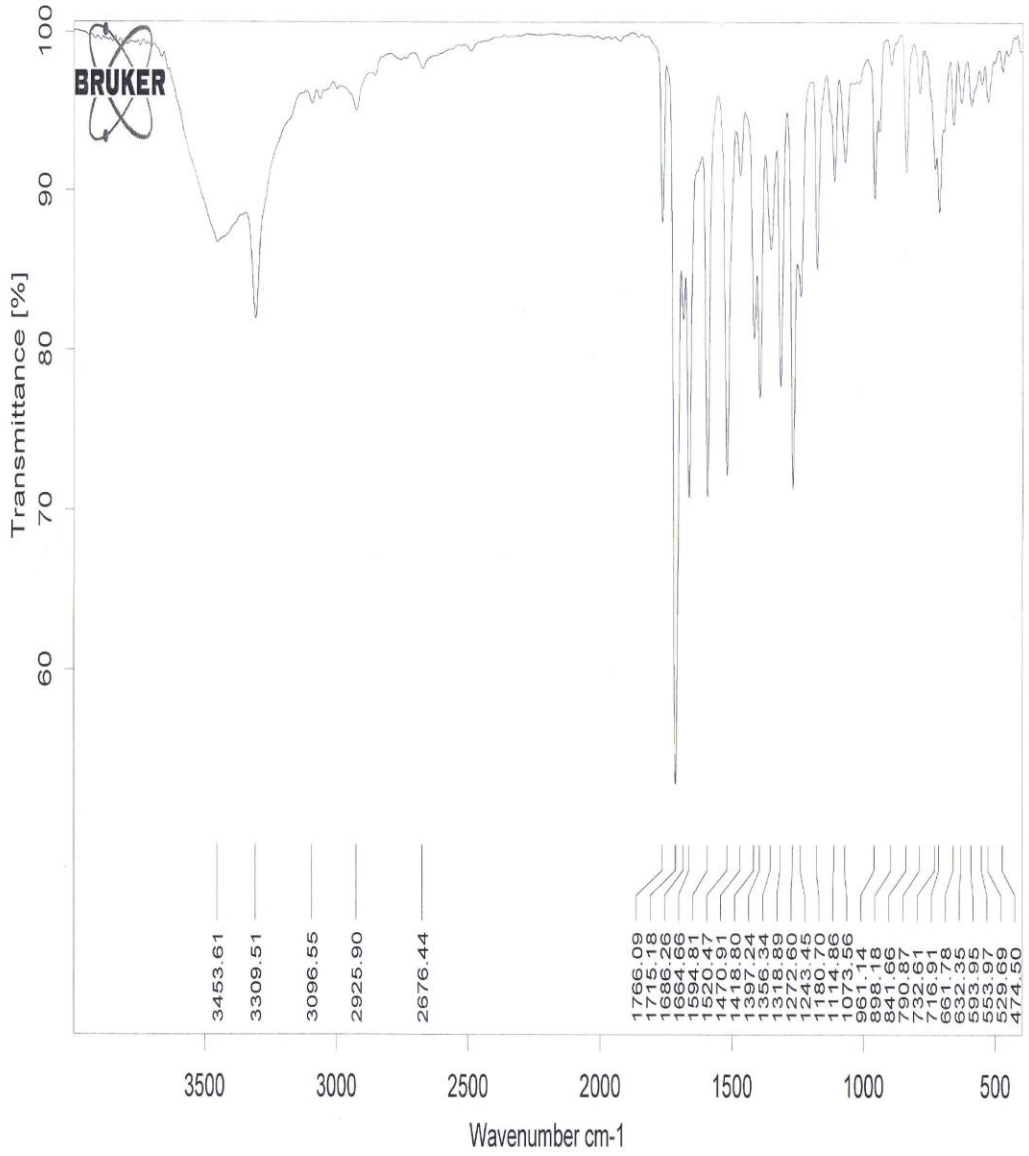
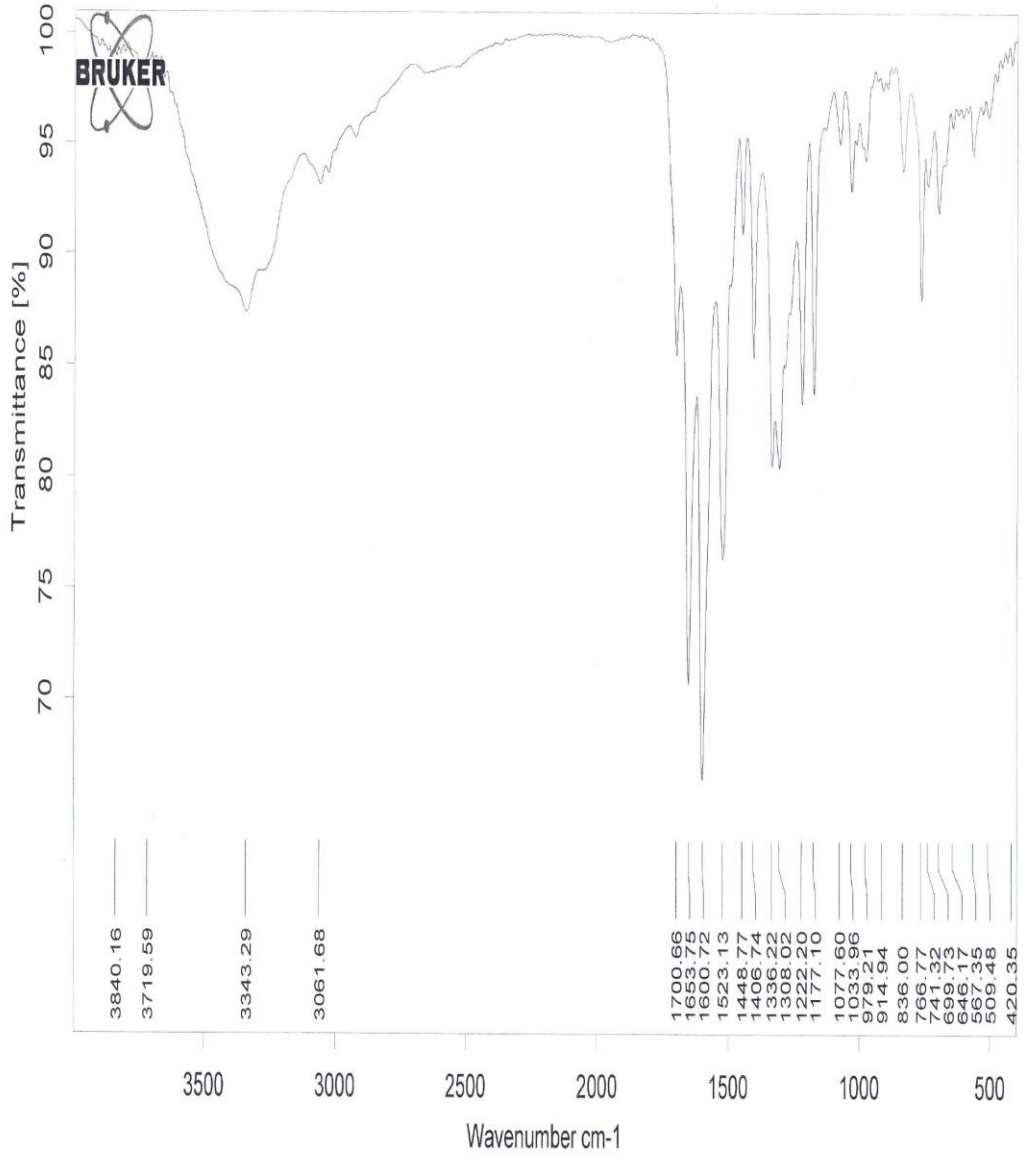
Supplementary Data:

IR spectroscopy:

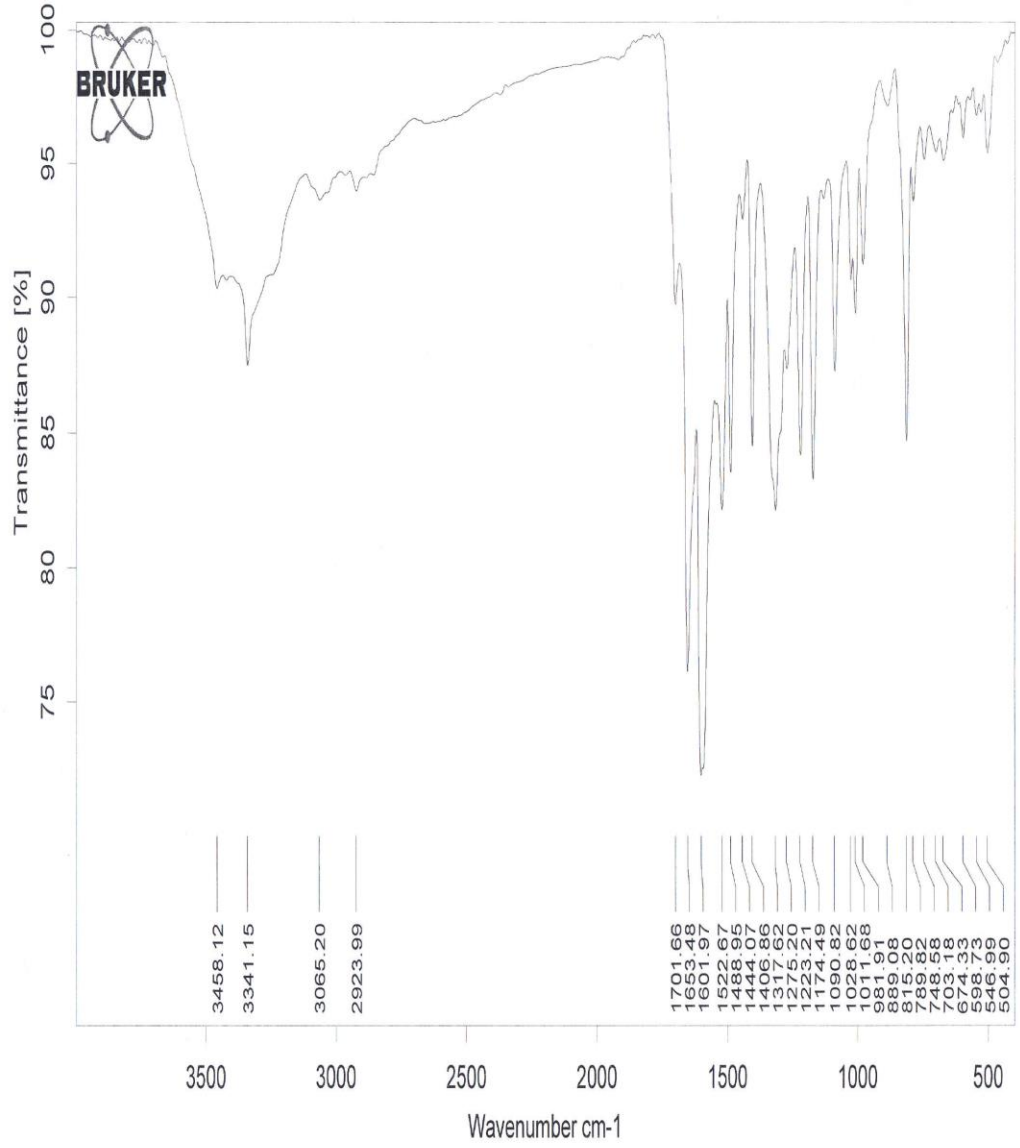


C:\Program Files\OPUS_65\MEAS\MA 8.0	6	Sample Compartment	05/12/2018

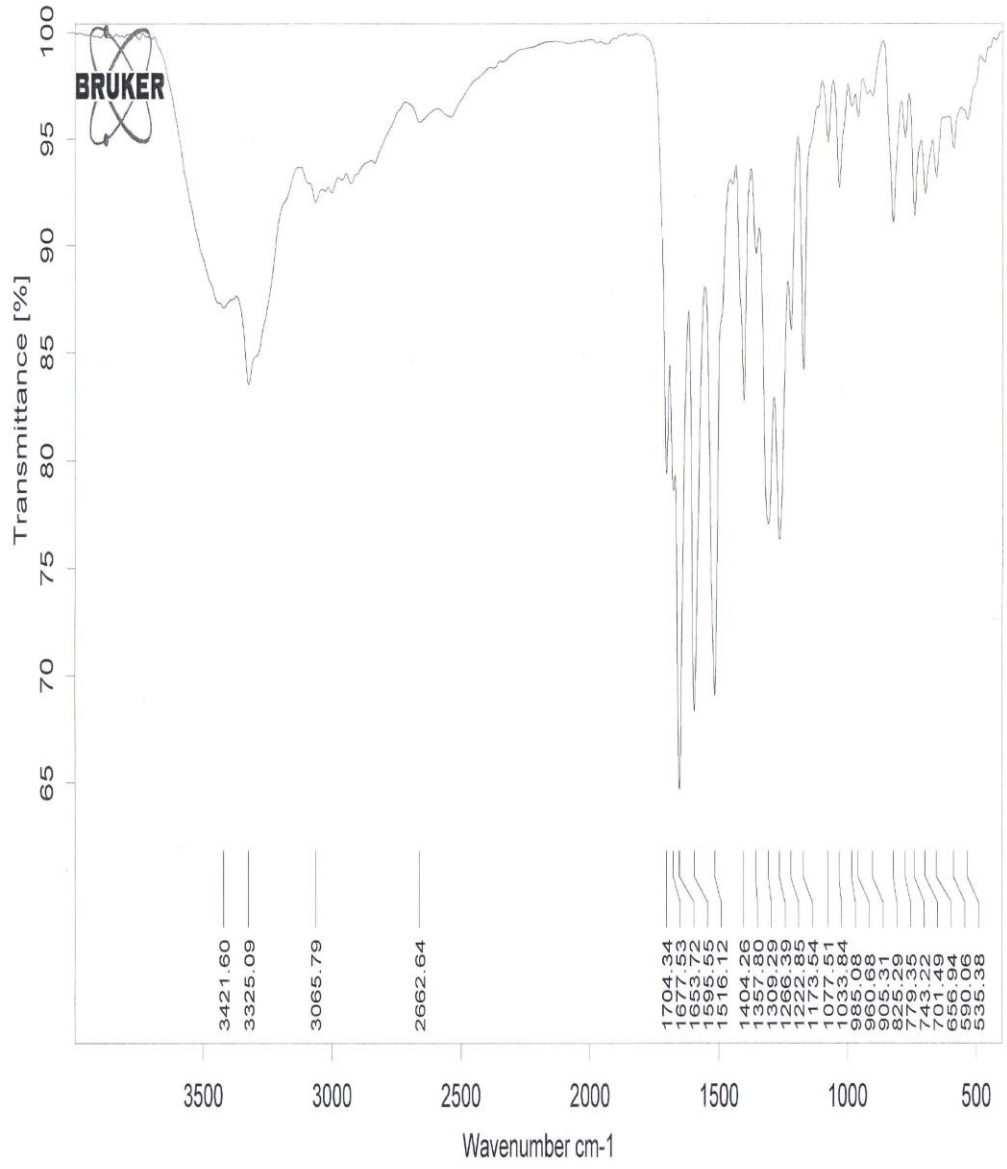
Page 1/1



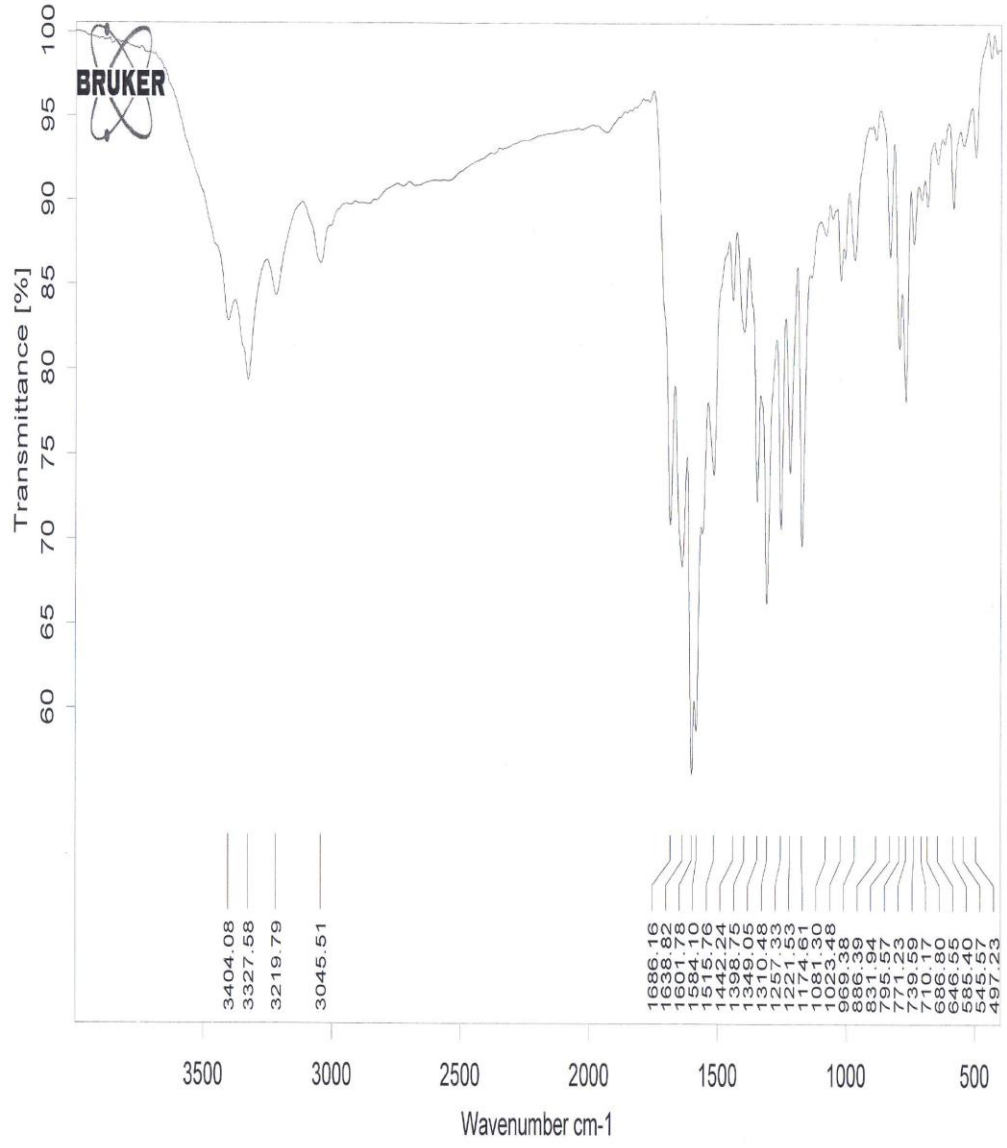
C:\Program Files\OPUS_65\MEAS\AM 11.0	7a	Sample Compartment	12/12/2018



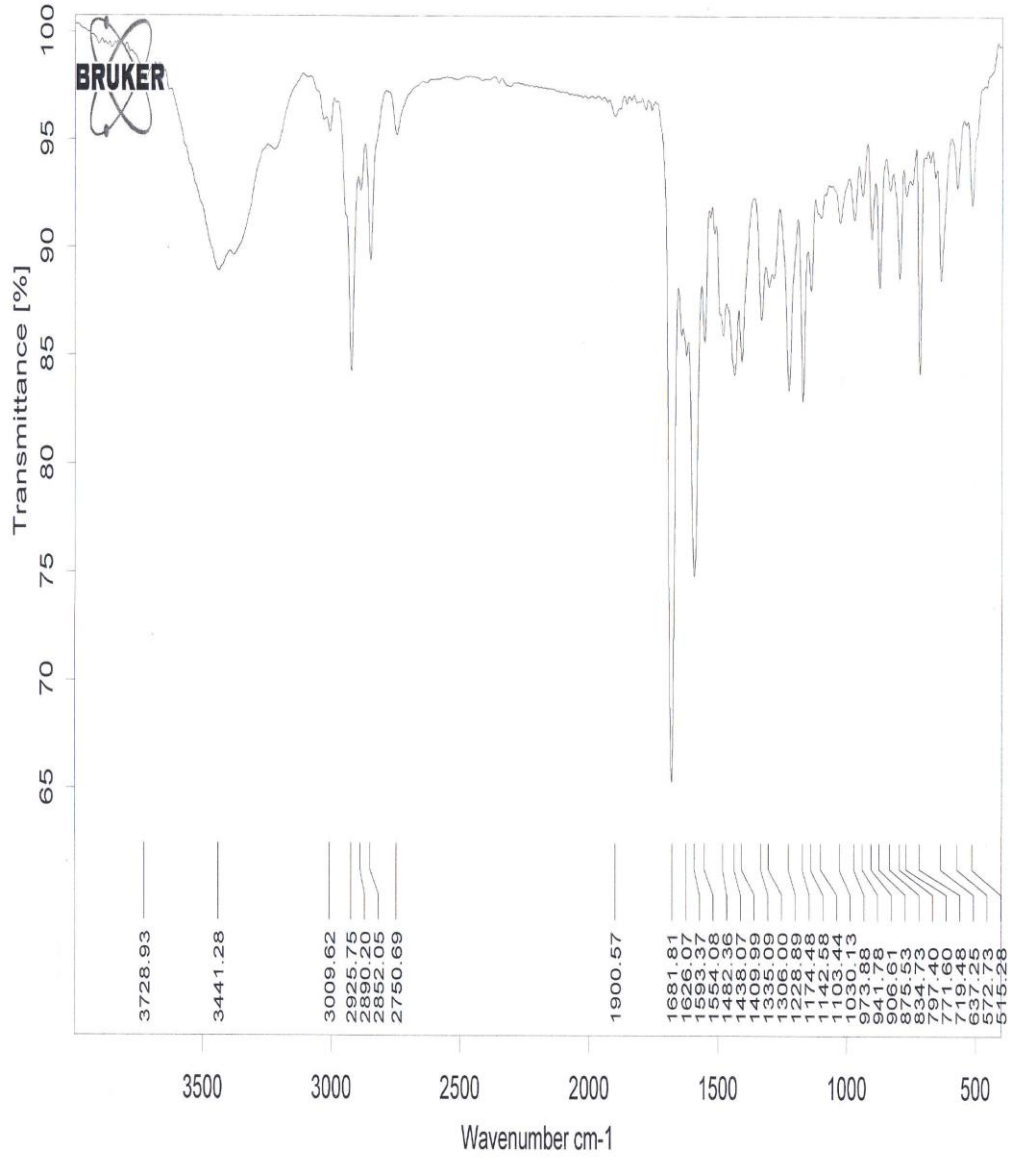
C:\Program Files\OPUS_65\MEAS\MA 9.0	7b	Sample Compartment	05/12/2018



