

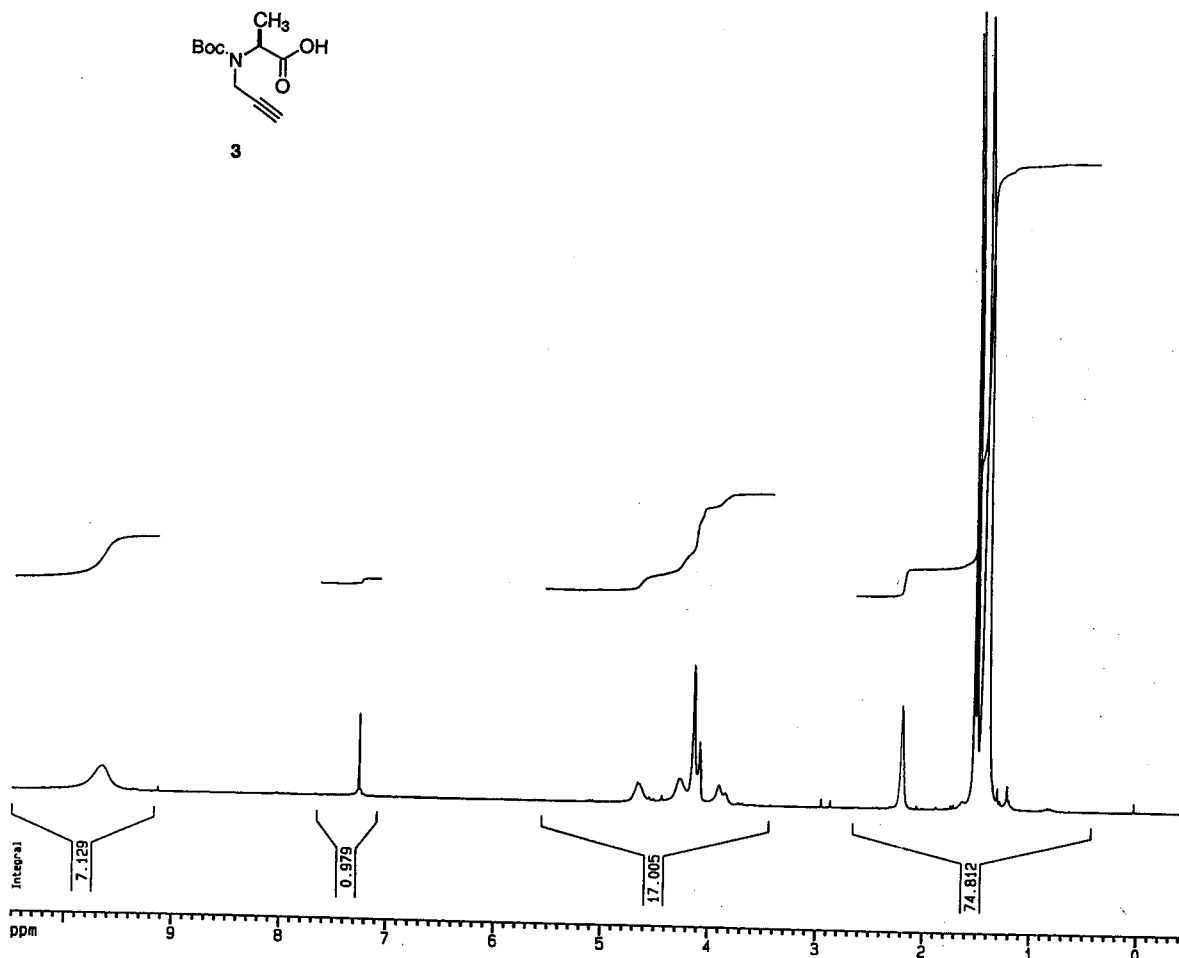
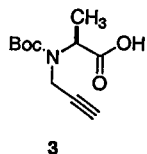
Synthesis of N-(3-Arylpropyl)amino Acid Derivatives by Sonogashira Types of Reaction in Water^{†§}

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SUPPORTING INFORMATION - 0L0162421 - SPECTRA

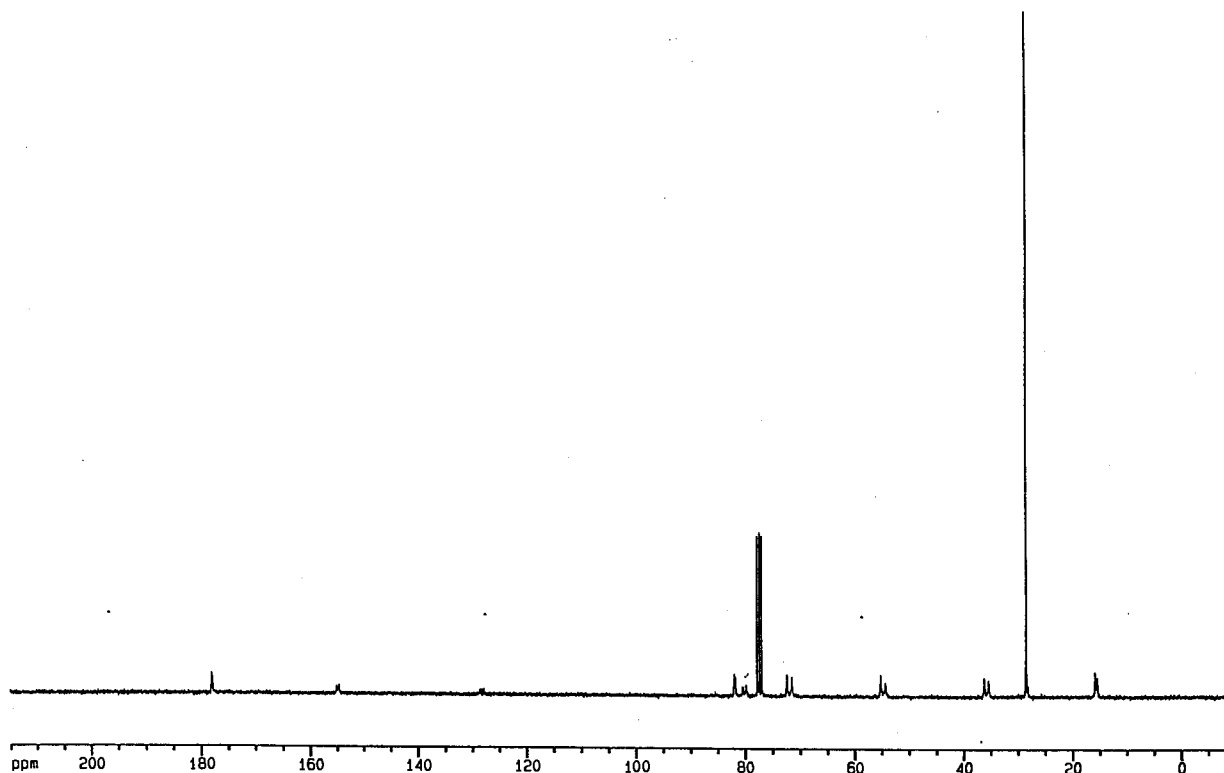


Current Data Parameters
NAME jgpl272
EXPNO 460
PROCNO 1

F2 - Acquisition Parameters
Date 990422
Time 23.27
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SOLVENT CDCl3
AQ 2.1627080 sec
FIDRES 0.231194 Hz
DM 66.0 usec
RG 128
NUCLEUS 1H
HL1 1 dB
D1 1.0000000 sec
P1 11.3 usec
DE 82.5 usec
SFO1 300.1359186 MHz
SWH 7575.76 Hz
TD 32768
NS 32
DS 2

F2 - Processing parameters
SI 16384
SF 300.1333679 MHz
WDW EM
SSB 0
LB 0.25 Hz
GB 0
PC 1.00
SR 3367.46 Hz

1D NMR plot parameters
CX 22.00 cm
F1P 10.500 ppm
F1 3151.40 Hz
F2P -0.500 ppm
F2 -150.07 Hz
PPMCH 0.50000 ppm/cm
HZCH 150.06667 Hz/cm

