

IR Spectroscopy:

Figure S1: IR Spectroscopy of Compound 5a

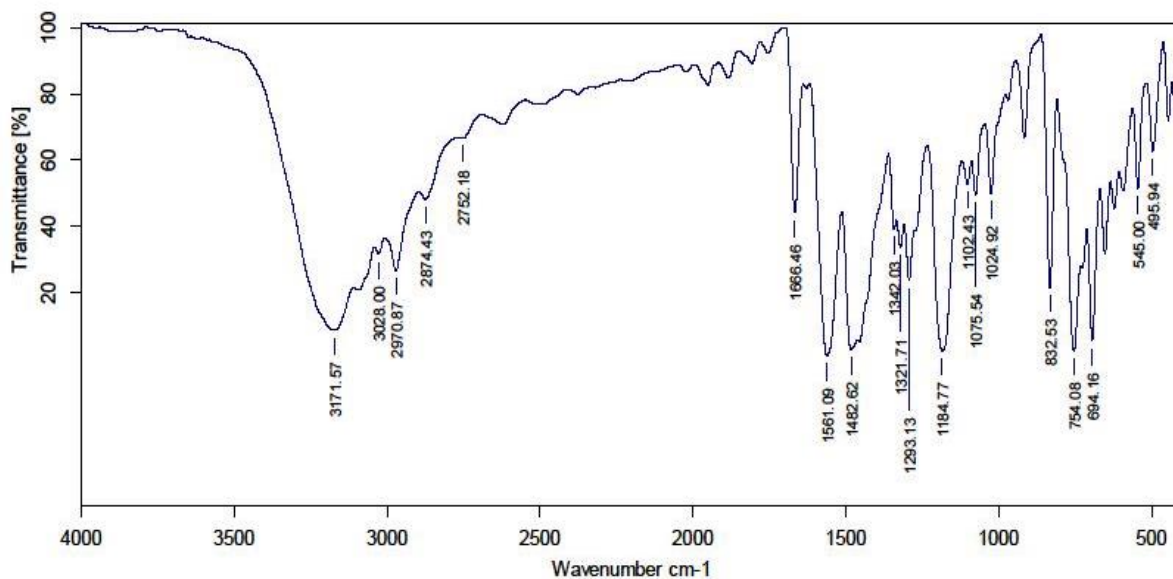
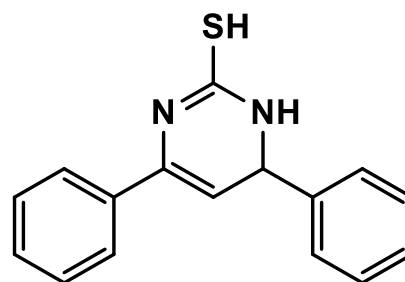


Figure S2: IR Spectroscopy of Compound 5b

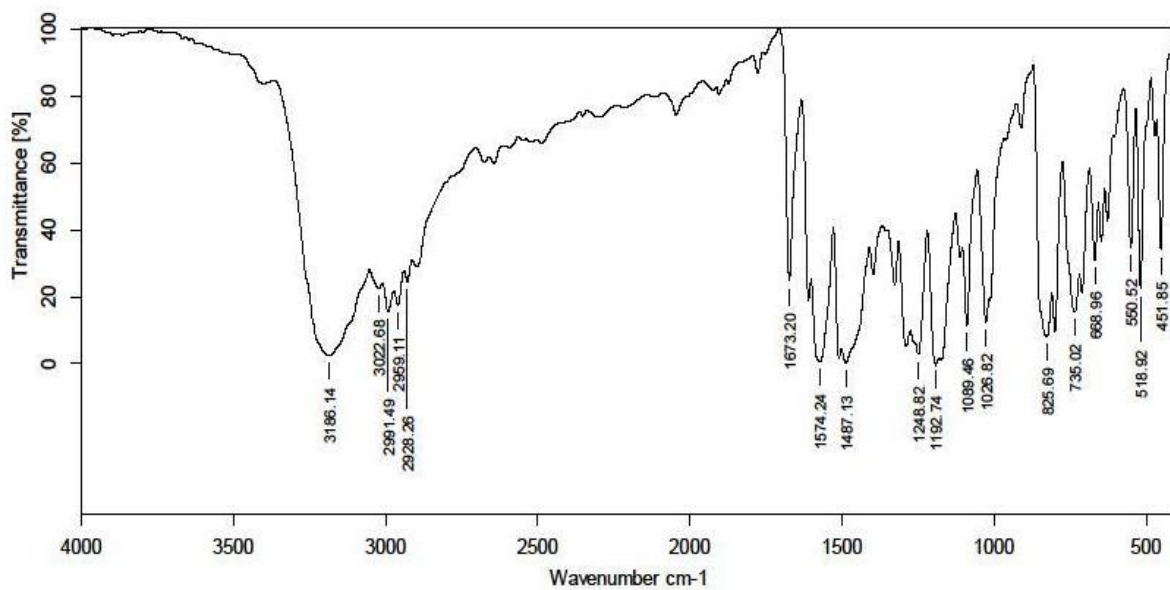
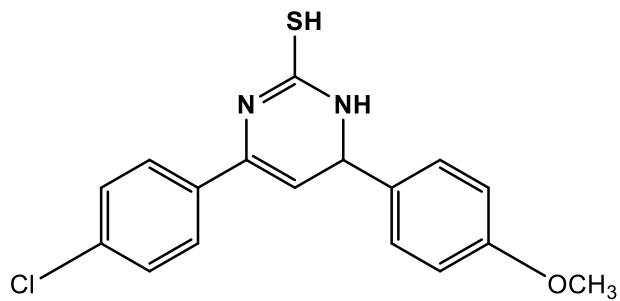


Figure S3: IR Spectroscopy of Compound 5c

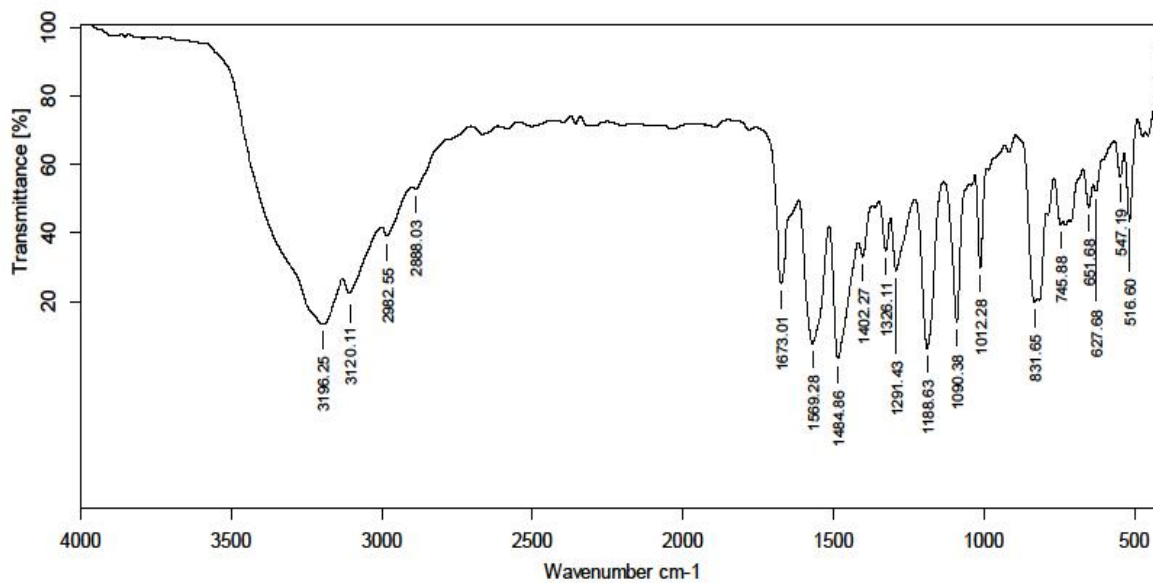
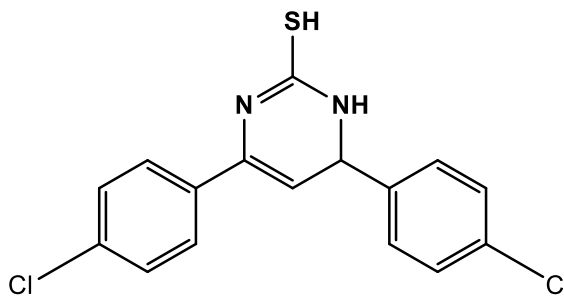


Figure S4: IR Spectroscopy of Compound 5d

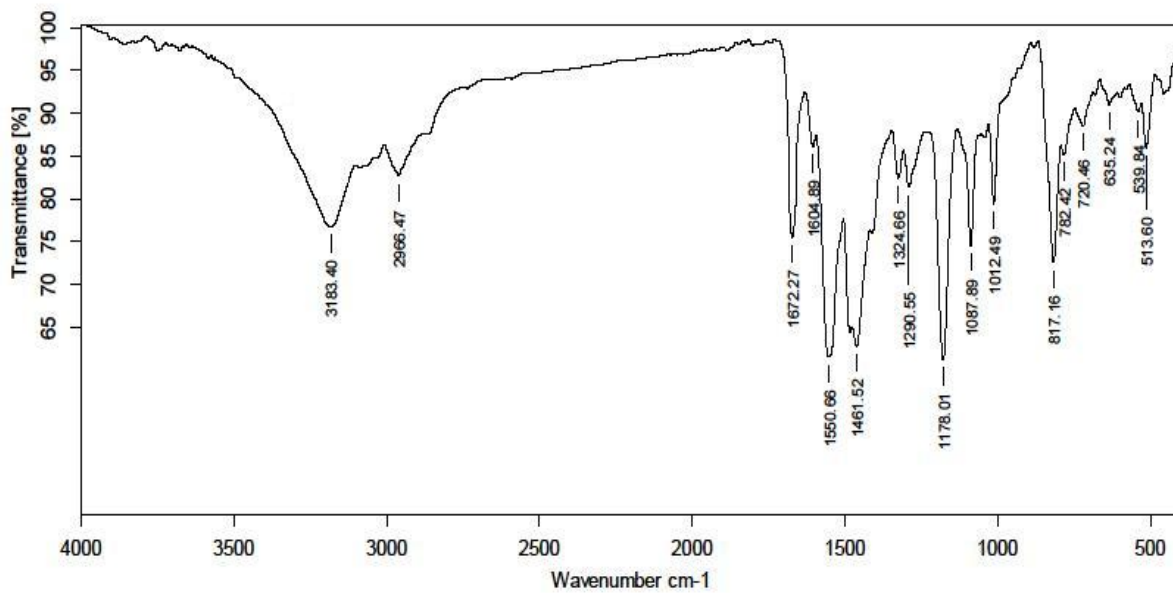
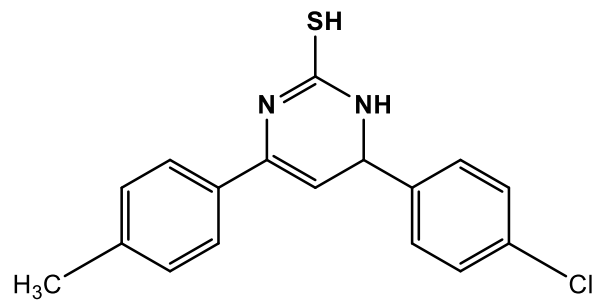


Figure S5: IR Spectroscopy of Compound 5e

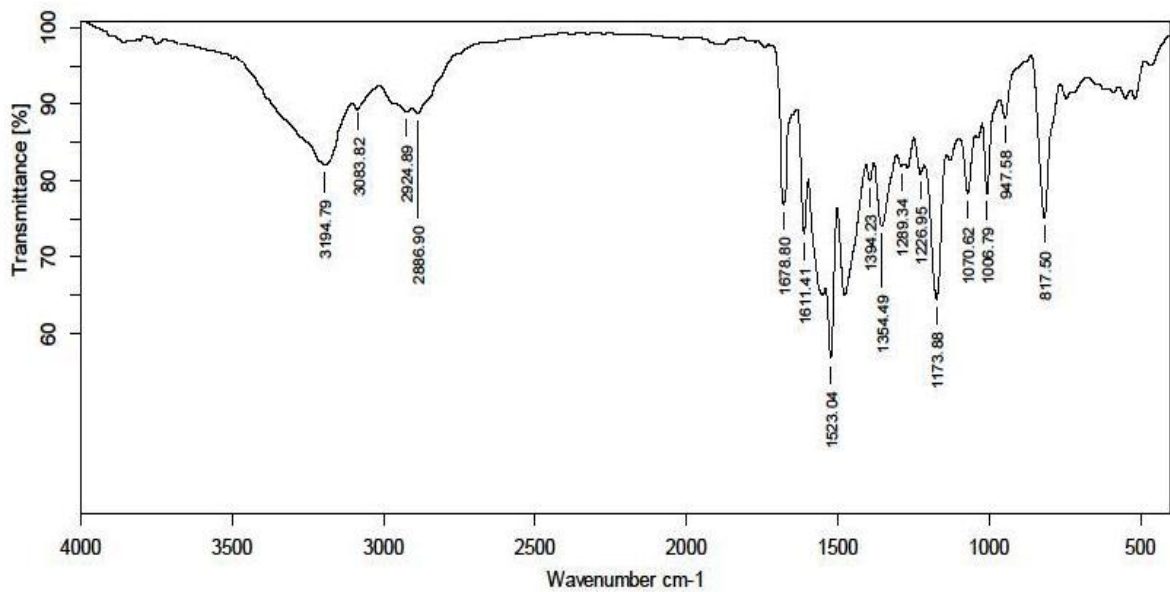
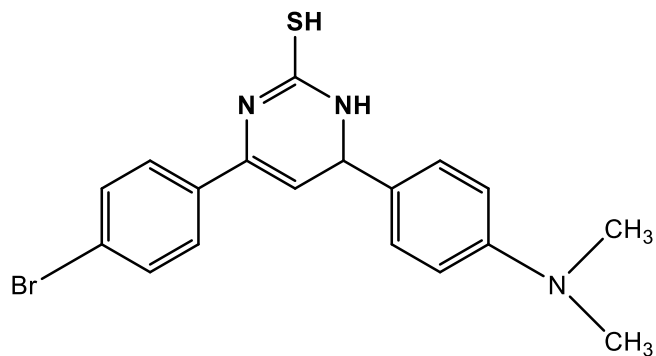


Figure S6: IR Spectroscopy of Compound 5f

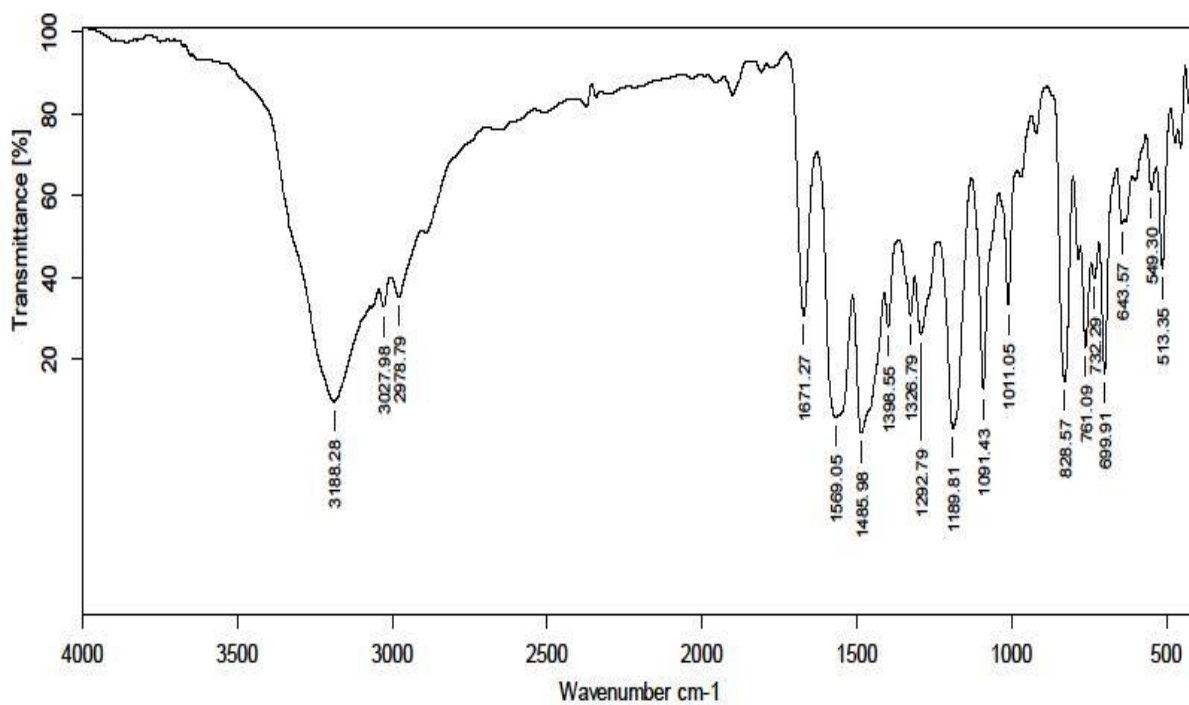
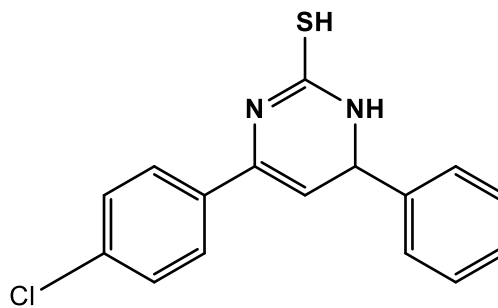


Figure S7: IR Spectroscopy of Compound 5g

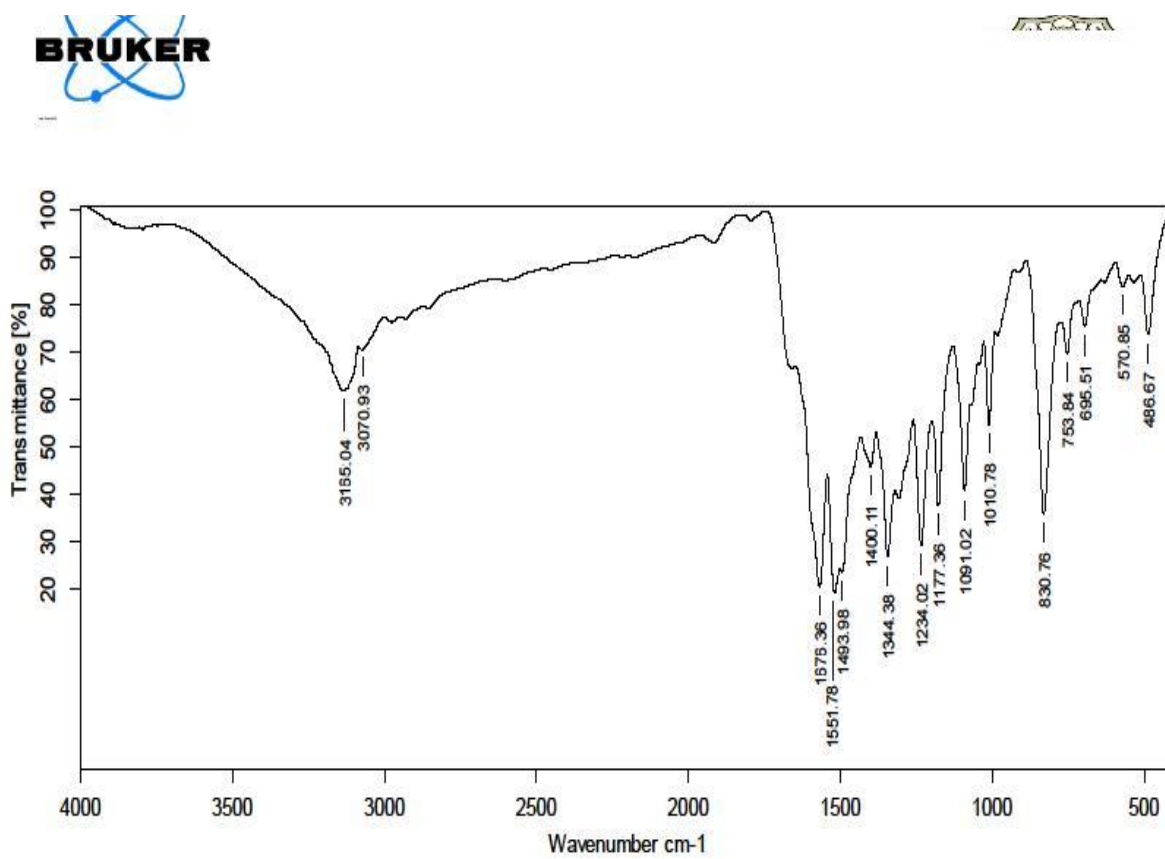
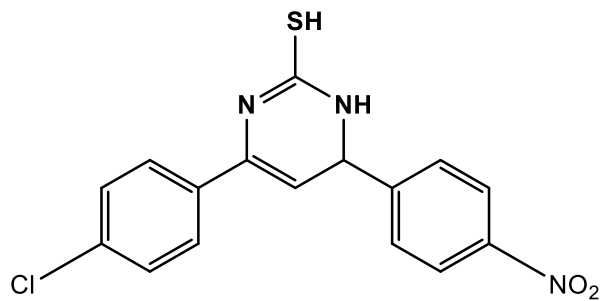


Figure S8: IR Spectroscopy of Compound 5h

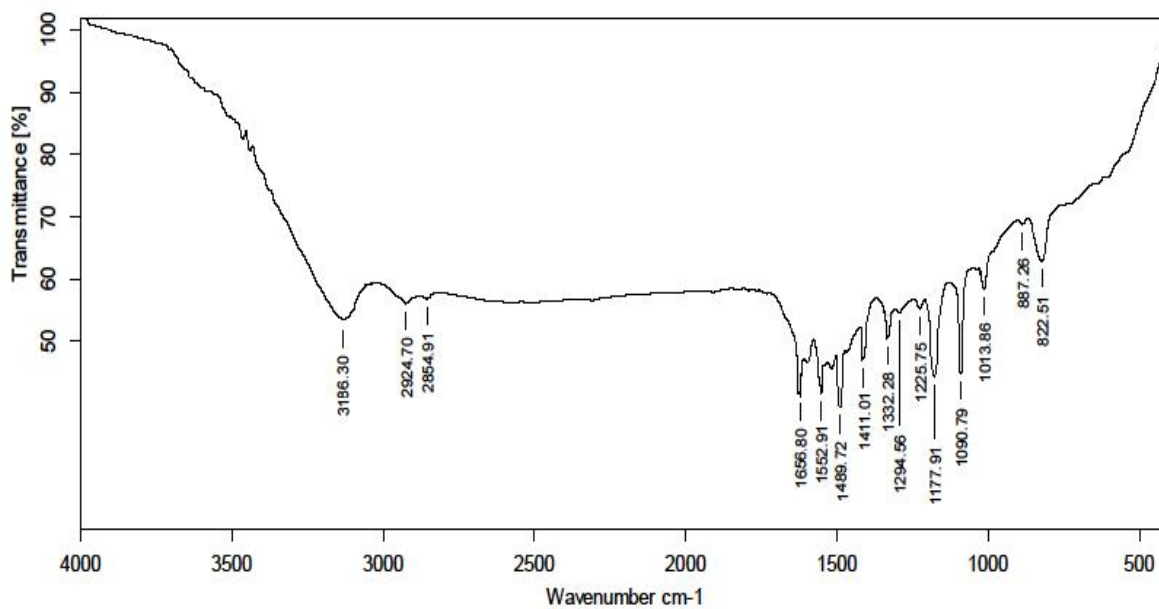
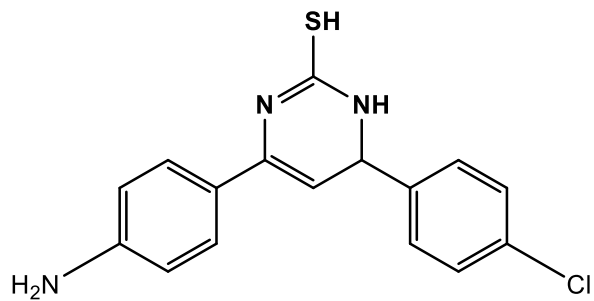


Figure S9: IR Spectroscopy of Compound 5i

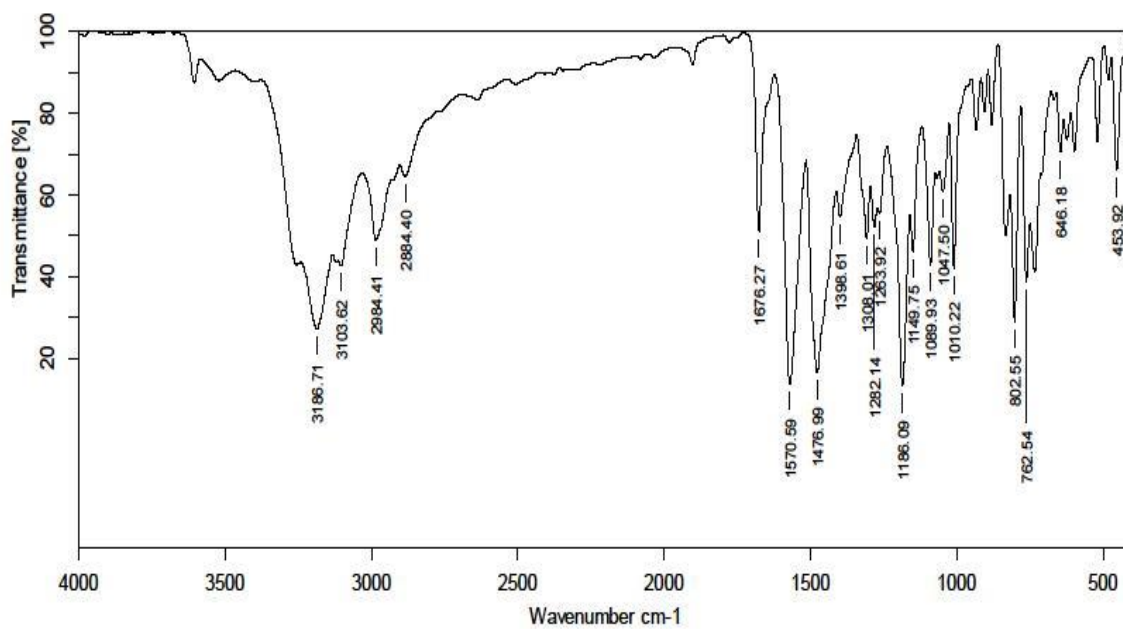
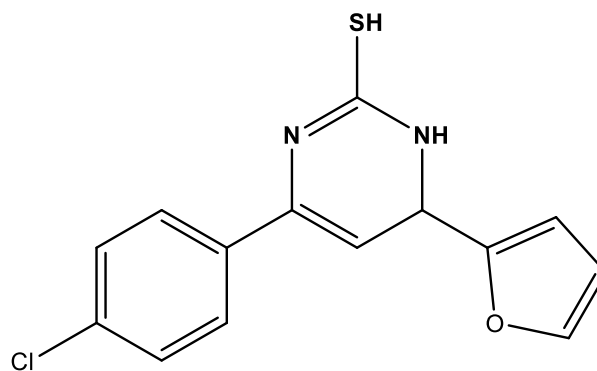


Figure S10: IR Spectroscopy of Compound 5j

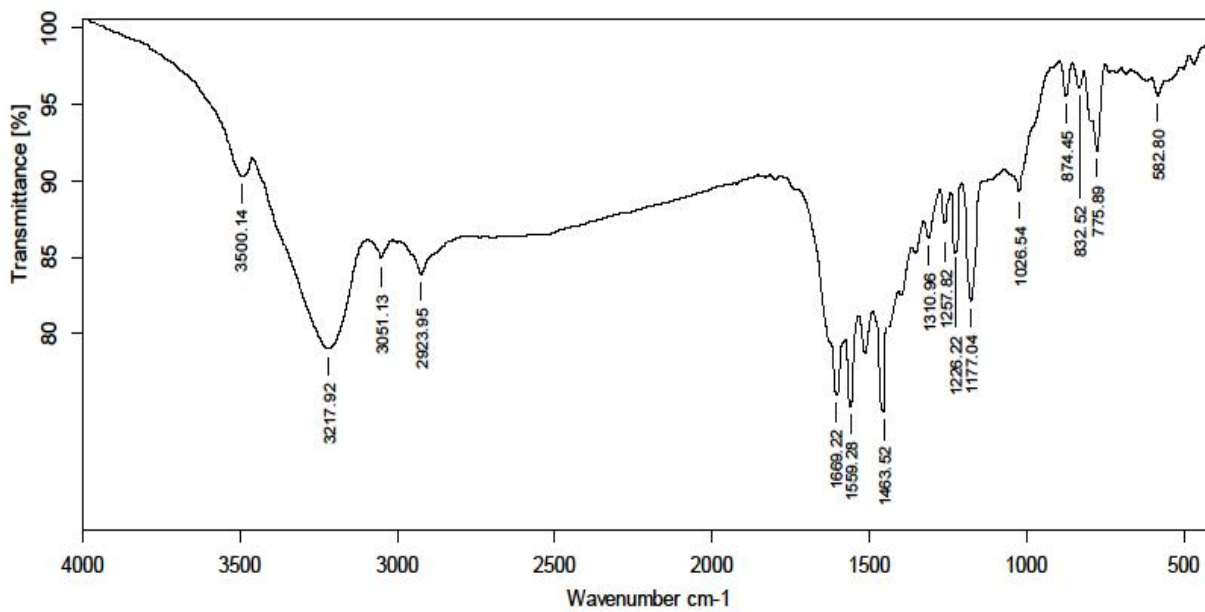
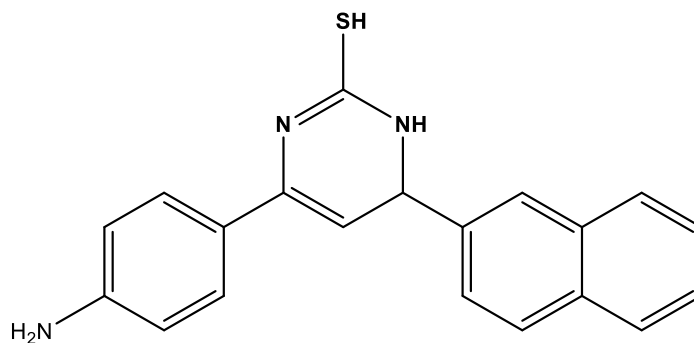


