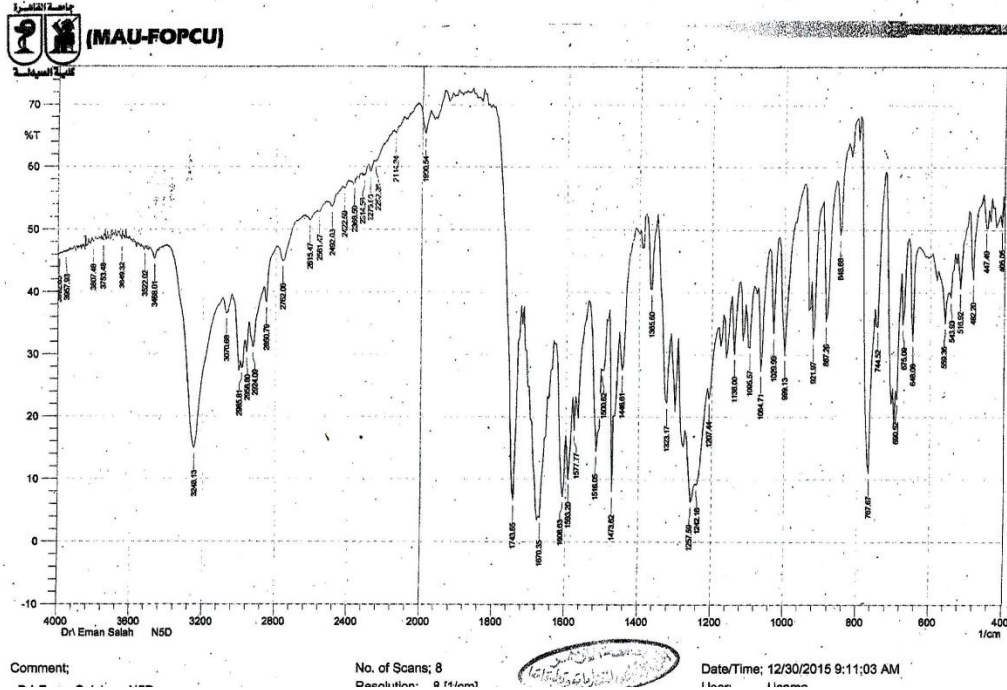


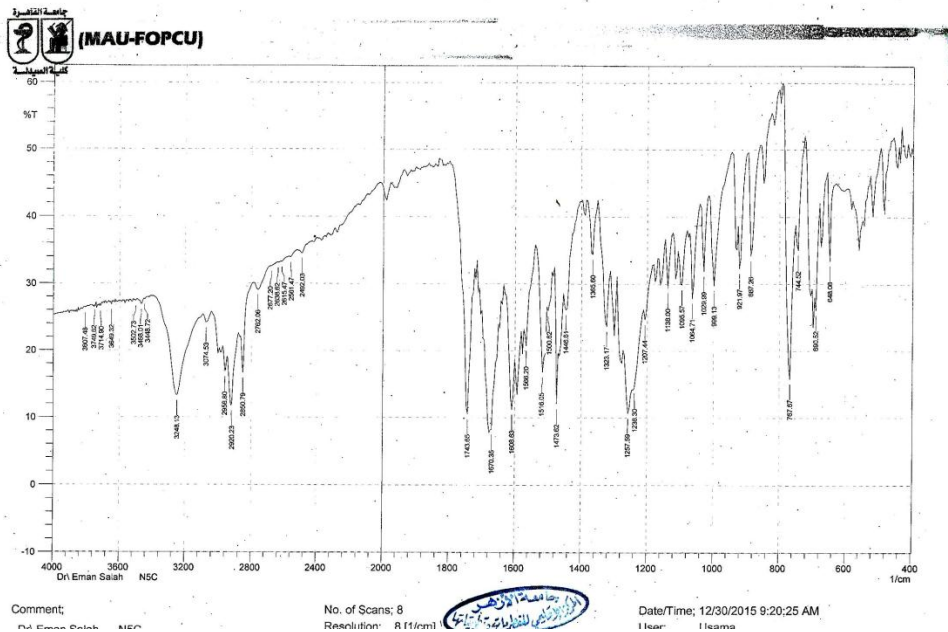
Compound 7 (b-g)

The superposition of IR spectra obtained for products obtained from reaction of the ester **6** with tri-(hydroxymethyl)methyl amine and with piperidine

IR from reaction of the ester **6** with tri-(hydroxymethyl)methyl amine



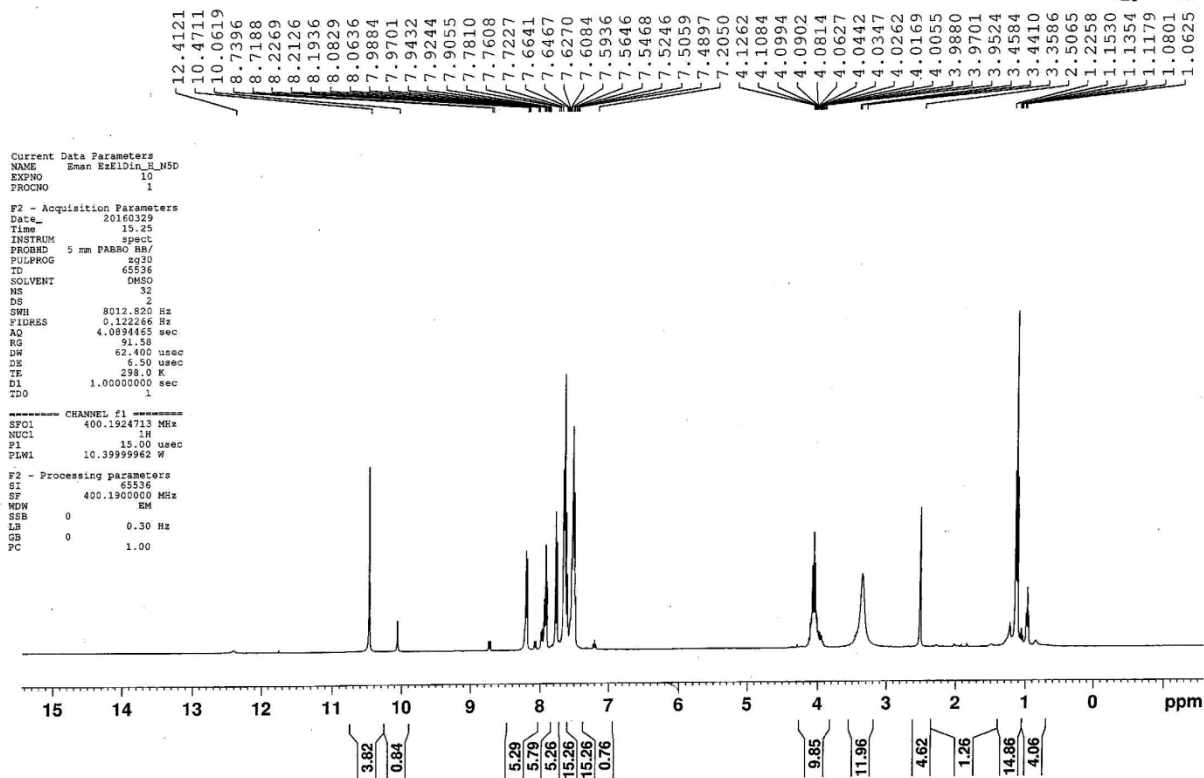
IR from reaction of the ester **6** with piperidine



The superposition of $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ spectra obtained for products obtained from reaction of the ester **6** with tri-(hydroxymethyl)methyl amine and with piperidine

$^1\text{H-NMR}$ from reaction of the ester **6** with tri-(hydroxymethyl)methyl amine

