

## Supplementary Material

### A simple and efficient method for the synthesis of 4-tosyloxazoles from tosylmethyl isocyanide with $\alpha$ -ketoimidoyl chlorides

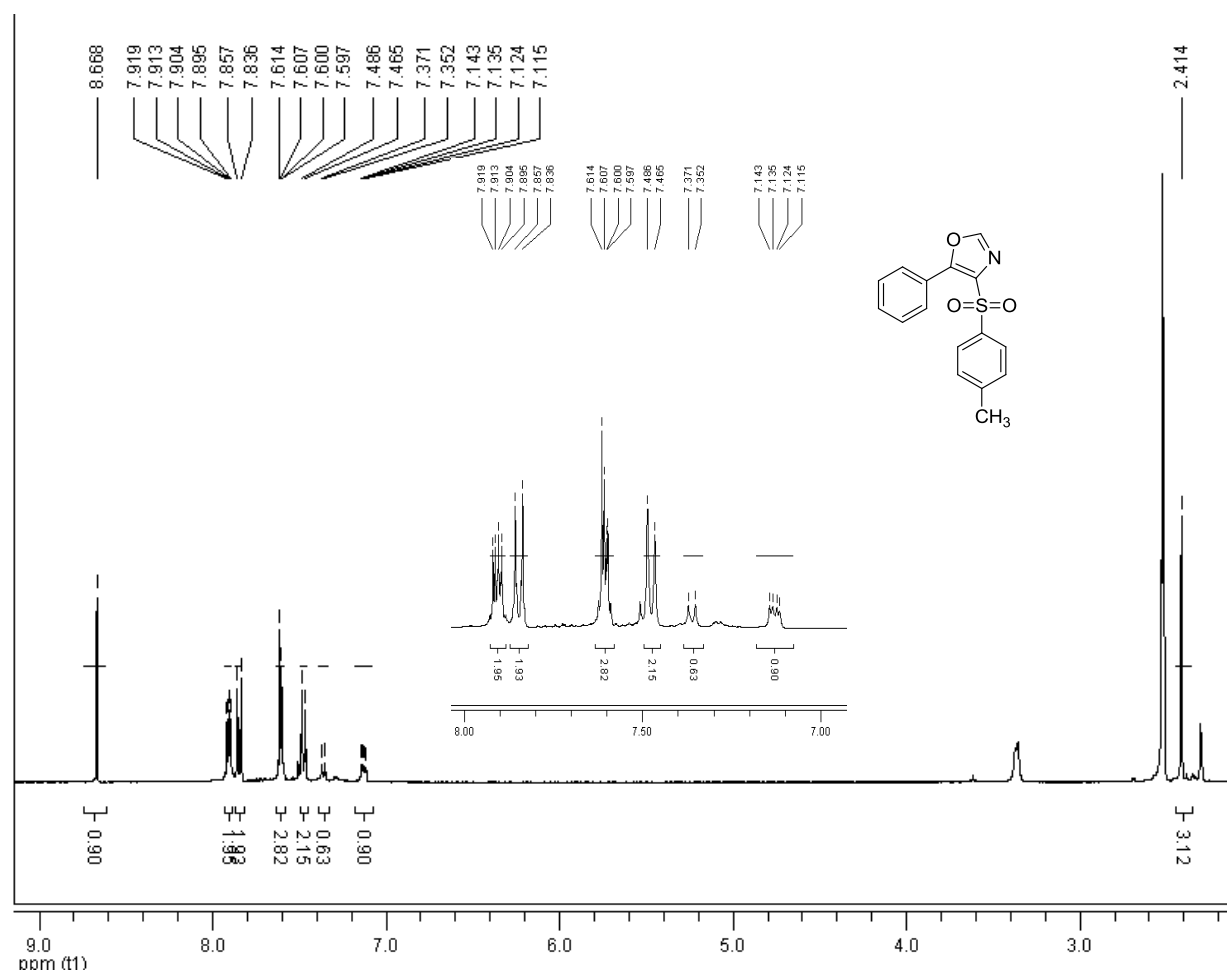
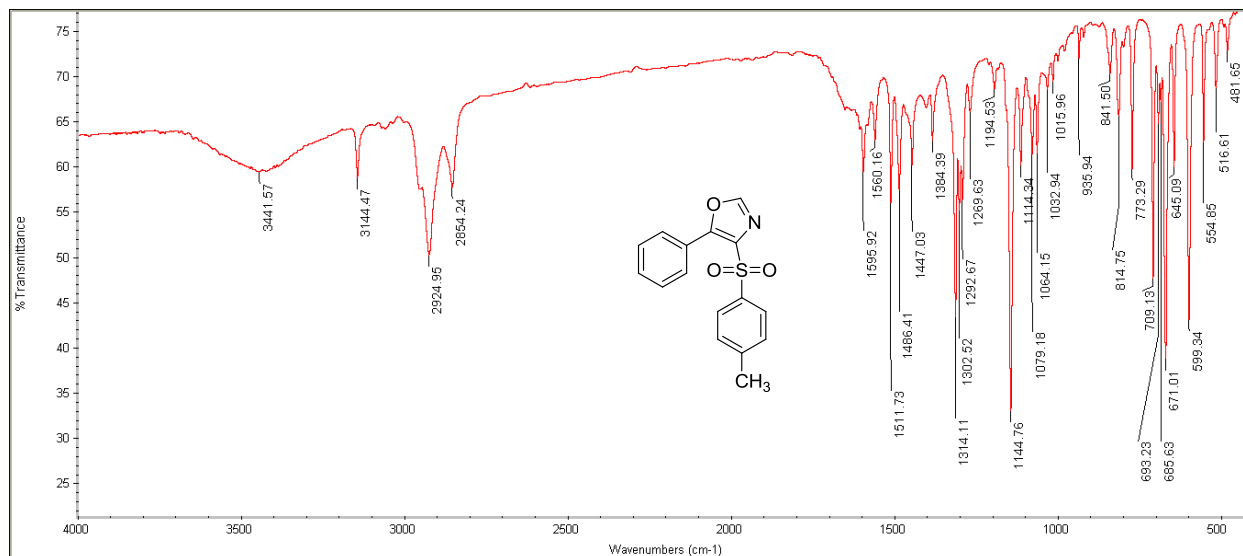
Mahdiyeh Talebizadeh,<sup>a</sup> Ali Darehkordi,<sup>a\*</sup> and Mohammad Anary-Abbasinejad<sup>a</sup>

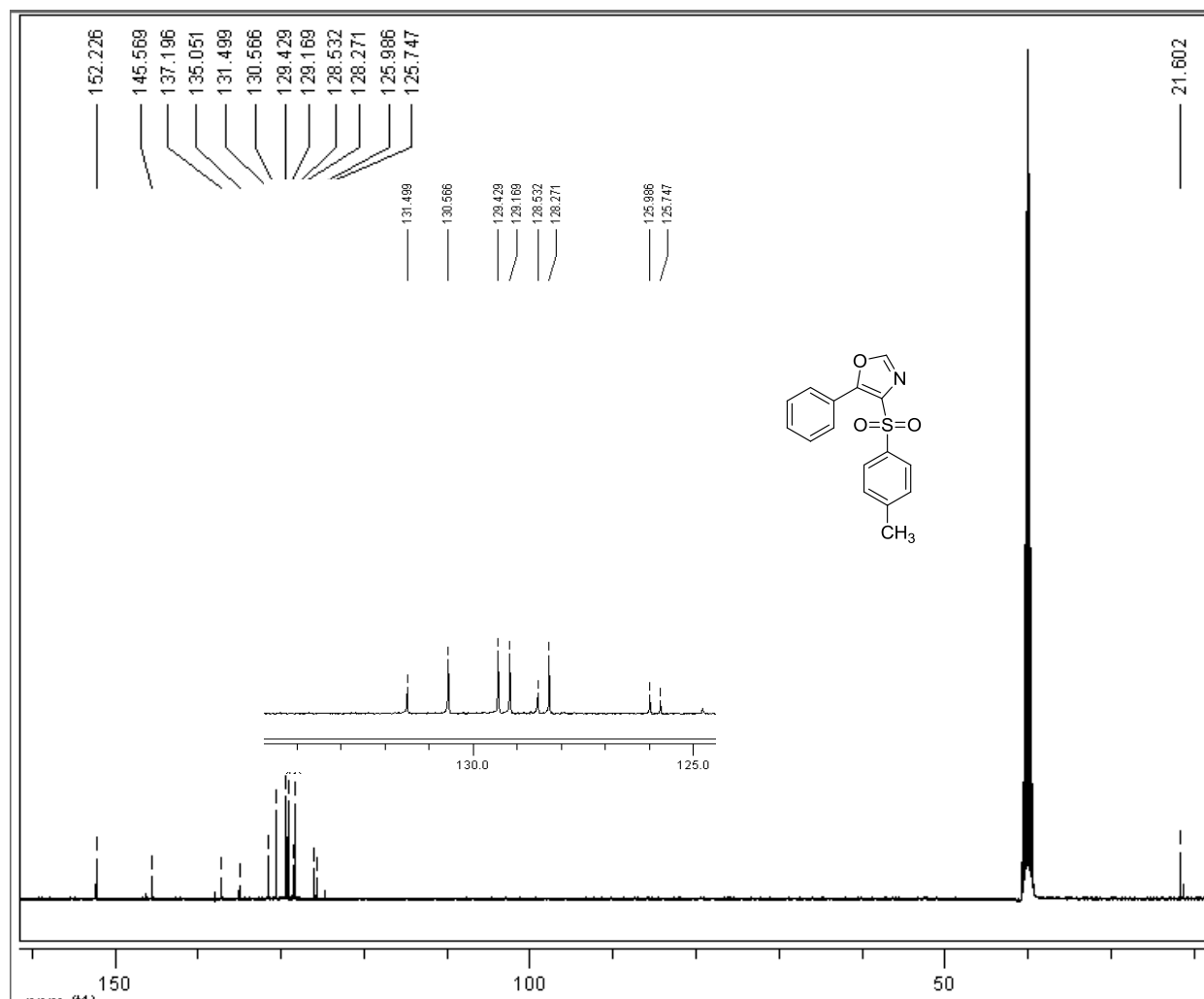
<sup>a</sup> Department of Chemistry, Faculty of Science, Vali-e-Asr University of Rafsanjan, Rafsanjan 77176, Iran  
E-mail: [darehkordi@vru.ac.ir](mailto:darehkordi@vru.ac.ir), [adarehkordi@yahoo.com](mailto:adarehkordi@yahoo.com)