Figure S11: IR Spectroscopy of Compound 10a

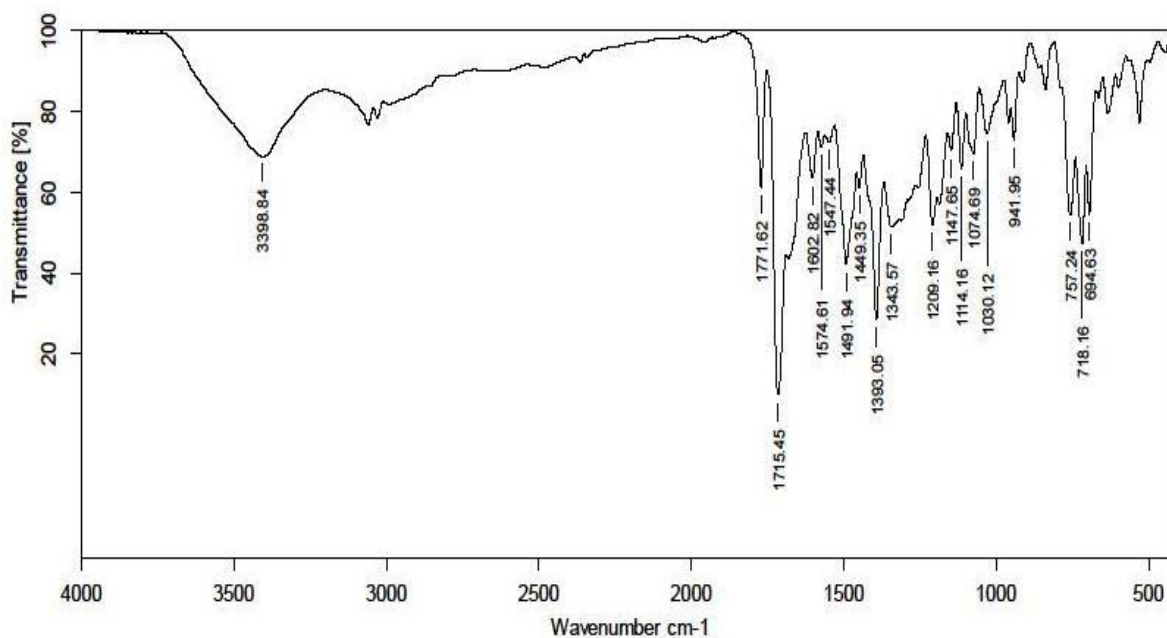
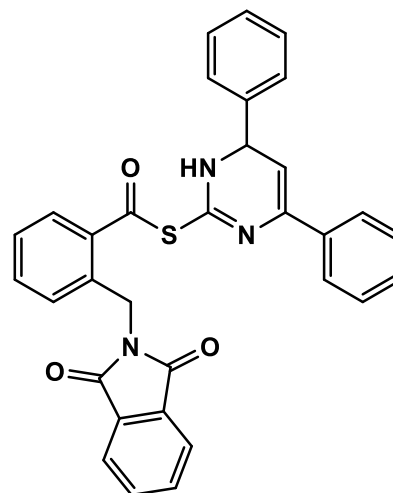


Figure S12: IR Spectroscopy of Compound 10b

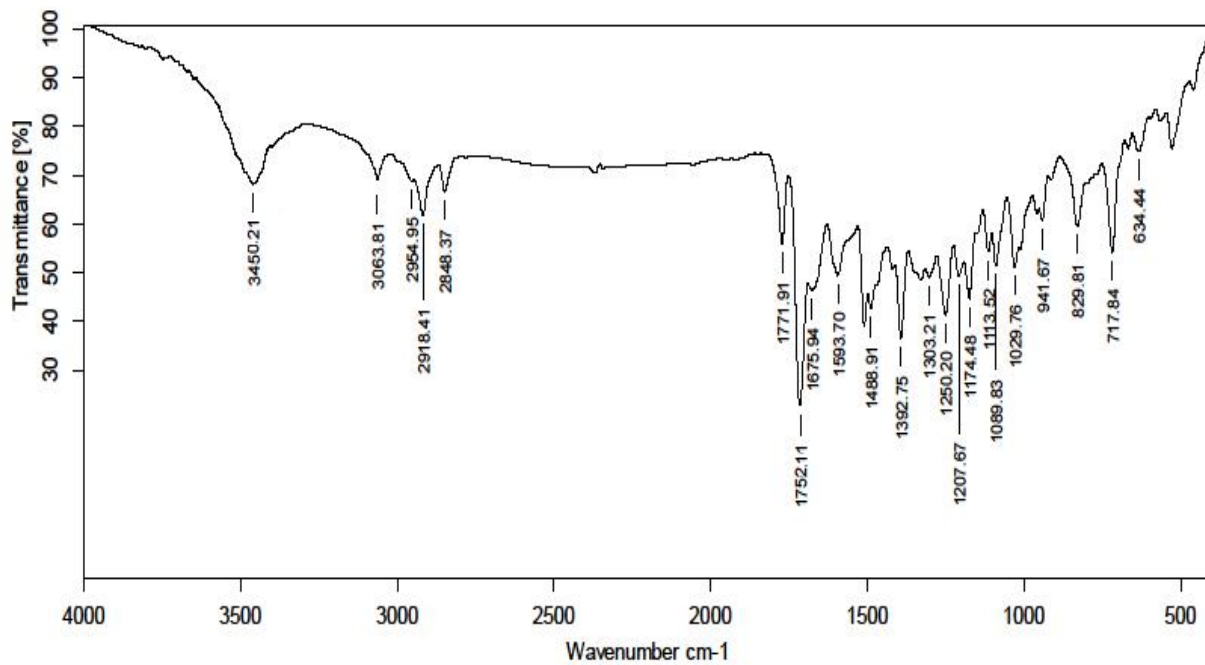
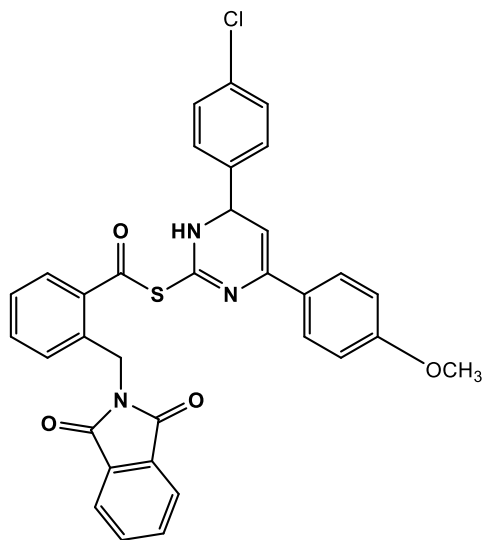


Figure S13: IR Spectroscopy of Compound 10c

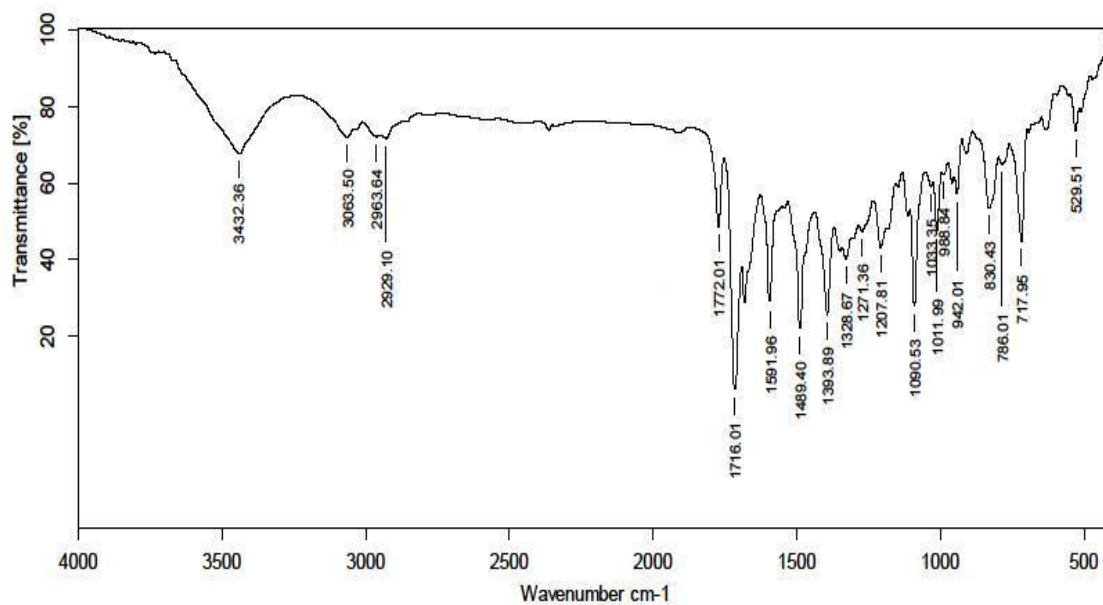
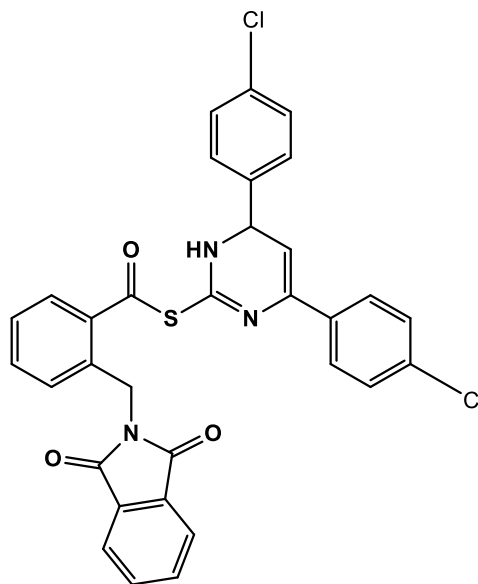


Figure S14: IR Spectroscopy of Compound 10d

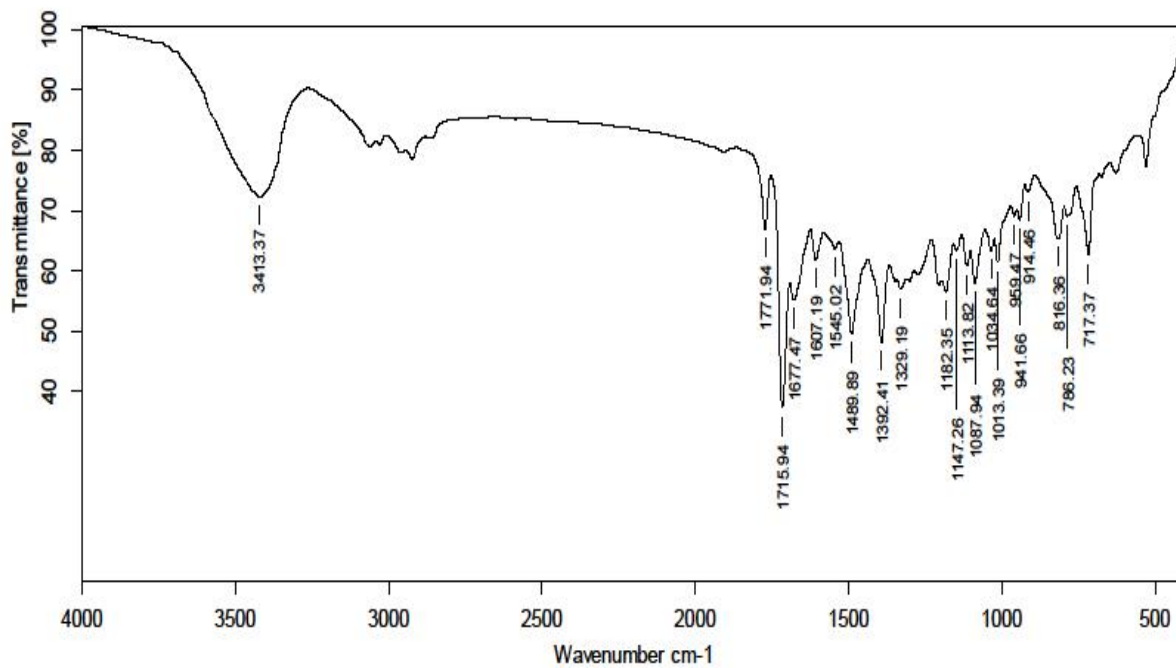
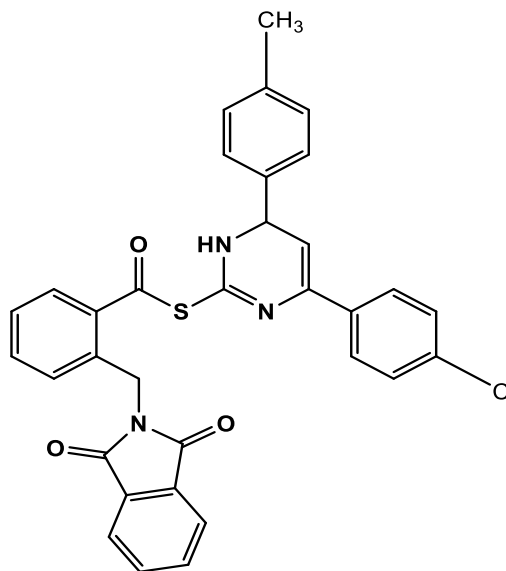


Figure S15: IR Spectroscopy of Compound 10e

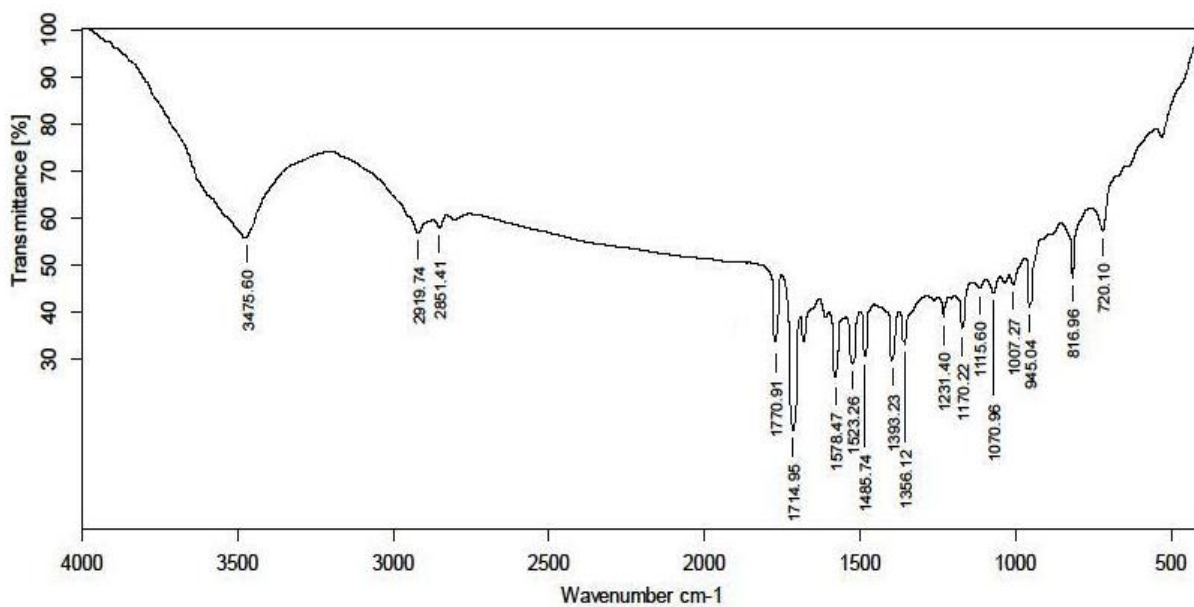
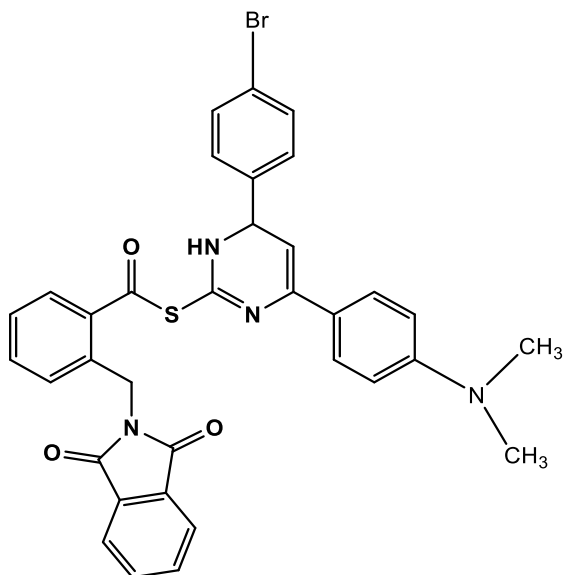


Figure S16: IR Spectroscopy of Compound 10f

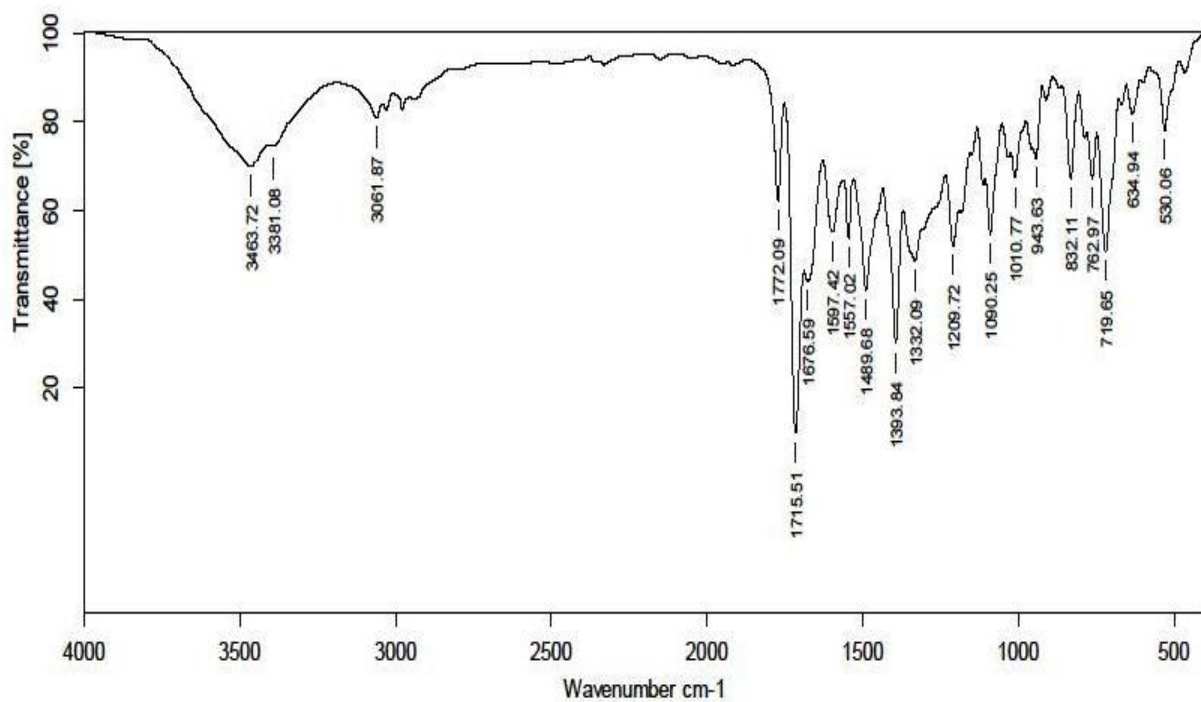
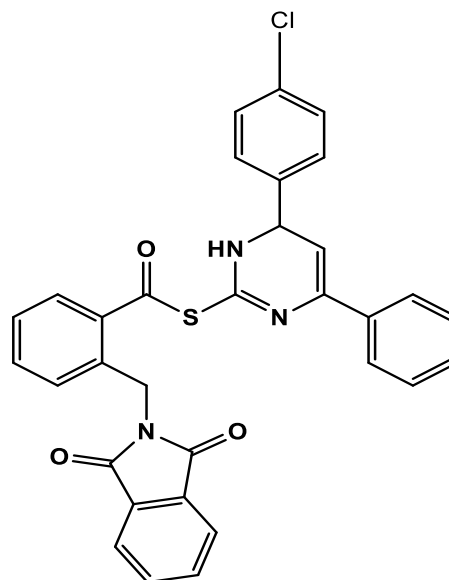


Figure S17: IR Spectroscopy of Compound 10g

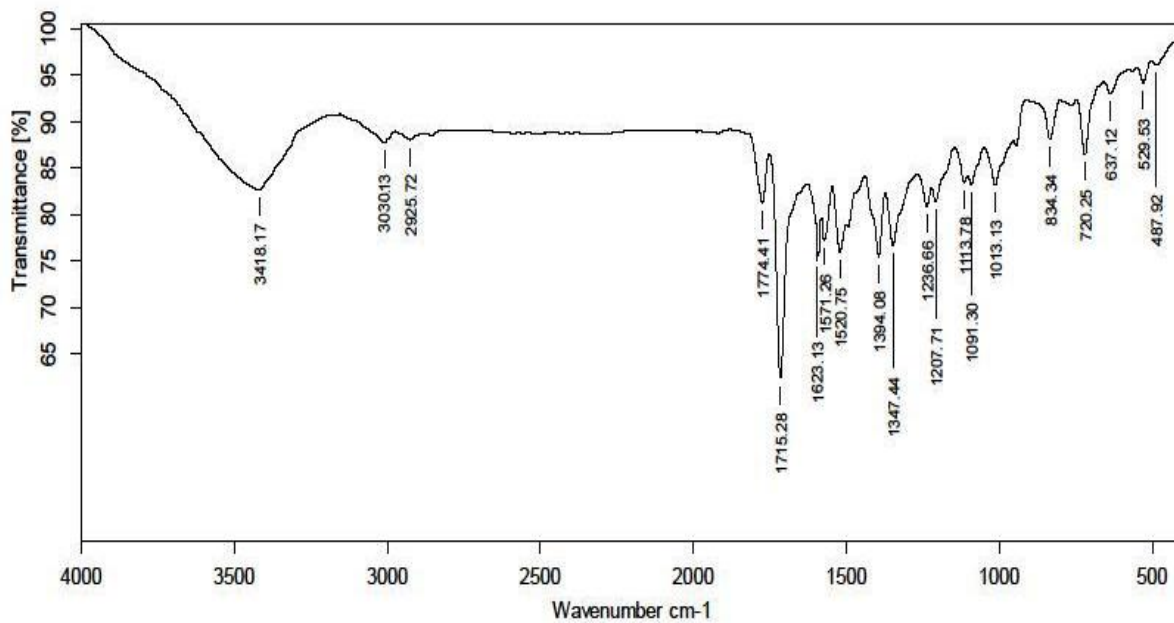
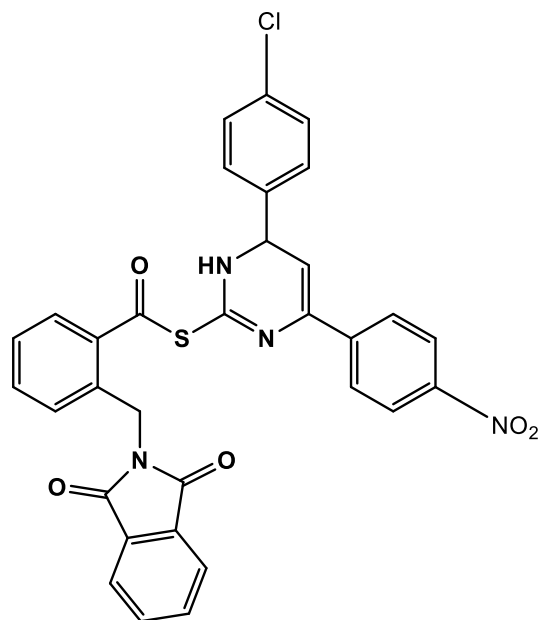


Figure S18: IR Spectroscopy of Compound 10h

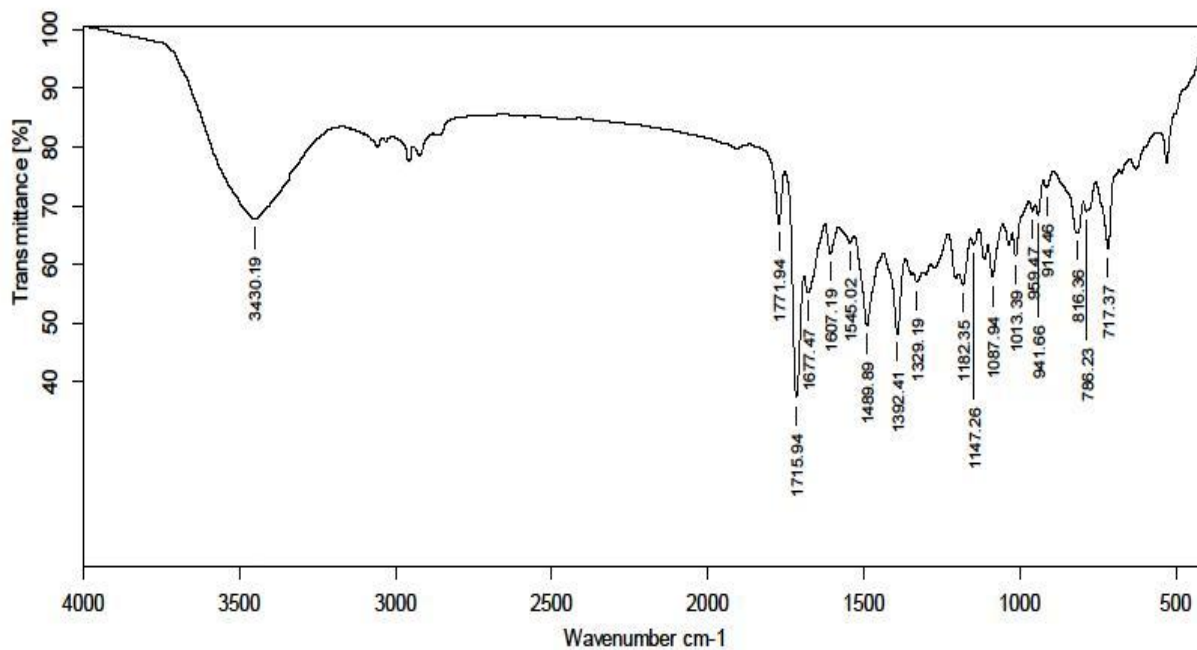
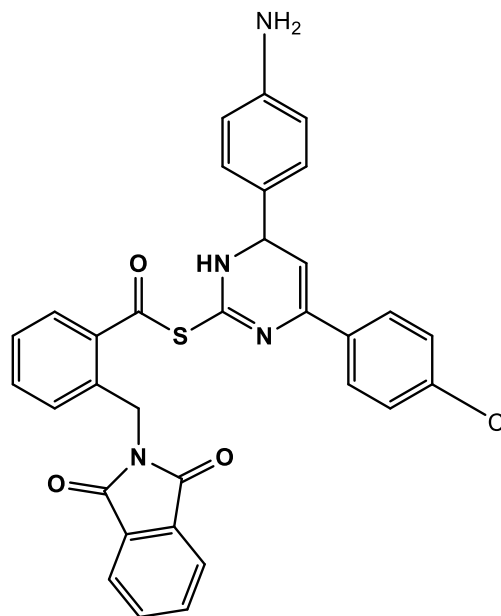


