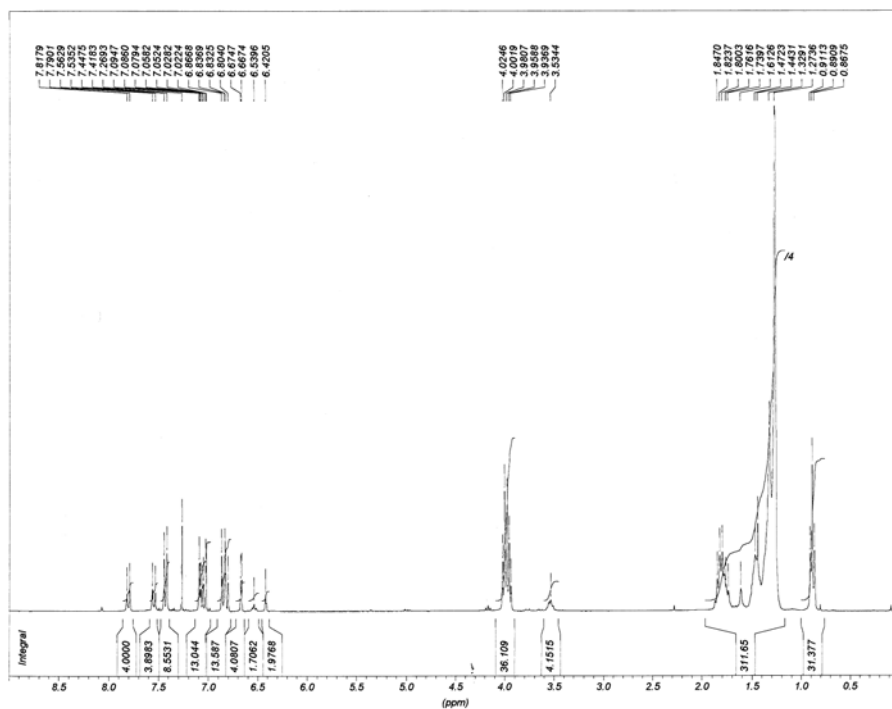


Compound 1:

¹H NMR

yoyo327CDCI3

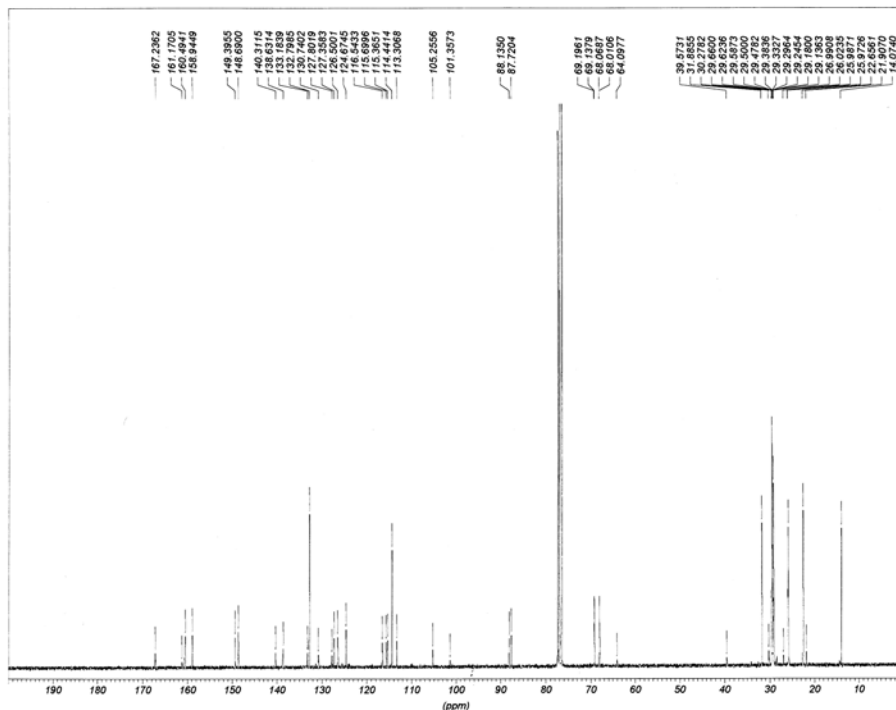


```

*** Current Data Parameters ***
NAME      : yoy327h1
EXPNO    : 1
PROCNO   : 0
*** Acquisition Parameters ***
D[1]     : 1.0000000 sec
DATE_d   : Apr 22 2003
DE       : 6.5 usec
DS       : 2
LOCNUC  : 2H
NS       : 16
NUC1    : 1H
O1      : 1503.32 Hz
P[1]    : 11.0 usec
QNP     : 1
RG      : 228.1000061
SFO1    : 300.1315033 MHz
SOLVENT : CDCl3
SW      : 11.9679 ppm
TD      : 32768
TE      : 300.0 K
*** Processing Parameters ***
LB      : 0.30 Hz
OFFSET  : 10.982 ppm
SF      : 300.1300030 MHz
SI      : 16384
*** 1D NMR Plot Parameters ***
SR      : 3.41 Hz
Hz_cm   : 114.80
AQ_time : 4.5613060 sec
SOLVENT : ?
    
```

