Supporting Information File 2

for

Intramolecular carbolithiation of *N*-allyl-ynamides: an efficient entry to 1,4-dihydropyridines and pyridines – application to a formal synthesis of sarizotan

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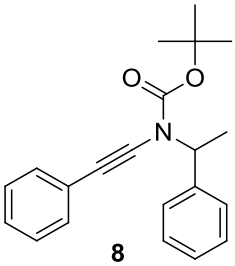
Copies of ^{1}H and ^{13}C NMR spectra for new compounds



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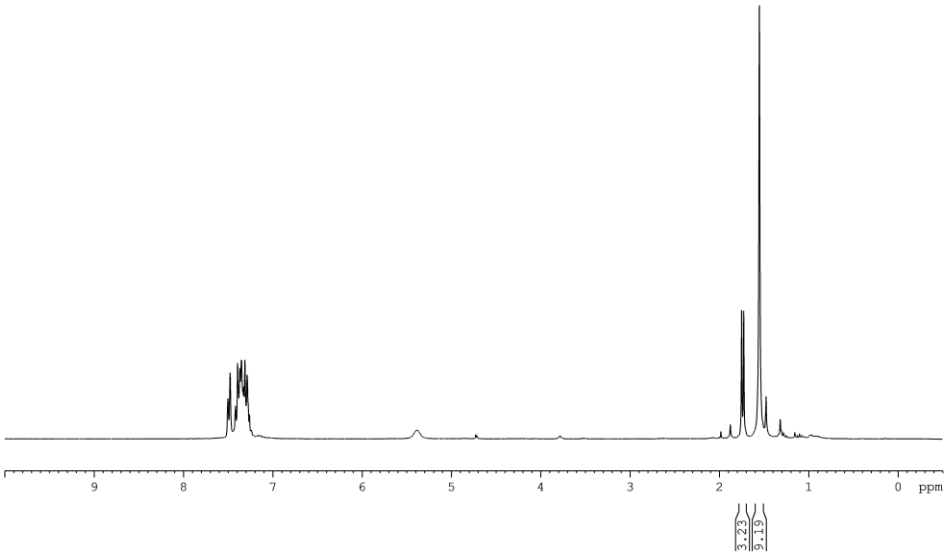

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PROCNO                 1

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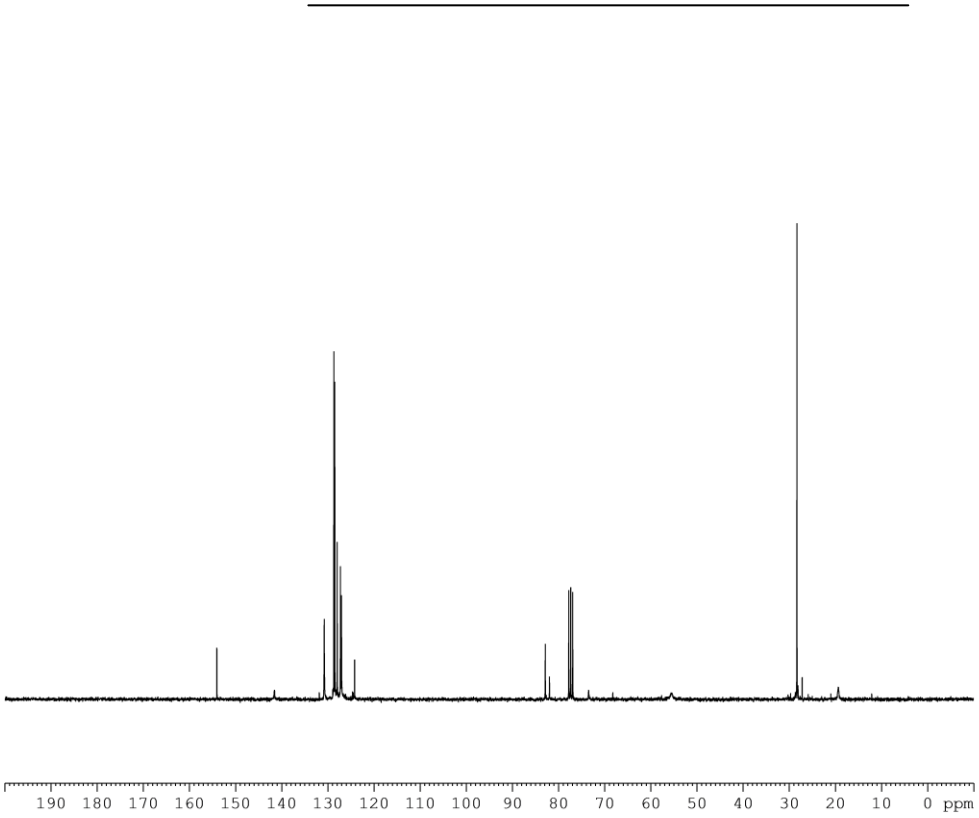
PULPROG            zg30
TD                16384
SOLVENT           CDCl3
NS                   16
DS                    2
SWH           4194.631 Hz
FIDRES        0.256020 Hz
AQ            1.9530228 sec
RG                 50.8
DW              119.200 usec
DE                6.50 usec
TE               295.2 K
D1            1.00000000 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

======== CHANNEL f1 ========
NUC1                 1H
P1                 6.70 usec
PL1                0.00 dB
SFO1        300.1319508 MHz

F2 - Processing parameters
SI                32768
SF           300.1300016 MHz
WDW                  EM
SSB                   0
LB                 0.30 Hz
GB                    0
PC                 1.00

