

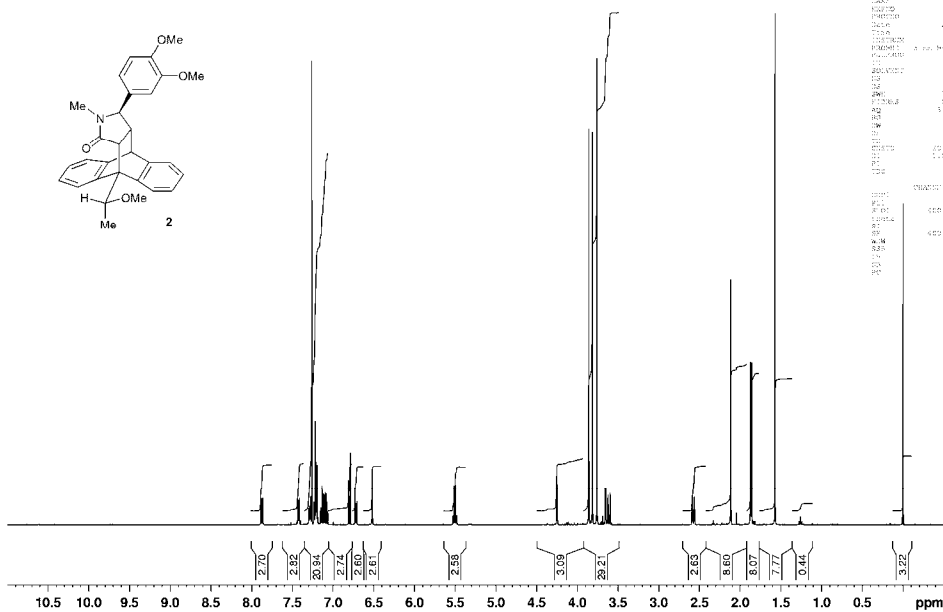
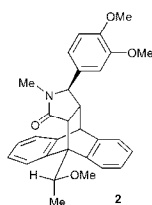
Supporting Information

Synthesis of quaternary stereogenic centres via stereoselective intermolecular Friedel-Crafts reactions.

Jennifer C. Ball,^a Robert Gleave^b and Simon Jones^{a*}

Copies of ¹H & ¹³C NMR spectra.

HNC148278
N12118-48-A3
JB547563
Position: 35, Column fractions 14-17, Ball, Jennifer X



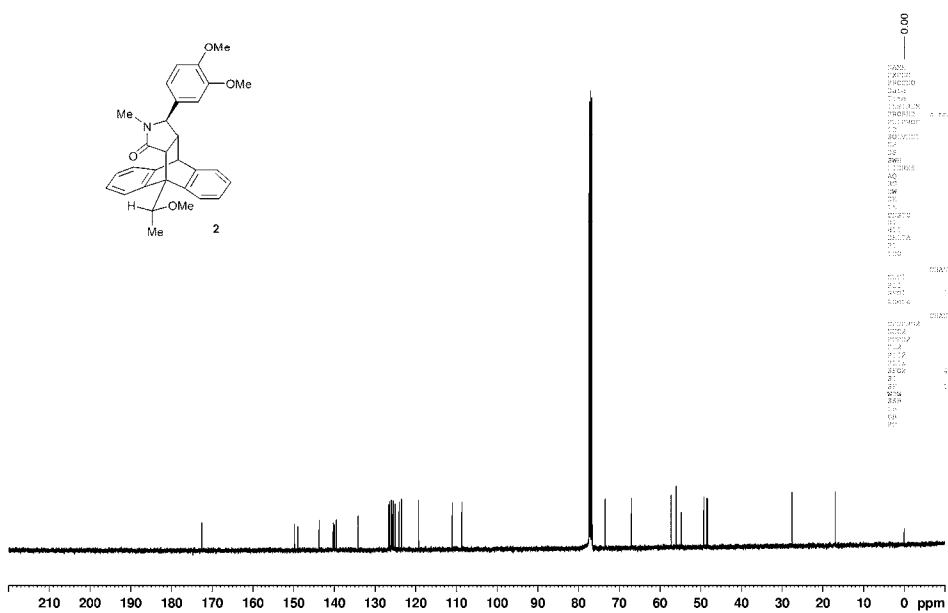
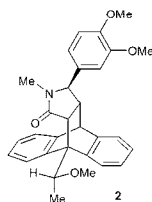
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N12118-48-A3
JB547563
Position: 35, Column fractions 14-17, Ball, Jennifer X



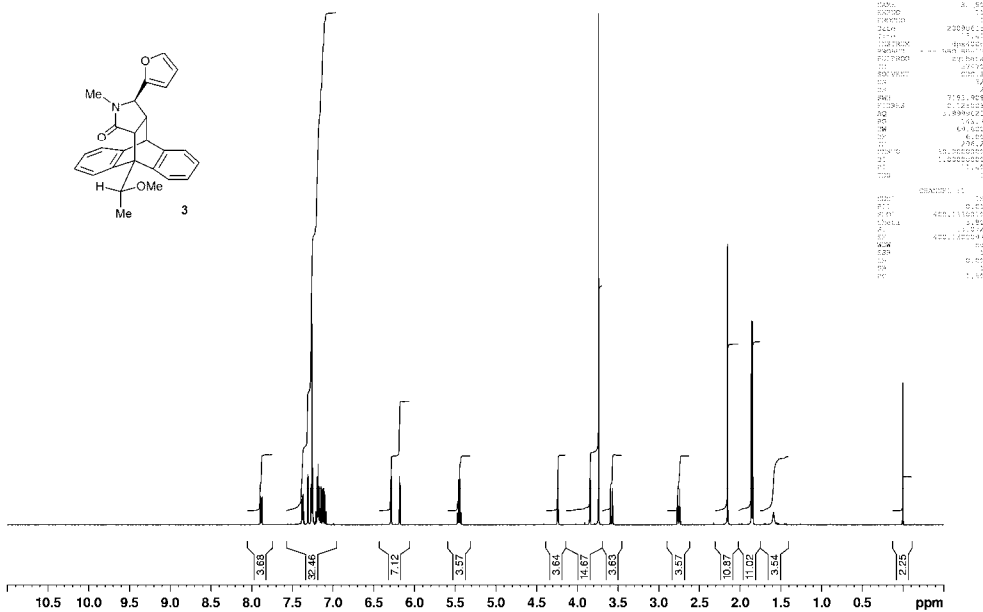
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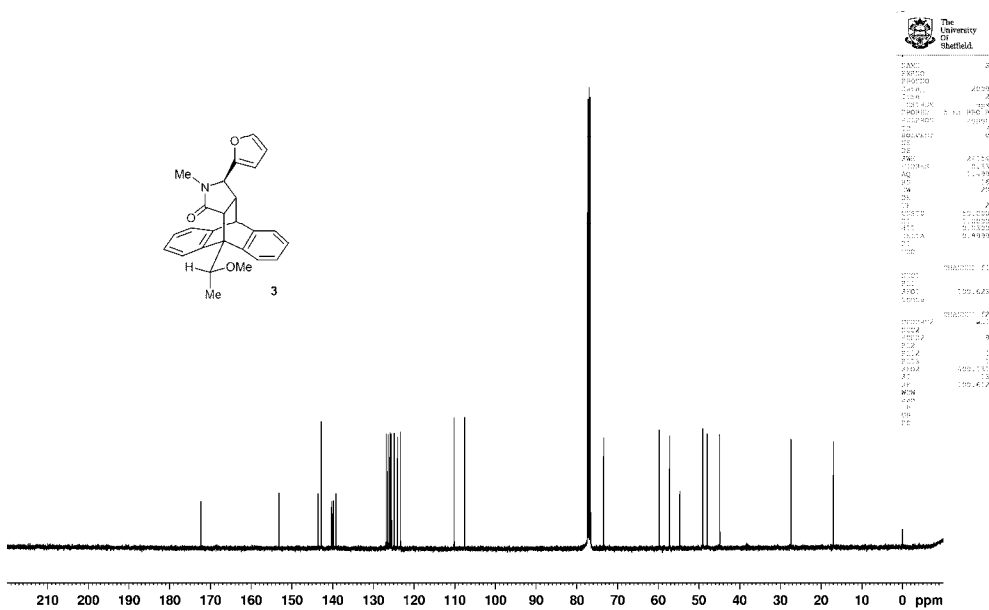
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SWH: 3181.908 Hz
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RG: 3.8996222
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PC: 4.00000000
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DE: 0.00000000
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D1: 1.00
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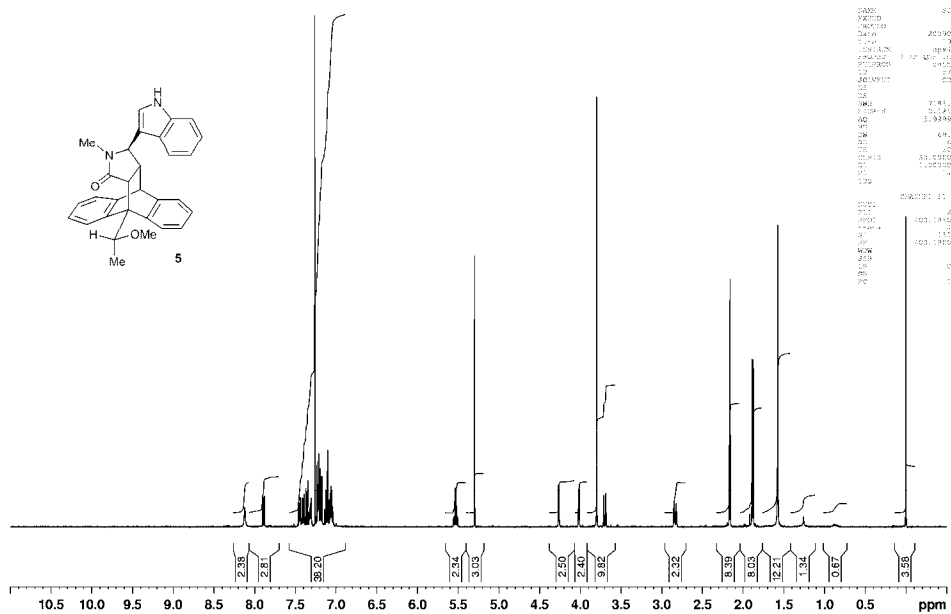
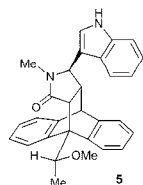
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Position: 60, Purified,Ball, Jennifer X