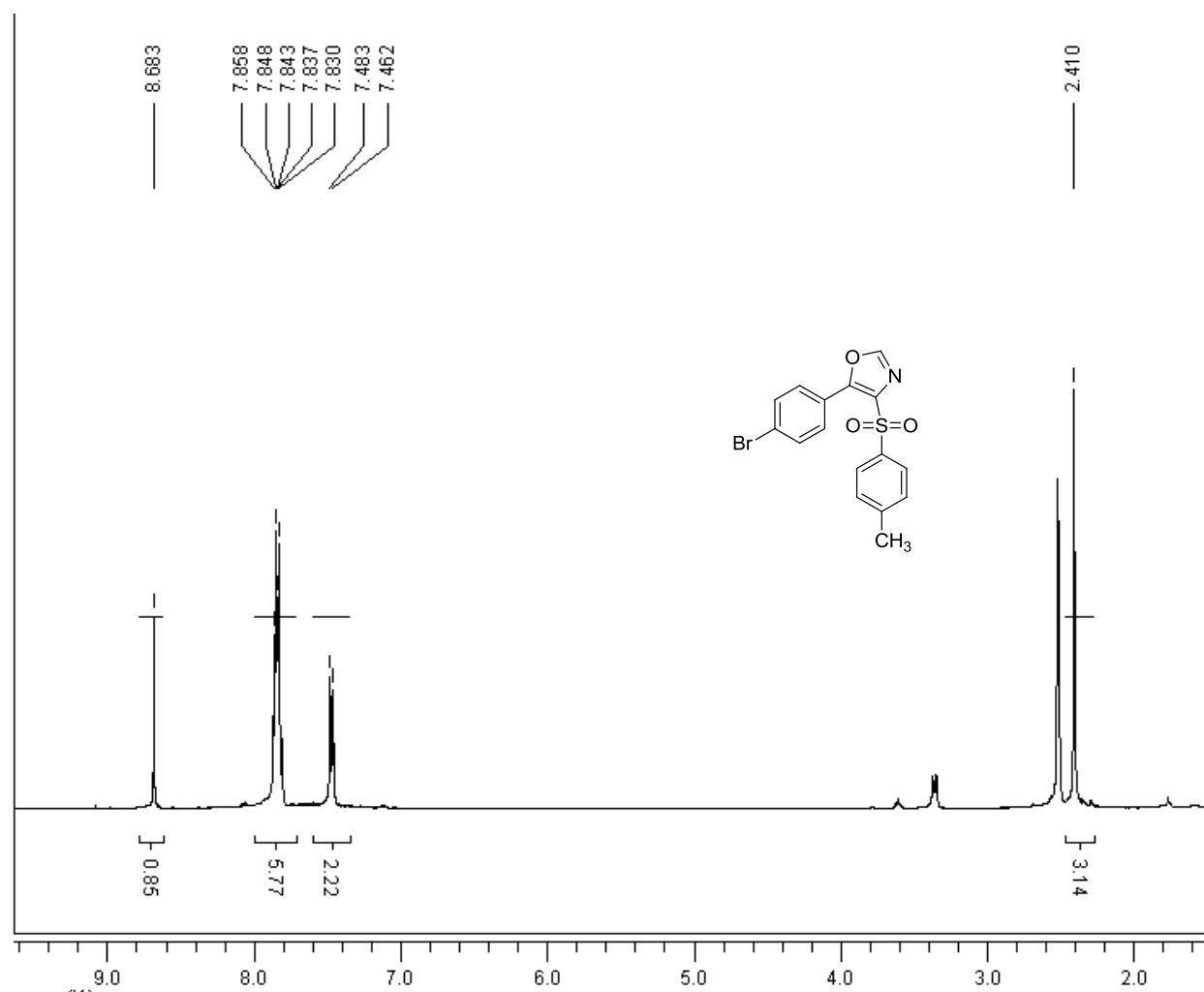
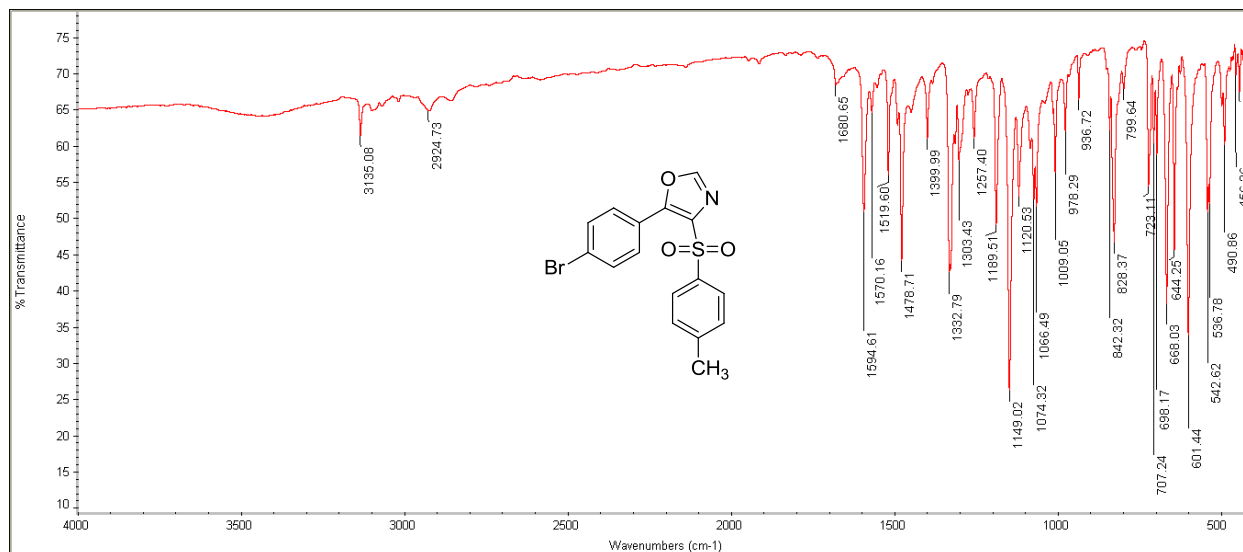
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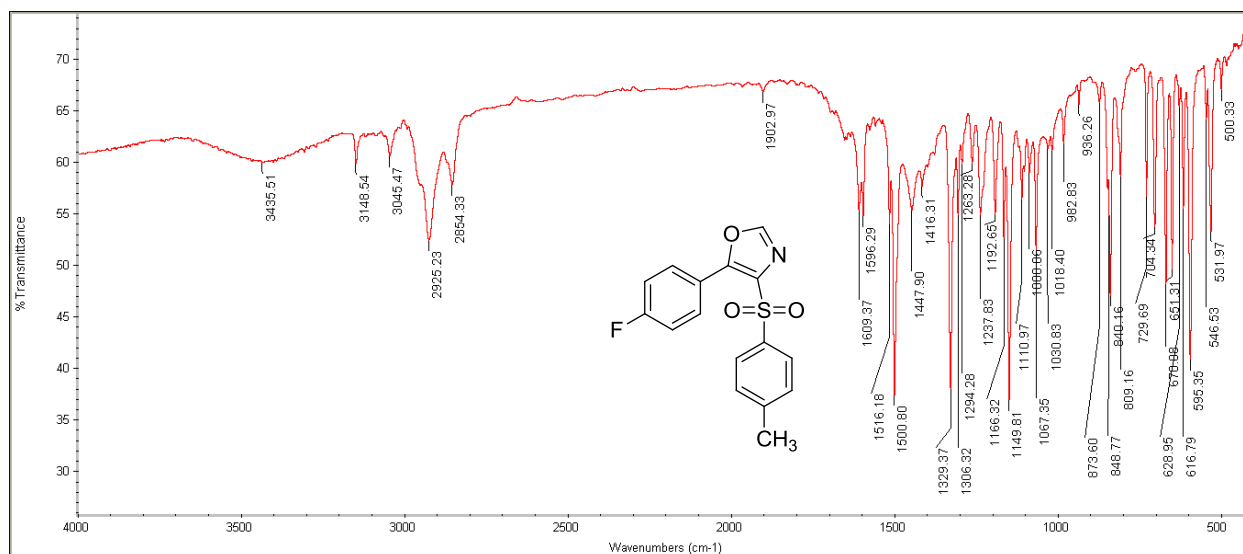
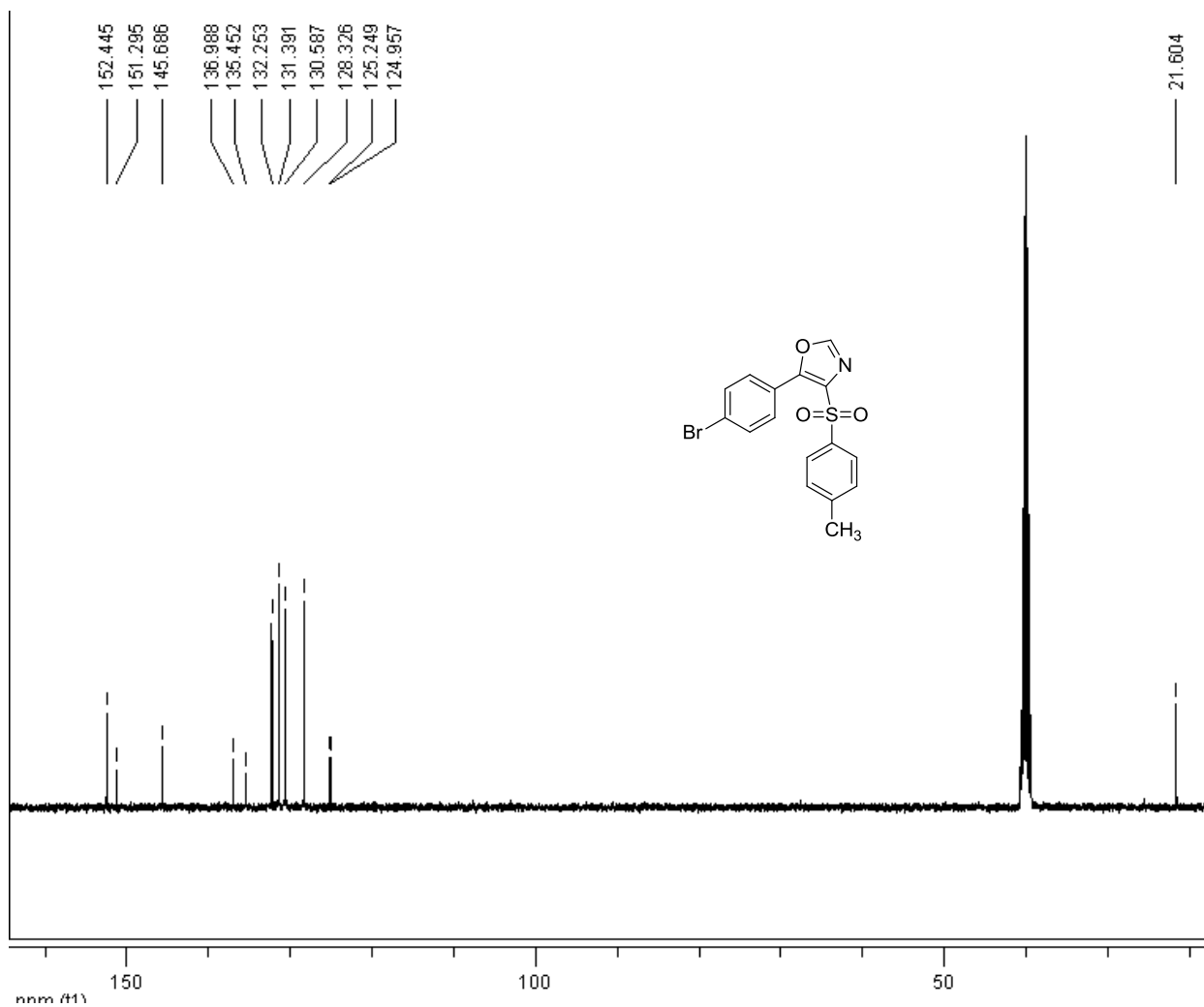
Copies of FT-IR, <sup>1</sup>H and <sup>13</sup>C NMR spectra for compounds **5a-l**