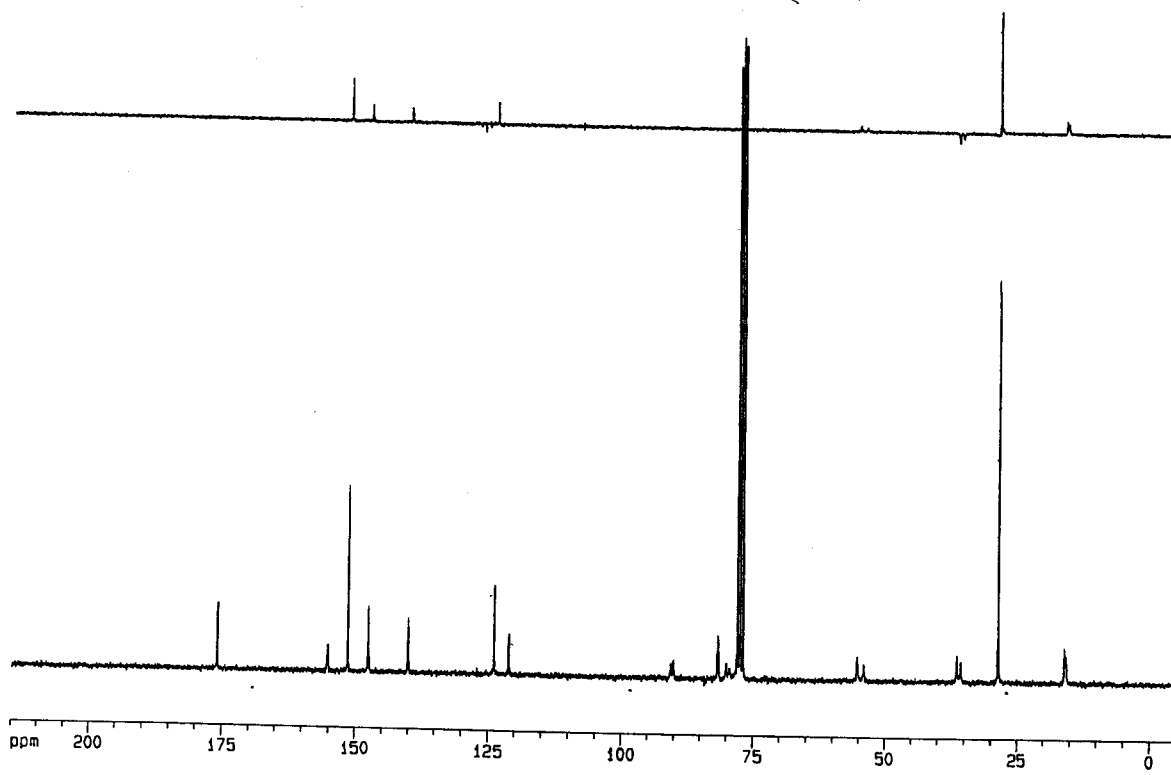
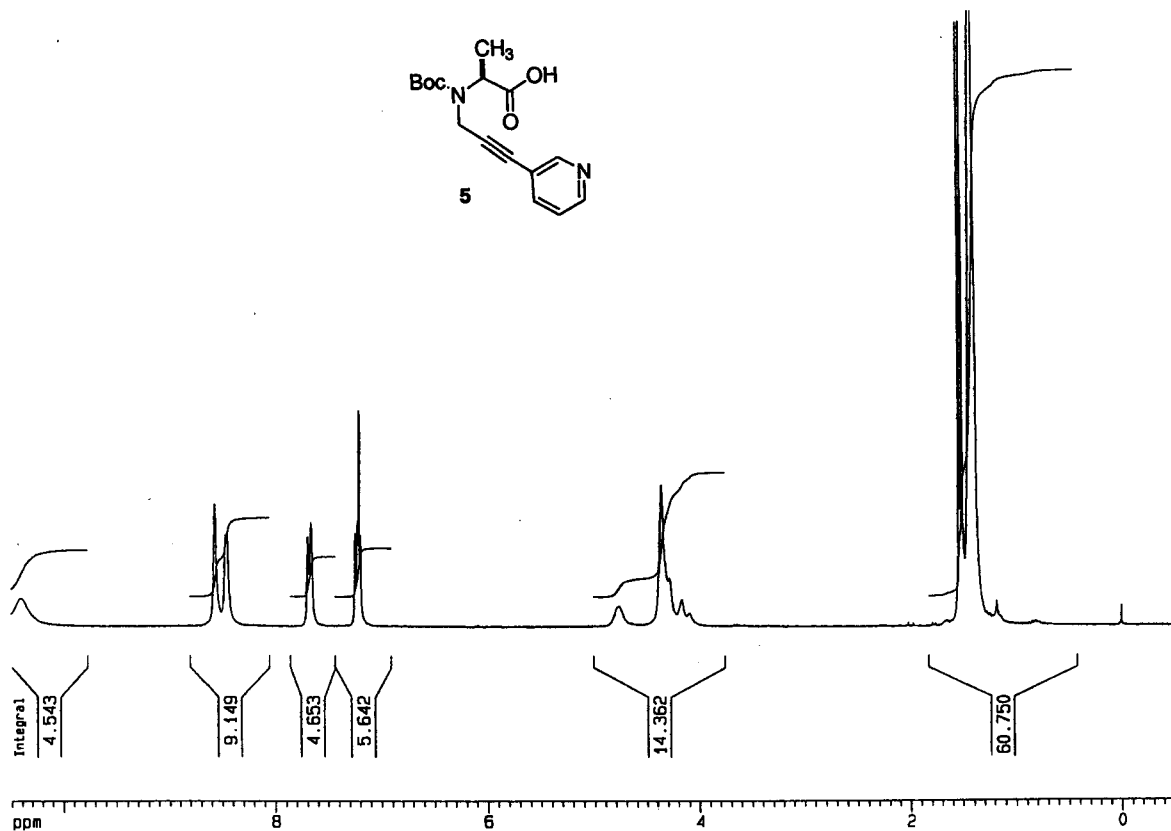
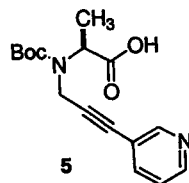


Current Data Parameters
NAME jgpl272
EXPNO 461
PROCNO 1

F2 - Acquisition Parameters
Date 990422
Time 23.49
PULPROG zgpg30
SOLVENT CDCl3
AQ 1.3762695 sec
FIDRES 0.363306 Hz
DM 21.0 usec
RG 32768
NUCLEUS 13C
HL1 1 dB
D1 0.4200000 sec
P31 100.0 usec
S4 72 dB
D11 0.0300000 sec
S2 21 dB
P1 4.0 usec
DE 26.3 usec
SFO1 75.4756621 MHz
SWH 23809.64 Hz
TD 65536
NS 1600
DS 2

F2 - Processing parameters
SI 32768
SF 75.4685631 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
SR -1436.85 Hz

1D NMR plot parameters
CX 22.90 cm
F1P 215.000 ppm
F1 16225.74 Hz
F2P -10.000 ppm
F2 -754.68 Hz
PPMCH 9.82533 ppm/cm
HZCH 741.50342 Hz/cm



Current Data Parameters
NAME jgpld322
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 990814
Time 22.22
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TO 32768
SOLVENT CDCl3
NS 8
DS 2
SWH 5144.033 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 sec
RG 181
DM 97.200 usec
DE 10.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 9.75 usec
SF01 250.1315447 MHz
NUC1 1H
PL1 -6.00 dB

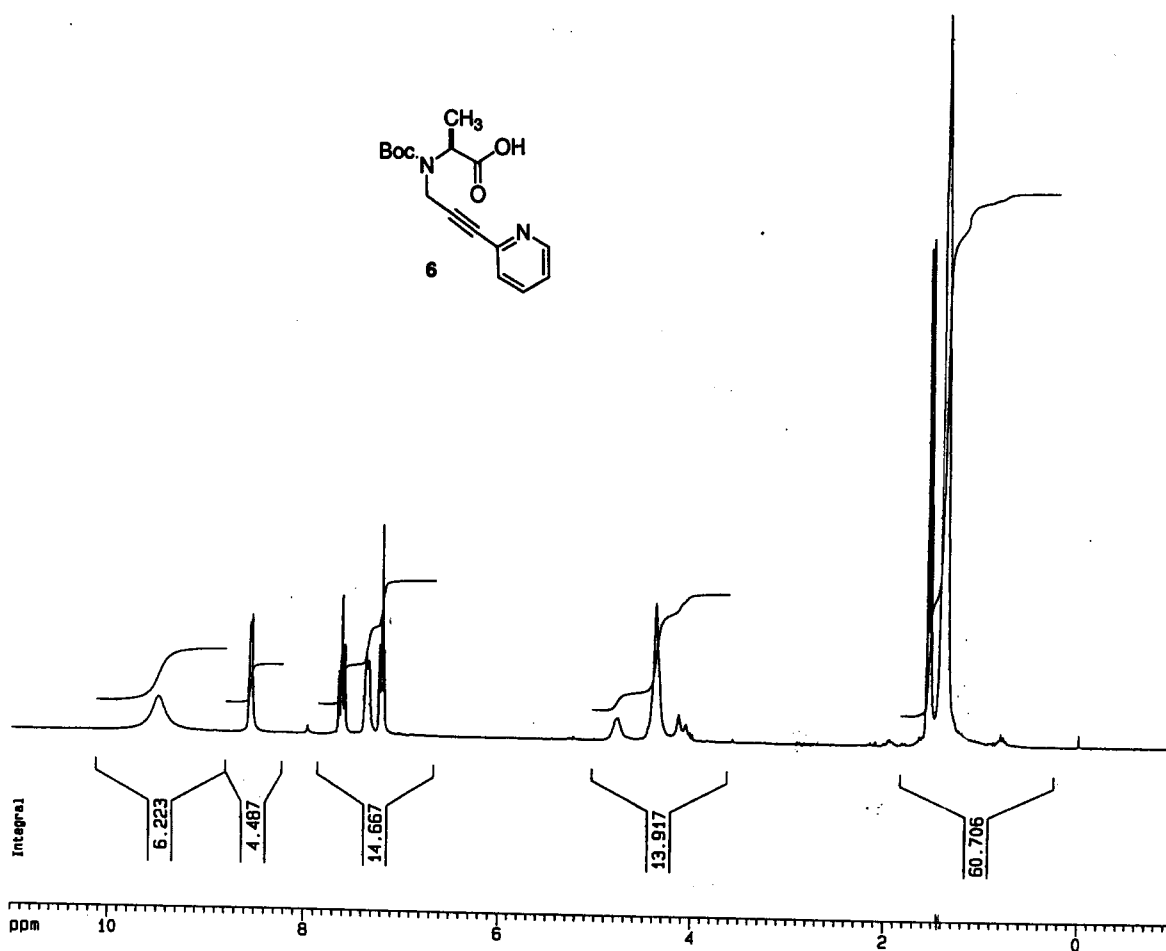
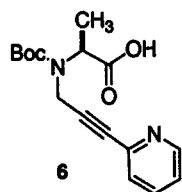
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SI 16384
SF 250.1300213 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 10.500 ppm
F1 2626.37 Hz
F2P -0.500 ppm
F2 -125.07 Hz
PPMCM 0.55000 ppm/cm
HZCM 137.57152 Hz/cm

SOLVENT CDCl3
NS 9000
DS 2
SWH 19841.270 Hz
FIDRES 0.302754 Hz
AQ 1.6515572 sec
RG 8192
DM 25.200 usec
DE 10.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 18.00 dB
D1 2.00000000 sec
PCPDG2 waltz16
PCPD2 100.00 usec
SF02 250.1310005 MHz
NUC2 13C
PL2 -6.00 dB
PL12 18.00 dB
P1 9.50 usec
SF01 62.9031573 MHz
NUC1 13C
PL1 -2.00 dB
D11 0.03000000 sec

F2 - Processing parameters
SI 32768
SF 62.8952140 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 215.000 ppm
F1 13522.47 Hz
F2P -5.000 ppm
F2 -314.48 Hz
PPMCM 11.00000 ppm/cm
HZCM 691.84735 Hz/cm

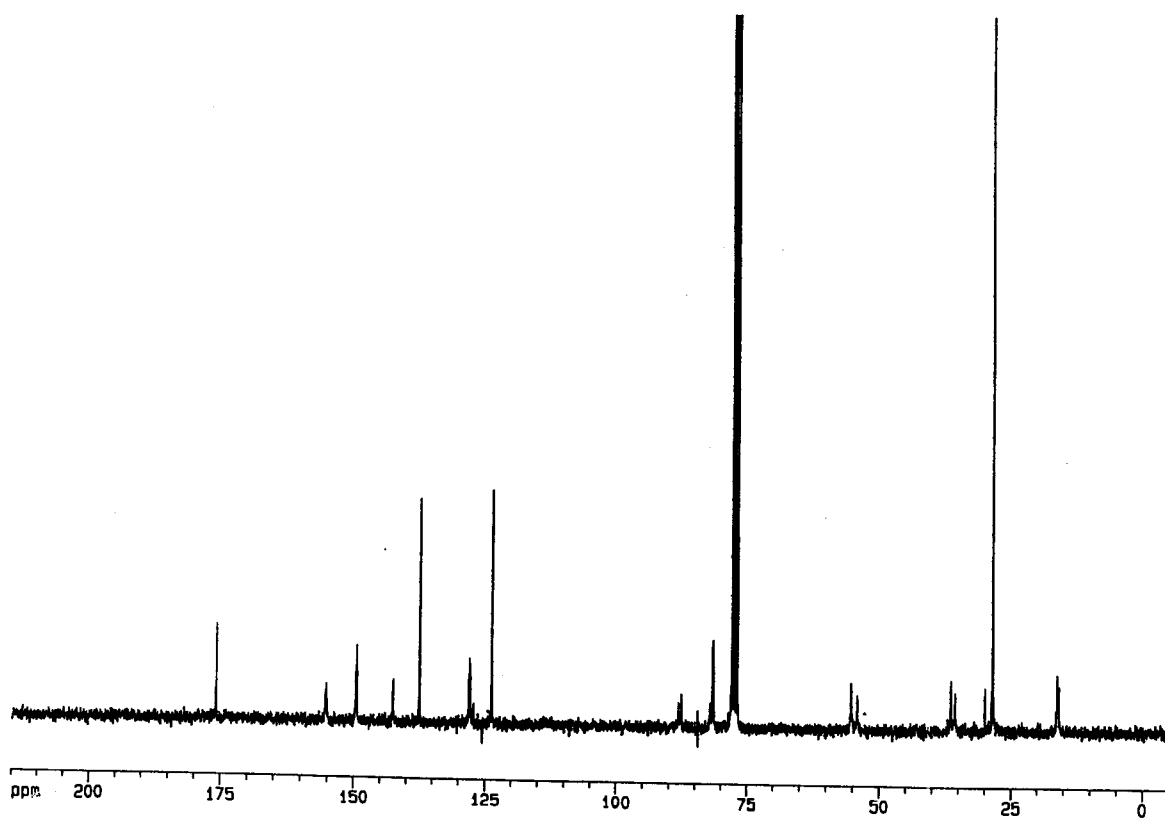


Current Data Parameters
NAME jgpld178
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20000815
Time 20.19
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SMH 5144.033 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 sec
RG 181
DW 97.200 usec
DE 10.50 usec
TE 300.0 K
D1 1.0000000 sec
P1 9.75 usec
SF01 250.1315447 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 250.1300203 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