¹³C NMR

yoyo327 CDCI3



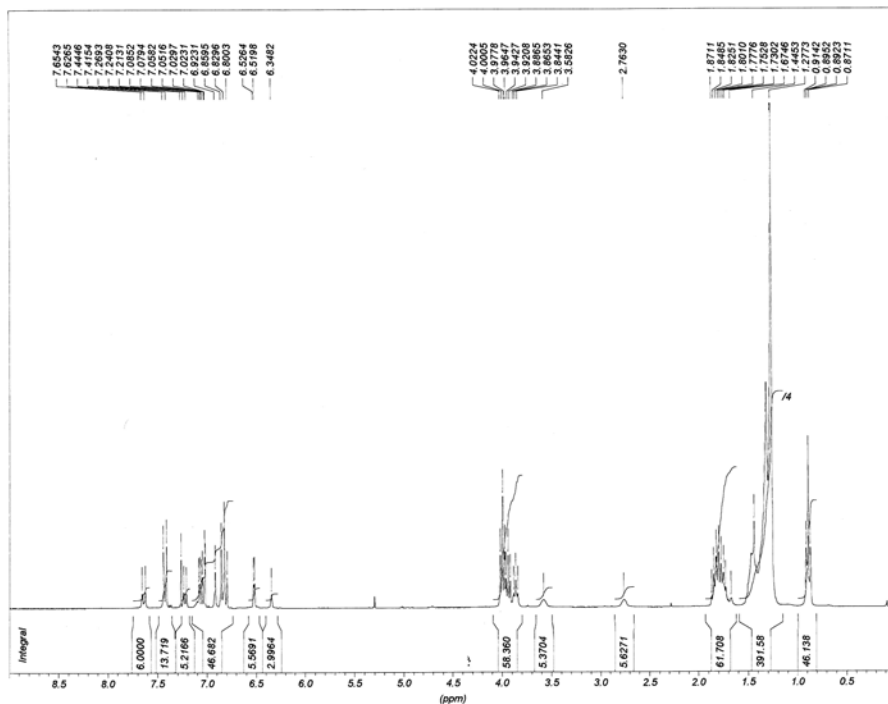
```

*** Current Data Parameters ***
NAME      : yoy327c1
EXPNO    : 1
PROCNO   : 0
*** Acquisition Parameters ***
D[1]     : 2.0000000 sec
DATE_d   : Apr 23 2003
DE       : 6.5 usec
DS       : 4
LOCNUC  : 2H
NS       : 13869
NUC1    : 13C
O1      : 7546.30 Hz
P[1]    : 8.4 usec
QNP     : 1
RG      : 8192.0000000
SFO1    : 75.4752953 MHz
SOLVENT : CDCl3
SW      : 238.2980 ppm
TD      : 65536
TE      : 300.0 K
*** Processing Parameters ***
LB      : 0.30 Hz
OFFSET  : 219.107 ppm
SF      : 75.4677530 MHz
SI      : 32768
*** 1D NMR Plot Parameters ***
SR      : 3.58 Hz
Hz_cm   : 641.46
AQ_time : 1.8219010 sec
SOLVENT : ?
    
```


Compound 2:

¹H NMR

yoyo328 CDCl₃

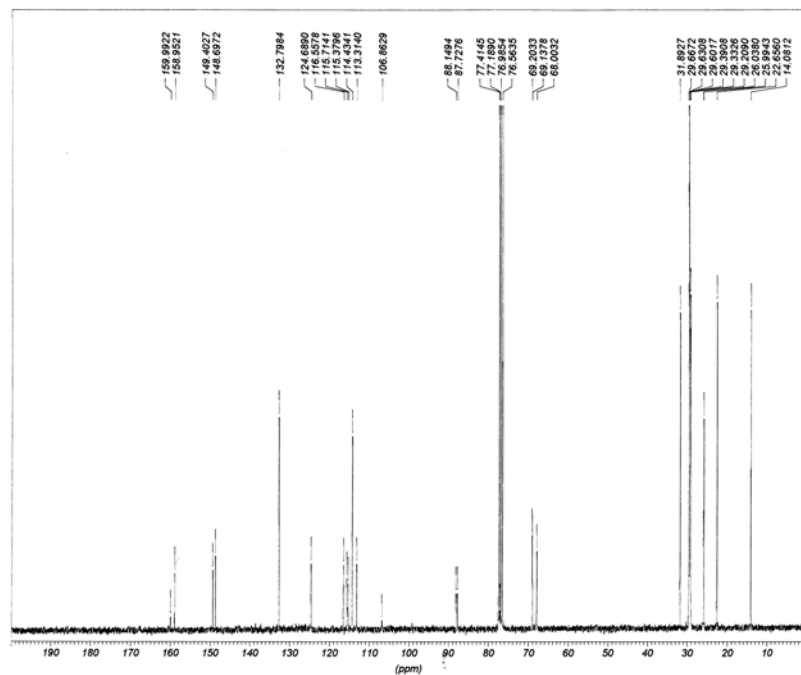


```

*** Current Data Parameters ***
NAME      : yoy328h1
EXPNO    : 1
PROCNO   : 0
*** Acquisition Parameters ***
D[1]     : 1.0000000 sec
DATE_d   : Apr 28 2003
DE       : 6.5 usec
DS       : 2
LOCNUC  : 2H
NS       : 16
NUC1    : 1H
O1      : 1503.32 Hz
P[1]    : 11.0 usec
QNP     : 1
RG      : 114.000000
SFO1    : 300.1315033 MHz
SOLVENT : CDCl3
SW      : 11.9679 ppm
TD      : 32768
TE      : 300.0 K
*** Processing Parameters ***
LB      : 0.30 Hz
OFFSET  : 10.982 ppm
SF      : 300.1300030 MHz
SI      : 16384
*** 1D NMR Plot Parameters ***
SR      : 3.41 Hz
Hz_cm   : 114.80
AQ_time : 4.5613060 sec
SOLVENT : ?
    
```

¹³C NMR

yoyo328 cdcl3



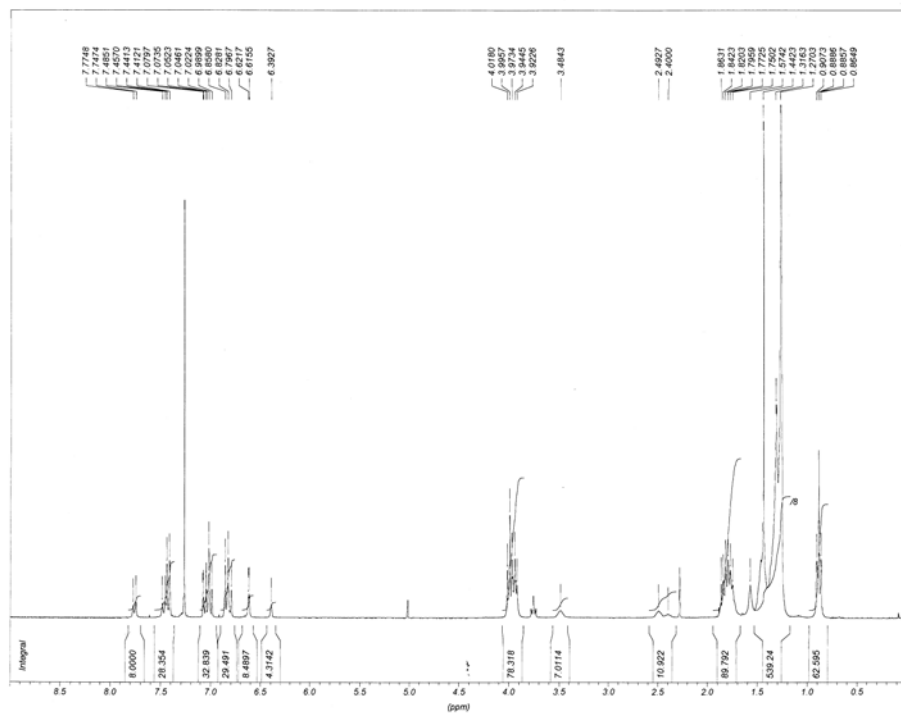
```

*** Current Data Parameters ***
NAME      : yoy328c1
EXPNO    : 1
PROCNO   : 0
*** Acquisition Parameters ***
D[1]     : 2.0000000 sec
DATE_d   : May 19 2003
DE       : 6.5 usec
DS       : 4
LOCNUC  : 2H
NS       : 1665
NUC1    : 13C
O1      : 7546.30 Hz
P[1]    : 8.4 usec
QNP     : 1
RG      : 5792.6000977
SFO1    : 75.4752953 MHz
SOLVENT : CDCl3
SW      : 238.2980 ppm
TD      : 65536
TE      : 300.0 K
*** Processing Parameters ***
LB      : 1.00 Hz
OFFSET  : 219.107 ppm
SF      : 75.4677530 MHz
SI      : 32768
*** 1D NMR Plot Parameters ***
SR      : 3.58 Hz
Hz_cm   : 718.74
AQ_time : 1.8219010 sec
SOLVENT : ?
    
```