Figure S19: IR Spectroscopy of Compound **10i**

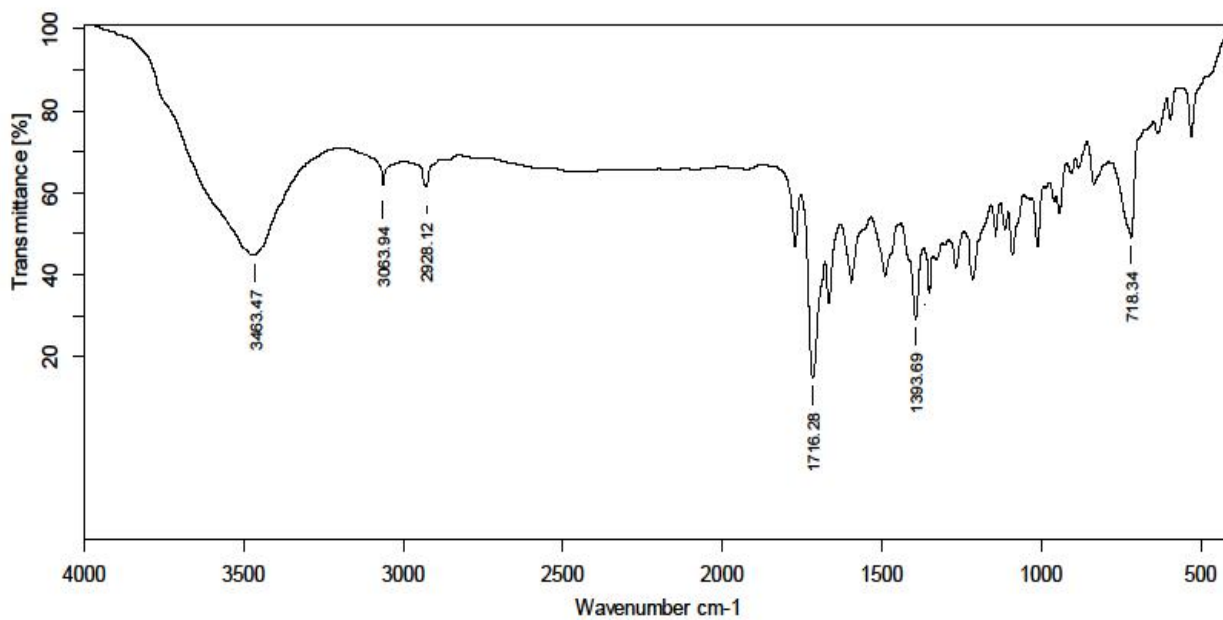
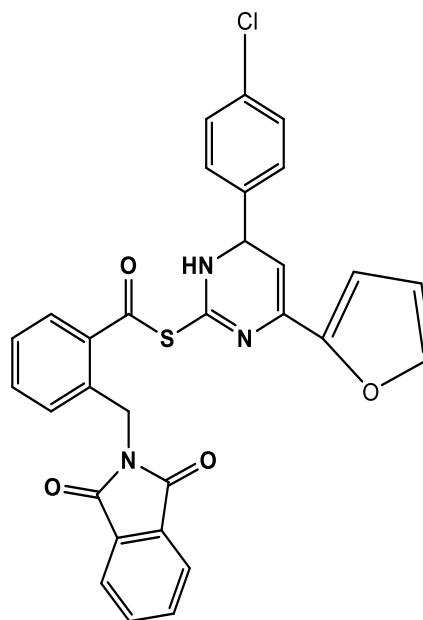
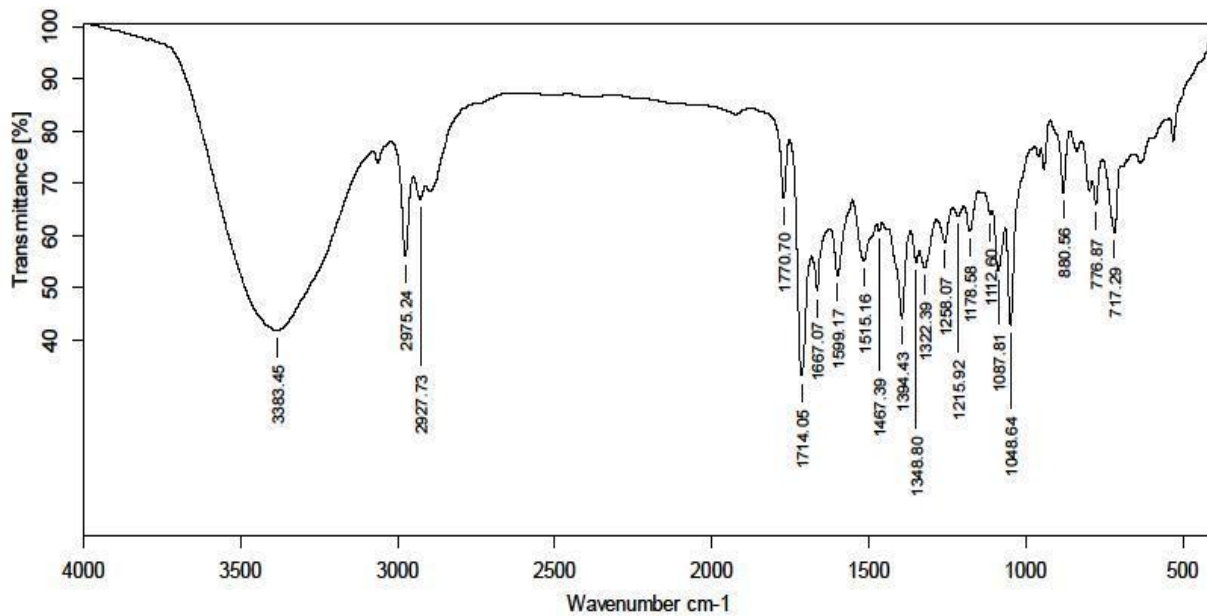
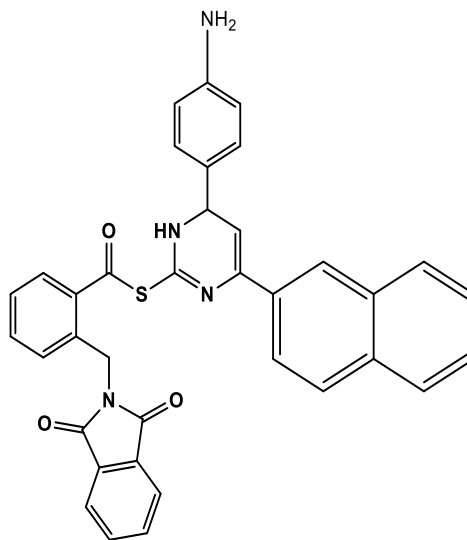


Figure S20: IR Spectroscopy of Compound 10j



¹H NMR Spectroscopy

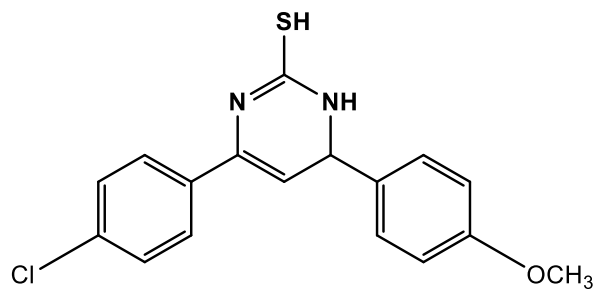


Figure S21: ¹H NMR Spectroscopy of Compound 5b

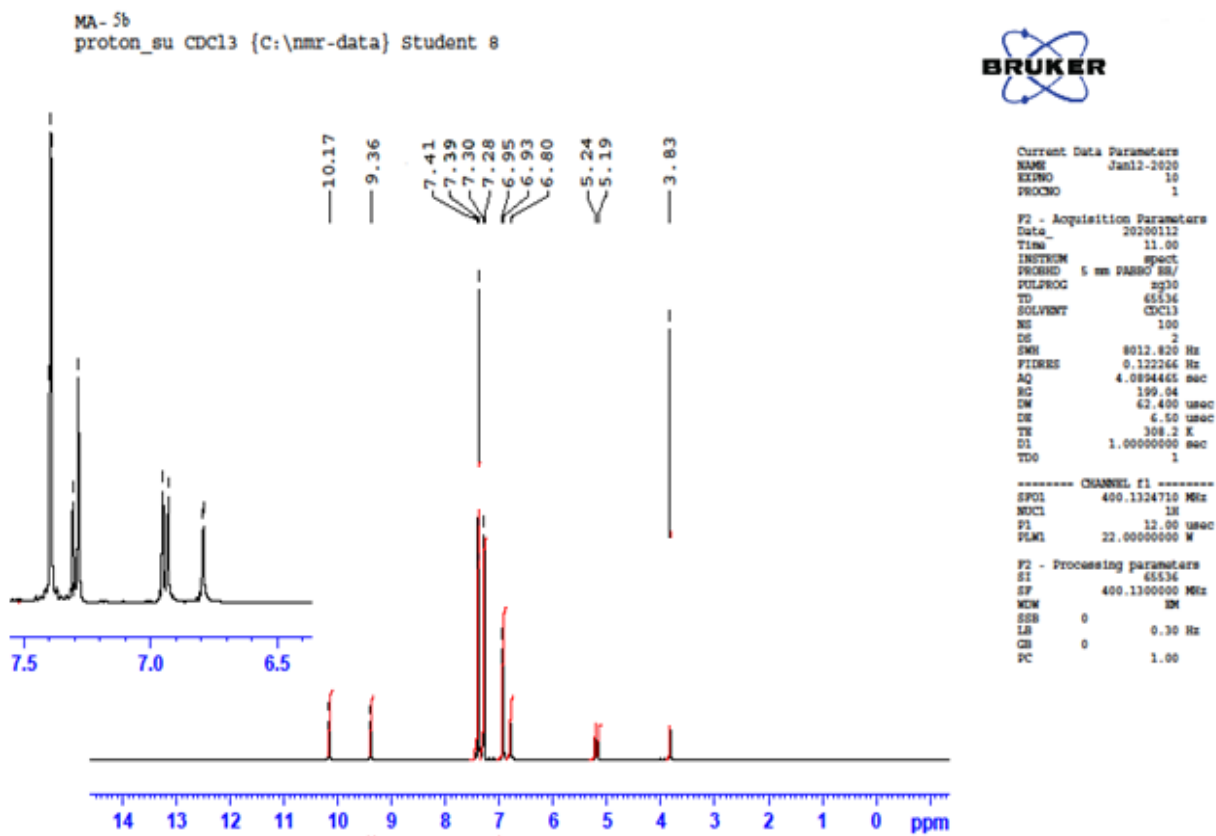
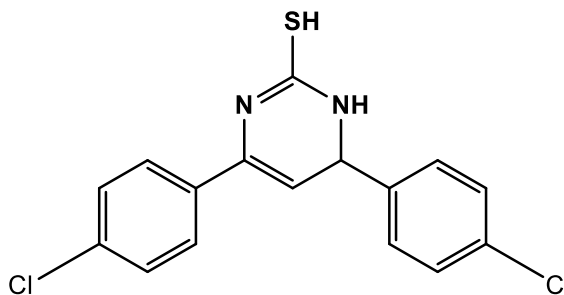
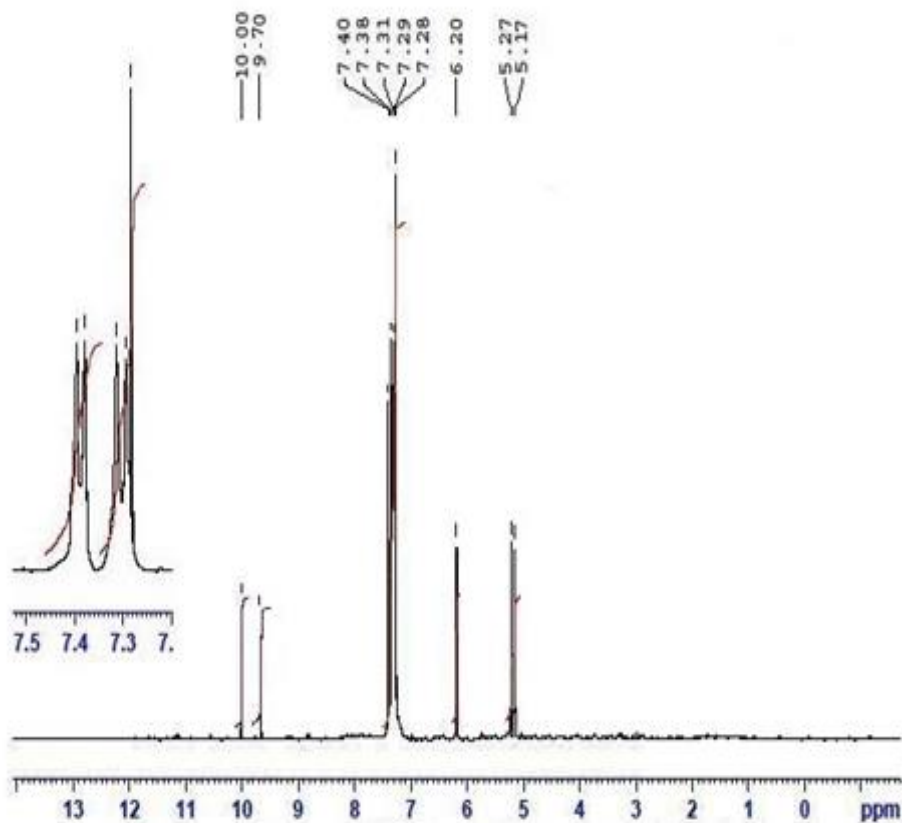


Figure S22: ¹H NMR Spectroscopy of Compound 5c



MA-5c
proton_su CDCl3 [c:\nmr-data] Student 12



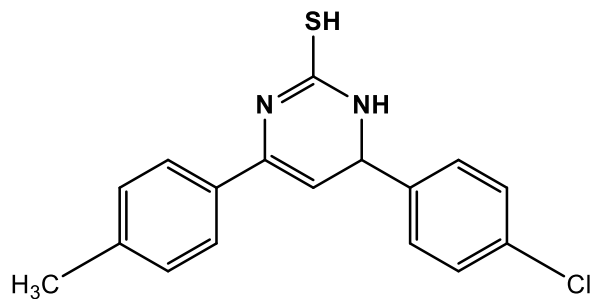
Current Data Parameters
NAME Jan12-2020
EXPNO 50
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200112
Time 11.47
INSTRUM spect
PROBHD 5 mm JASCO BR/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 190
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
RM 62.400 usec
DE 6.50 usec
TE 308.1 K
D1 1.00000000 sec
TD0 1

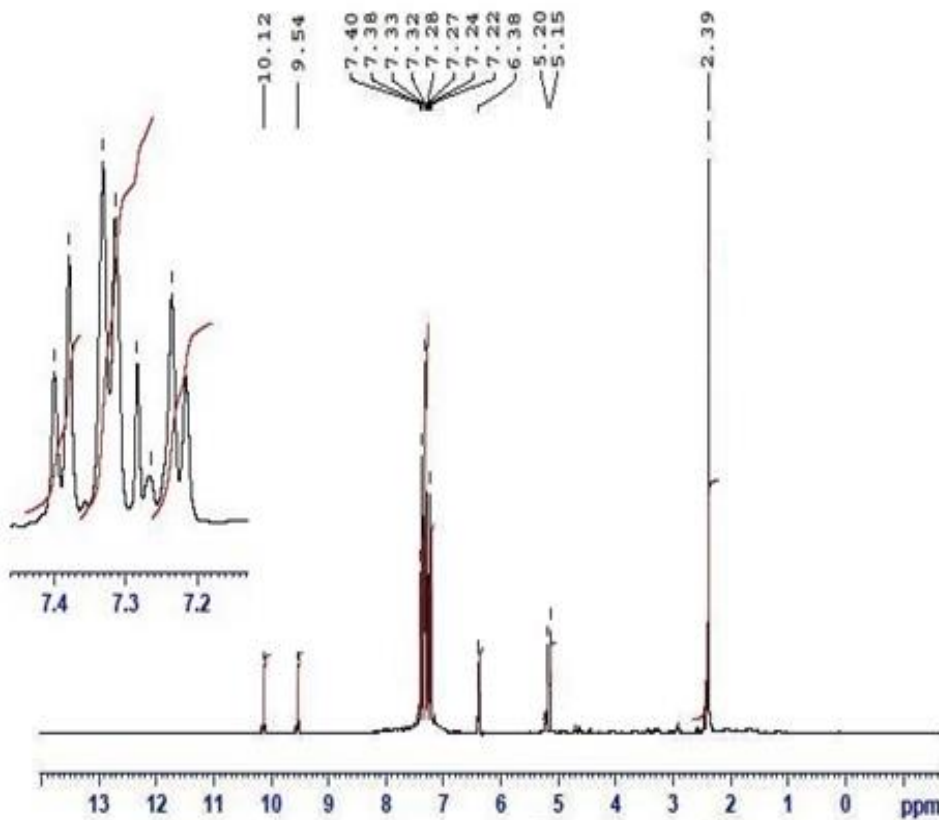
----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 12.00 usec
PLM1 22.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S23: ^1H NMR Spectroscopy of Compound **5d**



MA-54
proton_su CDCl3 [C:\nmr-data] Student 10



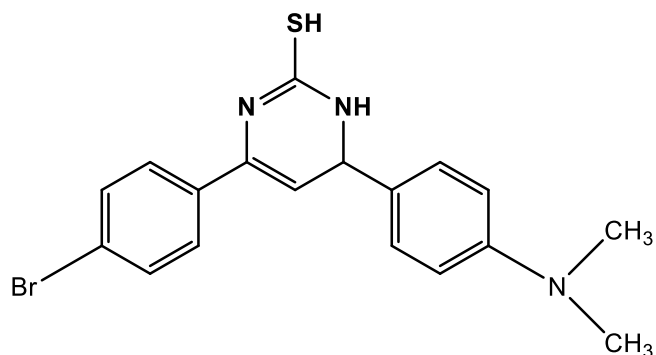
Current Data Parameters
NAME Jan12-2020
EXPNO 30
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200112
Time 11.23
INSTRUM spect
PROBHD 5 mm PABBO NH/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 100
DS 2
SWH 8012.820 Hz
FIDRES 0.122264 Hz
AQ 4.9894465 sec
RG 199.04
DW 62.400 usec
DE 6.50 usec
TE 308.2 K
D1 1.00000000 sec
TD0 1

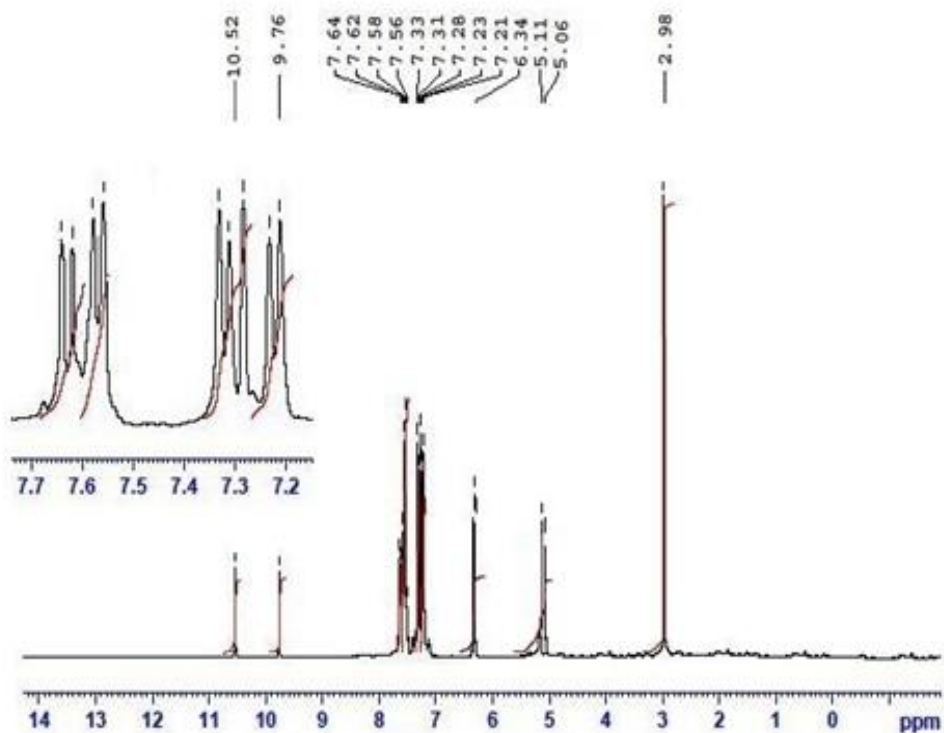
----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 12.00 usec
PLW1 22.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S24: ¹H NMR Spectroscopy of Compound 5e



MA-5e
proton_bu CDCl3 [C:\nmr-data] Student 14



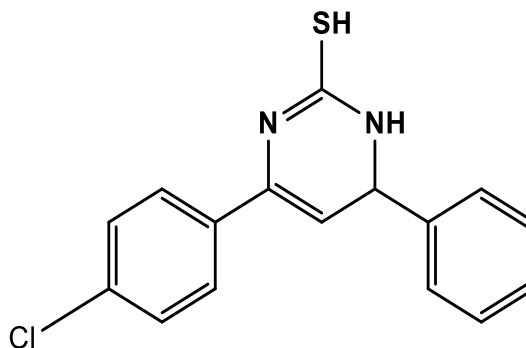
Current Data Parameters
NAME Jan17-2020
EXNO 70
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100112
Time 12.13
INSTRUM spect
PROBHD 5 mm PABBO BB
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 100
DS 2
SWH 8012.800 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
CW 62.400 usec
DE 6.50 usec
TE 308.2 K
D1 1.00000000 sec
TDC 1

----- CHANNEL f1 -----
SPOL 400.1324710 MHz
NUC1 1H
P1 12.00 usec
PLM1 22.00000000 M

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S25: ¹H NMR Spectroscopy of Compound 5f



MA-5f
proton_su CDCl3 (C:\nmr-data) Student 13

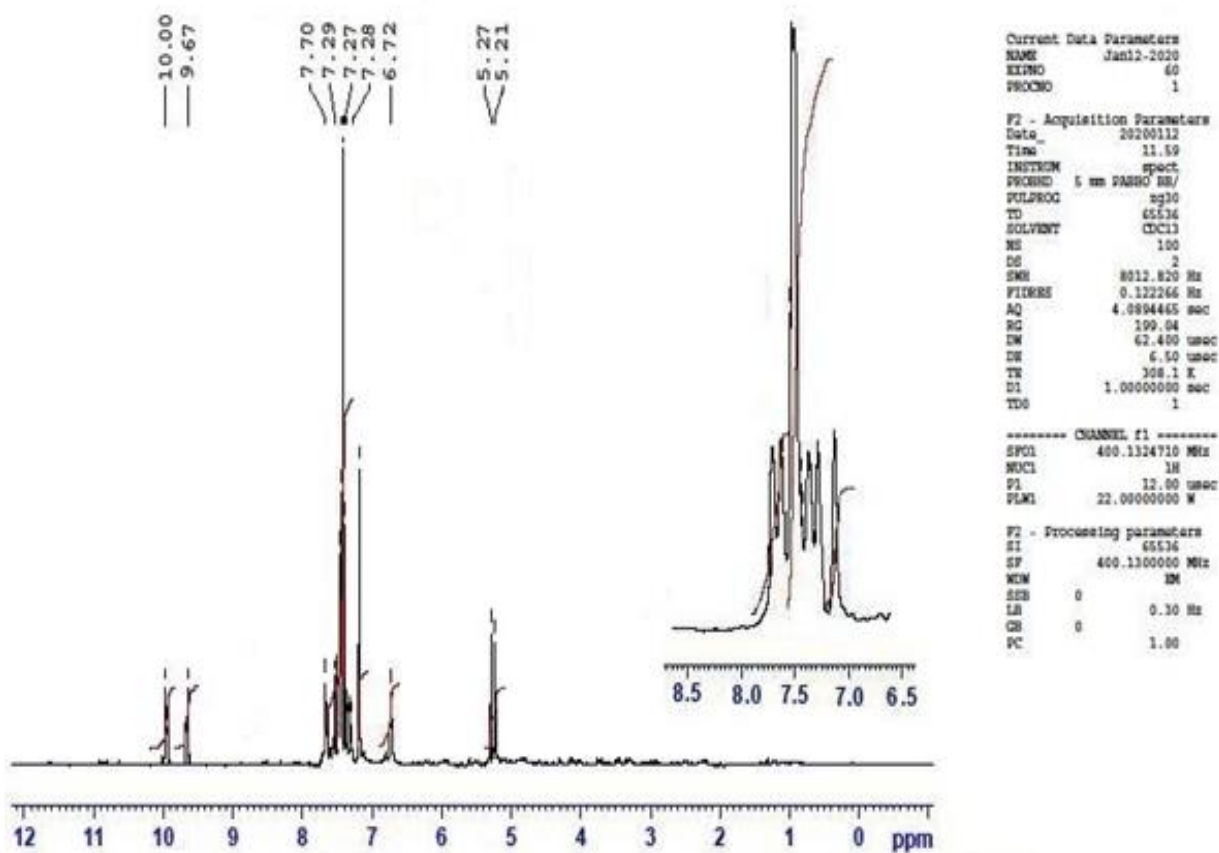
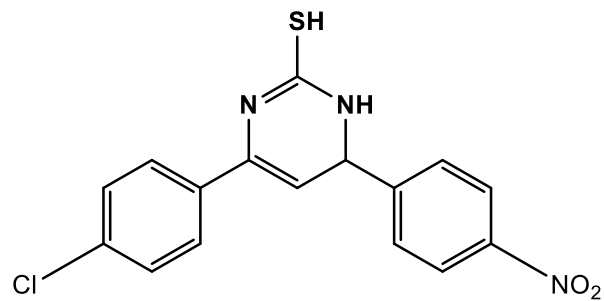


Figure S26: ¹H NMR Spectroscopy of Compound 5g



MA-5g
proton_su CDCl3 {C:\nmr-data} Student 17

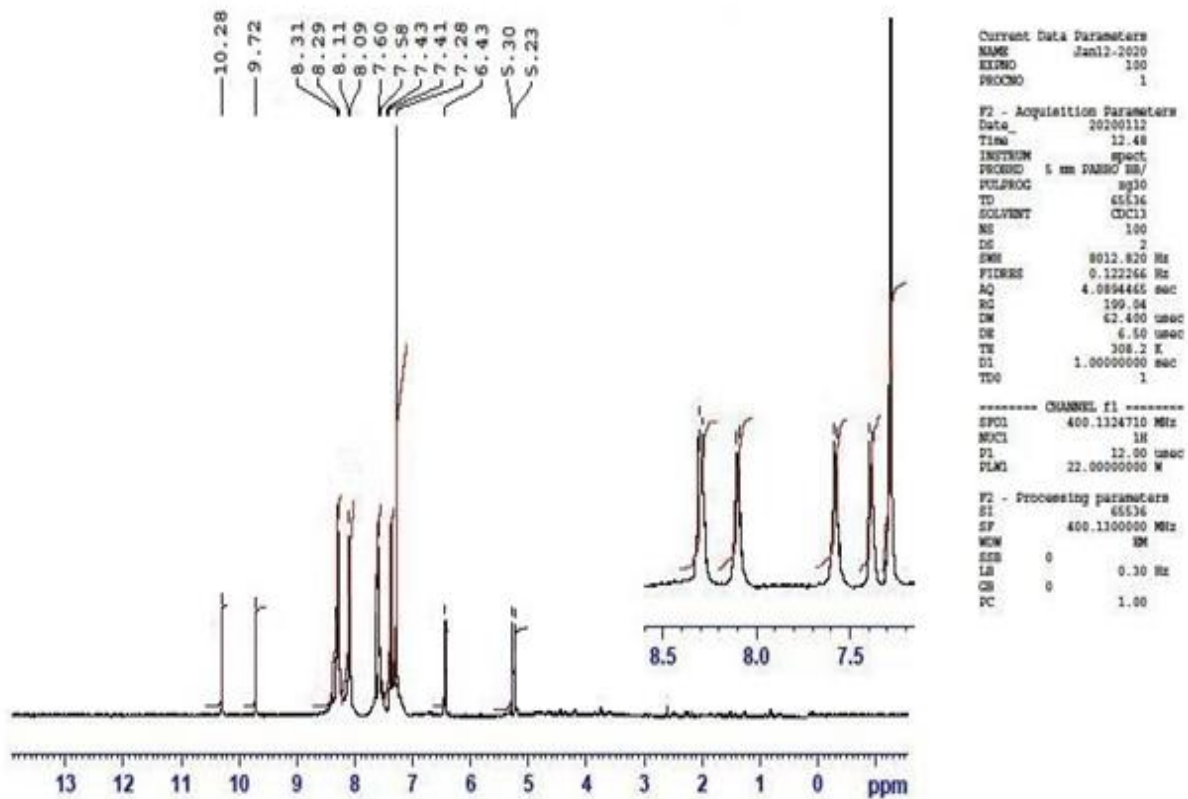


Figure S27: ¹H NMR Spectroscopy of Compound 5h

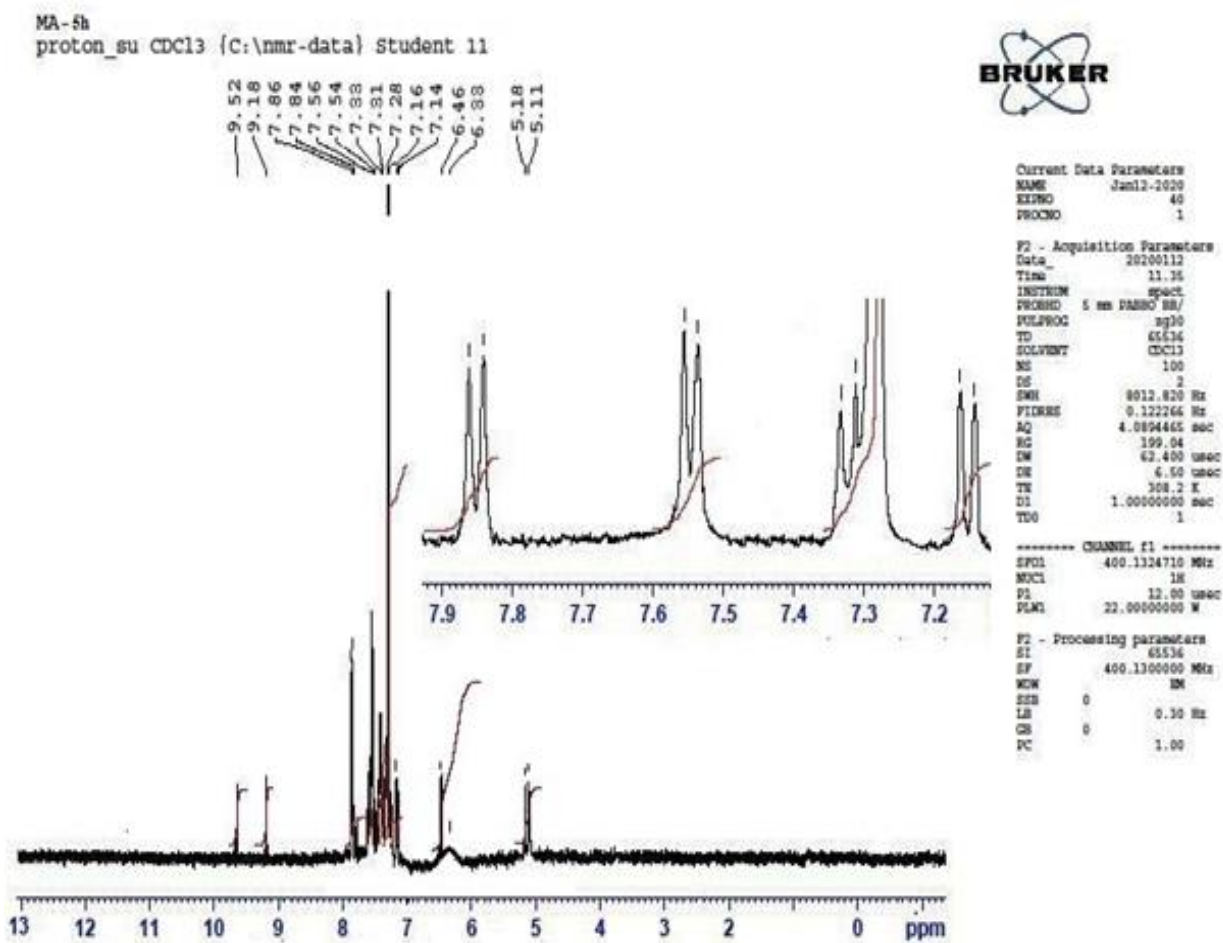
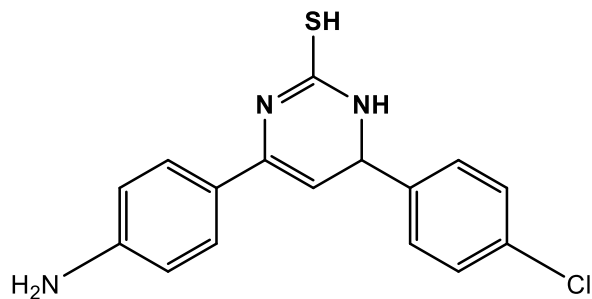
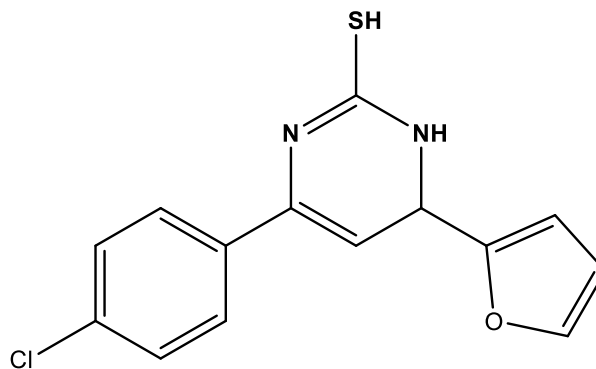