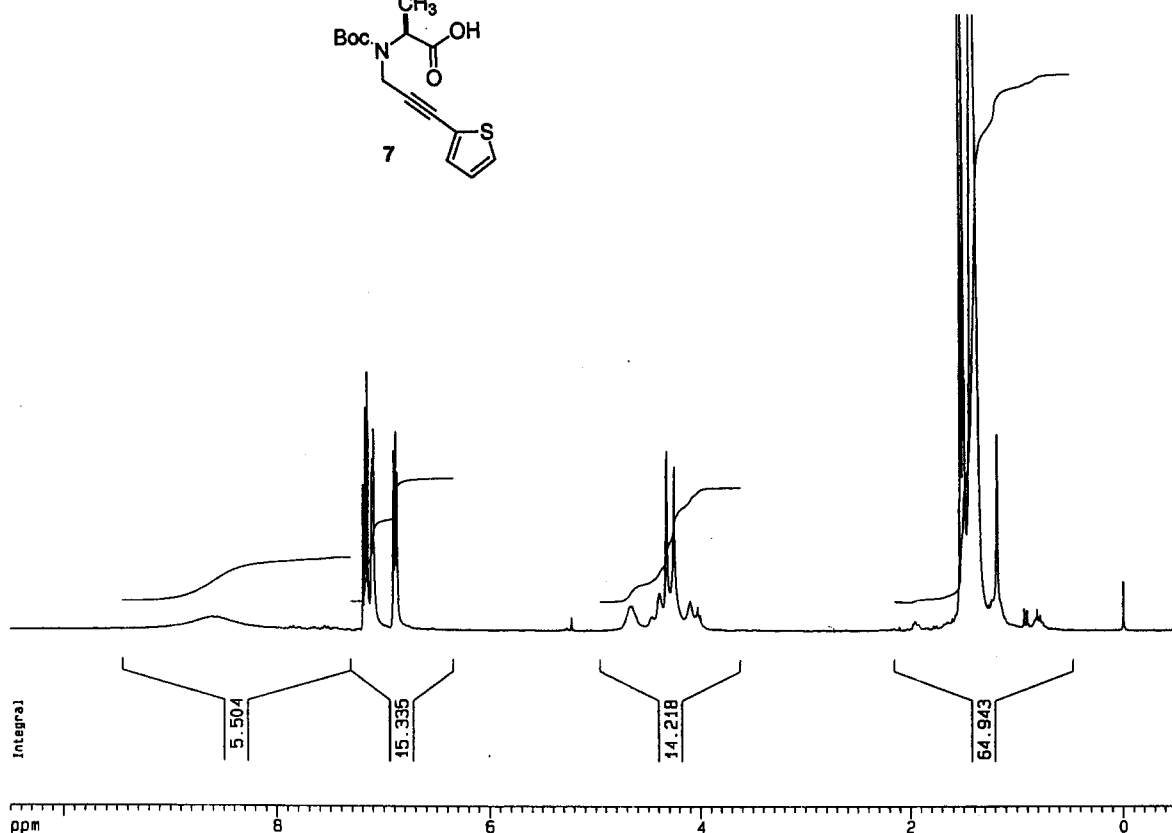
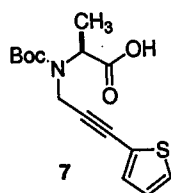
1D NMR plot parameters
CX 20.00 cm
F1P 11.000 ppm
F1 2751.43 Hz
F2P -1.000 ppm
F2 -250.13 Hz
PPMCH 0.60000 ppm/cm
HZCM 150.07802 Hz/cm



PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 4000
DS 2
SMH 19841.270 Hz
FIDRES 0.302754 Hz
AQ 1.6515572 sec
RG 8192
DW 25.200 usec
DE 10.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 18.00 dB
D1 2.00000000 sec
CPOPRG2 waltz16
PCPD2 100.00 usec
SF02 250.1310005 MHz
NUC2 13C
PL2 -6.00 dB
PL12 18.00 dB
P1 9.50 usec
SF01 62.9031573 MHz
NUC1 1H
PL1 -2.00 dB
D11 0.03000000 sec

F2 - Processing parameters
SI 32768
SF 62.8932140 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 215.000 ppm
F1 13522.47 Hz
F2P -5.000 ppm
F2 -314.48 Hz
PPMCH 11.00000 ppm/cm
HZCM 691.84735 Hz/cm

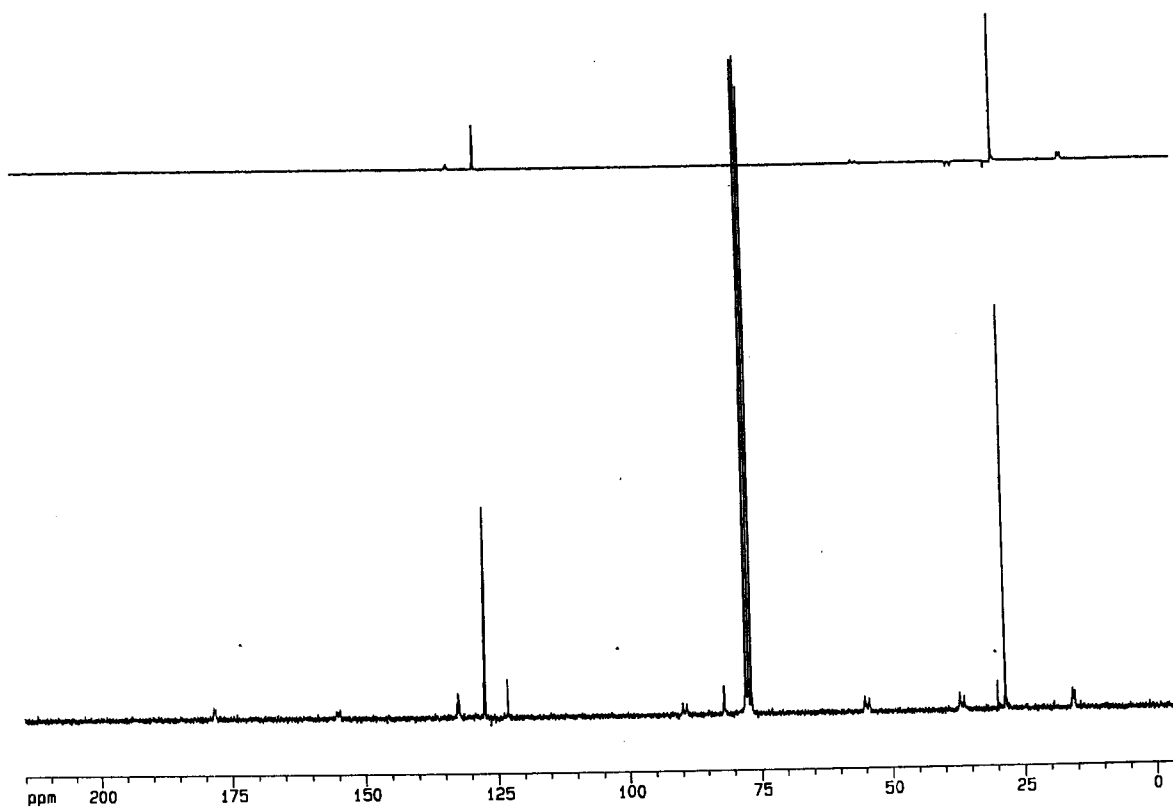


Current Data Parameters
NAME jgpld367
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20000812
Time 15.47
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 5144.033 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 sec
RG 322.5
DM 97.200 usec
DE 10.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 9.75 usec
SFO1 250.1315447 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 250.1300246 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

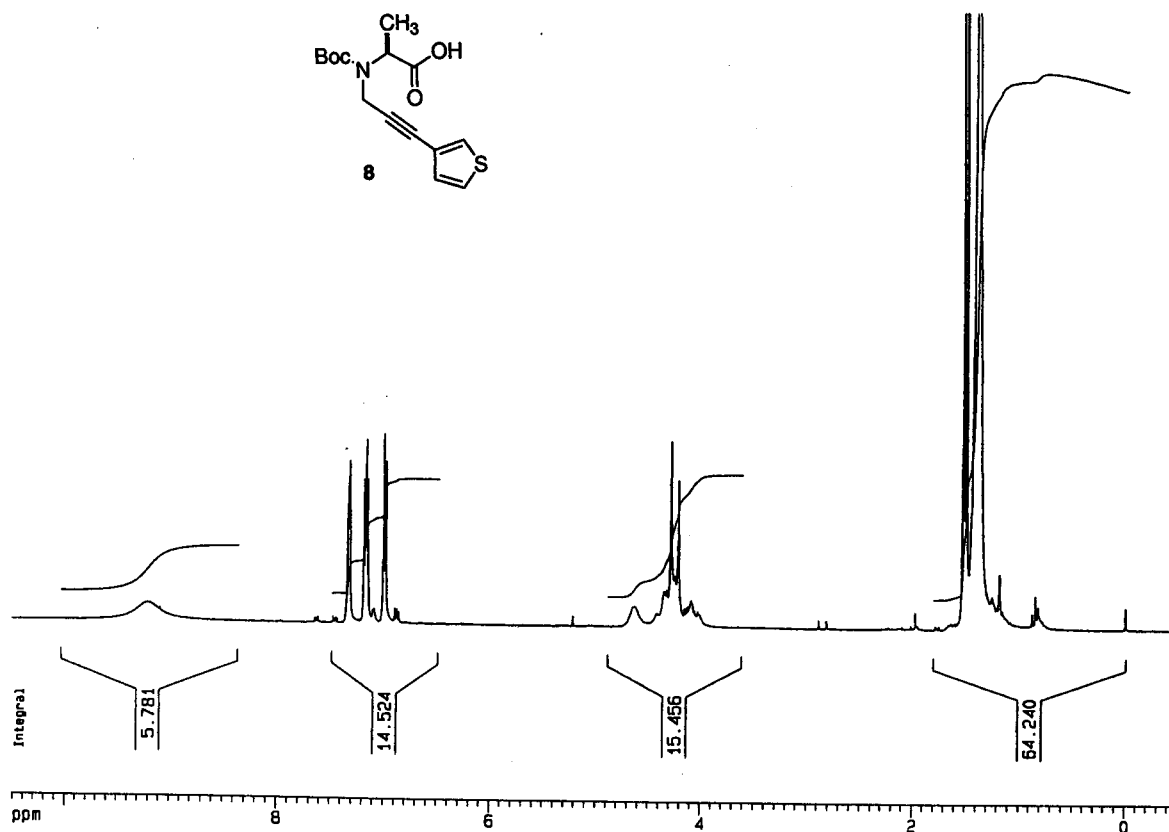
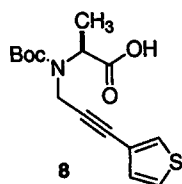
1D NMR plot parameters
CX 20.00 cm
F1P 10.500 ppm
F1 2626.37 Hz
F2P -0.500 ppm
F2 -125.07 Hz
PPMCH 0.55000 ppm/cm
HZCM 137.57152 Hz/cm



INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 5000
DS 2
SWH 19841.270 Hz
FIDRES 0.302754 Hz
AQ 1.6515572 sec
RG 8192
DM 25.200 usec
DE 10.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 18.00 dB
D1 2.00000000 sec
CPOPRG2 waltz16
PCPD2 100.00 usec
SFO2 250.1310005 MHz
NUC2 1H
PL2 -6.00 dB
PL12 16.00 dB
P1 9.50 usec
SFO1 62.9031573 MHz
NUC1 13C
PL1 -2.00 dB
D11 0.03000000 sec

F2 - Processing parameters
SI 32768
SF 62.8952140 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 215.000 ppm
F1 13522.47 Hz
F2P -5.000 ppm
F2 -314.48 Hz
PPMCH 11.00000 ppm/cm
HZCM 691.84735 Hz/cm

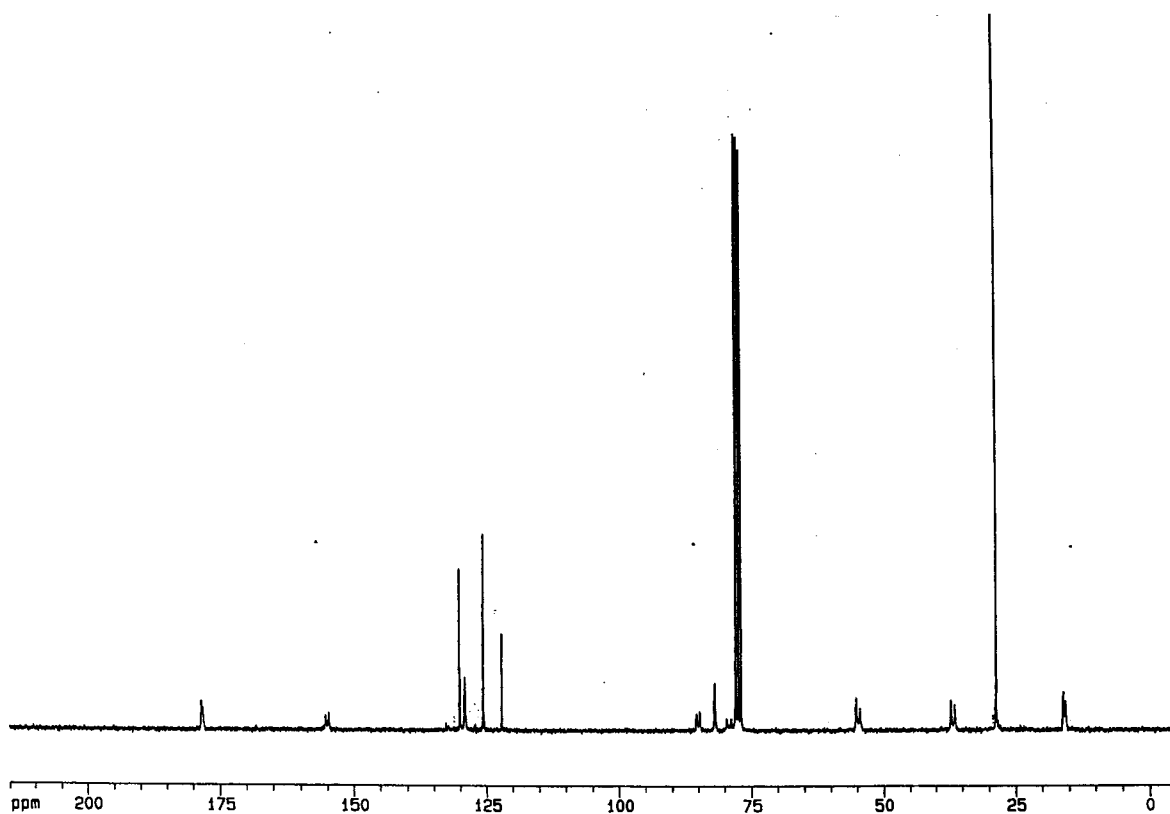


Current Data Parameters
NAME jgpld328
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 990820
Time 19.20
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 5144.033 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 sec
RG 181
DM 97.200 usec
DE 10.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 9.75 usec
SF01 250.1315447 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 250.1300244 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 10.500 ppm
F1 2626.37 Hz
F2P -0.500 ppm
F2 -125.07 Hz
PPMCM 0.55000 ppm/cm
HZCM 137.57152 Hz/cm

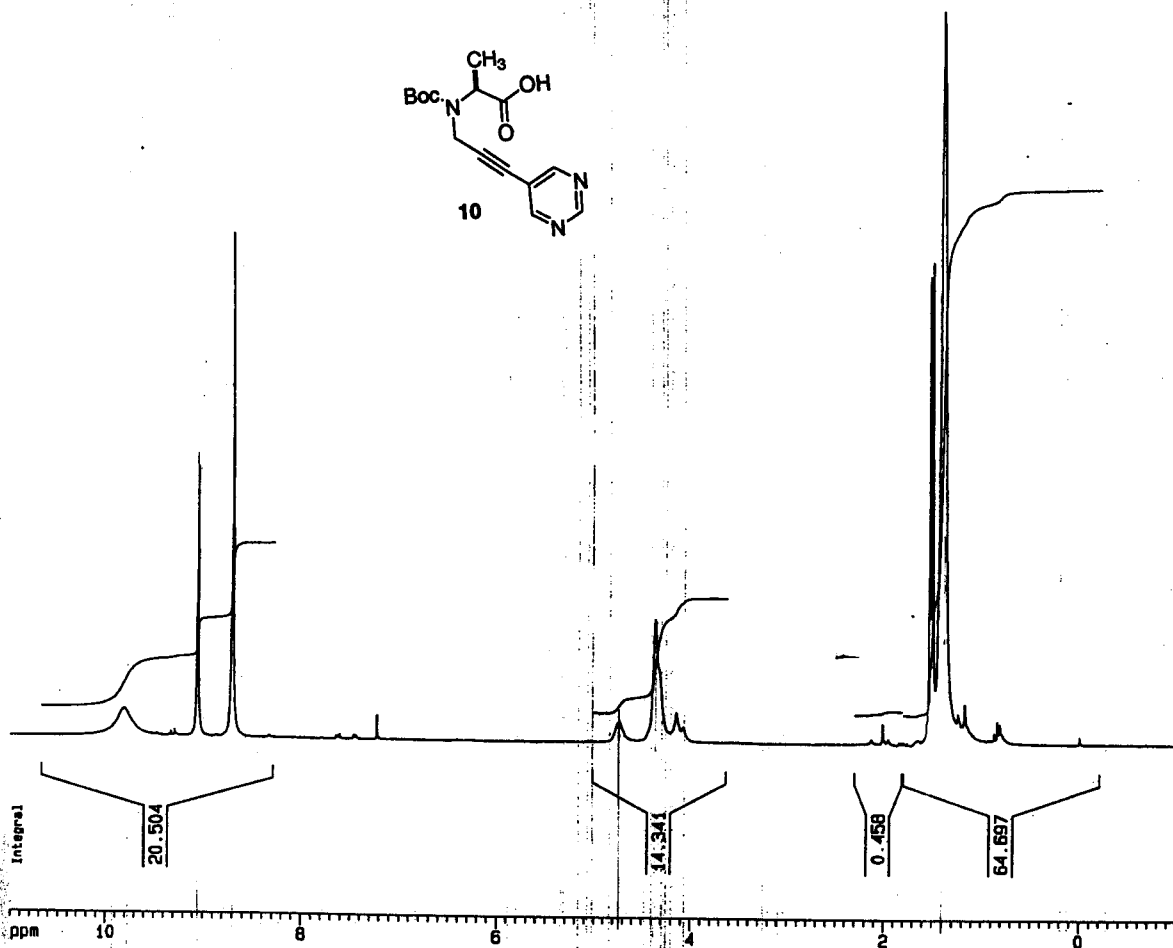
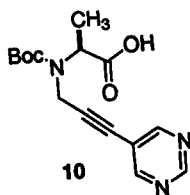


Current Data Parameters
NAME jgpld328
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 990820
Time 19.23
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 10000
DS 2
SWH 19841.270 Hz
FIDRES 0.302754 Hz
AQ 1.6515572 sec
RG 8192
DM 25.200 usec
DE 10.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 18.00 dB
D1 2.00000000 sec
CPOPRG2 waltz16
PCPD2 100.00 usec
SF02 250.1310005 MHz
NUC2 13C
PL2 -6.00 dB
PL12 16.00 dB
P1 9.50 usec
SF01 62.9031573 MHz
NUC1 13C
PL1 -2.00 dB
D11 0.03000000 sec

F2 - Processing parameters
SI 32768
SF 62.8952140 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 215.000 ppm
F1 13522.47 Hz
F2P -5.000 ppm
F2 -314.48 Hz
PPMCM 11.00000 ppm/cm
HZCM 691.84795 Hz/cm