Compound 3:

¹H NMR

yoyo253 CDCl₃

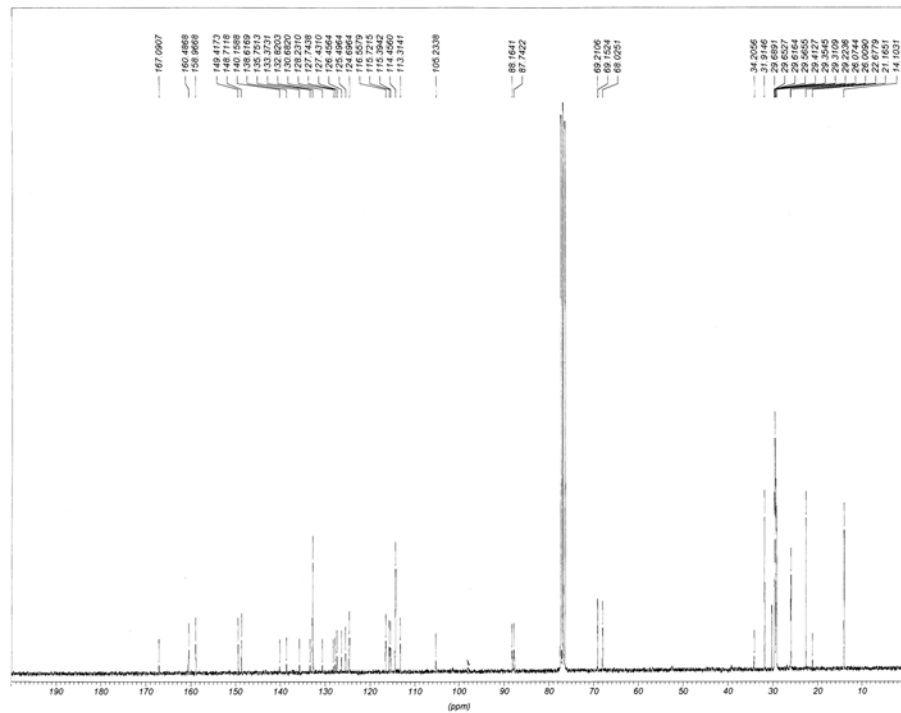


```

*** Current Data Parameters ***
NAME      : yoyo253h
EXPNO    : 1
PROCNO   : 1
*** Acquisition Parameters ***
BF1      : 300.1300000 MHz
DATE_d   : Oct 29 2002
DE       : 6.5 usec
DS       : 2
LOCNUC   : 2H
NS       : 48
NUC1     : 1H
O1       : 1503.32 Hz
O2       : 1853.43 Hz
P1[0]    : 11.0 usec
QNP      : 1
RG       : 574.7000122
RO       : 20 Hz
SOLVENT  : CDCl3
SW       : 11.9679 ppm
TD       : 65536
*** Processing Parameters ***
LB       : 0.30 Hz
SI       : 32768
*** 1D NMR Plot Parameters ***
SR       : 3.42 Hz
Hz_cm    : 113.30
AQ_time  : 9.1226110 sec
SOLVENT  : ?
    
```

