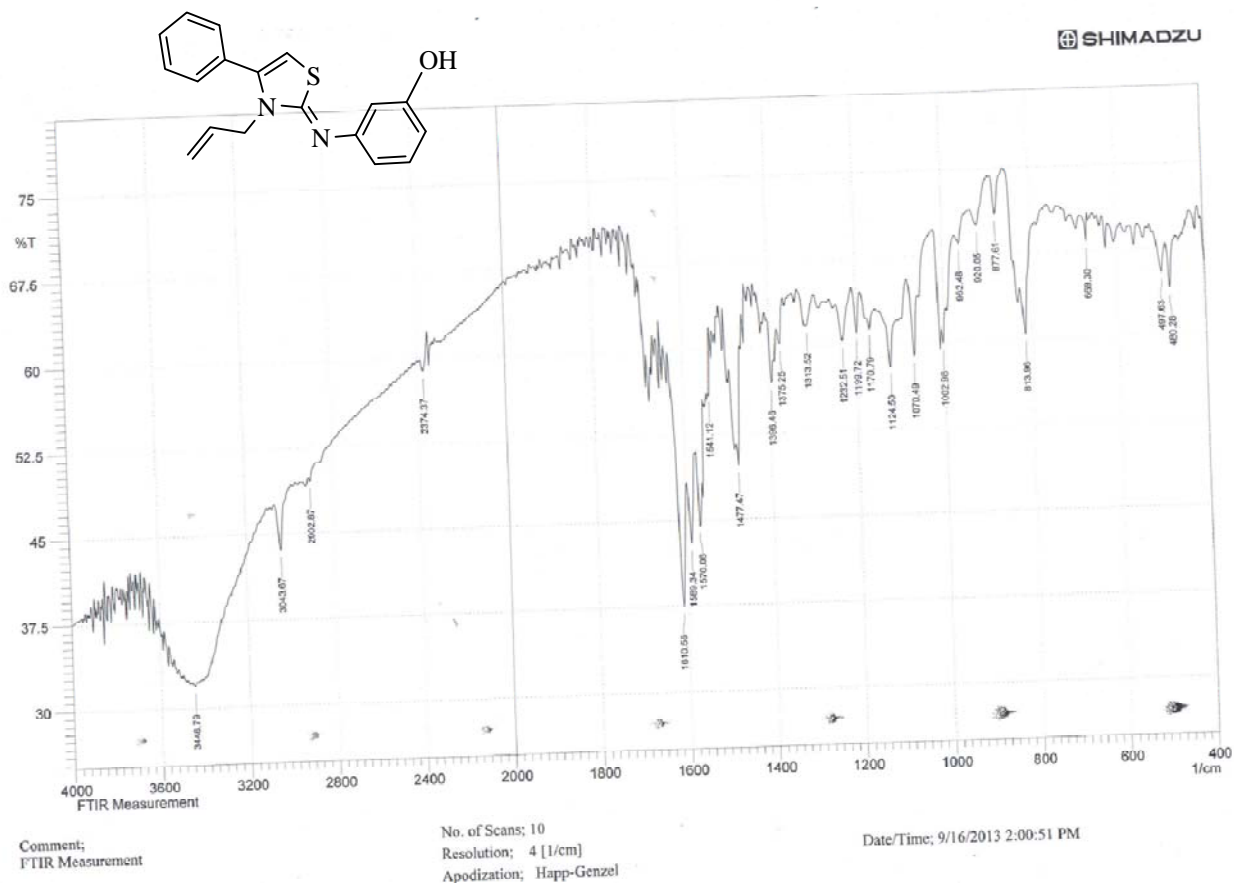
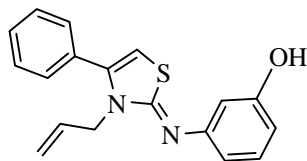
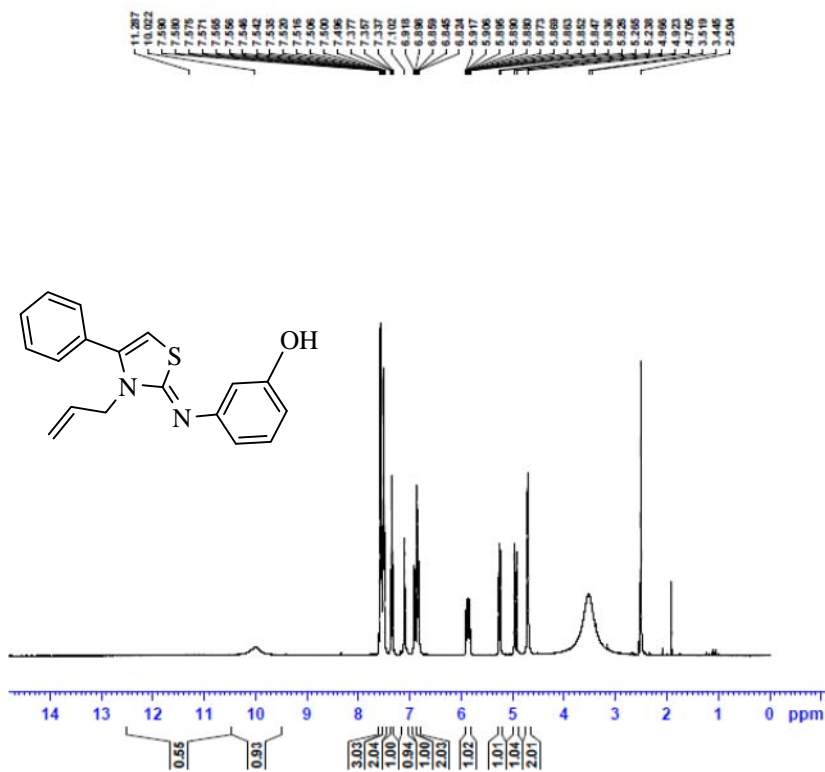


Spectral data of new compounds:

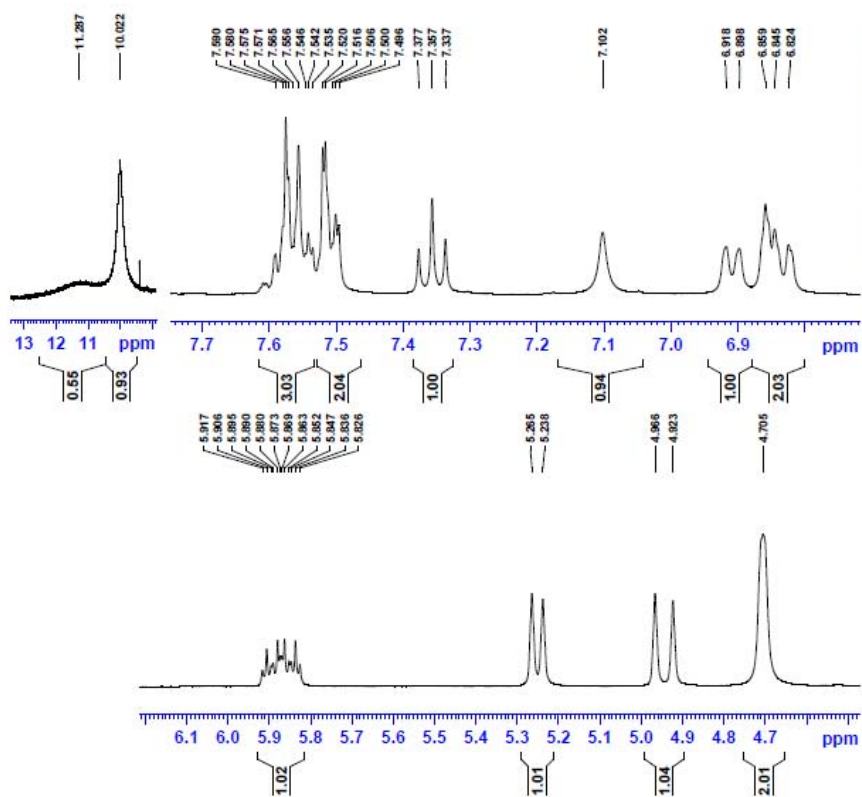
3-Allyl-2-(m-hydroxyphenylimino)-4-phenyl-3H-thiazole (4g):





Y14
 NAME Abbas-1gr 1H
 EXPNO 5
 PROCNO 1
 Date_ 20130323
 Time 15.55
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg
 TD 32768
 SOLVENT DMSO
 NS 0
 DS 0
 SWH 6005.515 Hz
 FREQS 0133390 Hz
 AQ 2.7253477 sec
 RG 503
 CW 83.200 usec
 DE 6.50 usec
 TE 302.2 K
 D1 6.0000000 sec
 TDD 1

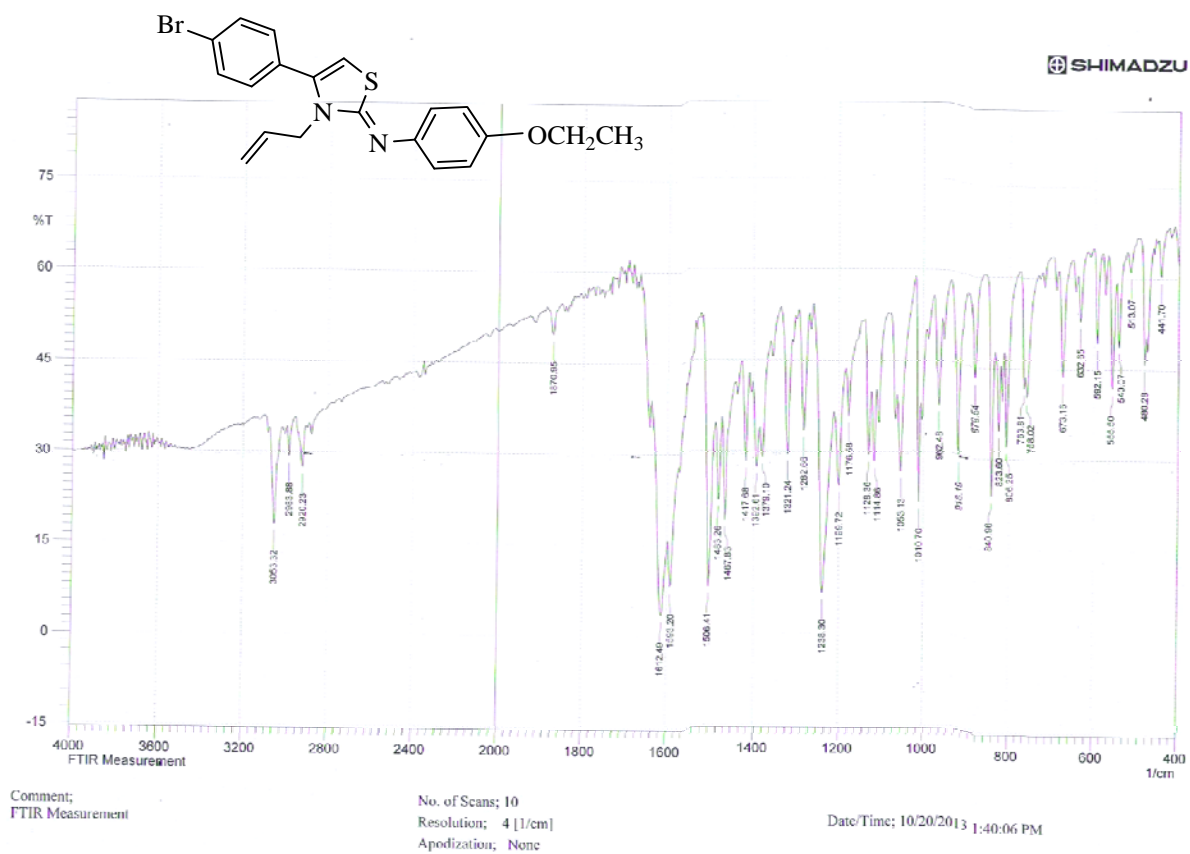
CHANNEL F1
 NUC1 1H
 P1 13.50 usec
 PL1 0.00 dB
 PL1W 11.30348873 W
 SFO1 400.130010 MHz
 SI 32768
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