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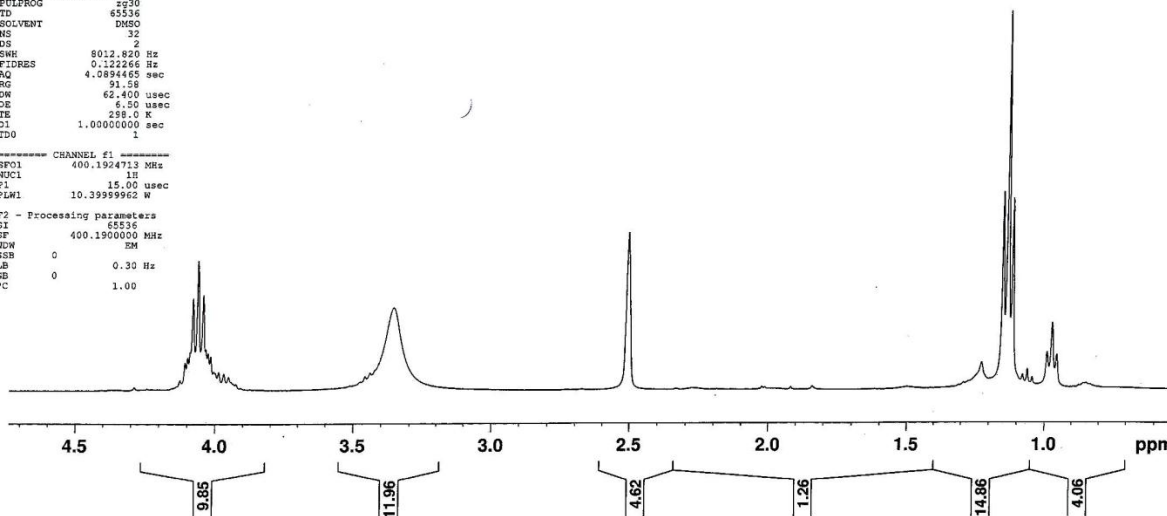


4.1262
4.1084
4.0994
4.0902
4.0814
4.0627
4.0442
4.0347
4.0262
4.0169
4.0055
3.9880
3.9701
3.9524
3.4584
3.4410
3.3586

2.5065

1.2258
1.1530
1.1354
1.1179
1.0801
1.0625
0.9918
0.9744
0.9570

Current Data Parameters
NAME Eman EzEidin_MSD
EXPNO 10
PROCNO 1
F2 - Acquisition Parameters
Date_ 20160329
Time 15.25
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 91.58
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
ZD0 1
===== CHANNEL f1 =====
SF01 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39959962 W
F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





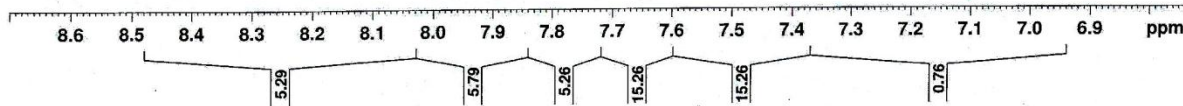
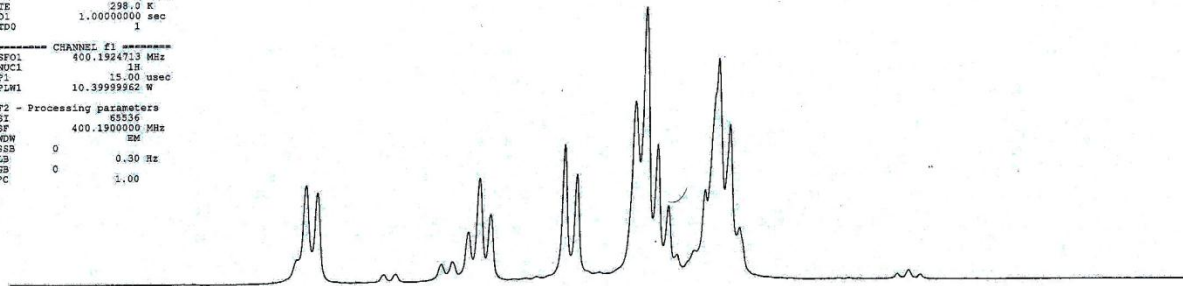
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8.2126
8.1936
8.0829
8.0636
7.9884
7.9701
7.9432
7.9244
7.9055
7.7810
7.7608
7.7227
7.6641
7.6467
7.6270
7.6084
7.5936
7.5646
7.5468
7.5246
7.5059
7.4897

7.2050

Current Data Parameters
NAME Emax H2ID1a_N5d
EXPNO 10
PROCNO 1
F2 - Acquisition Parameters
Date_ 20160329
Time 15.25
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 32
DS 2
SWH 8012.826 Hz
FIDRES 0.122266 Hz
AQ 4.083465 sec
RG 91.98
DW 62.400 usec
DE 4.50 usec
TE 298.0 K
D1 1.0000000 sec
TD0 1

----- CHANNEL f1 -----
SF01 400.1524713 MHz
NUC1 1H
F1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



D₂O

D2O

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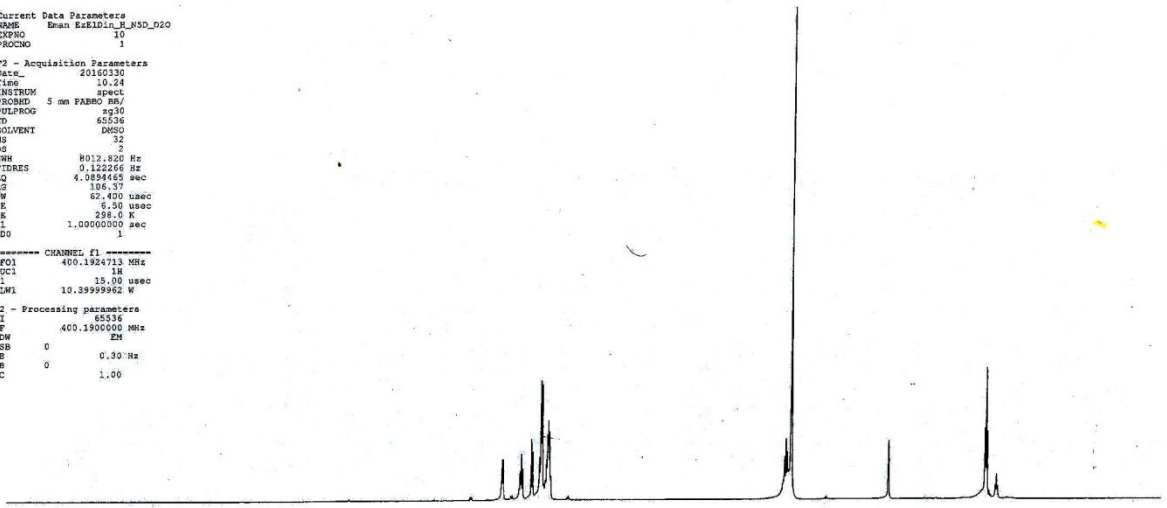
8.1758
8.1564
7.9115
7.8929
7.8741
7.7470
7.7267
7.6226
7.6020
7.5830
7.5664
7.5371
7.5198
7.5028
7.4912
7.4730
7.4566
4.0639
4.0552
4.0376
4.0198
4.0021
3.9850
3.9750
3.9424
— 2.5082
1.1065
1.0890
1.0715
0.9483
0.9310

```
Current Data Parameters
NAME      Eman ExE1D1a_R_NSD_D2O
EXPNO     10
PROCNO    1

P2 - Acquisition Parameters
Date_     20160330
Time      10.24
INSTRUM   spect
PROBHD    5 mm F4BBO BB/
PULPROG   zg30
TD         65536
SOLVENT   DMSO
NS         32
DS         2
SWH        8012.820 Hz
FIDRES     0.122266 Hz
AQ         4.0838465 sec
RG         196.37
DF         62.400 usec
DE         6.38 usec
TE         298.0 K
SI         1.00000000 sec
TD0

----- CHANNEL f1 -----
SFO1      400.1924713 MHz
NUC1       13C
P1         15.00 usec
PLW1       10.39999962 W

P2 - Processing parameters
SI         65536
SF         400.1900000 MHz
WDW        EM
SSB         0
LB         0.30 Hz
GB         0
PC         1.00
```



