.53
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 32768
 SOLVENT CDC13
 NS 24
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 1.9923444 sec
 RG 148.91
 DW 60.800 usec
 DE 6.50 usec
 TE 293.6 K
 D1 1.00000000 sec
 TDO 1

----- CHANNEL f1 -----
 NUC1 1H
 P1 14.75 usec
 PLW1 11.99499989 W
 SFO1 400.1524711 MHz

F2 - Processing parameters
 SI 16384
 SF 400.1500357 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Current Data Parameters
NAME Dr. A HAJRA 2015
EXPNO 27
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150203
Time_ 17.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 1024
DS 2
SWH 24038.461 Hz
FIDRES 0.733596 Hz
AQ 0.6816244 sec
RG 148.91
DW 20.800 usec
DE 6.50 usec
TE 294.6 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 8.90 usec
PLW1 54.00000000 W
SFO1 100.6278588 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PLW2 12.00000000 W
PLW12 0.40792999 W
PLW13 0.26107001 W
SFO2 400.1516006 MHz

F2 - Processing parameters
SI 16384
SF 100.6177980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40