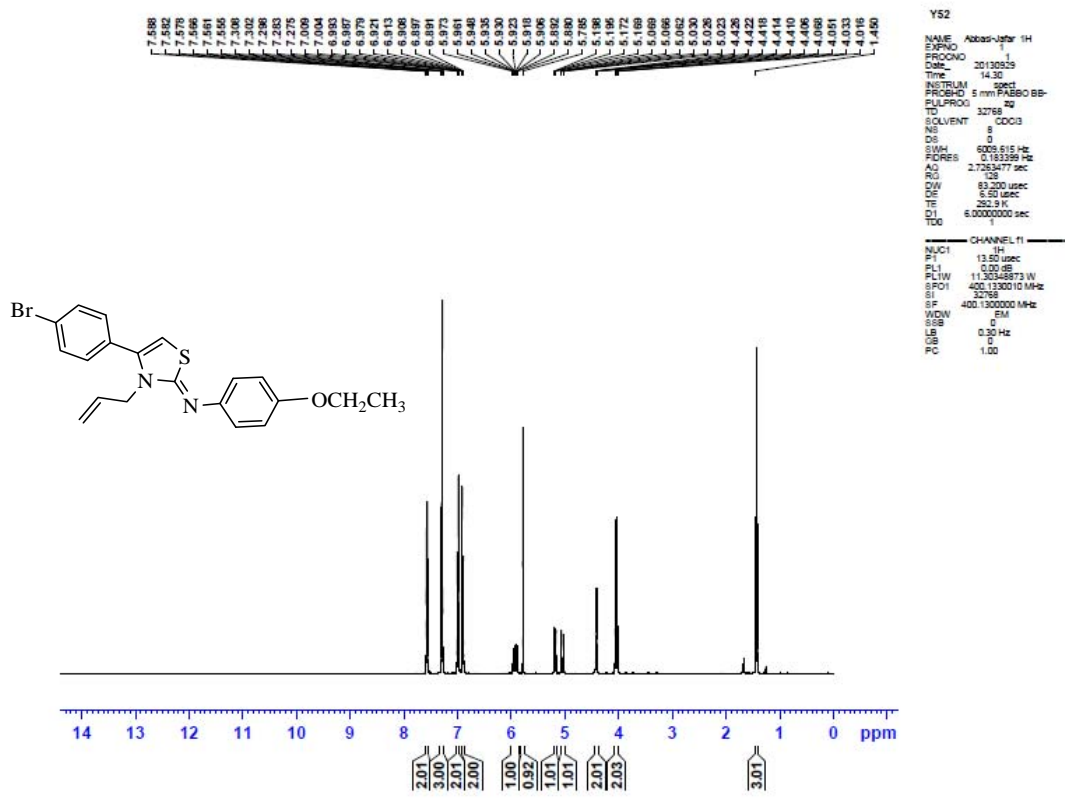


Y14
 NAME Abbas-1gr 1H
 EXPNO 5
 PROCNO 1
 Date_ 20130323
 Time 15.55
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg
 TD 32768
 SOLVENT DMSO
 NS 0
 DS 0
 SWH 6005.515 Hz
 FREQS 0133390 Hz
 AQ 2.7253477 sec
 RG 503
 CW 83.200 usec
 DE 6.50 usec
 TE 302.2 K
 D1 6.0000000 sec
 TDD 1

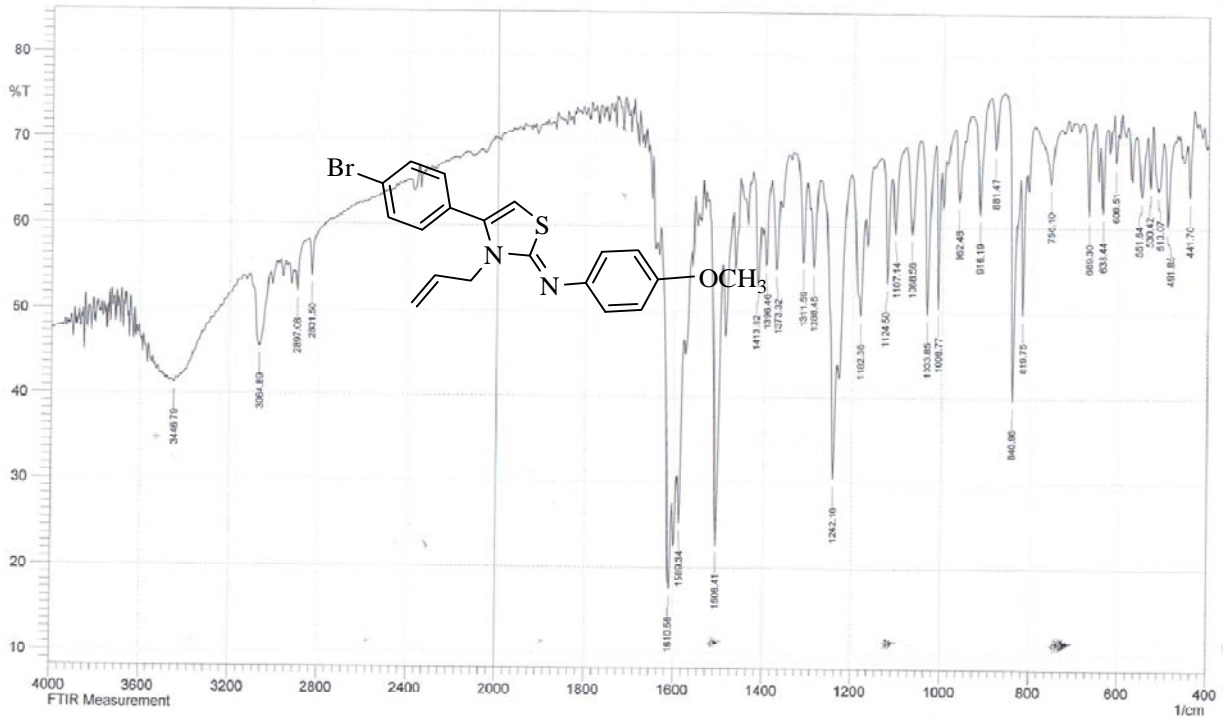
CHANNEL F1
 NUC1 1H
 P1 13.50 usec
 PL1 0.00 dB
 PL1W 11.30348873 W
 SFO1 400.130010 MHz
 SI 32768
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