15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 ppm

5.10
6.06
5.88
28.77

33.78

4.35

13.25
2.79

D2O

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8.1758
8.1564

7.9115
7.8929
7.8741

7.7470
7.7267

7.6226
7.6020
7.5830

7.5564
7.5371

7.5198
7.5028
7.4912

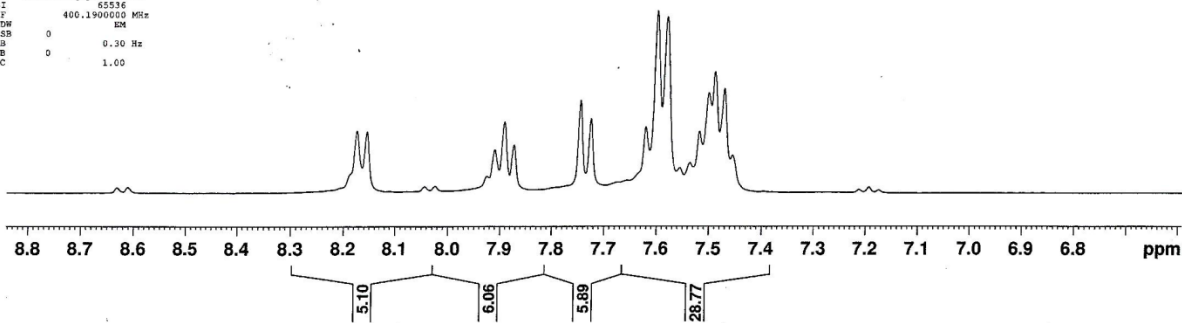
7.4730
7.4566

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EXPNO     1
PROCNO    1

F2 - Acquisition Parameters
Date_     20160330
Time      10.24
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zg30
TD        65536
SOLVENT   DMSO
NS        32
DS        2
SWH       8012.820 Hz
FIDRES    0.122266 Hz
AQ        4.0894465 sec
RG        156.37
DN        62.400 usec
DE        6.50 usec
TE        298.0 K
D1        1.00000000 sec
TD0       1

===== CHANNEL f1 =====
SFO1     400.1904713 MHz
NUC1     1H
P1       15.00 usec
PL1      10.39999962 dB