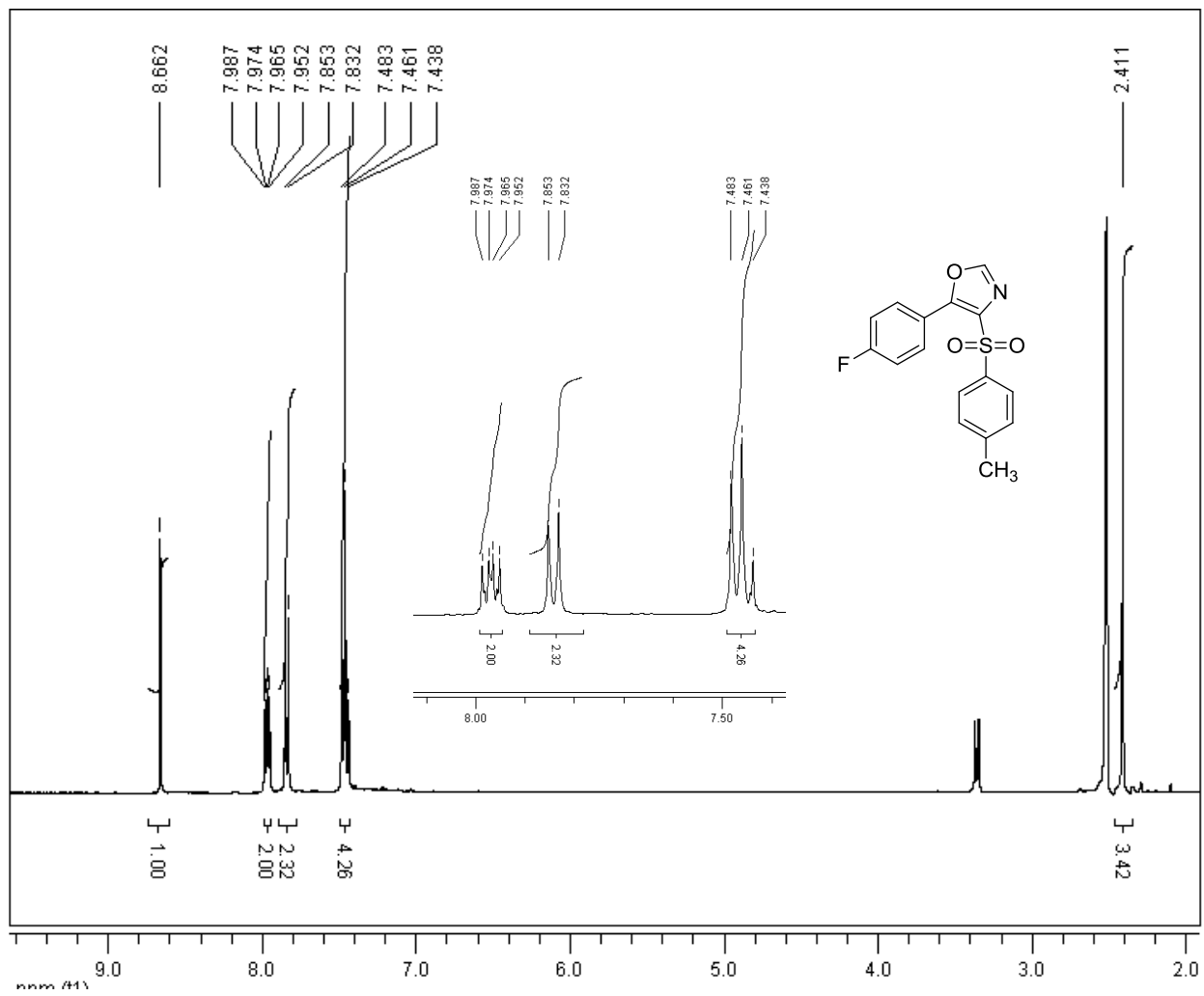
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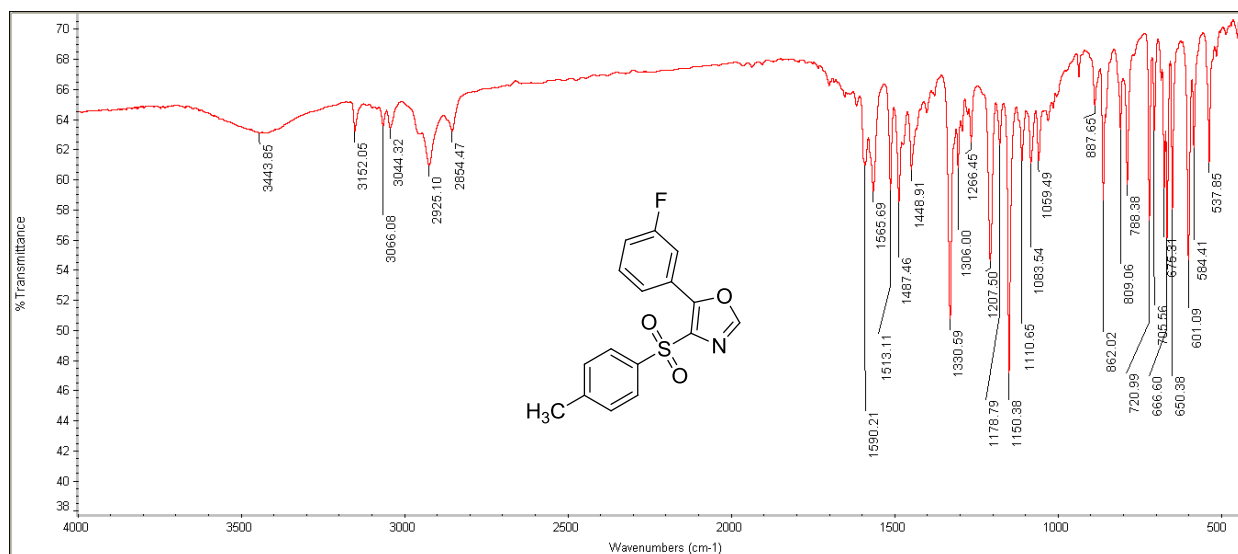
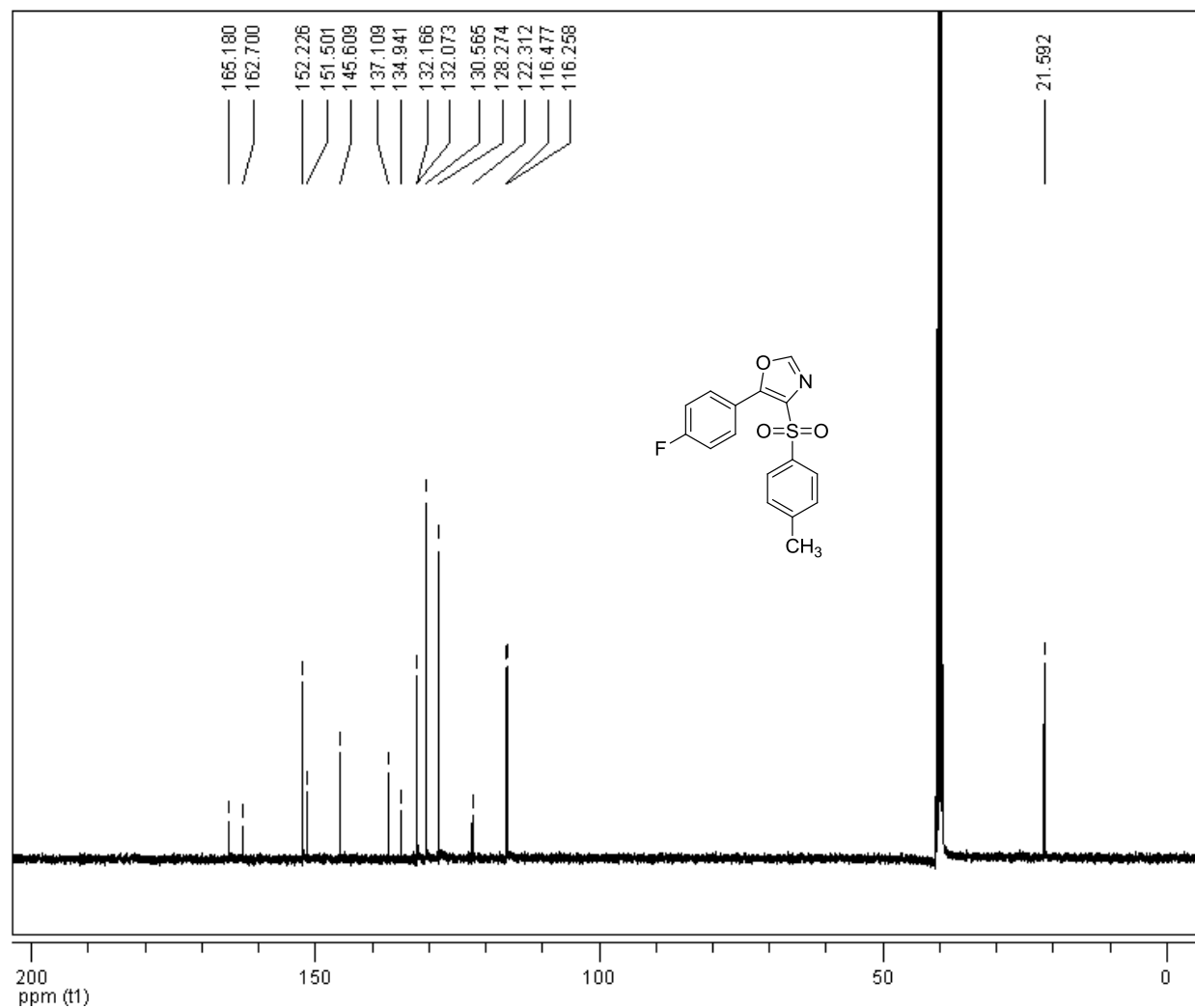