3-Allyl-2-(p-ethoxyphenylimino)-4-(4'-bromophenyl)-3H-thiazole (4k):





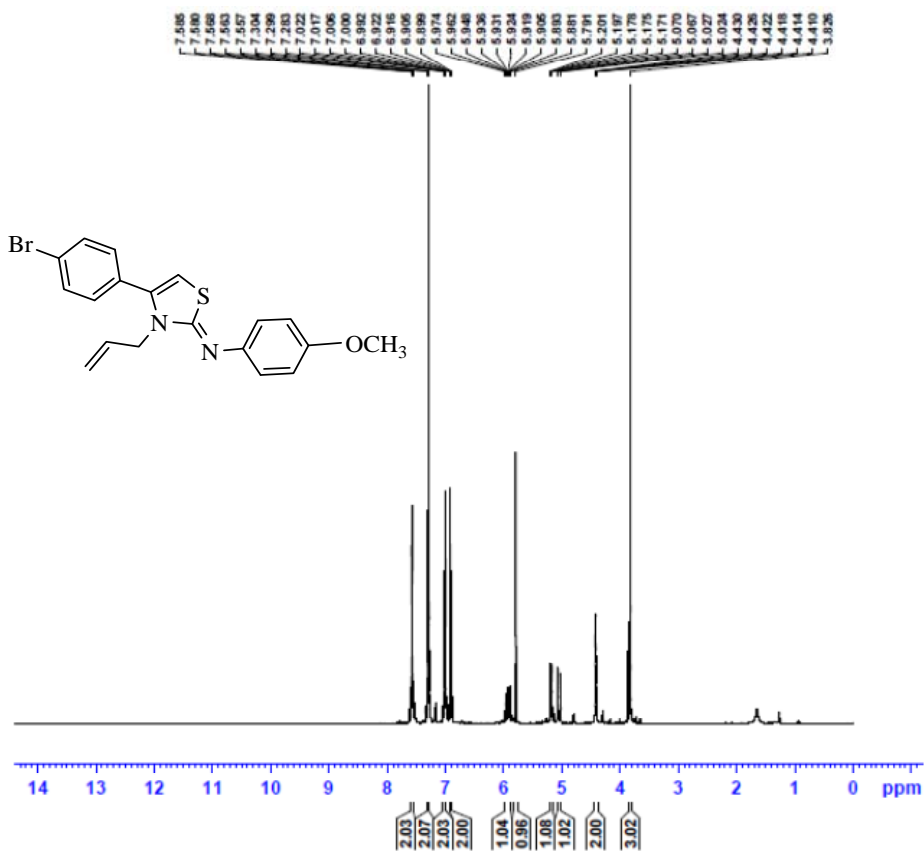
Y52
 NAME Abbas-Jafar 1H
 EXPNO 1
 PROCNO 1
 Date_ 20130529
 Time 14.30
 INSTRUM spect
 FREQHO 5 mm PABBO BB-
 PULPROG zg
 TD 32768
 SCLVNT c
 SOLVENT CDCl3
 NS 8
 DS 0
 SWH 6009.615 Hz
 FIDRES 0.193398 Hz
 AQ 2.7263477 sec
 RG 132
 DWT 83.200 usec
 DE 6.50 usec
 TE 295.2 K
 D1 6.0000000 sec
 TAD
CHANNEL f1
 NUC1 1H
 P1 13.50 usec
 PL1 0.00 dB
 PL1W 11.30348873 W
 SFO1 400.130010 MHz
 SI 32768
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Comment;
FTIR Measurement

No. of Scans; 10
Resolution; 4 [1/cm]
Apodization; Happ-Genzel

Date/Time; 9/12/2013 10:31:29 AM

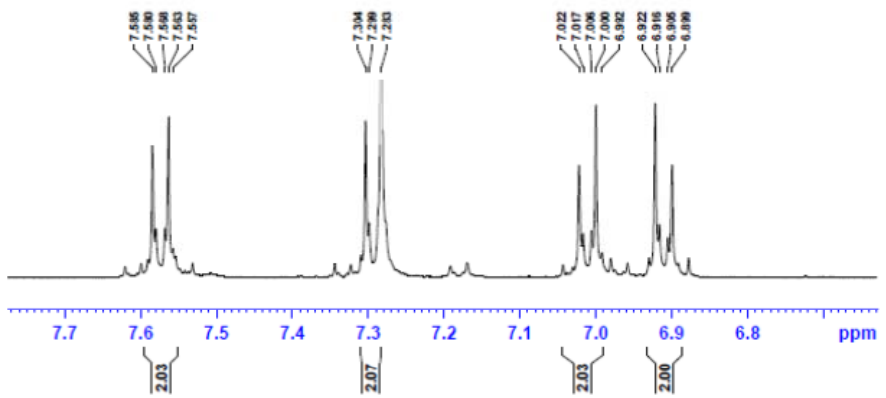


Y53

```

NAME: Abbas-jafar 1H
EXPNO: 13
PROCNO: 1
DIR_: 20131001
Time: 13.52
INSTRUM: spect
PROBHD: 5 mm PABBO BB-
PULPROG: zgpg30
TD: 32768
SOLVENT: CDCl3
NS: 8
DS: 0
SWH: 6009.615 Hz
FIDRES: 0.183399 Hz
AQ: 2.7263477 sec
RG: 144
DQW: 83.200 usec
DE: 5.50 usec
TE: 293.2 K
D1: 6.0000000 sec
TD0: 1
CHANNEL F1
NUC1: 1H
P1: 13.50 usec
PL1: 0.00 dB
PL1W: 11.30348873 W
SFO1: 400.130010 MHz
SI: 32768
SF: 400.1300000 MHz
WDW: EM
SSB: 0
LB: 0.30 Hz
GB: 0
PC: 1.00