1D NMR plot parameters
CX                20.00 cm
CY                 7.51 cm
F1P               10.000 ppm
F1              3001.30 Hz
F2P               -0.500 ppm
F2              -150.06 Hz
PPMCM            0.52500 ppm/cm
HZCM           157.56825 Hz/cm
```



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PROCNO                 1

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PULPROG          zgpg30
TD                32768
SOLVENT           CDCl3
NS                 1024
DS                    4
SWH           18115.941 Hz
FIDRES         0.552855 Hz
AQ            0.9044468 sec
RG                 2048
DW               27.600 usec
DE                10.00 usec
TE                294.8 K
D1            2.00000000 sec
d11           0.03000000 sec
DELTA         1.89999998 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

======== CHANNEL f1 ========
NUC1                13C
P1                 8.20 usec
PL1               -6.00 dB
SFO1         75.4756731 MHz

======== CHANNEL f2 ========
CPDPRG2         waltz16
NUC2                 1H
PCPD2             80.00 usec
PL2                0.00 dB
PL12              21.54 dB
PL13              21.54 dB
SFO2        300.1312005 MHz

F2 - Processing parameters
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SF           75.4677297 MHz
WDW                  EM
SSB                   0
LB                 1.00 Hz
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PC                 1.40
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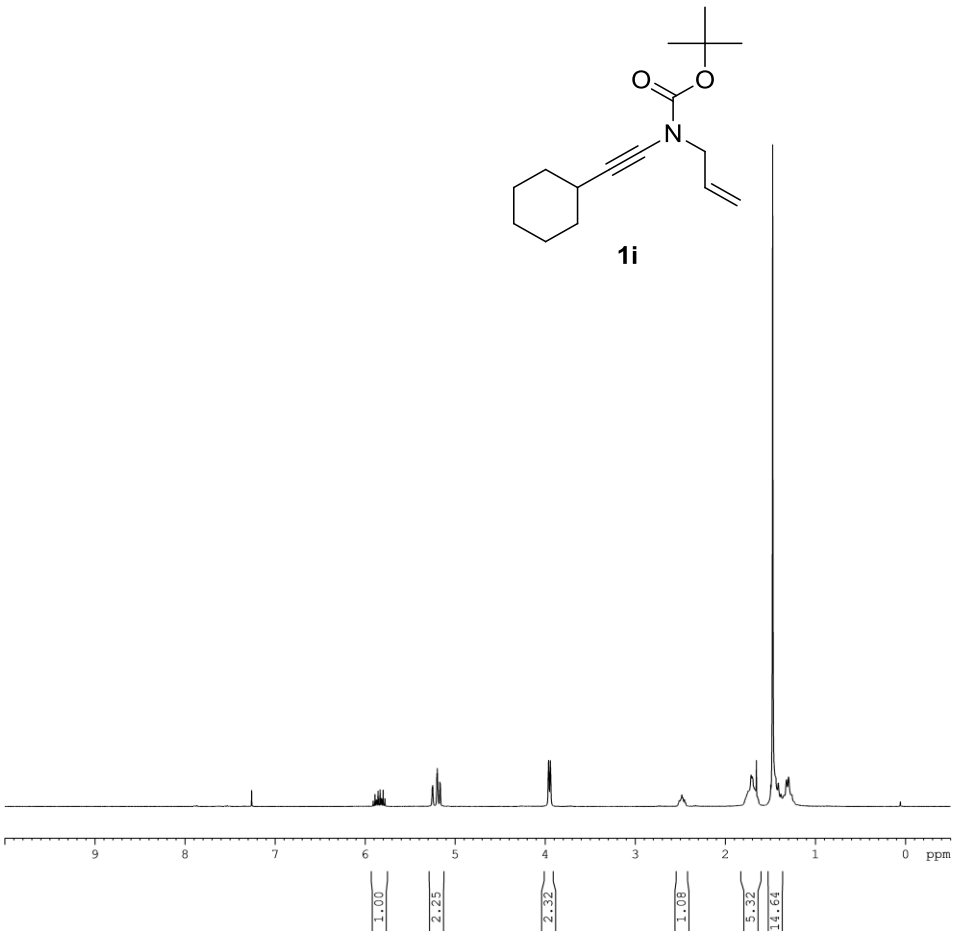
1i
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EXPNO 10
PROCNO 1
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Time 3.58
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PULPROG zg30
TD 32768
SOLVENT C6D6
NS 16
DS 0
SWH 6313.131 Hz
FIDRES 0.192661 Hz
AQ 2.5952756 sec
RG 80.6
DW 79.200 usec
DE 6.50 usec
TE 293.8 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec
======== CHANNEL f1 ========
NUC1 1H
P1 6.20 usec
PL1 0.00 dB
SFO1 300.1328512 MHz
F2 - Processing parameters
SI 32768
SF 300.1300180 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 20.00 cm
CY 149.34 cm
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F1 1050.45 Hz
F2P -0.500 ppm
F2 -150.07 Hz
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HZCM 60.02600 Hz/cm
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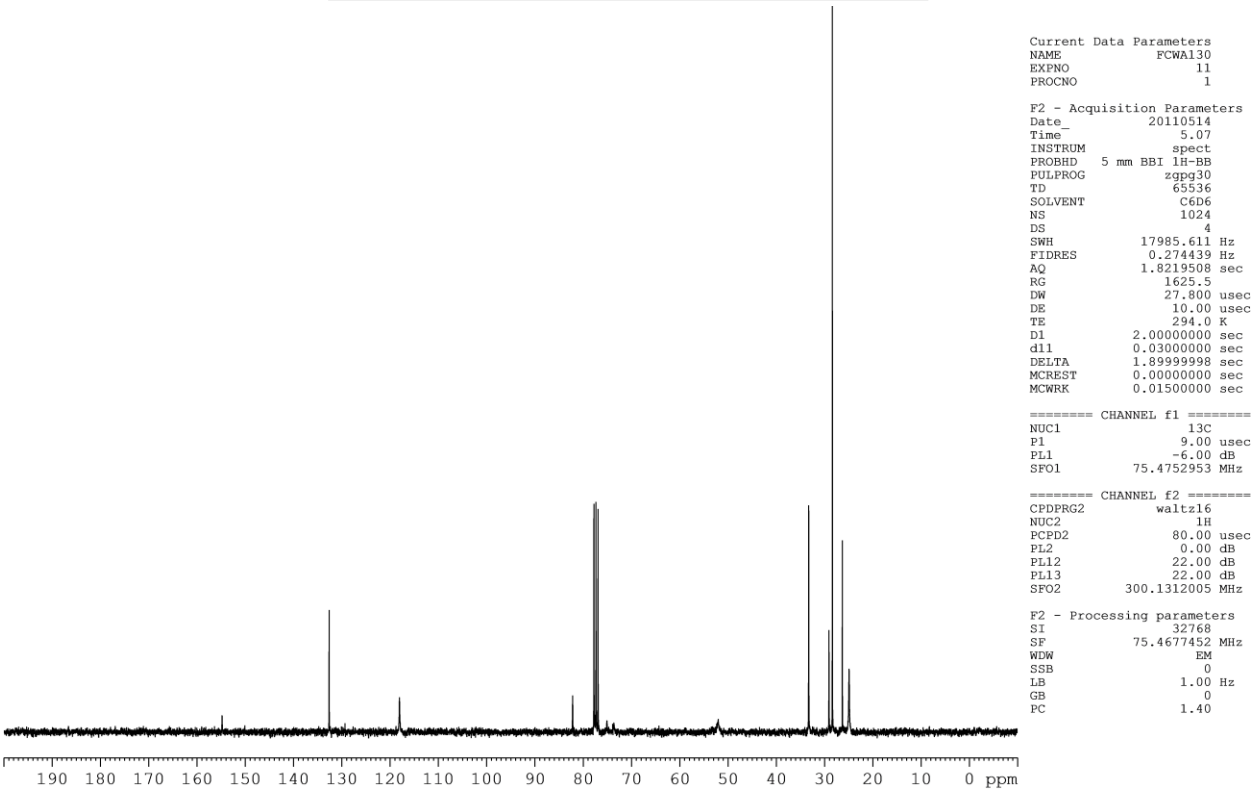
1.00 2.25 2.32 1.08 5.32 14.64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EXPNO 11
PROCNO 1
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PROBHD 5 mm BBI 1H-BB
PULPROG zgpg30
TD 65536
SOLVENT C6D6
NS 1024
DS 4
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 1625.5
DW 27.800 usec
DE 10.00 usec
TE 294.0 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec
======== CHANNEL f1 ========
NUC1 13C