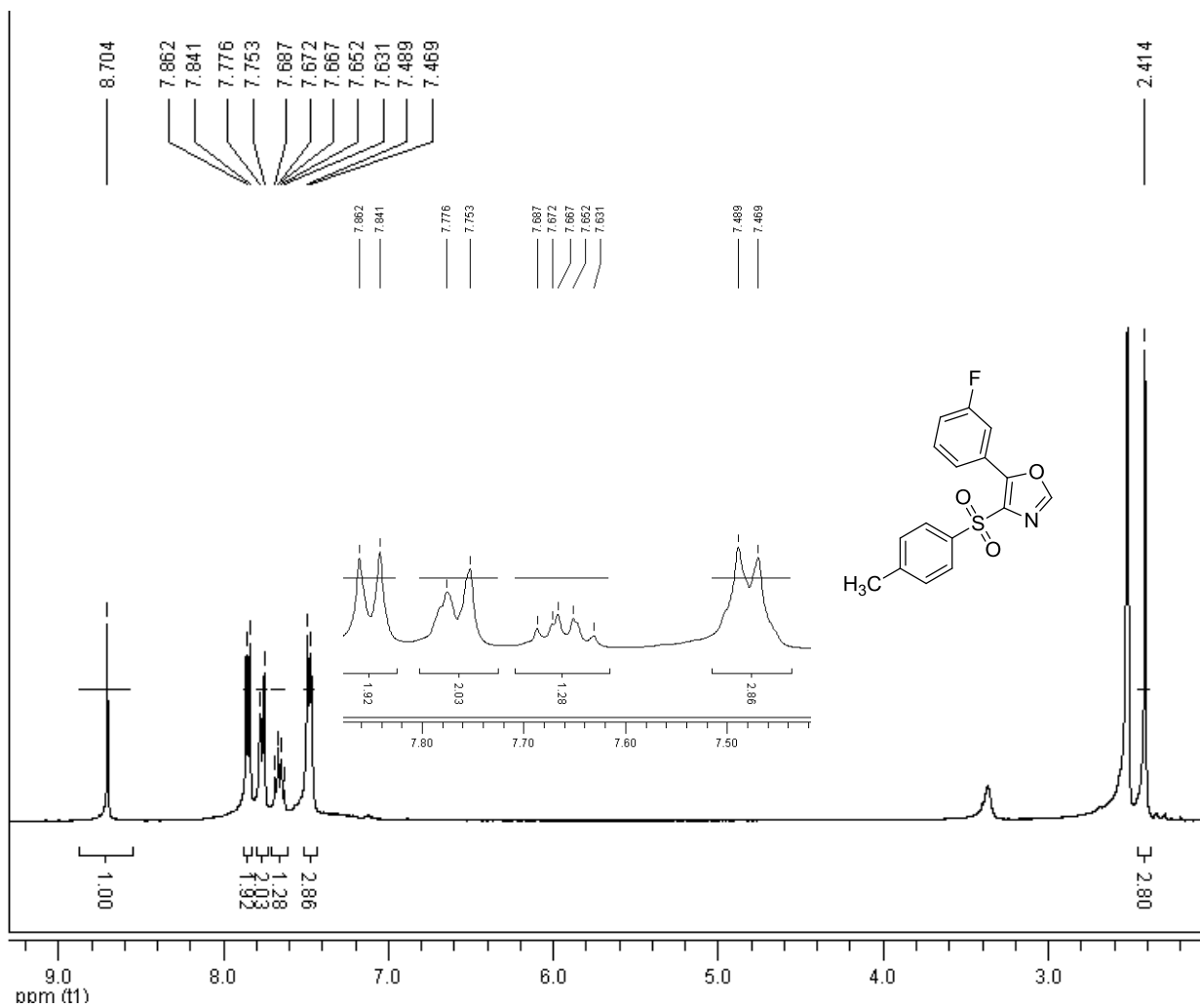




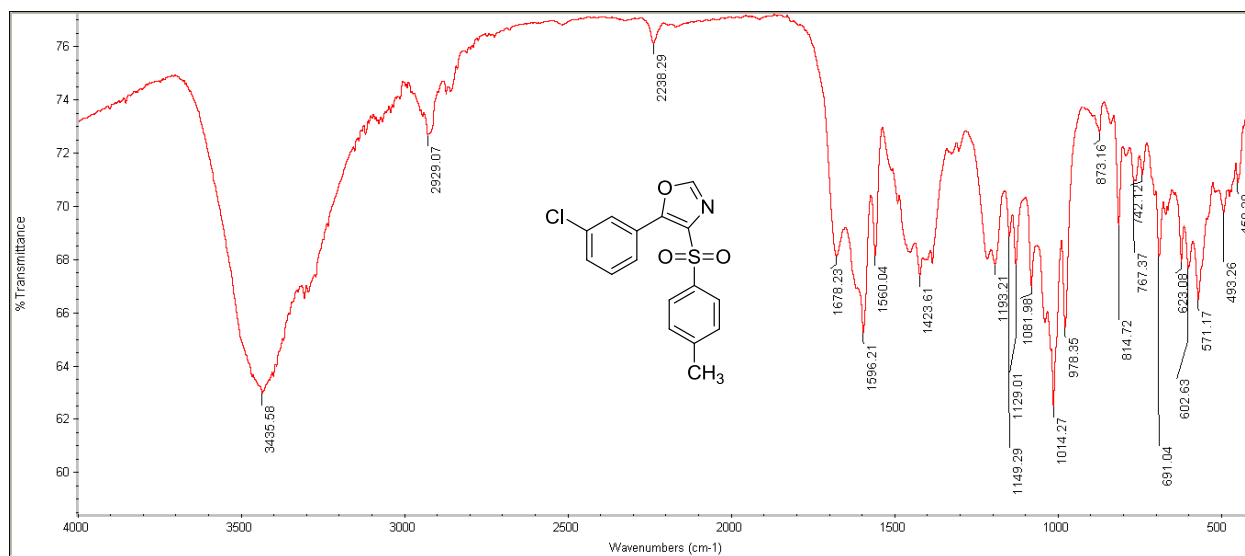
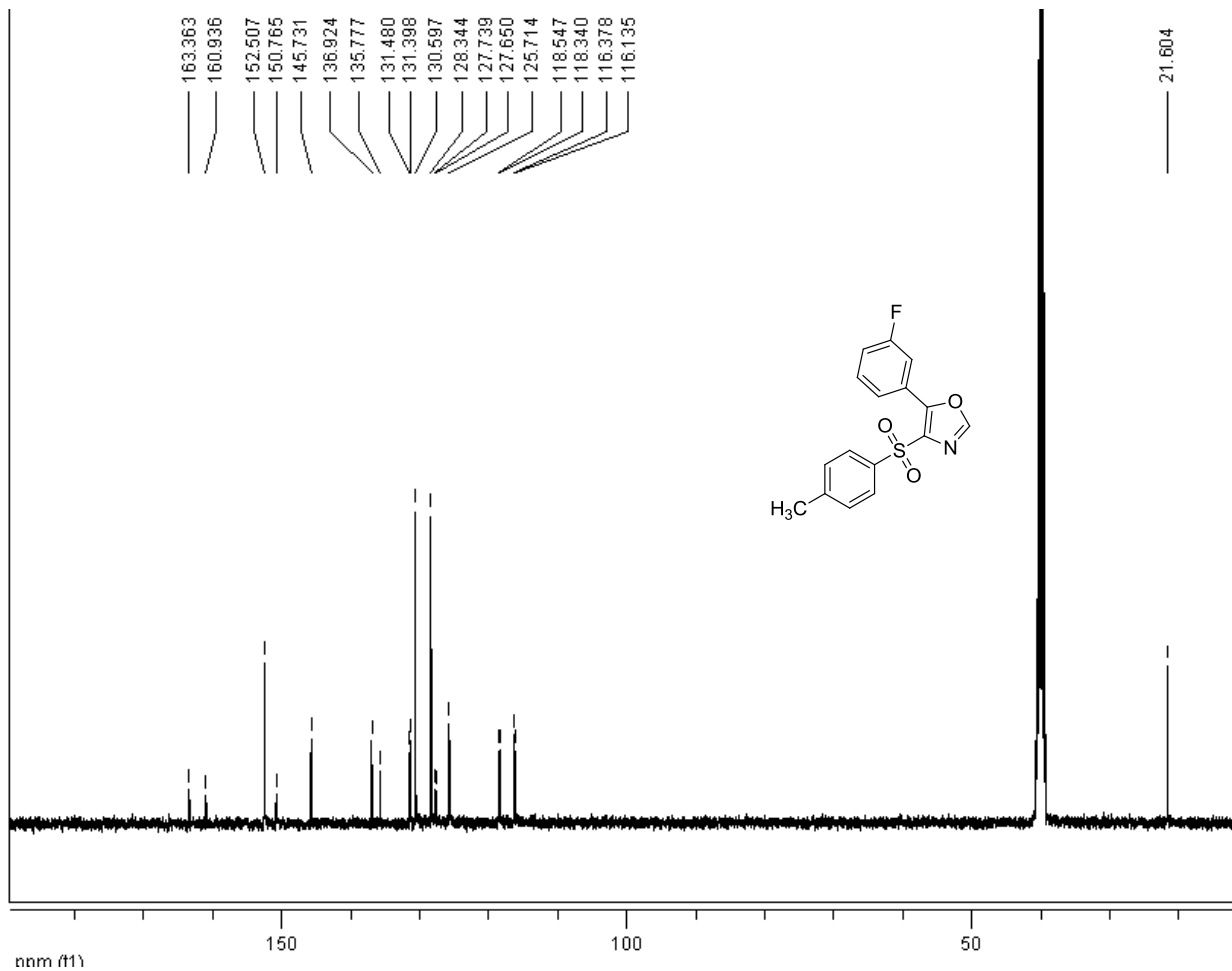