Figure S28: ¹H NMR Spectroscopy of Compound 5i



MA-5i
proton_su CDCl3 {C:\nmr-data} Student 16

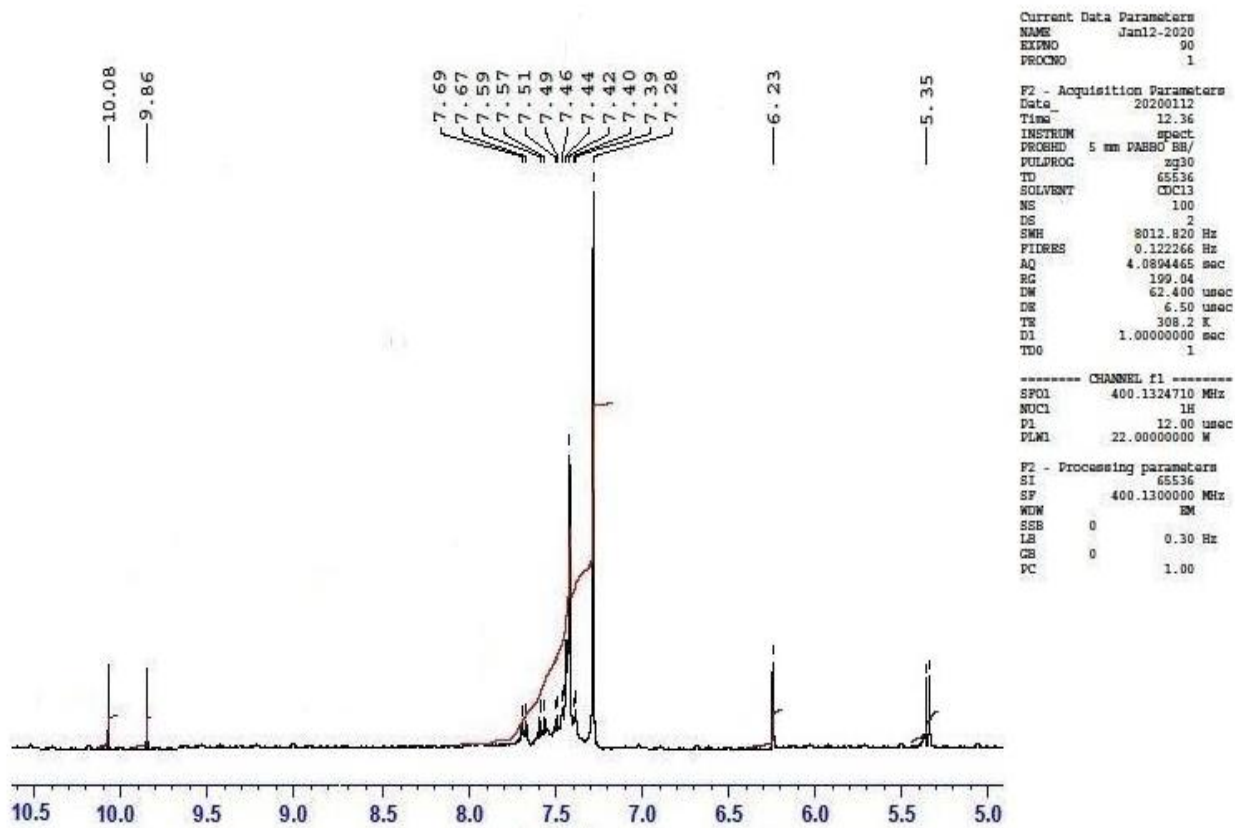
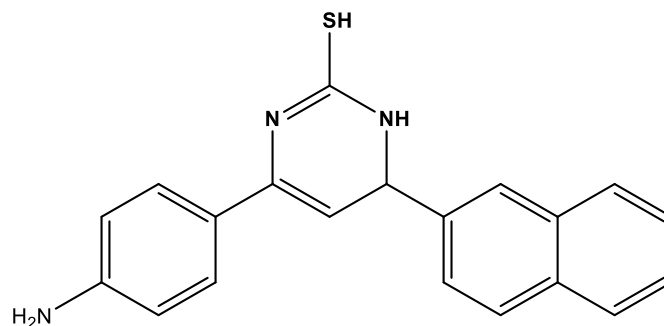
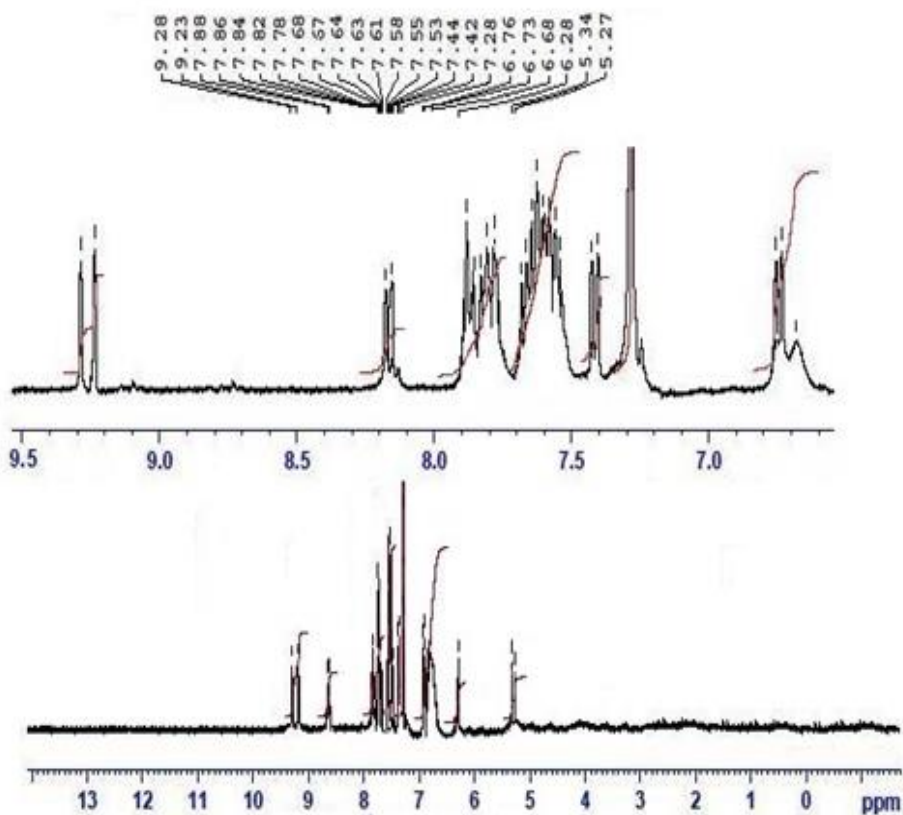


Figure S29: ^1H NMR Spectroscopy of Compound **5j**



MA- 5j
proton_su CDCl3 [C:\nmr-data] Student 9



Current Data Parameters
NAME Jan12-2020
EXTRNO 20
PROCNO 1

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Date_ 20200112
Time 11.11
INSTRUM spect
PROBHD 5 mm JNMBO SH/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 100
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
SM 62.400 usec
SE 6.50 usec
TE 308.2 K
SI 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SP01 400.1324710 MHz
NUC1 1H
P1 12.00 usec
PLM1 22.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
MEM 8M
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S30: ¹H NMR Spectroscopy of Compound 10a

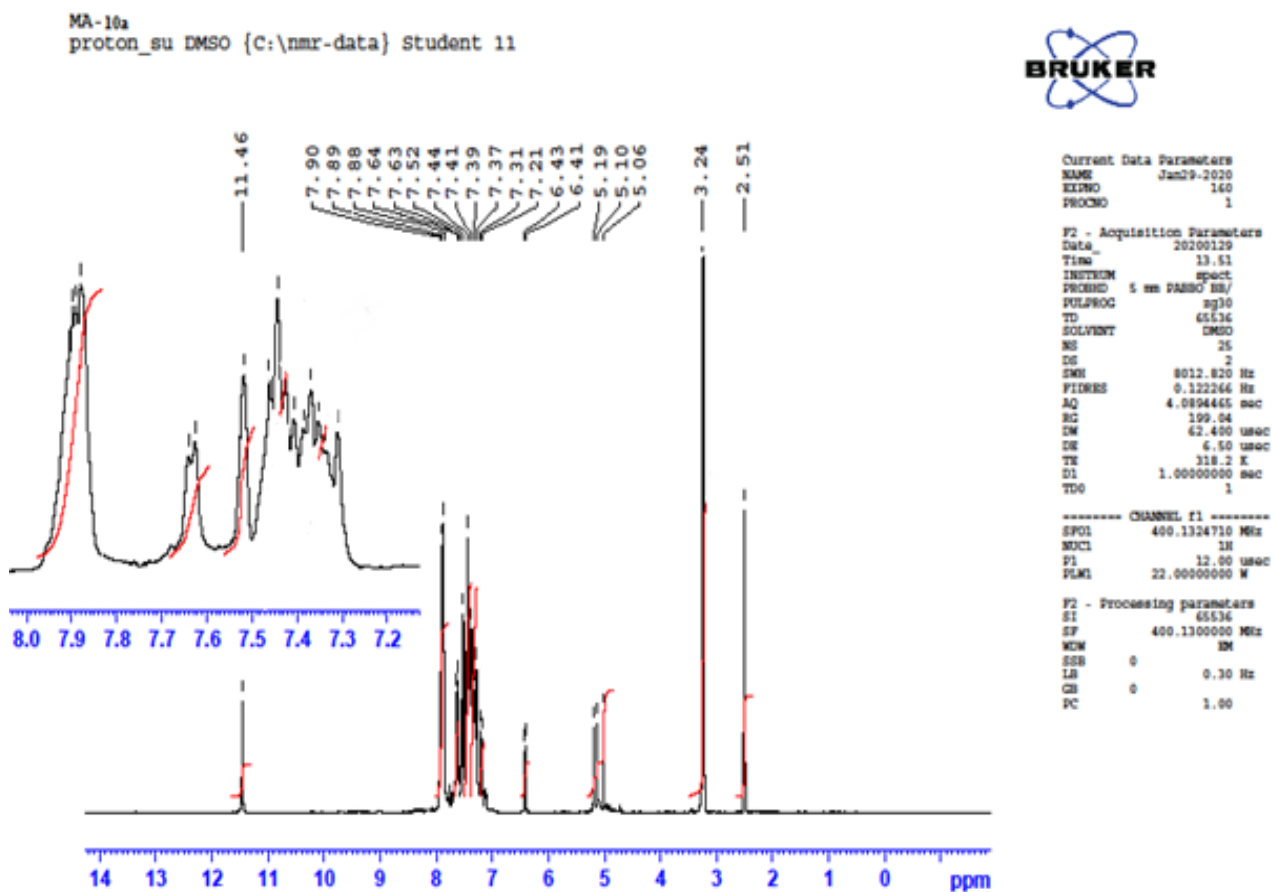
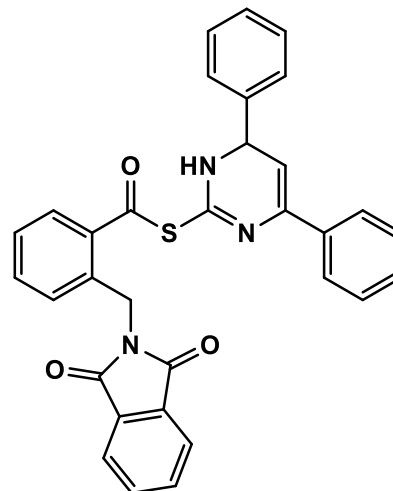
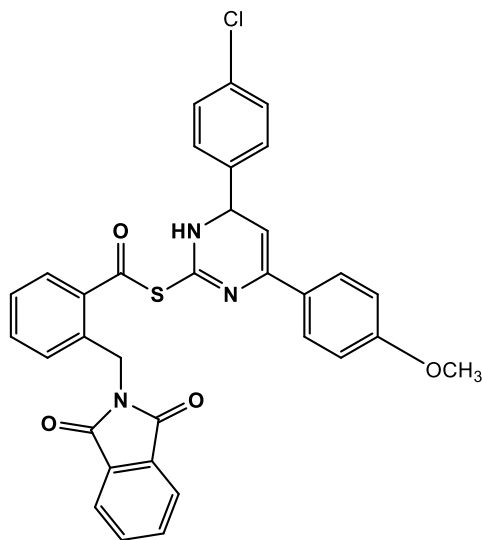
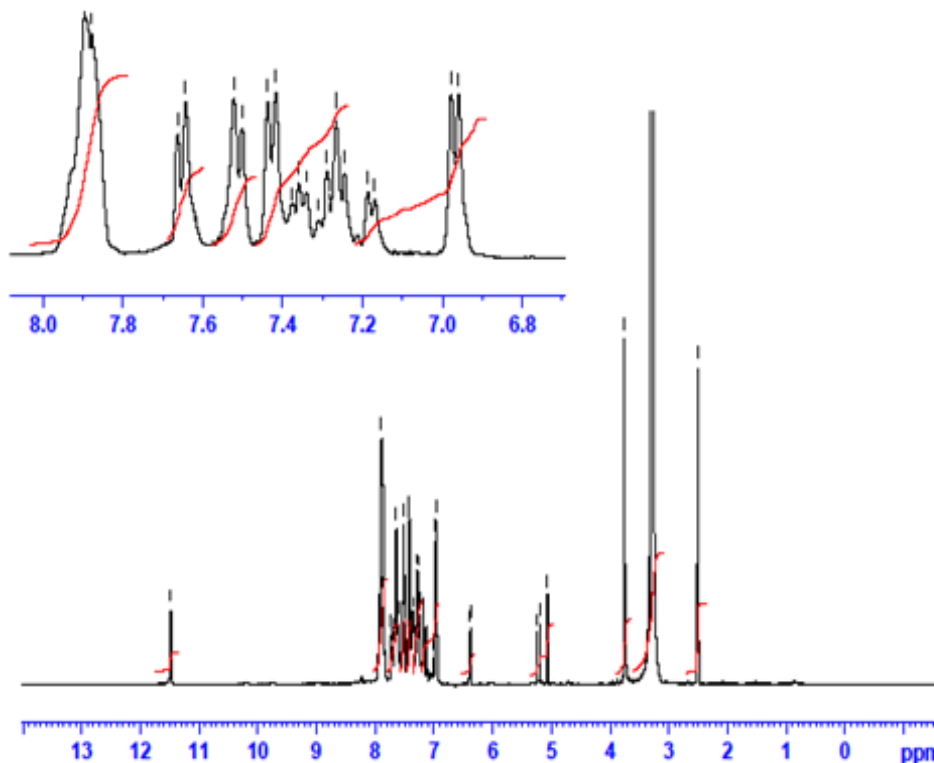


Figure S31: ^1H NMR Spectroscopy of Compound **10b**



MA- 10b
proton_su DMSO (C:\nmr-data) Student 12



```

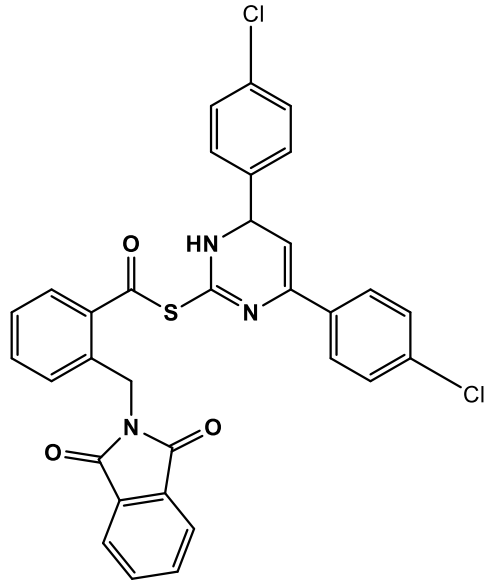
Current Data Parameters
NAME          Jan29-2020
EXPNO        170
PROCNO        1

F2 - Acquisition Parameters
Data_         20200129
Time_         13.56
INSTRUM       spect
PROBHD        5 mm PABBO BB/
PULPROG       zg30
TD            65536
SOLVENT       DMSO
NS            25
DS            2
SWH           8012.820 Hz
FIDRES       0.122264 Hz
AQ           4.0894465 sec
RG           120.97
DM           62.400 usec
DE           6.50 usec
TE           318.1 K
D1           1.0000000 sec
TDO          1

----- CHANNEL f1 -----
SFO1         400.1324710 MHz
NUC1          1H
P1           12.00 usec
PL1          22.0000000 W

F2 - Processing parameters
SI           65536
SF           400.1300000 MHz
WDW          RM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
    
```

Figure S32: ^1H NMR Spectroscopy of Compound **10c**



MA- 1k
proton_su DMSO (C:\nmr-data) Student 13

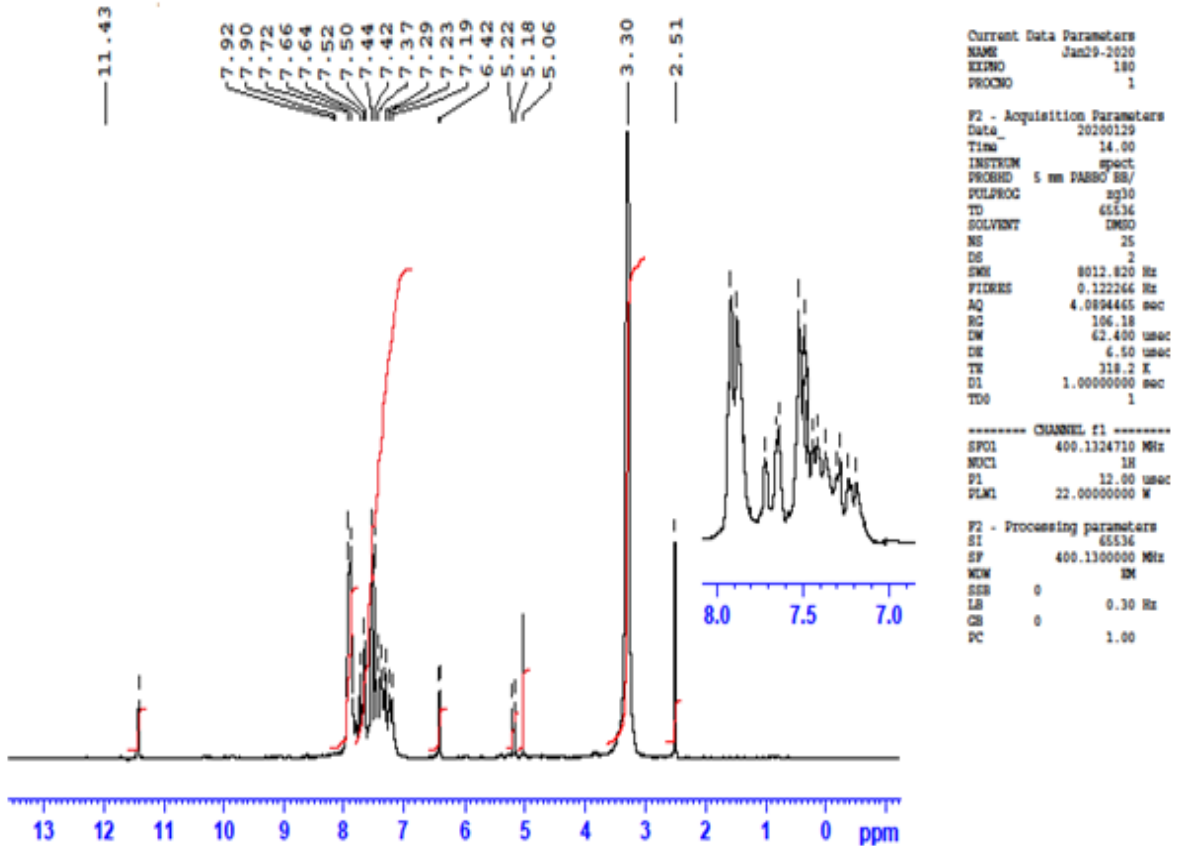
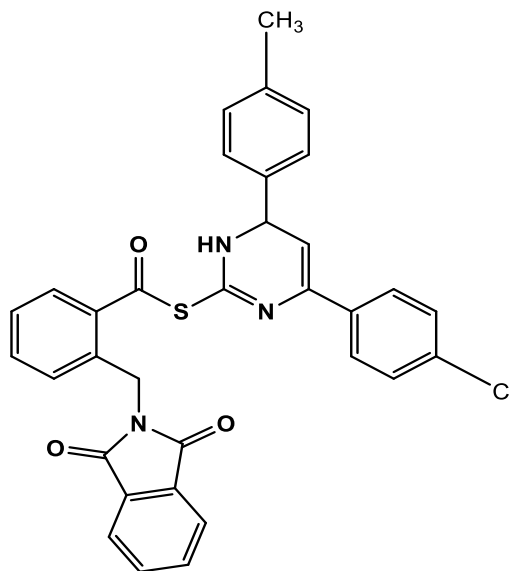
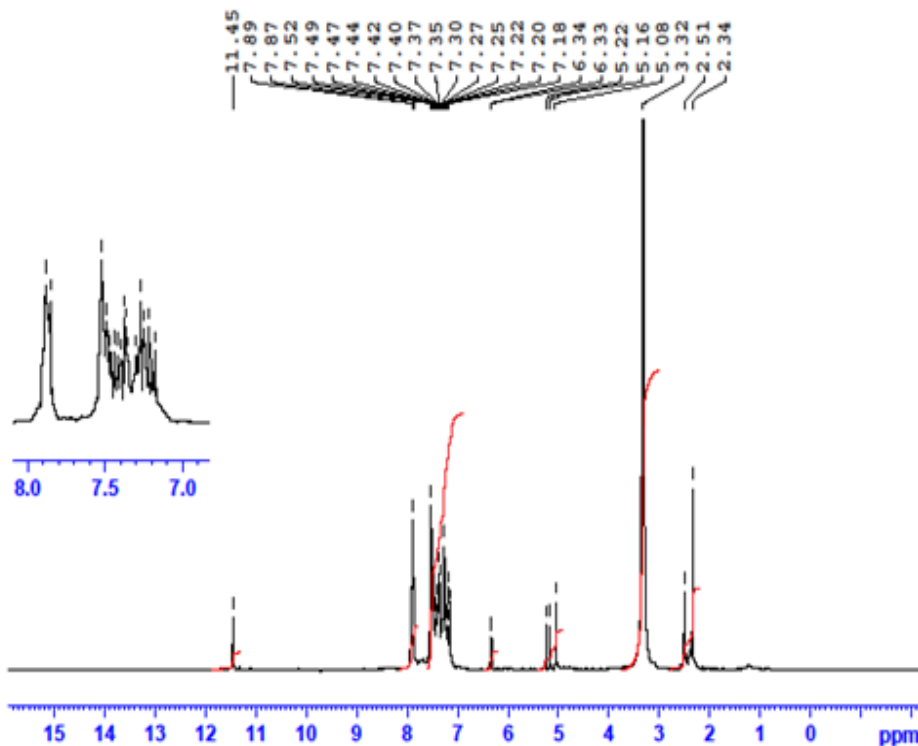


Figure S33: ¹H NMR Spectroscopy of Compound 10d



MA- 10d
proton_su DMSO {C:\nmr-data} Student 15



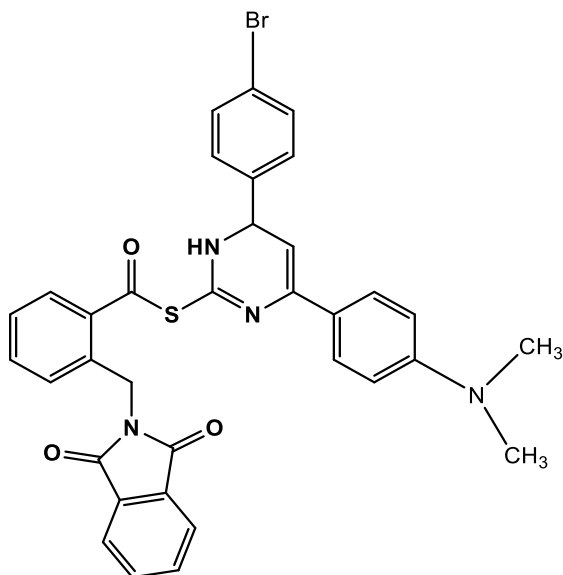
Current Data Parameters
NAME Jan29-2020
EXPRM 200
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200129
Time_ 14.10
INSTRM spect
PROBHD 5 mm PARBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 68.22
EW 62.400 usec
DE 6.50 usec
TE 318.1 K
D1 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 12.00 usec
PLM1 22.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S34: ¹H NMR Spectroscopy of Compound 10e



MA-10e
proton_su DMSO (C:\nmr-data) Student 16



```
Current Data Parameters
NAME      Jan19-2020
EXPNO     210
PROCNO    1

F2 - Acquisition Parameters
Date_     20200129
Time      14.15
INSTRUM   spect
PROBHD    5 mm DMSO-81/
PULPROG   zg30
TD         65536
SOLVENT   DMSO
NS         25
DS         2
SFO1      8012.820 Hz
FIDRES    0.122266 Hz
AQ         4.0894465 sec
RG         199.04
SWH        62.400 usec
DE         6.50 usec
TK         318.2 K
D1         1.00000000 sec
TD0        1

----- CHANNEL f1 -----
SFO1      400.1324710 MHz
NUC1       1H
P1         12.00 usec
PLA1       22.00000000 W

F2 - Processing parameters
SI         65536
SF         400.1300000 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
```

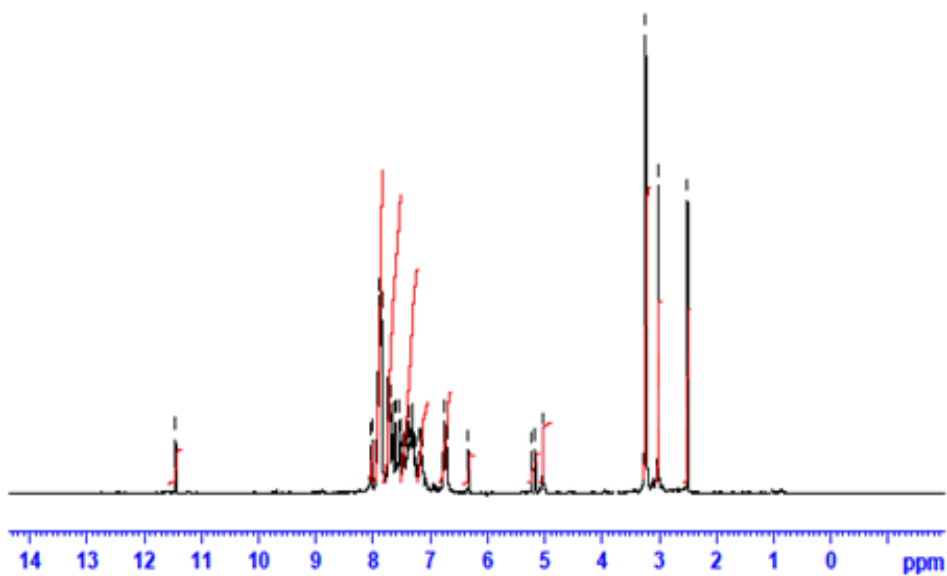
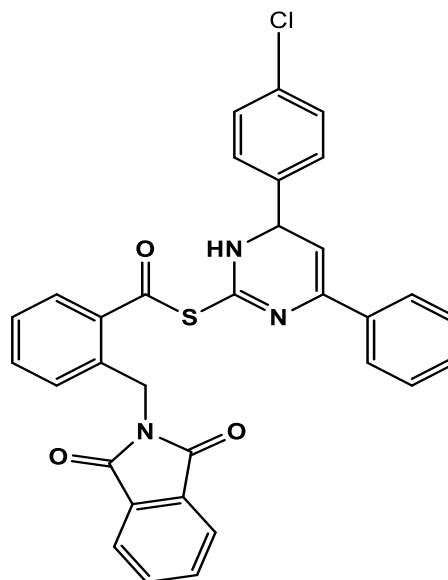