P1 9.00 usec
PL1 -6.00 dB
SFO1 75.4752953 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz
F2 - Processing parameters
SI 32768
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WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
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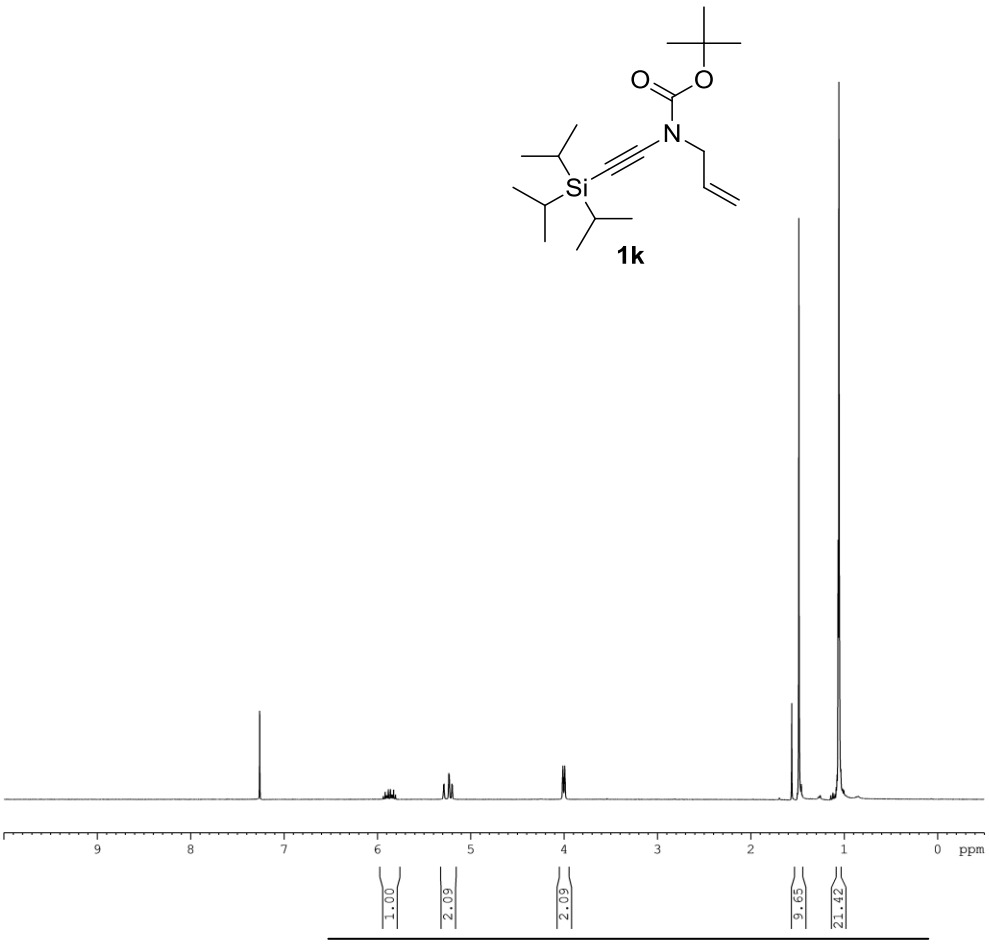


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PROCNO                 1

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Time                2.52
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PROBHD   5 mm BBI 1H-BB
PULPROG             zg30
TD                 32768
SOLVENT            CDCl3
NS                    16
DS                     0
SWH             6313.131 Hz
FIDRES          0.192661 Hz
AQ             2.5952756 sec
RG                 456.1
DW                79.200 usec
DE                 6.50 usec
TE                294.5 K
D1           1.00000000 sec
MCREST       0.00000000 sec
MCWRK        0.01500000 sec

======== CHANNEL f1 ========
NUC1                  1H
P1                  6.20 usec
PL1                 0.00 dB
SFO1        300.1328512 MHz

F2 - Processing parameters
SI                 32768
SF          300.1300260 MHz
WDW                   EM
SSB                    0
LB                  0.10 Hz
GB                     0
PC                  1.00
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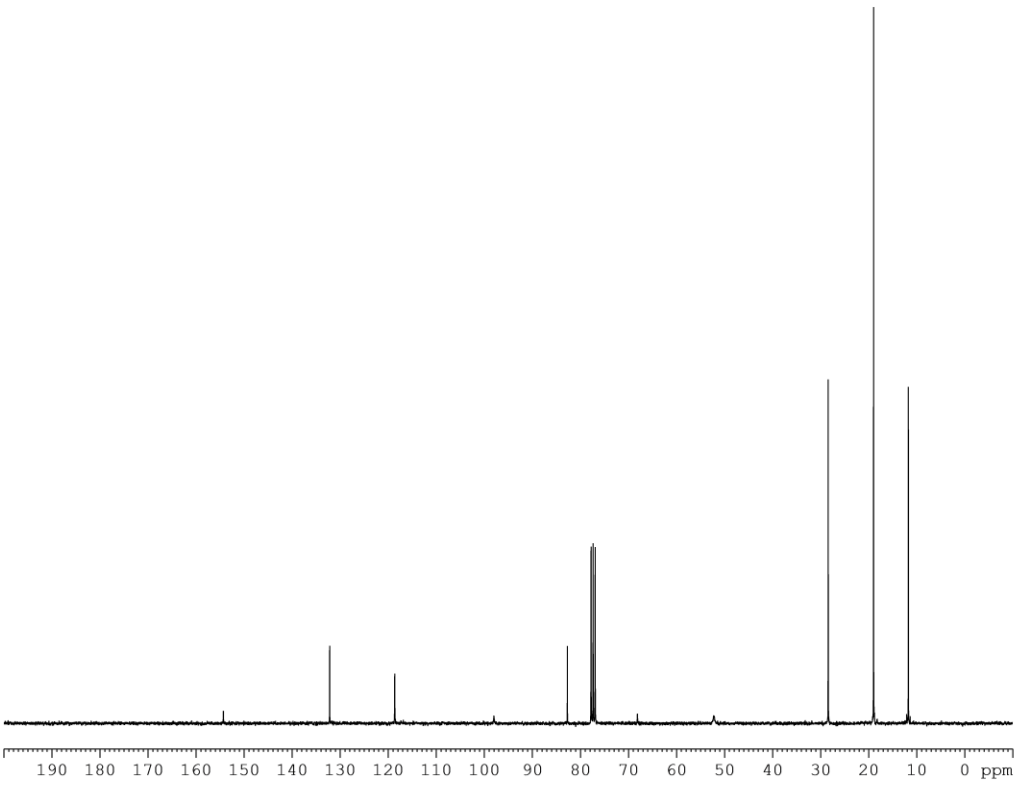


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EXPNO                 10
PROCNO                 1

F2 - Acquisition Parameters
Date_           20110628
Time               17.31
INSTRUM            spect
PROBHD   5 mm BBI 1H-BB
PULPROG          zgpg30
TD                 65536
SOLVENT            CDCl3
NS                  2000
DS                     4
SWH            17985.611 Hz
FIDRES          0.274439 Hz
AQ             1.8219508 sec
RG                1625.5
DW                27.800 usec
DE                10.00 usec
TE                297.6 K
D1           2.00000000 sec
d11          0.03000000 sec
DELTA        1.89999998 sec
MCREST       0.00000000 sec
MCWRK        0.01500000 sec

======== CHANNEL f1 ========
NUC1                 13C
P1                  9.00 usec
PL1                -6.00 dB
SFO1         75.4752953 MHz

======== CHANNEL f2 ========
CPDPRG2          waltz16
NUC2                  1H
PCPD2              80.00 usec
PL2                 0.00 dB
PL12               22.00 dB
PL13               22.00 dB
SFO2        300.1312005 MHz

F2 - Processing parameters
SI                 32768
SF          75.4677490 MHz
WDW                   EM
SSB                    0
LB                  1.00 Hz
GB                     0
PC                  1.40
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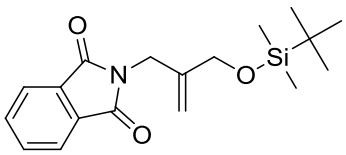

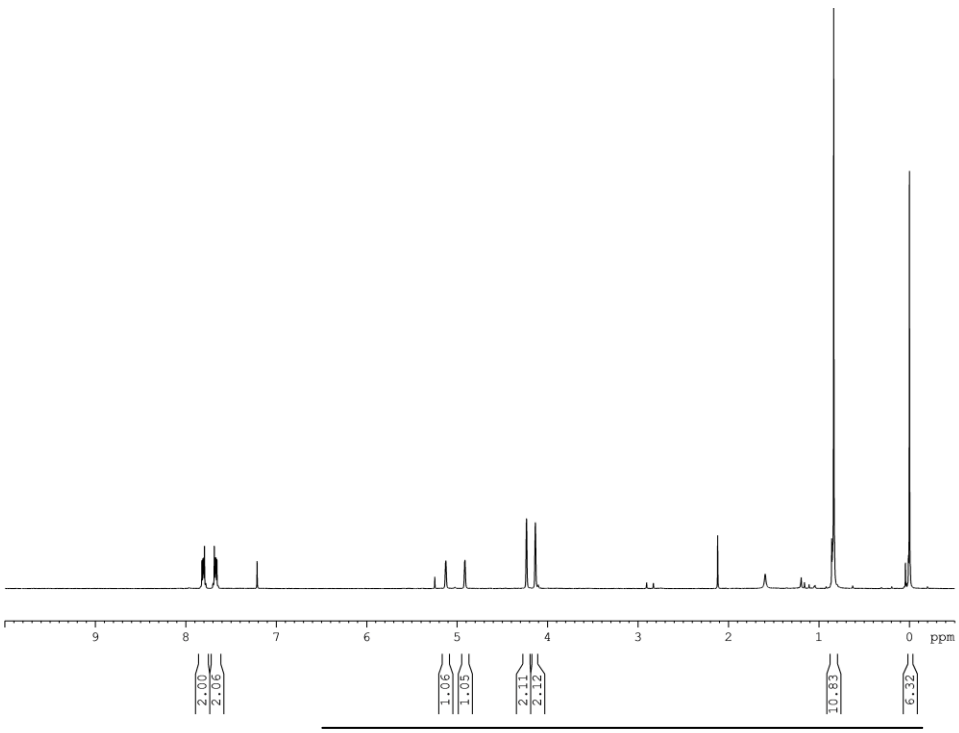