F2 - Processing parameters
SI       65536
SF       400.1900000 MHz
WDW      EM
SSB      0
LB       0.30 Hz
GB       0
PC       1.00
```



¹³C-NMR from reaction of the ester 6 with tri-(hydroxymethyl)methyl amine

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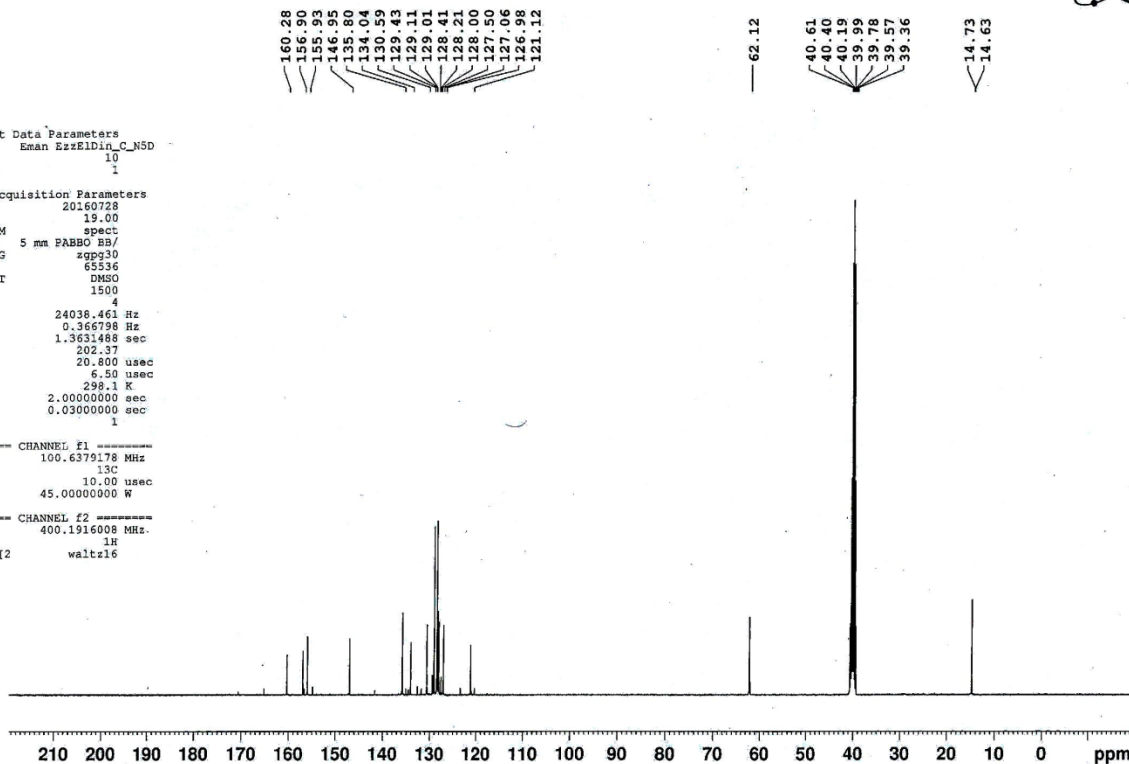


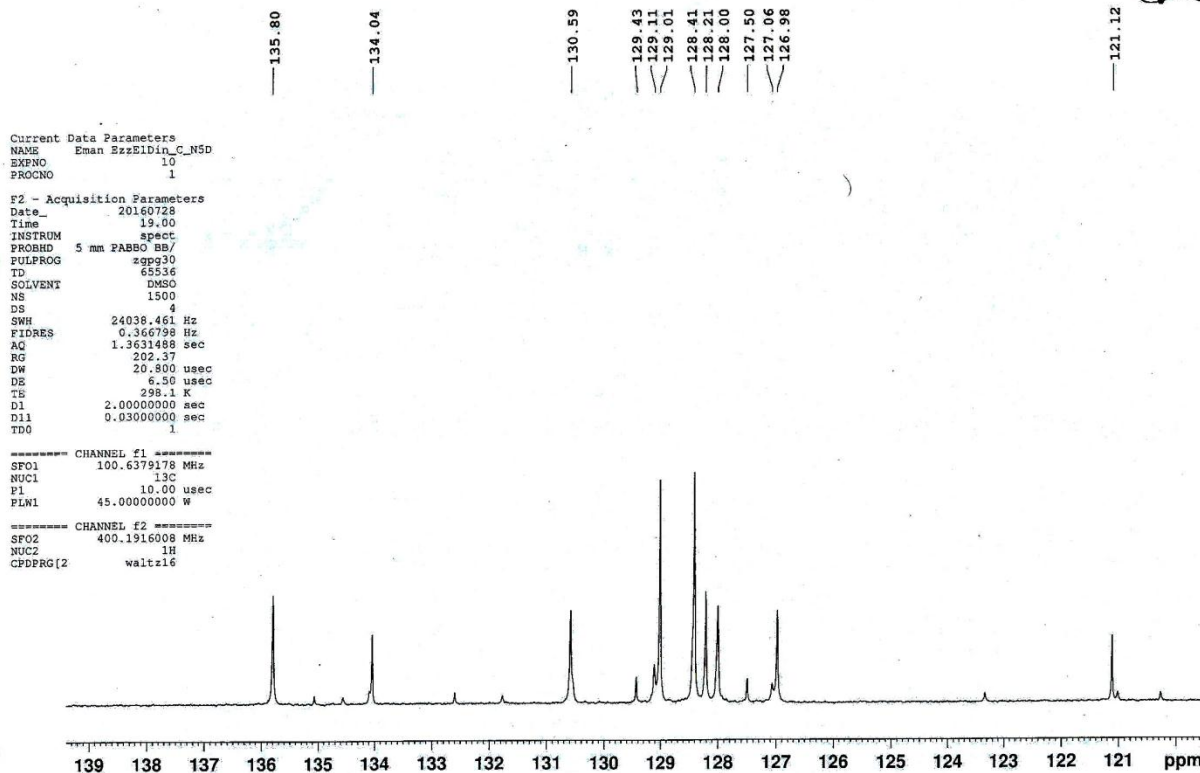
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EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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Time 19.00
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

----- CHANNEL f2 -----
SFO2 400.1916008 MHz.
NUC2 1H
CPDPRG[2] waltz16







—160.28

—156.90

—155.93

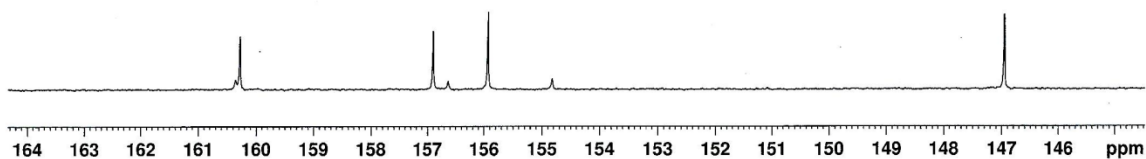
—146.95

Current Data Parameters
NAME Eman EzzEldin_C_N5D
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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Time 19.00
INSTRUM spect
PROBHD 5 mm PABBO BBI/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.1 K
DI 2.0000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

----- CHANNEL f2 -----
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG2 waltz16



¹H-NMR from reaction of the ester 6 with piperidine

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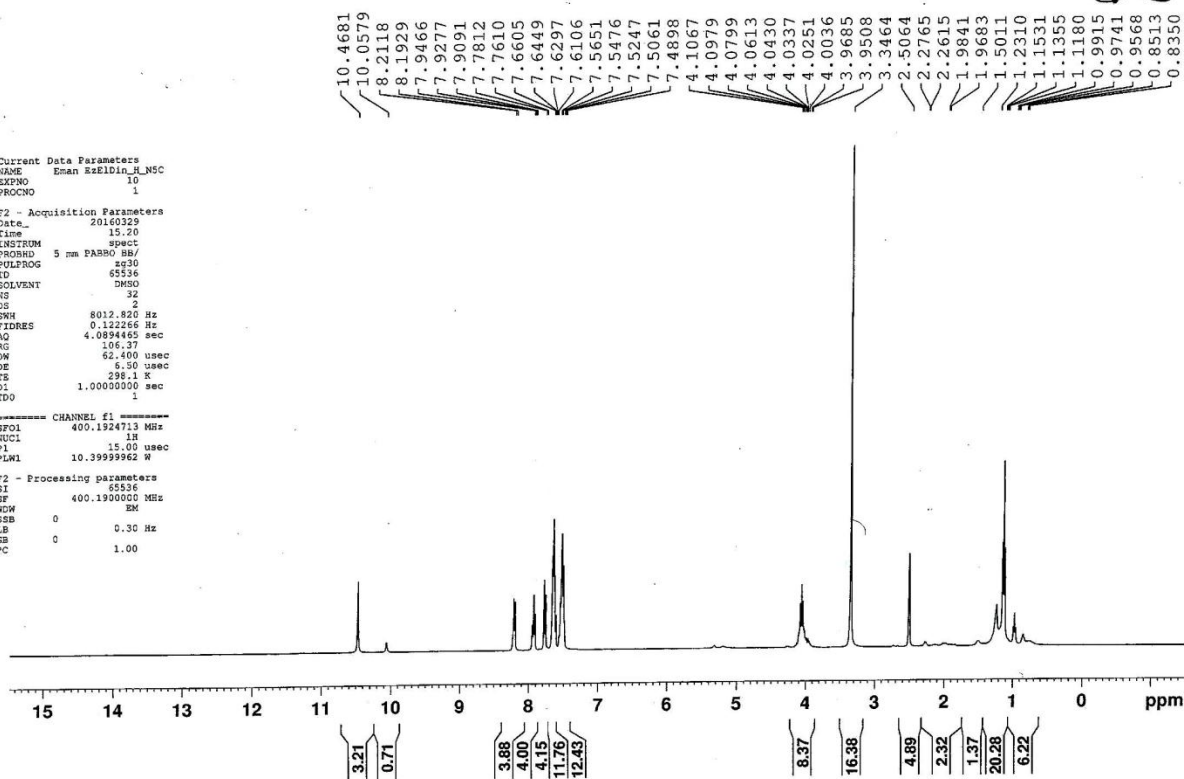


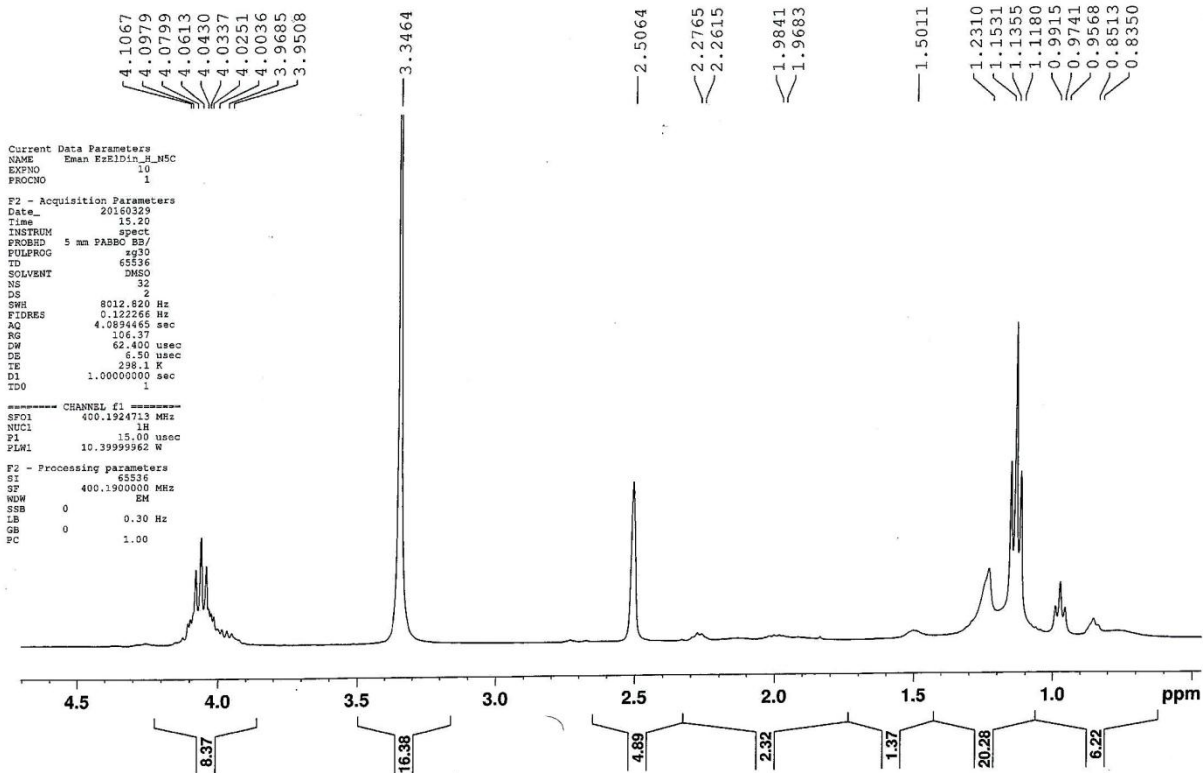
Current Data Parameters
NAME Eman EzEidin_H_N5C
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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Time 15.20
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 106.37
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TDO 1

----- CHANNEL f1 -----
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NUC1 1H