¹³C NMR

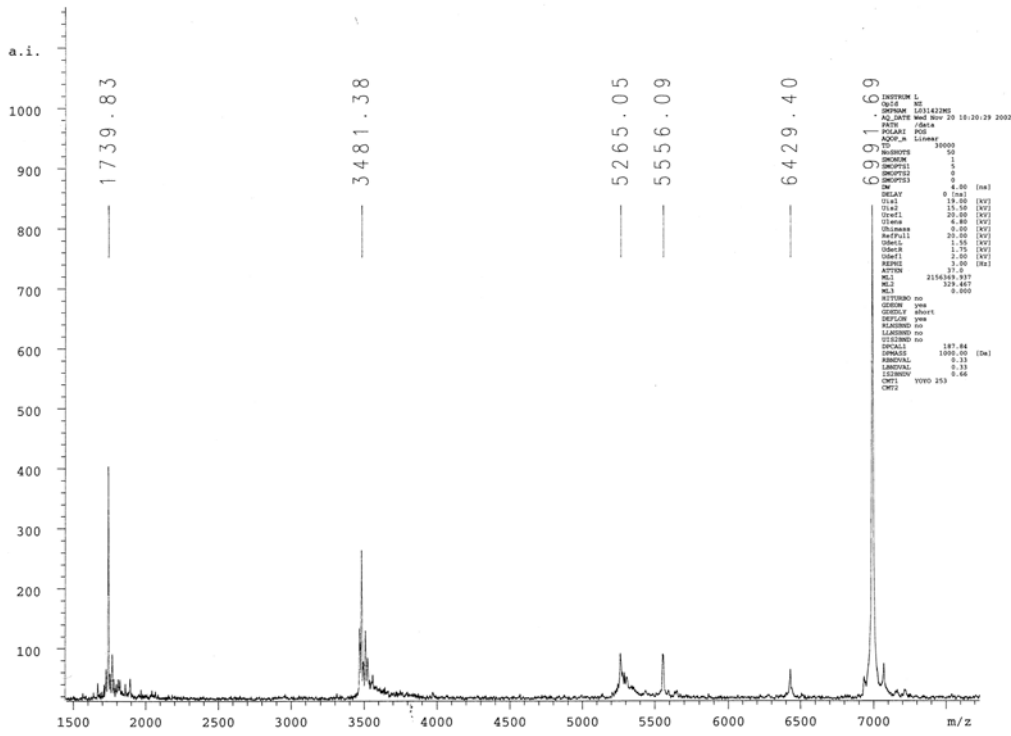
yoyo253 CDCl₃



```

*** Current Data Parameters ***
NAME      : yoyo253c
EXPNO    : 1
PROCNO   : 1
*** Acquisition Parameters ***
BF1      : 75.4677490 MHz
DATE_d   : Oct 30 2002
DE       : 6.5 usec
DS       : 4
LOCNUC   : 2H
NS       : 4058
NUC1     : 13C
O1       : 7546.30 Hz
O2       : 1200.52 Hz
P1[0]    : 8.4 usec
QNP      : 1
RG       : 3251.0000000
RO       : 20 Hz
SOLVENT  : CDCl3
SW       : 238.2980 ppm
TD       : 65536
*** Processing Parameters ***
LB       : 1.00 Hz
SI       : 32768
*** 1D NMR Plot Parameters ***
SR       : 1.93 Hz
Hz_cm    : 634.18
AQ_time  : 1.8219010 sec
SOLVENT  : ?
    
```