Figure S35: ¹H NMR Spectroscopy of Compound 10f



MA-10f
proton_su DMSO (C:\nmr-data) Student 17

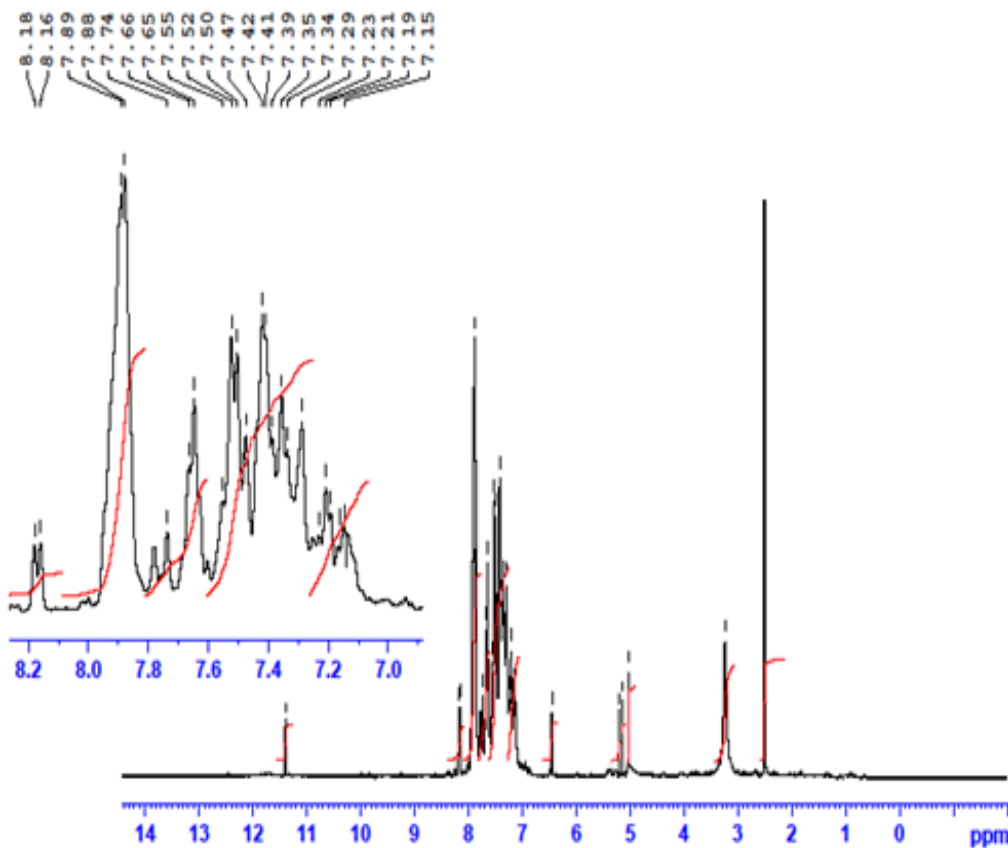
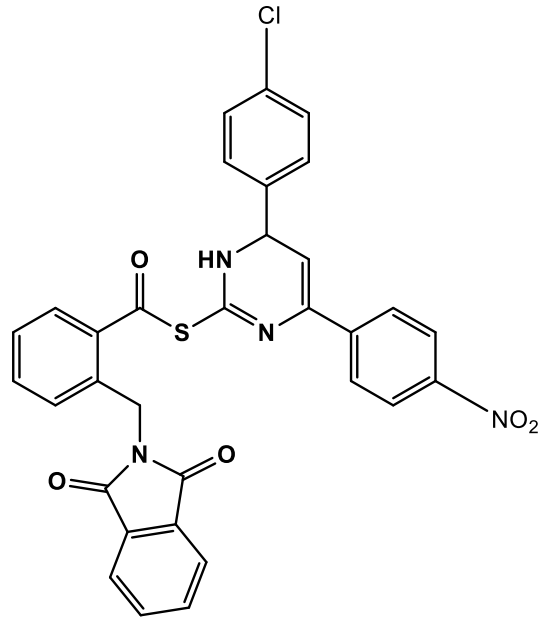
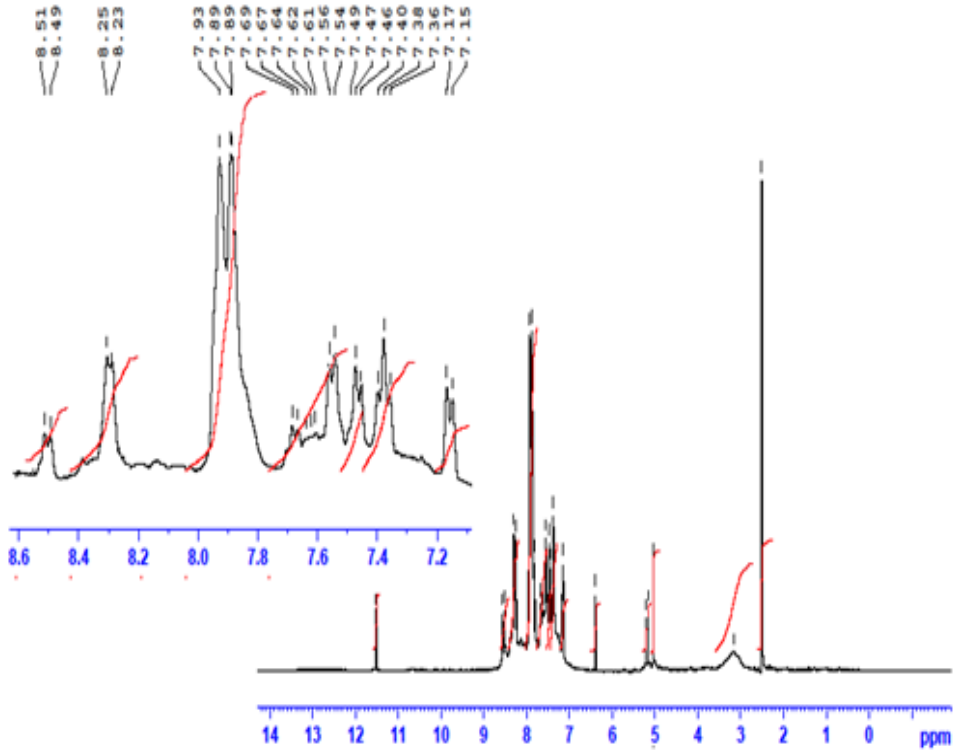


Figure S36: ^1H NMR Spectroscopy of Compound **10g**



MA-10g
proton_su DMSO (C:\nmr-data) Student 18



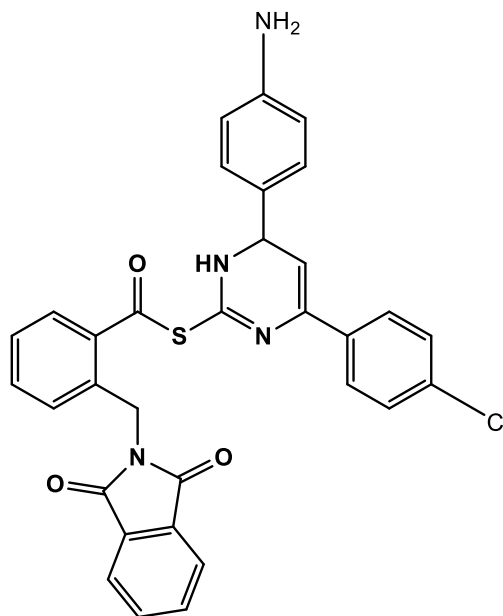
Current Data Parameters
NAME Jan19-2020
EXNO 230
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200129
Time 14.25
INSTRUM spect
PROBHD 5 mm F400/ BBO
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
EMV 8612.820 Hz
FIDRES 0.122264 Hz
AQ 4.989465 sec
RG 199.24
SW 62.400 usec
DE 6.50 usec
TE 318.1 K
D1 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 12.00 usec
PLM1 22.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S37: ¹H NMR Spectroscopy of Compound 10h



MA-10h
proton_su DMSO {C:\nmr-data} student 19

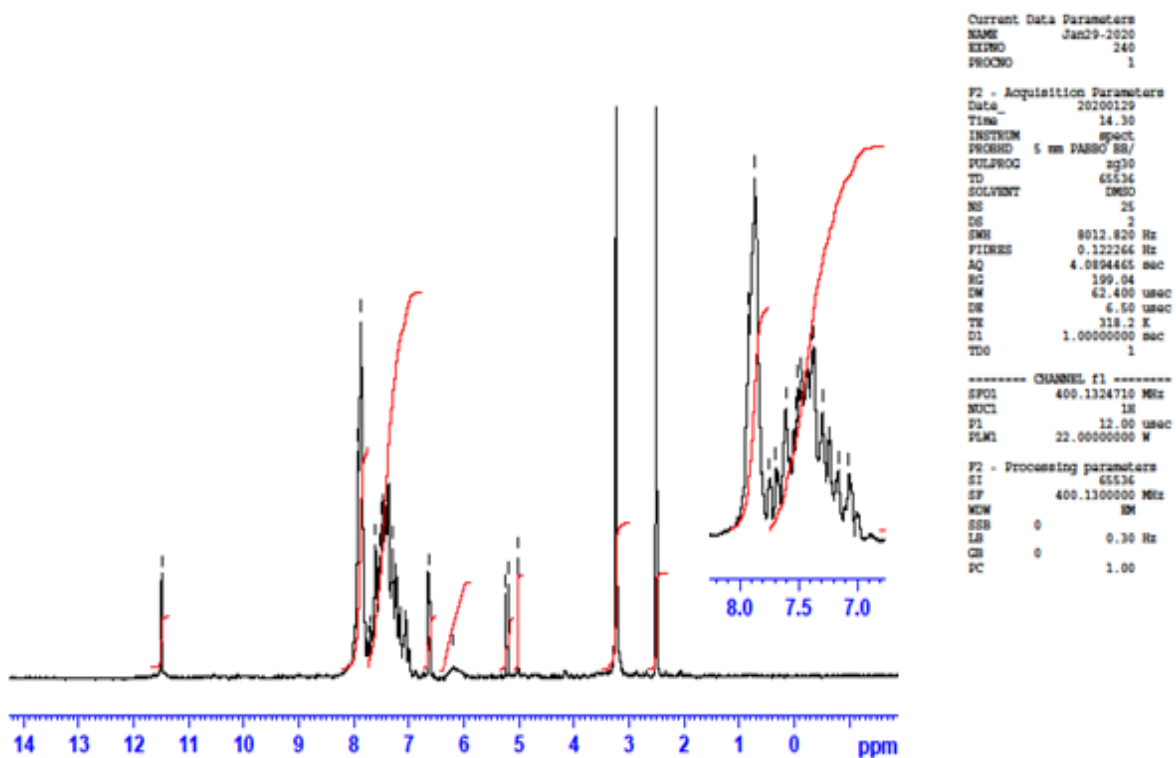
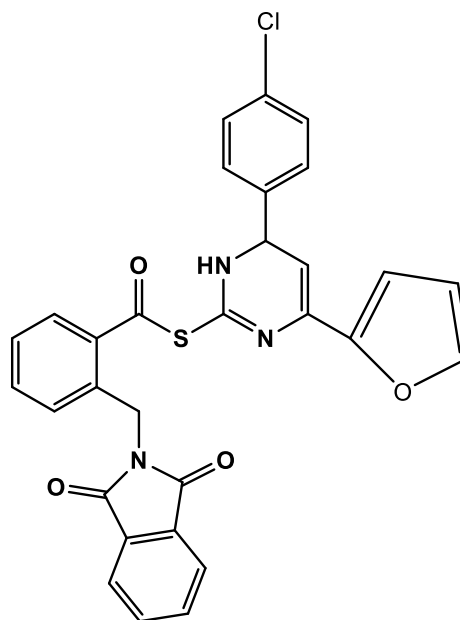
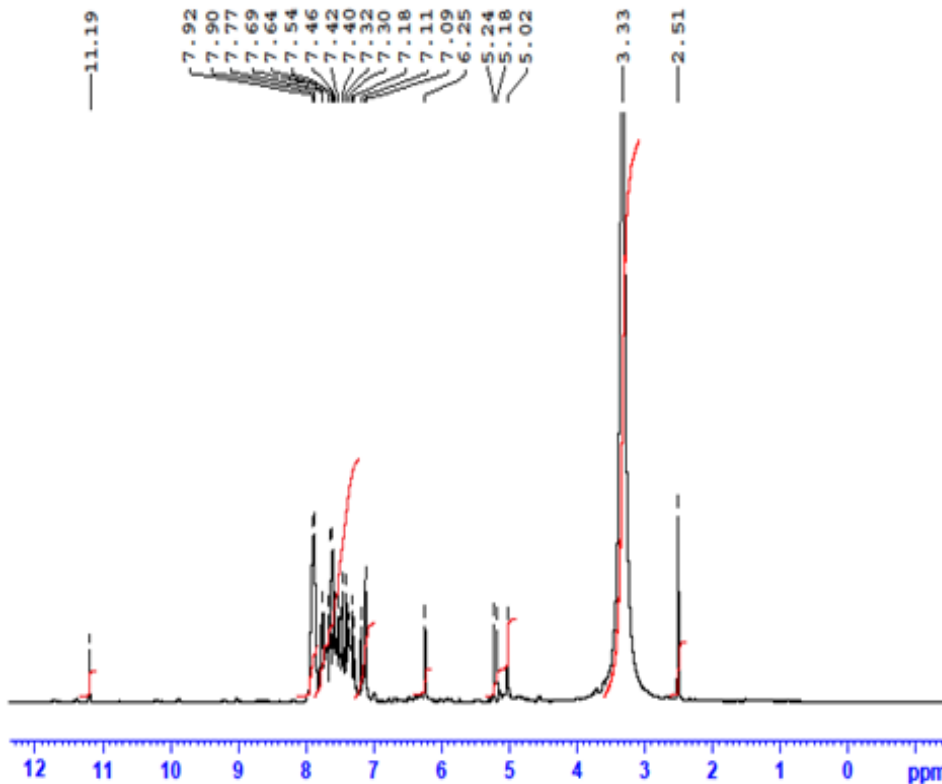


Figure S38: ^1H NMR Spectroscopy of Compound **10i**



MA-10i
proton_su DMSO (C:\nmr-data) Student 14



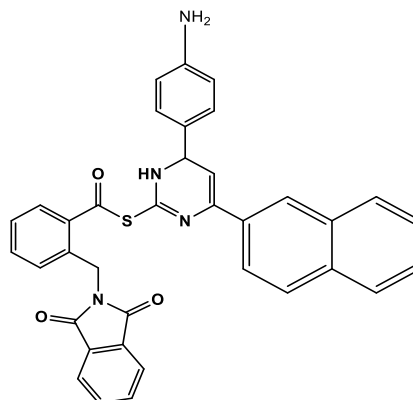
Current Data Parameters
NAME Jan29-2020
EXPNO 190
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200129
Time 14.05
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
SWH 8012.820 Hz
FIDRES 0.122264 Hz
AQ 4.9894465 sec
RG 106.18
DM 62.400 usec
DE 6.50 usec
TE 318.2 K
D1 1.00000000 sec
TD0 1

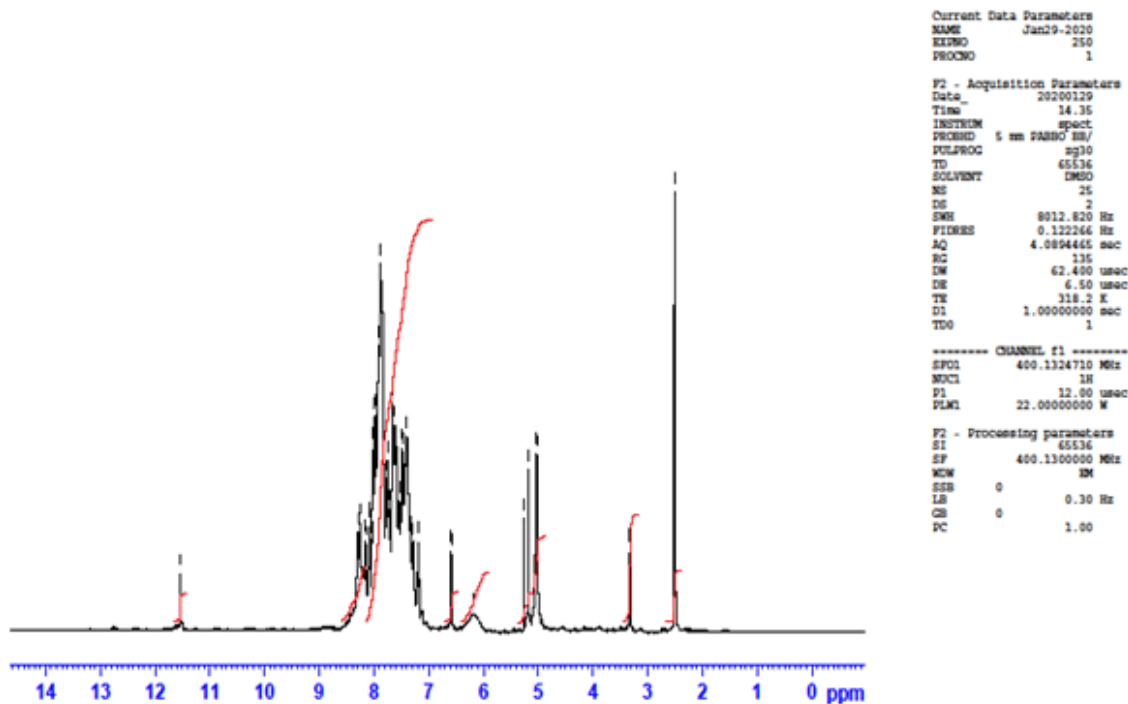
***** CHANNEL f1 *****
SFO1 400.1324710 MHz
NUC1 1H
P1 12.00 usec
PLM1 22.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW HM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S39: ¹H NMR Spectroscopy of Compound 10j

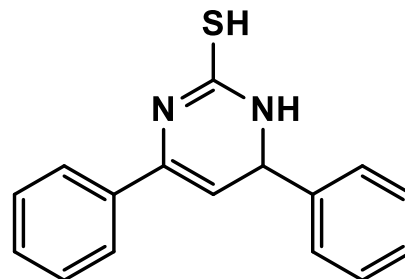


MA-10j
proton_su DMSO {C:\nmr-data} Student 20

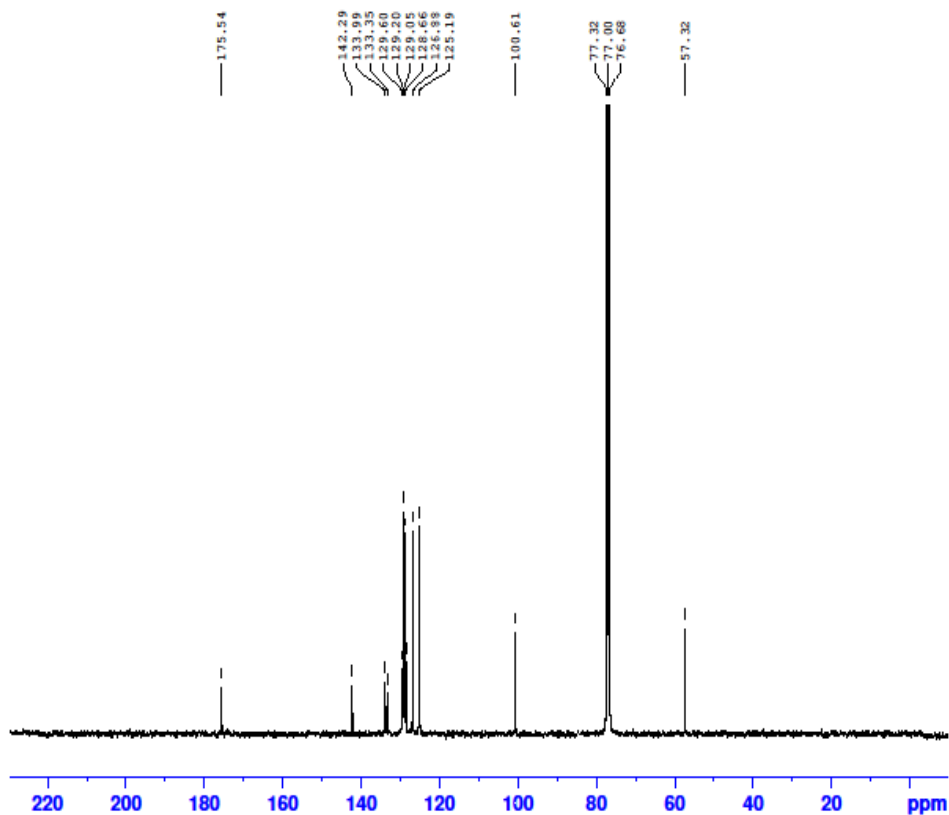


¹³C NMR Spectroscopy

Figure S40: ¹³C NMR Spectroscopy of Compound 5a



MA- 5a
c13_su CDC13 (C:\nmr-data) Student 23



Current Data Parameters
NAME Jan27-2020
EXPNO 40
PROCNO 1

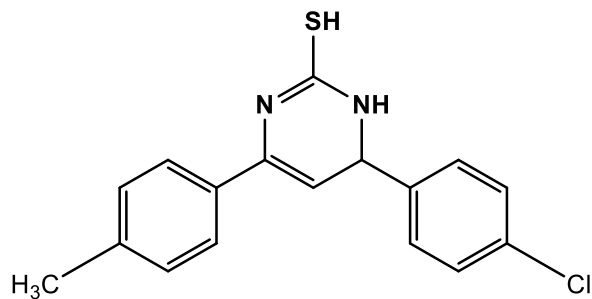
F2 - Acquisition Parameters
Date_ 20200128
Time 4.48
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 3200
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 s
RG 100.43
DW 20.800 us
DE 6.50 us
TE 308.2 K
D1 2.00000000 s
D11 0.03000000 s
TD0 1

==== CHANNEL f1 ====
SFO1 100.6238364 MHz
NUC1 13C
P1 9.50 us
PLW1 56.00000000 W

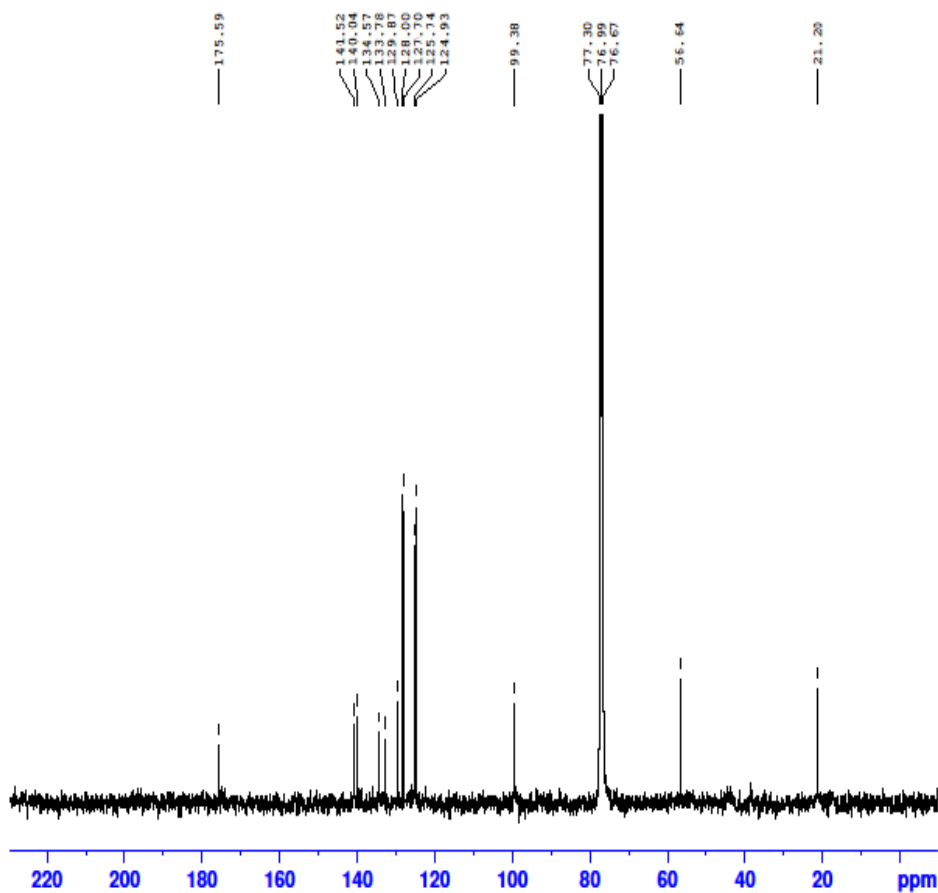
==== CHANNEL f2 ====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 us
PLW2 22.00000000 W
PLW12 0.41091001 W
PLW13 0.33284000 W

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 6.00 Hz
GB 0
PC 1.40

Figure S41: ^{13}C NMR Spectroscopy of Compound **5d**



MA- 5d
c13_su CDC13 (C:\nmr-data) Student 20



Current Data Parameters
NAME Jan27-2020
EXPNO 10
PROCNO 1

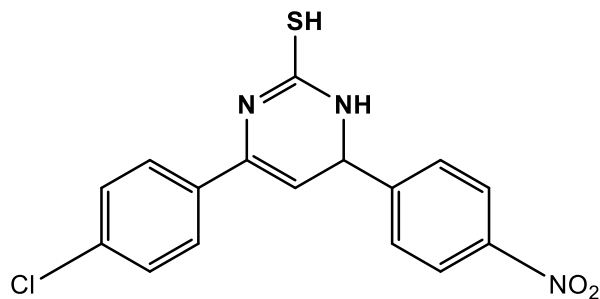
F2 - Acquisition Parameters
Date_ 20200127
Time 19.27
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 3200
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 s
RG 100.43
DW 20.800 s
DE 6.50 s
TE 308.2 K
D1 2.00000000 s
D11 0.03000000 s
TD0 1

==== CHANNEL f1 ====
SFO1 100.6238364 MHz
NUC1 13C
P1 9.50 s
PLW1 56.00000000 W

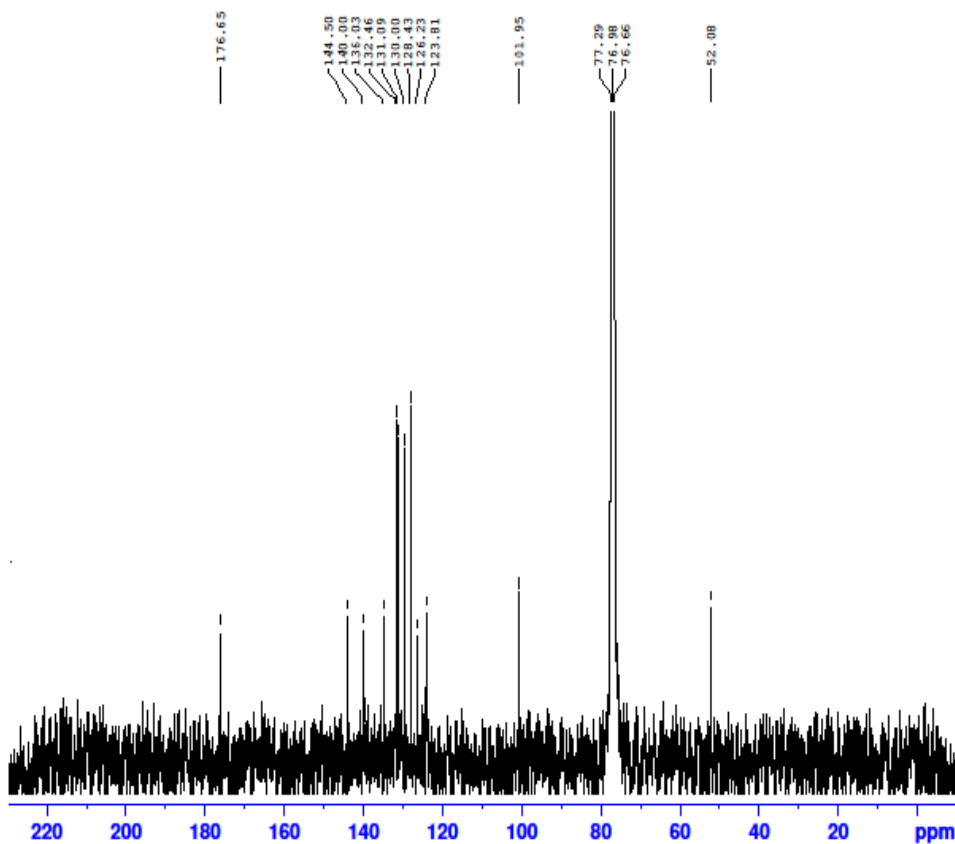
==== CHANNEL f2 ====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 s
PLW2 22.00000000 W
PLW12 0.41091001 W
PLW13 0.33284000 W