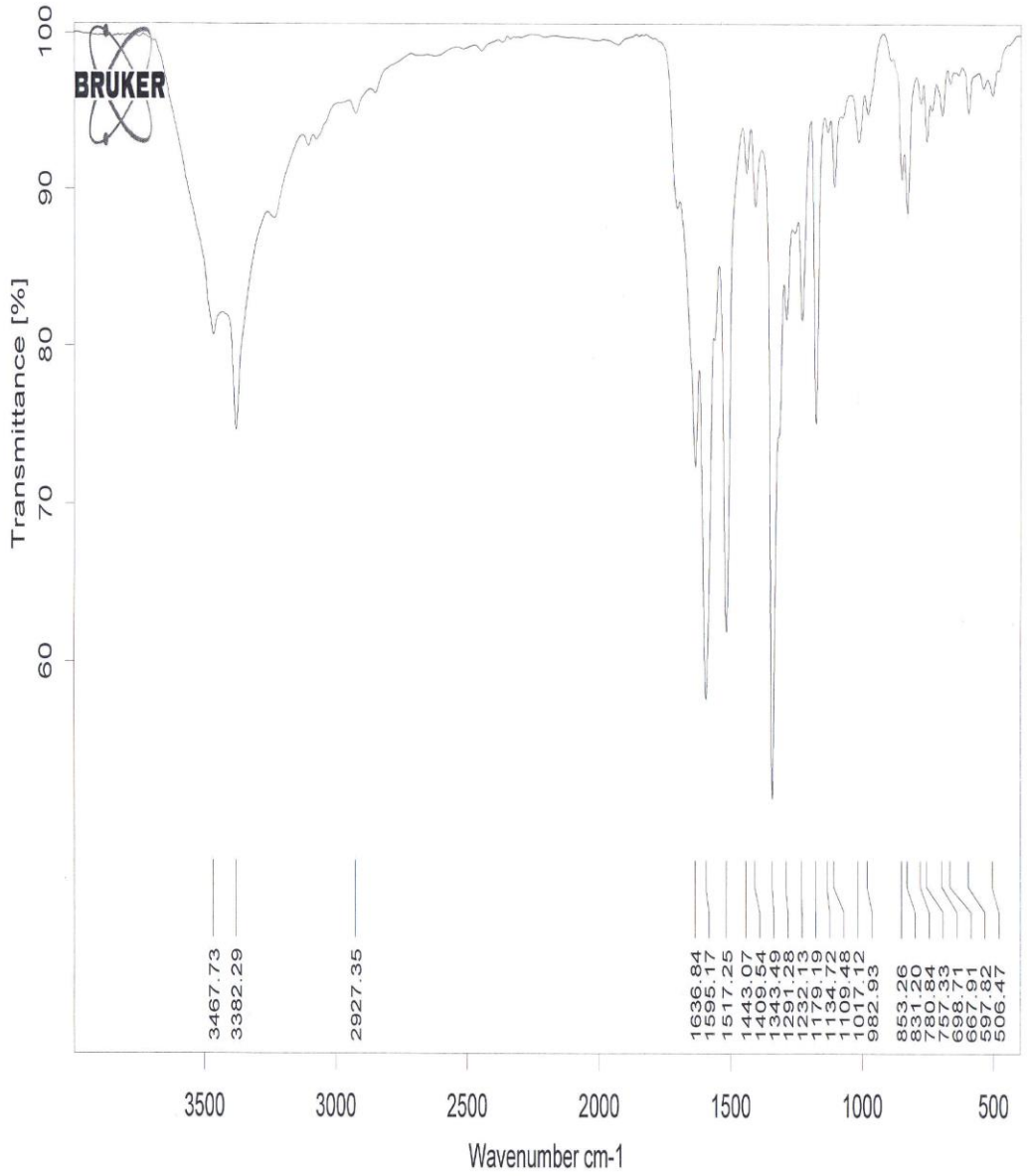
C:\Program Files\OPUS_65\MEAS\MA 10.0	7c	Sample Compartment	05/12/2018



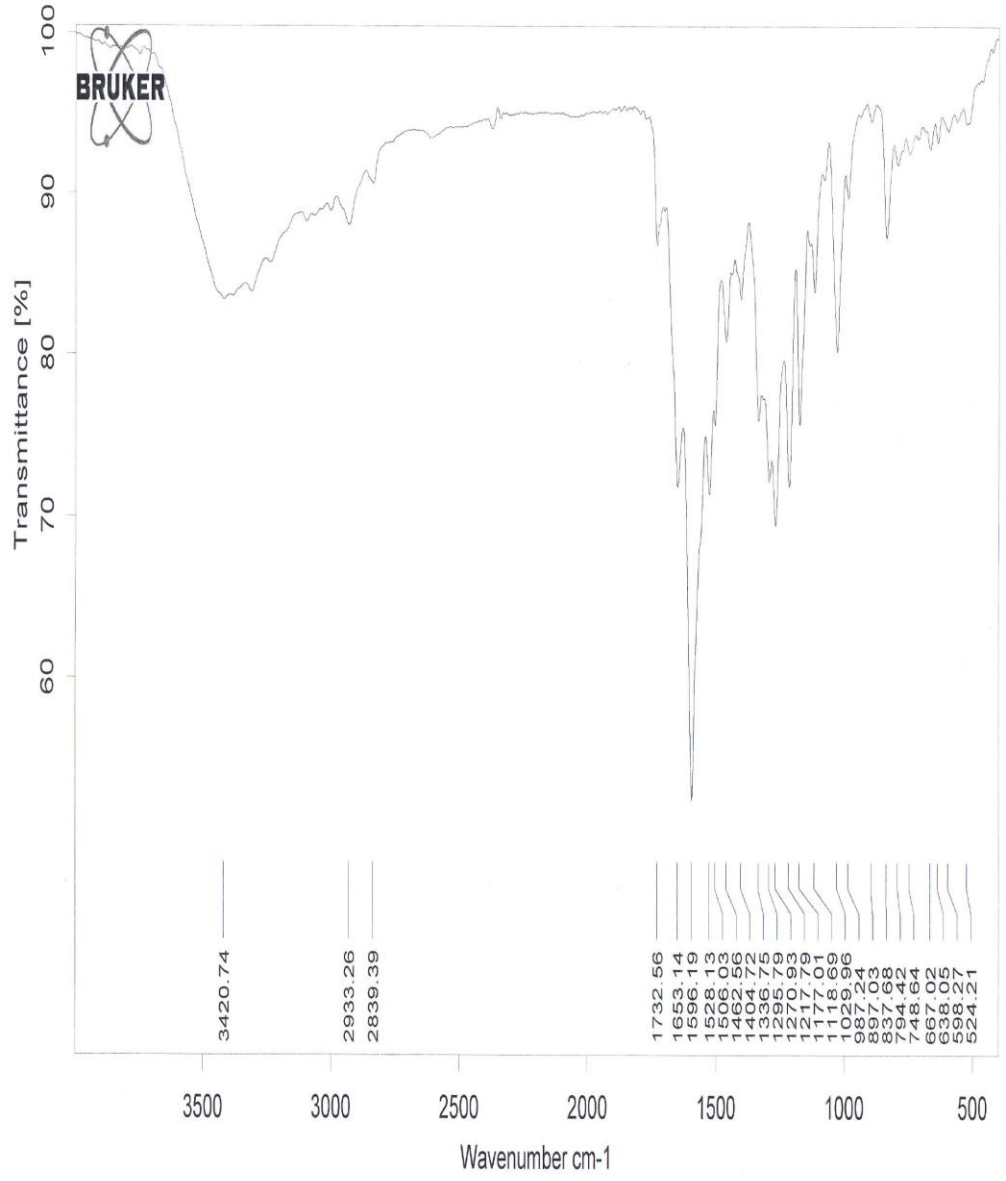
C:\Program Files\OPUS_65\MEAS\AM 12.0	7d	Sample Compartment	12/12/2018



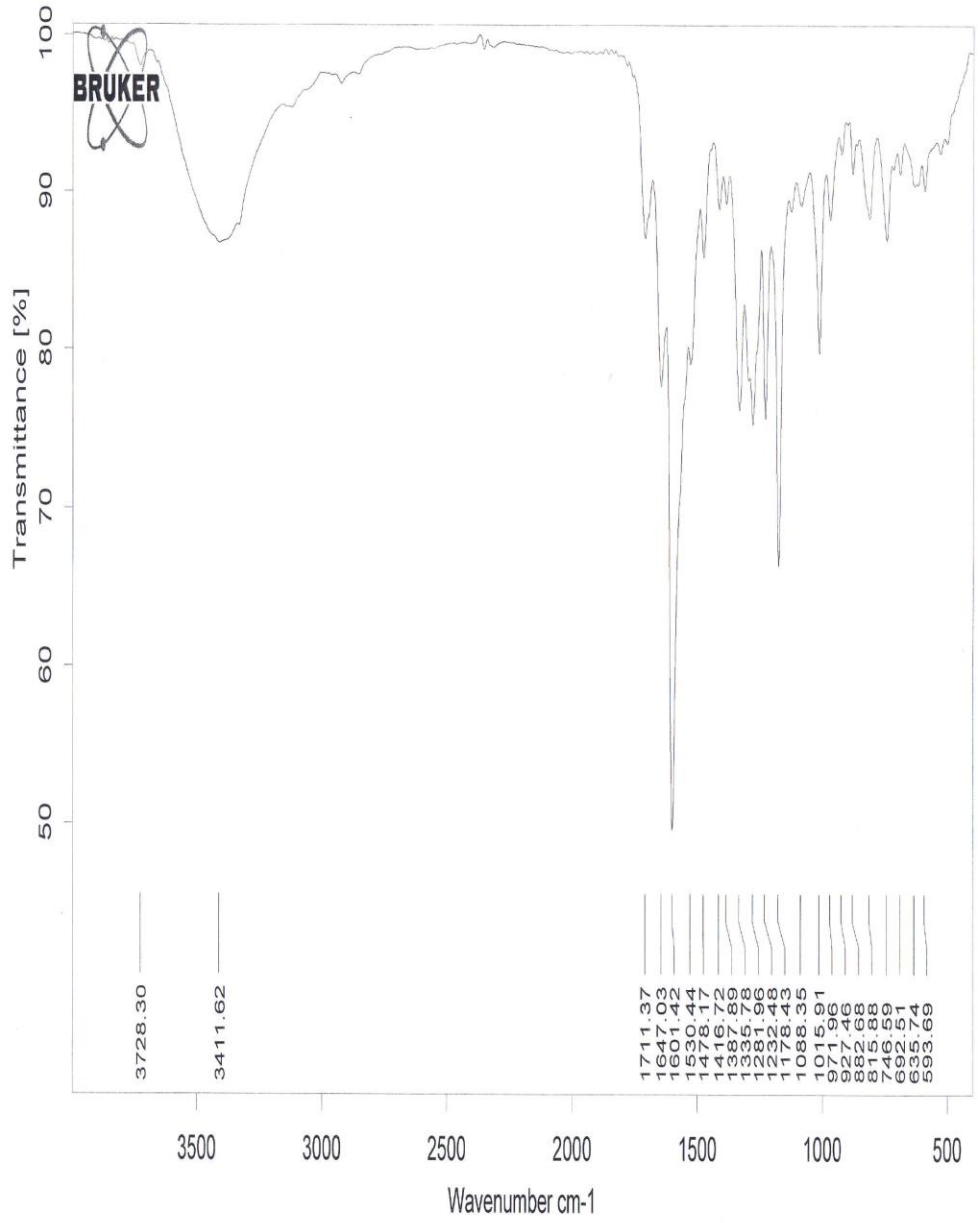
C:\Program Files\OPUS_65\MEAS\AM 13.0	7e	Sample Compartment	12/12/2018



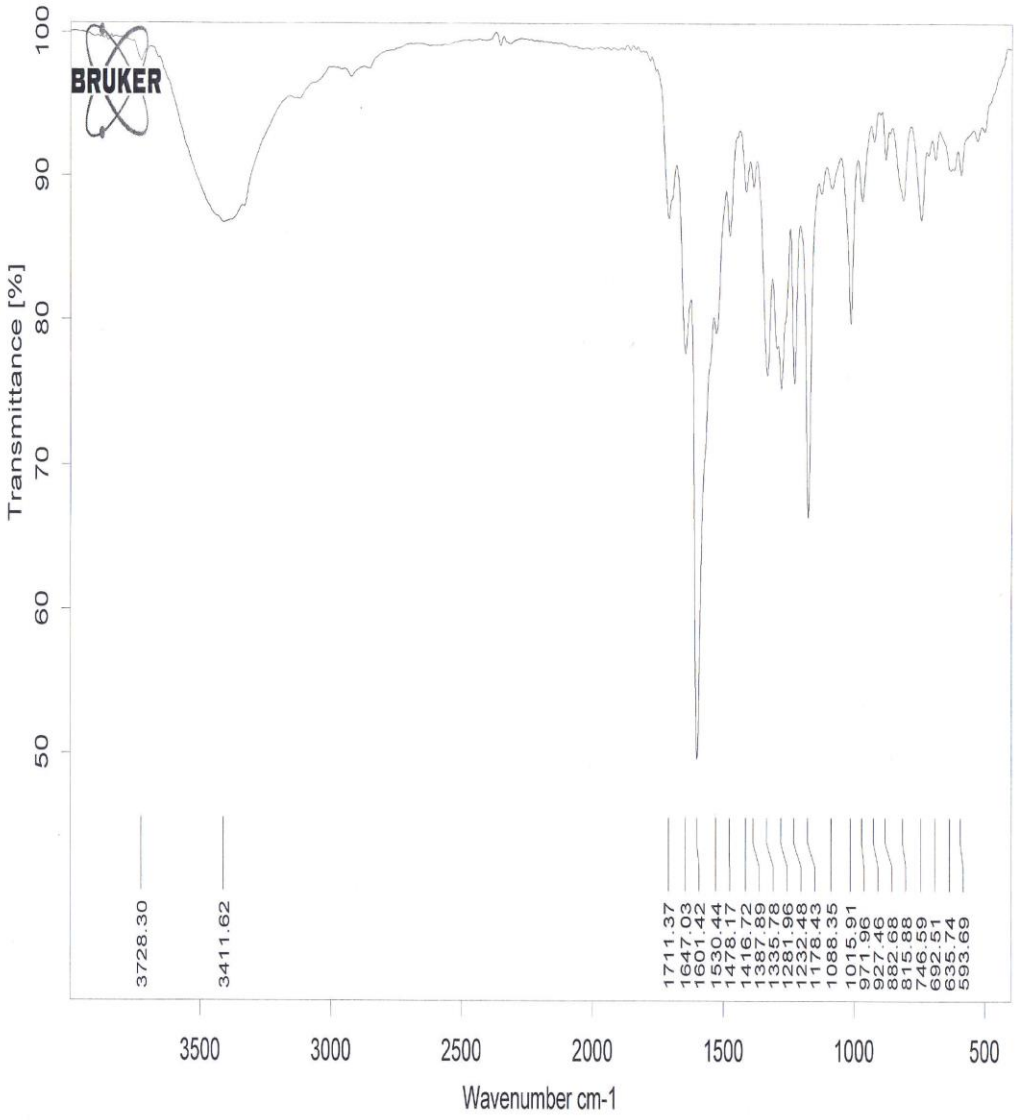
C:\Program Files\OPUS_65\MEAS\AM 14.0	7f	Sample Compartment	12/12/2018



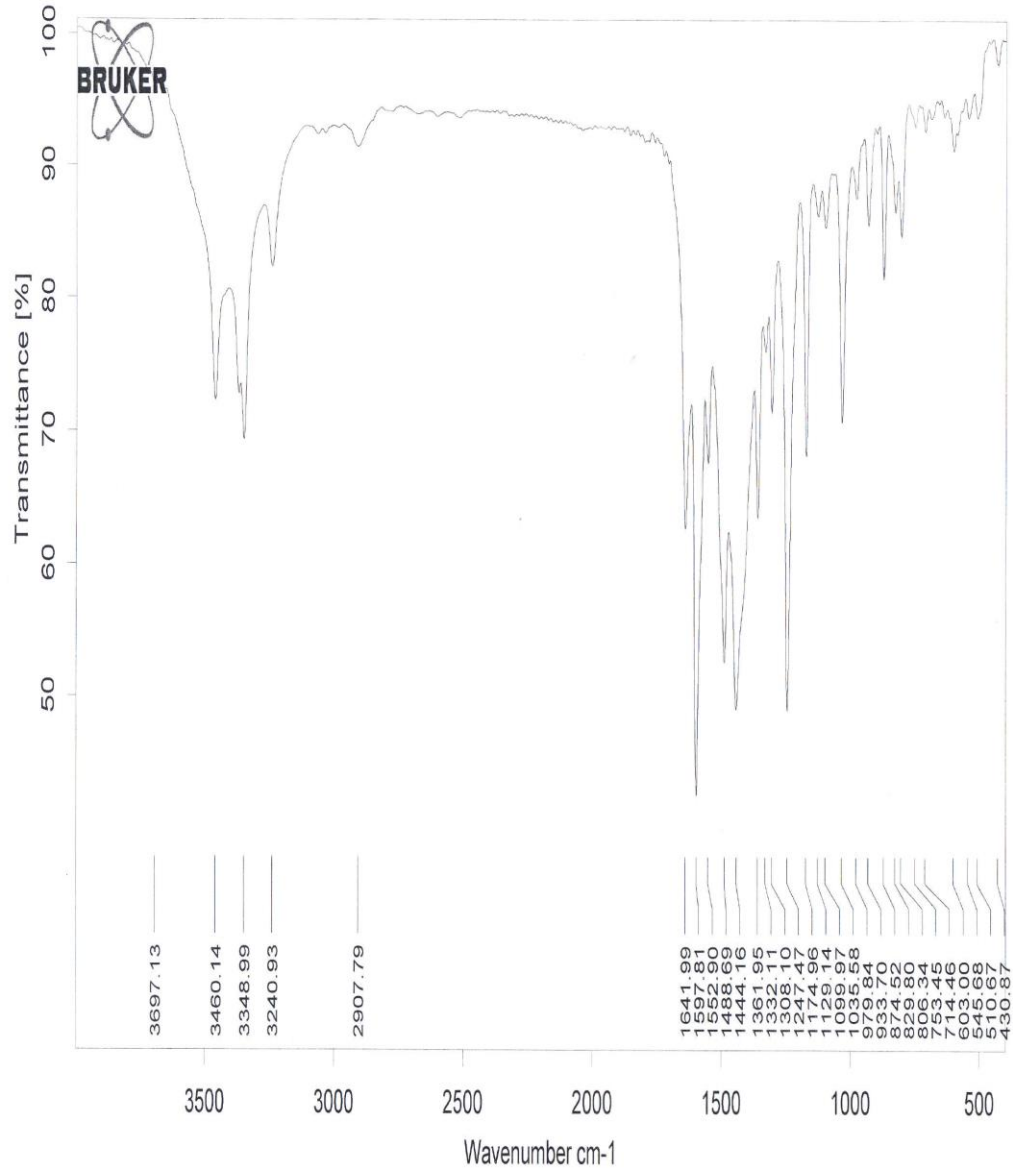
C:\Program Files\OPUS_65\MEAS\AM 15.0	7g	Sample Compartment	12/12/2018



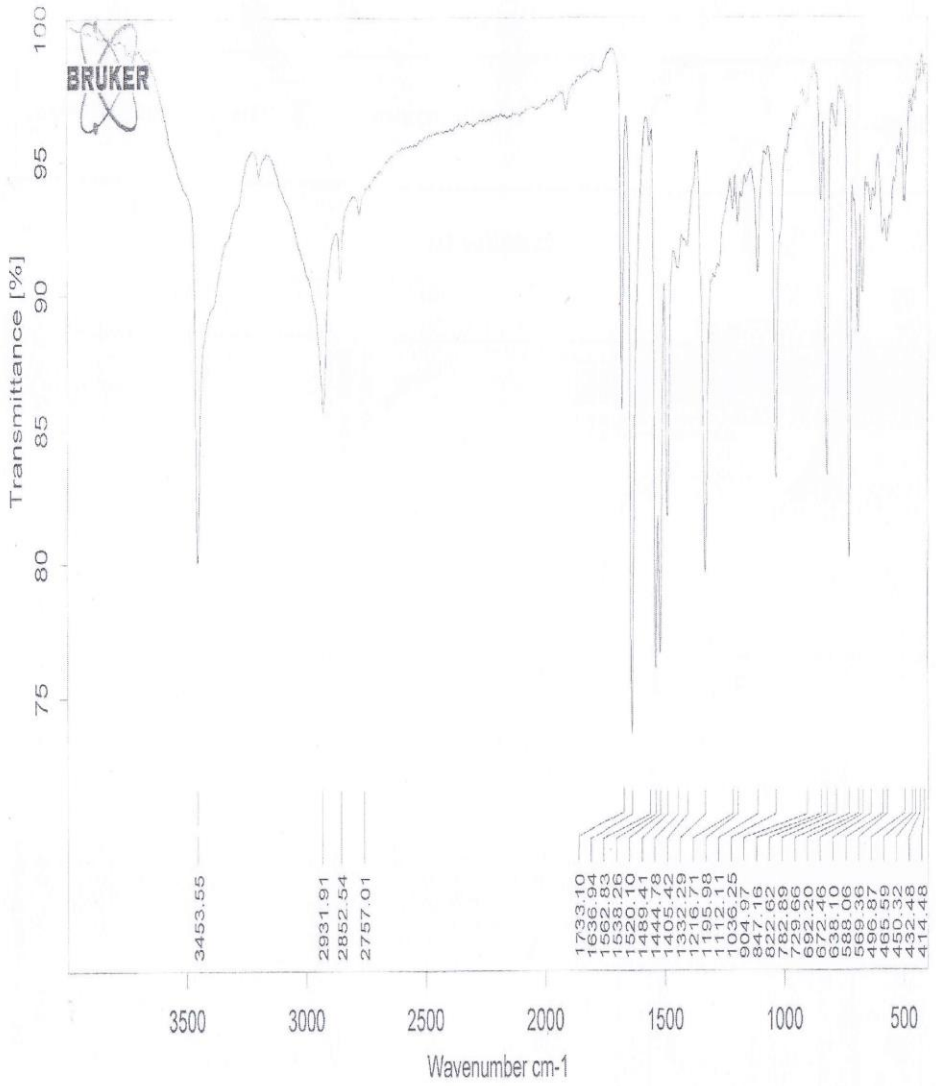
C:\Program Files\OPUS_65\MEAS\AM 16.0	7h	Sample Compartment	12/12/2018



C:\Program Files\OPUS_65\MEAS\AM 16.0	7h	Sample Compartment	12/12/2018

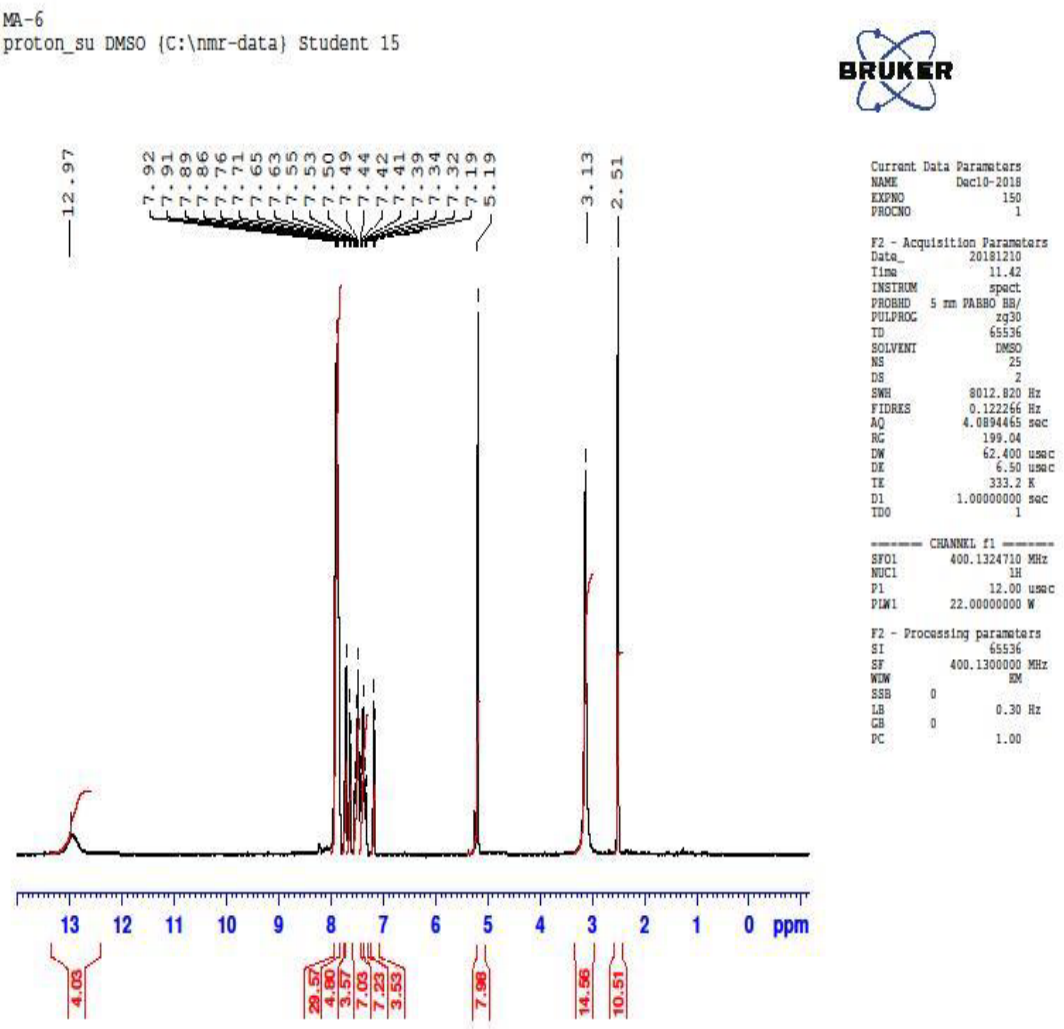


C:\Program Files\OPUS_65\MEAS\AM 17.0	7i	Sample Compartment	12/12/2018



C:\Program Files\OPUS_65\MEAS\AM16S 7j	Sample Compartment	14/05/2019

^{1}H NMR:


MA-6
proton_su DMSO (C:\nmr-data) Student 15
BRUKER
12.97
7.92
7.91
7.89
7.86
7.76
7.71
7.65
7.63
7.55
7.53
7.50
7.49
7.44
7.42
7.41
7.39
7.34
7.32
7.19
5.19
3.13
2.51
13 12 11 10 9 8 7 6 5 4 3 2 1 0 ppm
4.03
29.57
4.80
3.57
7.03
7.23
3.53
7.96
14.66
10.51
Current Data Parameters
NAME Dec10-2018
EXPNO 150
PROCNO 1
F2 - Acquisition Parameters
Date_ 20181210
Time 11.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
DW 62.400 usec
DE 6.50 usec
TE 333.2 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

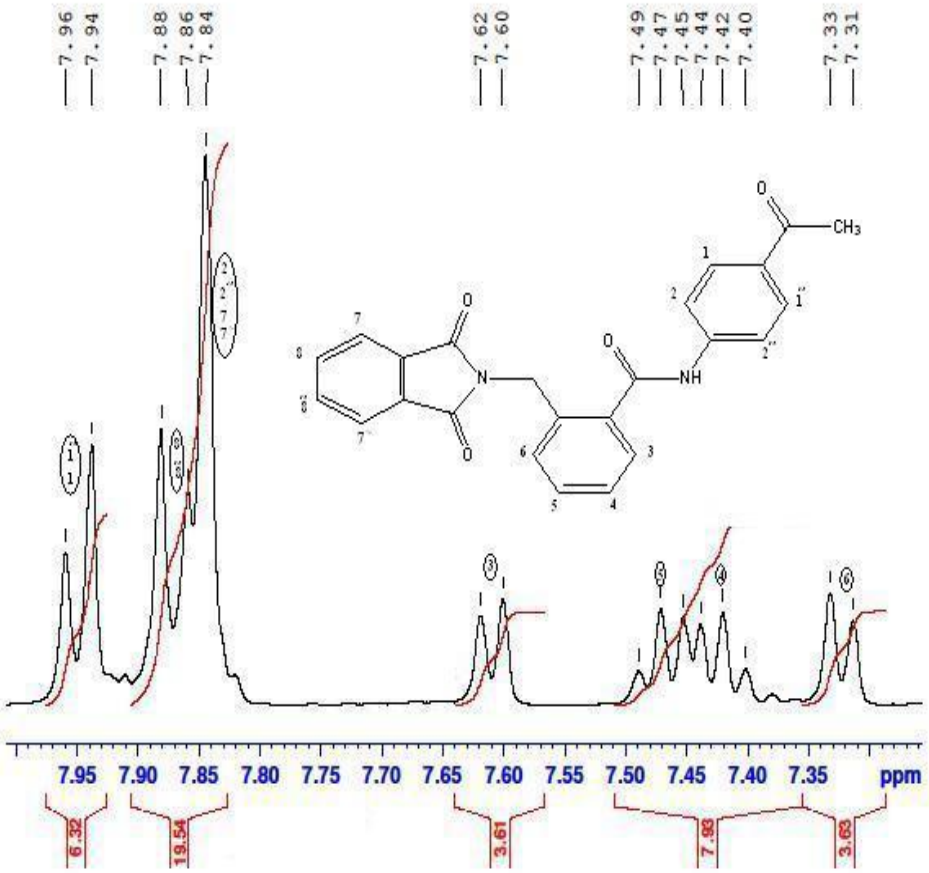
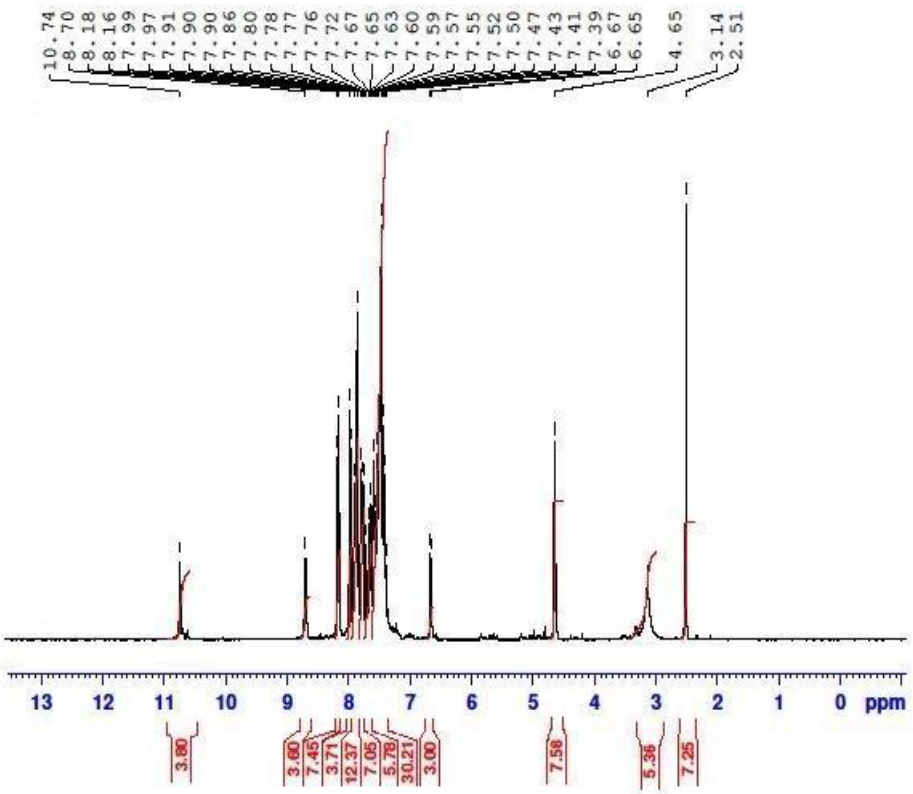


Fig. : Assignment of the aromatic protons in the ^{1}H NMR for compound 6

AM-7a
proton_su DMSO (C:\nmr-data) Student 5



BRUKER

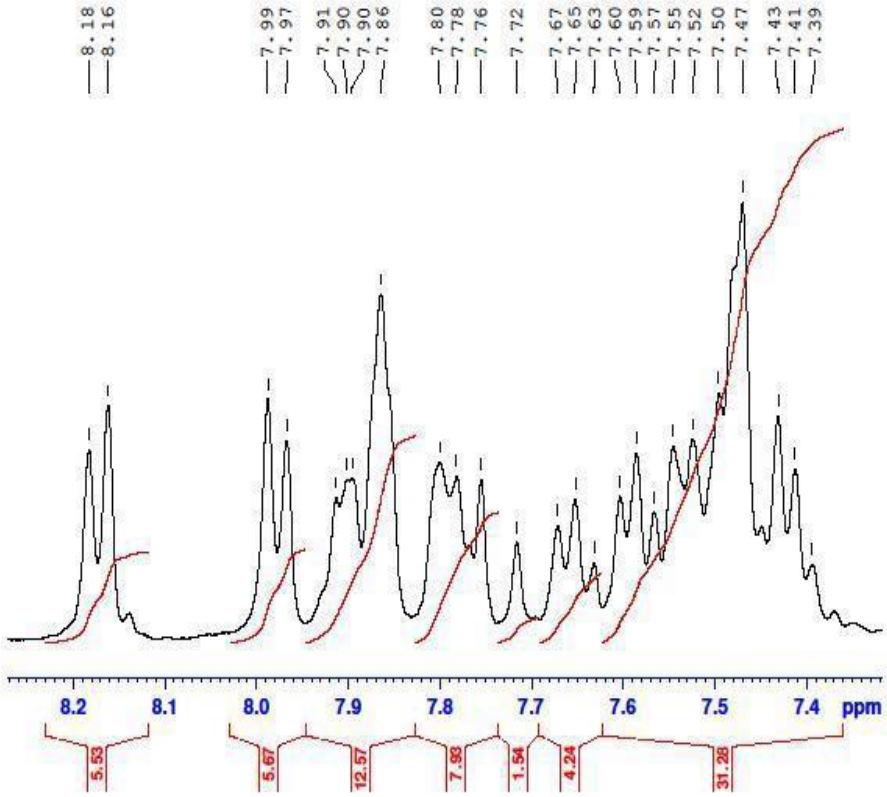
```
Current Data Parameters
NAME            Dac10-2018
EXPNO                   40
PROCNO                   1

F2 - Acquisition Parameters
Data_             20181210
Time                 10.44
INSTRUM              spect
PROBHD   5 mm PABBO BB/
PULPROG              zg30
TD                  65536
SOLVENT              DMSO
NS                      25
DS                       2
SWH              8012.820 Hz
FIDRES           0.122266 Hz
AQ               4.0894465 sec
RG                  199.04
DW                  62.400 usec
DE                   6.50 usec
TE                  333.2 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
```

AM-7a
proton_su DMSO {C:\nmr-data} Student 5



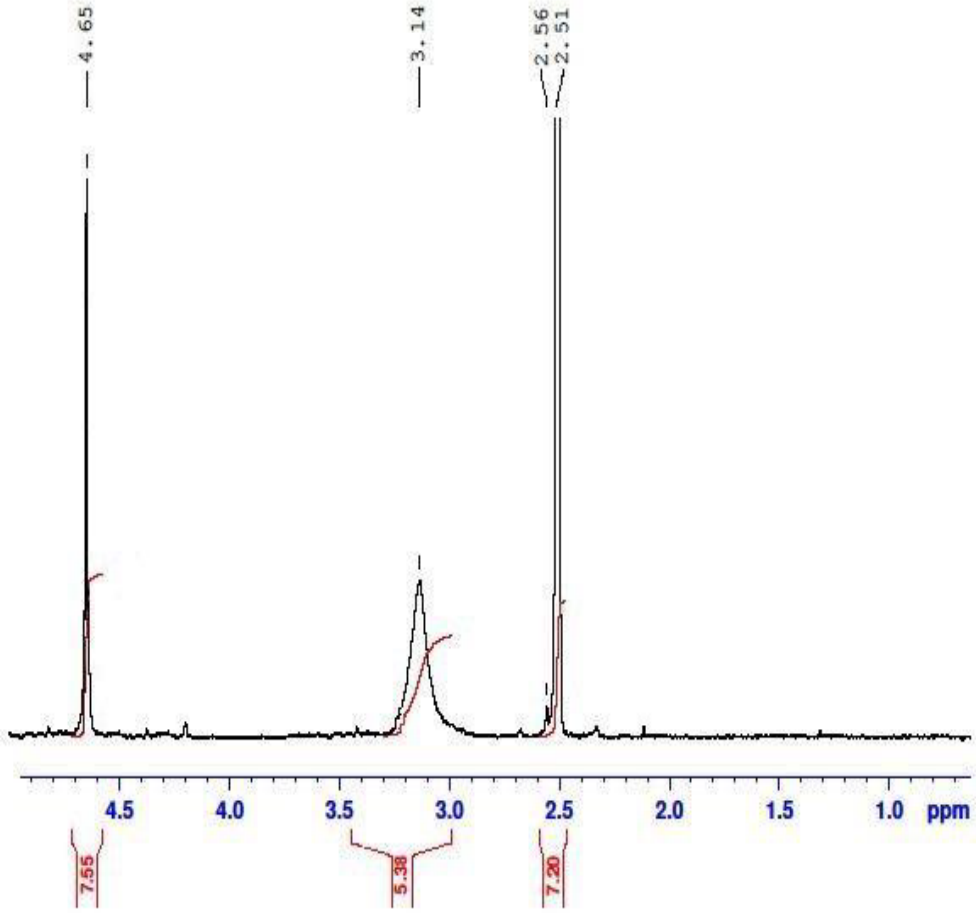

```
Current Data Parameters
NAME          Dac10-2018
EXPNO                 40
PROCNO                 1

F2 - Acquisition Parameters
Date_           20181210
Time              10.44
INSTRUM             spect
PROBHD   5 mm PABBO BB/
PULPROG             zg30
TD                 65536
SOLVENT             DMSO
NS                    25
DS                     2
SWH             8012.820 Hz
FIDRES          0.122266 Hz
AQ              4.0894465 sec
RG                 199.04
DW                62.400 usec
DE                 6.50 usec
TE                333.2 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
```

AM-7a
proton_su DMSO {C:\nmr-data} Student 5



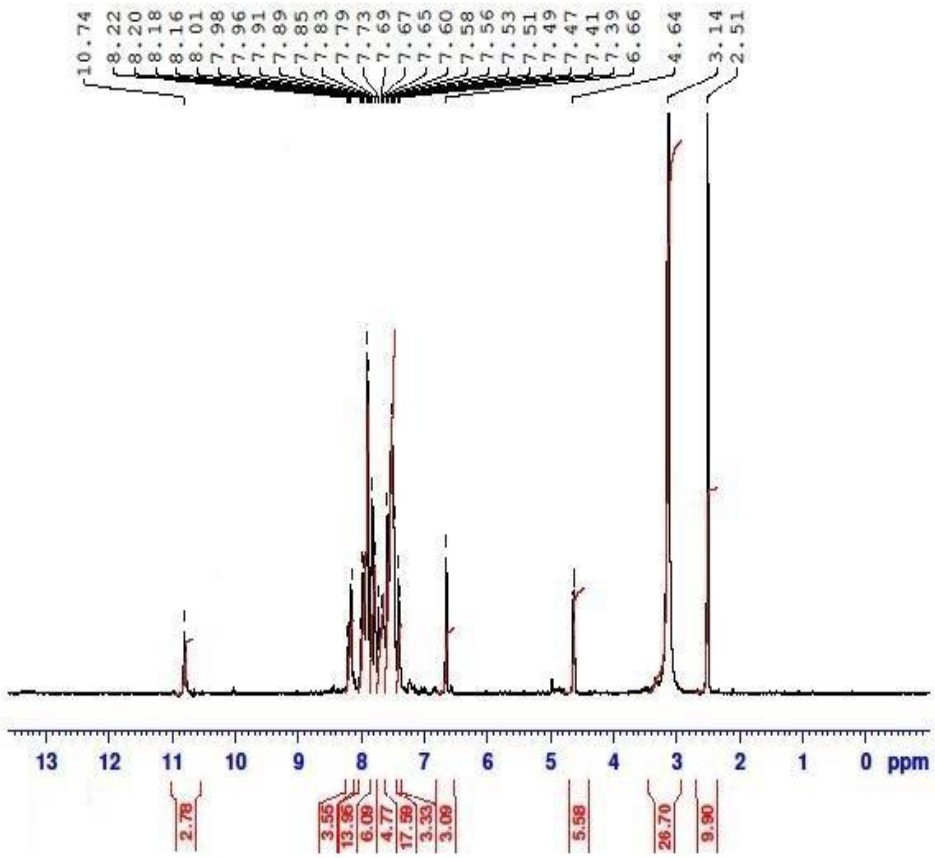

```
Current Data Parameters
NAME                 Dac10-2018
EXPNO                        40
PROCNO                        1

F2 - Acquisition Parameters
Data_                  20181210
Time                      10.44
INSTRUM                    spect
PROBHD     5 mm PABBO BB/
PULPROG                    zg30
TD                        65536
SOLVENT                    DMSO
NS                           25
DS                            2
SWH                    8012.820 Hz
FIDRES                 0.122266 Hz
AQ                     4.0894465 sec
RG                        199.04
DW                        62.400 usec
DE                         6.50 usec
TE                        333.2 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
```

AM-7b
proton_su DMSO (C:\nmr-data) Student 10



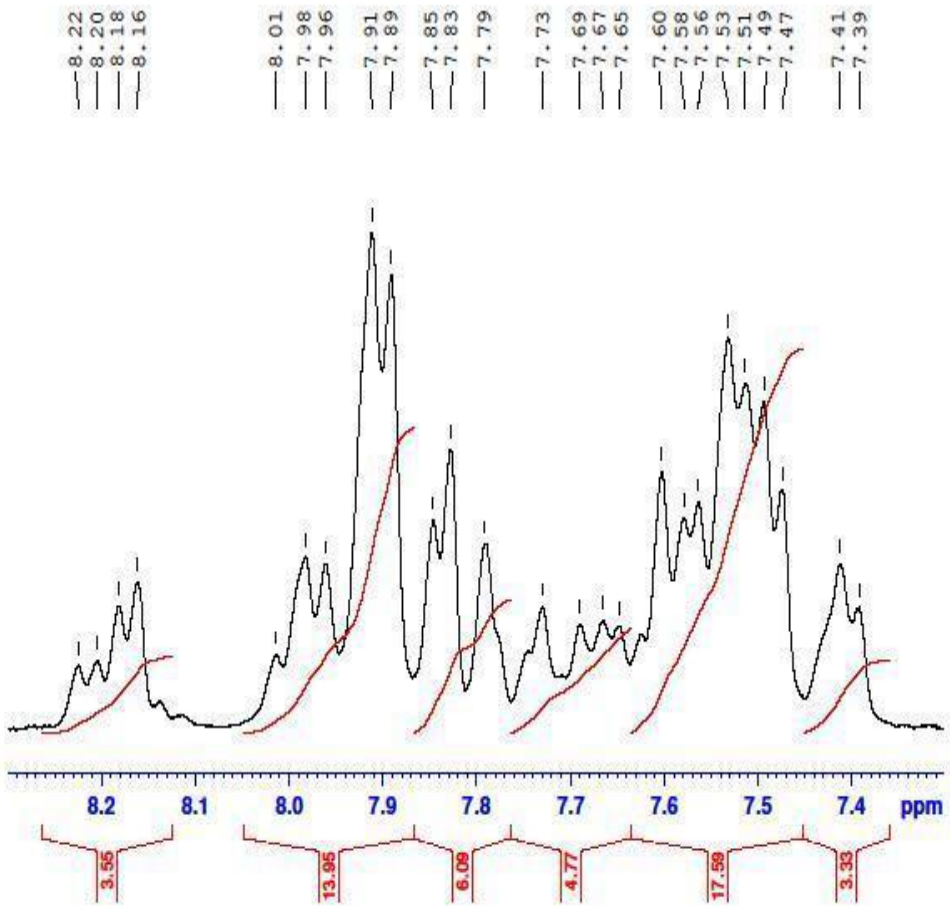
Current Data Parameters
NAME Dec10-2018
EXPNO 100
PROCNO 1

F2 - Acquisition Parameters
Data_ 20181210
Time 11.13
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
DW 62.400 usec
DE 6.50 usec
TE 333.2 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

AM-7b
proton_su DMSO (C:\nmr-data) Student 10



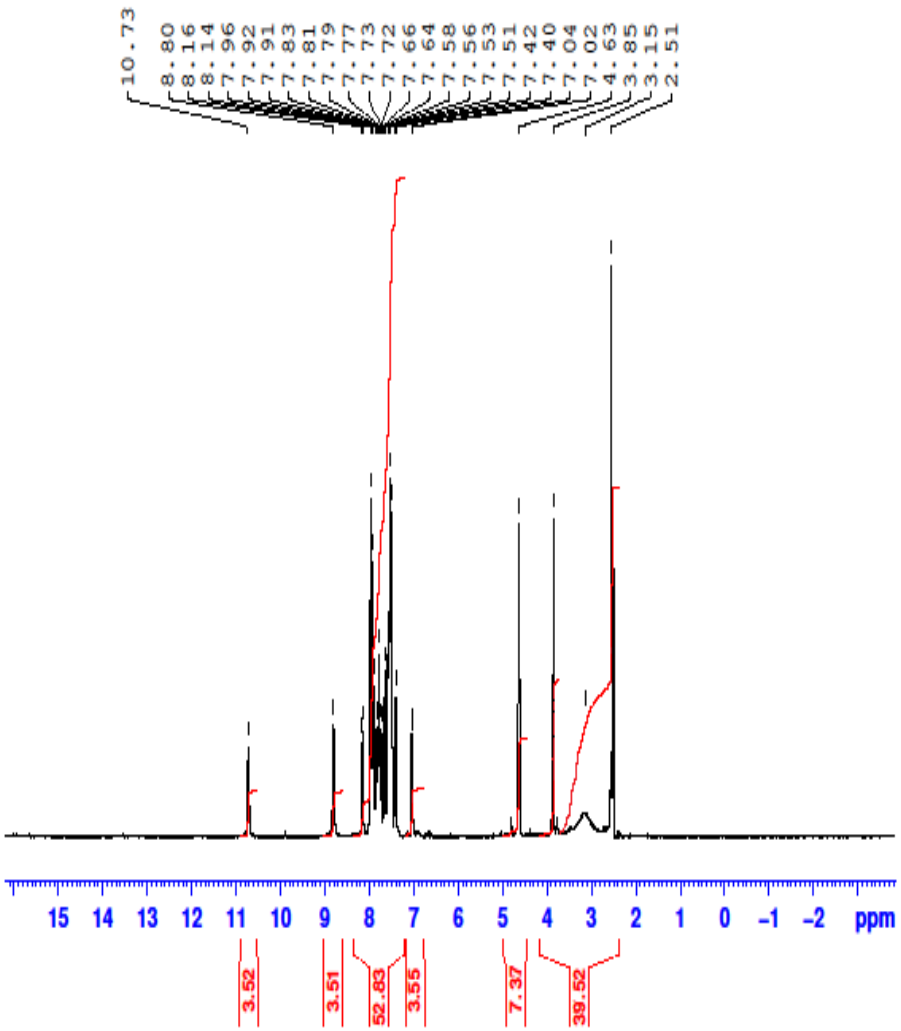

```
Current Data Parameters
NAME                  Dec10-2018
EXPNO                        100
PROCNO                         1

F2 - Acquisition Parameters
Date_                   20181210
Time                       11.13
INSTRUM                    spect
PROBHD     5 mm PABBO BB/
PULPROG                    zg30
TD                        65536
SOLVENT                    DMSO
NS                           25
DS                            2
SWH                    8012.820 Hz
FIDRES                 0.122266 Hz
AQ                     4.0894465 sec
RG                        199.04
DW                        62.400 usec
DE                         6.50 usec
TE                        333.2 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
```