SM



GPC

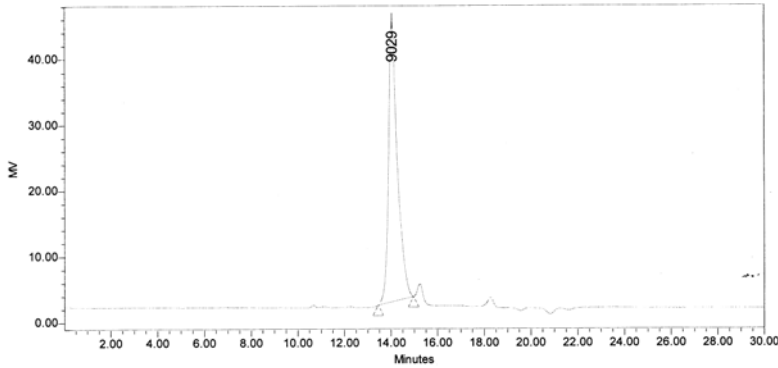
Project Name GPC_gmo
 User Name System
 Software Version 3.05.01

Report Method Name GPC GMO Report base
 Current Date 26/05/03

Sample Information

SampleName yoyo253a Sample Type Broad Unknown
 Vial 1 Date Acquired 13/03/03 14:47:30
 Injection 2 Acq Method Set GPC GMO Method Set Essai
 Injection Volume 20.00 ul Processing Method mars_bis_2003
 Channel 410 Date Processed 26/05/03 10:20:31
 Run Time 30.0 Minutes

Auto-Scaled Chromatogram



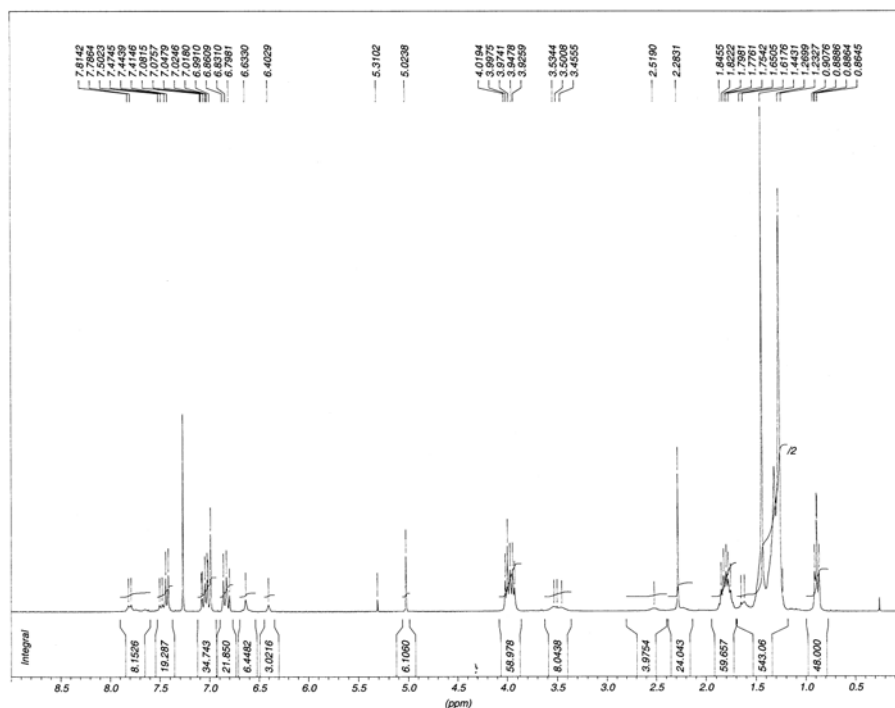
GPC Results

Dist Name	Mn	Mw	Mv	MP	Mz	Mz+1	Polydispersity	K	alpha
1	8179	8463		9029	8735	8998	1.034796		

Compound 4:

¹H NMR

yoyo275h2 CDCl3

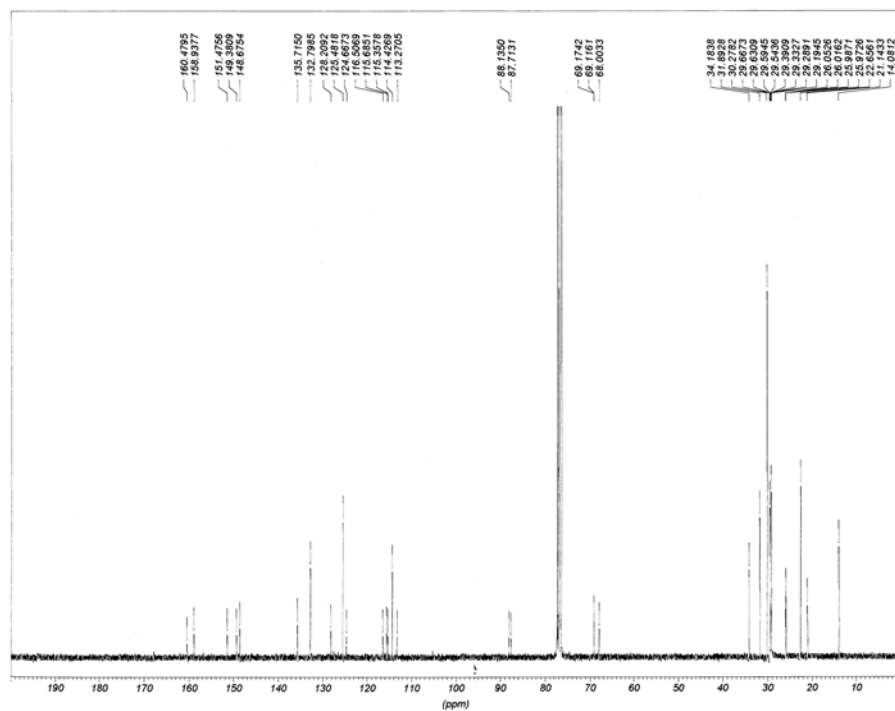


```

*** Current Data Parameters ***
NAME      : yoy275h2
EXPNO    : 1
PROCNO   : 0
*** Acquisition Parameters ***
D[1]     : 1.0000000 sec
DATE_d   : Feb 03 2003
DE       : 6.5 usec
DS       : 2
LOCNUC  : 2H
NS       : 48
NUC1    : 1H
O1       : 1503.32 Hz
P[1]    : 11.0 usec
QNP      : 1
RG       : 574.7000122
SFO1    : 300.1315033 MHz
SOLVENT : CDCl3
SW       : 11.9679 ppm
TD       : 32768
TE       : 300.0 K
*** Processing Parameters ***
LB       : 0.30 Hz
SF       : 300.1300030 MHz
SI       : 16384
*** 1D NMR Plot Parameters ***
SR       : 3.42 Hz
Hz_cm   : 114.80
AQ_time  : 4.5613060 sec
SOLVENT : ?
    
```

¹³C NMR

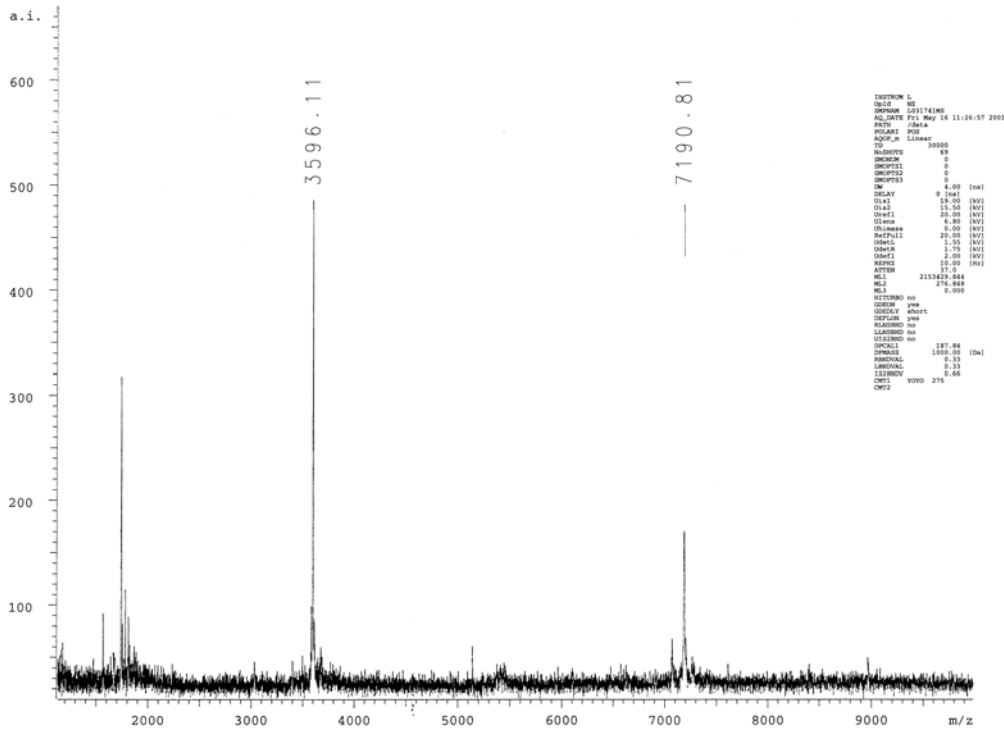
yoyo275 CDCl3



```

*** Current Data Parameters ***
NAME      : yoy275c
EXPNO    : 1
PROCNO   : 0
*** Acquisition Parameters ***
D[1]     : 2.0000000 sec
DATE_d   : Feb 03 2003
DE       : 6.5 usec
DS       : 4
LOCNUC  : 2H
NS       : 14632
NUC1    : 13C
O1       : 7546.30 Hz
P[1]    : 8.4 usec
QNP      : 1
RG       : 5160.6000977
SFO1    : 75.4752953 MHz
SOLVENT : CDCl3
SW       : 238.2980 ppm
TD       : 65536
TE       : 300.0 K
*** Processing Parameters ***
LB       : 0.30 Hz
SF       : 75.4677530 MHz
SI       : 32768
*** 1D NMR Plot Parameters ***
SR       : 3.58 Hz
Hz_cm   : 641.46
AQ_time  : 1.8219010 sec
SOLVENT : ?
    
```