P1 15.00 usec
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F2 - Processing parameters
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SF 400.1900000 MHz
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SSB 0
LB 0.30 Hz
GB 0
PC 1.00







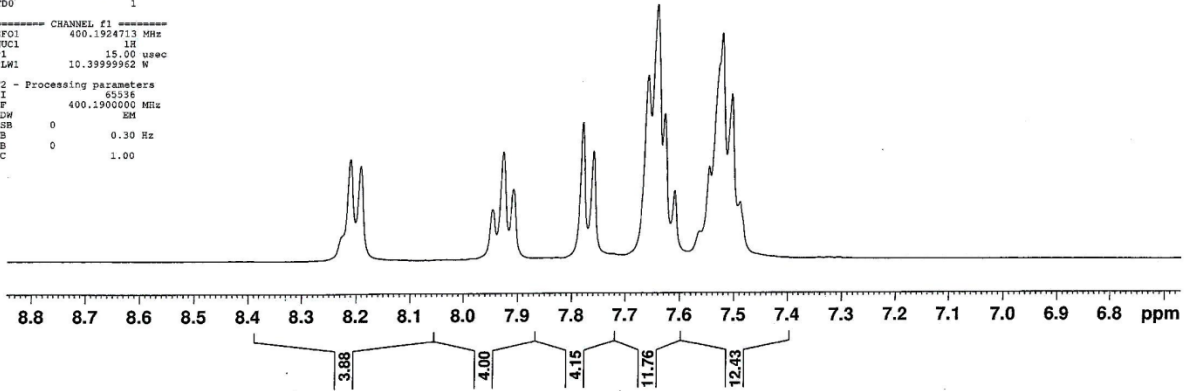
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7.9277
7.9091
7.7812
7.7610
7.6605
7.6449
7.6297
7.6106
7.5651
7.5476
7.5247
7.5061
7.4898

Current Data Parameters
NAME Ekan Ea2D1a_4_NSC
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160329
Time 15.20
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894463 sec
RG 106.37
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

==== CHANNEL f1 =====
SF01 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



D₂O

D₂O

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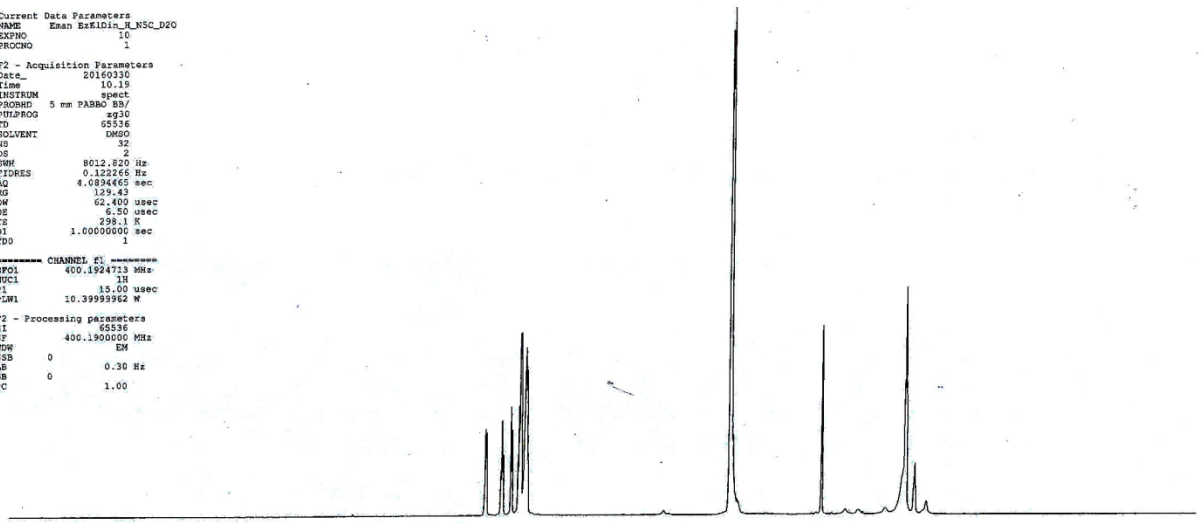
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Current Data Parameters
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EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
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Time     10.13
INSTRUM  spect
PROBHD   5 mm PABBO BBI
PULPROG  zg30
TD       65536
SOLVENT  DMSO
NS       32
DS       2
SWH      8012.820 Hz
FIDRES   0.122265 Hz
AQ       4.0894665 sec
RG       329.43
DM       62.400 usec
DE       6.50 usec
TE       298.1 K
D1       1.0000000 sec
TDO      1

----- CHANNEL f1 -----
SFO1     400.1924713 MHz
NUC1     13
P1       15.00 usec
PLW1     10.399999962 W

F2 - Processing parameters
SI       65536
SF       400.1900000 MHz
WDW      EM
SSB      0
LB       0.30 Hz
GB       0
PC       1.00
```