```
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EXPNO                       10
PROCNO                       1

F2 - Acquisition Parameters
Date_               20121014
Time_                   4.03
INSTRUM                spect
PROBHD   5 mm BBI 1H-BB
PULPROG                 zg30
TD                     16384
SOLVENT                CDCl3
NS                        16
DS                         2
SWH                 4194.631 Hz
FIDRES              0.256020 Hz
AQ                  1.9530228 sec
RG                      287.4
DW                    119.200 usec
DE                      6.50 usec
TE                     292.4 K
D1                  1.00000000 sec
MCREST              0.00000000 sec
MCWRK               0.01500000 sec

======== CHANNEL f1 ========
NUC1                       1H
P1                       6.70 usec
PL1                      0.00 dB
SFO1             300.1319508 MHz

F2 - Processing parameters
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SF                300.1300209 MHz
WDW                          EM
SSB                           0
LB                         0.30 Hz
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PC                         1.00
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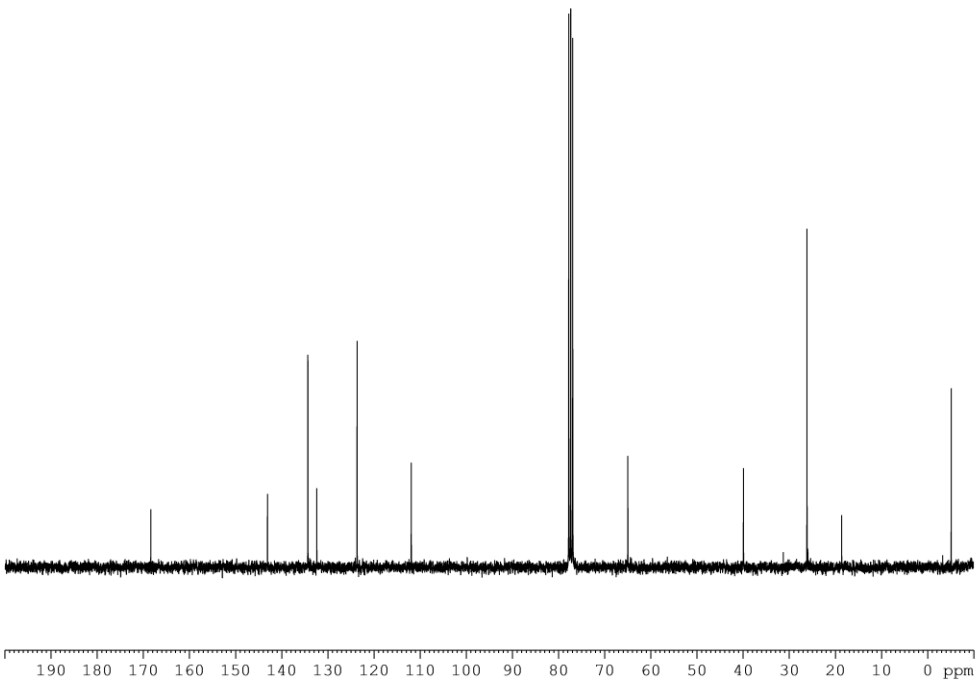


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Current Data Parameters
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EXPNO                       12
PROCNO                       1

F2 - Acquisition Parameters
Date_               20121014
Time_                   5.09
INSTRUM                spect
PROBHD   5 mm BBI 1H-BB
PULPROG             zgpg30
TD                     32768
SOLVENT                CDCl3
NS                      1024
DS                         4
SWH                18115.941 Hz
FIDRES              0.552855 Hz
AQ                  0.9044468 sec
RG                      2048
DW                    27.600 usec
DE                     10.00 usec
TE                     292.4 K
D1                  2.00000000 sec
d11                 0.03000000 sec
DELTA               1.89999998 sec
MCREST              0.00000000 sec
MCWRK               0.01500000 sec

======== CHANNEL f1 ========
NUC1                      13C
P1                       8.20 usec
PL1                     -6.00 dB
SFO1             75.4756731 MHz

======== CHANNEL f2 ========
CPDPRG2                waltz16
NUC2                       1H
PCPD2                   80.00 usec
PL2                      0.00 dB
PL12                    21.54 dB
PL13                    21.54 dB
SFO2             300.1312005 MHz

F2 - Processing parameters
SI                        32768
SF                75.4677490 MHz
WDW                          EM
SSB                           0
LB                         1.00 Hz
GB                            0
PC                         1.40
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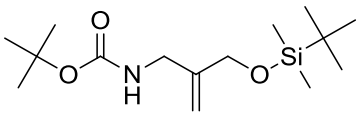