```

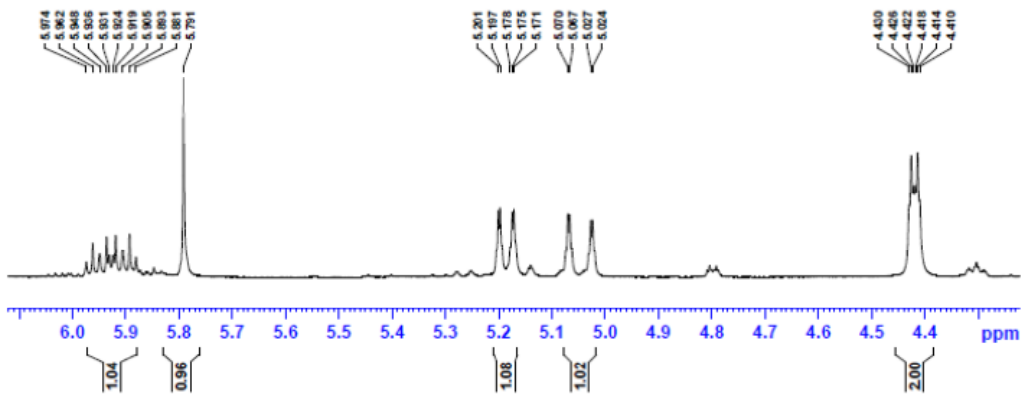


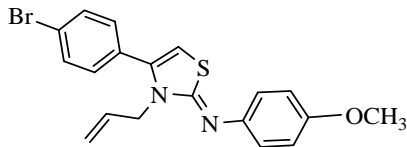
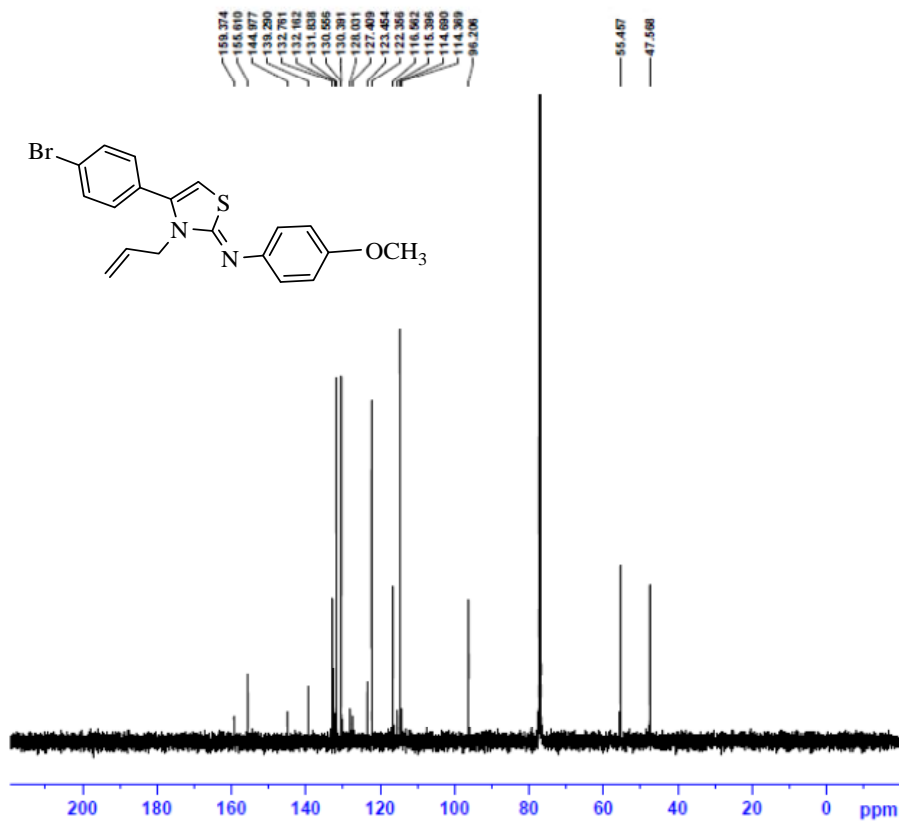
Y53

```

NAME: Abbas-jafar 1H
EXPNO: 13
PROCNO: 1
DIR_: 20131001
Time: 13.52
INSTRUM: spect
PROBHD: 5 mm PABBO BB-
PULPROG: zgpg30
TD: 32768
SOLVENT: CDCl3
NS: 8
DS: 0
SWH: 6009.615 Hz
FIDRES: 0.183399 Hz
AQ: 2.7263477 sec
RG: 144
DQW: 83.200 usec
DE: 5.50 usec
TE: 293.2 K
D1: 6.0000000 sec
TD0: 1
CHANNEL F1
NUC1: 1H
P1: 13.50 usec
PL1: 0.00 dB
PL1W: 11.30348873 W
SFO1: 400.130010 MHz
SI: 32768
SF: 400.1300000 MHz
WDW: EM
SSB: 0
LB: 0.30 Hz
GB: 0
PC: 1.00