8.1727
8.1548
7.9129
7.8949
7.8749
7.7444
7.7243
7.6236
7.6045
7.5842
7.5688
7.5159
7.4884
7.4709
4.0546
4.0478
4.0401
4.0265
3.9959
2.5078
1.0968
1.0821
1.0653
0.9414
0.9263
0.7303

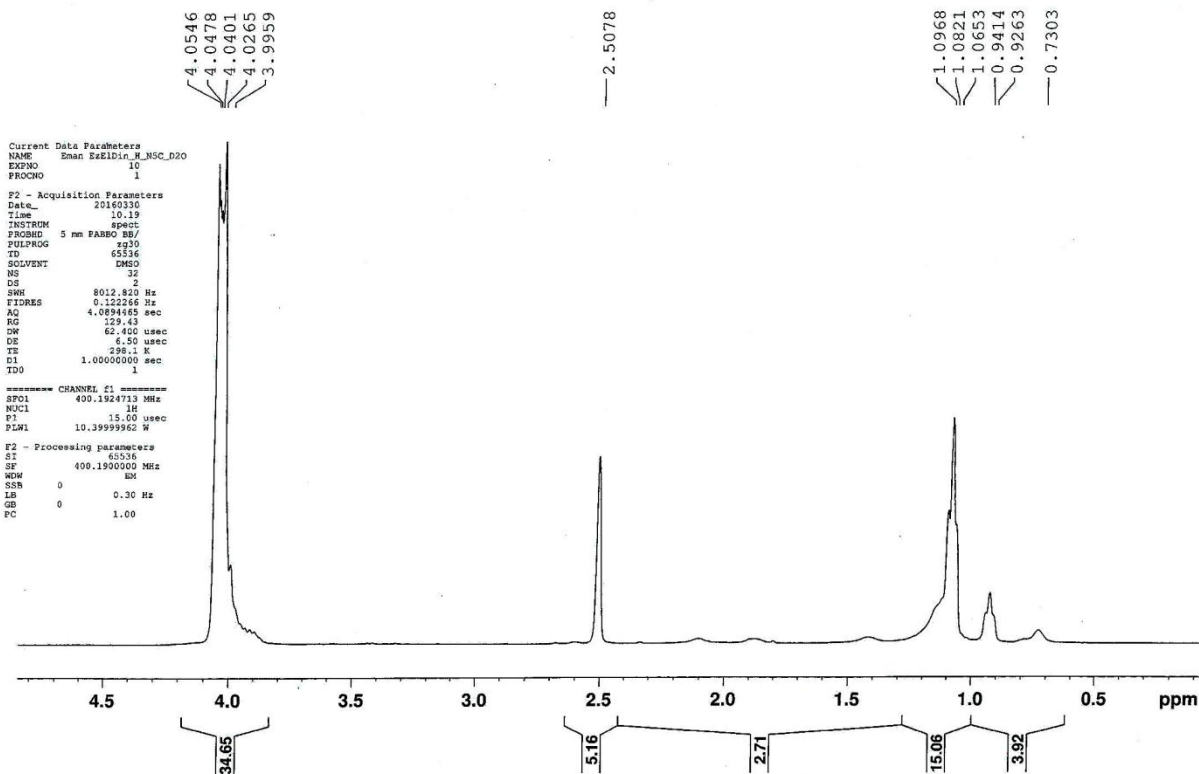


16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 -1 -2 ppm

4.18
4.33
4.32
25.67
34.65
5.16
2.71
15.06
3.92

D2O

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D2O

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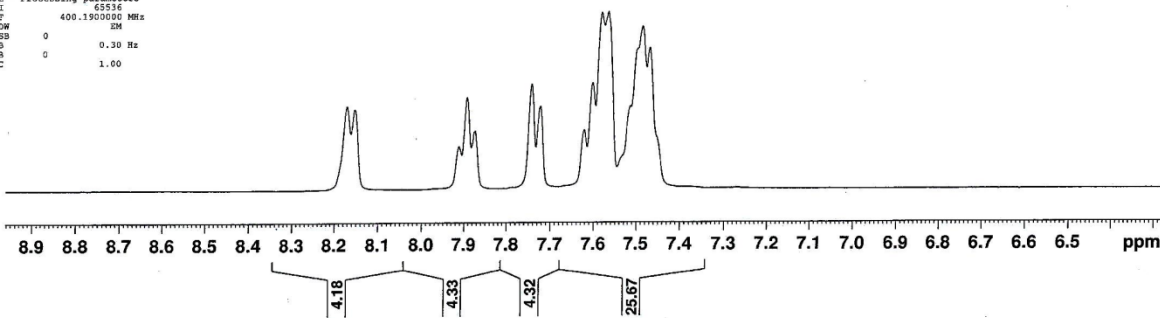
8.1727
8.1548
7.9129
7.8949
7.8749
7.7444
7.7243
7.6236
7.6045
7.5842
7.5688
7.5159
7.4884
7.4709

```
Current Data Parameters
NAME      Emar EzMIDLn_R_NSC_D2O
EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
Date_    20160330
Time     10.19
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       65536
SOLVENT  DMSO
NS       12
DS       2
SFO1     801.200 MHz
FIDRES   0.122266 Hz
AQ       4.0894465 sec
RG       129.43
DN       62.400 usec
DE       4.50 usec