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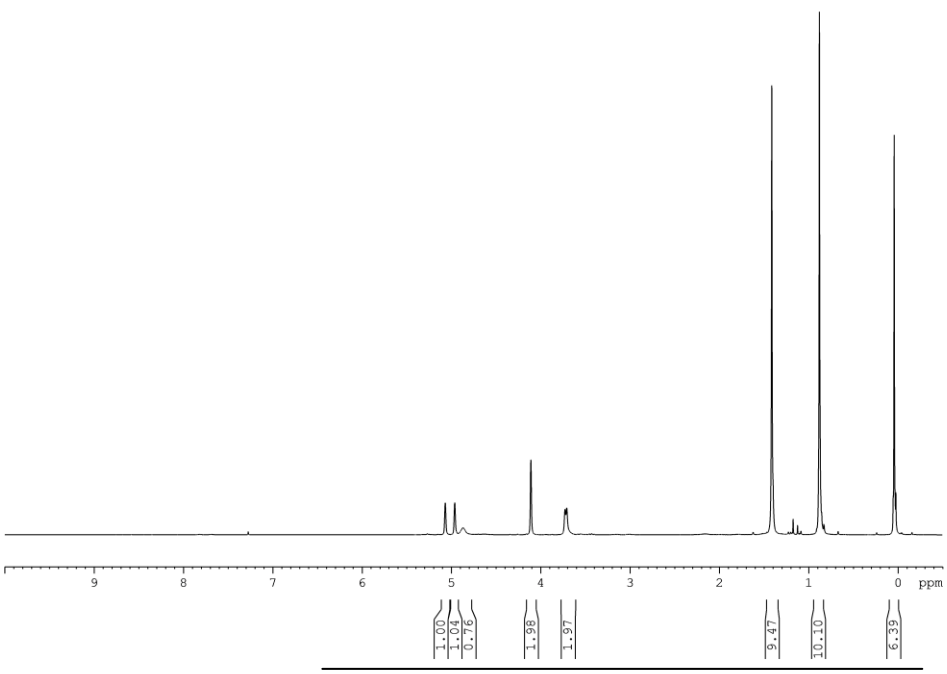


```
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EXPNO                  1
PROCNO                 1

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Date_           20121011
Time              10.49
INSTRUM           spect
PROBHD   5 mm BBI 1H-BB
PULPROG            zg30
TD                16384
SOLVENT           CDCl3
NS                   16
DS                    2
SWH            4194.631 Hz
FIDRES        0.256020 Hz
AQ            1.9530228 sec
RG                 35.9
DW              119.200 usec
DE                6.50 usec
TE              293.6 K
D1            1.00000000 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

======== CHANNEL f1 ========
NUC1                 1H
P1                 6.70 usec
PL1                0.00 dB
SFO1         300.1319508 MHz

F2 - Processing parameters
SI                32768
SF           300.1300016 MHz
WDW                  EM
SSB                   0
LB                 0.30 Hz
GB                    0
PC                 1.00

1D NMR plot parameters
CX                20.00 cm
CY                10.00 cm
F1P               10.000 ppm
F1              3001.30 Hz
F2P               -0.500 ppm
F2              -150.06 Hz
PPMCM             0.52500 ppm/cm
HZCM            157.56825 Hz/cm
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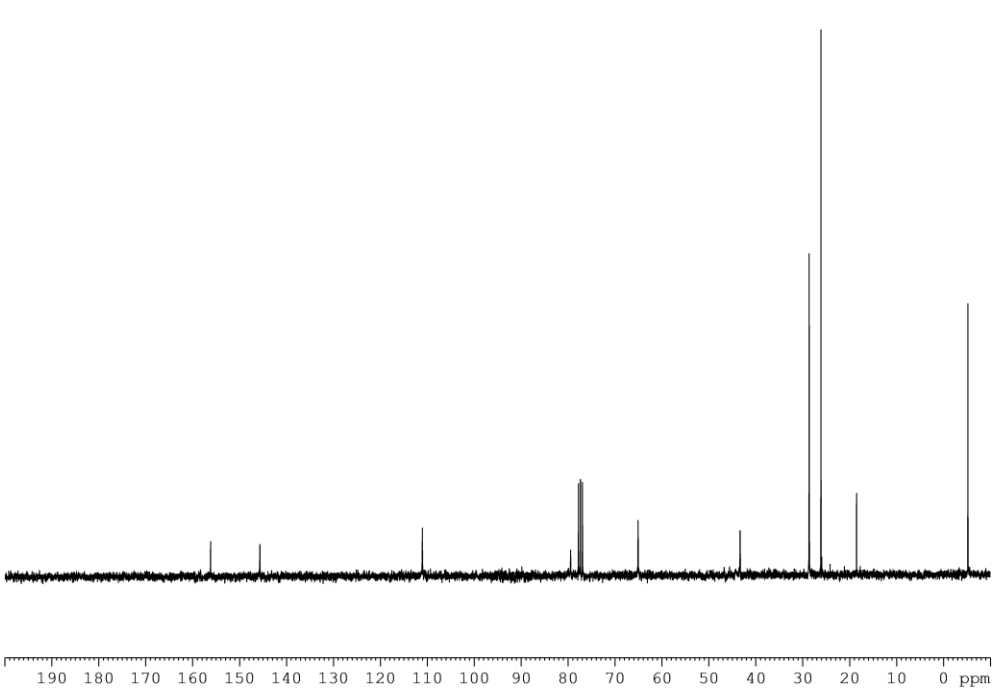


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PROCNO                 1

F2 - Acquisition Parameters
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Time              10.53
INSTRUM           spect
PROBHD   5 mm BBI 1H-BB
PULPROG          zgpg30
TD                32768
SOLVENT           CDCl3
NS                   55
DS                    4
SWH           18115.941 Hz
FIDRES         0.552855 Hz
AQ            0.9044468 sec
RG                 2048
DW              27.600 usec
DE                10.00 usec
TE              293.6 K
D1            2.00000000 sec
d11           0.03000000 sec
DELTA         1.89999998 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

======== CHANNEL f1 ========
NUC1                 13C
P1                 8.20 usec
PL1               -6.00 dB
SFO1         75.4756731 MHz

======== CHANNEL f2 ========
CPDPRG2          waltz16
NUC2                 1H
PCPD2             80.00 usec
PL2                0.00 dB
PL12              21.54 dB
PL13              21.54 dB
SFO2         300.1312005 MHz

F2 - Processing parameters
SI                32768
SF           75.4677490 MHz
WDW                  EM
SSB                   0
LB                 1.00 Hz
GB                    0
PC                 1.40

1D NMR plot parameters
CX                20.00 cm
CY                 9.41 cm
F1P              200.000 ppm
F1             15093.55 Hz
F2P              -10.000 ppm
F2              -754.68 Hz
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HZCM           792.41138 Hz/cm
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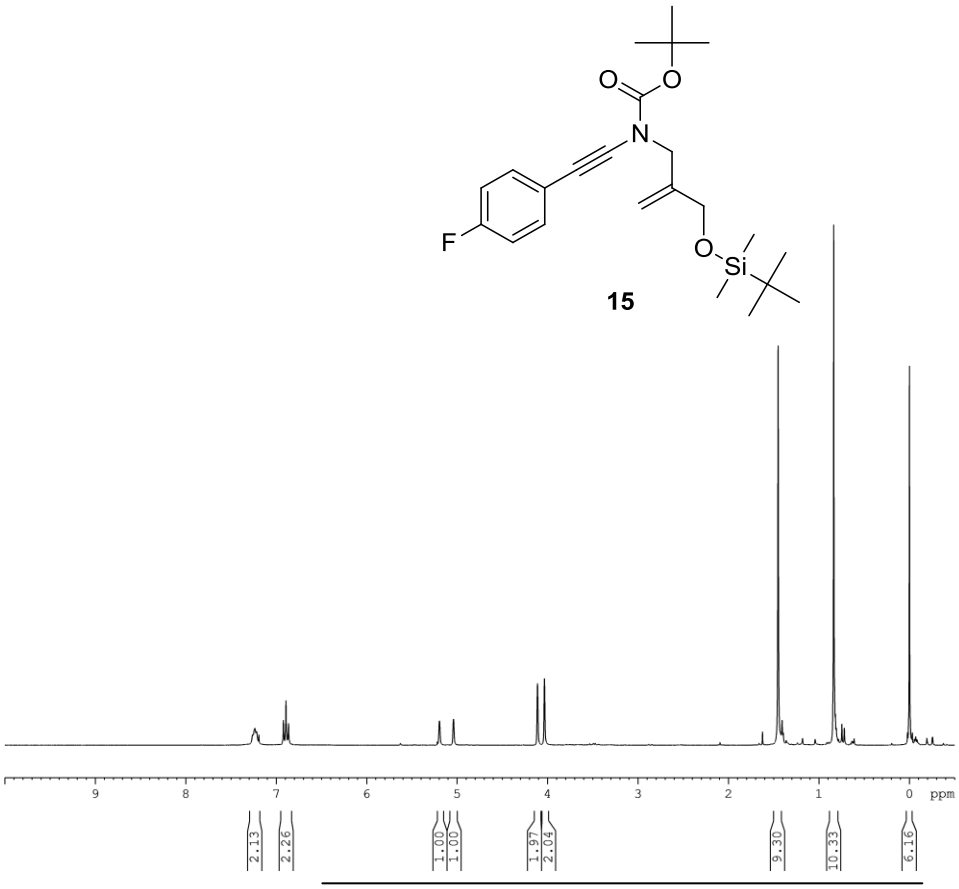


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Current Data Parameters
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EXPNO                  10
PROCNO                  1

F2 - Acquisition Parameters
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Time                17.24
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PULPROG              zg30
TD                  16384
SOLVENT             CDCl3
NS                     16
DS                      2
SWH              4194.631 Hz
FIDRES           0.256020 Hz