AM-7c
proton_su DMSO (C:\nmr-data) Student 9



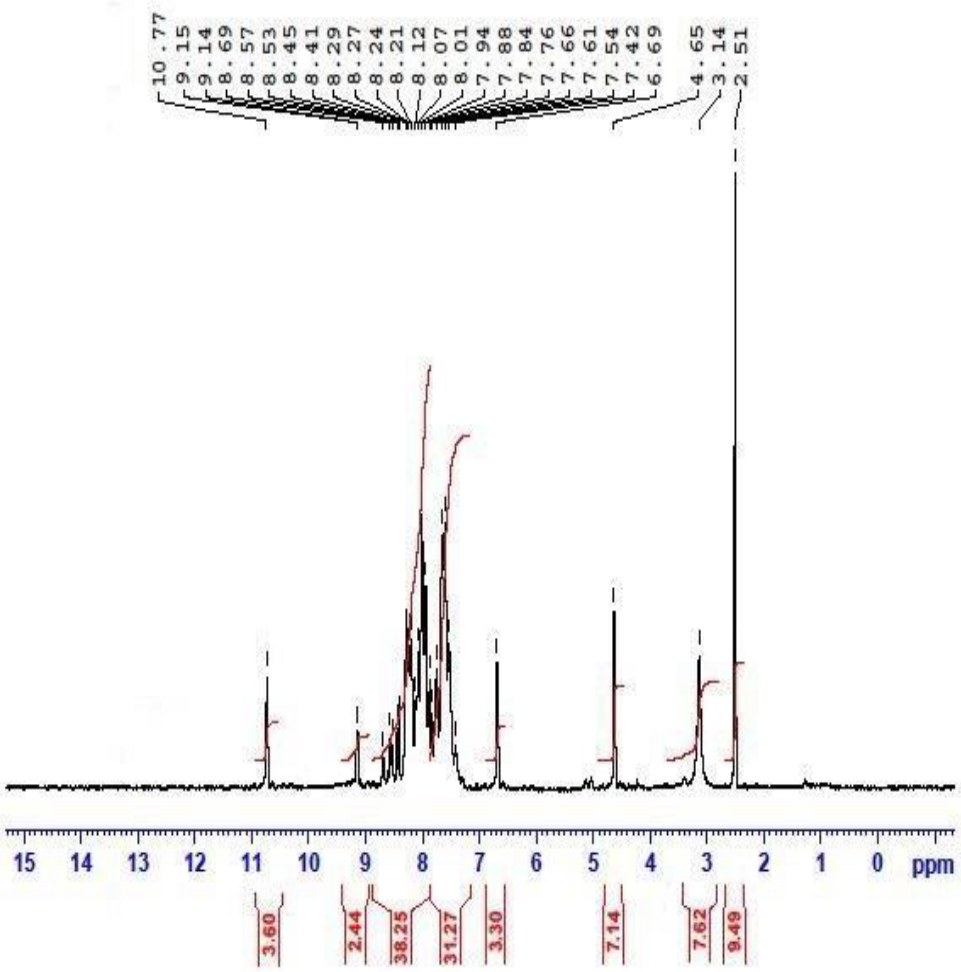
Current Data Parameters
NAME Dec10-2018
EXPNO 90
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181210
Time 11.08
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
DW 62.400 usec
DE 6.50 usec
TE 333.2 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

AM-7d
proton_su DMSO {C:\nmr-data} Student 20



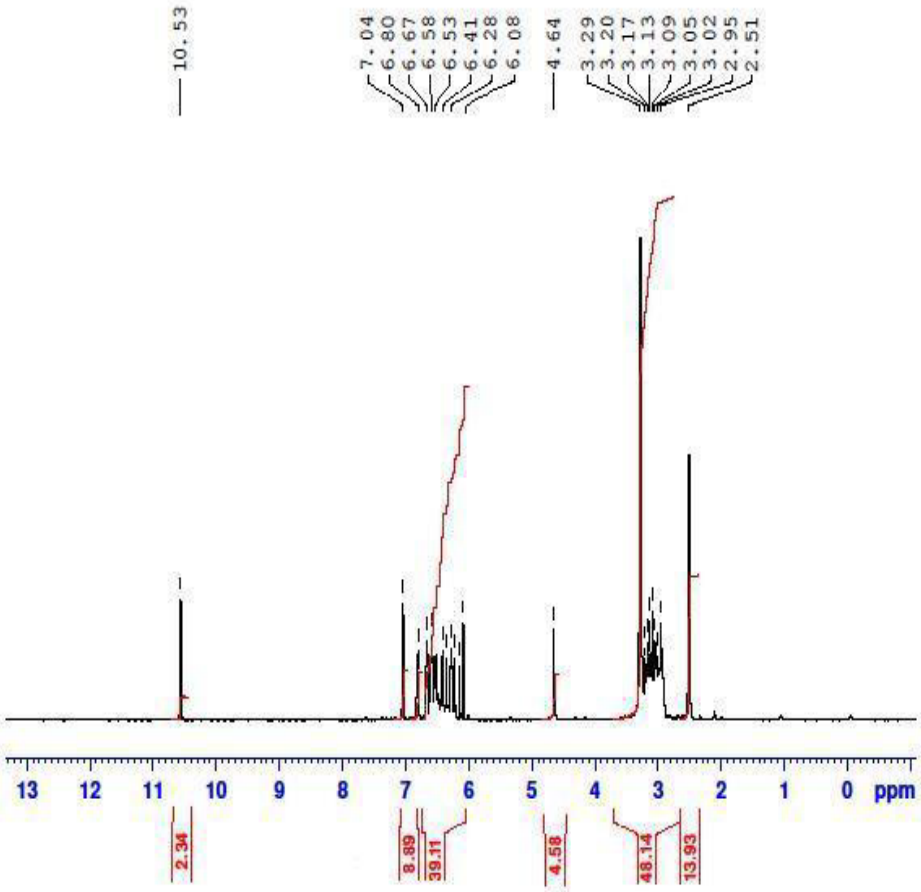

```
Current Data Parameters
NAME                  Dec10-2018
EXPNO                        200
PROCNO                         1

F2 - Acquisition Parameters
Date_                   20181210
Time                       12.12
INSTRUM                    spect
PROBHD     5 mm PABBO BB/
PULPROG                    zg30
TD                        65536
SOLVENT                    DMSO
NS                           25
DS                            2
SWH                    8012.820 Hz
FIDRES                 0.122266 Hz
AQ                     4.0894465 sec
RG                        199.04
DW                        62.400 usec
DE                         6.50 usec
TE                        333.2 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
```

A-7e
proton_su DMSO {C:\nmr-data} Student 15



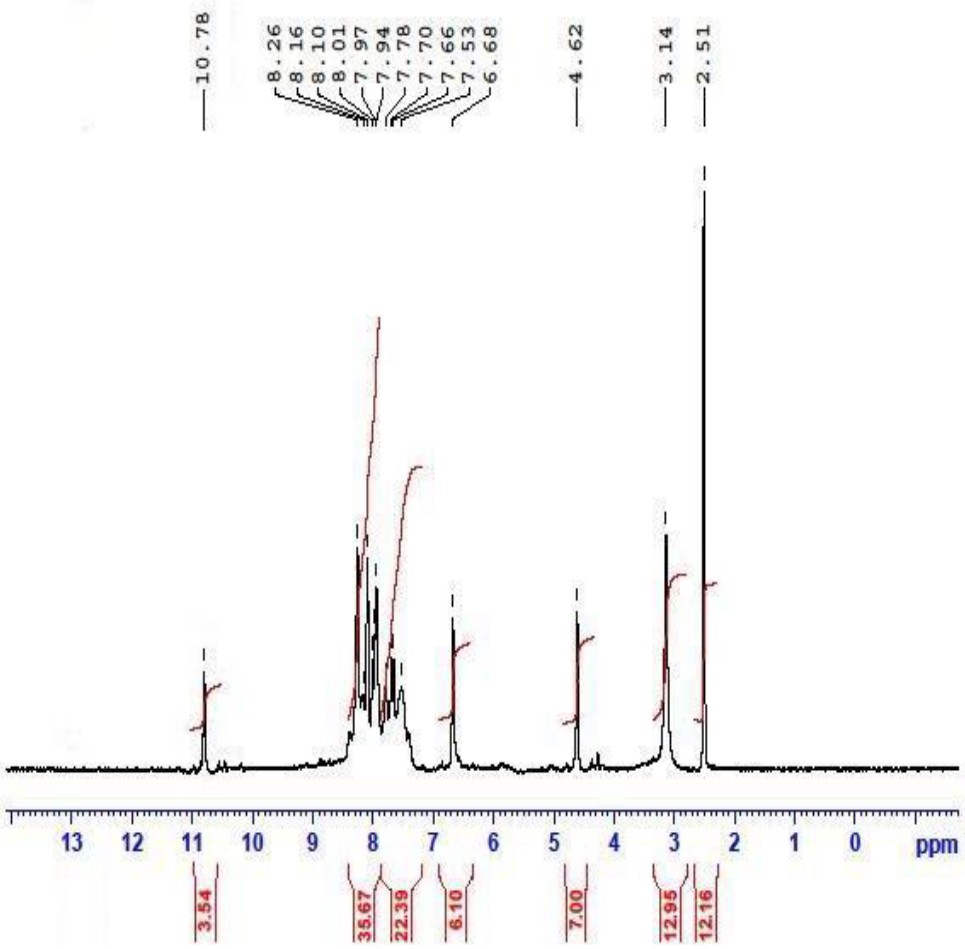

```
Current Data Parameters
NAME          Apr02-2019
EXPNO                300
PROCNO                 1

F2 - Acquisition Parameters
Data_           20190402
Time               14.04
INSTRUM            spect
PROBHD   5 mm PABBO BB/
PULPROG            zg30
TD                65536
SOLVENT            DMSO
NS                    25
DS                     2
SWH             8012.820 Hz
FIDRES          0.122266 Hz
AQ              4.0894465 sec
RG                199.04
DW                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
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
```

AM-7f
proton_su DMSO {C:\nmr-data} Student 3



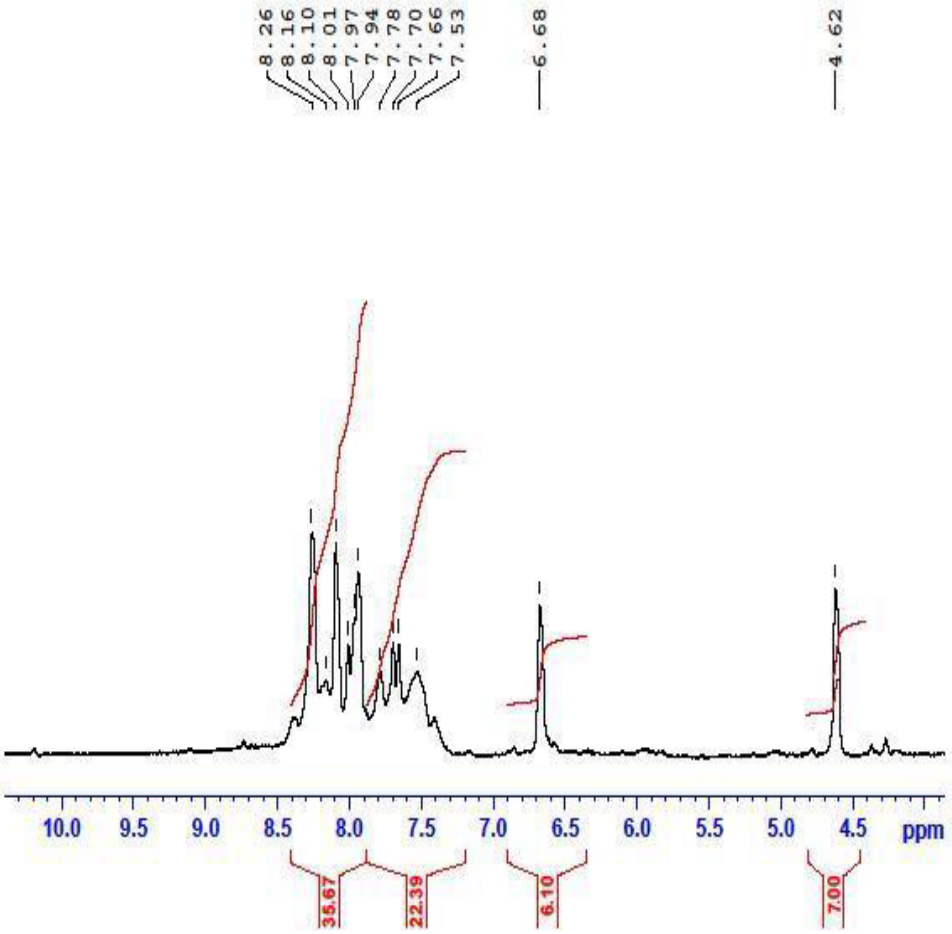

```
Current Data Parameters
NAME          Dec10-2018
EXPNO                270
PROCNO                 1

F2 - Acquisition Parameters
Date_           20181210
Time               12.52
INSTRUM            spect
PROBHD   5 mm PABBO BB/
PULPROG            zg30
TD                65536
SOLVENT            DMSO
NS                    25
DS                     2
SWH             8012.820 Hz
FIDRES          0.122266 Hz
AQ              4.0894465 sec
RG                199.04
DW                62.400 usec
DE                 6.50 usec
TE                333.2 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
```

AM-7f
proton_su DMSO {C:\nmr-data} Student 3



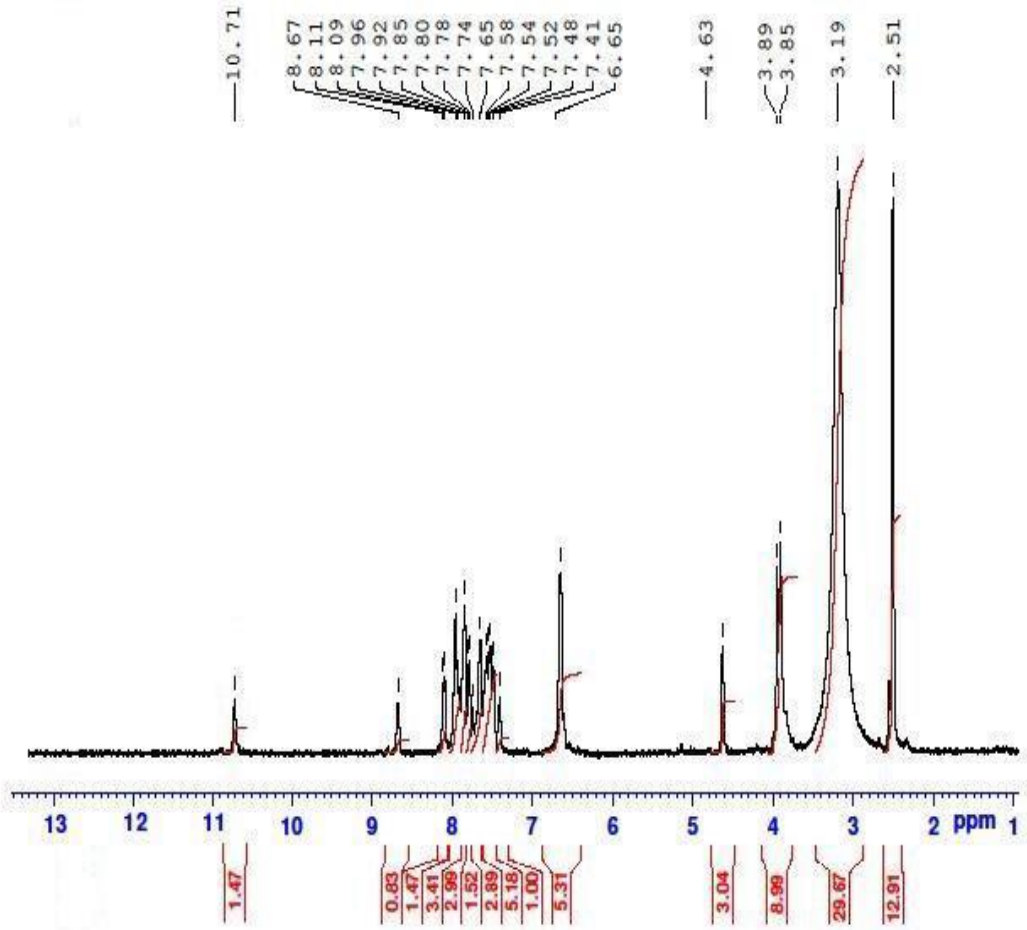

```
Current Data Parameters
NAME          Dec10-2018
EXPNO                270
PROCNO                 1

F2 - Acquisition Parameters
Date_           20181210
Time               12.52
INSTRUM            spect
PROBHD   5 mm PABBO BB/
PULPROG             zg30
TD                 65536
SOLVENT             DMSO
NS                    25
DS                     2
SWH             8012.820 Hz
FIDRES          0.122266 Hz
AQ              4.0894465 sec
RG                 199.04
DW                62.400 usec
DE                 6.50 usec
TE                333.2 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
```

AM-7g
proton_su DMSO (C:\nmr-data) Student 12



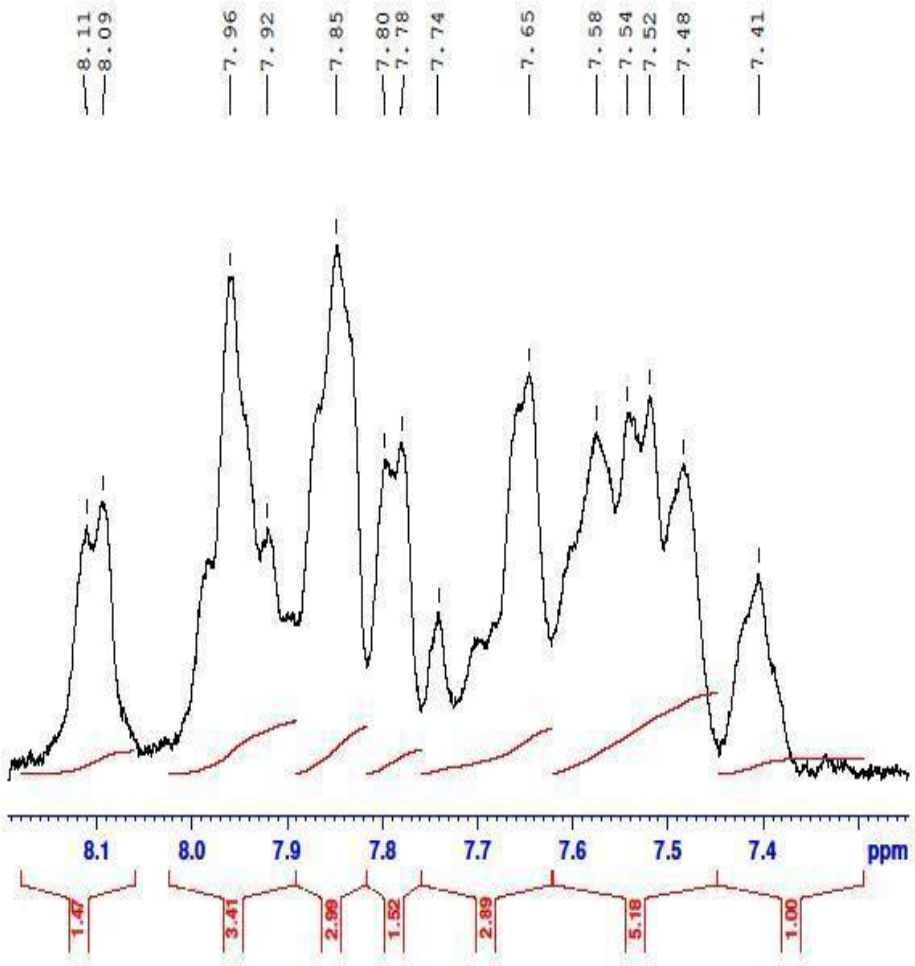

```
Current Data Parameters
NAME            Dec10-2018
EXPNO                  120
PROCNO                   1

F2 - Acquisition Parameters
Data_             20181210
Time                 11.25
INSTRUM              spect
PROBHD   5 mm PABBO BB/
PULPROG              zg30
TD                  65536
SOLVENT              DMSO
NS                     25
DS                      2
SWH               8012.820 Hz
FIDRES               0.122266 Hz
AQ                4.0894465 sec
RG                   199.04
DW                  62.400 usec
DE                   6.50 usec
TE                  333.2 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
```

AM-7g
proton_su DMSO {C:\nmr-data} Student 12



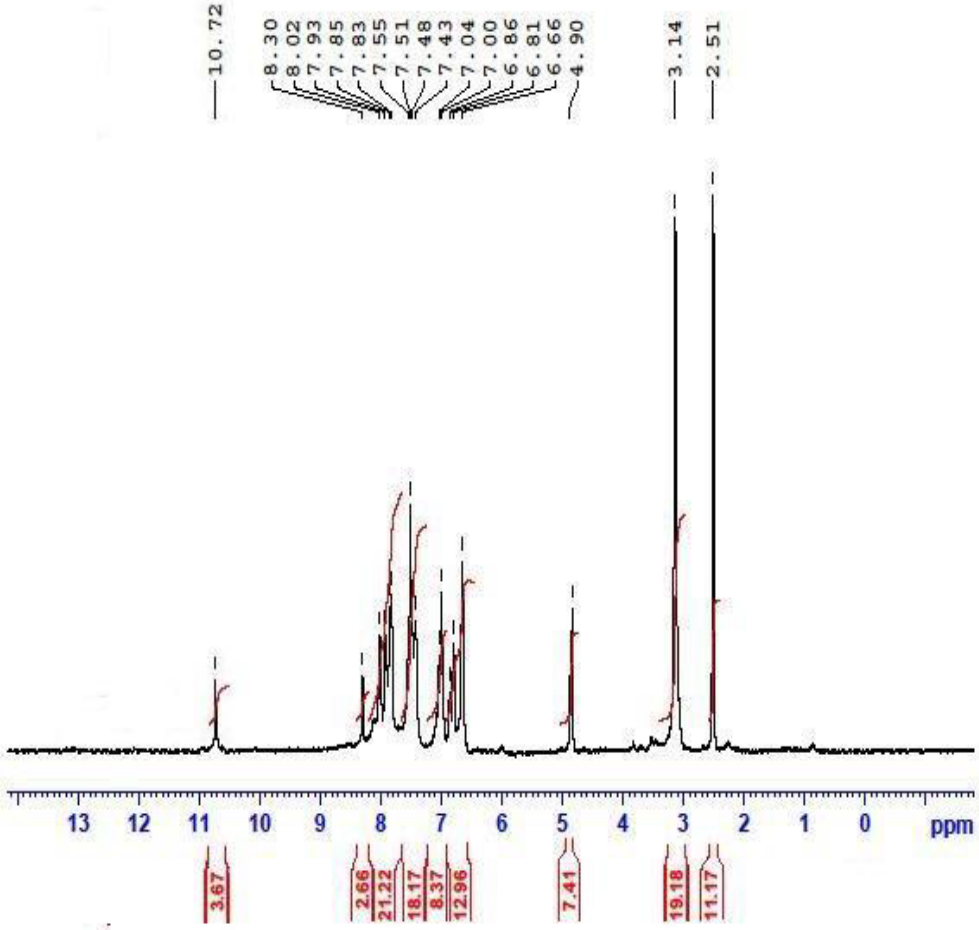
Current Data Parameters
NAME Dec10-2018
EXPNO 120
PROCNO 1

F2 - Acquisition Parameters
Data_ 20181210
Time 11.25
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
DW 62.400 usec
DE 6.50 usec
TE 333.2 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