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 6.00 Hz
GB 0
PC 1.40

Figure S42: ^{13}C NMR Spectroscopy of Compound 5g



MA- 5g
c13_su CDC13 (C:\nmr-data) Student 21



Current Data Parameters
NAME Jan27-2020
EXPNO 20
PROCNO 1

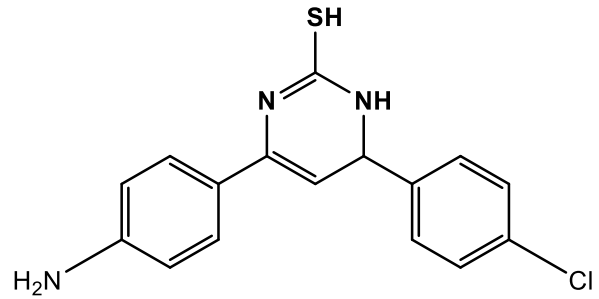
F2 - Acquisition Parameters
Date_ 20200127
Time 22.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 3200
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 s
RG 100.43
DW 20.800 us
DE 6.50 us
TE 308.1 K
D1 2.00000000 s
D11 0.03000000 s
TD0 1

==== CHANNEL f1 ====
SFO1 100.6238364 MHz
NUC1 13C
P1 9.50 us
PLW1 56.00000000 W

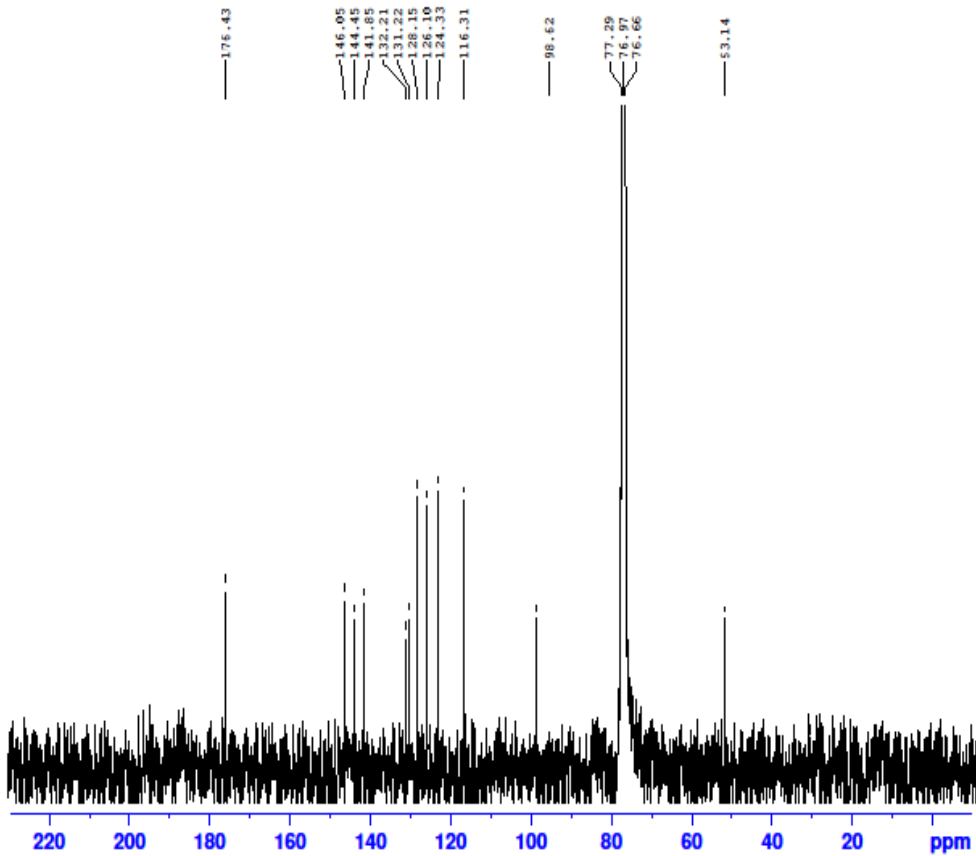
==== CHANNEL f2 ====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 us
PLW2 22.00000000 W
PLW12 0.41091001 W
PLW13 0.33284000 W

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 6.00 Hz
GB 0
PC 1.40

Figure S43: ^{13}C NMR Spectroscopy of Compound **5h**



MA-5h
c13_su CDCl3 (C:\nmr-data) Student 22



Current Data Parameters
NAME Jan27-2020
EXPNO 30
PROCNO 1

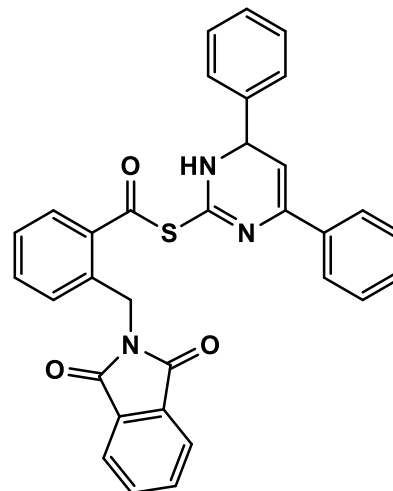
F2 - Acquisition Parameters
Date_ 20200128
Time 1.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 3200
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 s
RG 100.43
DW 20.800 s
DE 6.50 s
TE 308.1 K
D1 2.00000000 s
D11 0.03000000 s
TD0 1

==== CHANNEL f1 ====
SFO1 100.6238364 MHz
NUC1 13C
P1 9.50 s
PLW1 56.00000000 W

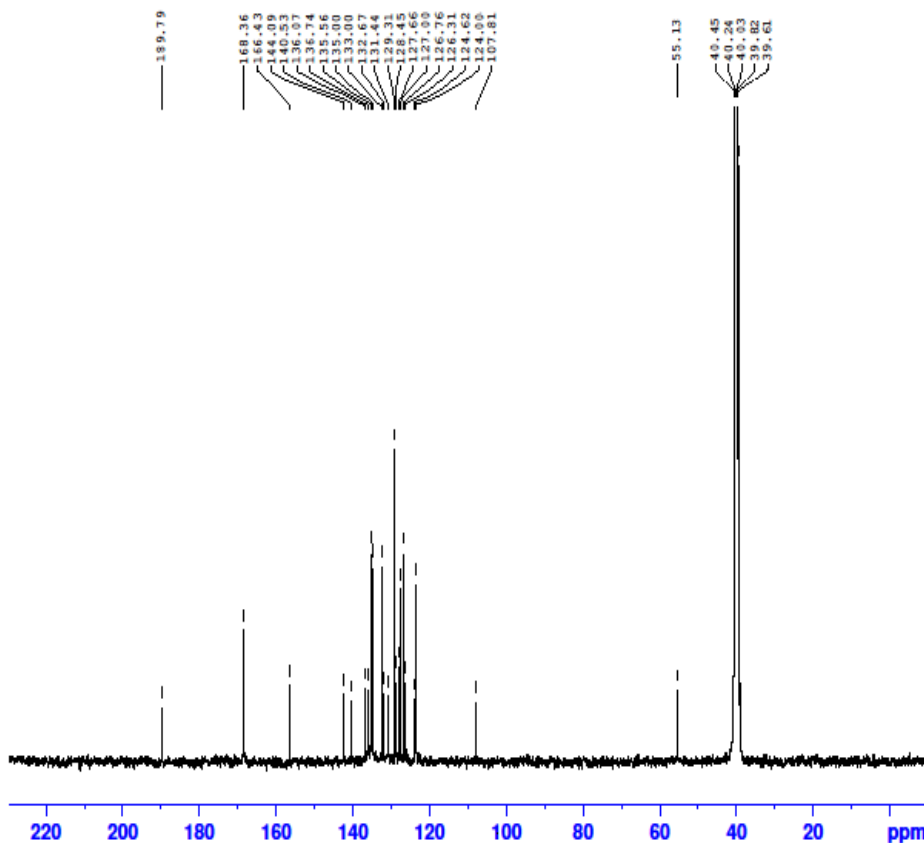
==== CHANNEL f2 ====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 s
PLW2 22.00000000 W
PLW12 0.41091001 W
PLW13 0.33284000 W

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 6.00 Hz
GB 0
PC 1.40

Figure S44: ^{13}C NMR Spectroscopy of Compound **10a**



MA-10a
c13_su DMSO (C:\nmr-data) Student 14



Current Data Parameters
NAME Feb13-2020
EXPNO 190
PROCNO 1

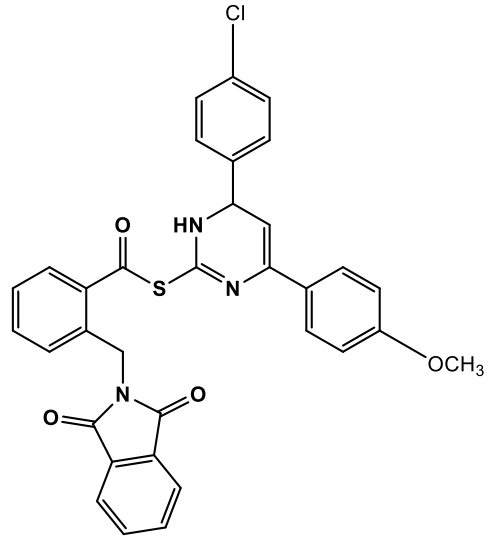
F2 - Acquisition Parameters
Date_ 20200216
Time 3.14
INSTRUM spect
PROBHD 5 mm FAPBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 3200
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 s
RG 100.43
DW 20.800 s
DE 6.50 s
TE 308.2 K
D1 2.00000000 s
D11 0.03000000 s
TD0 1

==== CHANNEL F1 ====
SFO1 100.6238364 MHz
NUC1 13C
P1 9.50 s
PLW1 56.00000000 W

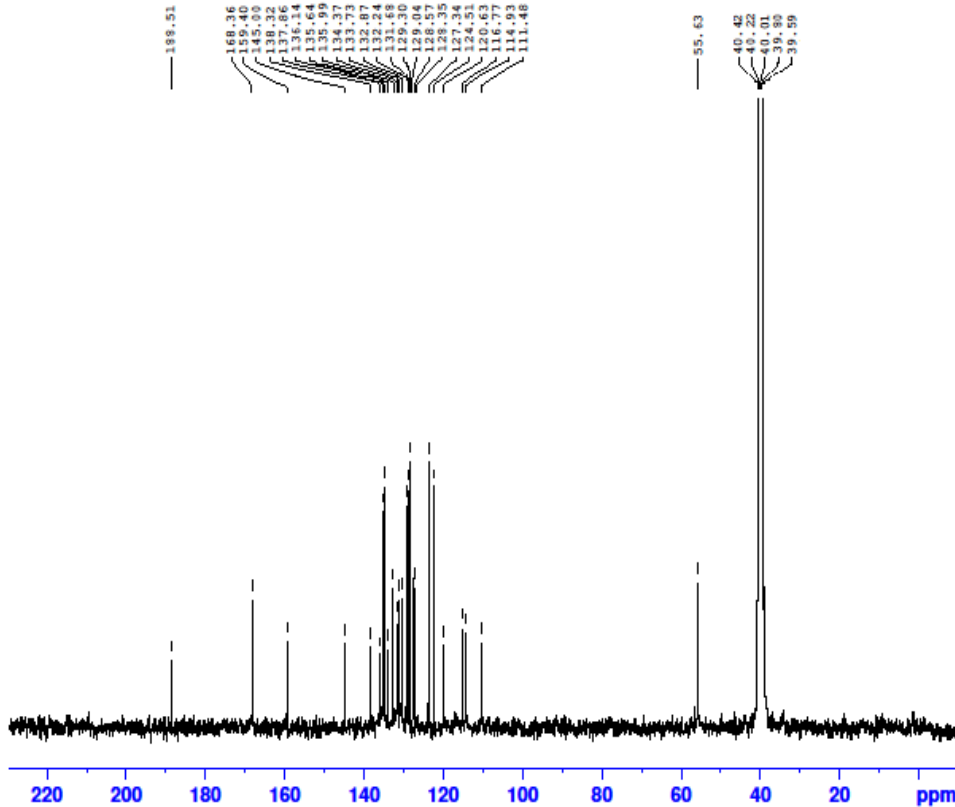
==== CHANNEL F2 ====
SFO2 400.1316005 MHz
NUC2 1H
CPCPRG2 waltz16
PCPD2 90.00 s
PLW2 22.00000000 W
PLW12 0.41091001 W
PLW13 0.33284000 W

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WEW EM
SSB 0
LB 6.00 Hz
GB 0
PC 1.40

Figure S45: ¹³C NMR Spectroscopy of Compound 10b



MA-10b
c13_su DMSO (C:\nmr-data) Student 13



Current Data Parameters
NAME Feb13-2020
EXPNO 180
PROCNO 1

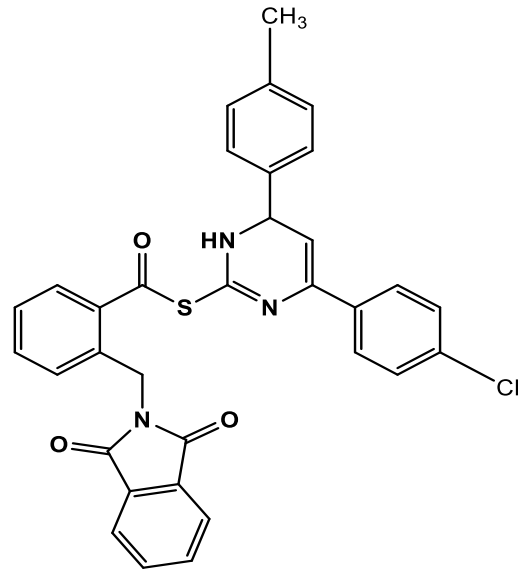
F2 - Acquisition Parameters
Date_ 20200216
Time 0.08
INSTRUM spect
PROBHD 5 mm FAPBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 3200
DS 4
SWH 24038.461 :
FIDRES 0.366798 :
AQ 1.3631488 :
RG 100.43
DW 20.800 :
DE 6.50 :
TE 308.2 :
D1 2.00000000 :
D11 0.03000000 :
TD0 1

==== CHANNEL f1 ====
SFO1 100.6238364 :
NUC1 13C
P1 9.50 :
PLW1 56.00000000 :

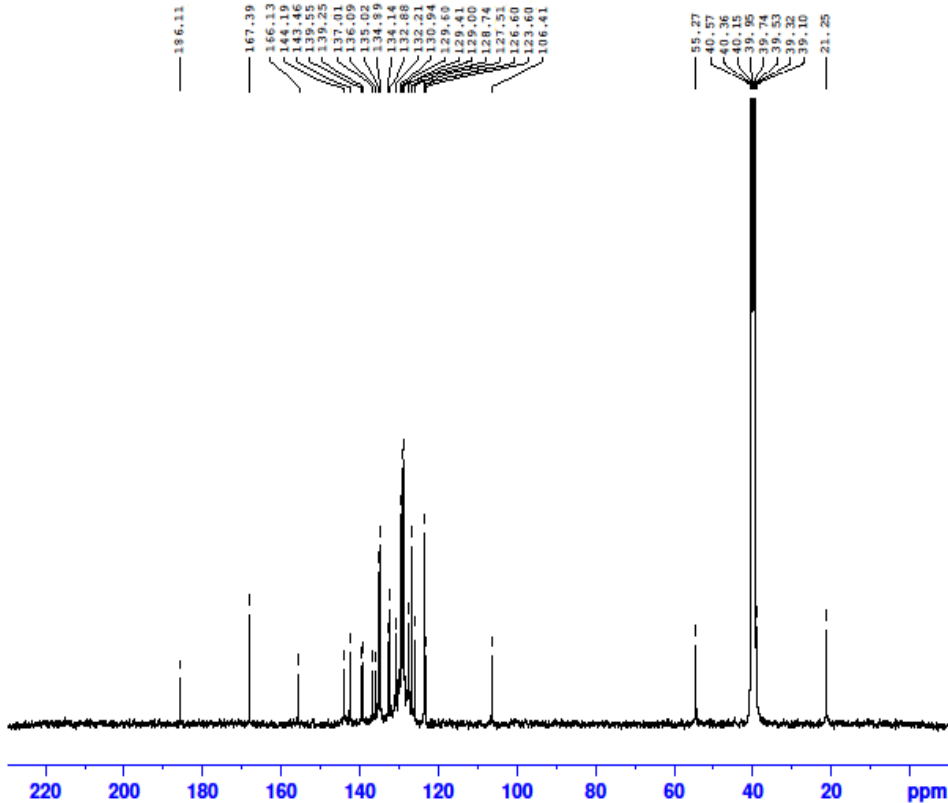
==== CHANNEL f2 ====
SFO2 400.1316005 :
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 :
PLW2 22.00000000 :
PLW12 0.41091001 :
PLW13 0.33284000 :
PLW13

F2 - Processing parameters
SI 32768
SF 100.6127690 :
WVW EM
SFB 0
LB 6.00 :
GB 0
PC 1.40

Figure S46: ^{13}C NMR Spectroscopy of Compound 10d



MA- 10d
c13_su DMSO (C:\nmr-data) Student 12



Current Data Parameters
NAME Feb13-2020
EXPNO 170
PROCNO 1

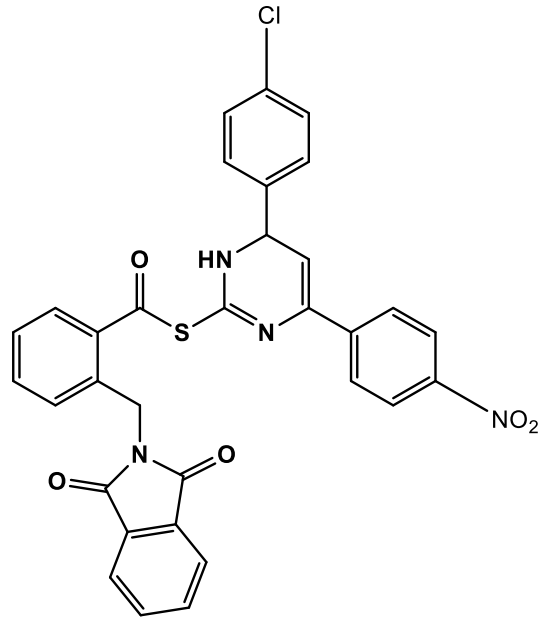
F2 - Acquisition Parameters
Date_ 20200215
Time 21.03
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 3200
DS 4
SWH 24038.461
FIDRES 0.366798
AQ 1.3631488
RG 100.43
DW 20.800
DE 6.50
TE 308.1
D1 2.0000000
D11 0.0300000
TD0 1

==== CHANNEL f1 ====
SFO1 100.6238364
NUC1 ^{13}C
P1 9.50
PLW1 56.0000000

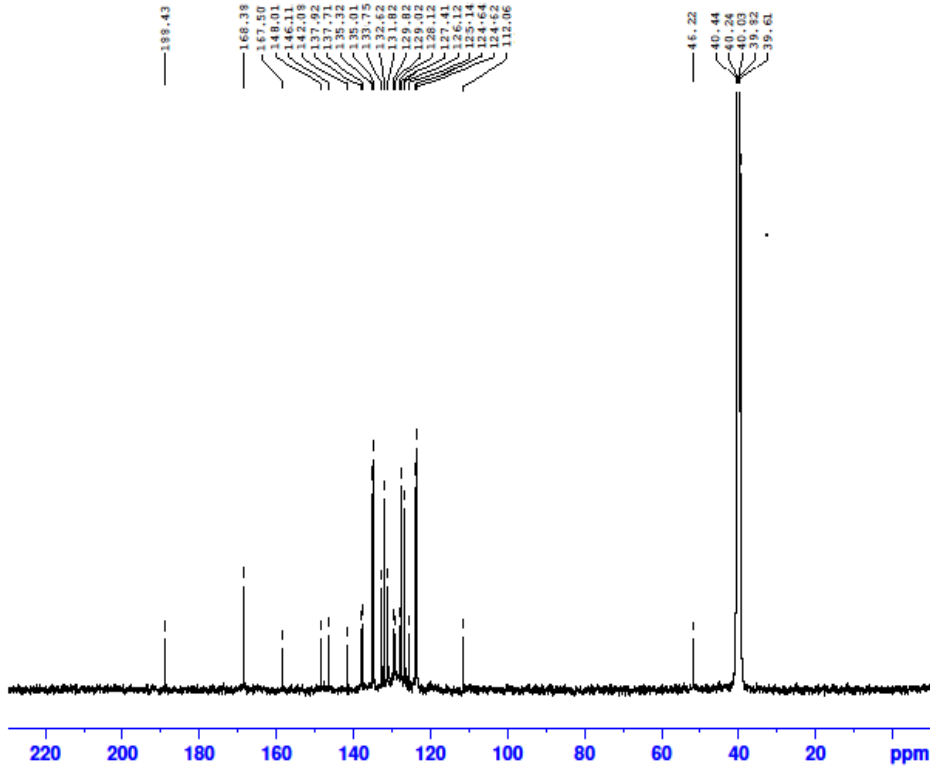
==== CHANNEL f2 ====
SFO2 400.1316005
NUC2 ^1H
CPDPRG2 waltz16
PCPD2 90.00
PLW2 22.0000000
PLW12 0.41091001
PLW13 0.33284000

F2 - Processing parameters
SI 32768
SF 100.6127690
WDW EM
SSB 0
LB 6.00
GB 0
PC 1.40

Figure S47: ¹³C NMR Spectroscopy of Compound 10g



MA- 10g
c13_su DMSO (C:\nmr-data) Student 15



Current Data Parameters
NAME Feb13-2020
EXPNO 200
PROCNO 1

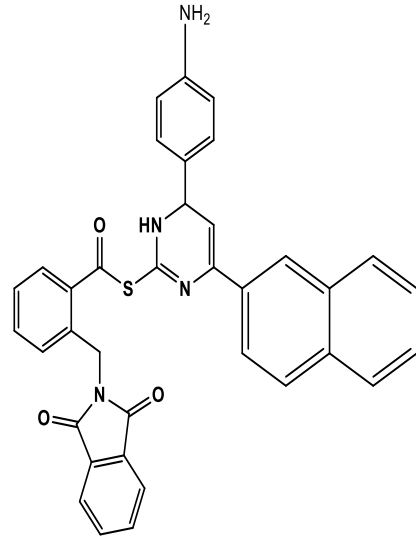
F2 - Acquisition Parameters
Date_ 20200216
Time 6.20
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 3200
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 100.43
DW 20.800 usec
DE 6.50 usec
TE 308.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

==== CHANNEL f1 ====
SFO1 100.6238364 MHz
NUC1 13C
P1 9.50 usec
PLW1 56.00000000 usec

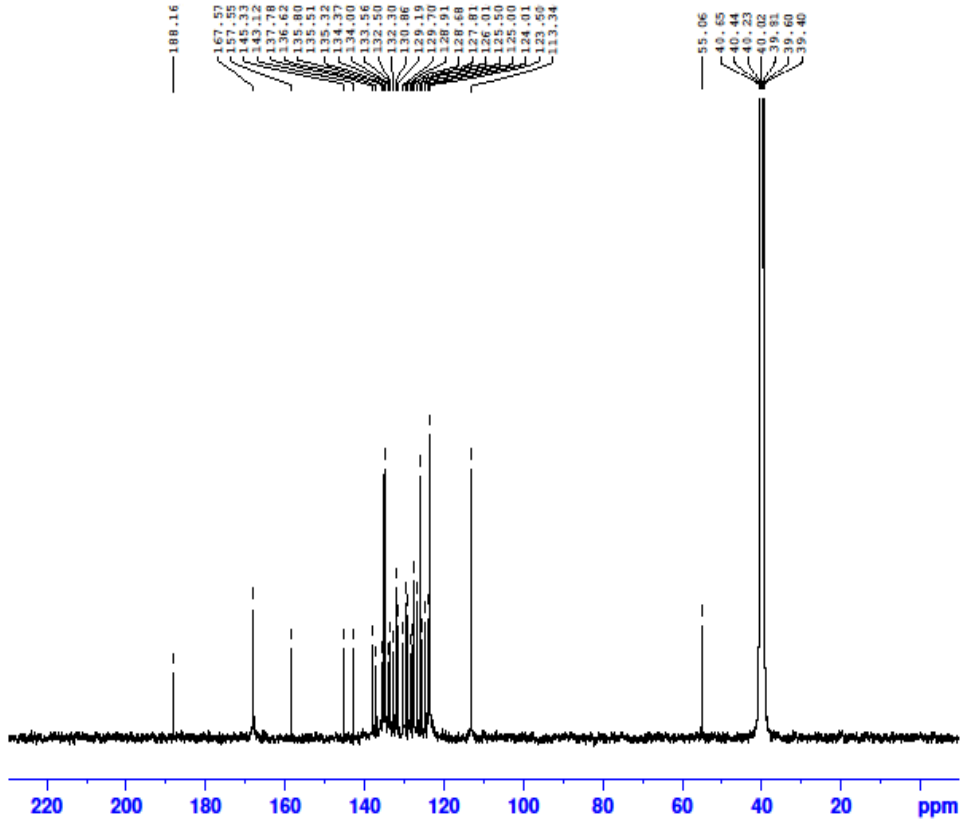
==== CHANNEL f2 ====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 22.00000000 usec
PLW12 0.41091001 usec
PLW13 0.33284000 usec

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 6.00 Hz
GB 0
PC 1.40

Figure S48: ^{13}C NMR Spectroscopy of Compound **10j**



MA-10j
c13_su DMSO (C:\nmr-data) Student 16



Current Data Parameters
NAME Feb13-2020
EXPNO 210
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200216
Time 9.26
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 3200
DS 4
SWH 24038.461
FIDRES 0.366798
AQ 1.3631488
RG 100.43
DW 20.800
DE 6.50
TE 308.1
D1 2.00000000
D11 0.03000000
TD0 1

==== CHANNEL f1 ====
SFO1 100.6238364
NUC1 13C
P1 9.50
PLW1 56.00000000

==== CHANNEL f2 ====
SFO2 400.1316005
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00
PLW2 22.00000000
PLW12 0.41091001
PLW13 0.33284000

F2 - Processing parameters
SI 32768
SF 100.6127690
WDW EM
SSB 0
LB 6.00
GB 0
PC 1.40

Mass Spectroscopy

Figure S49: Mass Spectroscopy of Compound 5b

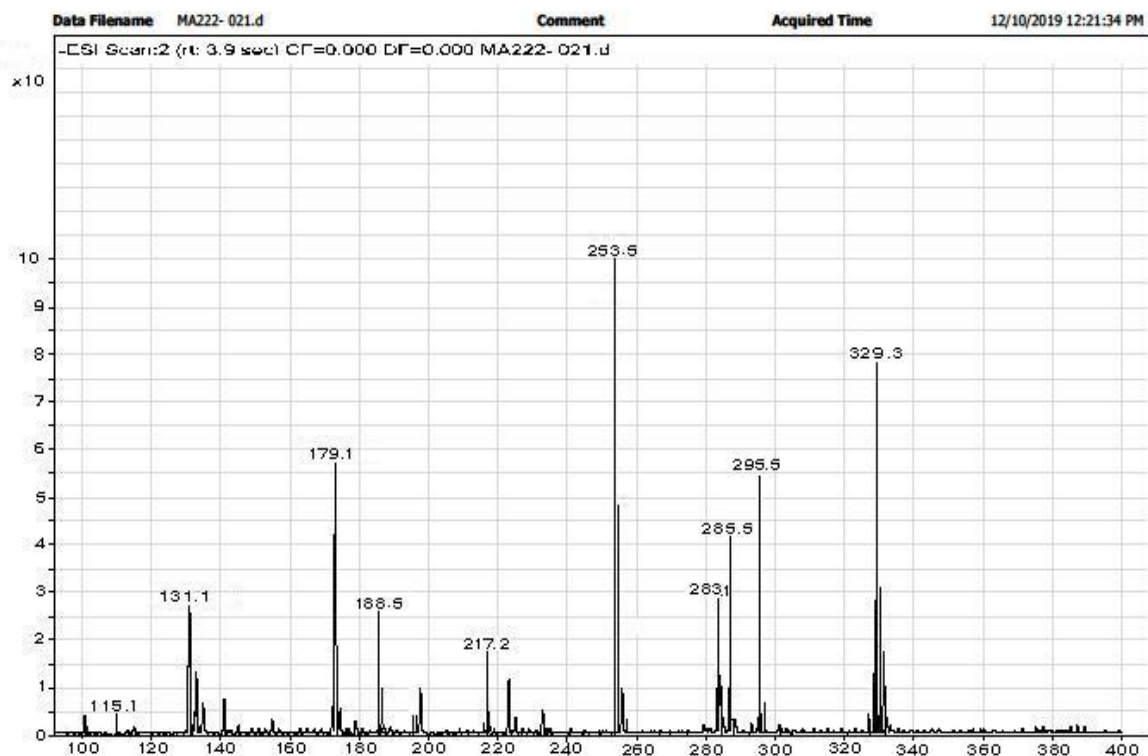
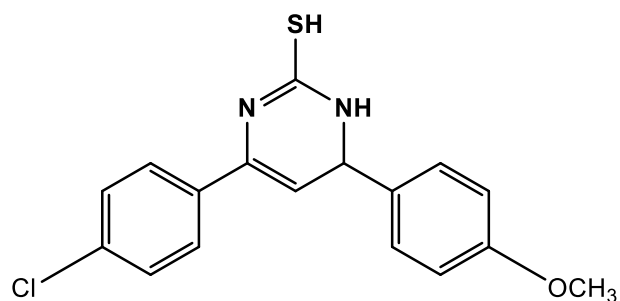