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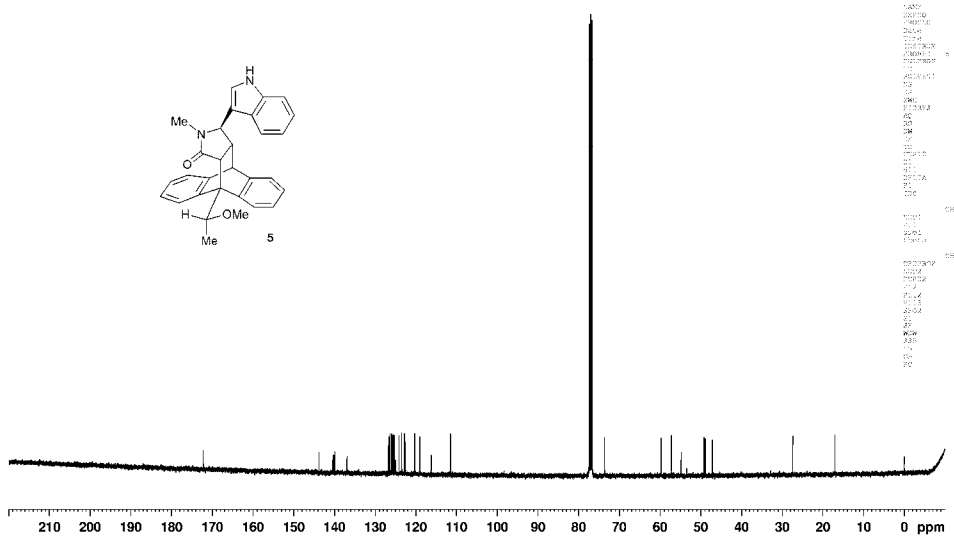
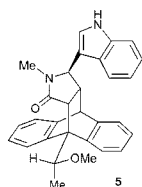
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PCPC: 1.00000000

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N12118-59-A1
JB547563
Position: 16, ...Ball, Jennifer X



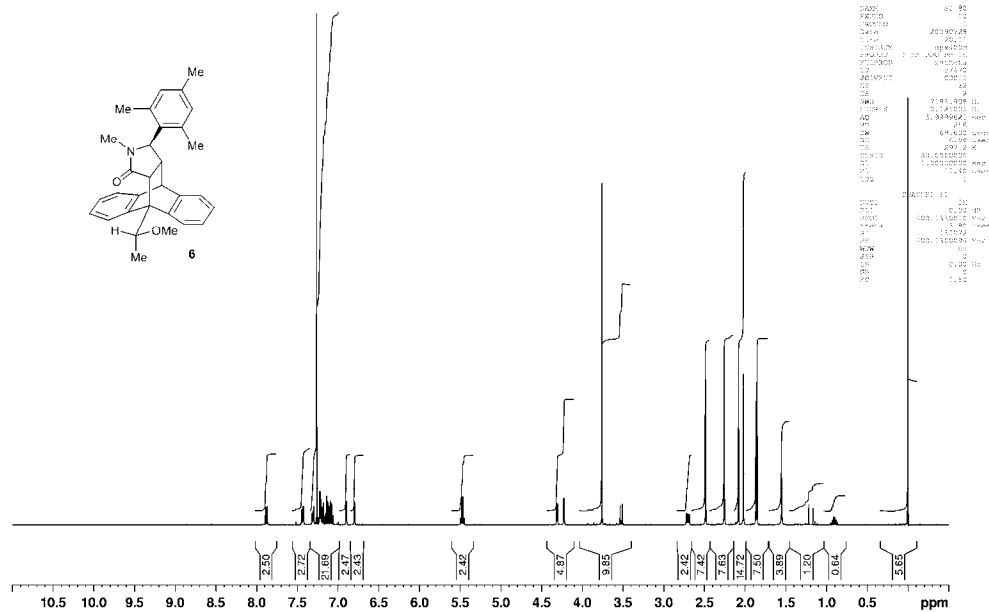
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RG 320
AQ 0.1963530
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WDW EM
SSB 0
LB 3.00
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N12118-59-A1
JB547563
Position: 16, ...Ball, Jennifer X

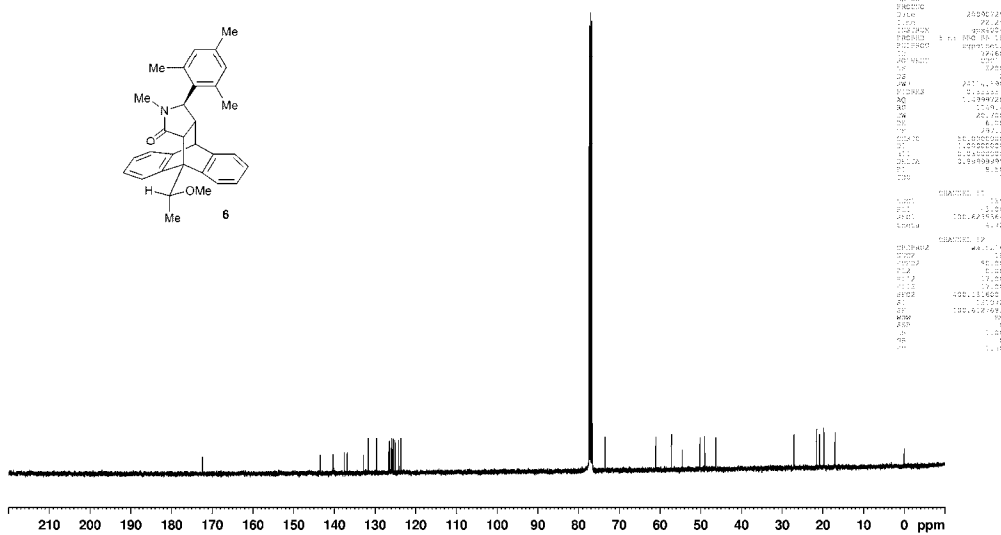


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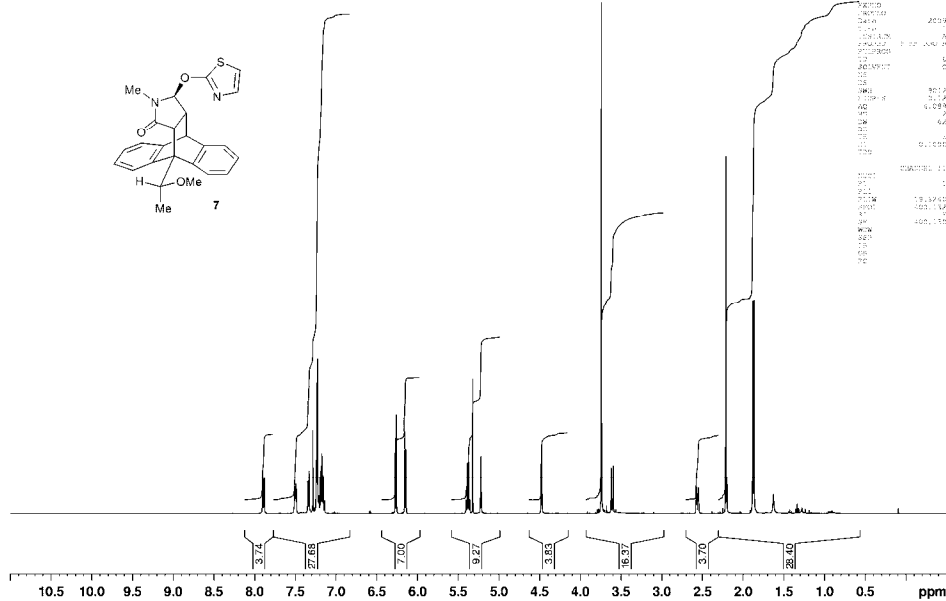
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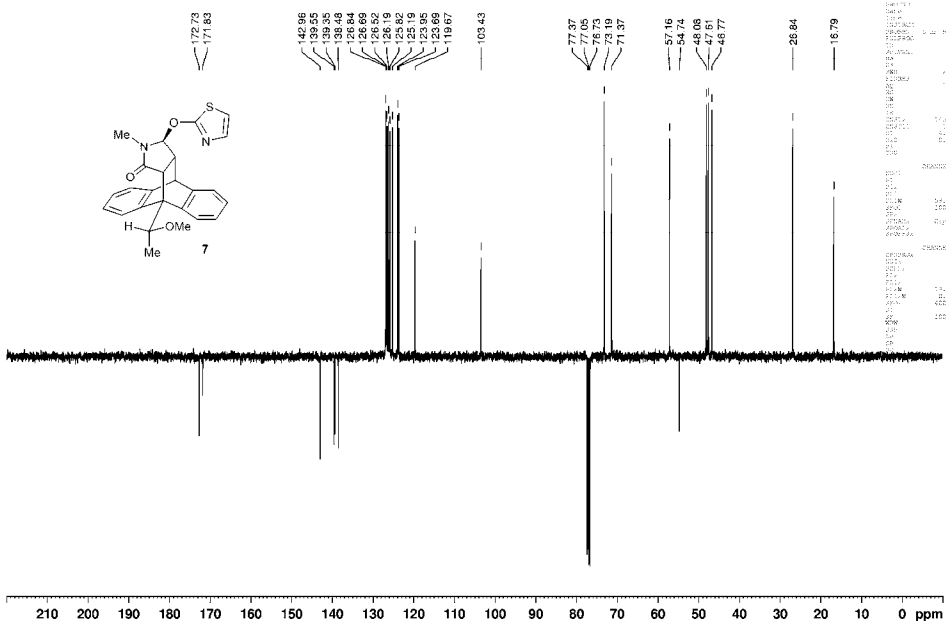
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 Position: 4, Column fractions 31-45, Ball, Jennifer X