```



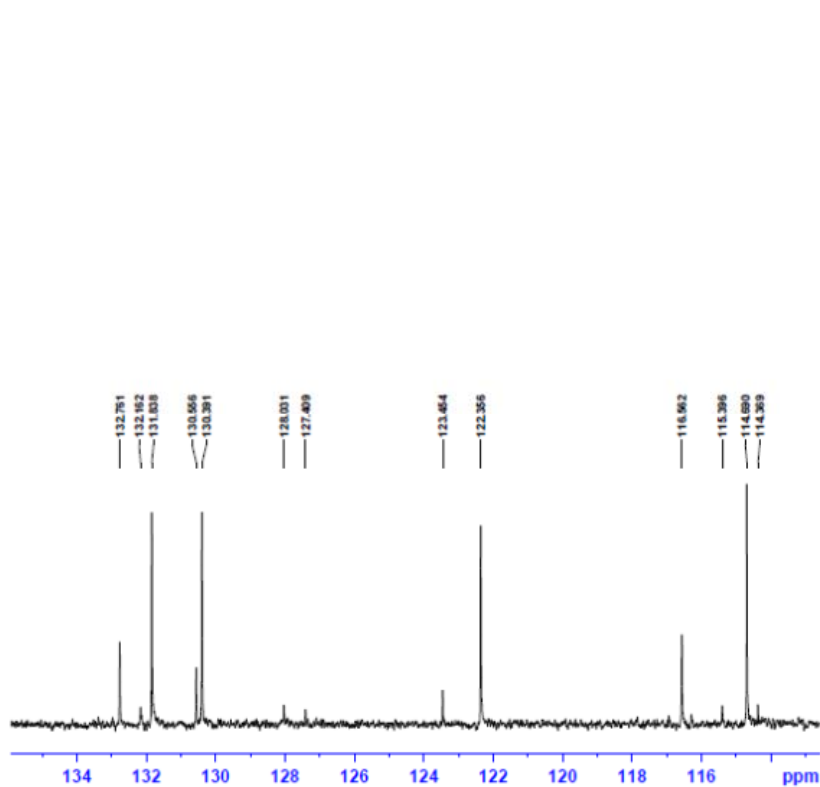


```

Y53
NAME  Abbas-Jafar 13C
EXPNO  5
PROCNO  1
Date_  20131001
Time  14.22
INSTRUM  spect
PROBHD  5 mm PABBO BB
PULPROG  zgpg
SOLVENT  CDCl3
NS  512
DS  0
SWH  24038.461 Hz
FIDRES  0.366798 Hz
AQ  1.3631988 sec
RG  303
DQW  20.800 usec
DE  6.50 usec
TE  -53.7 K
D1  2.0000000 sec
D11  0.0300000 sec
TD0  1

----- CHANNEL f1 -----
NUC1  13C
P1  7.60 usec
PL1  -2.00 dB
PL1W  56.9292320 W
SFO1  100.6275298 MHz

----- CHANNEL g -----
CPDPRG2  waltz16
NUC2  1H
PCPD2  65.00 usec
PL2  0.00 dB
PL2W  16.00 dB
PL3  16.00 dB
PL3W  11.30348873 W
PL13W  0.28393081 W
PL13W  0.28393081 W
SFO2  400.1316005 MHz
SI  32768
SF  100.6127590 MHz
WOW  EM
SSB  0
LB  1.00 Hz
GB  0
PC  1.40
  
```



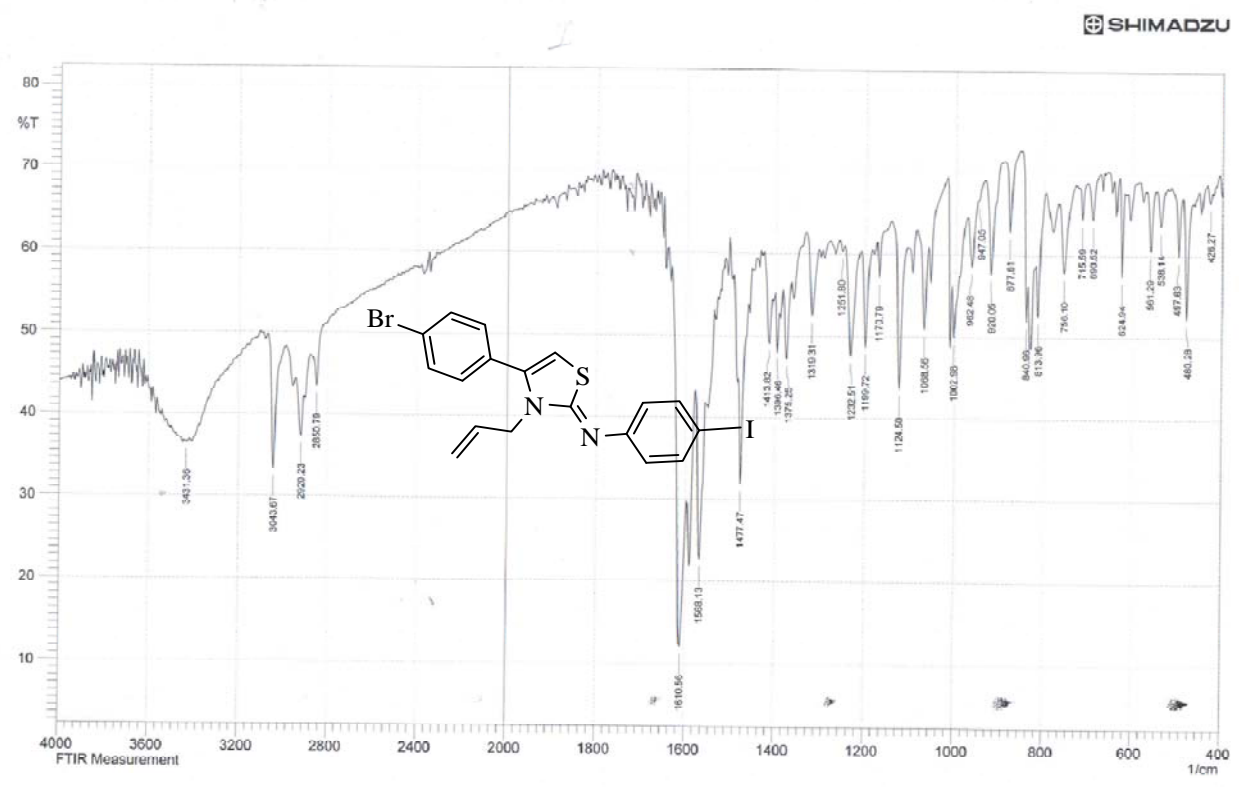
```

Y53
NAME  Abbas-Jafar 13C
EXPNO  5
PROCNO  1
Date_  20131001
Time  14.22
INSTRUM  spect
PROBHD  5 mm PABBO BB
PULPROG  zgpg
SOLVENT  CDCl3
NS  512
DS  0
SWH  24038.461 Hz
FIDRES  0.366798 Hz
AQ  1.3631988 sec
RG  303
DQW  20.800 usec
DE  6.50 usec
TE  -53.7 K
D1  2.0000000 sec
D11  0.0300000 sec
TD0  1

----- CHANNEL f1 -----
NUC1  13C
P1  7.60 usec
PL1  -2.00 dB
PL1W  56.9292320 W
SFO1  100.6275298 MHz

----- CHANNEL g -----
CPDPRG2  waltz16
NUC2  1H
PCPD2  65.00 usec
PL2  0.00 dB
PL2W  16.00 dB
PL3  16.00 dB
PL3W  11.30348873 W
PL13W  0.28393081 W
PL13W  0.28393081 W
SFO2  400.1316005 MHz
SI  32768
SF  100.6127590 MHz
WOW  EM
SSB  0
LB  1.00 Hz
GB  0
PC  1.40
  