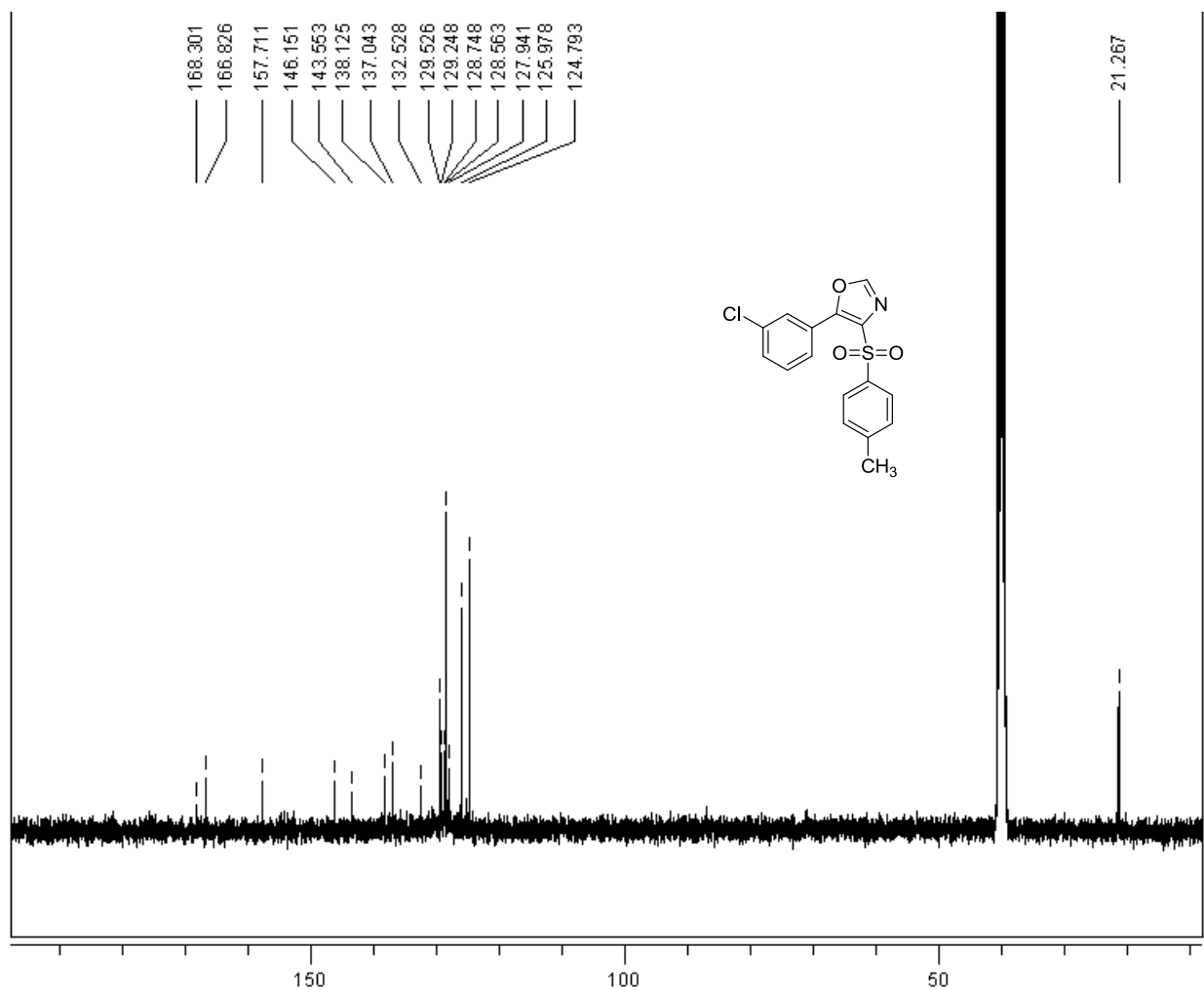


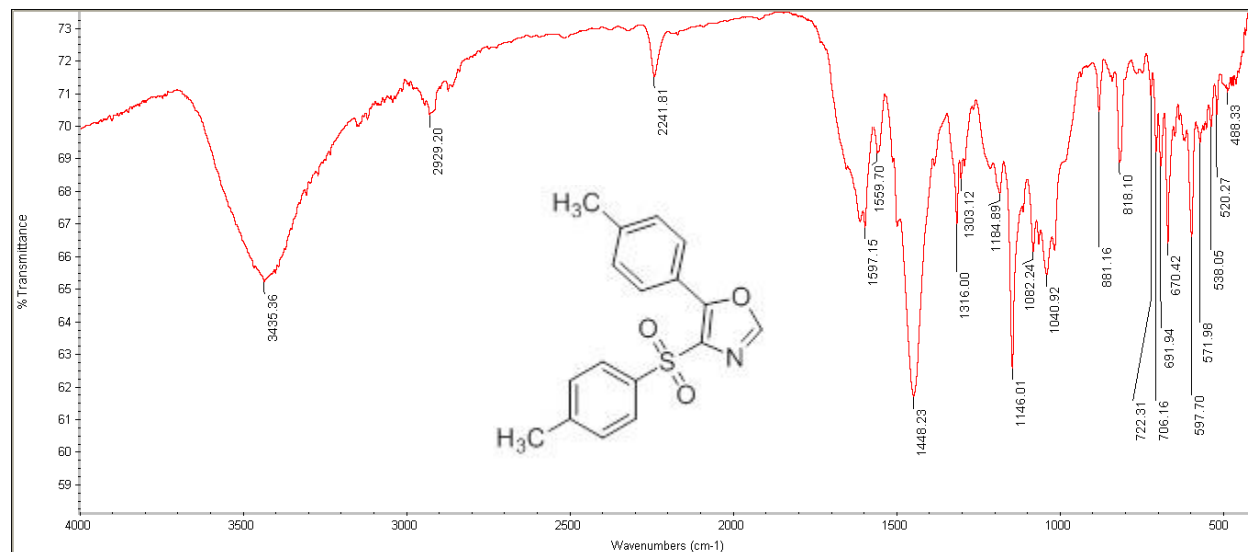