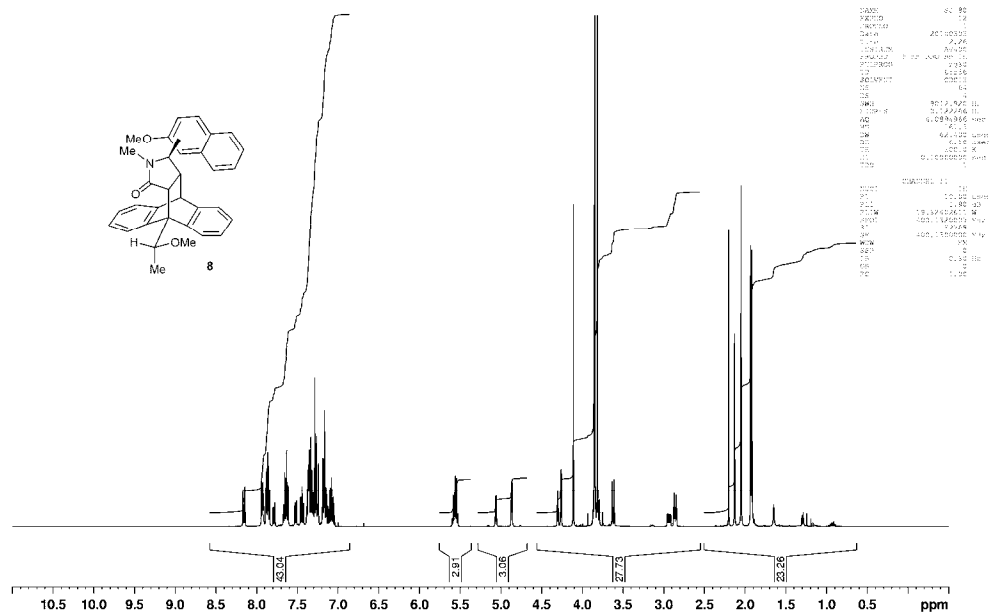
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PRO CDCl₃ (C:\11no2009) ch3sj 38



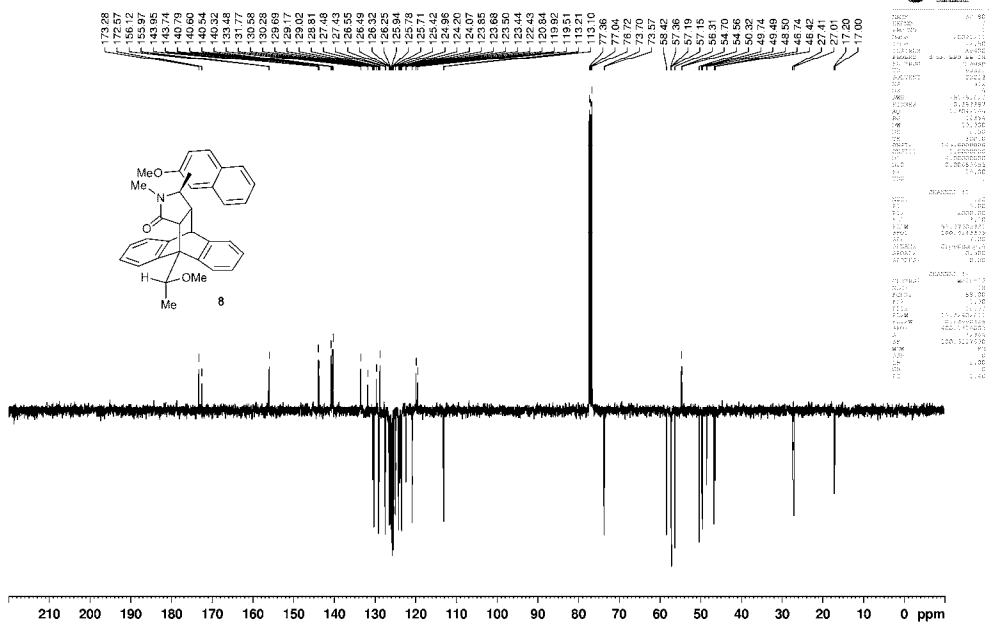
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JB-GSK-64
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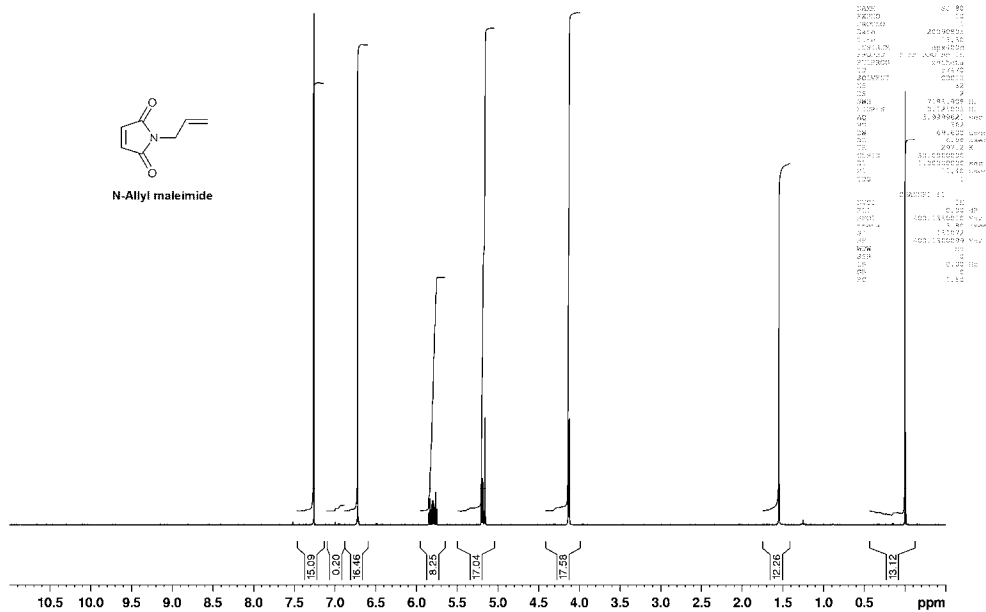


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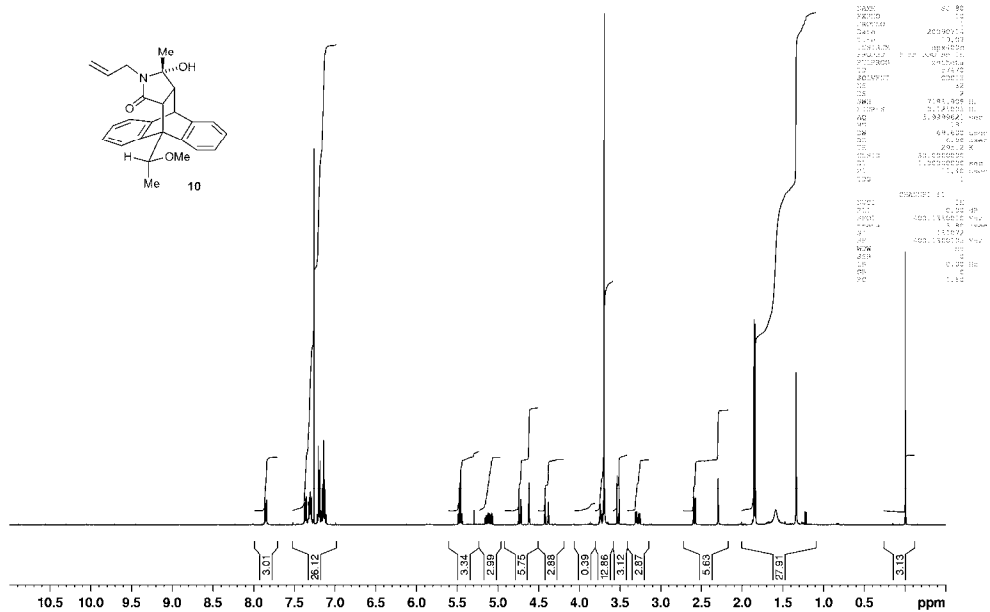
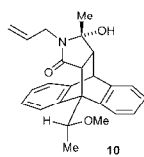
Position: 24, Column fractions 19-24, Ball, Jennifer X