TE       299.1 K
D1       1.00000000 sec
TD0

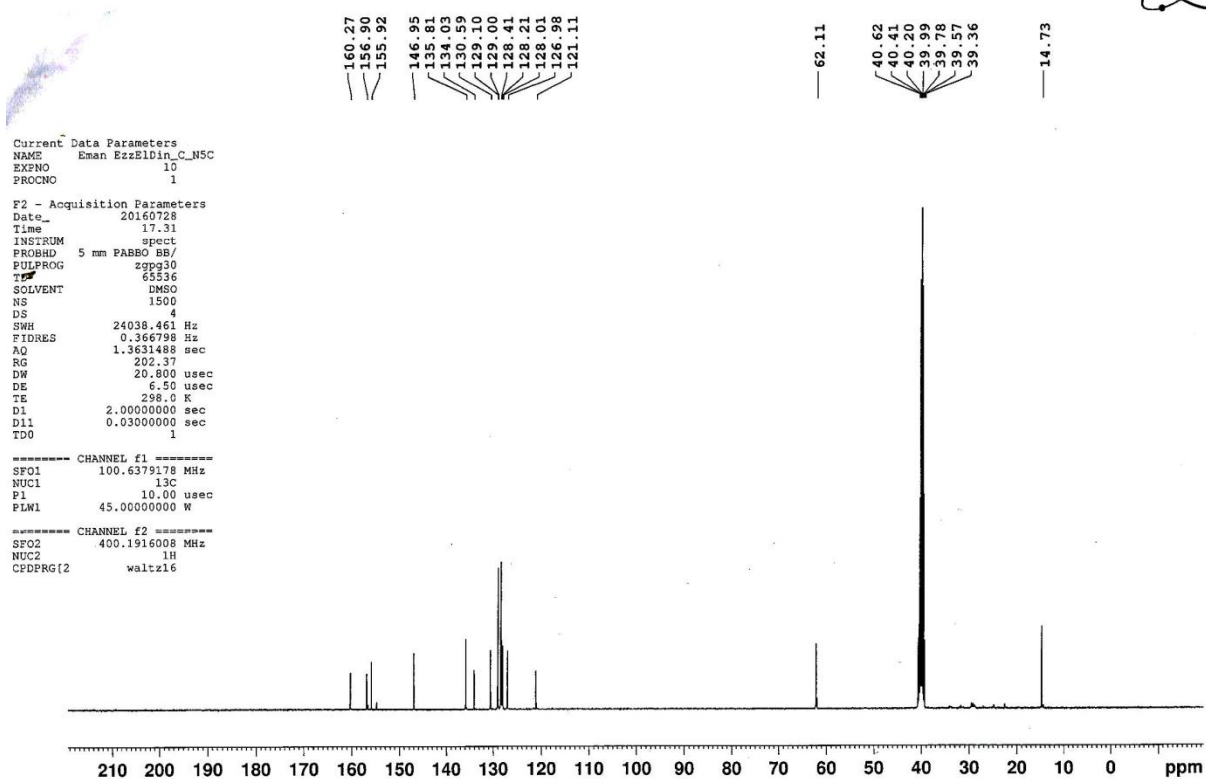
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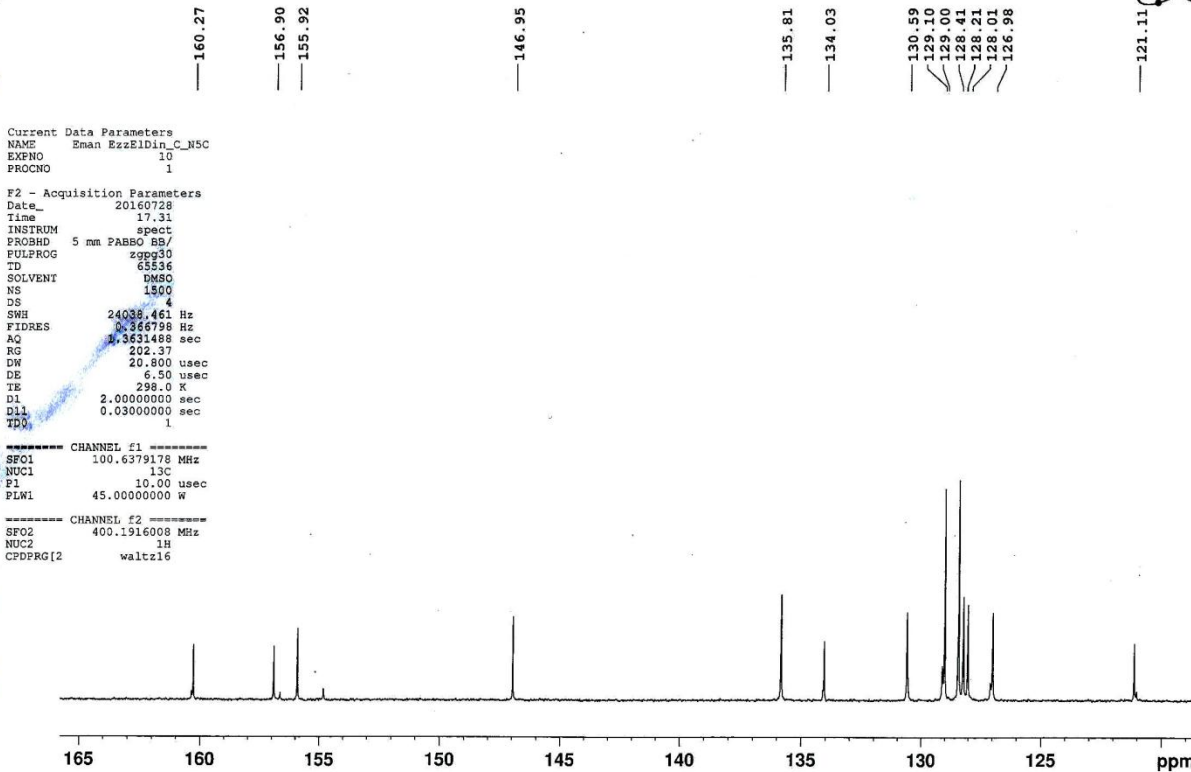
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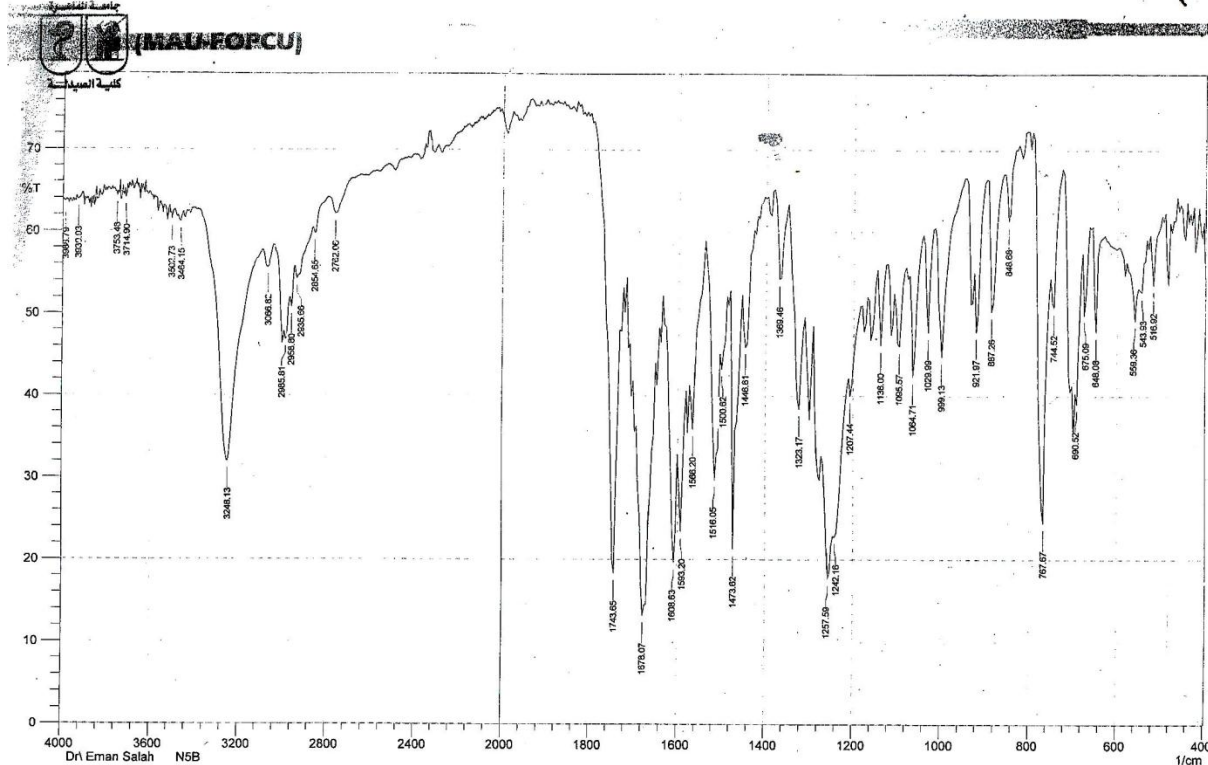
¹³C-NMR from reaction of the ester 6 with piperidine

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IR from reaction of the ester 6 with morpholine



Comment;

No. of Scans; 8

Date/Time; 12/20/2015 10:10:05 AM

¹H-NMR from reaction of the ester 6 with morpholine

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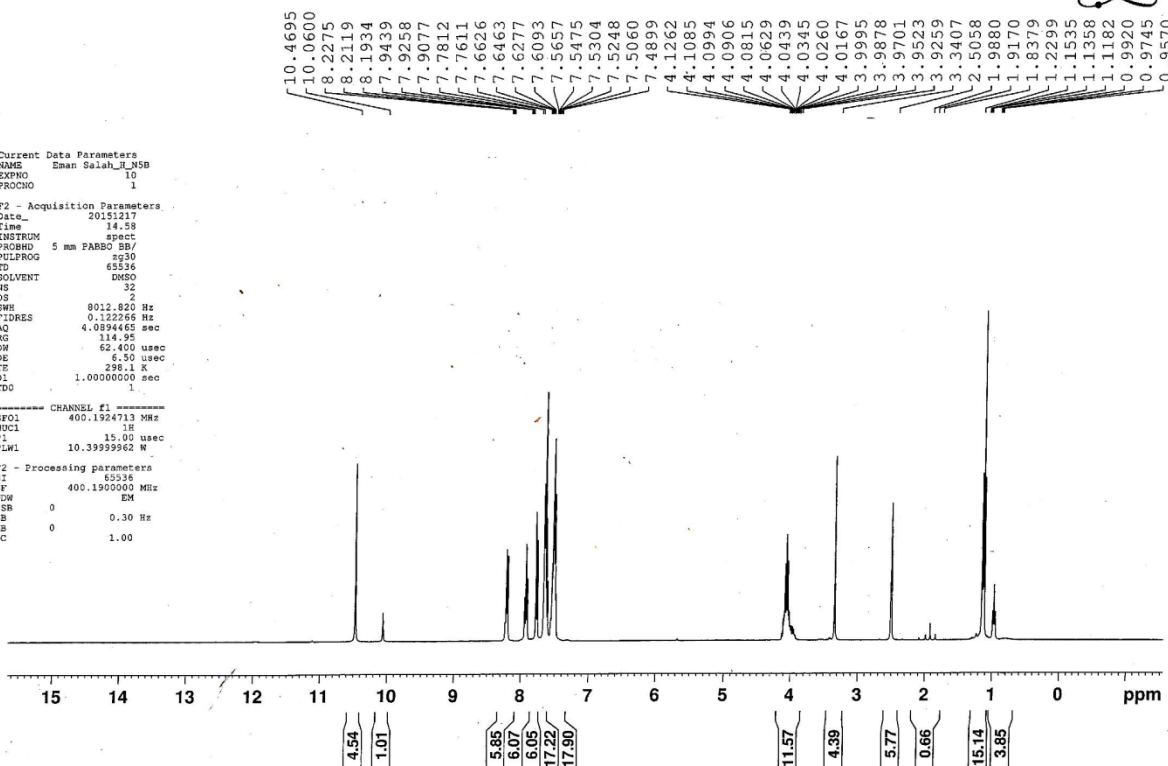


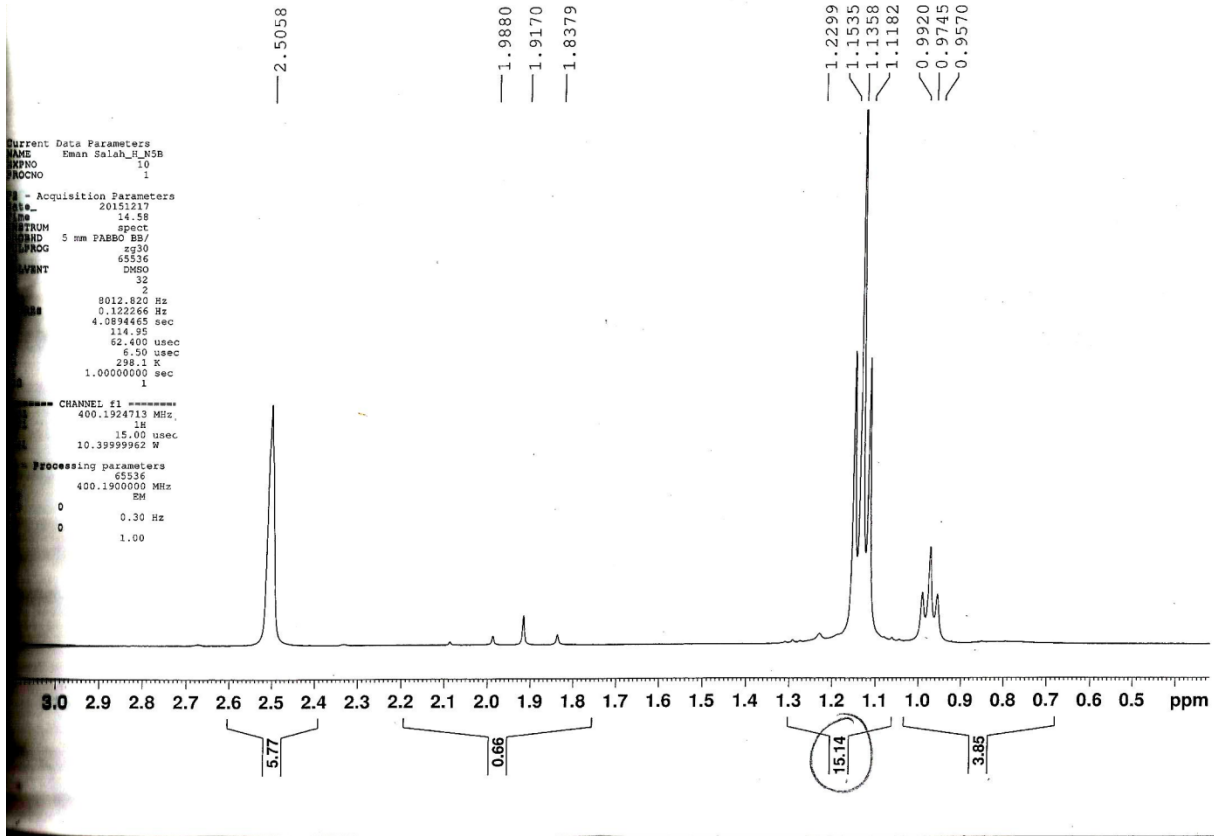
Current Data Parameters
NAME Eman Salah_1_NSB
EXPNO 10
PROCNO 1

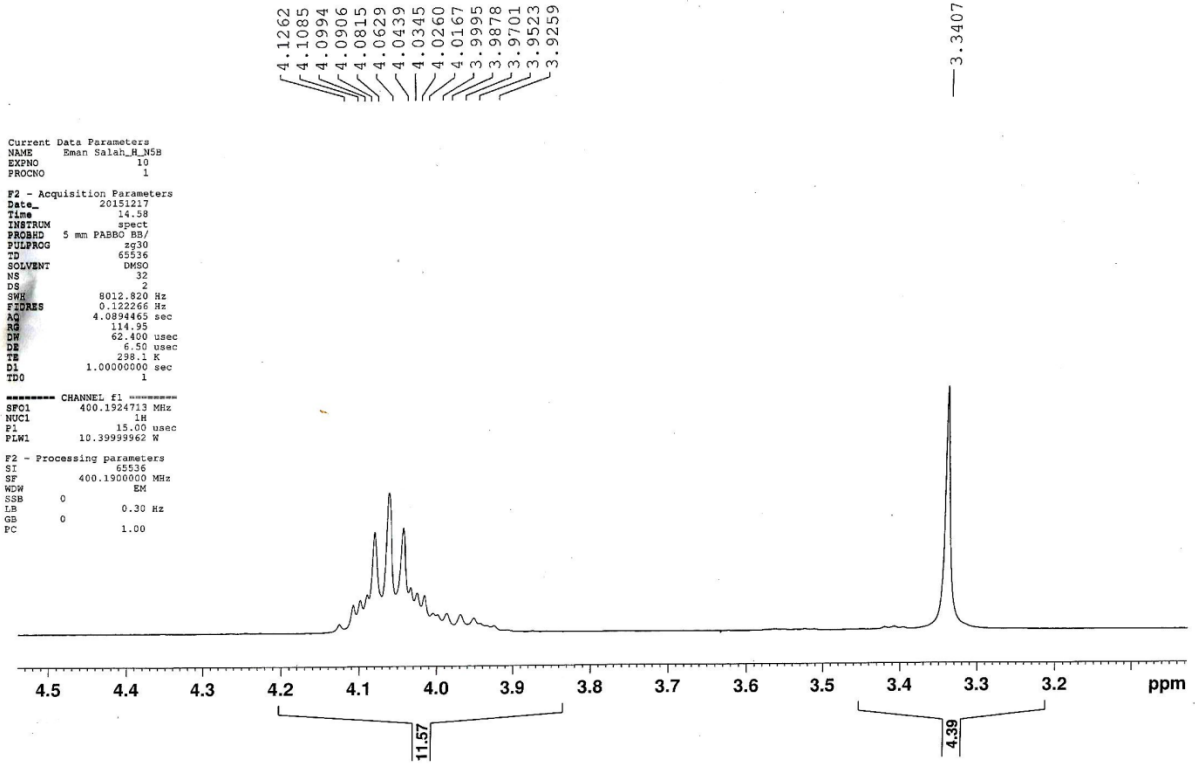
F2 - Acquisition Parameters
Date_ 20151217
Time 14.58
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0994465 sec
RG 114.95
DM 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TDO 1