AQ               1.9530228 sec
RG                     64
DW                119.200 usec
DE                  6.50 usec
TE                 292.0 K
D1             1.00000000 sec
MCREST         0.00000000 sec
MCWRK          0.01500000 sec

======== CHANNEL f1 ========
NUC1                   1H
P1                   6.70 usec
PL1                  0.00 dB
SFO1         300.1319508 MHz

F2 - Processing parameters
SI                  32768
SF           300.1300268 MHz
WDW                    EM
SSB                     0
LB                   0.30 Hz
GB                      0
PC                   1.00
```



```
Current Data Parameters
NAME            fc41wa512
EXPNO                  14
PROCNO                  1

F2 - Acquisition Parameters
Date_            20121014
Time                21.54
INSTRUM             spect
PROBHD   5 mm BBI 1H-BB
PULPROG           zgpg30
TD                  32768
SOLVENT             CDCl3
NS                   2000
DS                      4
SWH             18115.941 Hz
FIDRES           0.552855 Hz
AQ               0.9044468 sec
RG                   2048
DW                27.600 usec
DE                10.00 usec
TE                292.1 K
D1             4.00000000 sec
d11            0.03000000 sec
DELTA          3.90000010 sec
MCREST         0.00000000 sec
MCWRK          0.01500000 sec

======== CHANNEL f1 ========
NUC1                  13C
P1                   8.20 usec
PL1                 -6.00 dB
SFO1         75.4756731 MHz

======== CHANNEL f2 ========
CPDPRG2          waltz16
NUC2                   1H
PCPD2                80.00 usec
PL2                   0.00 dB
PL12                 21.54 dB
PL13                 21.54 dB
SFO2         300.1312005 MHz

F2 - Processing parameters
SI                  32768
SF           75.4677490 MHz
WDW                    EM
SSB                     0
LB                   1.00 Hz
GB                      0
PC                   1.40
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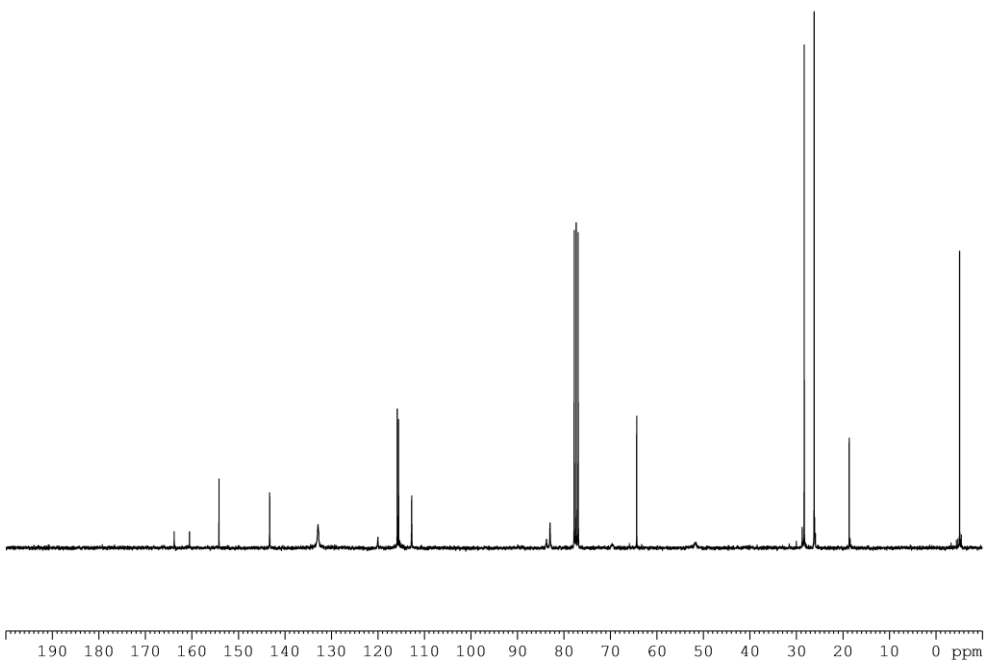

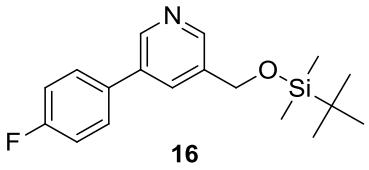

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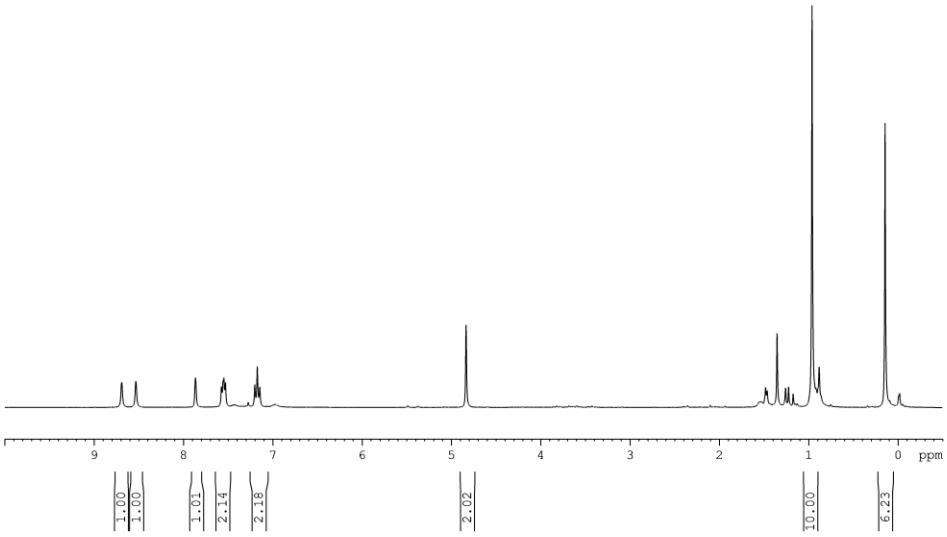


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EXPNO                        1
PROCNO                       1

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Time                   15.21
INSTRUM                spect
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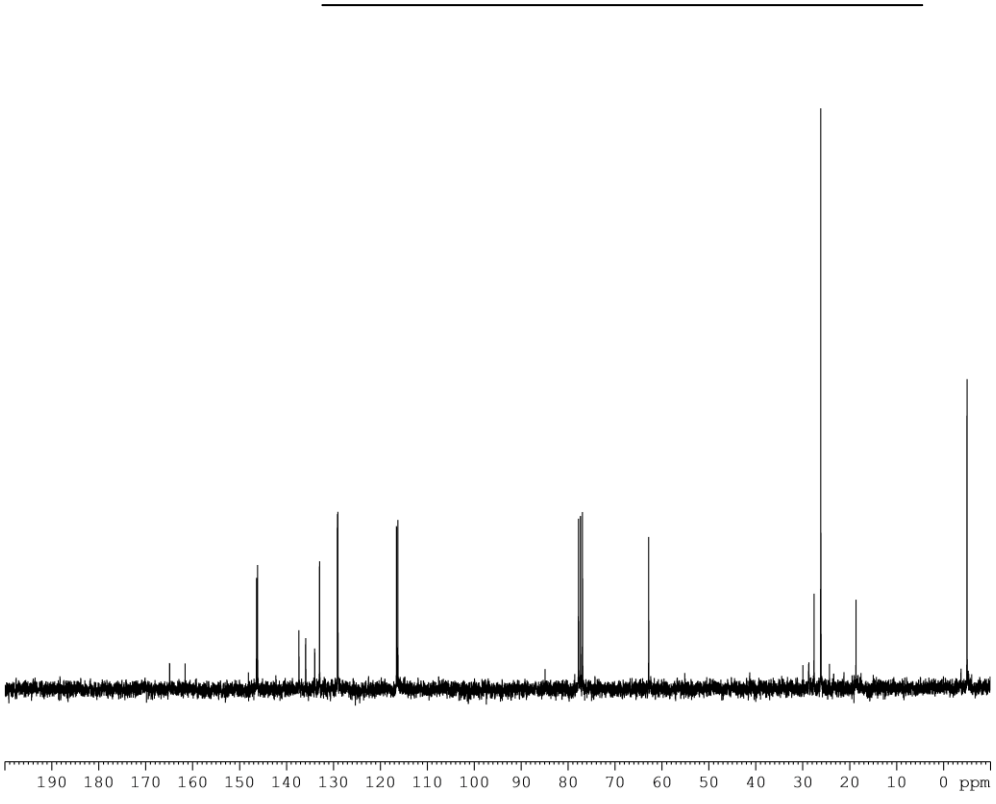
PULPROG                zg30
TD                    16384
SOLVENT               CDCl3
NS                       16
DS                        2
SWH                4194.631 Hz
FIDRES            0.256020 Hz
AQ                1.9530228 sec
RG                       57
DW                 119.200 usec
DE                   6.50 usec
TE                  295.0 K
D1              1.00000000 sec
MCREST          0.00000000 sec
MCWRK           0.01500000 sec

======== CHANNEL f1 ========
NUC1                     1H
P1                     6.70 usec
PL1                    0.00 dB
SFO1           300.1319508 MHz

F2 - Processing parameters
SI                    32768
SF             300.1300016 MHz
WDW                      EM
SSB                       0
LB                     0.30 Hz
GB                        0
PC                     1.00

1D NMR plot parameters
CX                    20.00 cm
CY                     9.55 cm
F1P                  10.000 ppm
F1                  3001.30 Hz
F2P                  -0.500 ppm
F2                  -150.06 Hz
PPMCM                0.52500 ppm/cm
HZCM               157.56825 Hz/cm
```