AM-7h
proton_su DMSO {C:\nmr-data} Student 17



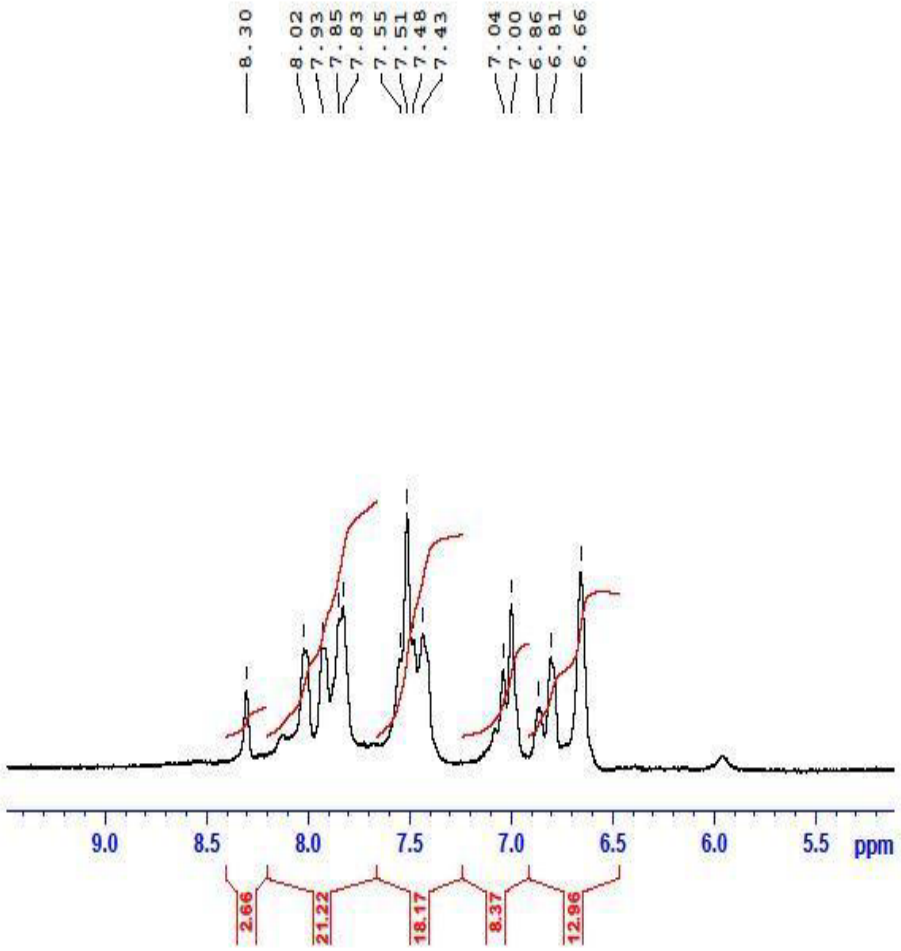
Current Data Parameters
NAME Dec10-2018
EXPNO 170
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181210
Time 11.54
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
DW 62.400 usec
DE 6.50 usec
TE 333.2 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

AM-7h
proton_su DMSO {C:\nmr-data} Student 17



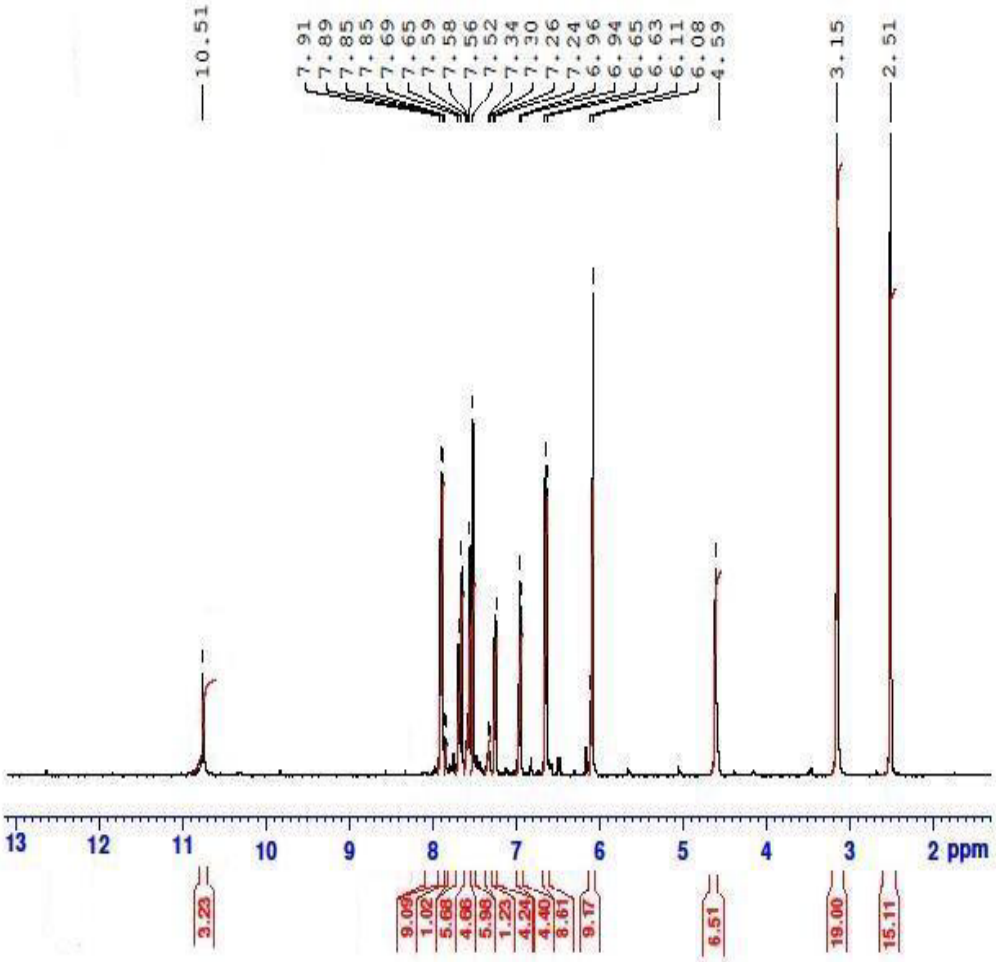

```
Current Data Parameters
NAME          Dec10-2018
EXPNO                170
PROCNO                 1

F2 - Acquisition Parameters
Date_           20181210
Time               11.54
INSTRUM            spect
PROBHD   5 mm PABBO BB/
PULPROG            zg30
TD                65536
SOLVENT            DMSO
NS                    25
DS                     2
SWH            8012.820 Hz
FIDRES         0.122266 Hz
AQ             4.0894465 sec
RG                199.04
DW                62.400 usec
DE                 6.50 usec
TE                333.2 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
```

AM-7i
proton_su DMSO (C:\nmr-data) Student 3



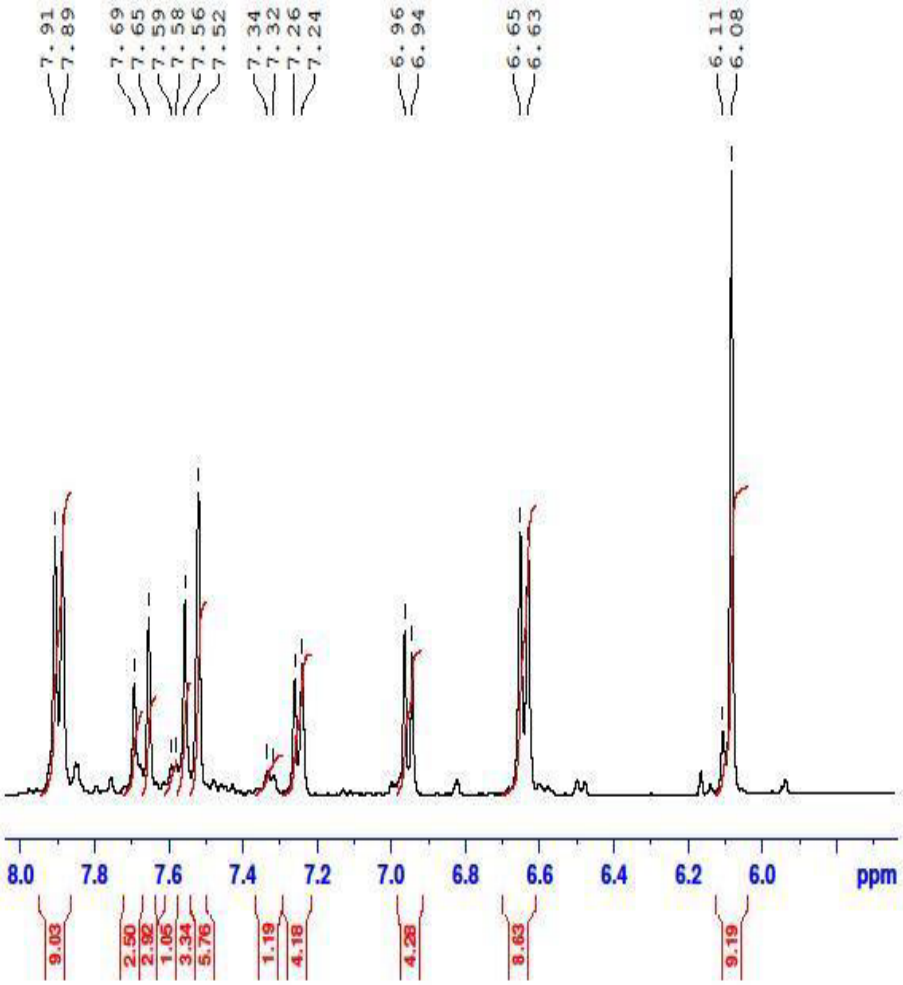
Current Data Parameters
NAME Dec10-2018
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181210
Time 10.32
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
DW 62.400 usec
DE 6.50 usec
TE 331.4 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

AM-7i
proton_su DMSO (C:\nmr-data) Student 3



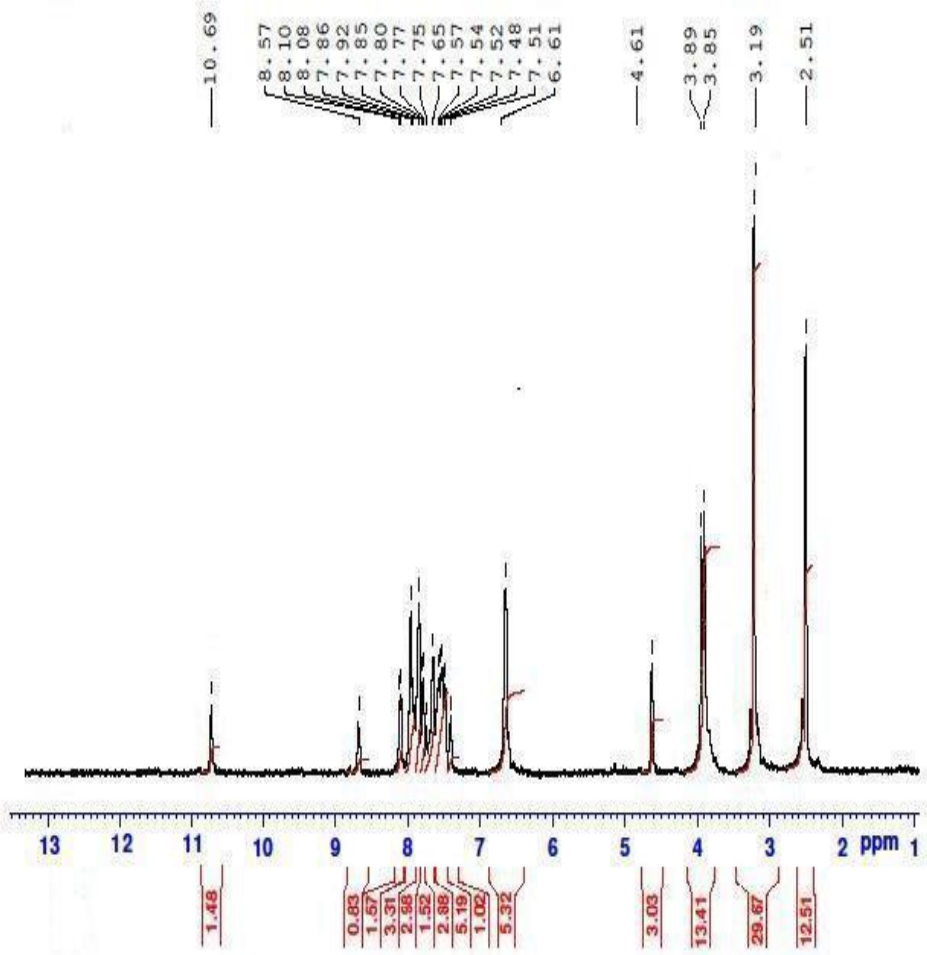
Current Data Parameters
NAME Dac10-2018
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181210
Time 10.32
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 25
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 199.04
DW 62.400 usec
DE 6.50 usec
TE 331.4 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

AM-7j
proton_su DMSO (C:\nmr-data) Student 12




```
Current Data Parameters
NAME                 Dac10-2018
EXPNO                       120
PROCNO                        1

F2 - Acquisition Parameters
Date_               20181210
Time                    11.25
INSTRUM                 spect
PROBHD   5 mm PABBO BB/
PULPROG                 zg30
TD                     65536
SOLVENT                 DMSO
NS                        25
DS                         2
SWH                 8012.820 Hz
FIDRES              0.122266 Hz
AQ                  4.0894465 sec
RG                     199.04
DW                   62.400 usec
DE                    6.50 usec
TE                   333.2 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
```

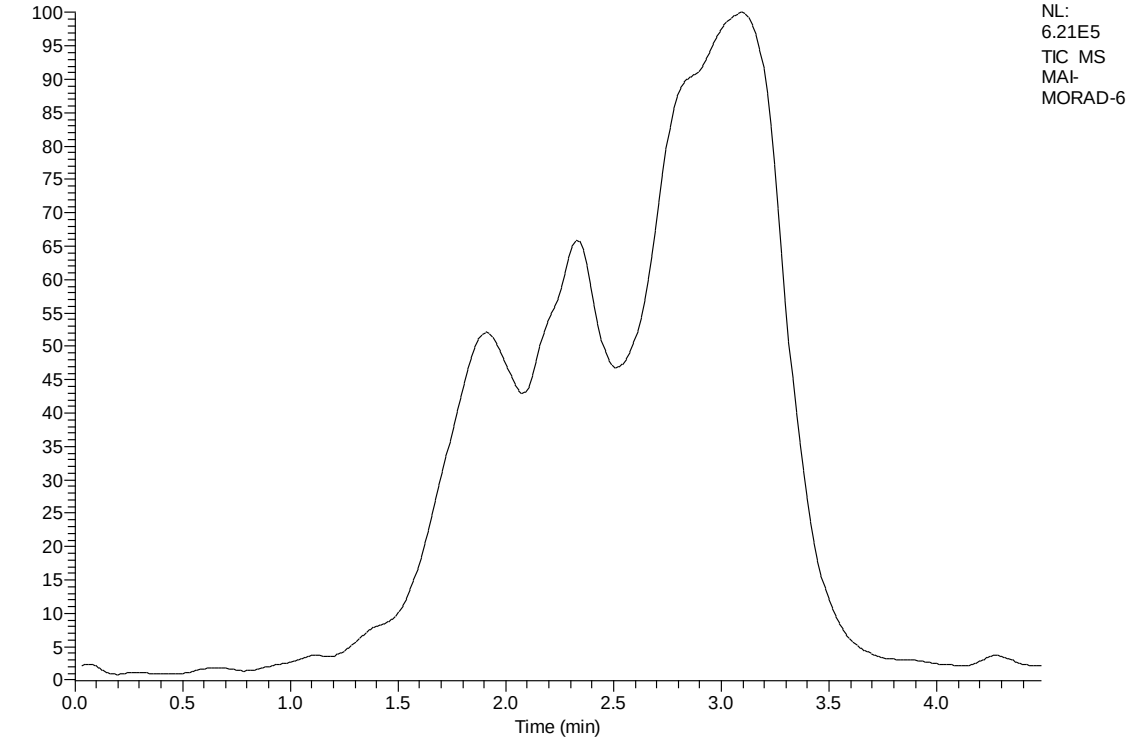
Mass spectroscopy

C:\Xcalibur\data\S\MAI-MORAD-6 13-May-19 1:51:15 PM

THE OGY AND BIOTECHNOLOGY

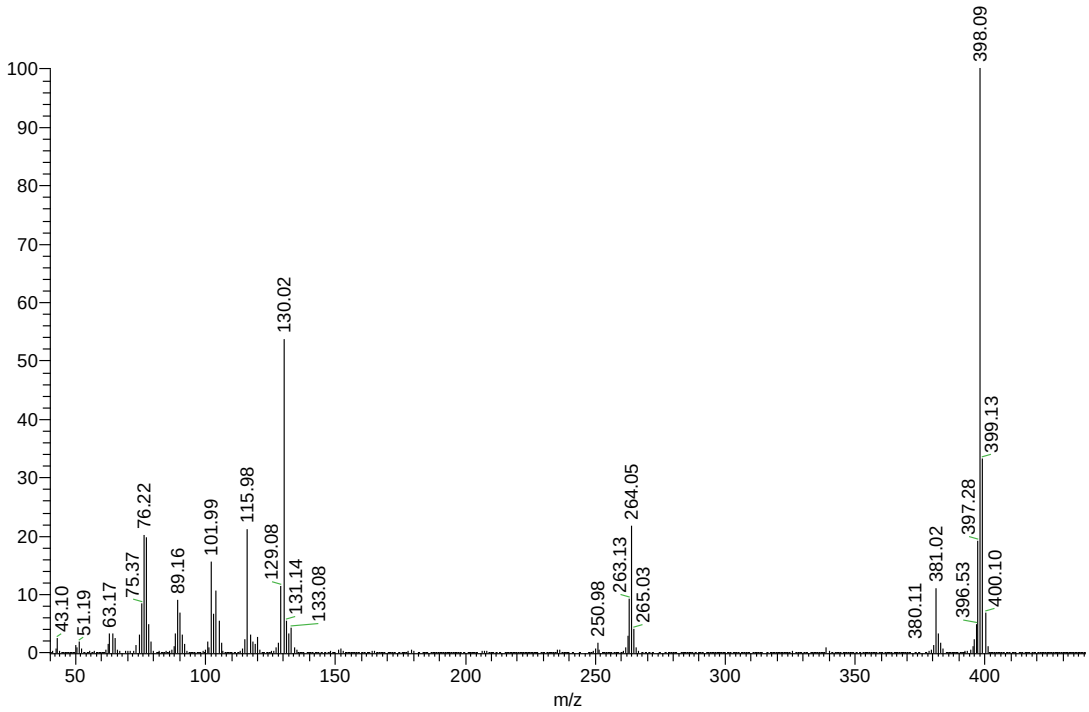
AZH

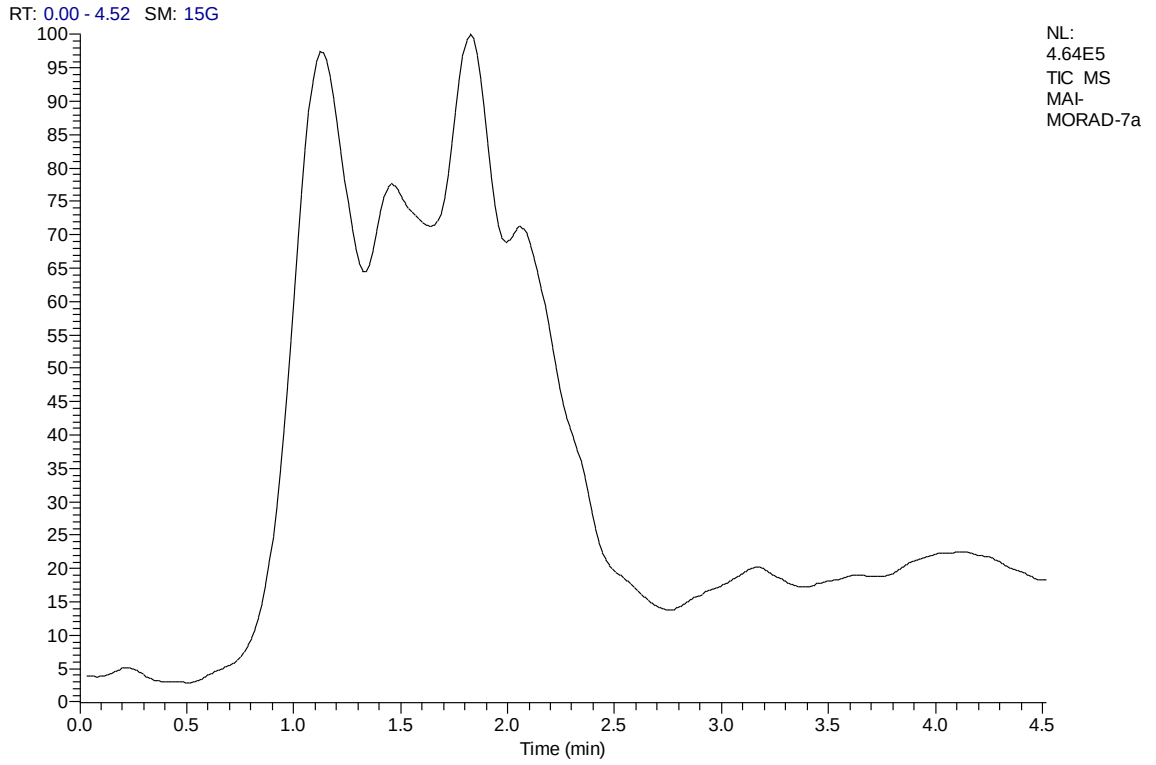
RT: 0.00 - 4.49 SM: 15G



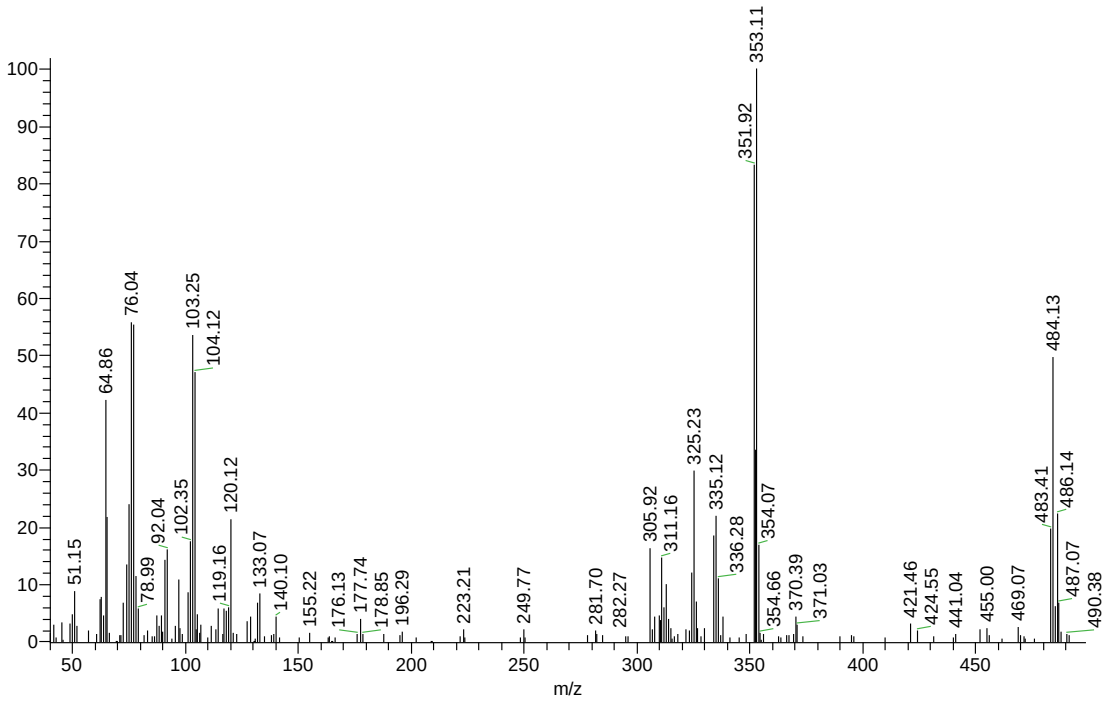
MAI-MORAD-6 #161-198 RT: 2.71-3.33 AV: 38 SB: 2 4.49 , 4.49 NL: 9.69E4