SM



```

INSTRUM L
SOLC HC
PROGRAM L031741MS
ACQDATE Fri May 14 11:24:57 2003
FACT JGA*
PGMARI PDS*
ACQ_M Linear
TD
SAMPLING 30000
SAMPLING 0
SAMPLING 0
SAMPLING 0
SM 4.00 (m/z)
DELAY 0 (m/z)
SLAD 10.00 (m/z)
SLAD 15.00 (m/z)
SLAD 20.00 (m/z)
SLAD 4.00 (m/z)
SLAD 6.00 (m/z)
SLAD 20.00 (m/z)
SLAD 1.55 (m/z)
SLAD 1.75 (m/z)
SLAD 2.00 (m/z)
SLAD 10.00 (m/z)
ATTEN 270
REL 2153429.844
REL 270.844
REL 0.000
INTERNO no
GROSS yes
GROSSLY about
DEFLON yes
FLANDED no
LISERNO no
LISERNO no
ORCAL 187.84
ORCAL 1000.00 (Da)
RANGEVAL 0.33
RANGEVAL 0.33
LISERNO 0.46
UNIT VOVO 275
UNIT
  
```

GPC

Project Name GPC_gmo
 User Name System
 Software Version 3.05.01

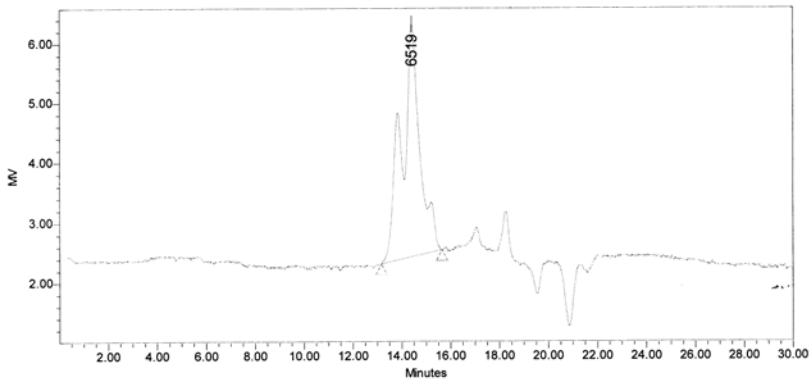
Report Method Name GPC GMO Report base
 Current Date 26/05/03

Sample Information

SampleName yoyo275b
 Vial 1
 Injection 4
 Injection Volume 20.00 ul
 Channel 410
 Run Time 30.0 Minutes

Sample Type Broad Unknown
 Date Acquired 14/03/03 13:08:04
 Acq Method Set GPC GMO Method Set Essai
 Processing Method mars_bis_2003
 Date Processed 26/05/03 10:14:37

Auto-Scaled Chromatogram



GPC Results

Dist Name	Mn	Mw	Mv	MP	Mz	Mz+1	Polydispersity	K	alpha
1	6458	7476		6519	8621	9799	1.157648		