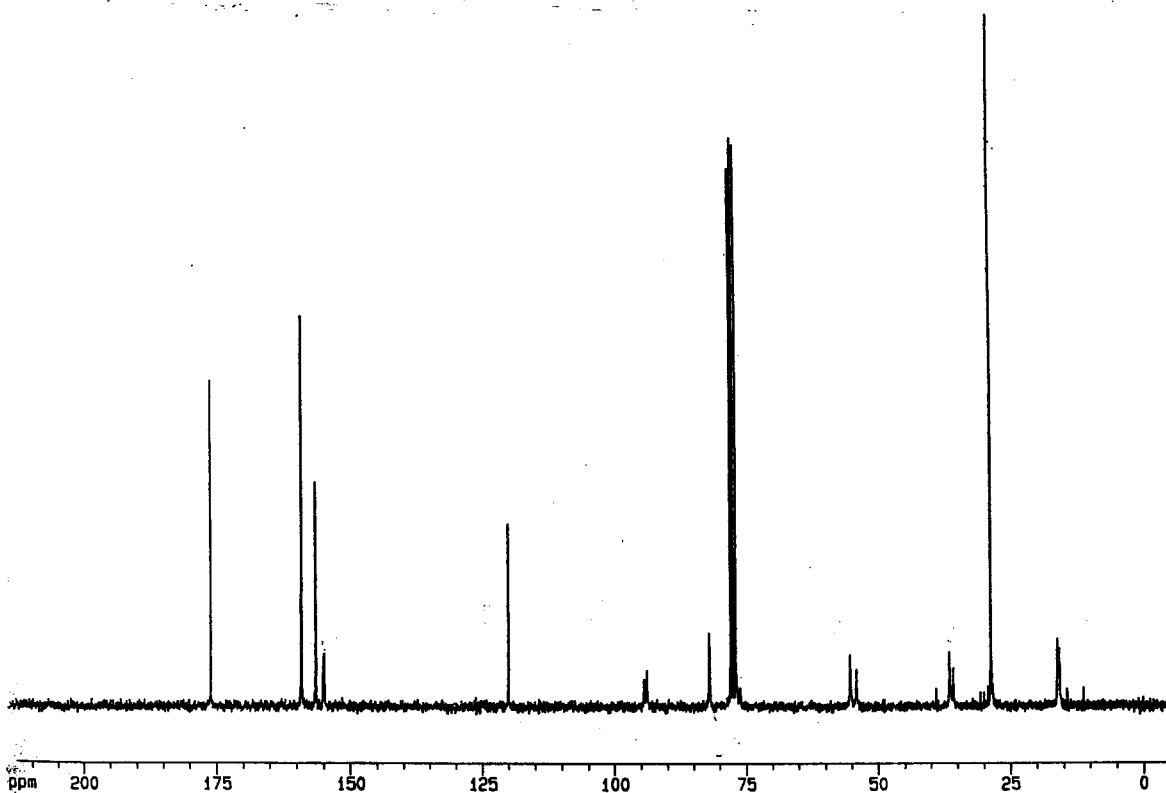


Current Data Parameters
 NAME jgpld262
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990819
 Time 19.44
 INSTRUM spect
 PROBHD 5 mm QNP 13
 PULPROG zg30
 TO 32768
 SOLVENT CDCl3
 NS 7
 DS 2
 SMH 5144.033 Hz
 FIDRES 0.156983 Hz
 AQ 3.1850996 sec
 RG 143.7
 DW 97.200 usec
 DE 10.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 9.75 usec
 SFO1 250.1315447 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 250.1300134 MHz
 MDW EN
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

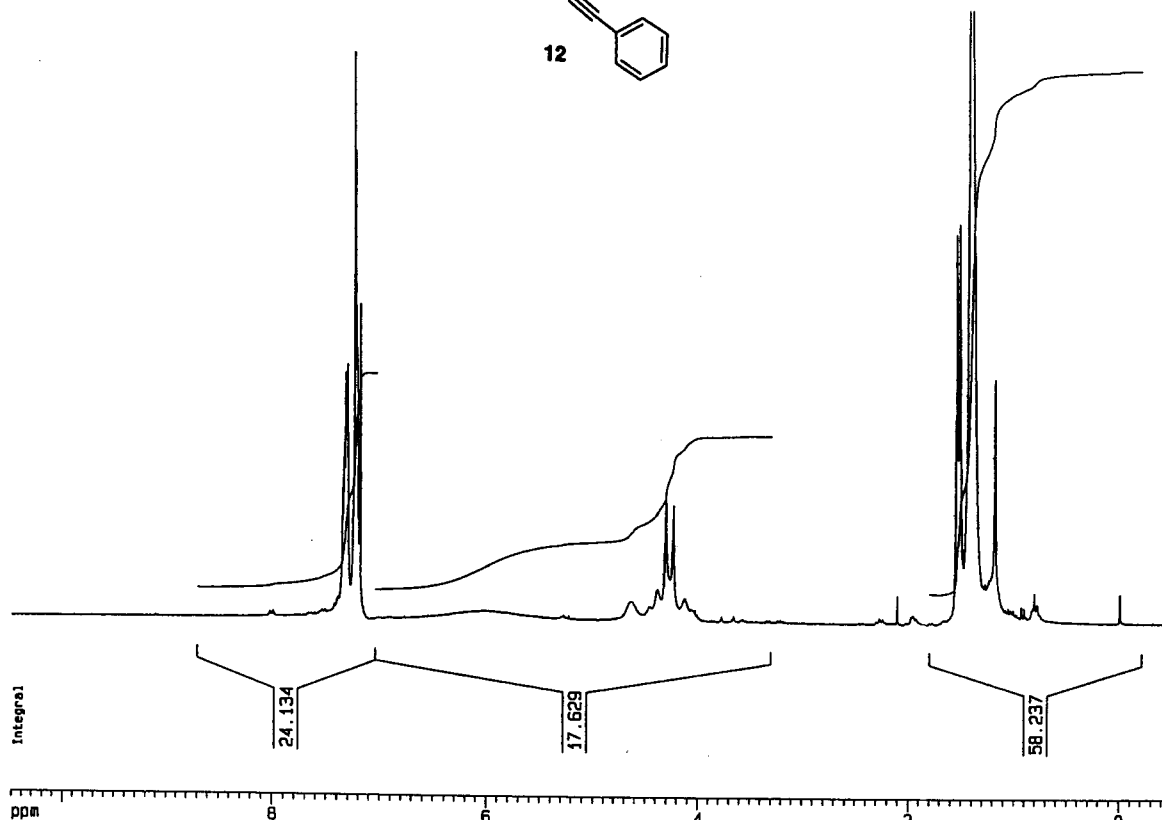
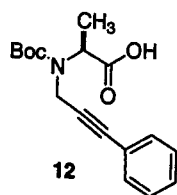
1D NMR plot parameters
 CX 20.00 cm
 F1P 11.000 ppa
 F1 2781.43 Hz
 F2P -1.000 ppa
 F2 -250.13 Hz
 PPMCH 0.60000 ppa/cm
 HZCH 150.07802 Hz/cm



PULPROG zgpg30
 TO 65536
 SOLVENT CDCl3
 NS 2048
 DS 2
 SMH 19841.270 Hz
 FIDRES 0.302784 Hz
 AQ 1.6515572 sec
 RG 8192
 DW 25.200 usec
 DE 10.50 usec
 TE 300.0 K
 D12 0.00002000 sec
 PL13 18.00 dB
 D1 2.00000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SFO2 250.1310005 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 18.00 dB
 P1 9.50 usec
 SFO1 62.9031573 MHz
 NUC1 13C
 PL1 -2.00 dB
 D11 0.03000000 sec

F2 - Processing parameters
 SI 32768
 SF 62.8952140 MHz
 MDW EN
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 215.000 ppa
 F1 13522.47 Hz
 F2P -5.000 ppa
 F2 -914.48 Hz
 PPMCH 11.00000 ppa/cm
 HZCH 691.84735 Hz/cm

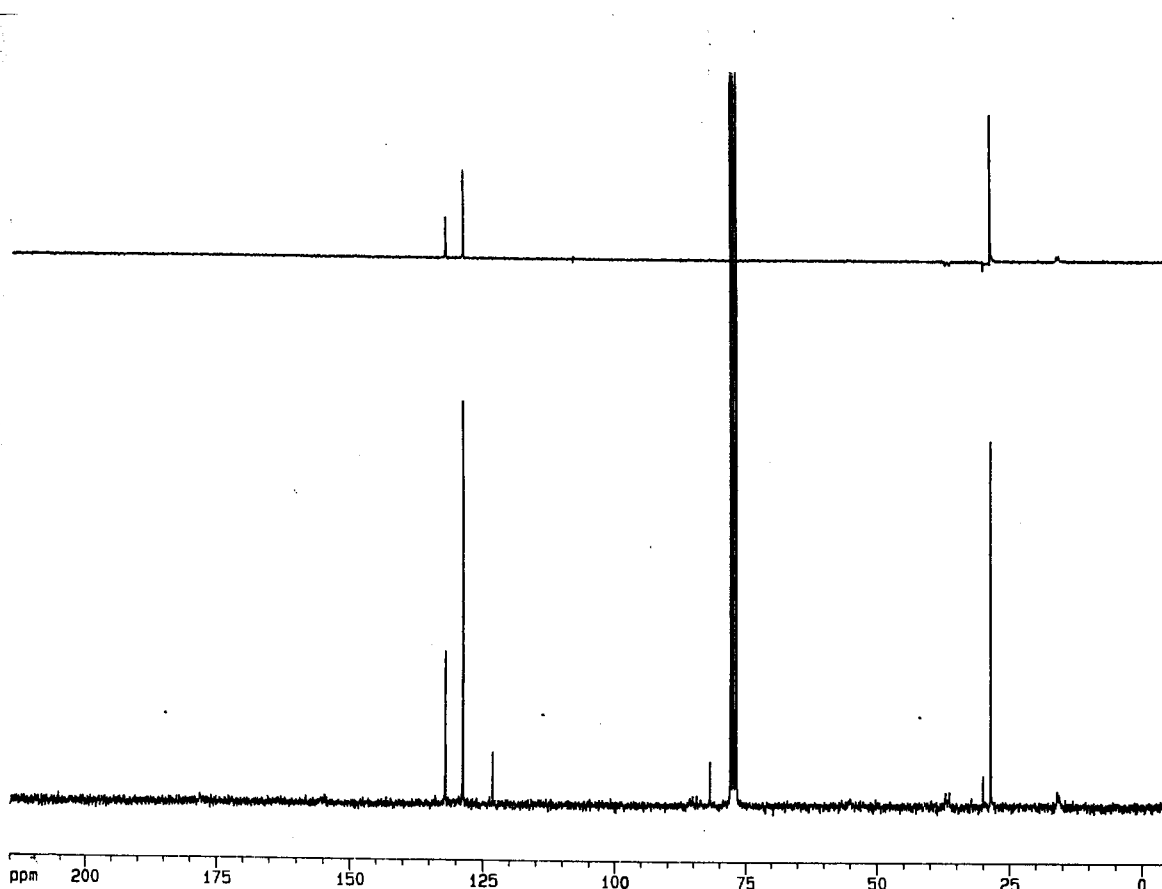


Current Data Parameters
NAME jgpld89
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20000816
Time 21.24
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 100
DS 2
SWH 5144.033 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 sec
RG 362
DM 97.200 usec
DE 10.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 9.75 usec
SFO1 250.1315447 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 250.1300247 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