T: {0,0} + c EI Full ms [40.00-1000.00]

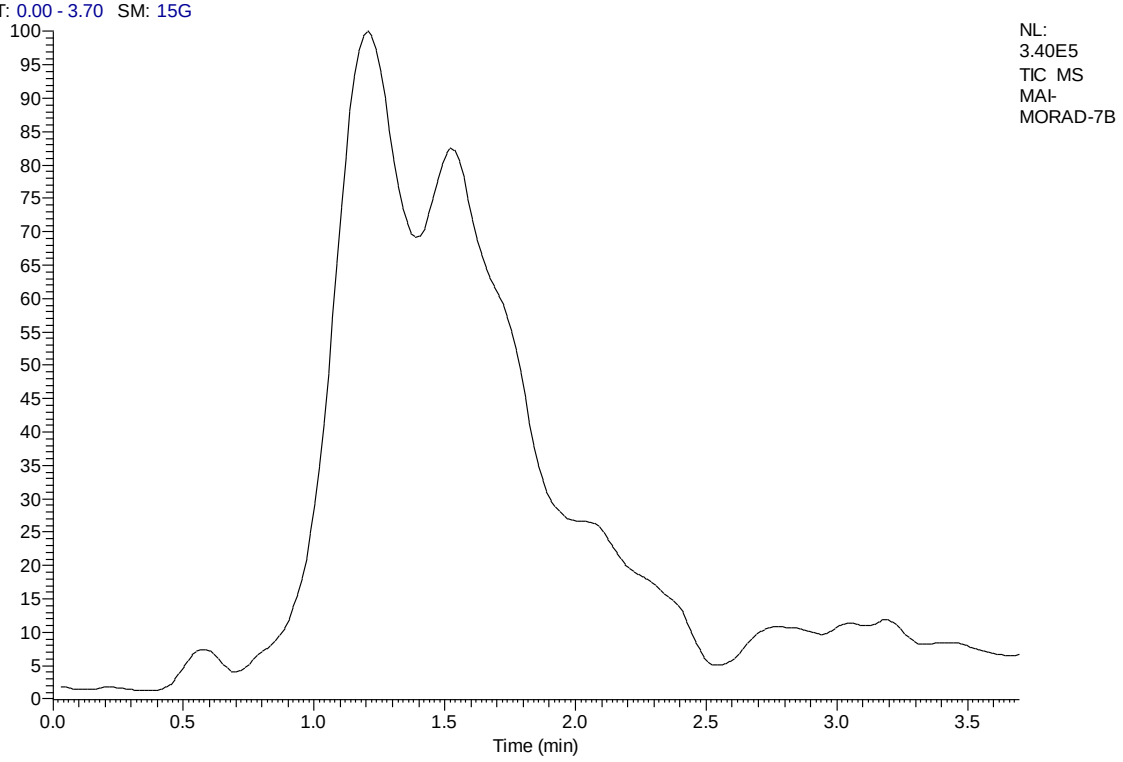




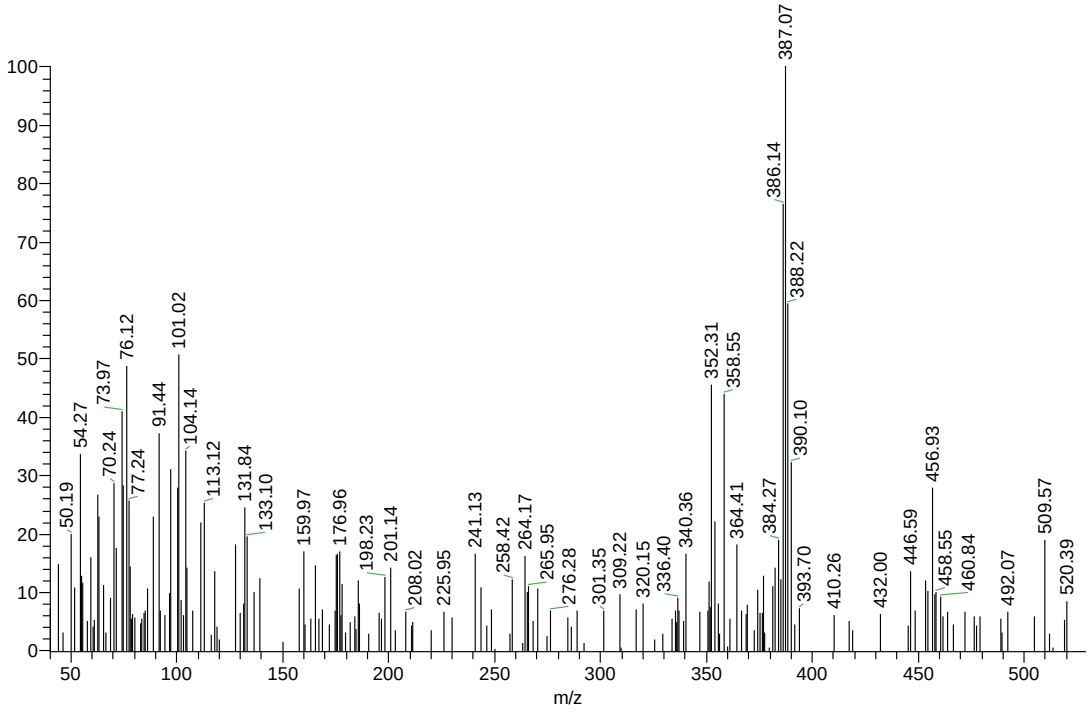
MAI-MORAD-7a #123 RT: 2.08 AV: 1 SB: 2 4.52 , 4.52 NL: 1.79E4
T: {0,0} + c EI Full ms [40.00-1000.00]

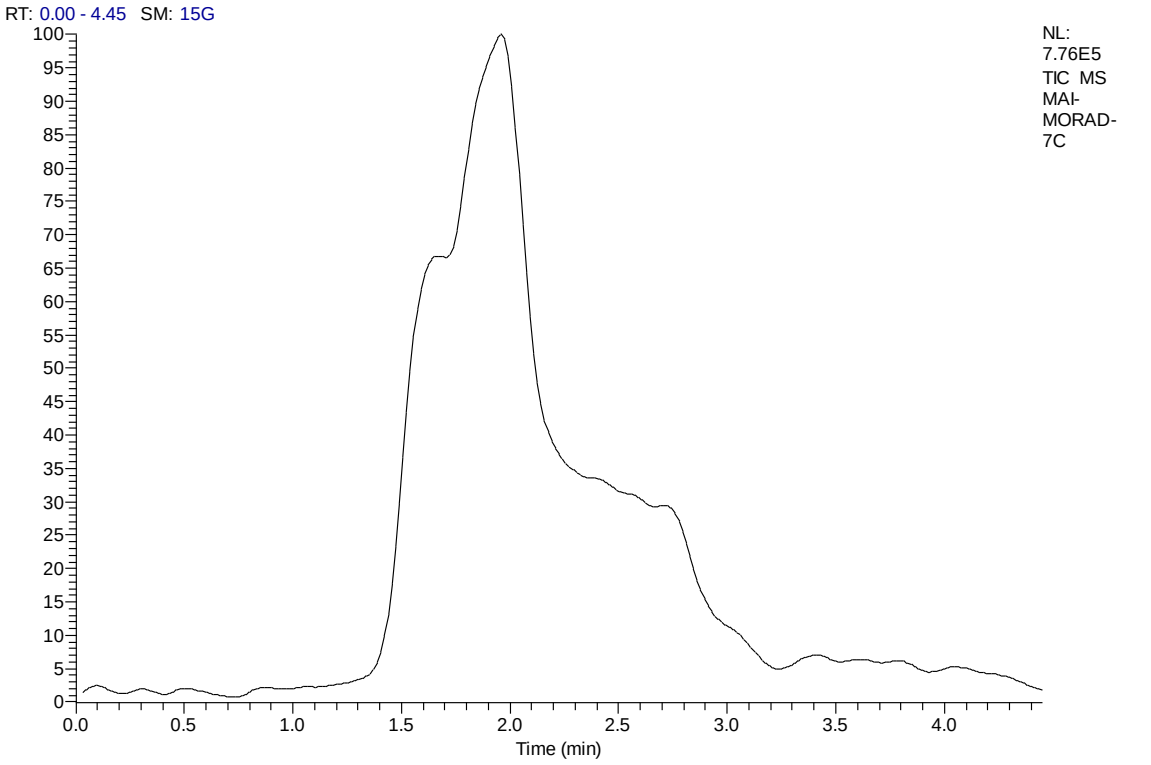


RT: 0.00 - 3.70 SM: 15G

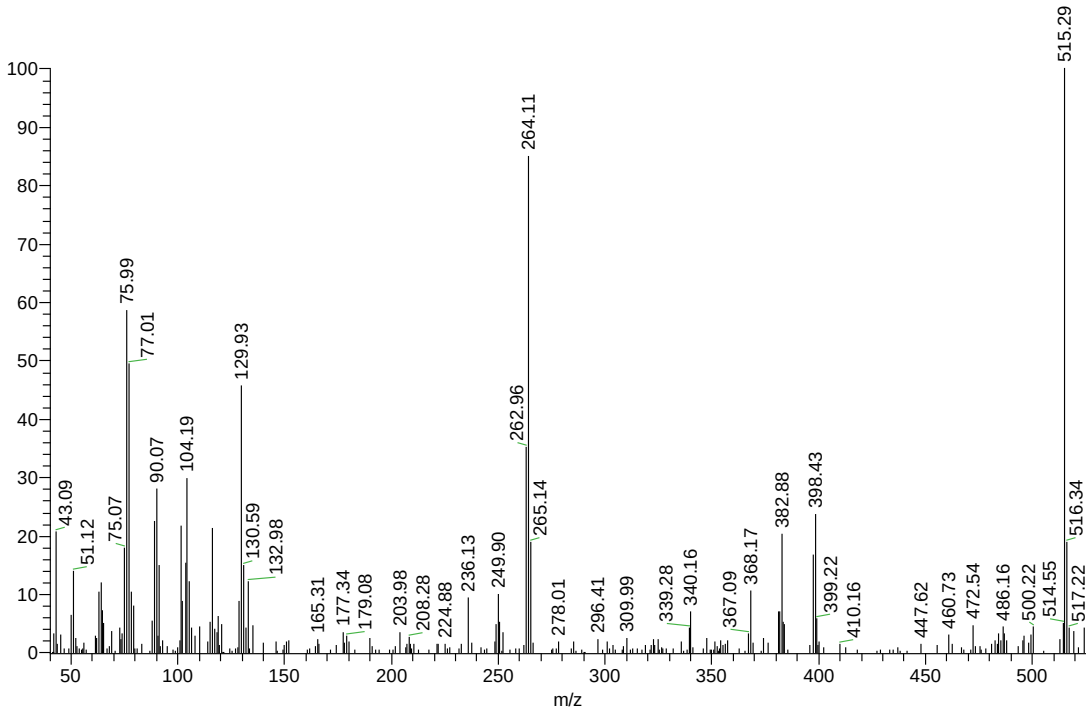


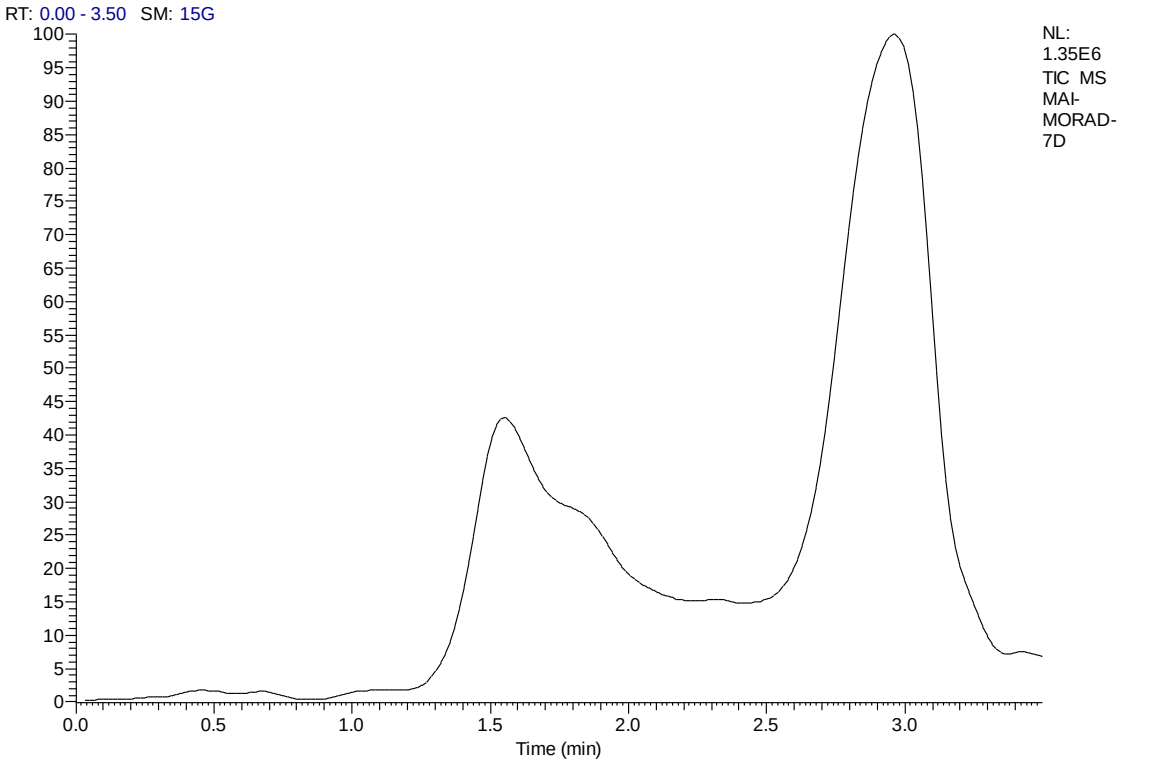
MAI-MORAD-7B #142 RT: 2.39 AV: 1 SB: 2 3.70 , 3.70 NL: 1.81E3
T: {0,0} + c EI Full ms [40.00-1000.00]



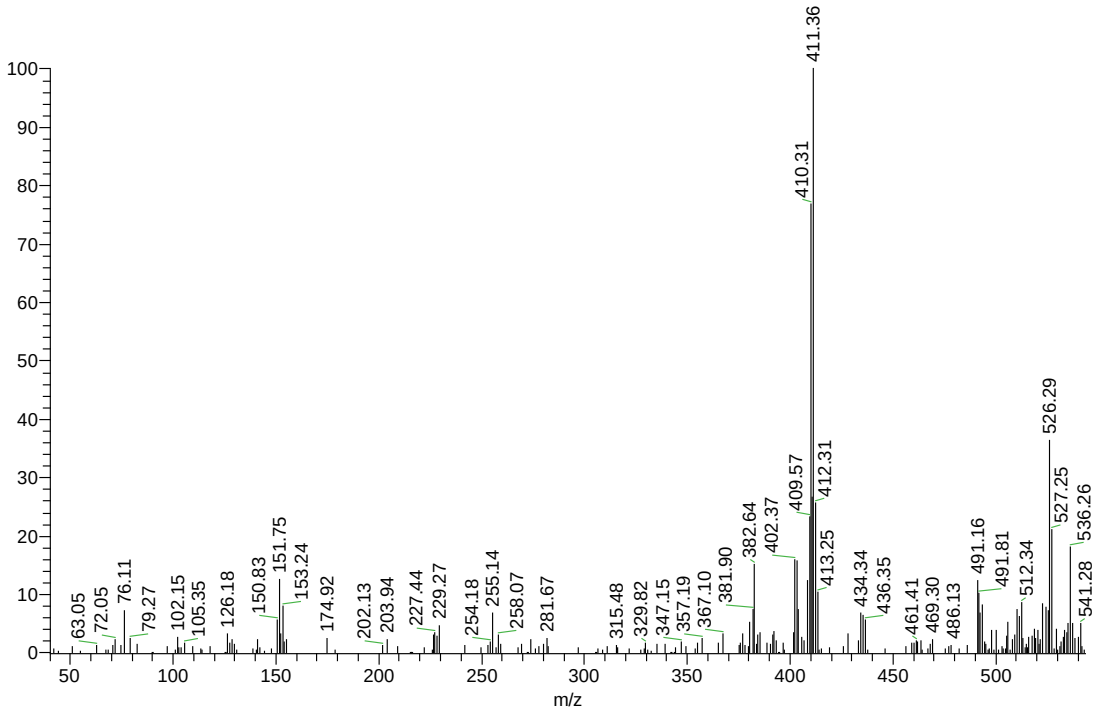


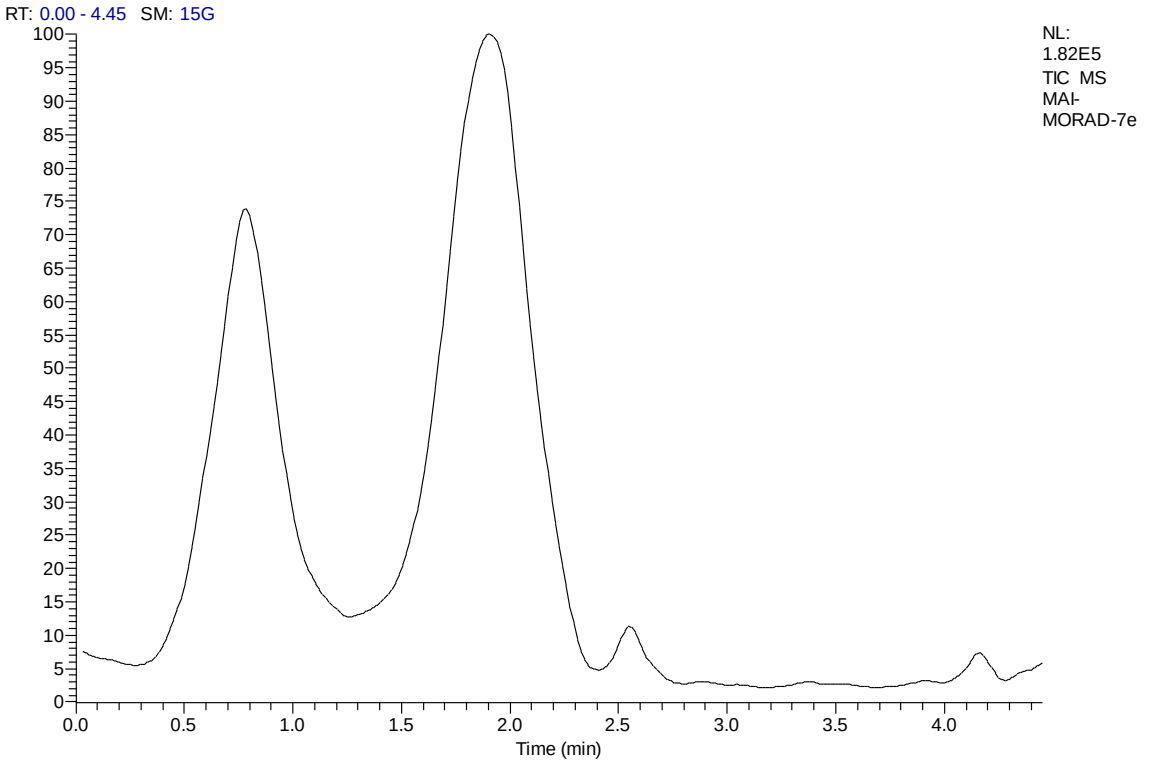
MAI-MORAD-7C #153 RT: 2.58 AV: 1 SB: 2 4.45 , 4.45 NL: 1.75E4
T: {0,0} + c EI Full ms [40.00-1000.00]



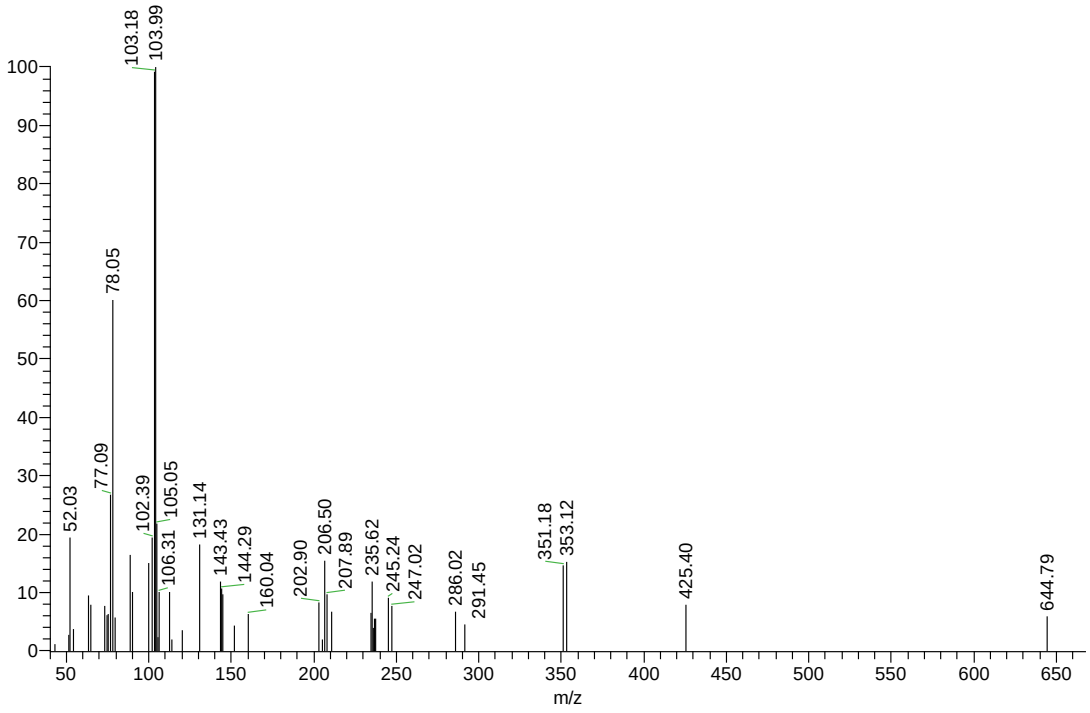


MAI-MORAD-7D #192 RT: 3.23 AV: 1 SB: 2 3.50 , 3.50 NL: 2.19E4
T: {0,0} + c EI Full ms [40.00-1000.00]





MAI-MORAD-7e #77 RT: 1.31 AV: 1 SB: 2 4.45 , 4.45 NL: 2.26E3
T: {0,0} + c EI Full ms [40.00-1000.00]