N-Allyl maleimide

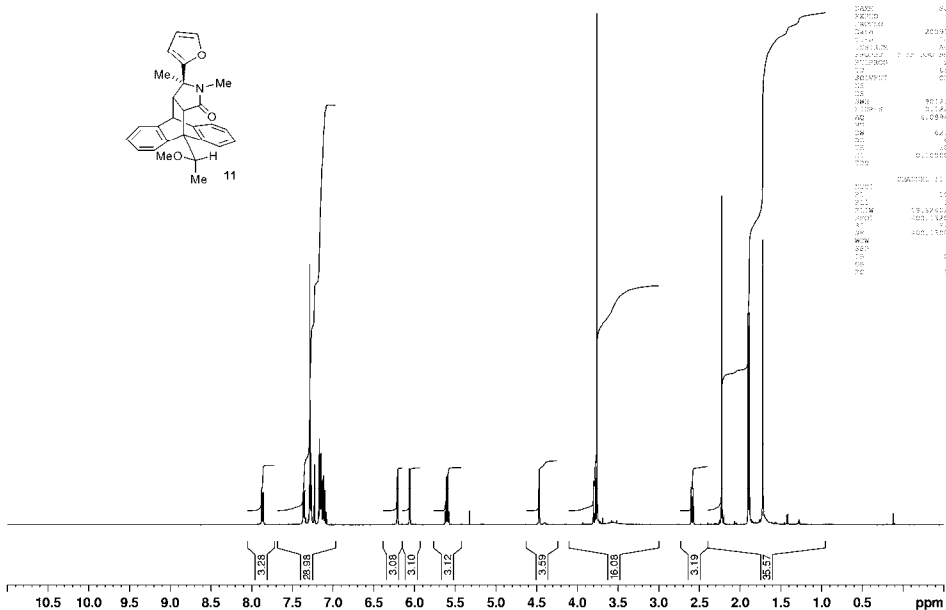
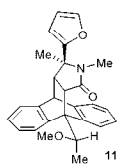


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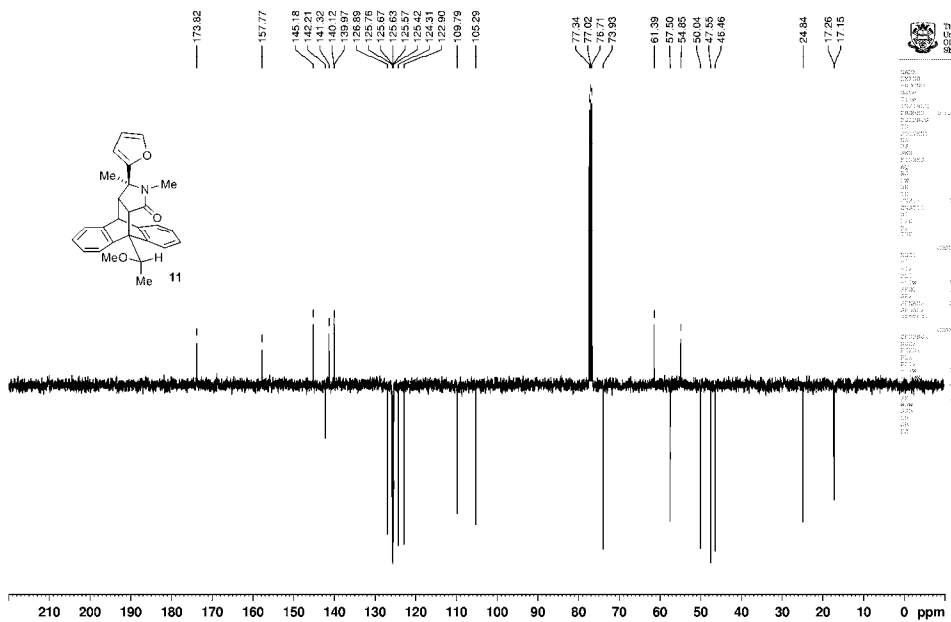
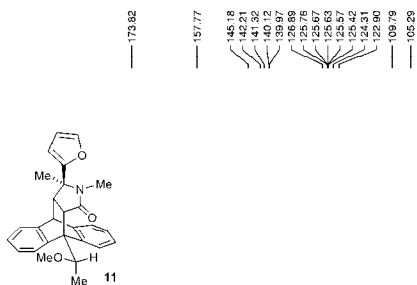
JB 557/1 (Crude)
 PRO CDCl3 (C:\10oc2009) ch3sj 21



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NAME          JB 557
EXPNO         1
PROCNO        1
F2 - F1       200.132
Date_         20091221
Time          17.52
INSTRUM       spect
PROBHD        5 mm
PULPROG       zgpg30
PCPDPRG       zgpg30
AQ            0.38000000
RG            64
SFO            200.132
SF            500.13176
WDW            EM
SSB            GB
LB            3.00
GB            0.10000000
PC            1.00
=====
NAME          JB 557
EXPNO         1
PROCNO        1
F2 - F1       200.132
Date_         20091221
Time          17.52
INSTRUM       spect
PROBHD        5 mm
PULPROG       zgpg30
PCPDPRG       zgpg30
AQ            0.38000000
RG            64
SFO            200.132
SF            500.13176
WDW            EM
SSB            GB
LB            3.00
GB            0.10000000
PC            1.00
    
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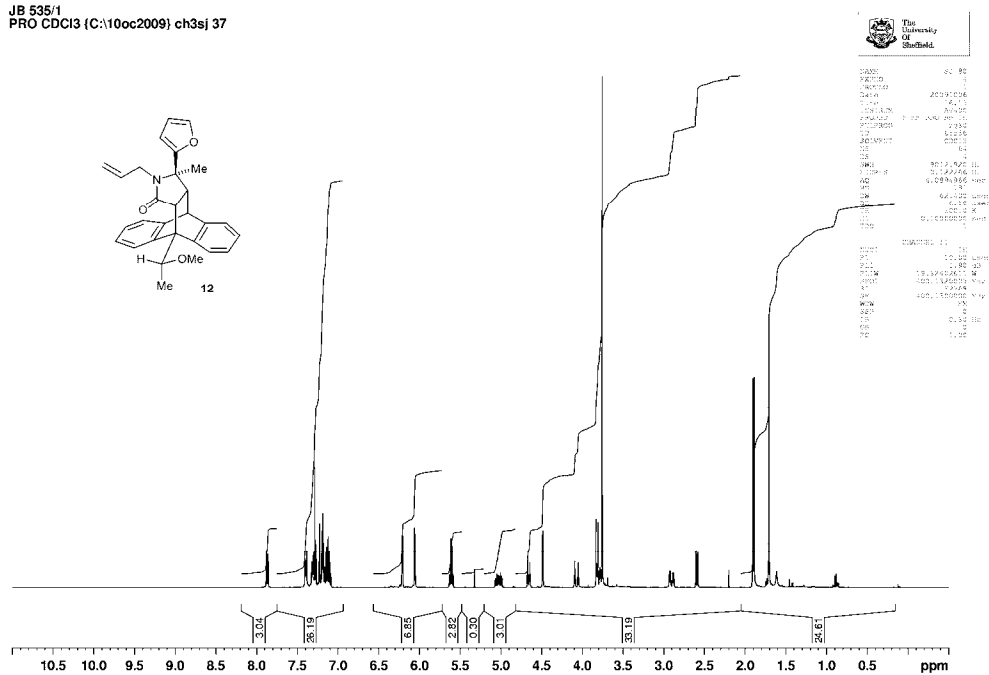
JB 557/1
 JMOD250PPM CDCl3 (C:\10oc2009) ch3sj 44