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Current Data Parameters
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EXPNO                        2
PROCNO                       1

F2 - Acquisition Parameters
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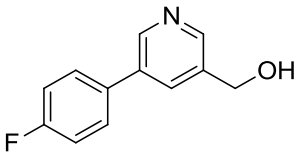
Time                   15.25
INSTRUM                spect
PROBHD   5 mm BBI 1H-BB
PULPROG              zgpg30
TD                    32768
SOLVENT               CDCl3
NS                      100
DS                        4
SWH               18115.941 Hz
FIDRES            0.552855 Hz
AQ                0.9044468 sec
RG                     2048
DW                   27.600 usec
DE                   10.00 usec
TE                   295.1 K
D1              2.00000000 sec
d11             0.03000000 sec
DELTA           1.89999998 sec
MCREST          0.00000000 sec
MCWRK           0.01500000 sec

======== CHANNEL f1 ========
NUC1                    13C
P1                     8.20 usec
PL1                   -6.00 dB
SFO1           75.4756731 MHz

======== CHANNEL f2 ========
CPDPRG2              waltz16
NUC2                     1H
PCPD2                80.00 usec
PL2                    0.00 dB
PL12                  21.54 dB
PL13                  21.54 dB
SFO2           300.1312005 MHz

F2 - Processing parameters
SI                    32768
SF             75.4677490 MHz
WDW                      EM
SSB                       0
LB                     1.00 Hz
GB                        0
PC                     1.40

1D NMR plot parameters
CX                    20.00 cm
CY                     6.89 cm
F1P                 200.000 ppm
F1                15093.55 Hz
F2P                 -10.000 ppm
F2                 -754.68 Hz
PPMCM               10.50000 ppm/cm
HZCM              792.41138 Hz/cm
```



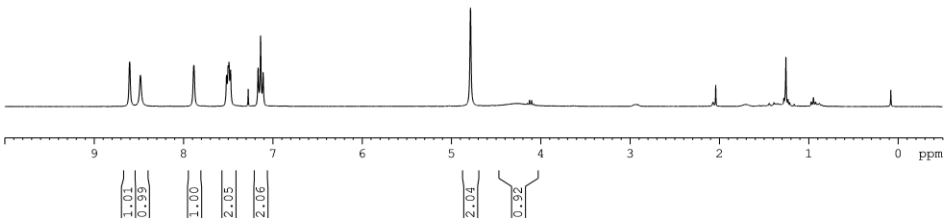

```
Current Data Parameters
NAME                 fc45wa539
EXPNO                        1
PROCNO                       1

F2 - Acquisition Parameters
Date_               20121106
Time                   10.12
INSTRUM                spect
PROBHD   5 mm BBI 1H-BB
PULPROG                 zg30
TD                     16384
SOLVENT                CDCl3
NS                        16
DS                         2
SWH                 4194.631 Hz
FIDRES              0.256020 Hz
AQ                  1.9530228 sec
RG                     161.3
DW                   119.200 usec
DE                     6.50 usec
TE                    293.9 K
D1                  1.00000000 sec
MCREST              0.00000000 sec
MCWRK               0.01500000 sec

======== CHANNEL f1 ========
NUC1                       1H
P1                       6.70 usec
PL1                      0.00 dB
SFO1              300.1319508 MHz

F2 - Processing parameters
SI                     32768
SF                300.1300016 MHz
WDW                       EM
SSB                        0
LB                      0.30 Hz
GB                         0
PC                      1.00

1D NMR plot parameters
CX                     20.00 cm
CY                      5.98 cm
F1P                   10.000 ppm
F1                  3001.30 Hz
F2P                   -0.500 ppm
F2                  -150.06 Hz
PPMCM                0.52500 ppm/cm
HZCM               157.56825 Hz/cm
```




```
Current Data Parameters
NAME                 fc45wa539
EXPNO                        2
PROCNO                       1

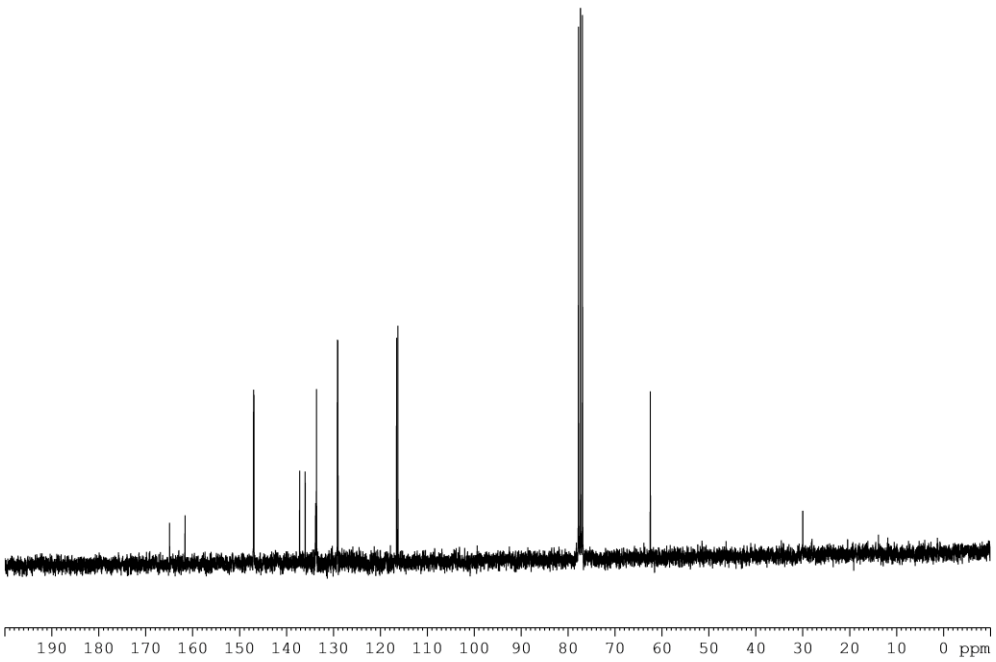
F2 - Acquisition Parameters
Date_               20121106
Time                   10.15
INSTRUM                spect
PROBHD   5 mm BBI 1H-BB
PULPROG             zgpg30
TD                     32768
SOLVENT                CDCl3
NS                       250
DS                         4
SWH                18115.941 Hz
FIDRES              0.552855 Hz
AQ                  0.9044468 sec
RG                      2048
DW                    27.600 usec
DE                    10.00 usec
TE                    294.0 K
D1                  2.00000000 sec
d11                 0.03000000 sec
DELTA               1.89999998 sec
MCREST              0.00000000 sec
MCWRK               0.01500000 sec