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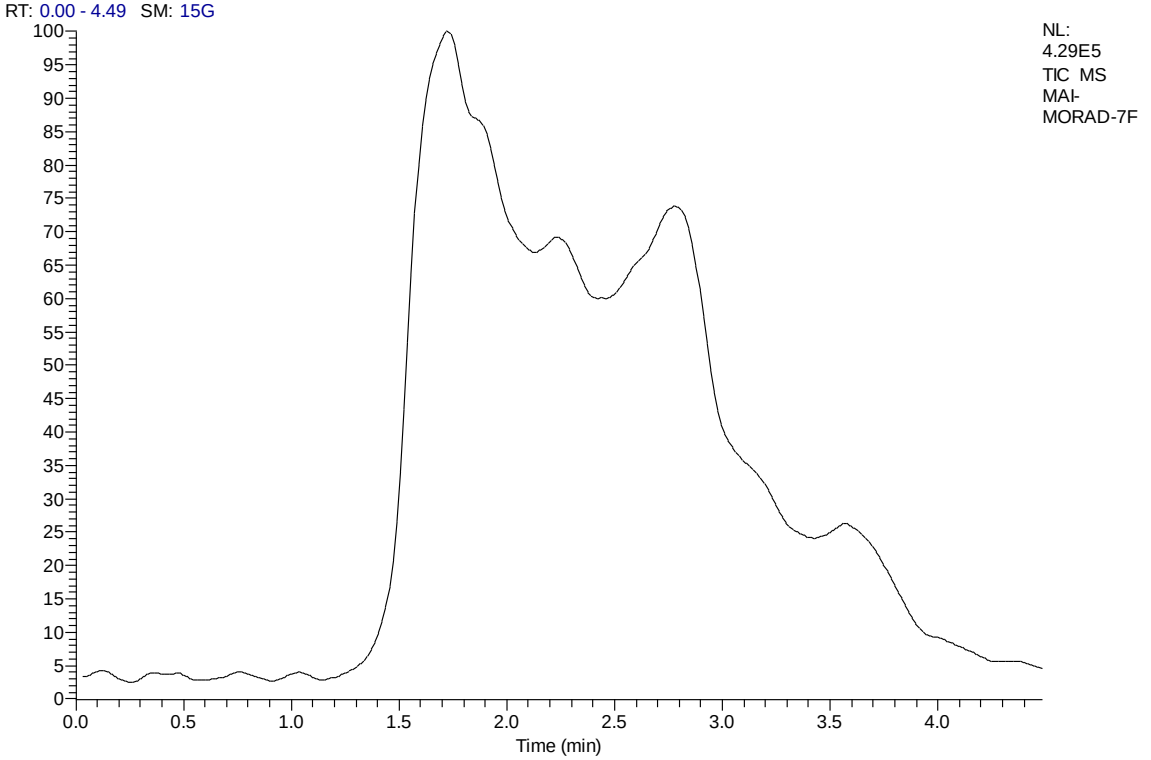
THE OGY AND BIOTECHNOLOGY

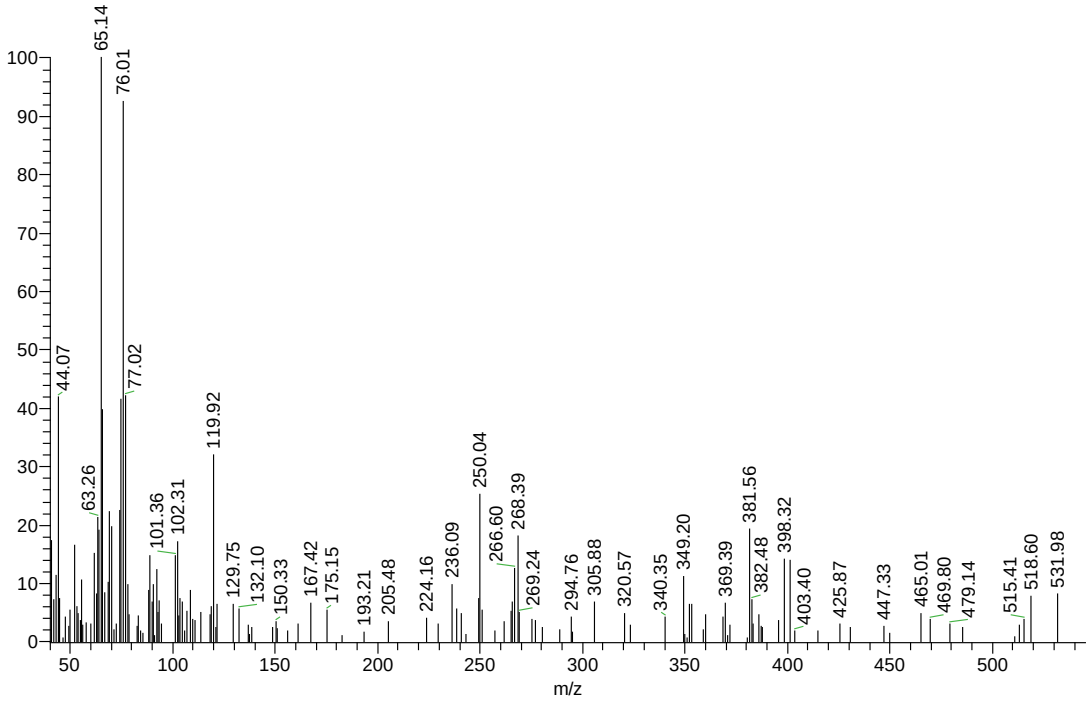
AZH

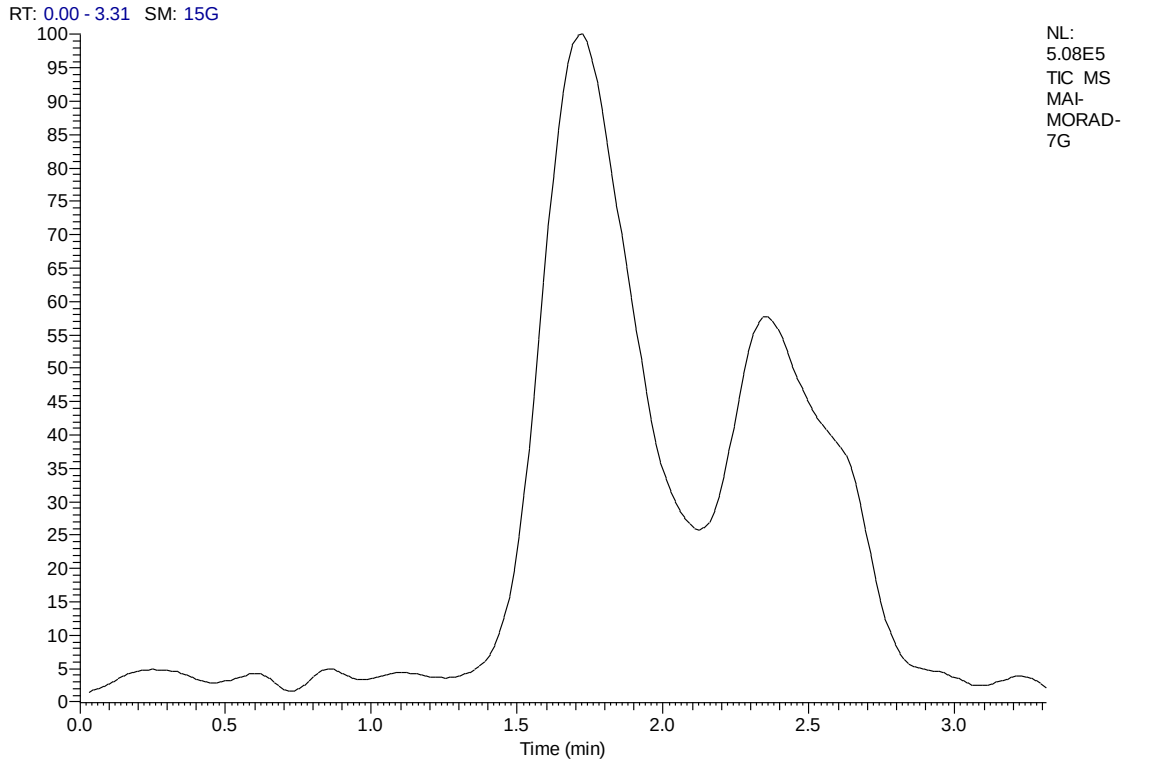
RT: 0.00 - 4.49 SM: 15G



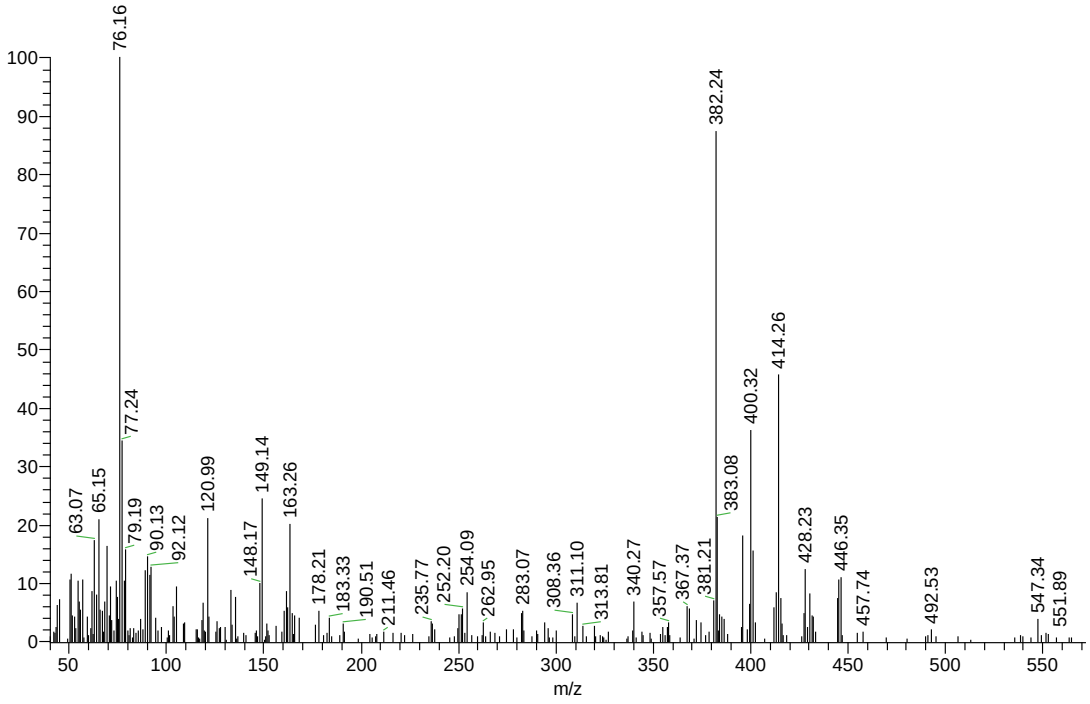
MAI-MORAD-7F #223 RT: 3.75 AV: 1 SB: 2 4.49 , 4.49 NL: 5.06E3

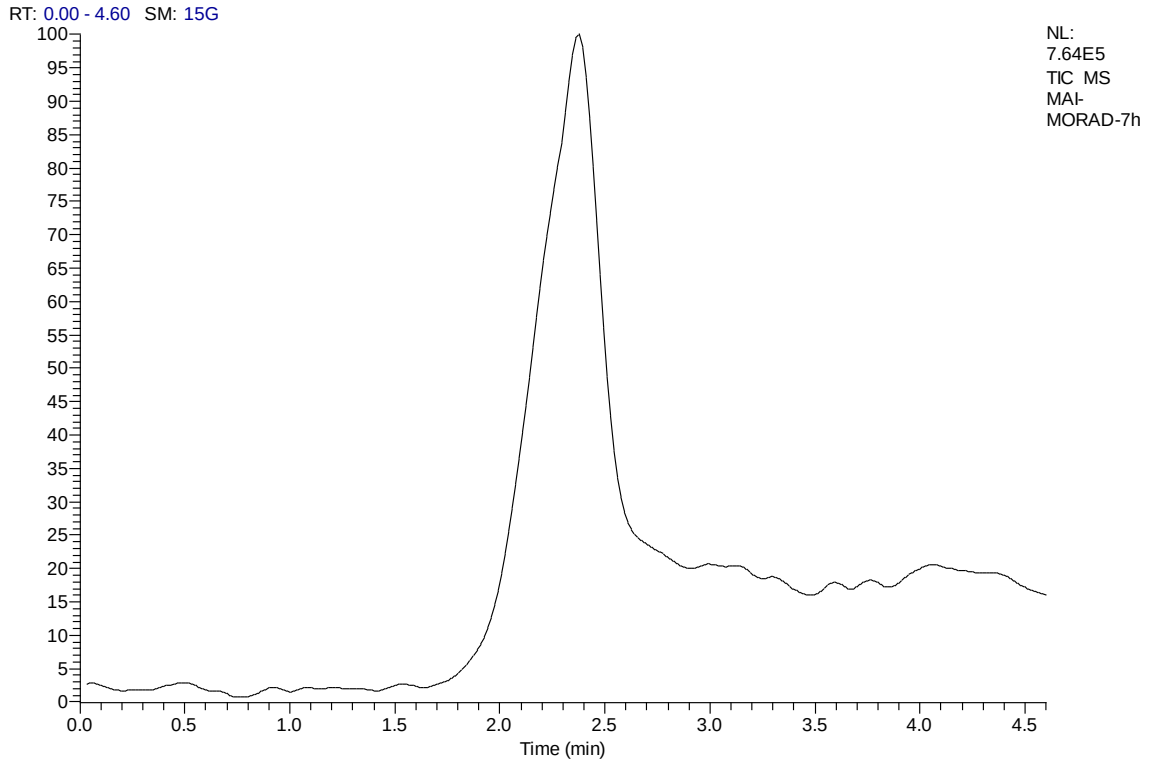
T: {0,0} + c EI Full ms [40.00-1000.00]



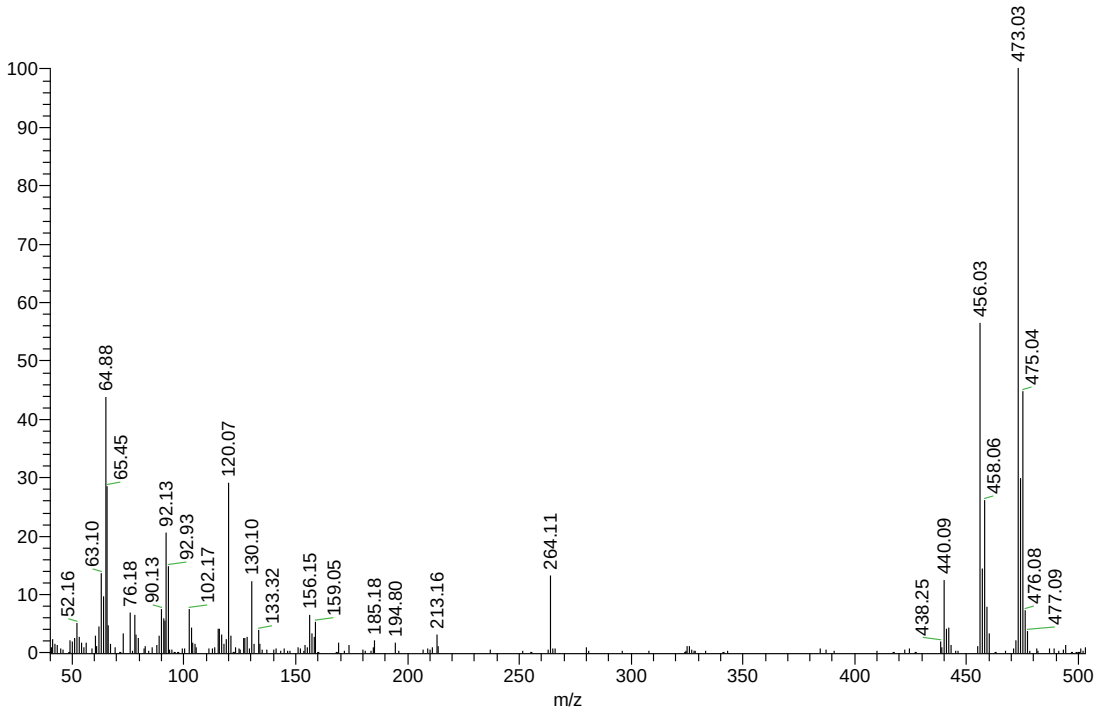


MAI-MORAD-7G #156 RT: 2.63 AV: 1 SB: 2 3.31 , 3.31 NL: 1.39E4
T: {0,0} + c EI Full ms [40.00-1000.00]

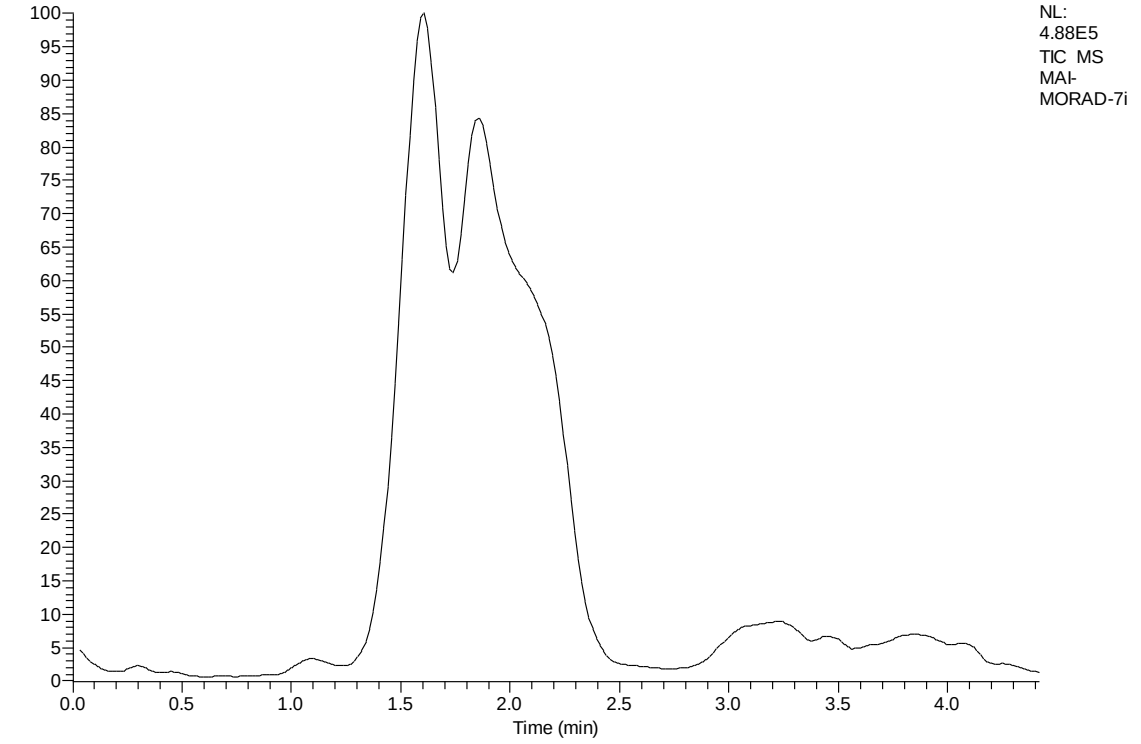




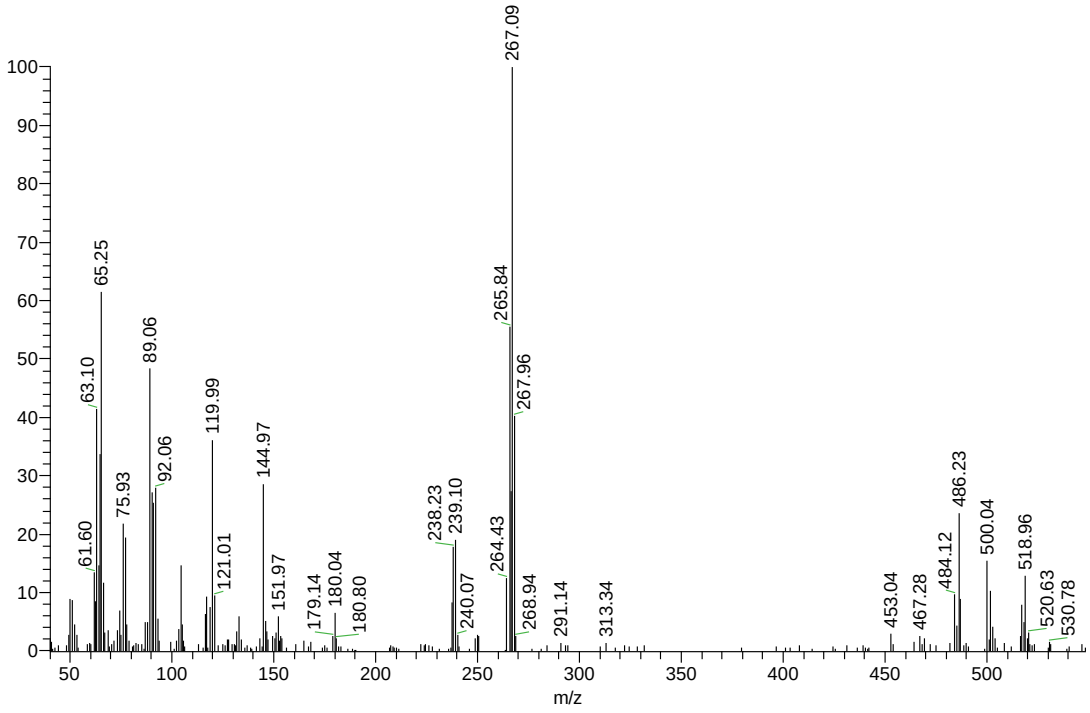
MAI-MORAD-7h #142 RT: 2.39 AV: 1 SB: 2 4.55 , 4.59 NL: 5.41E4
T: {0,0} + c EI Full ms [40.00-1000.00]



RT: 0.00 - 4.42 SM: 15G



MAI-MORAD-7i #118 RT: 1.99 AV: 1 SB: 2 4.42 , 4.42 NL: 2.60E4
T: {0,0} + c EI Full ms [40.00-1000.00]