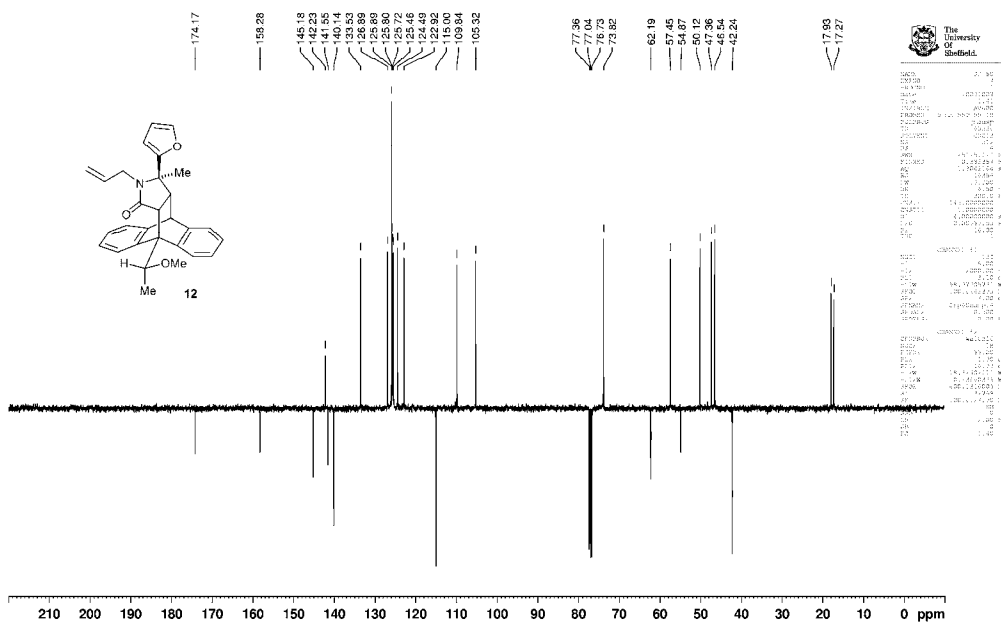
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NAME          JB 557
EXPNO         1
PROCNO        1
F2 - F1       200.132
Date_         20091221
Time          17.52
INSTRUM       spect
PROBHD        5 mm
PULPROG       zgpg30
PCPDPRG       zgpg30
AQ            0.38000000
RG            64
SFO            200.132
SF            500.13176
WDW            EM
SSB            GB
LB            3.00
GB            0.10000000
PC            1.00
=====
NAME          JB 557
EXPNO         1
PROCNO        1
F2 - F1       200.132
Date_         20091221
Time          17.52
INSTRUM       spect
PROBHD        5 mm
PULPROG       zgpg30
PCPDPRG       zgpg30
AQ            0.38000000
RG            64
SFO            200.132
SF            500.13176
WDW            EM
SSB            GB
LB            3.00
GB            0.10000000
PC            1.00
    
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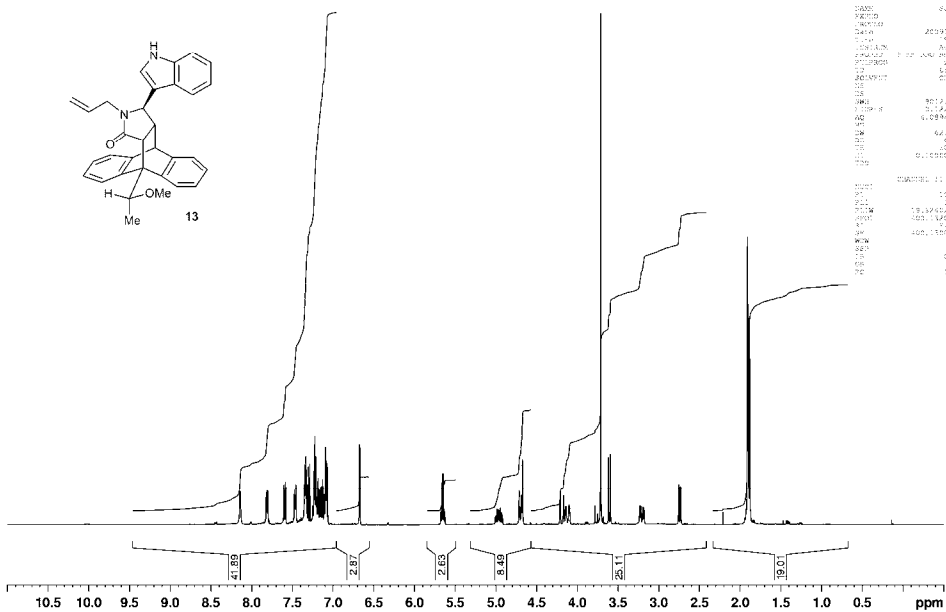
JB 535/1
 PRO CDCl3 [C:\10oc2009] ch3sj 37



JB 535/1
 JMOD250PPM CDCl3 [C:\10oc2009] ch3sj 1



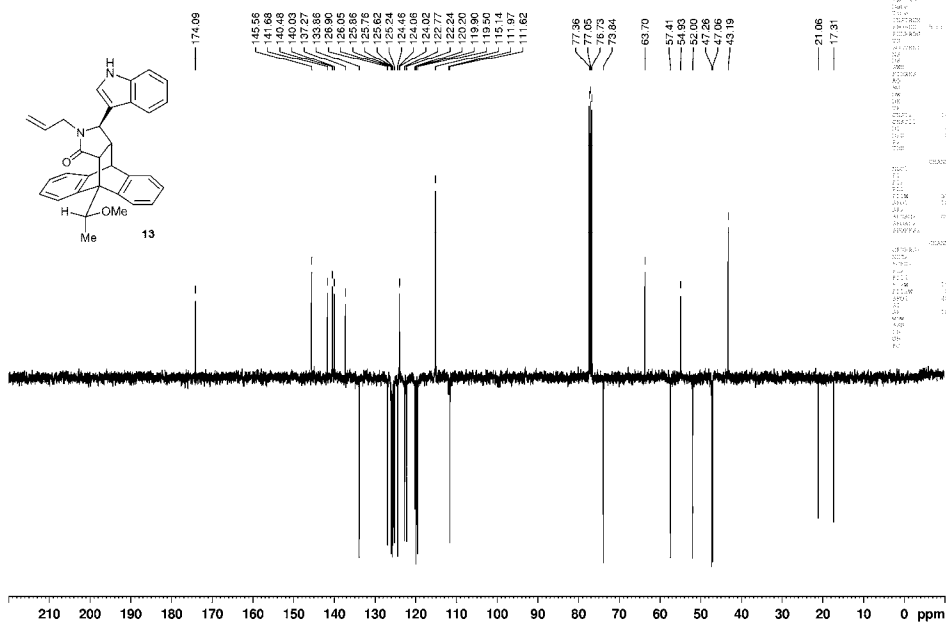
JB 537/1
 PRO CDCl3 {C:\11no2009} ch3sj 48



```

NAME          JB 537
EXPNO         1
PROCNO        1
Date_         20091226
Time          09.11
INSTRUM       spect
PROBHD        5 mm
PULPROG       zgpg30
PCPDPRG       zgpg30
AQ            0.10000000
RG            640
AQ            0.10000000
SI            65536
SF            400.1464000
WDW            EM
SSB            GB
LB            3.00
GB            0.10000000
PC            1.00
=====
NAME          JB 537
EXPNO         1
PROCNO        1
Date_         20091226
Time          09.11
INSTRUM       spect
PROBHD        5 mm
PULPROG       zgpg30
PCPDPRG       zgpg30
AQ            0.10000000
RG            640
AQ            0.10000000
SI            65536
SF            400.1464000
WDW            EM
SSB            GB
LB            3.00
GB            0.10000000
PC            1.00
    
```

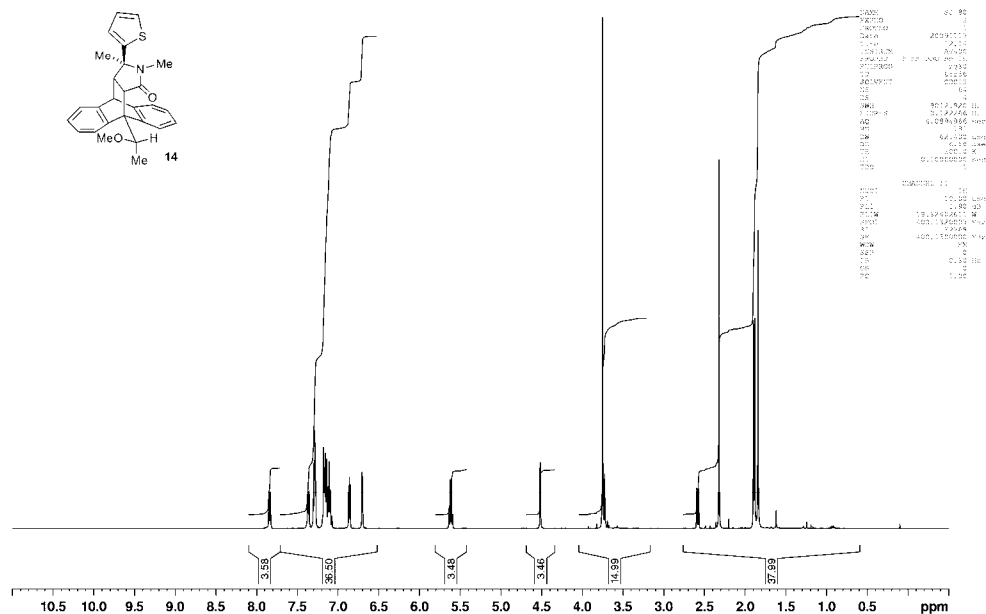
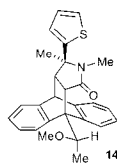
JB 537/1
 JMOD250PPM CDCl3 {C:\11no2009} ch3sj 48