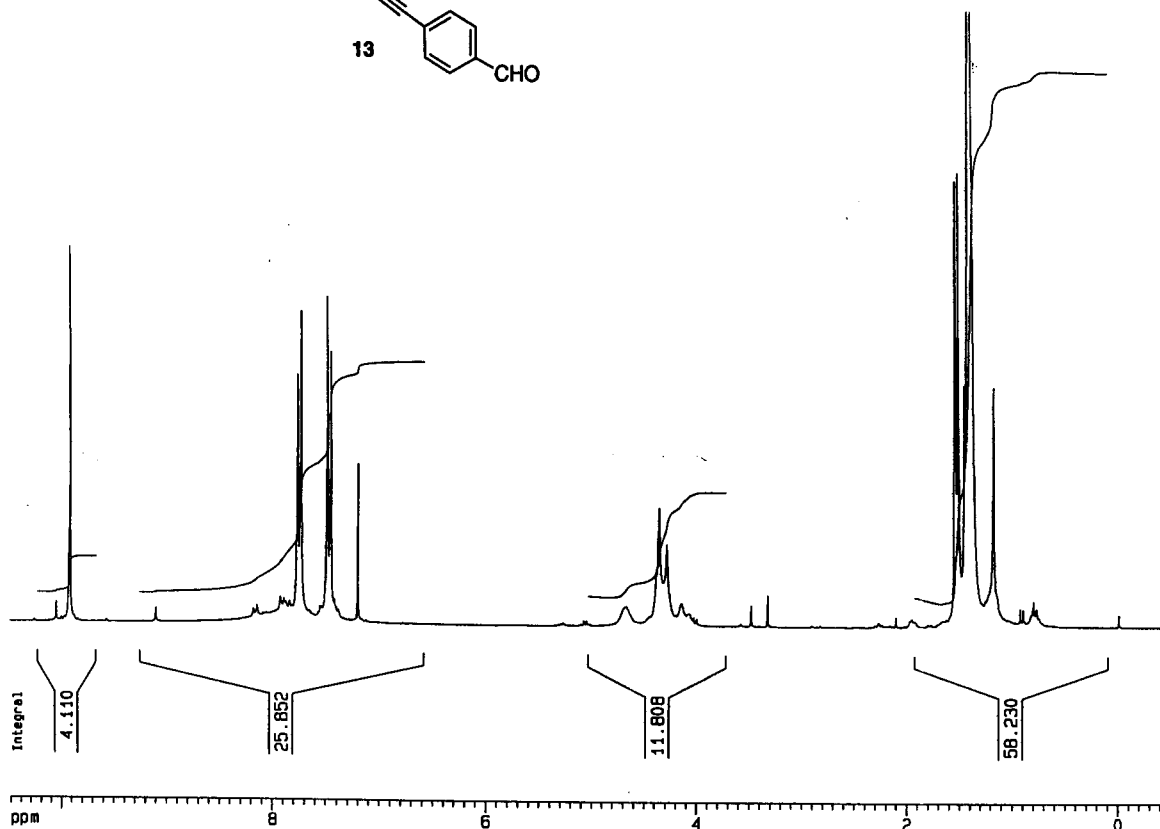
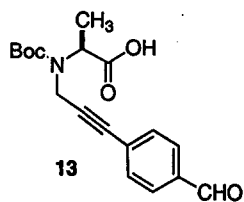
1D NMR plot parameters
CX 20.00 cm
F1P 10.500 ppm
F1 2626.37 Hz
F2P -0.500 ppm
F2 -125.07 Hz
PPMCM 0.55000 ppm/cm
HZCM 137.57152 Hz/cm



F2 - Acquisition Parameters
Date_ 20000817
Time 3.37
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 6000
DS 2
SWH 19841.270 Hz
FIDRES 0.302754 Hz
AQ 1.6515672 sec
RG 8192
DM 25.200 usec
DE 10.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 18.00 dB
D1 2.00000000 sec
CPOPRG2 waltz16
PCPD2 100.00 usec
SFO2 250.1310005 MHz
NUC2 1H
PL2 -6.00 dB
PL12 16.00 dB
P1 9.50 usec
SFO1 62.9031573 MHz
NUC1 13C
PL1 -2.00 dB
D11 0.03000000 sec

F2 - Processing parameters
SI 32768
SF 62.8952140 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 215.000 ppm
F1 13522.47 Hz
F2P -5.000 ppm
F2 -314.48 Hz
PPMCM 11.00000 ppm/cm
HZCM 691.84735 Hz/cm

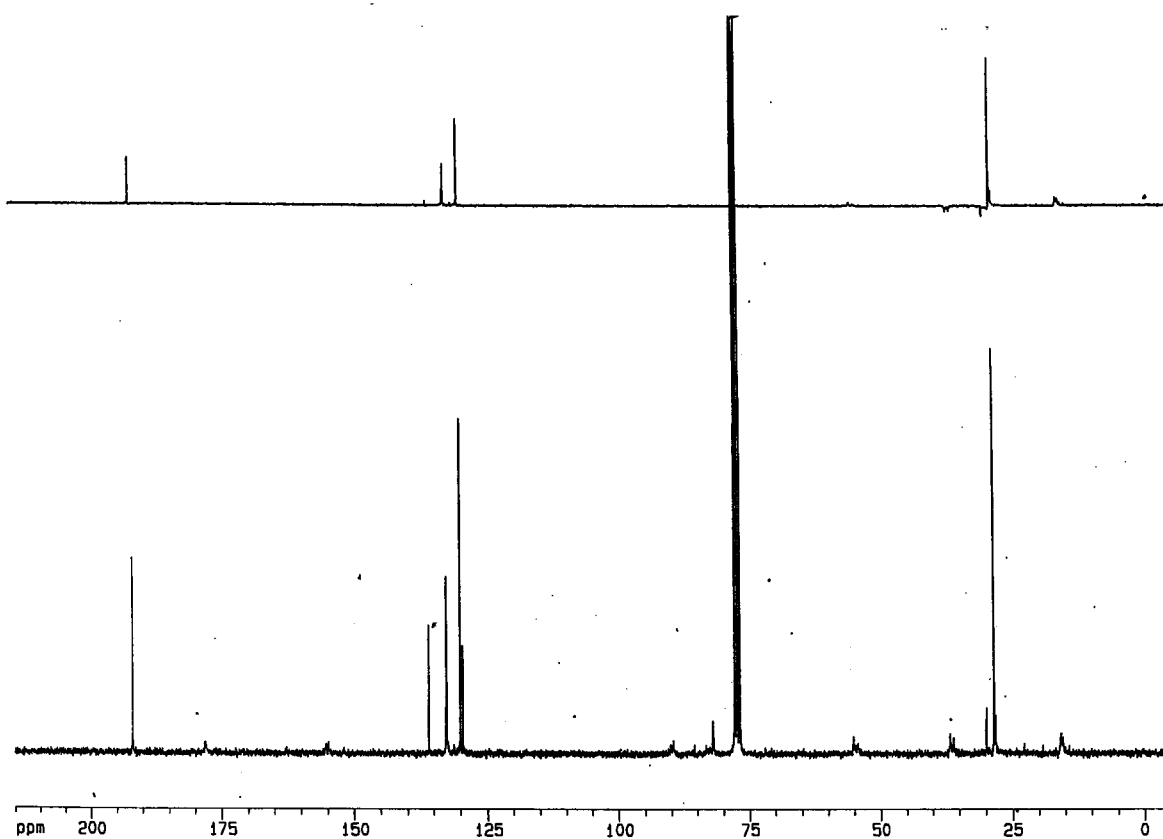


Current Data Parameters
 NAME jgpld361
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20000817
 Time 22.40
 INSTRUM spect
 PROBHD 5 mm Dual 13
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 250
 DS 2
 SMH 5144.033 Hz
 FIDRES 0.156983 Hz
 AQ 3.1850996 sec
 RG 362
 DM 97.200 usec
 DE 10.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 9.75 usec
 SF01 250.1315447 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 250.1300230 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

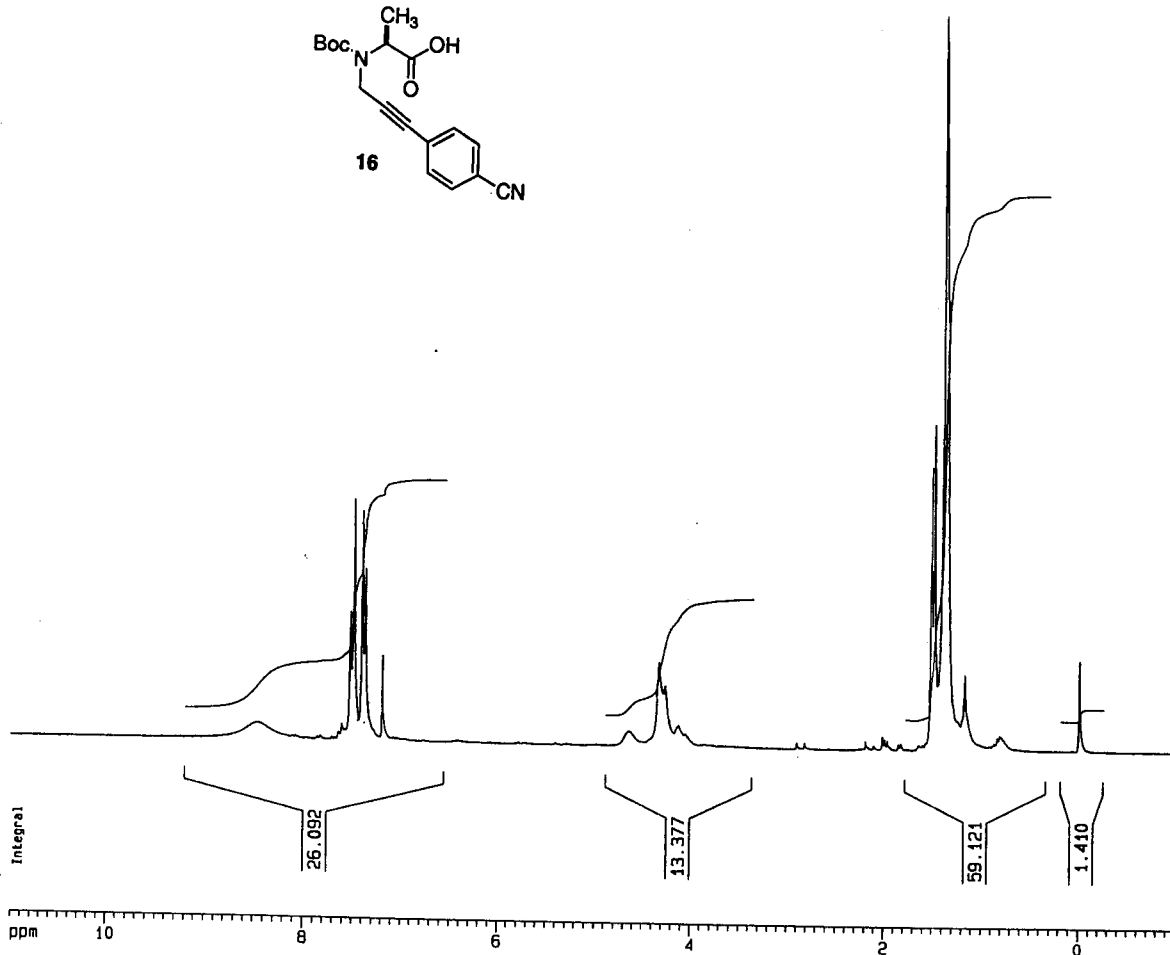
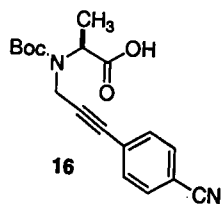
1D NMR plot parameters
 CX 20.00 cm
 F1P 10.500 ppm
 F1 2626.37 Hz
 F2P -0.500 ppm
 F2 -125.07 Hz
 PPMCM 0.55000 ppm/cm
 HZCM 137.57152 Hz/cm