Figure S50: Mass Spectroscopy of Compound 5c

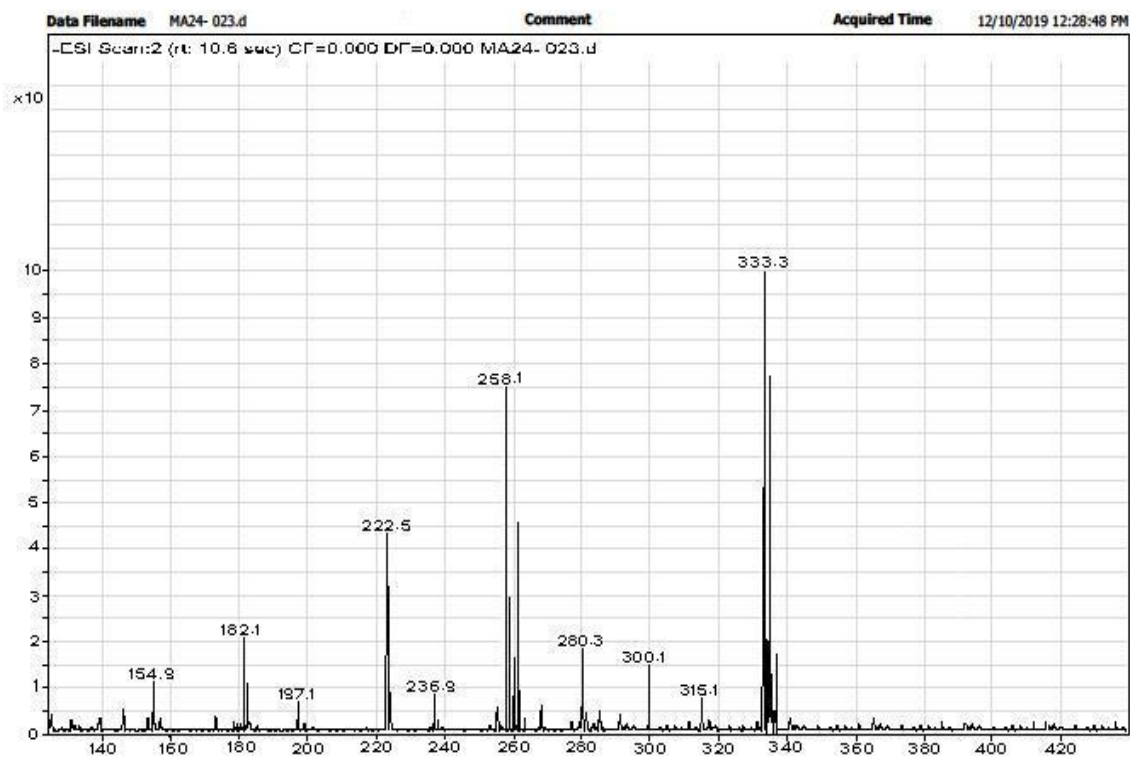
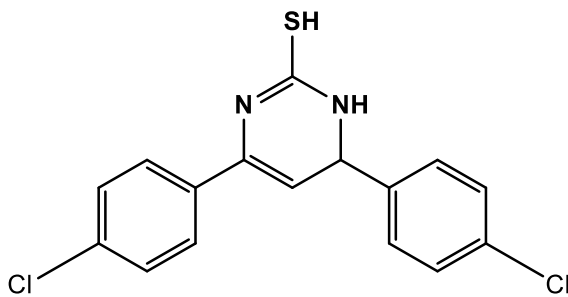


Figure S51: Mass Spectroscopy of Compound 5d

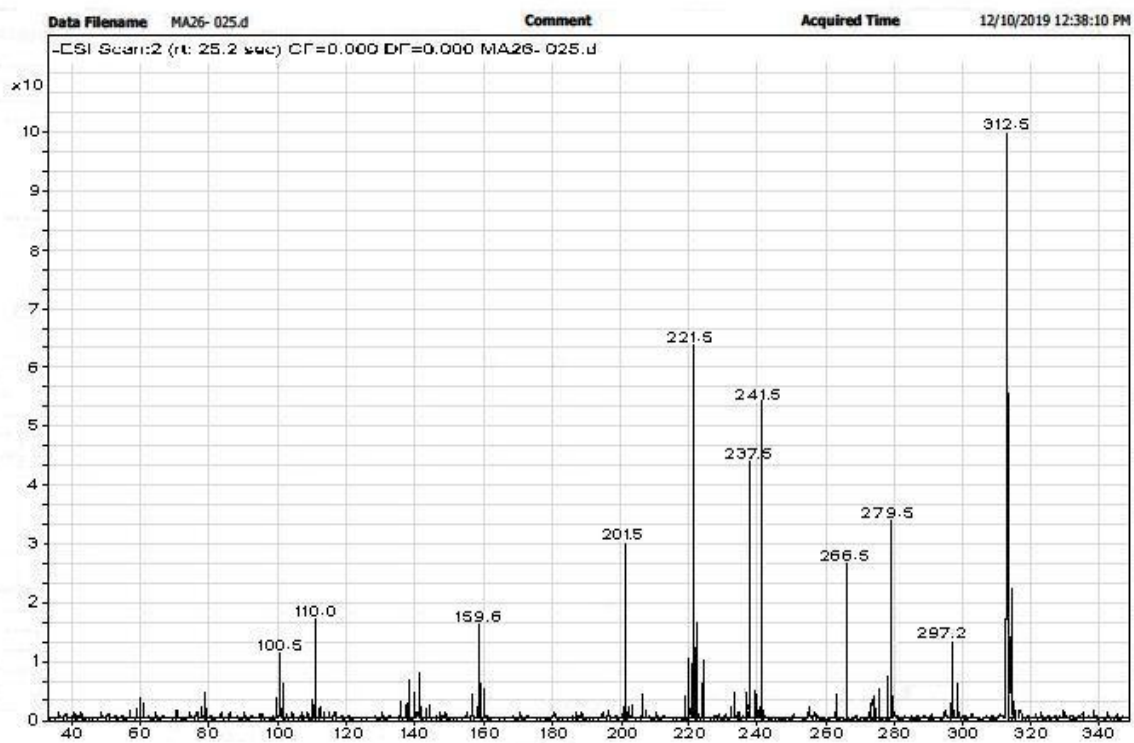
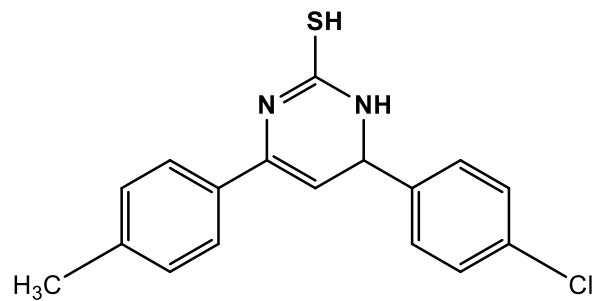


Figure S52: Mass Spectroscopy of Compound 5e

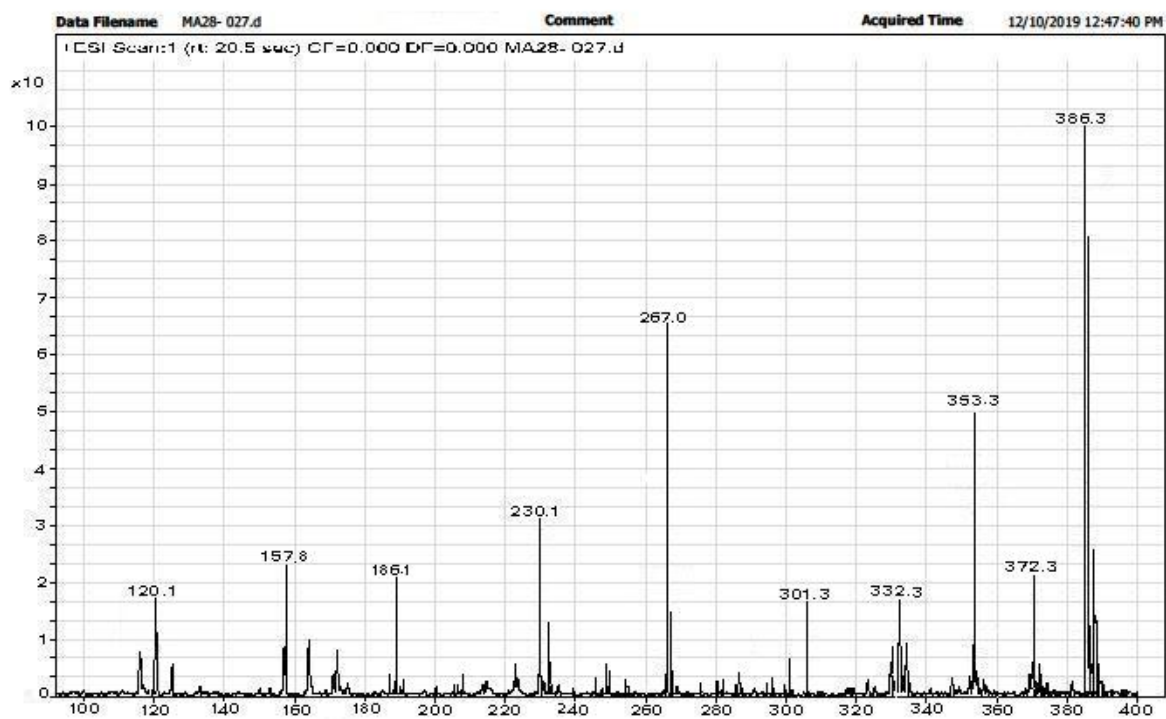
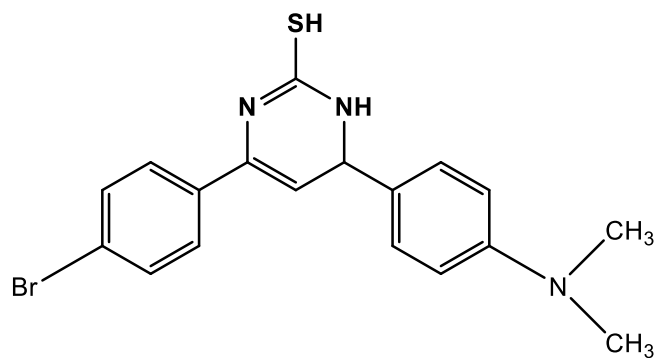


Figure S53: Mass Spectroscopy of Compound 5f

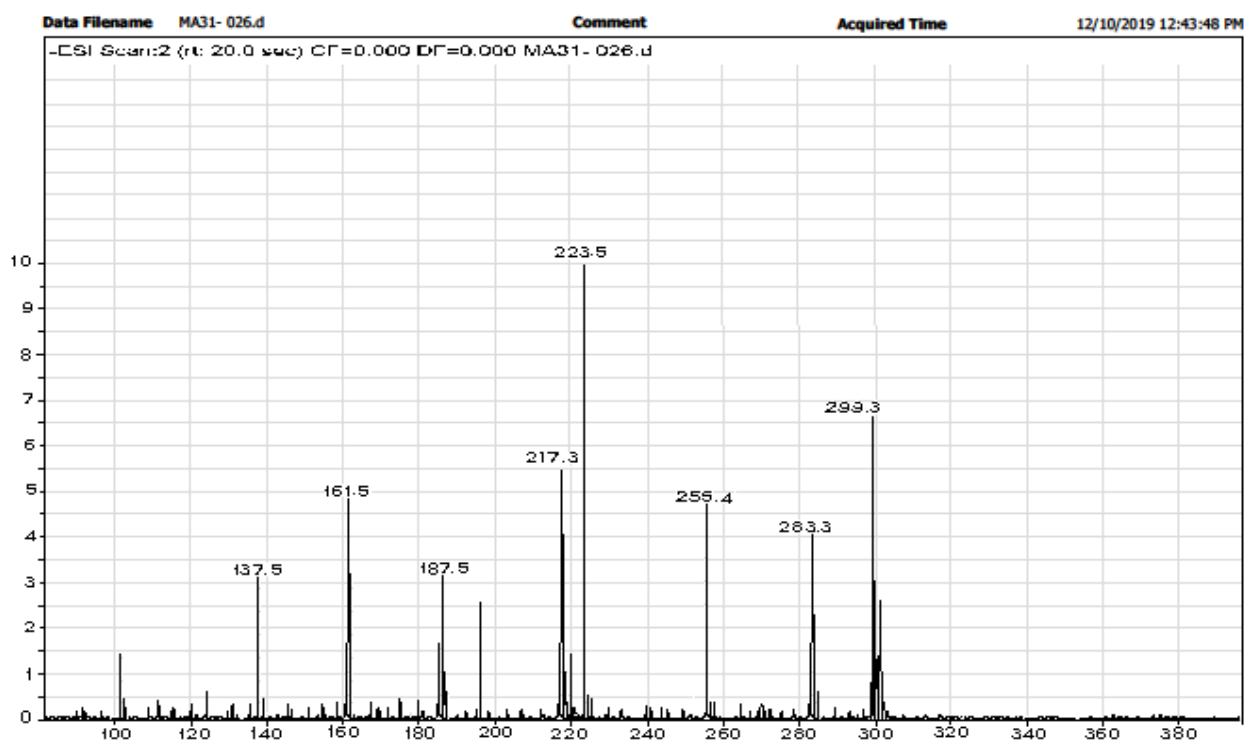
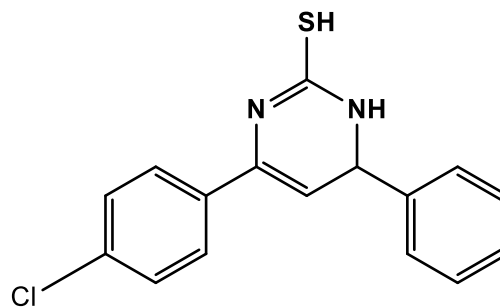


Figure S54: Mass Spectroscopy of Compound 5g

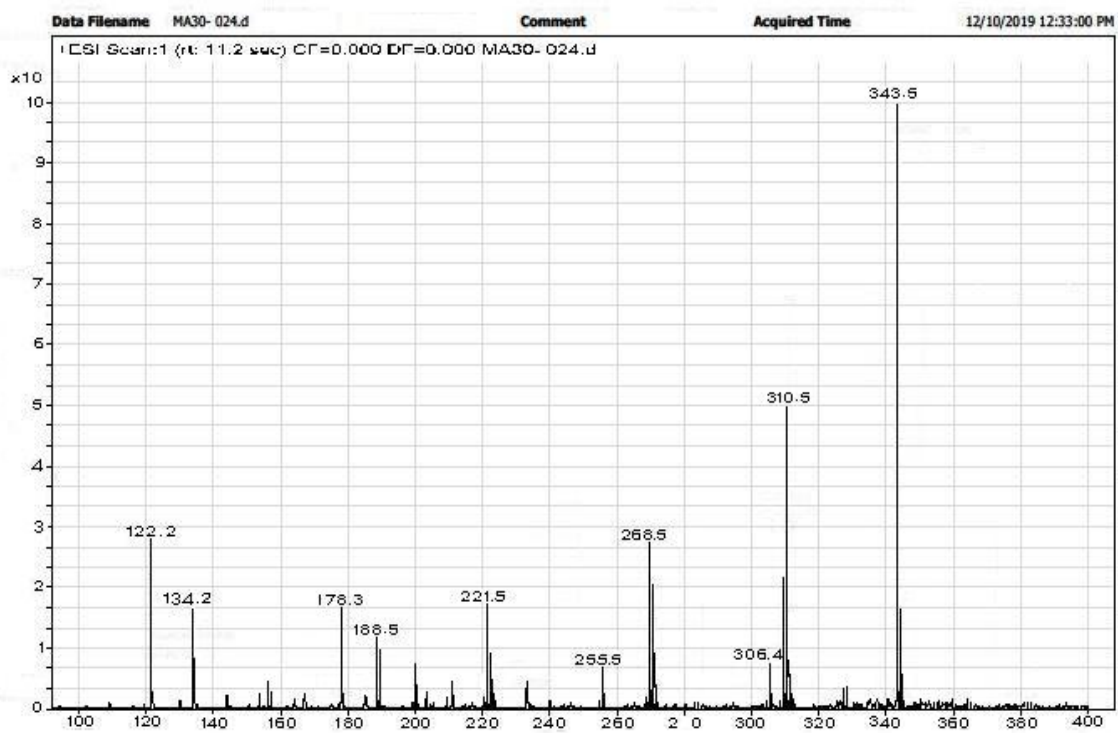
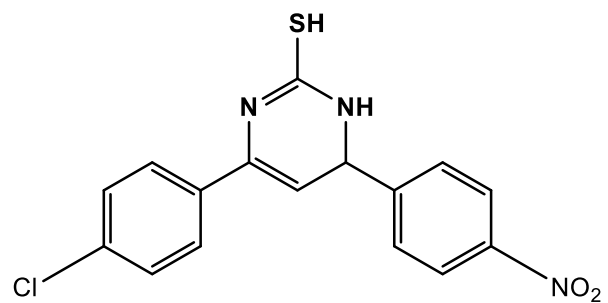


Figure S55: Mass Spectroscopy of Compound 5h

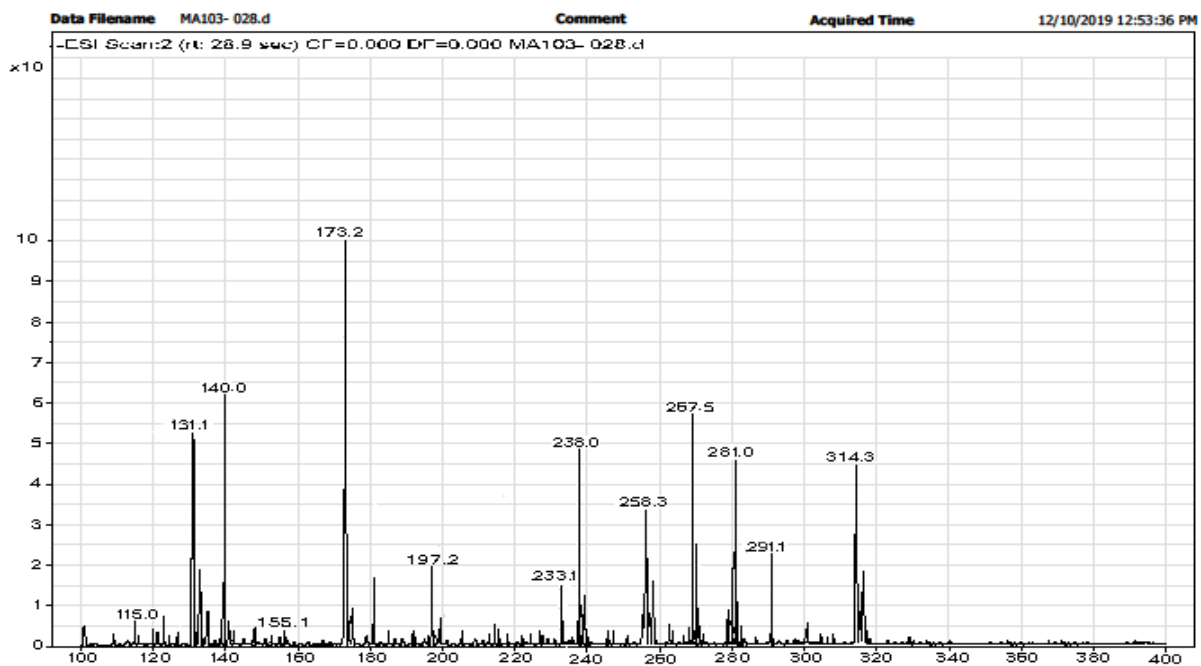
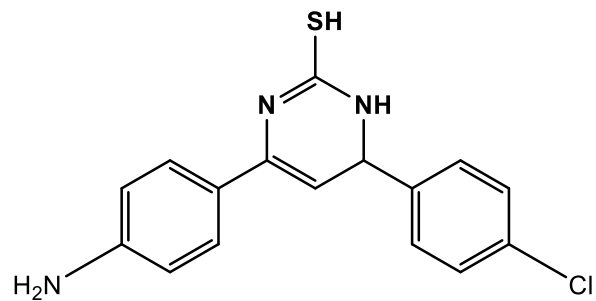


Figure S56: Mass Spectroscopy of Compound 5i

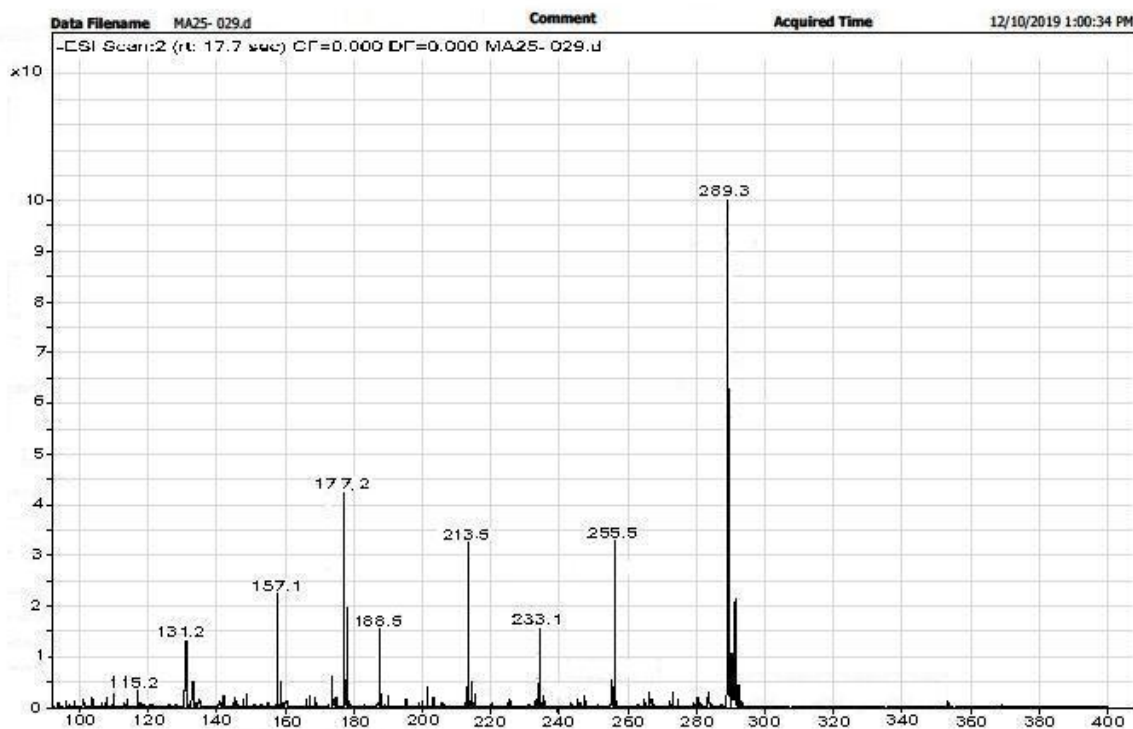
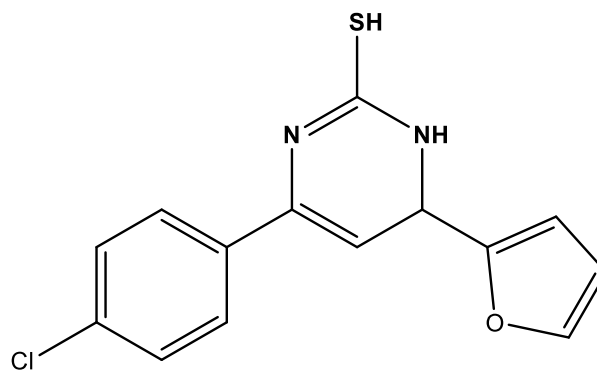


Figure S57: Mass Spectroscopy of Compound 5j

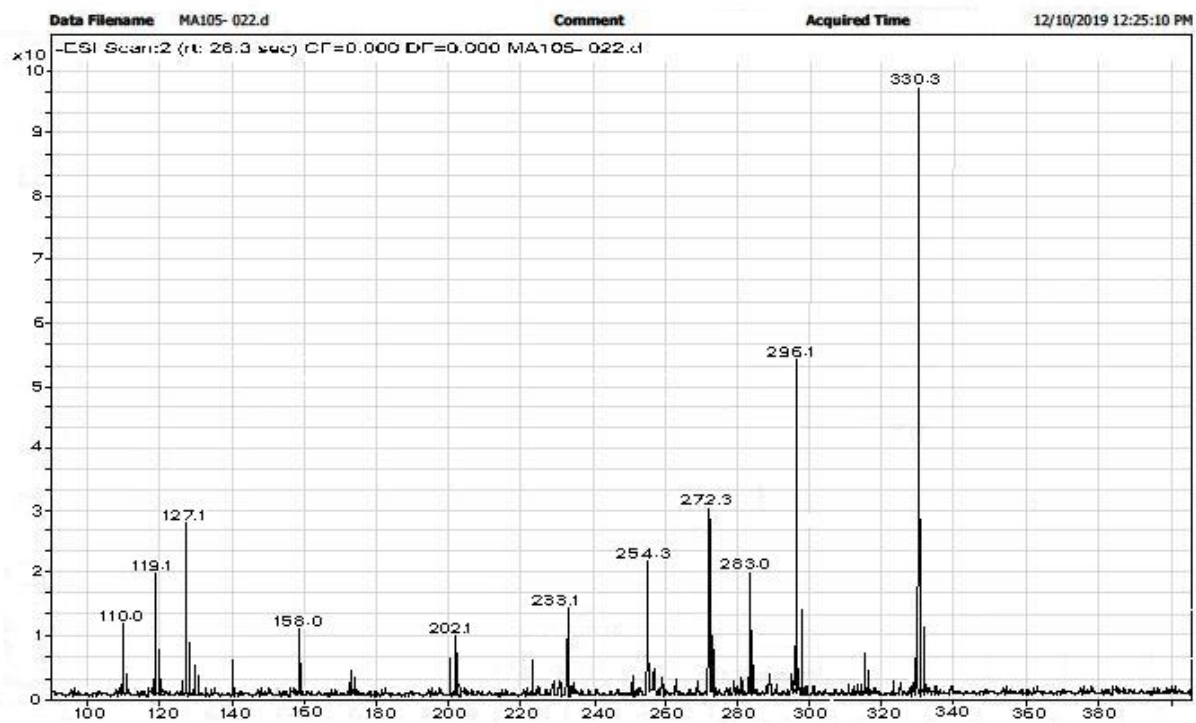
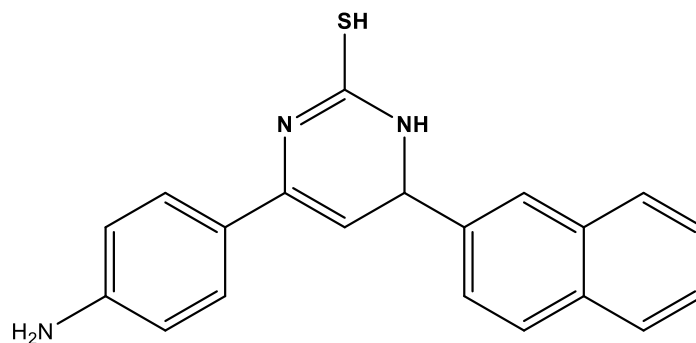


Figure S58: Mass Spectroscopy of Compound 10a

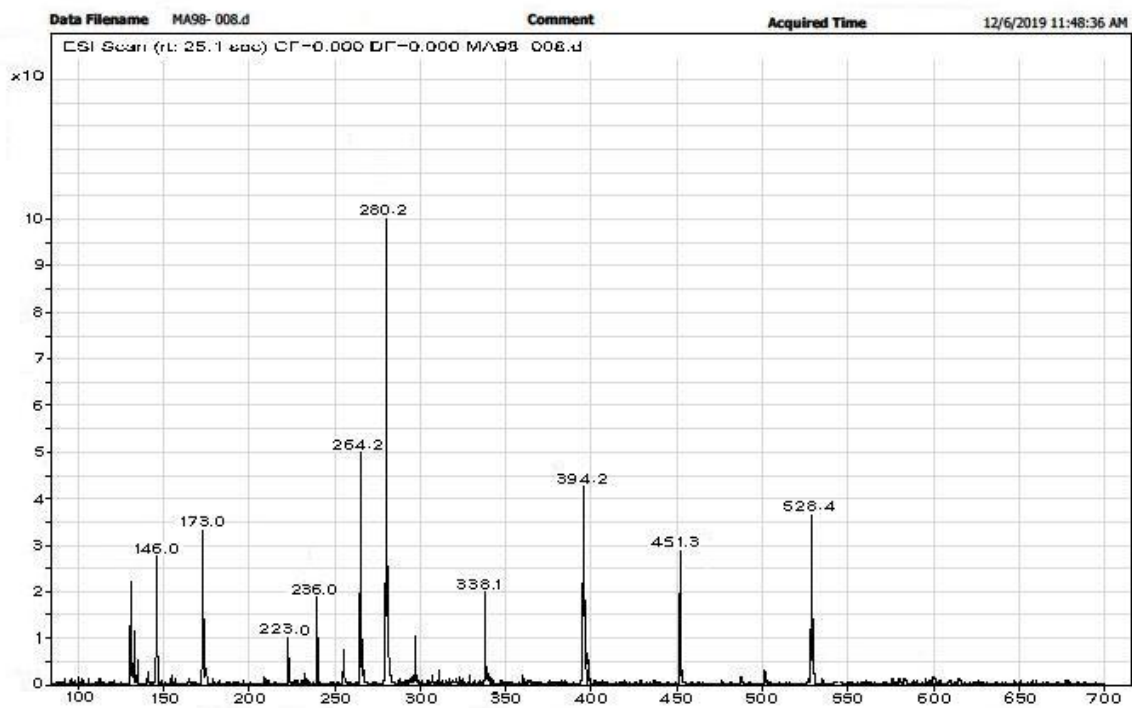
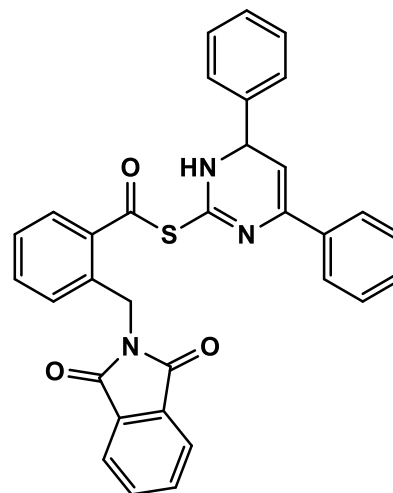