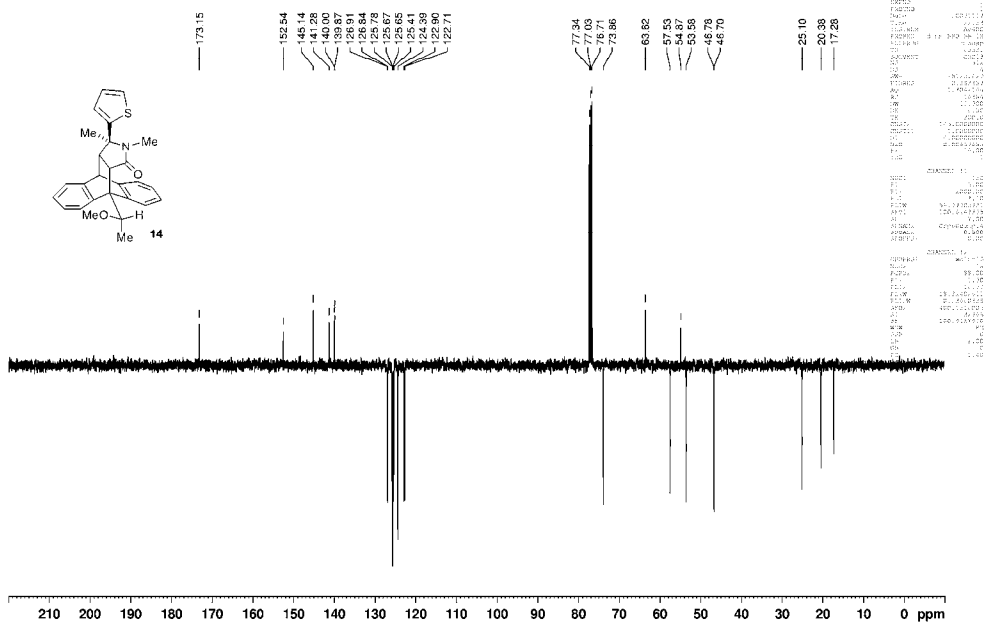
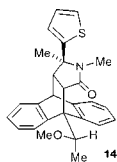
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NAME          JB 537
EXPNO         1
PROCNO        1
Date_         20091226
Time          09.11
INSTRUM       spect
PROBHD        5 mm
PULPROG       zgpg30
PCPDPRG       zgpg30
AQ            0.10000000
RG            640
AQ            0.10000000
SI            65536
SF            101.6254000
WDW            EM
SSB            GB
LB            3.00
GB            0.10000000
PC            1.00
=====
NAME          JB 537
EXPNO         1
PROCNO        1
Date_         20091226
Time          09.11
INSTRUM       spect
PROBHD        5 mm
PULPROG       zgpg30
PCPDPRG       zgpg30
AQ            0.10000000
RG            640
AQ            0.10000000
SI            65536
SF            101.6254000
WDW            EM
SSB            GB
LB            3.00
GB            0.10000000
PC            1.00
    