```

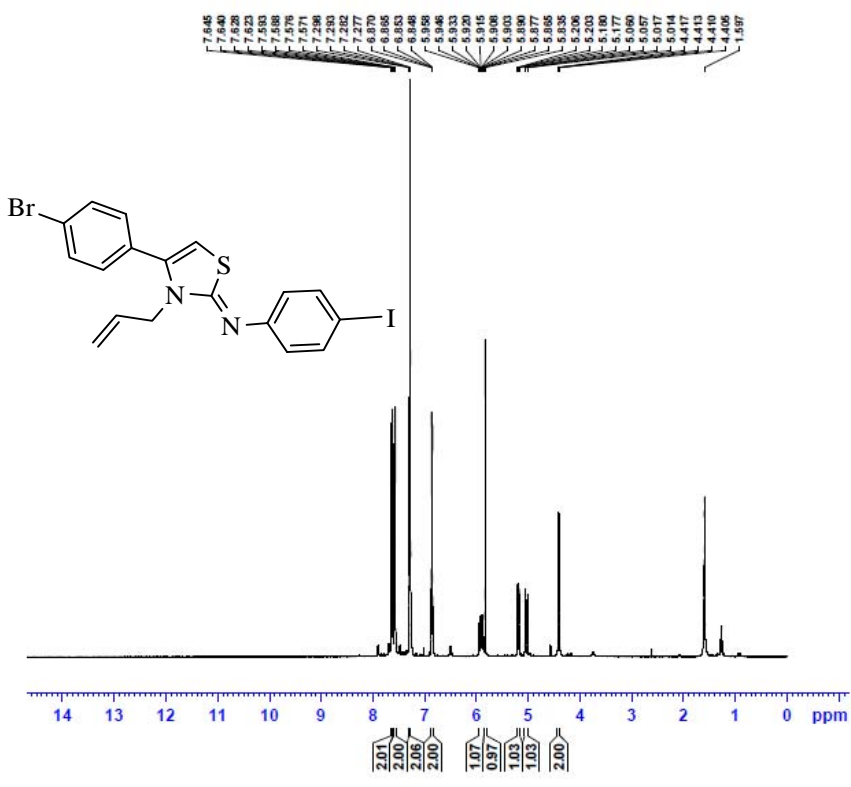
3-Allyl-2-(p-iodophenylimino)-4-(4'-bromophenyl)-3H-thiazole (4m):