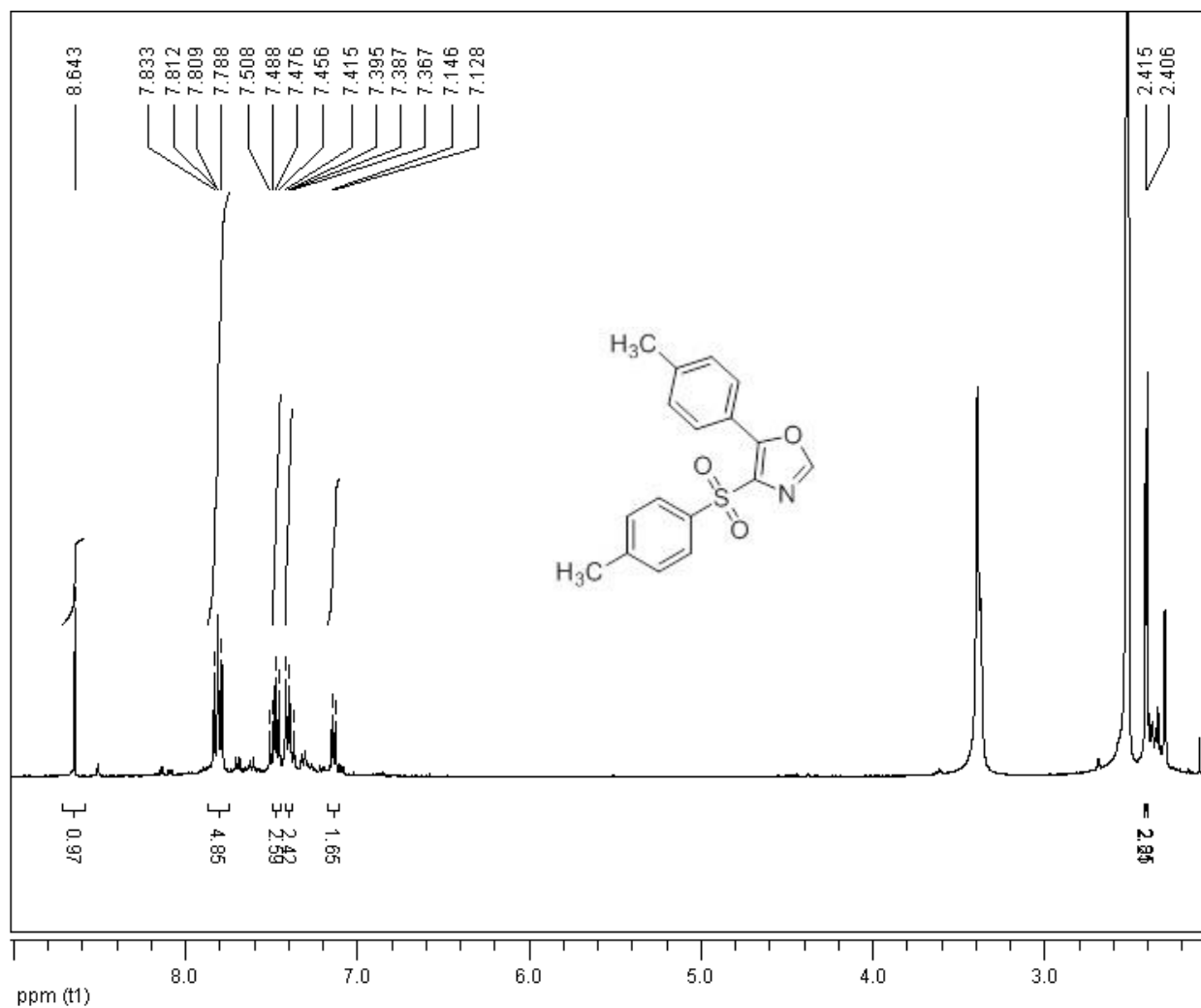


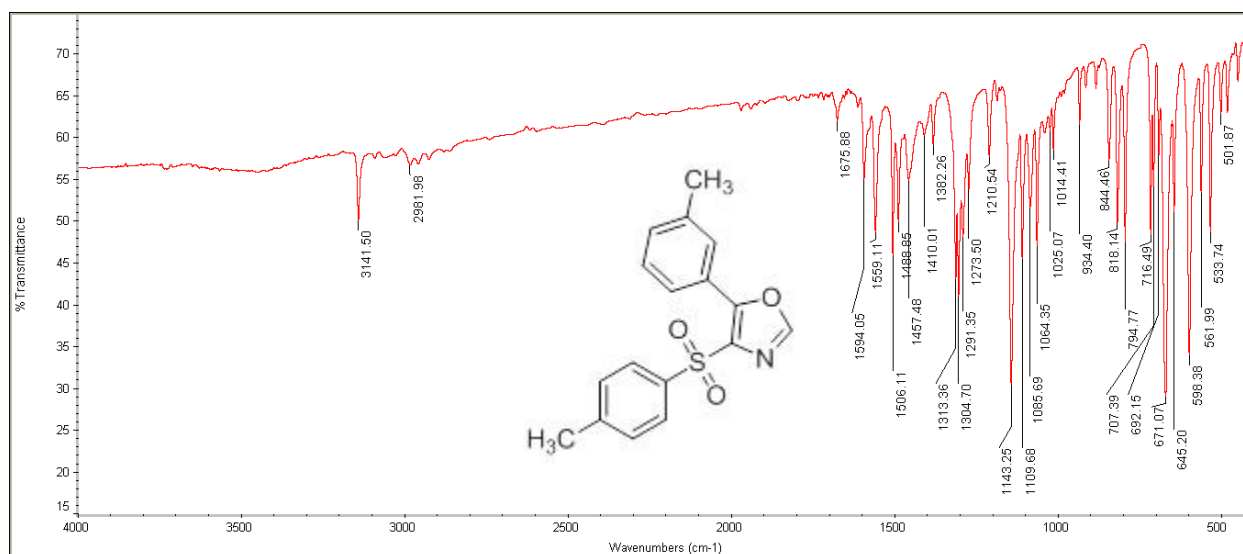
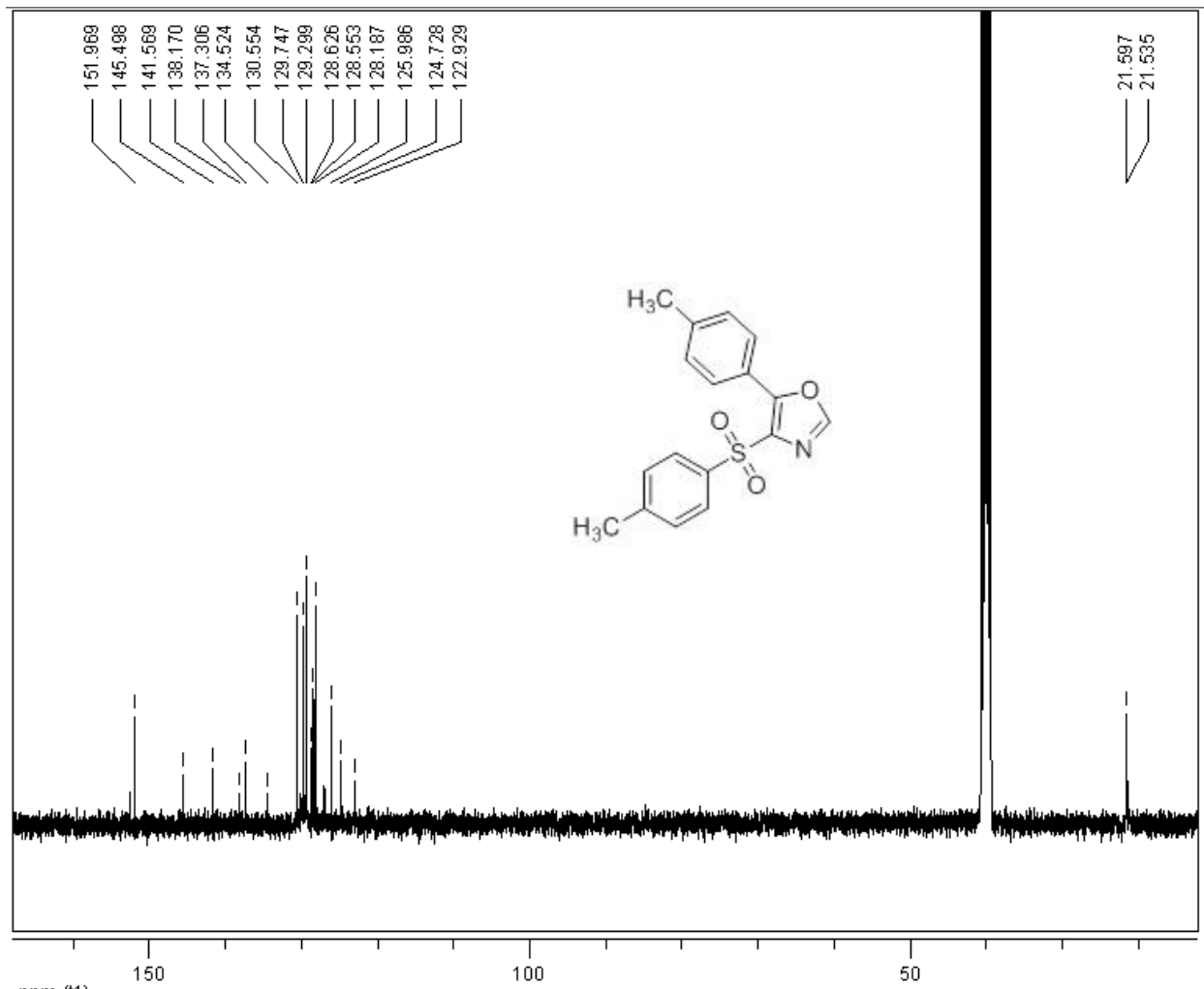