```

JB 562/1 (Col 2 fr 16-25)
 PRO CDCl₃ [C:\11no2009] ch3sj 13

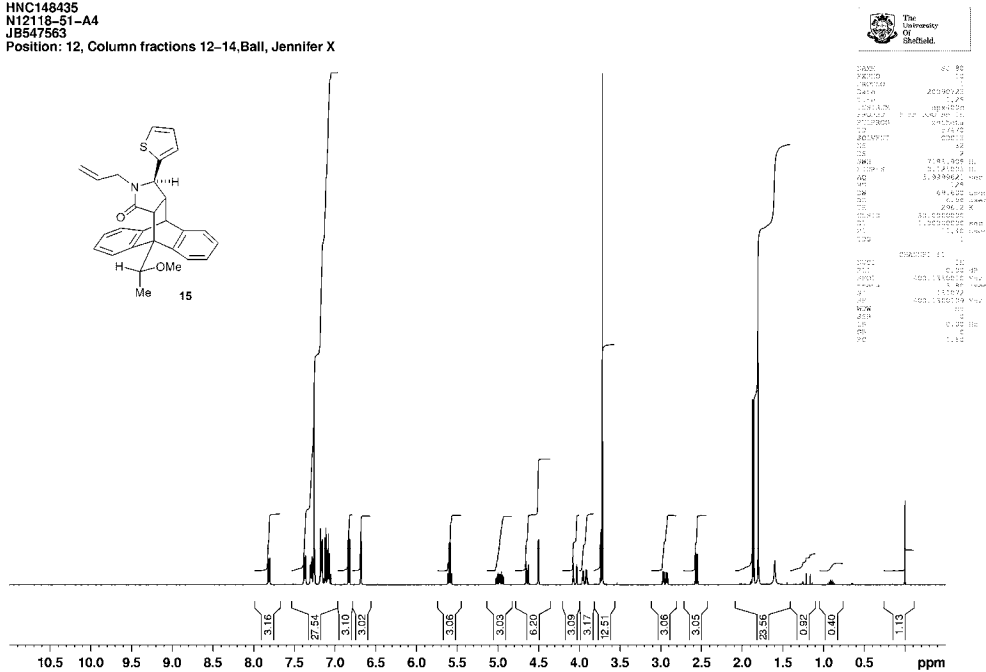


JB 562/1 (Col 2 fr 16-25)
 JMOD250PPM CDCl₃ [C:\11no2009] ch3sj 49



HNC148435
 N12118-51-A4
 JB547563

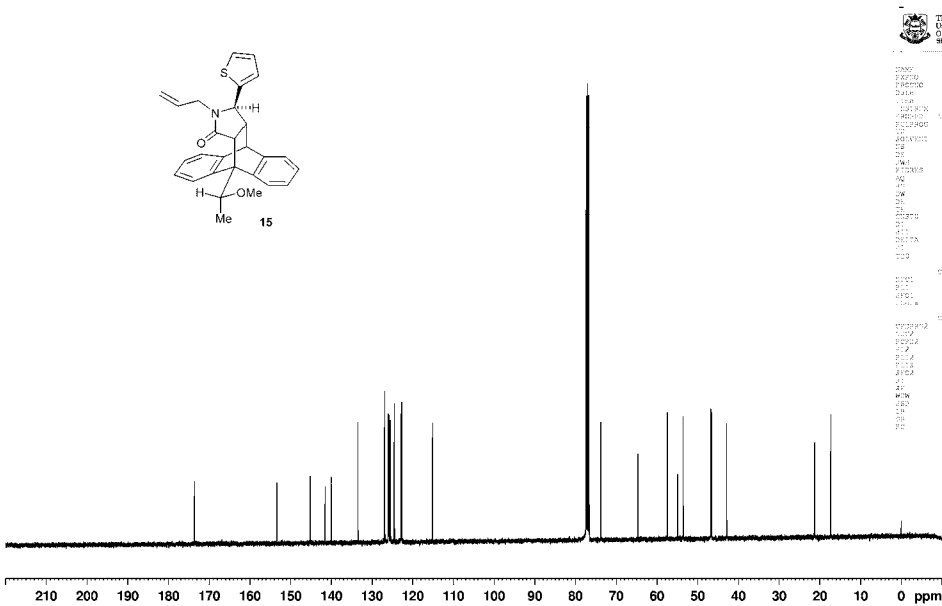
Position: 12, Column fractions 12-14, Ball, Jennifer X



NAME: 81 80
 EXPNO: 1
 PROCNO: 20200220
 DATE_ : 12/8
 TIME: 11:45:05
 INSTRUM: spect
 F2 - ACQ: 400.136
 F3 - ACQ: 400.136
 AQUEOUS: 0.000
 SOLVENT: DMSO
 NS: 512
 DS: 4
 SWH: 7.85428 Hz
 FIDRES: 0.141830 Hz
 AQ: 13.393564 sec
 SFO: 400.136 MHz
 P1: 6.00 usec
 PL1: 0.00 dB
 PL2: 2.00 usec
 PL2: 0.00 dB
 PL3: 1.00 usec
 PL3: 0.00 dB
 PL4: 1.00 usec
 PL4: 0.00 dB
 PL5: 1.00 usec
 PL5: 0.00 dB
 =====
 CHANNEL f1
 NU1: 13
 PR1: 0.00 dB
 FL1: 100.626360 MHz
 SC: 100.626360
 JO: 0.000000 MHz
 WDW: EM
 SSB: 0.000000
 GB: 0.000000
 PC: 1.00
 =====

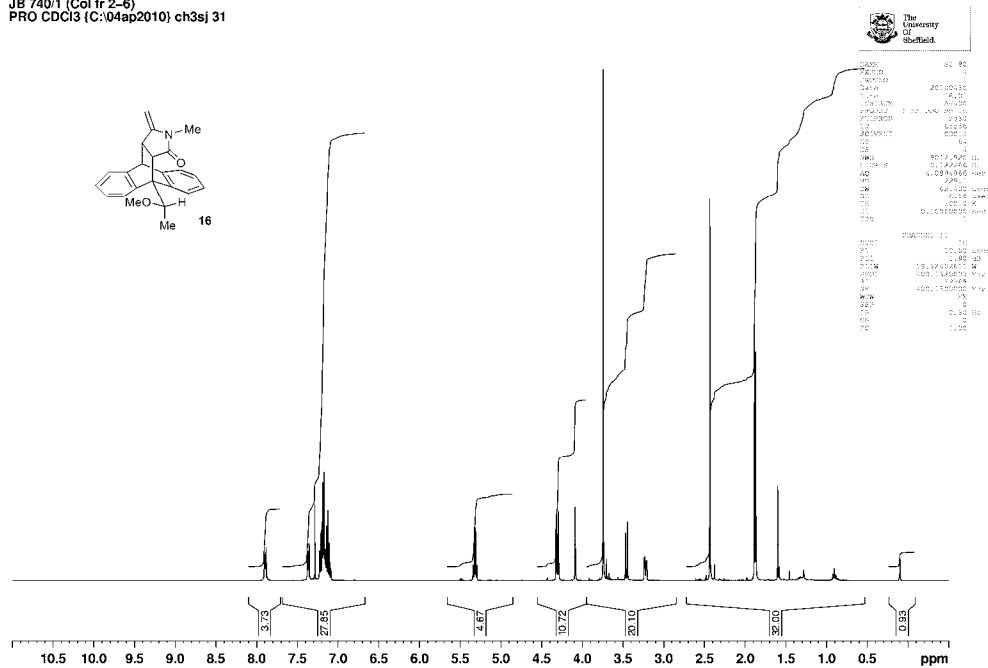
HNC148435
 N12118-51-A4
 JB547563

Position: 12, Column fractions 12-14, Ball, Jennifer X

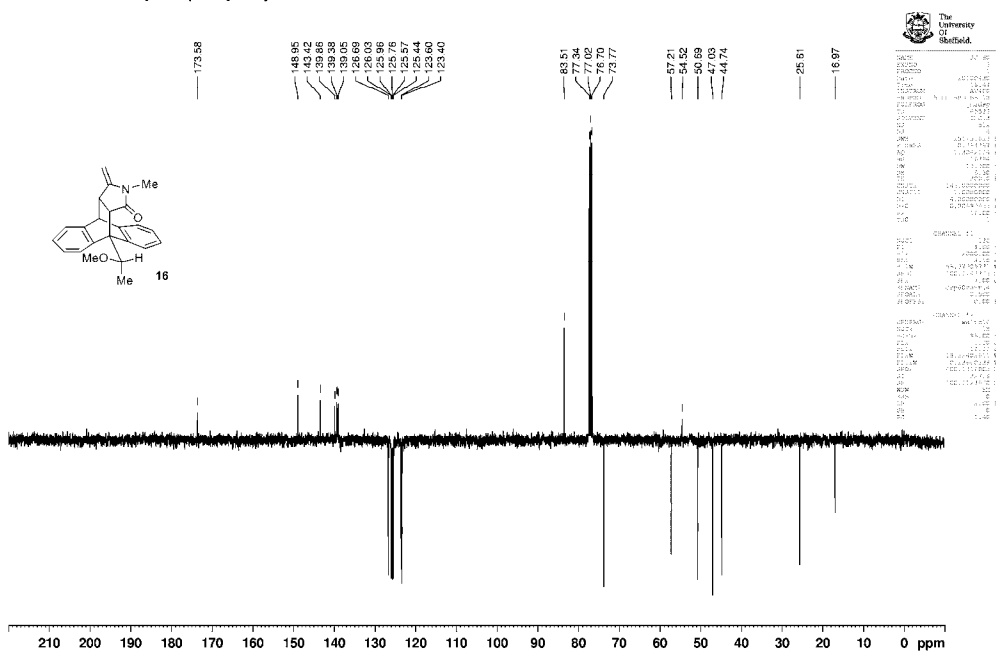


NAME: 81 8
 EXPNO: 1
 PROCNO: 20200220
 DATE_ : 12/8
 TIME: 11:45:05
 INSTRUM: spect
 F2 - ACQ: 400.136
 F3 - ACQ: 400.136
 AQUEOUS: 0.000
 SOLVENT: DMSO
 NS: 512
 DS: 4
 SWH: 7.85428 Hz
 FIDRES: 0.141830 Hz
 AQ: 13.393564 sec
 SFO: 400.136 MHz
 P1: 6.00 usec
 PL1: 0.00 dB
 PL2: 2.00 usec
 PL2: 0.00 dB
 PL3: 1.00 usec
 PL3: 0.00 dB
 PL4: 1.00 usec
 PL4: 0.00 dB
 PL5: 1.00 usec
 PL5: 0.00 dB
 =====
 CHANNEL f1
 NU1: 13
 PR1: 0.00 dB
 FL1: 100.626360 MHz
 SC: 100.626360
 JO: 0.000000 MHz
 WDW: EM
 SSB: 0.000000
 GB: 0.000000
 PC: 1.00
 =====

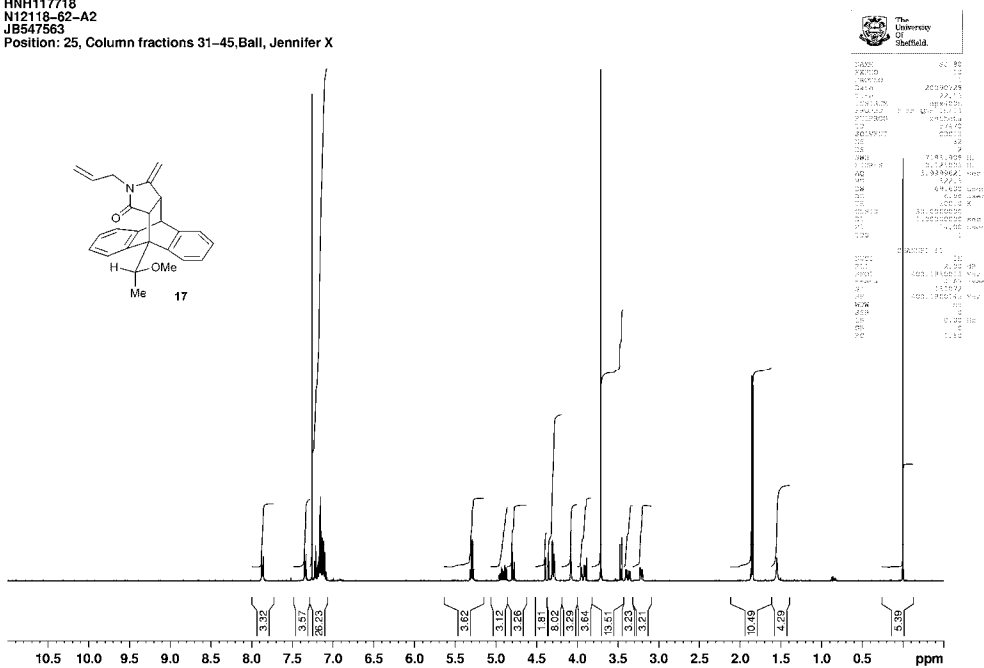
JB 740/1 (Col fr 2-6)
 PRO CDCl3 [C:\04ap2010\ ch3sj 31



JB 740/1 (Col fr 2-6)
 JMOD250PPM CDCl3 [C:\04ap2010\ ch3sj 41

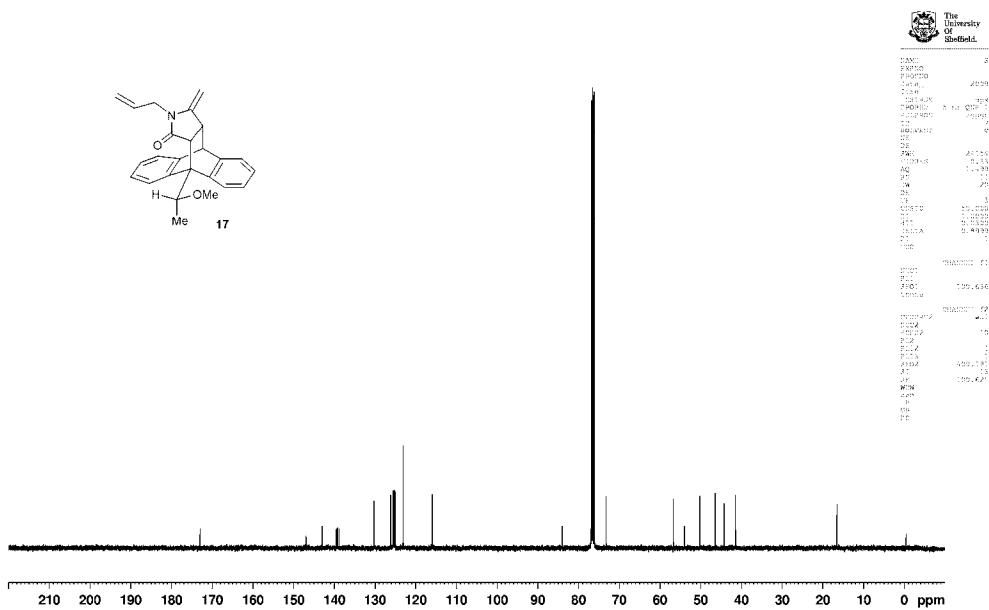


HNH117718
N12118-62-A2
JB547563
Position: 25, Column fractions 31-45, Ball, Jennifer X



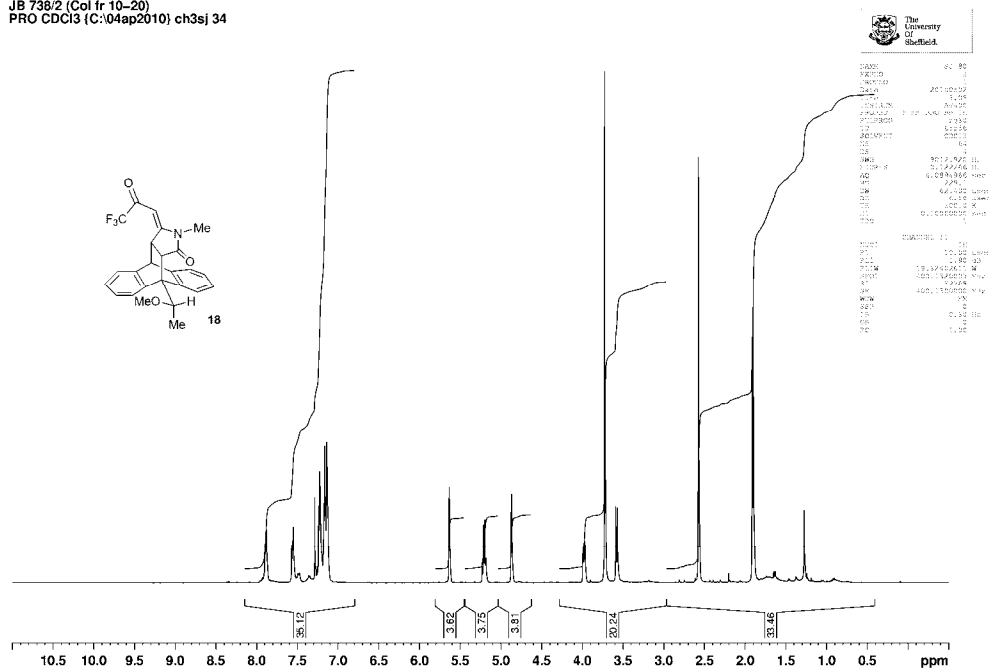
| NAME | EXPNO | PROCNO |
|-----------|---------------|--------|
| HNH117718 | 1 | 1 |