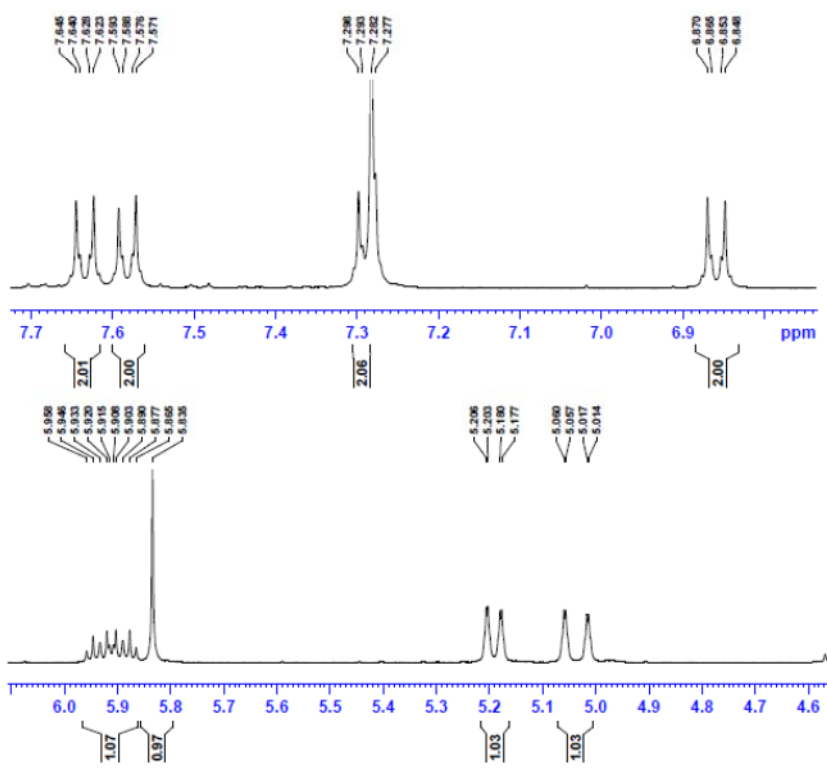
Comment:
FTIR Measurement

No. of Scans: 10
Resolution: 4 [1/cm]
Apodization: Happ-Genzel

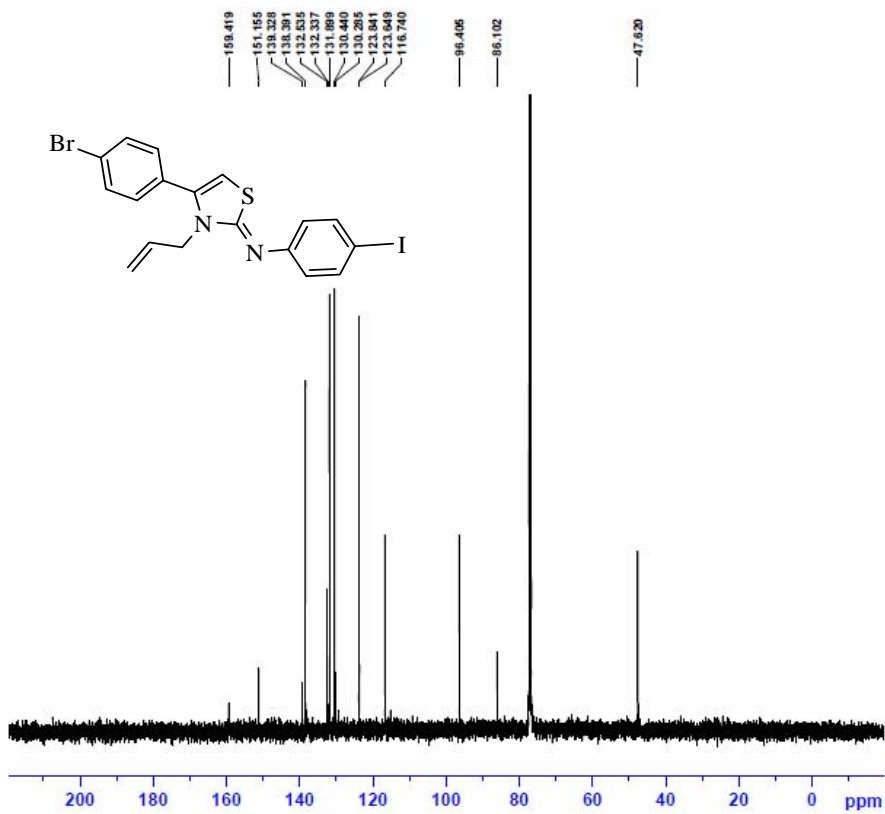
Date/Time: 9/12/2013 10:09:48 AM



Y54
 NAME Atlas-Jahr 1H
 EXPNO 11
 PROCNO 11
 Date_ 20130930
 Time 15.53
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg
 TD 32768
 SOLVENT CDCl3
 NS 8
 DS 8
 SWH 6009.615 Hz
 FIDRES 0.183299 Hz
 AQ 2.7263477 sec
 RG 64
 DW 83.200 usec
 DE 5.50 usec
 TE 293.1 K
 D1 6.0000000 sec
 D11
 D12
 D13
 D14
 D15
 D16
 D17
 D18
 D19
 D20
 CHANNEL f1
 NUC1 1H
 P1 13.50 usec
 PL1 0.00 dB
 PL1W 11.30348973 W
 SFO1 400.1300010 MHz
 SI 32768
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Y54
 NAME Atlas-Jahr 1H
 EXPNO 11
 PROCNO 11
 Date_ 20130930
 Time 15.53
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg
 TD 32768
 SOLVENT CDCl3
 NS 8
 DS 8
 SWH 6009.615 Hz
 FIDRES 0.183299 Hz
 AQ 2.7263477 sec
 RG 64
 DW 83.200 usec
 DE 5.50 usec
 TE 293.1 K
 D1 6.0000000 sec
 D11
 D12
 D13
 D14
 D15
 D16
 D17
 D18
 D19
 D20
 CHANNEL f1
 NUC1 1H
 P1 13.50 usec
 PL1 0.00 dB
 PL1W 11.30348973 W
 SFO1 400.1300010 MHz
 SI 32768
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



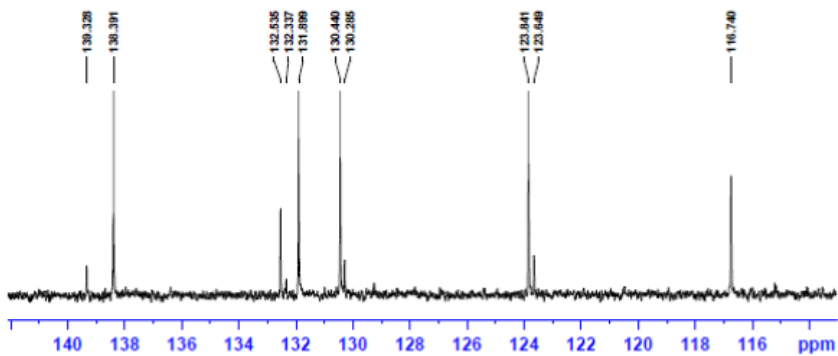
```

Y54
NAME Abbas-Jafar 13C
EXPNO 4
PROCNO 1
Date_ 20130930
Time 15.23
INSTRUM spect
PROBHD 5 mm F4BBO BB-
PULPROG zgpg
TD 65536
SOLVENT CDCl3
NS 1024
DS 0
SWH 24038.461 Hz
FIDRES 0.366796 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 293.7 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 7.60 usec
PL1 -2.00 dB
PL1W 56.52932510 W
SFO1 100.6282588 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 85.00 usec
PL2 0.00 dB
PLT2 16.00 dB
PL3 16.00 dB
PL2W 11.30348873 W
PL3W 0.28393081 W
PL13W 0.28393081 W
SFO2 400.1316005 MHz
SF 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

```



```

Y54
NAME Abbas-Jafar 13C
EXPNO 4
PROCNO 1
Date_ 20130930
Time 15.23
INSTRUM spect
PROBHD 5 mm F4BBO BB-
PULPROG zgpg
TD 65536
SOLVENT CDCl3
NS 1024
DS 0
SWH 24038.461 Hz
FIDRES 0.366796 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 293.7 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 7.60 usec
PL1 -2.00 dB
PL1W 56.52932510 W
SFO1 100.6282588 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 85.00 usec
PL2 0.00 dB
PLT2 16.00 dB
PL3 16.00 dB
PL2W 11.30348873 W
PL3W 0.28393081 W
PL13W 0.28393081 W
SFO2 400.1316005 MHz
SF 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

```

3-Allyl-2-(p-chlorophenylimino)-4-(4'-bromophenyl)-3H-thiazole (4n):