PROBHD 5 mm Dual 13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 7000
 DS 2
 SMH 19841.270 Hz
 FIDRES 0.302754 Hz
 AQ 1.6515572 sec
 RG 8192
 DM 25.200 usec
 DE 10.50 usec
 TE 300.0 K
 D12 0.00002000 sec
 PL13 18.00 dB
 D1 2.00000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 250.1310005 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 16.00 dB
 P1 9.50 usec
 SF01 62.9031573 MHz
 NUC1 13C
 PL1 -2.00 dB
 D11 0.03000000 sec

F2 - Processing parameters
 SI 32768
 SF 62.8952140 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 215.000 ppm
 F1 13522.47 Hz
 F2P -5.000 ppm
 F2 -314.48 Hz
 PPMCM 11.00000 ppm/cm
 HZCM 691.84735 Hz/cm

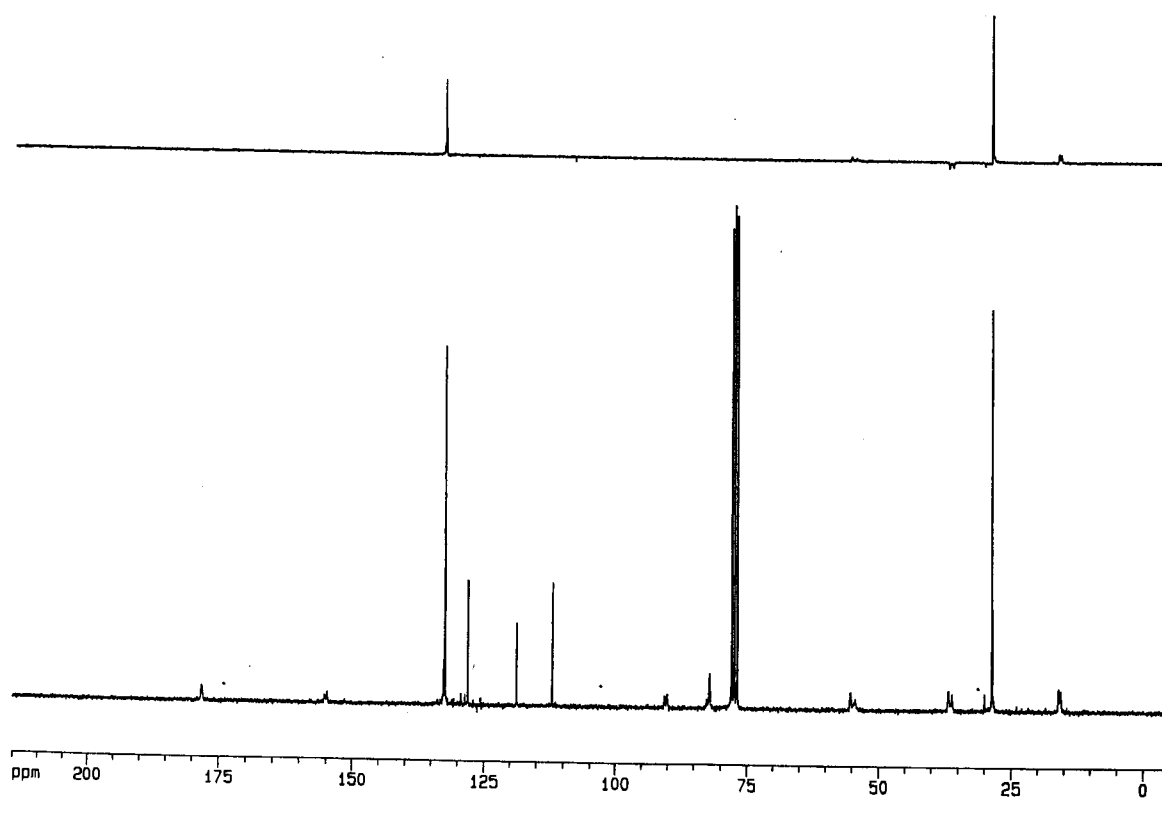


Current Data Parameters
NAME jgpld357 (15)
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20000727
Time 21.51
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TO 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 5144.033 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 sec
RG 161.3
DW 97.200 usec
DE 10.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 9.75 usec
SF01 250.1315447 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 250.1300234 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

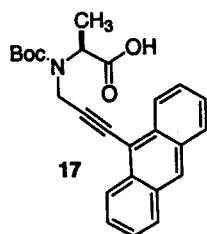
1D NMR plot parameters
CX 20.00 cm
F1P 11.000 ppm
F1 2751.43 Hz
F2P -1.000 ppm
F2 -250.13 Hz
PPMCM 0.60000 ppm/cm
HZCM 150.07802 Hz/cm



PROBHD 5 mm Dual 13
PULPROG zgpg30
TO 65536
SOLVENT CDCl3
NS 10240
DS 2
SWH 19841.270 Hz
FIDRES 0.302754 Hz
AQ 1.6515572 sec
RG 8192
DW 25.200 usec
DE 10.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 18.00 dB
D1 2.00000000 sec
CPOPRG2 waltz16
PCPD2 100.00 usec
SF02 250.1310005 MHz
NUC2 1H
PL2 -8.00 dB
PL12 18.00 dB
P1 9.50 usec
SF01 62.9031573 MHz
NUC1 13C
PL1 -2.00 dB
D11 0.03000000 sec

F2 - Processing parameters
SI 32768
SF 62.8952140 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 215.000 ppm
F1 13522.47 Hz
F2P -5.000 ppm
F2 -314.48 Hz
PPMCM 11.00000 ppm/cm
HZCM 691.84735 Hz/cm

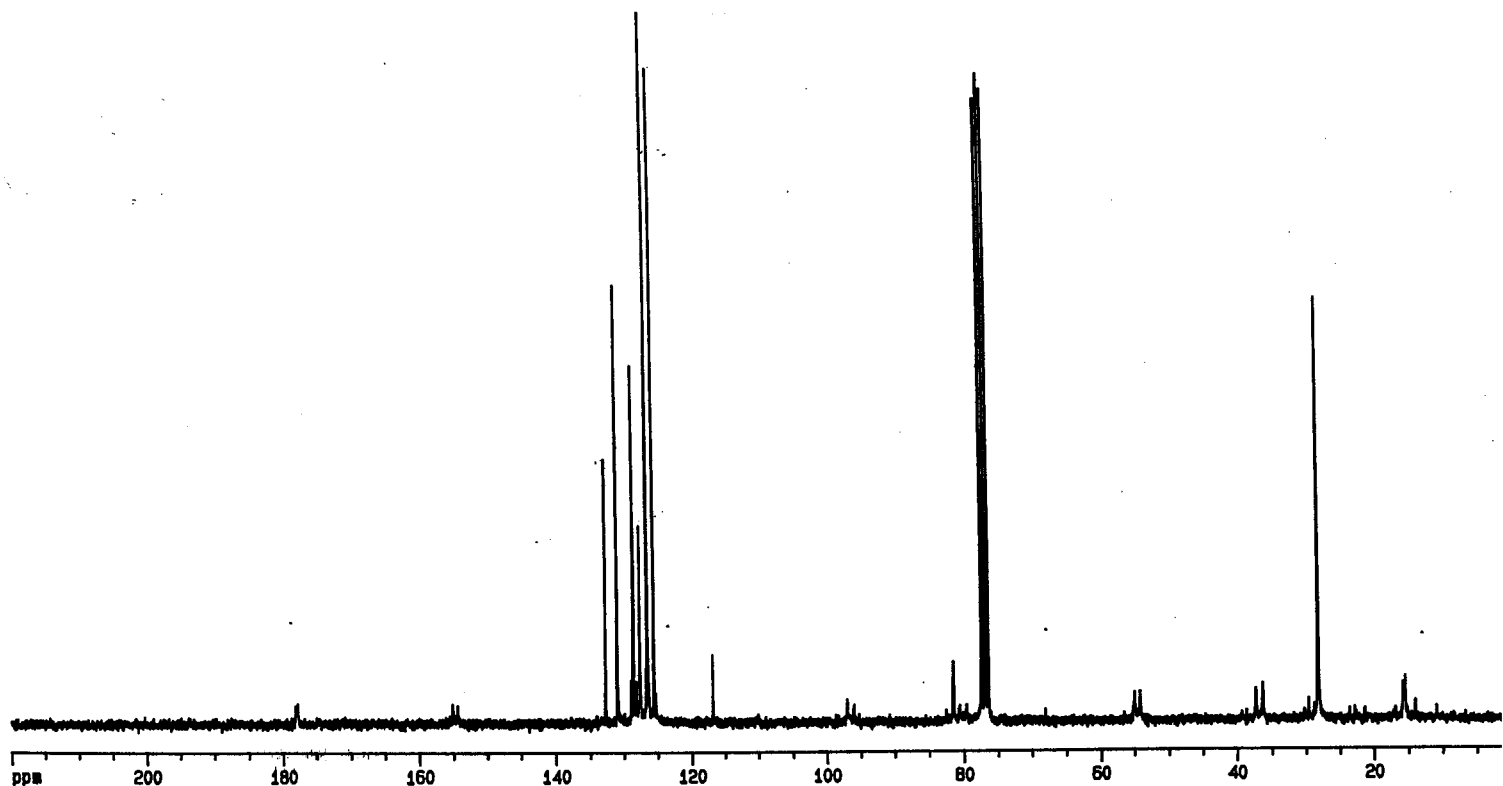
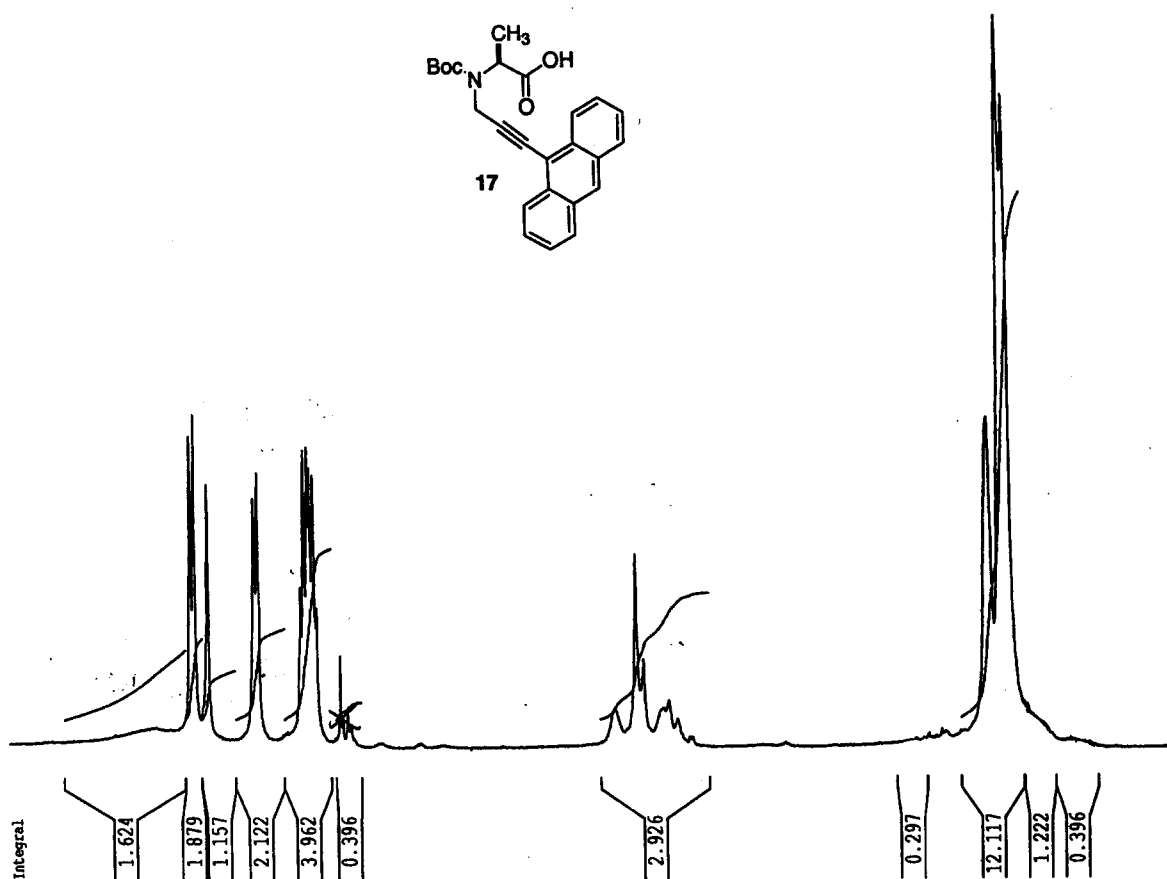