| PROBHD | 1 | 1 |
| DATA | 20230228 | |
| TIME | 8:21 | |
| INSTRUM | nmr1 | |
| PROBHD | 5mm QNP 1H/13 | |
| PROCNO | 1 | |
| EXPNO | 1 | |
| F2 - H1 | 400.146 | |
| F2 - H13 | 101.253 | |
| TD | 65536 | |
| WDW | EM | |
| SSB | 0 | |
| LB | 0.30 | |
| GB | 0 | |
| PC | 1.00 | |
| RG | 327.5 | |
| ACQ | 1.00 | |
| DELTA | 0.00 | |
| TE | 300.2 | |
| D1 | 1.50 | |
| DELTA2 | 0.00 | |
| TD0 | 1 | |
| TD1 | 1 | |
| TD2 | 1 | |
| TD3 | 1 | |
| TD4 | 1 | |
| TD5 | 1 | |
| TD6 | 1 | |
| TD7 | 1 | |
| TD8 | 1 | |
| TD9 | 1 | |
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HNH117718
N12118-62-A2
JB547563
Position: 25, Column fractions 31-45, Ball, Jennifer X

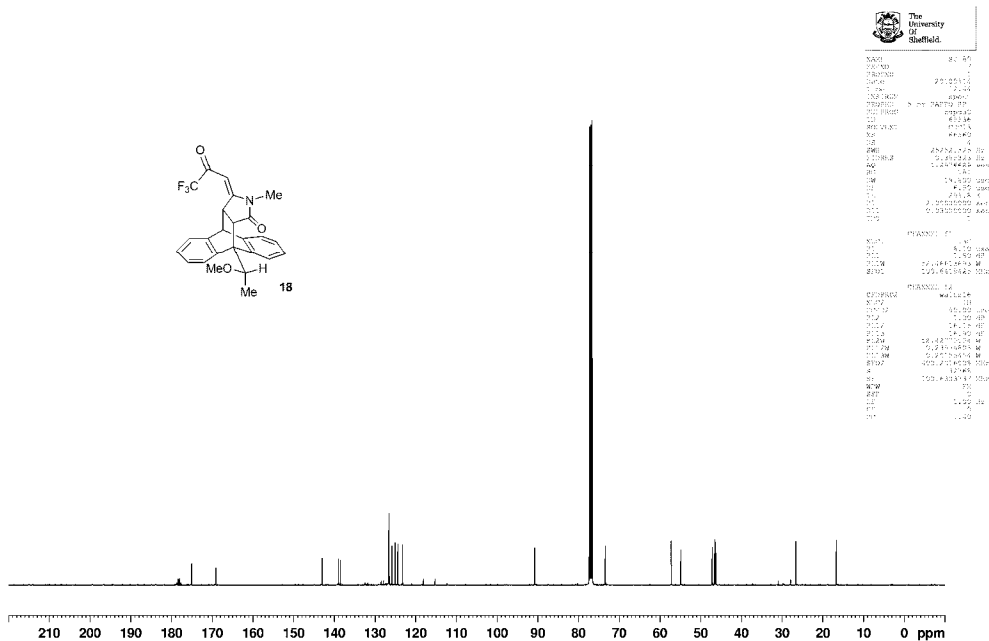


| NAME | EXPNO | PROCNO |
|-----------|---------------|--------|
| HNH117718 | 1 | 1 |
| PROBHD | 1 | 1 |
| DATA | 20230228 | |
| TIME | 8:21 | |
| INSTRUM | nmr1 | |
| PROBHD | 5mm QNP 1H/13 | |
| PROCNO | 1 | |
| EXPNO | 1 | |
| F2 - H1 | 400.146 | |
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| TE | 300.2 | |
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| DELTA2 | 0.00 | |
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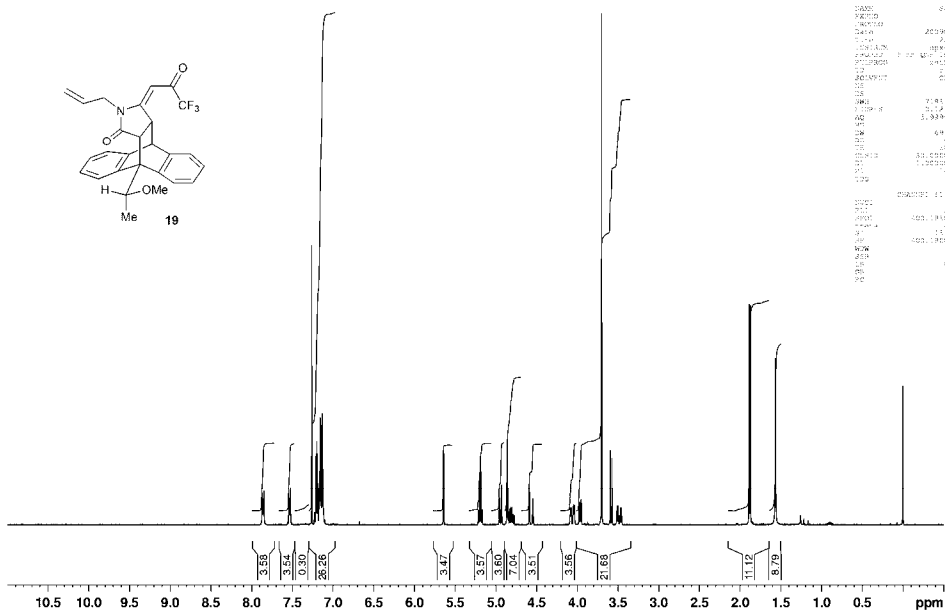
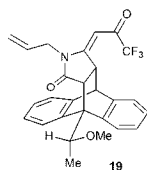
JB 738/2 (Col 1r 10-20)
 PRO CDCl3 (C:\04ap2010) ch3sj 34



Jennifer Ball E28 sample ref. JB738 in CDCl3



HNH117553
 N12118-51-A3
 JB547563
 Position: 40, Column fractions 9-10, Ball, Jennifer X

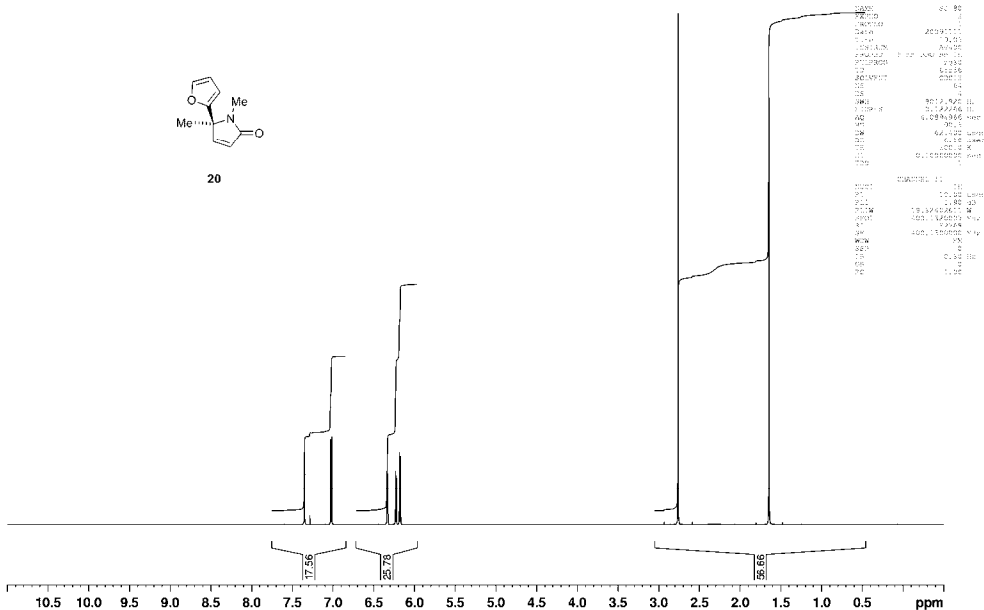


| The University of Sheffield | |
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| PROBHD | 5mm QNP1H |
| PROCPRG | zgpg30 |
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| F1 | 125.76 |
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| NUC2 | ¹ H |
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JB 565/1 (Column fractions 26-32)
 PRO CDCl₃ (C:\11no2009) ch3sj 52



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JB 565/1 (Column fractions 26-32)
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