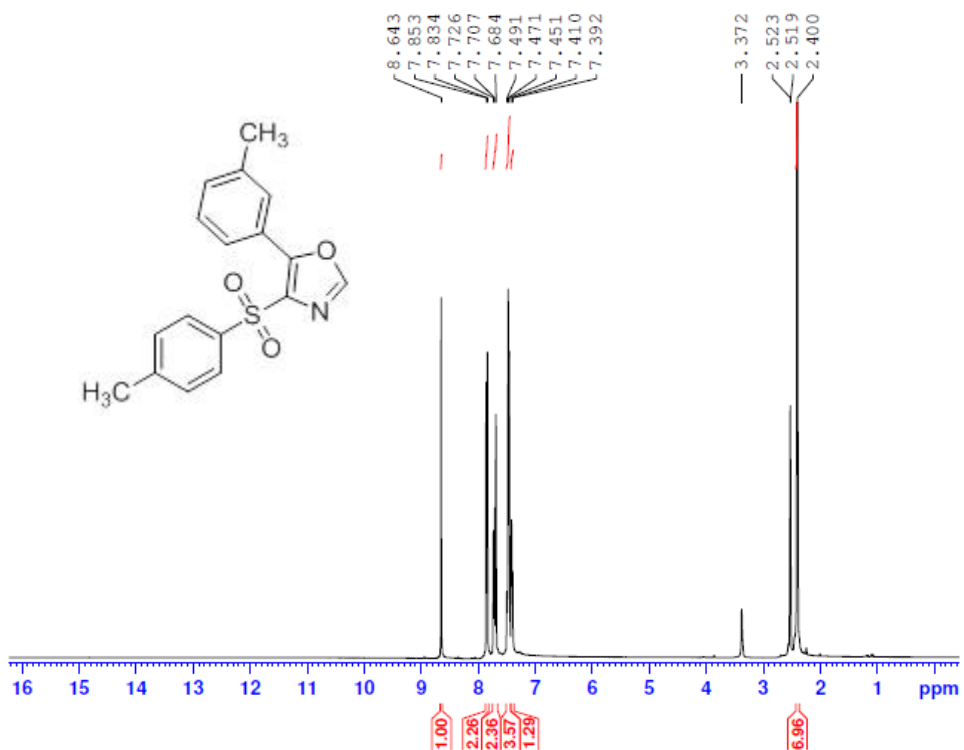












**BRUKER**

```

NAME      Rafsanjan vali e asr UN
EXPNO     926
PROCNO    1
Date_     20170518
Time      11.02
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zg30
TD        65536
SOLVENT   DMSO
NS        20
DS        0
SWH       8012.820 Hz
FIDRES    0.122266 Hz
AQ        4.0894966 sec
RG        80.6
DW        62.400 usec
DE        6.50 usec
TE        296.8 K
D1        4.00000000 sec
TD0       1

----- CHANNEL f1 -----
NUC1      1H
PI        14.00 usec
PL1       -2.00 dB
PL1W      11.86359406 W
SFO1      400.2236020 MHz
SI        32768
SF        400.2200000 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00
    
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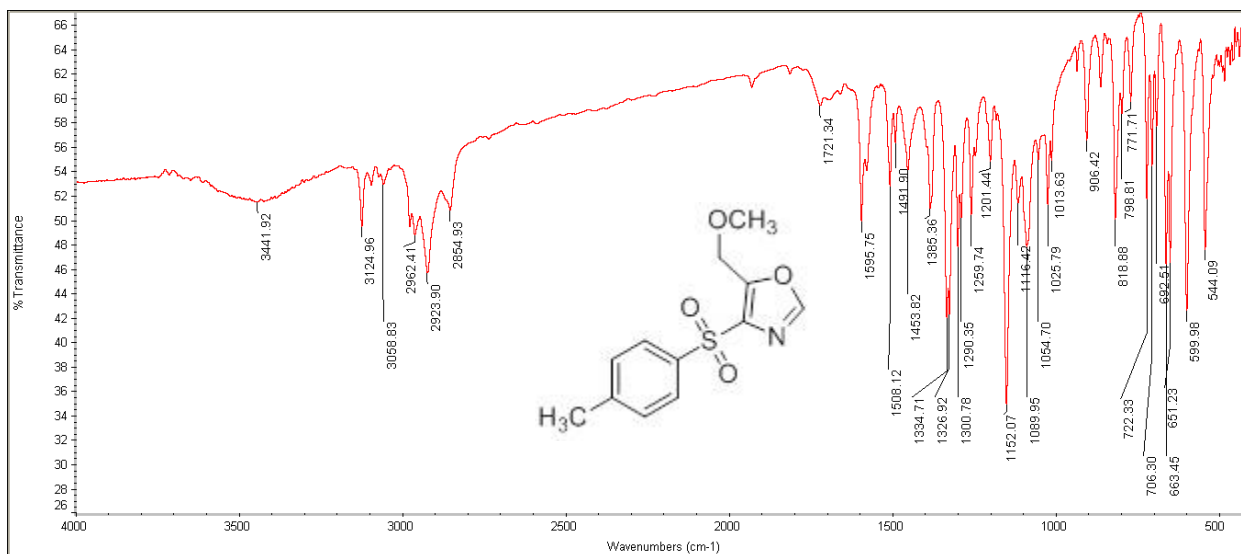
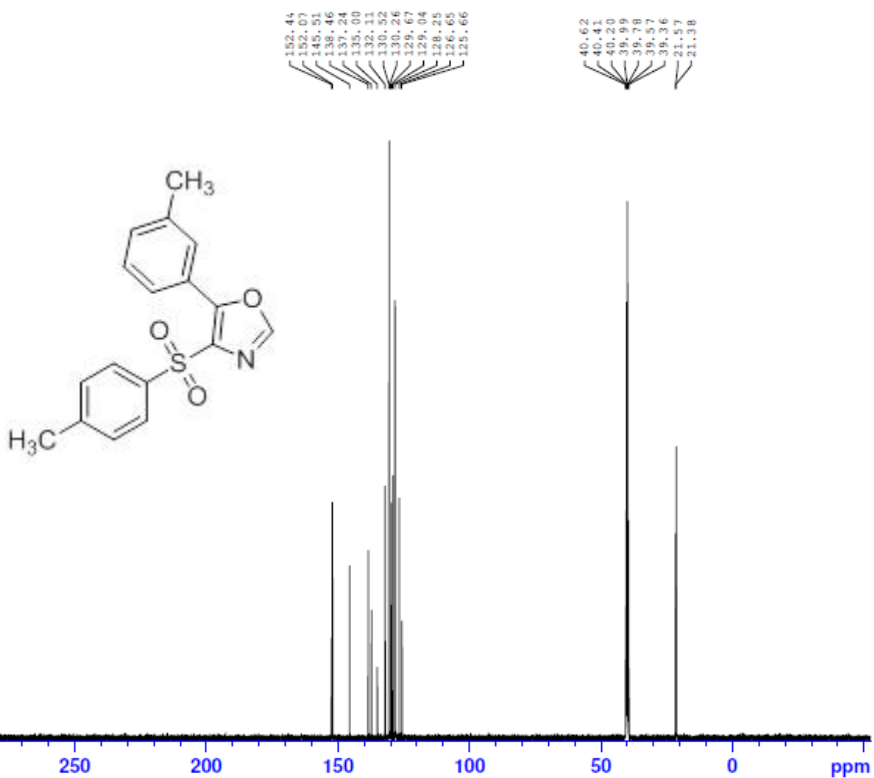


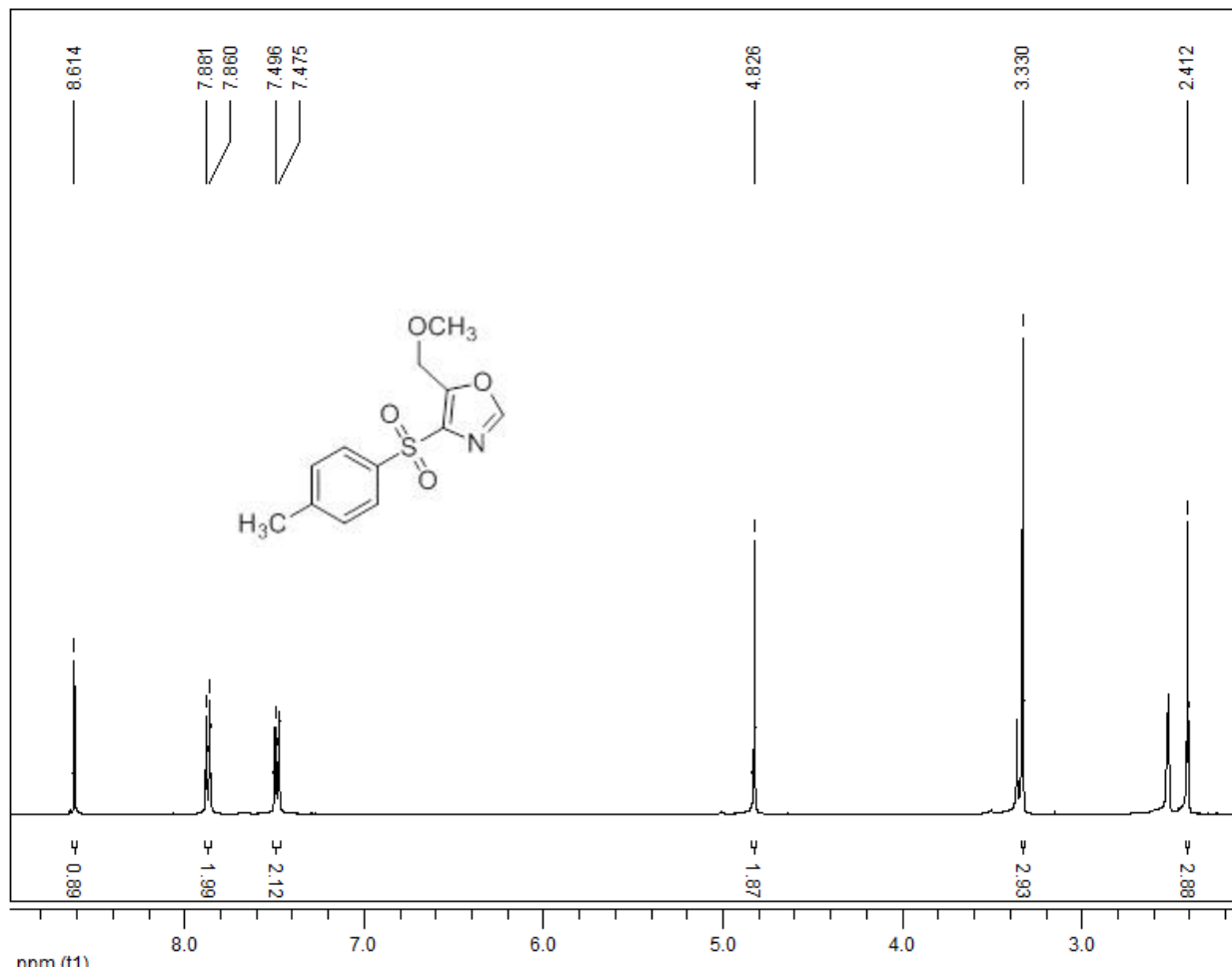
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NAME Rafsanjan vaill o asr U
EXPNO 1
PROCNO 1
Date_ 20170602
Time 11.26
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 6536
SOLVENT DMSO
NS 524
DS 0
SWH 35714.285 Hz
FIDRES 0.544957 Hz
AQ 0.9175540 sec
RG 2050
DW 14.000 usec
DE 6.50 usec
TE 295.5 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

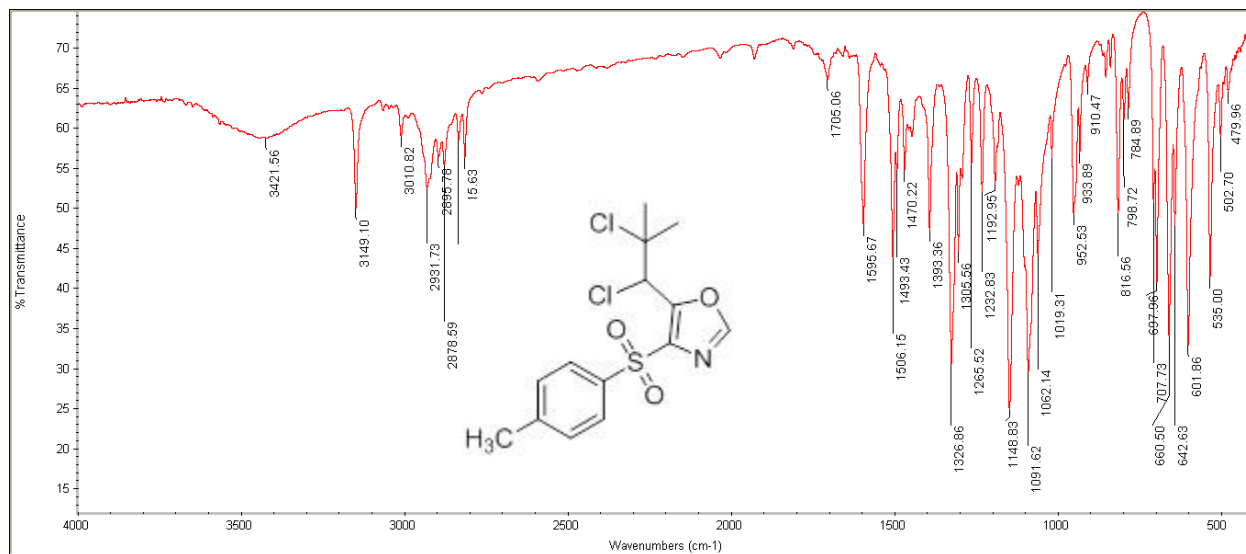
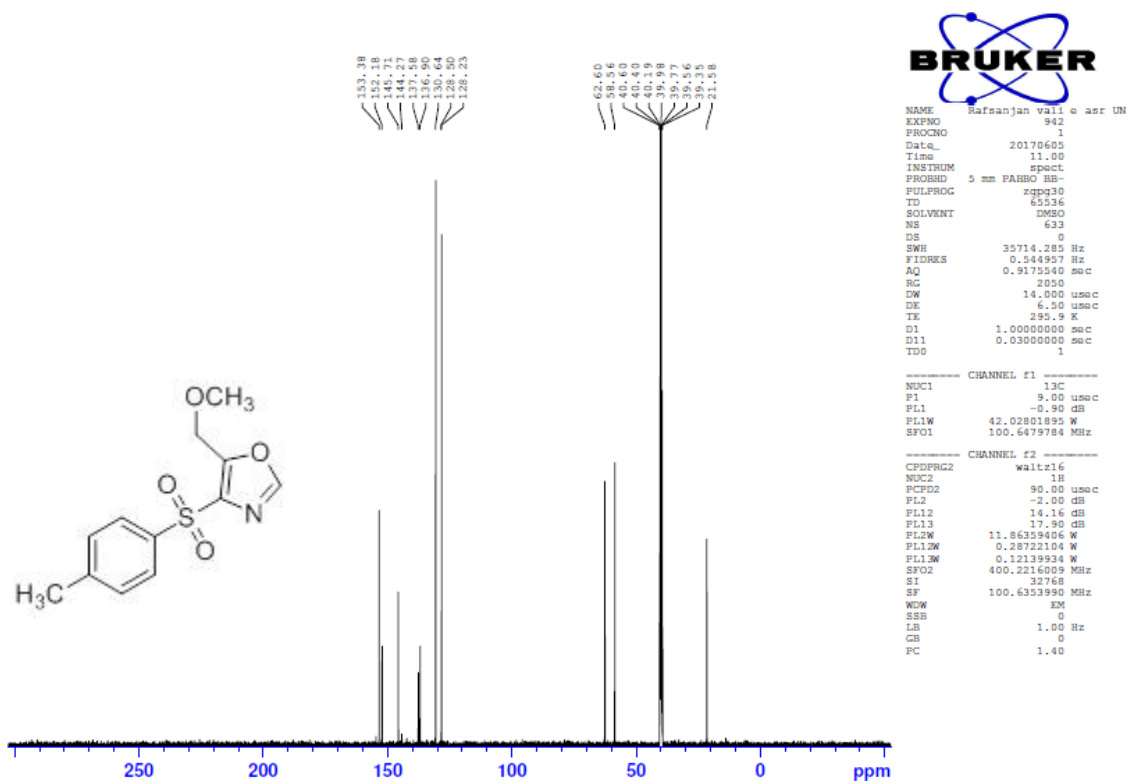
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NUC1 13C
P1 9.00 usec
PL1 -0.90 dB
PLW 42.02801895 W
SFO1 100.6479784 MHz