Figure S59: Mass Spectroscopy of Compound 10b

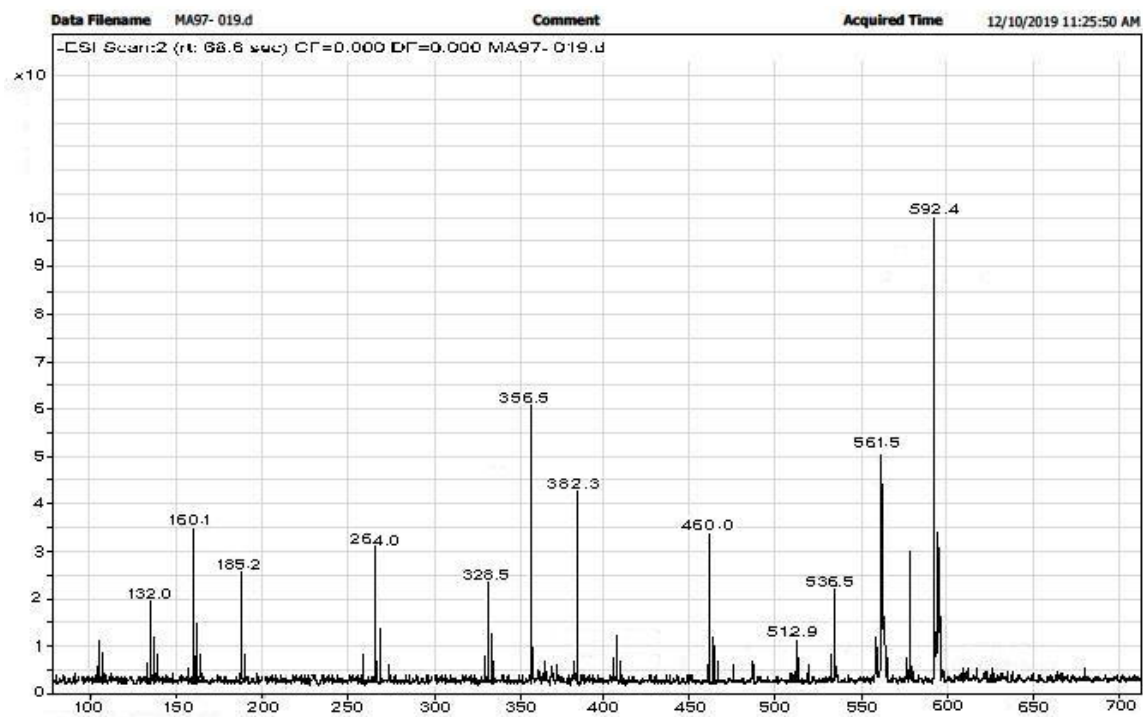
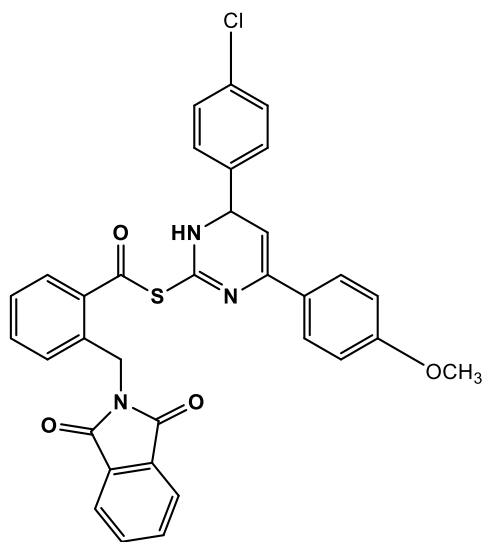


Figure S60: Mass Spectroscopy of Compound 10c

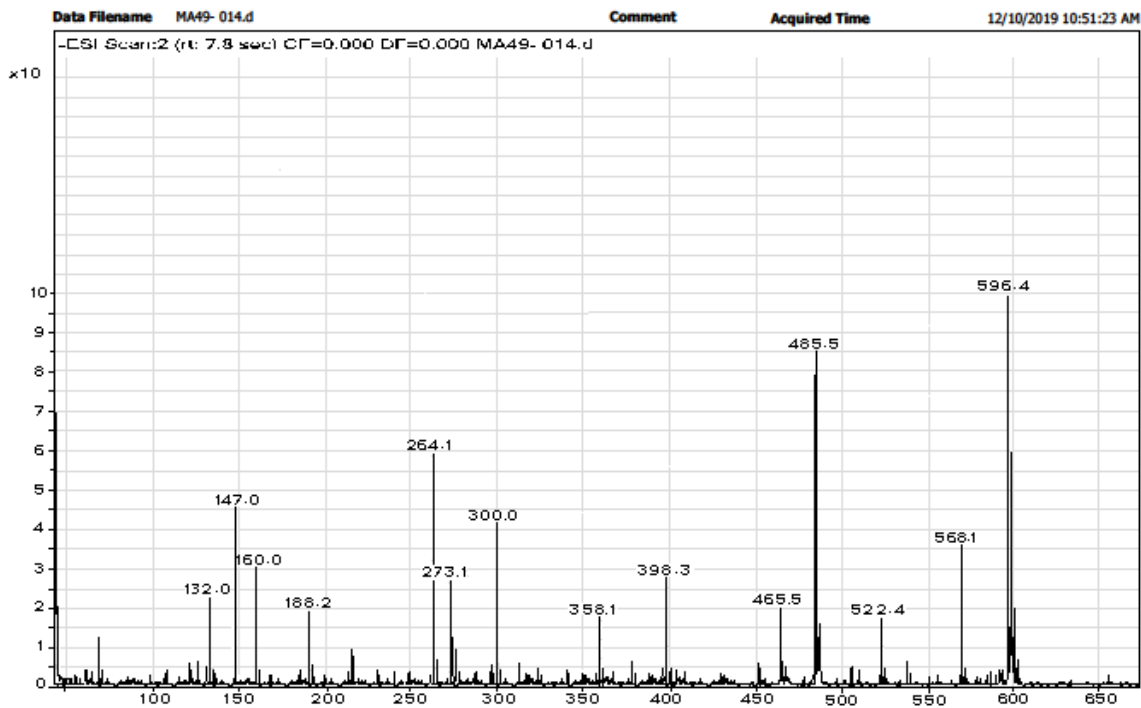
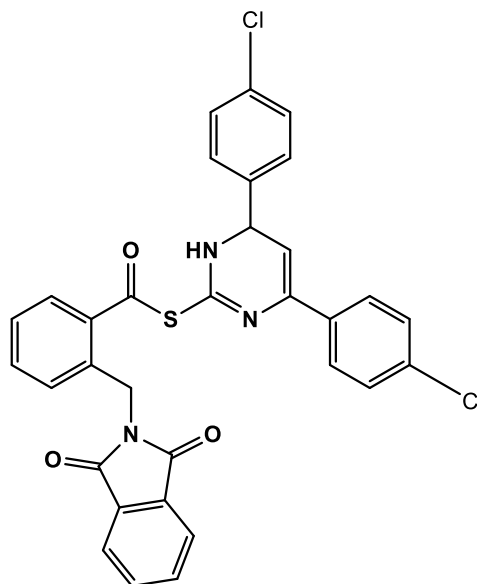


Figure S61: Mass Spectroscopy of Compound 10d

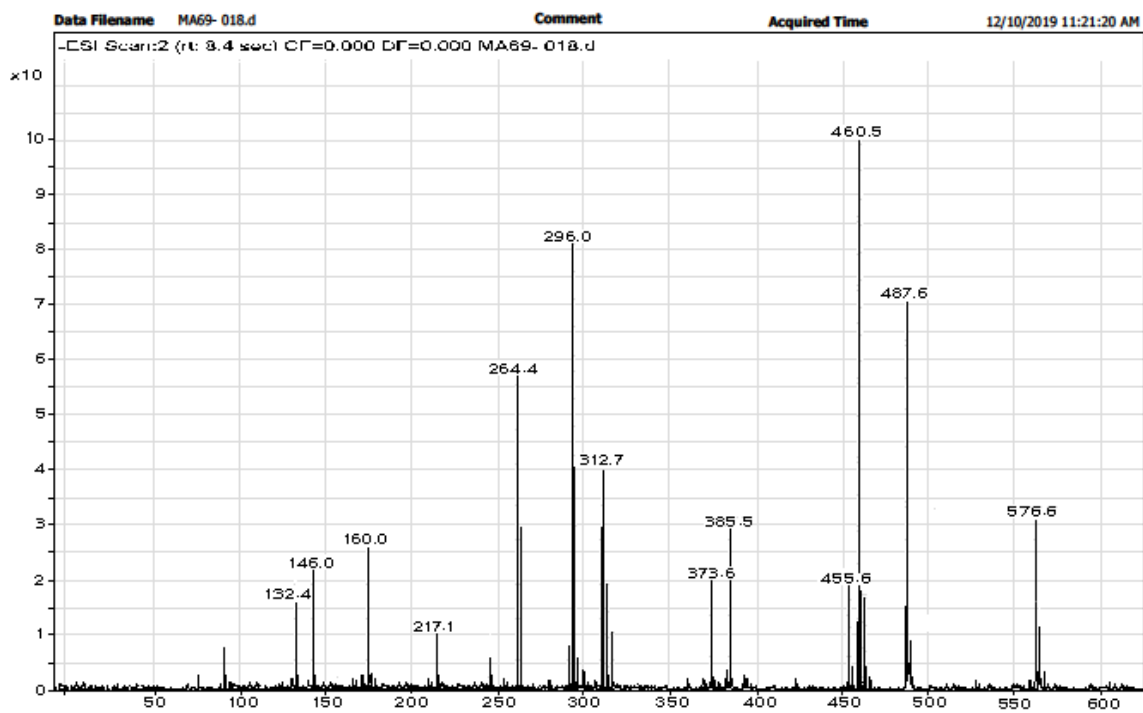
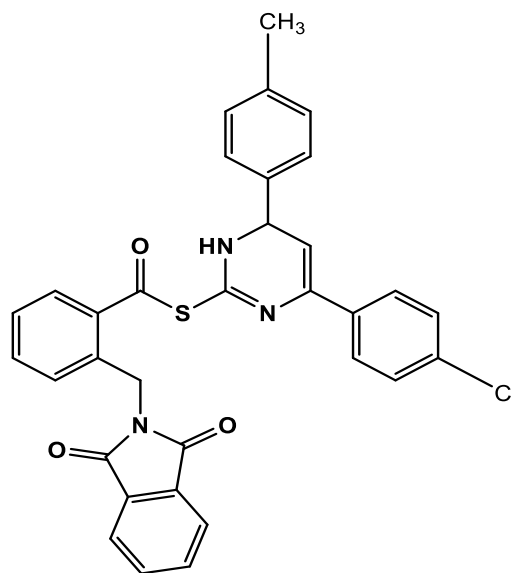


Figure S62: Mass Spectroscopy of Compound 10e

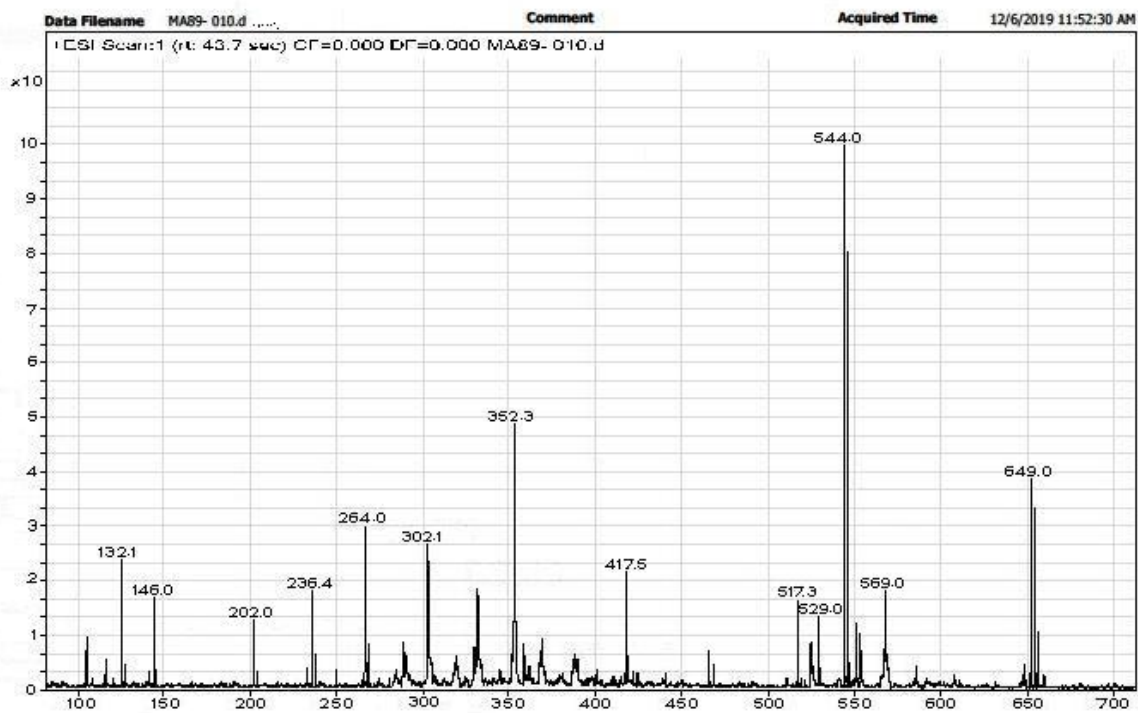
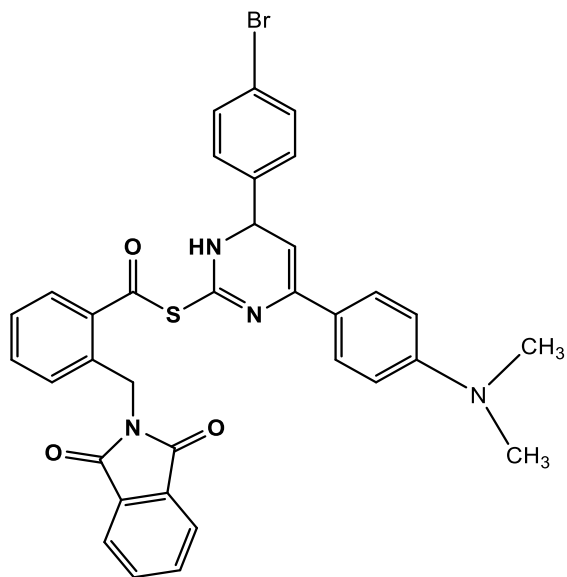


Figure S63: Mass Spectroscopy of Compound 10f

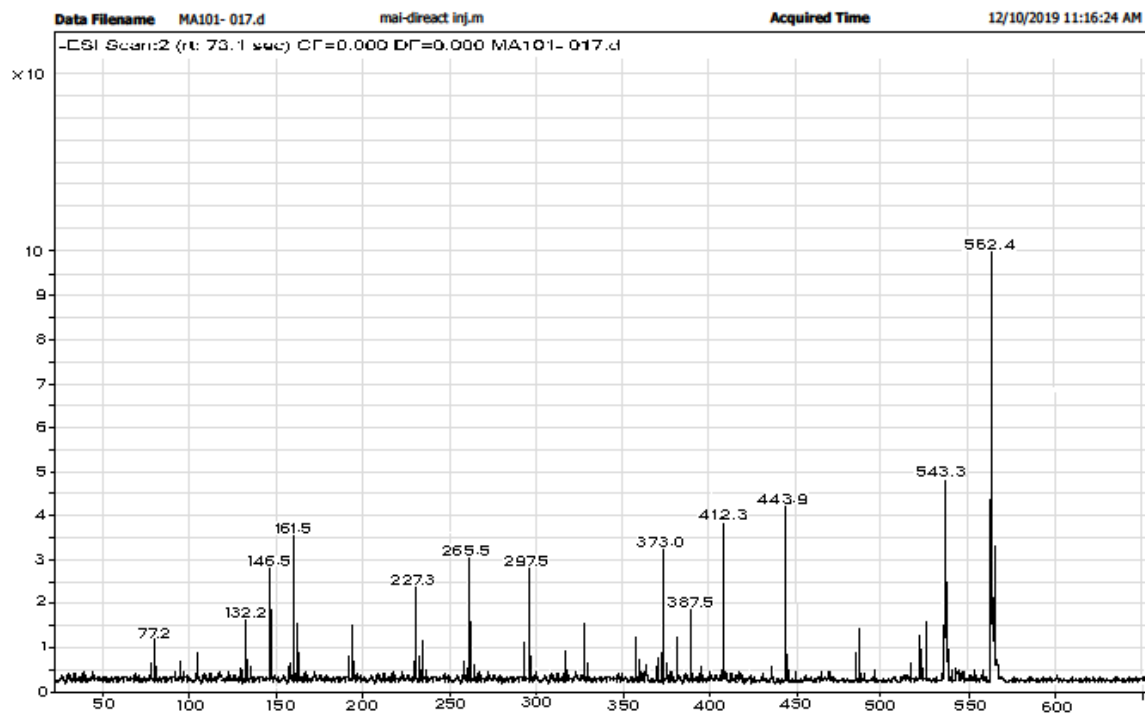
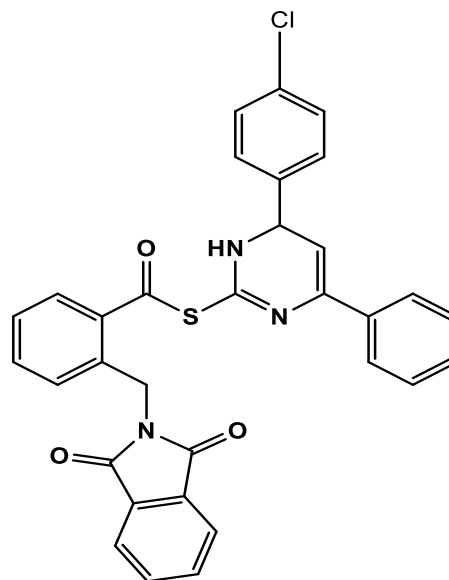


Figure S64: Mass Spectroscopy of Compound 10g

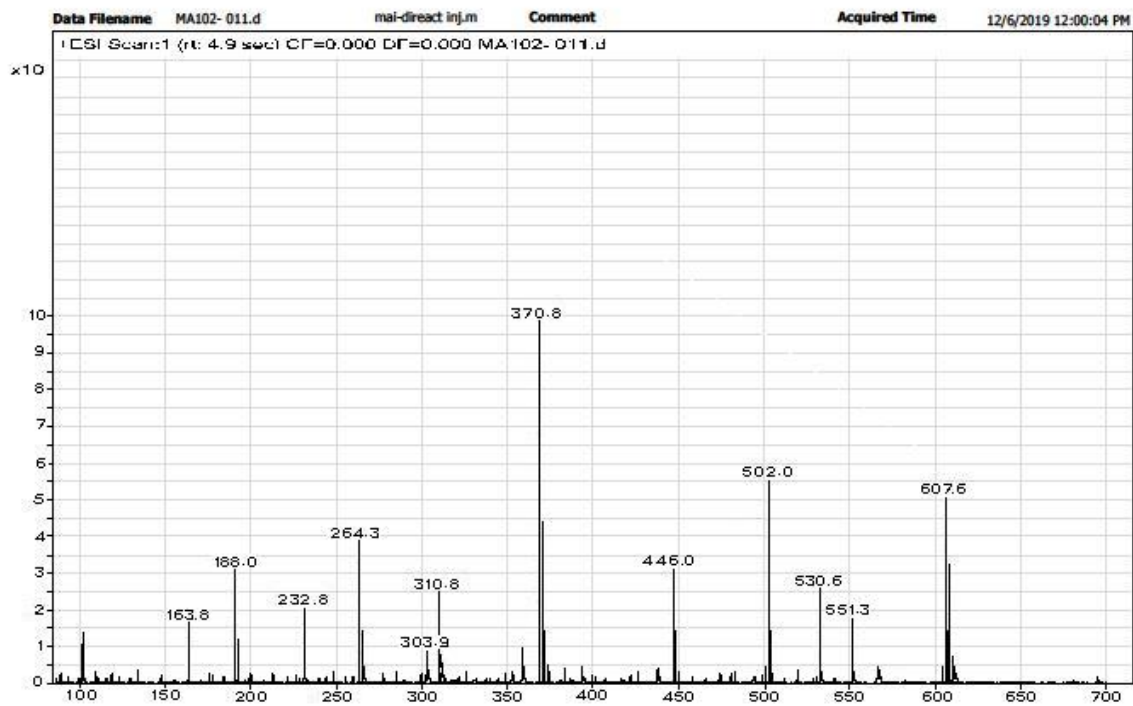
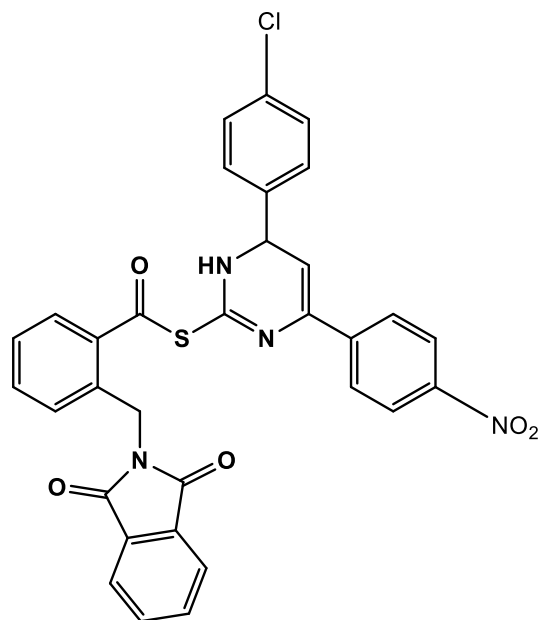


Figure S65: Mass Spectroscopy of Compound 10h

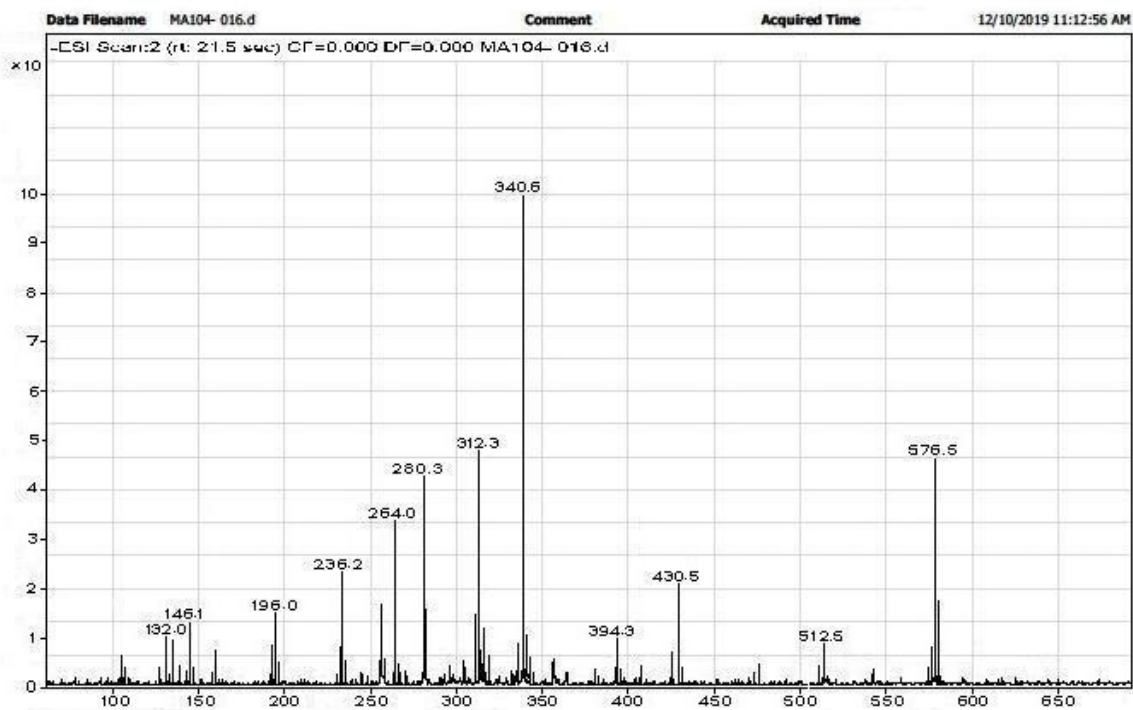
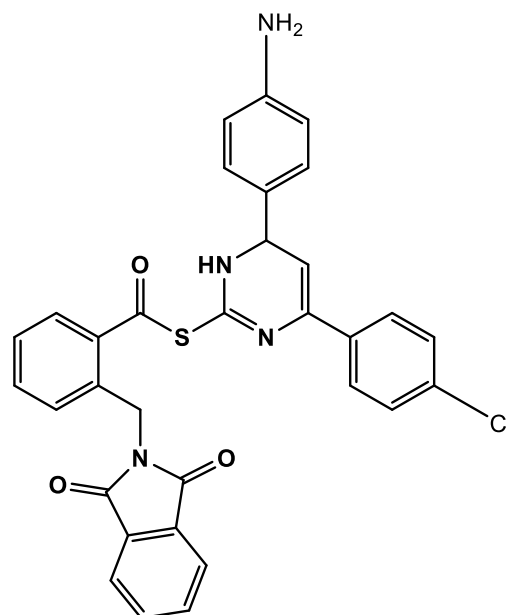


Figure S66: Mass Spectroscopy of Compound 10i

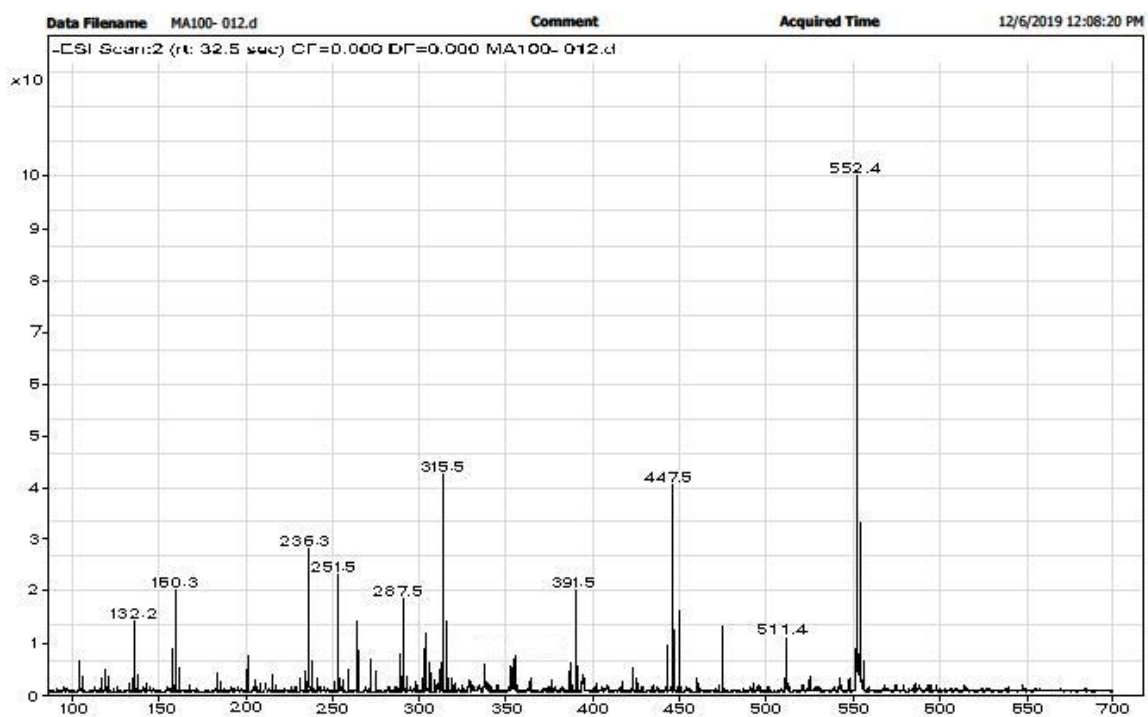
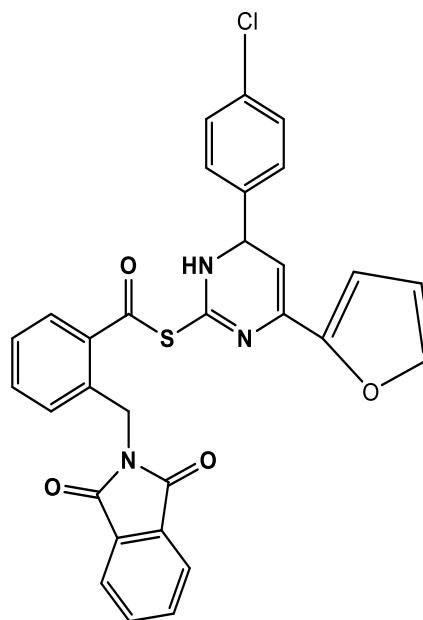


Figure S67: Mass Spectroscopy of Compound 10j