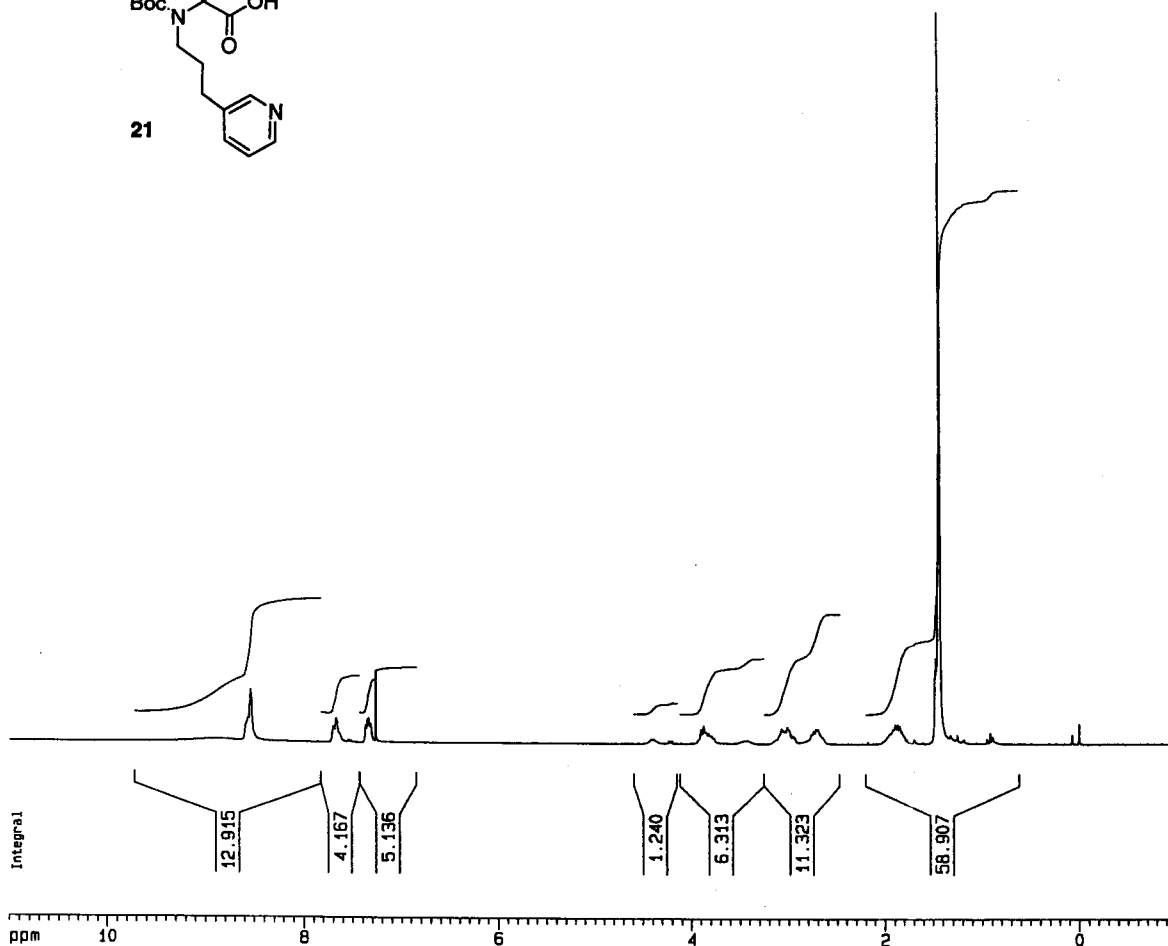
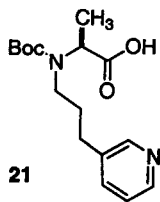
Current Data Parameters
 NAME jgpld264
 EXPRO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date 990825
 Time 13.22
 INSTRUM spect
 PROBHD 5 mm Dual 13
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 5144.033 Hz
 FIDRES 0.156983 Hz
 AQ 3.1850996 sec
 RG 203.2
 DW 97.200 usec
 DE 10.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 9.75 usec
 DE 10.50 usec
 SFO1 250.1315447 MHz
 NUCLEUS off

F2 - Processing parameters
 SI 16384
 SF 250.1300341 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 10.000 ppm
 F1 2501.30 Hz
 F2P 0.000 ppm
 F2 0.00 Hz
 PPMCM 0.50000 ppm/cm
 HCM 125.06502 Hz/cm



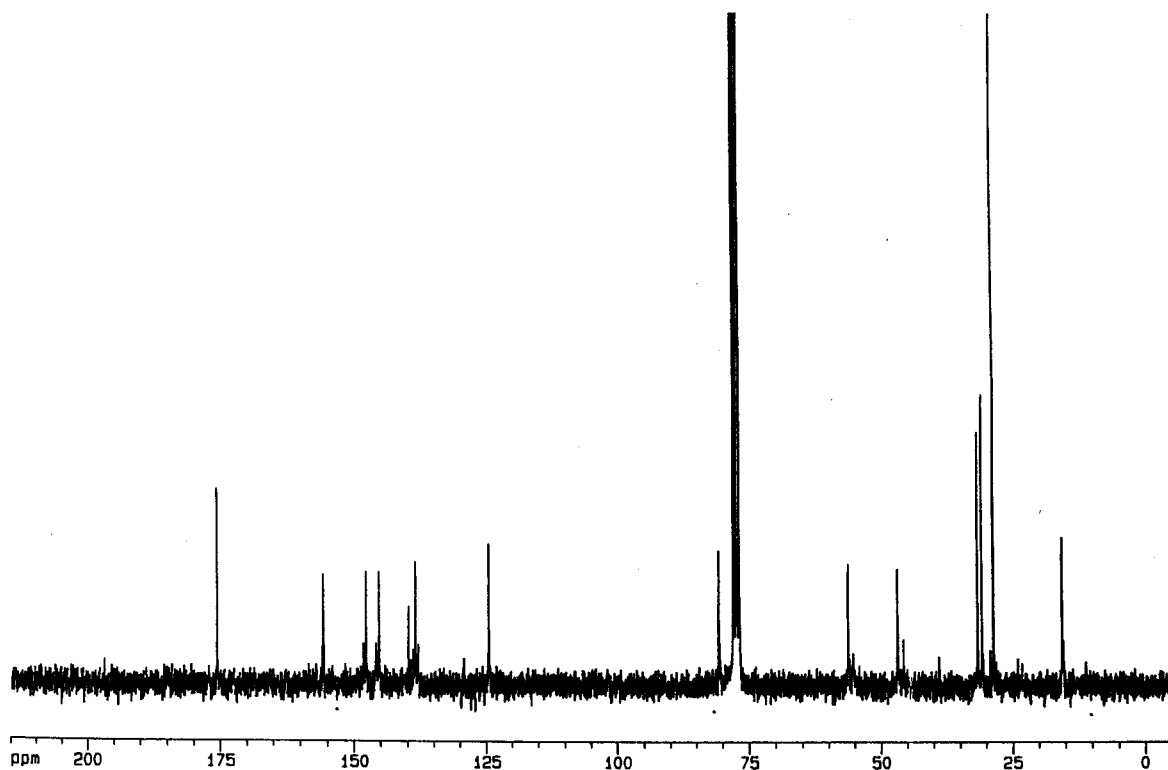


Current Data Parameters
NAME jgpldpyr
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010207
Time 9.34
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 32768
SOLVENT CDC13
NS 16
DS 2
SWH 5144.033 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 sec
RG 362
DW 97.200 usec
DE 10.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 9.75 usec
SF01 250.1315447 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 250.1300046 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 11.000 ppm
F1 2751.43 Hz
F2P -1.000 ppm
F2 -250.13 Hz
PPMCM 0.60000 ppm/cm
HZCM 150.07800 Hz/cm



SOLVENT CDC13
NS 6500
DS 2
SWH 19841.270 Hz
FIDRES 0.302754 Hz
AQ 1.6515572 sec
RG 6192
DM 25.200 usec
DE 10.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 18.00 dB
D1 2.00000000 sec
CPOPRG2 waltz16
PCPD2 100.00 usec
SF02 250.1310005 MHz
NUC2 13C
PL2 -6.00 dB
PL12 16.00 dB
P1 9.50 usec
SF01 62.9031573 MHz
NUC1 13C
PL1 -2.00 dB
D11 0.03000000 sec

F2 - Processing parameters
SI 32768
SF 62.8952140 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 215.000 ppm
F1 13522.47 Hz
F2P -5.000 ppm
F2 -314.48 Hz
PPMCM 11.00000 ppm/cm
HZCM 691.64735 Hz/cm