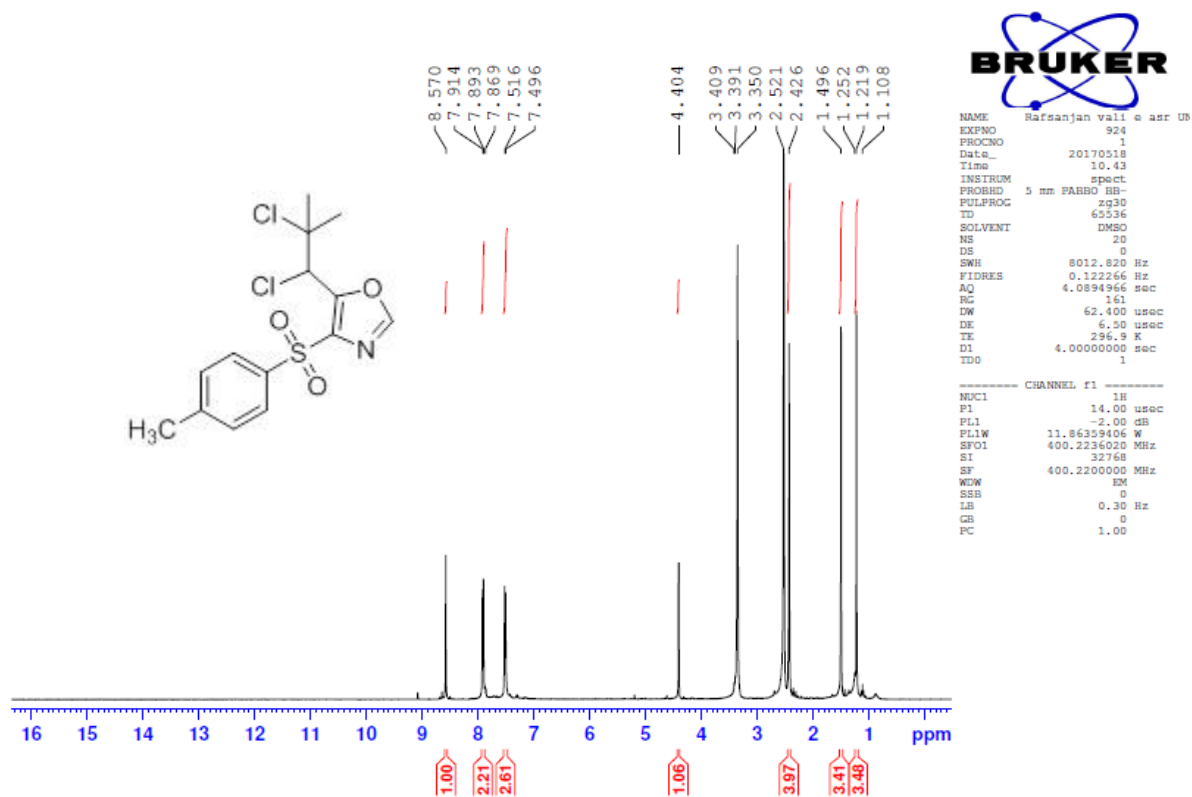
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CPDPRG2 waitz16
NUC2 1H
PCPD2 90.00 usec
PL2 -2.00 dB
PL12 14.16 dB
PL13 17.90 dB
PLW 11.85339406 W
PL12W 0.28722104 W
PL13W 0.12139934 W
SFO2 400.2216009 MHz
SI 32768
SF 100.6353990 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
    
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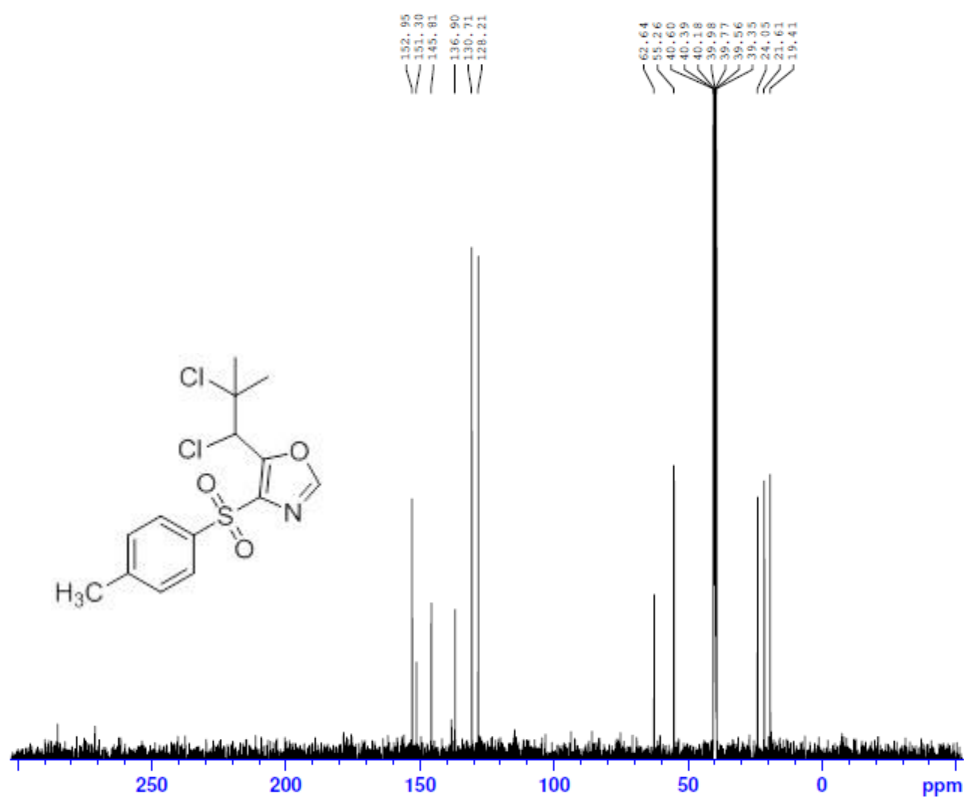












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NAME      Hafsanzjan val1 o asr
EXPNO    941
PROCNO   1
Date_    20170605
Time     10.31
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD        65536
SOLVENT  DMSO
NS        545
DS        0
SWH       35714.285 Hz
FIDRES   0.544957 Hz
AQ        0.9175540 sec
RG        2050
DM        14.000 usec
DE        6.50 usec
TE        296.1 K
D1        1.0000000 sec
D11       0.03000000 sec
TD0       1
  
```

```

----- CHANNEL f1 -----
NUC1      13C
P1        9.00 usec
PL1       -0.90 dB
PL1W      42.02801895 W
SFO1      100.6479784 MHz
  
```

```

----- CHANNEL f2 -----
CPDPRG2  waltz16
NUC2      1H
PCPD2    90.00 usec
PL2       -2.00 dB
PL12      14.16 dB
PL13      17.90 dB
PL2W      11.86329406 W
PL1W      0.23722104 W
SFO2      400.2216009 MHz
SI        32768
SF        100.6353990 MHz
WEW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        1.40
  
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