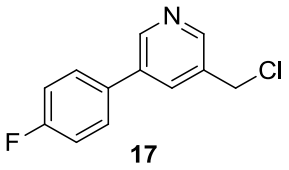
======== CHANNEL f1 ========
NUC1                      13C
P1                      8.20 usec
PL1                    -6.00 dB
SFO1              75.4756731 MHz

======== CHANNEL f2 ========
CPDPRG2              waltz16
NUC2                       1H
PCPD2                 80.00 usec
PL2                      0.00 dB
PL12                    21.54 dB
PL13                    21.54 dB
SFO2              300.1312005 MHz

F2 - Processing parameters
SI                     32768
SF                75.4677490 MHz
WDW                       EM
SSB                        0
LB                      1.00 Hz
GB                         0
PC                      1.40

1D NMR plot parameters
CX                     20.00 cm
CY                     13.90 cm
F1P                  170.234 ppm
F1                 12847.15 Hz
F2P                  108.119 ppm
F2                  8159.52 Hz
PPMCM                3.10572 ppm/cm
HZCM               234.38139 Hz/cm
```





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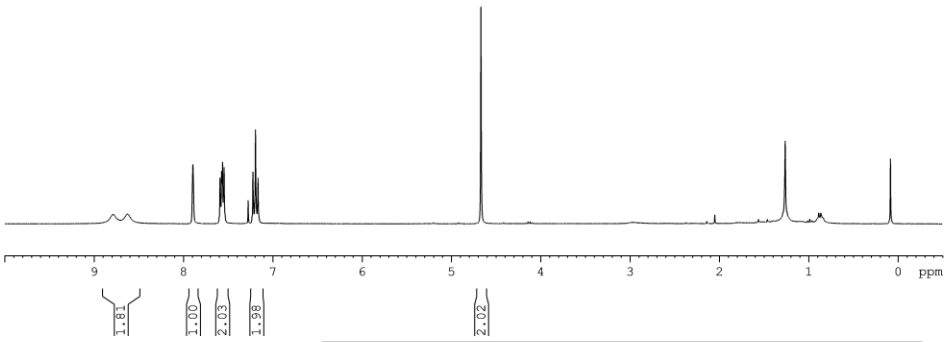


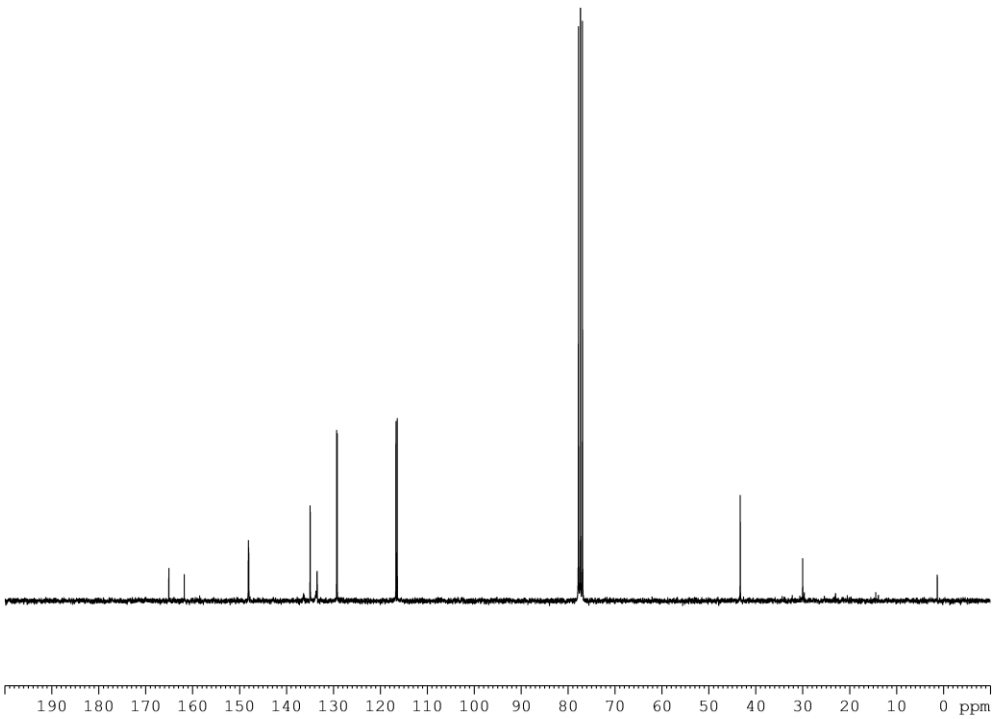

```
Current Data Parameters
NAME                 fc45wa540
EXPNO                      300
PROCNO                       1

F2 - Acquisition Parameters
Date_               20121107
Time                    8.49
INSTRUM                spect
PROBHD   5 mm BBI 1H-BB
PULPROG                 zg30
TD                     16384
SOLVENT                CDCl3
NS                        16
DS                         2
SWH                 4194.631 Hz
FIDRES              0.256020 Hz
AQ                  1.9530228 sec
RG                      203.2
DW                    119.200 usec
DE                      6.50 usec
TE                     296.9 K
D1                  1.00000000 sec
MCREST              0.00000000 sec
MCWRK               0.01500000 sec

======== CHANNEL f1 ========
NUC1                       1H
P1                       6.70 usec
PL1                      0.00 dB
SFO1             300.1319508 MHz

F2 - Processing parameters
SI                      32768
SF                300.1300016 MHz
WDW                        EM
SSB                         0
LB                       0.30 Hz
GB                          0
PC                       1.00

1D NMR plot parameters
CX                      20.00 cm
CY                       5.64 cm
F1P                    10.000 ppm
F1                   3001.30 Hz
F2P                    -0.500 ppm
F2                   -150.06 Hz
PPMCM                 0.52500 ppm/cm
HZCM                157.56825 Hz/cm
```




```
Current Data Parameters
NAME                 fc46wa540
EXPNO                       14
PROCNO                       1

F2 - Acquisition Parameters
Date_               20121114
Time                   20.47
INSTRUM                spect
PROBHD   5 mm BBI 1H-BB
PULPROG             zgpg30
TD                     32768
SOLVENT                CDCl3
NS                      2048
DS                         4
SWH                18115.941 Hz
FIDRES              0.552855 Hz
AQ                  0.9044468 sec
RG                      2048
DW                    27.600 usec
DE                     10.00 usec
TE                     295.1 K
D1                  4.00000000 sec
d11                 0.03000000 sec
DELTA               3.90000010 sec
MCREST              0.00000000 sec
MCWRK               0.01500000 sec

======== CHANNEL f1 ========
NUC1                       13C
P1                       8.20 usec
PL1                     -6.00 dB
SFO1             75.4756731 MHz

======== CHANNEL f2 ========
CPDPRG2                waltz16
NUC2                       1H
PCPD2                   80.00 usec
PL2                      0.00 dB
PL12                    21.54 dB
PL13                    21.54 dB
SFO2             300.1312005 MHz

F2 - Processing parameters
SI                      32768
SF                75.4677258 MHz
WDW                        EM
SSB                         0
LB                       1.00 Hz
GB                          0
PC                       1.40

1D NMR plot parameters
CX                      20.00 cm
CY                      10.79 cm
F1P                   200.000 ppm
F1                  15093.55 Hz
F2P                   -10.000 ppm
F2                   -754.68 Hz
PPMCM                10.50000 ppm/cm
HZCM                792.41113 Hz/cm
```