C:\Xcalibur\data\MAI-MORAD-16 6

12-May-19 4:51:08 PM
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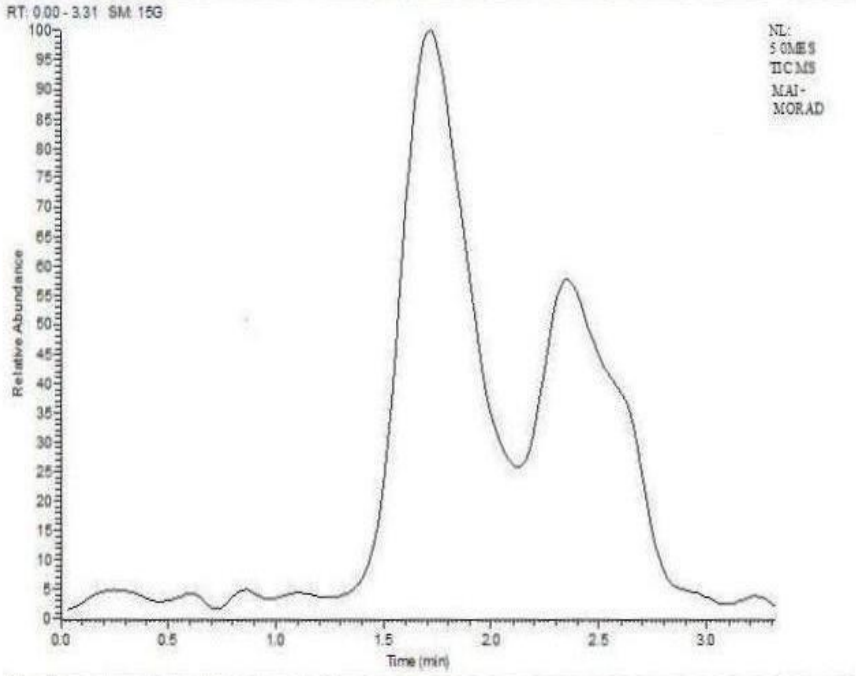
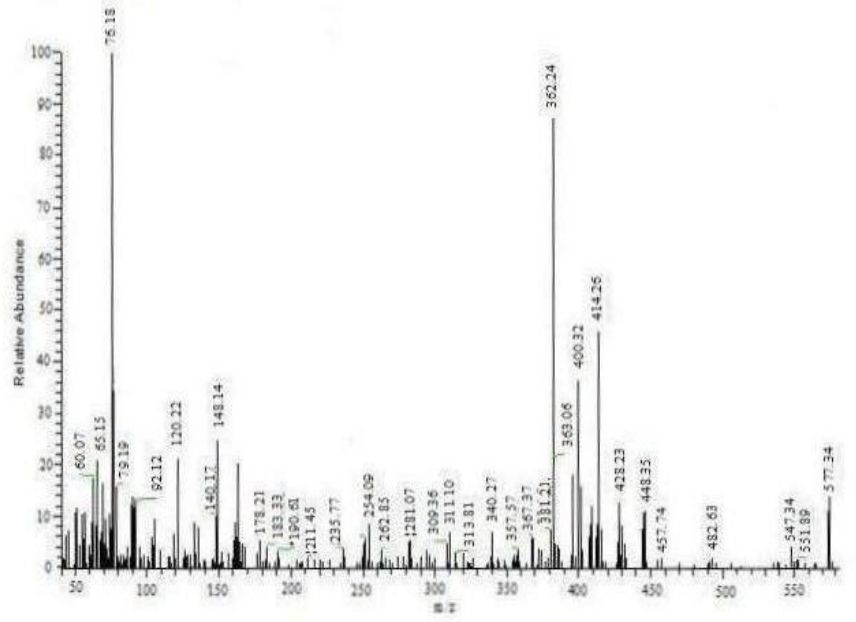
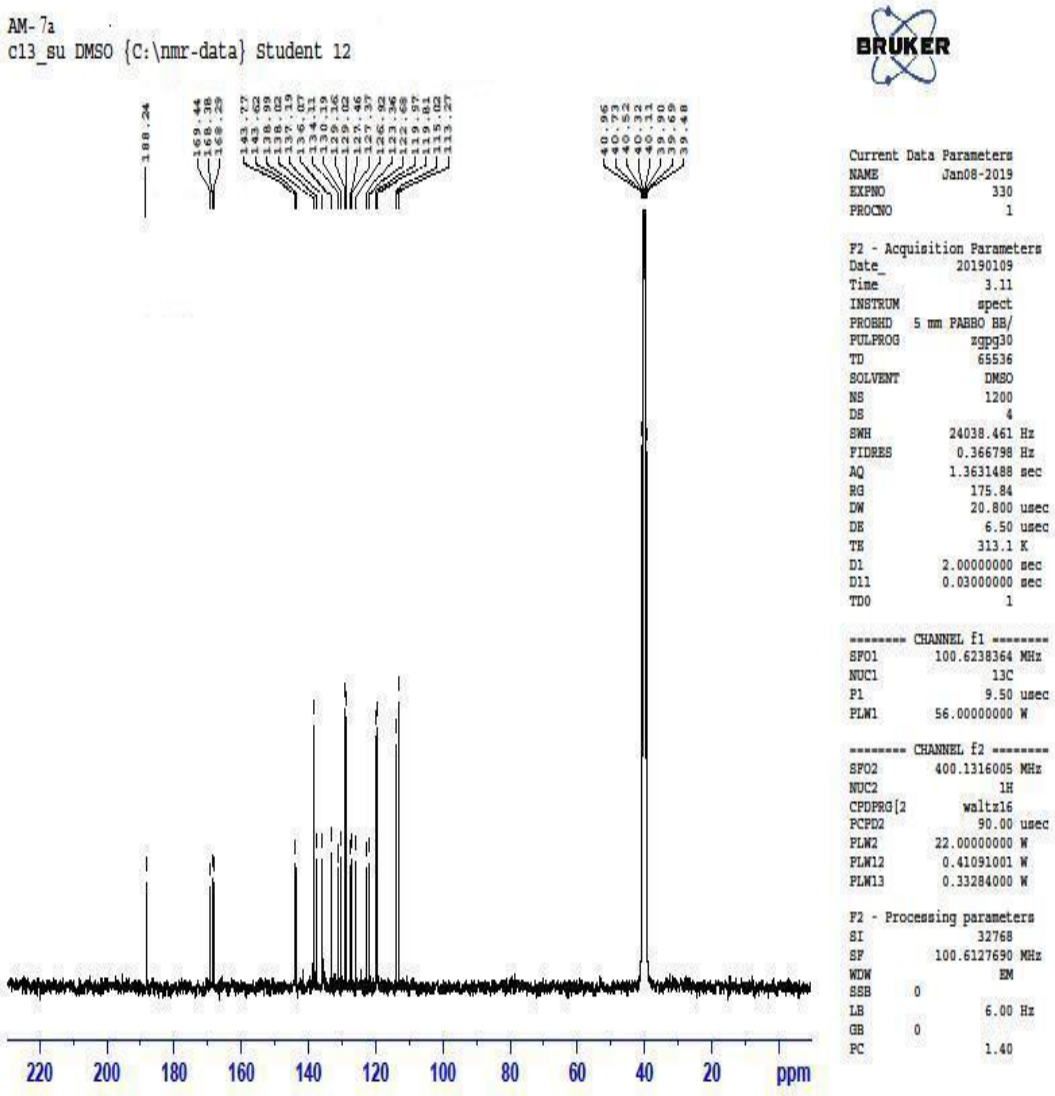
AZHAR UNIVERSITY



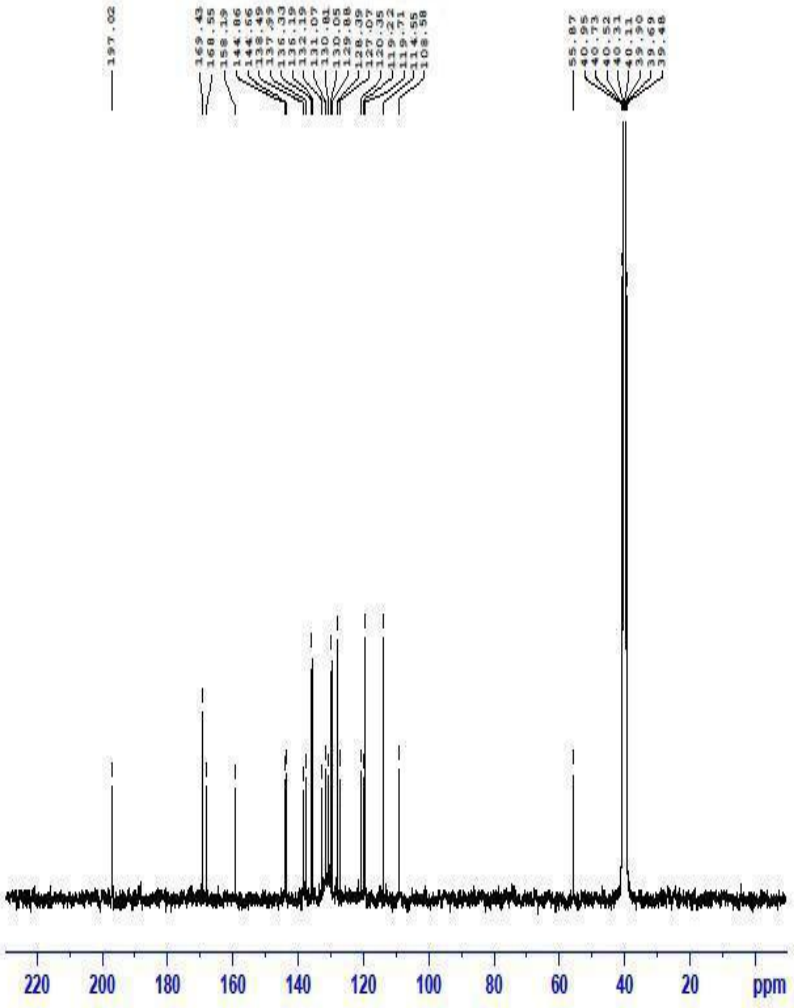
MAI-MORAD-7) 156RT:263 AV: 1 SB :2 331,331 NL :139
T :{0,0} + cIEPdl ms [40.00-1000.00]



^{13}C NMR:


AM-7a
c13_su DMSO {C:\nmr-data} Student 12
BRUKER
188.24
169.44
167.38
166.29
143.77
143.62
138.89
138.80
137.19
136.87
134.11
130.19
130.16
129.82
127.46
127.37
126.92
123.86
122.66
119.87
119.81
115.02
113.27
40.96
40.73
40.52
40.32
40.11
39.90
39.69
39.48
Current Data Parameters
NAME Jan08-2019
EXPNO 330
PROCNO 1
F2 - Acquisition Parameters
Date_ 20190109
Time 3.11
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1200
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 175.84
DW 20.800 usec
DE 6.50 usec
TE 313.1 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 W
======== CHANNEL f2 ========
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2 waltz16
PCPD2 90.00 usec
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
220
200
180
160
140
120
100
80
60
40
20
ppm

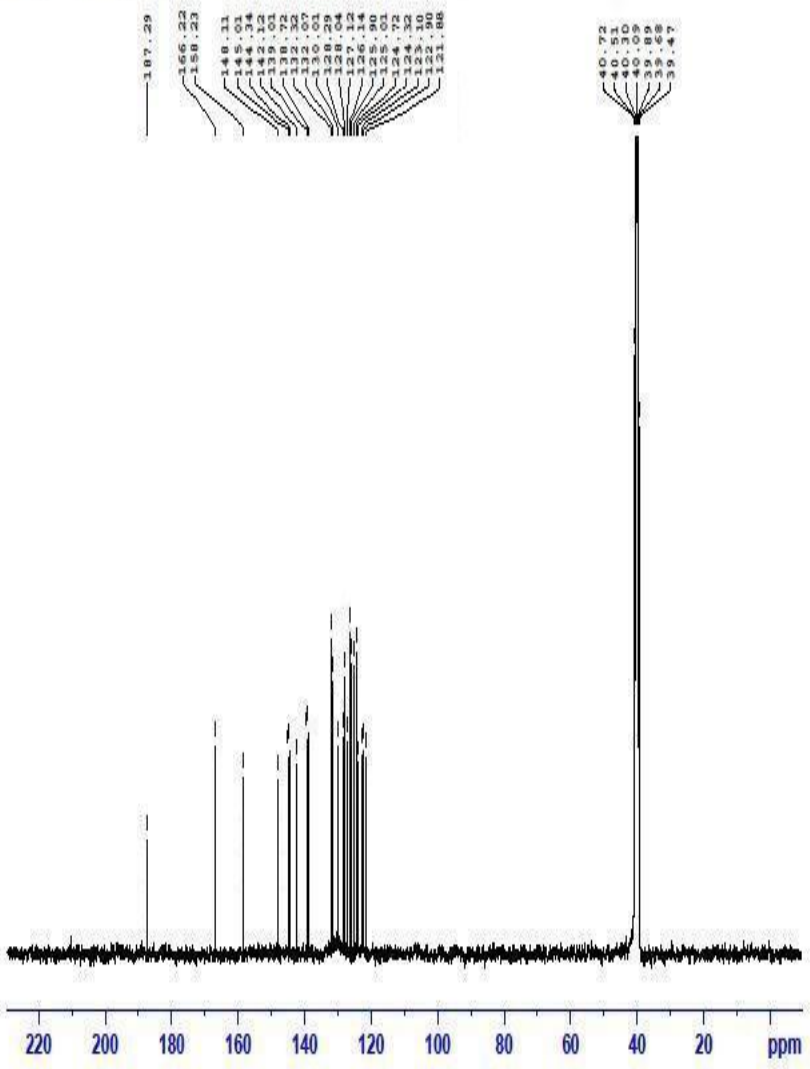
AM-7c
c13_su DMSO (C:\nmr-data) Student 10



BRUKER

```
Current Data Parameters
NAME          Jan08-2019
EXPNO                310
PROCNO                 1

F2 - Acquisition Parameters
Date_           20190109
Time                0.48
INSTRUM            spect
PROBHD   5 mm PABBO BB/
PULPROG          zgpg30
TD                65536
SOLVENT            DMSO
NS                 1200
DS                    4
SWH           24038.461 Hz
FIDRES         0.366798 Hz
AQ             1.3631488 sec
RG                175.84
DW                20.800 usec
DE                 6.50 usec
TE                313.1 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 W

======== CHANNEL f2 ========
SFO2         400.1316005 MHz
NUC2                 1H
CPDPRG[2          waltz16
PCPD2              90.00 usec
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
```

AM-7f
c13_su DMSO {C:\nmr-data} Student 11



BRUKER

Current Data Parameters
NAME Jan08-2019
EXPNO 320
PROCNO 1

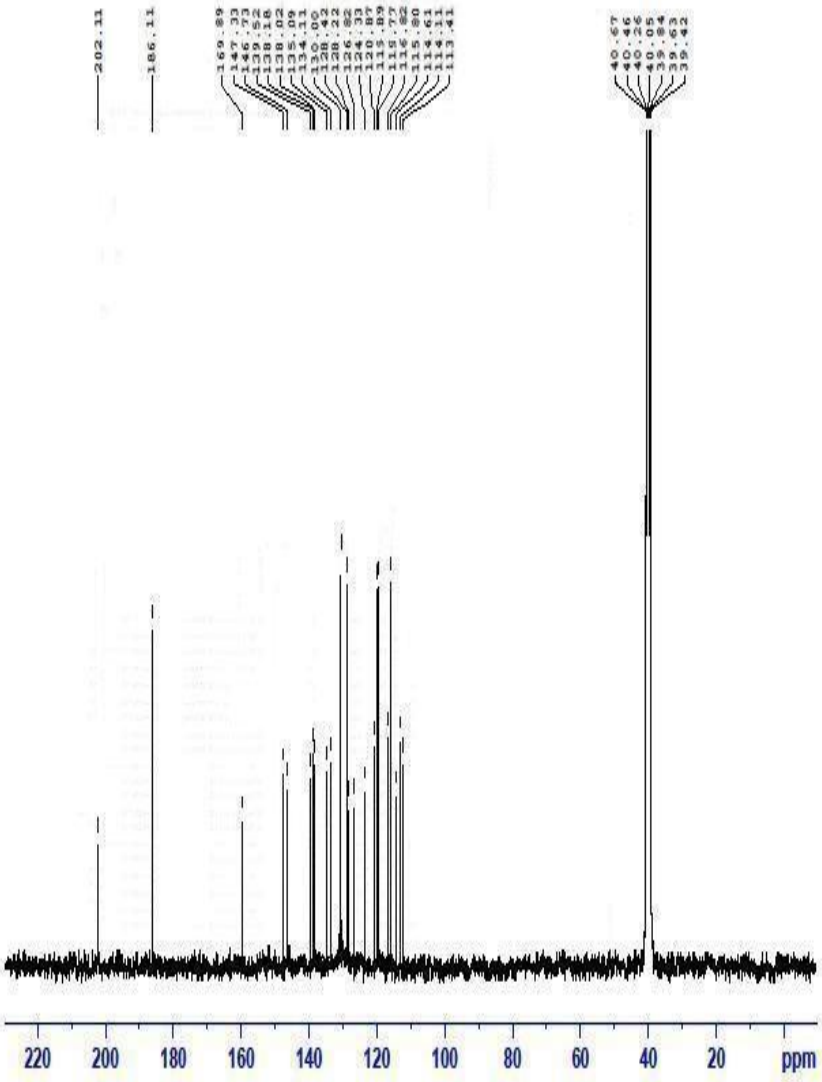
F2 - Acquisition Parameters
Date_ 20190109
Time 1.59
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1200
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 106.18
DW 20.800 usec
DE 6.50 usec
TE 313.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

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

======== CHANNEL f2 ========
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2 waltz16
PCPD2 90.00 usec
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

AM-7h
c13_su DMSO {C:\nmr-data} Student 5



BRUKER

Current Data Parameters
NAME Jan08-2019
EXPNO 260
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190108
Time 18.49
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1200
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 175.84
DW 20.800 usec
DE 6.50 usec
TE 313.2 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 W

======== CHANNEL f2 ========
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2 waltz16
PCPD2 90.00 usec
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

X-ray structure determination of compound 6

Table S1. Crystallographic data for compound 6

Compound	**6**
Formula	$C_{24}H_{18}N_2O_4$
M_r	398.40
Temperature (K)	100
Crystal habit	colourless plate
Crystal size (mm)	0.15 × 0.10 × 0.04
Crystal system	Monoclinic
Space group	$P2_1/c$
Cell dimensions:	
a (Å)	6.5120(3)
b (Å)	33.6736(13)
c (Å)	8.5409(3)
β (°)	95.237(4)
Cell volume (Å^3)	1865.06
Z	4
D_x (g cm^{-3})	1.419
Radiation, wavelength (Å)	Cu *K*α, 1.54184 Å
μ (mm^{-1})	0.80
2θ(max) (°)	154.8
Reflections collected	39381
Independent reflections	3927
R(int)	0.031
Transmissions	0.728 – 1.000
No. of parameters	276
Goodness-of-fit on F^2	1.04
*wR*2 (all reflections)	0.092
*R*1 ($F > 4\sigma(F)$)	0.036
Max. Δρ (e Å^{-3})	0.22

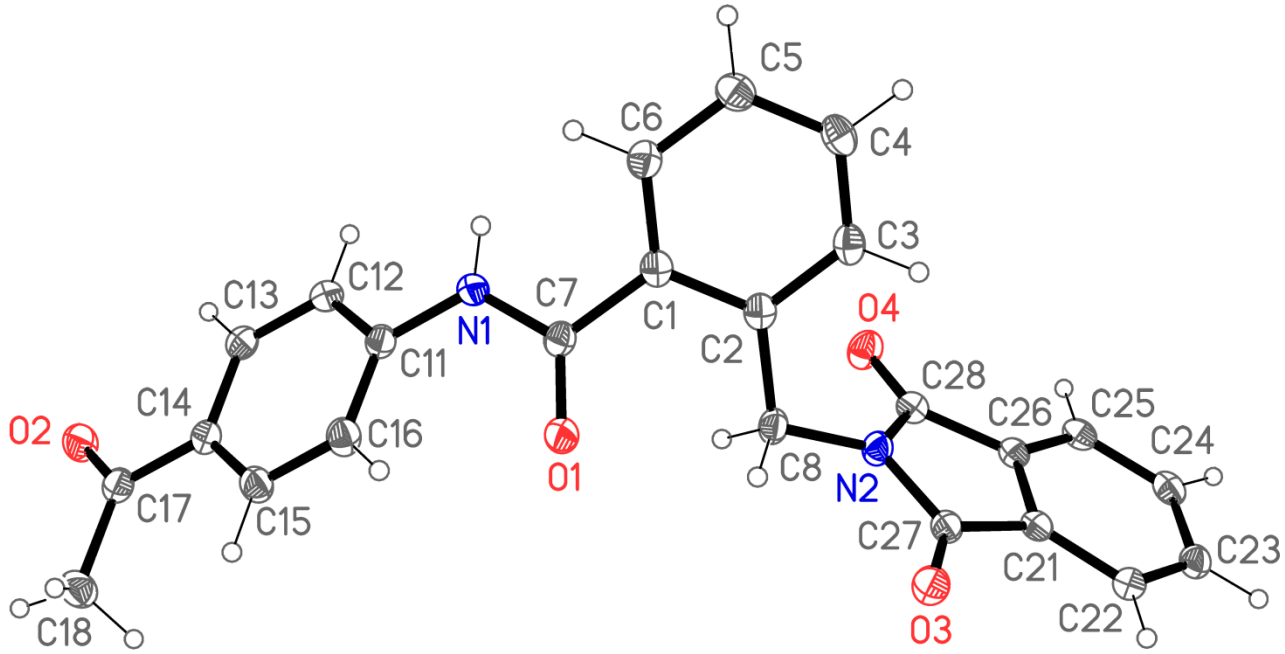


Fig. S1. The structure of compound **6** in the crystal. Ellipsoids represent 50% probability levels.

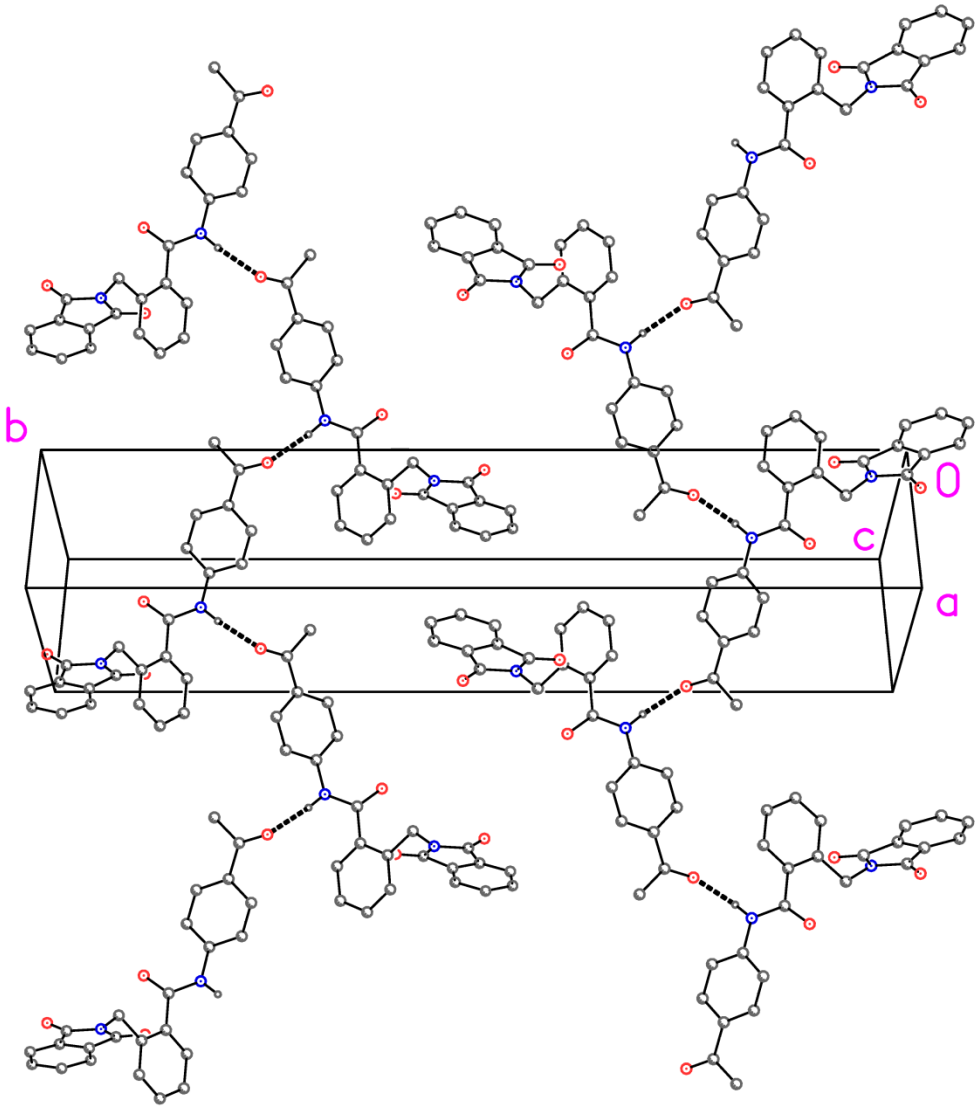


Fig. S2. Packing diagram of compound **6**. Thick dashed lines indicate classical hydrogen bonds N1–H01…O2 via the *c* glide plane. Molecules are linked to form chains parallel to [201]. View direction is perpendicular to $(10\bar{2})$. Hydrogen atoms not involved in hydrogen bonding are omitted for clarity.