----- CHANNEL f1 -----
SF01 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00









8.2275
8.2119
8.1934

7.9439
7.9258
7.9077

7.7812
7.7611

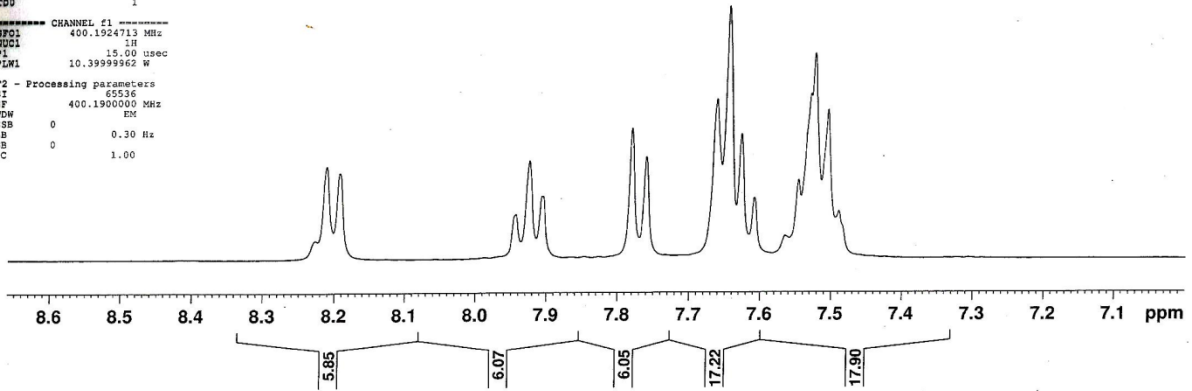
7.6626
7.6463
7.6277
7.6093
7.5657
7.5475
7.5304
7.5248
7.5060
7.4899

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Current Data Parameters
NAME Eman Salah_M_NSB
EXPNO 10
PROCNO 1

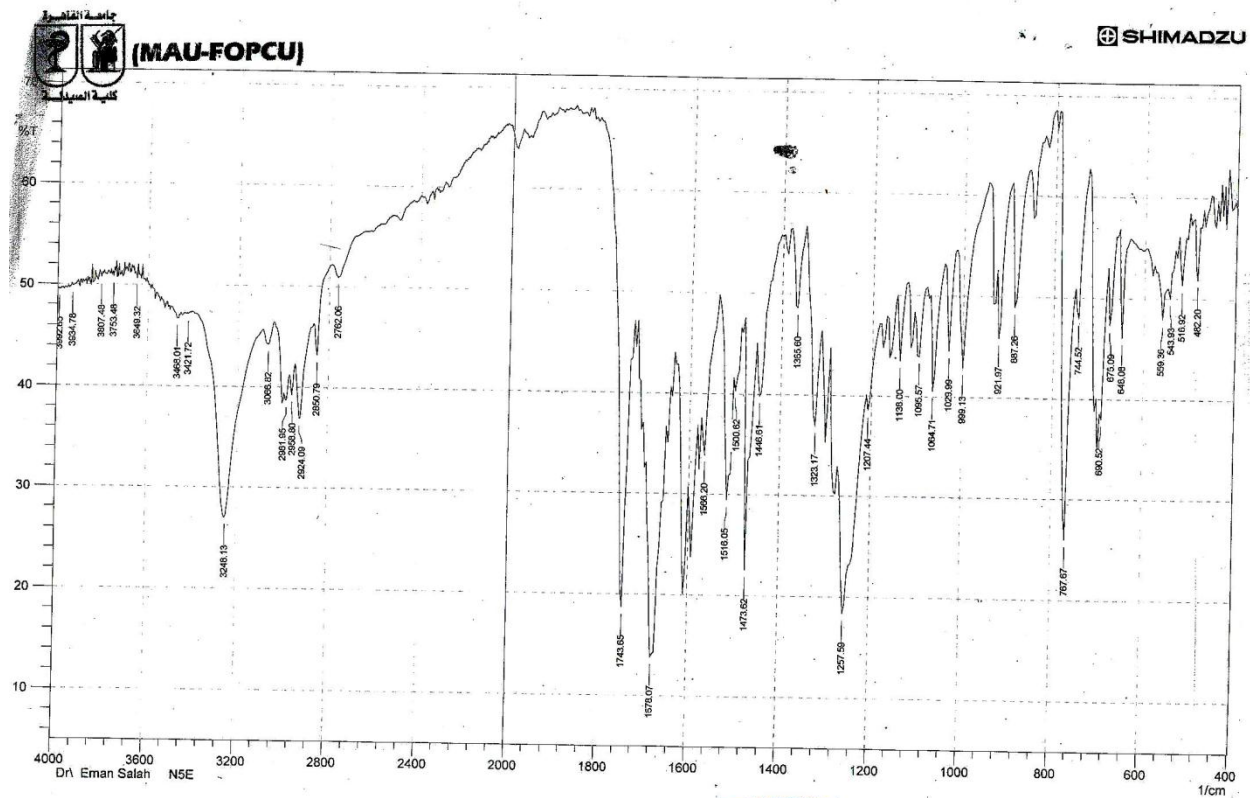
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Date_ 20151217
Time 14.38
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PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 32
DS 2
SWS 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
SI 114.95
CW 62.400 usec
DE 8.50 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999862 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SBS 0
LB 0.30 Hz
GB 0
PC 1.00
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IR from reaction of the ester 6 with etanolamine



iment;
Eman Salah N5E

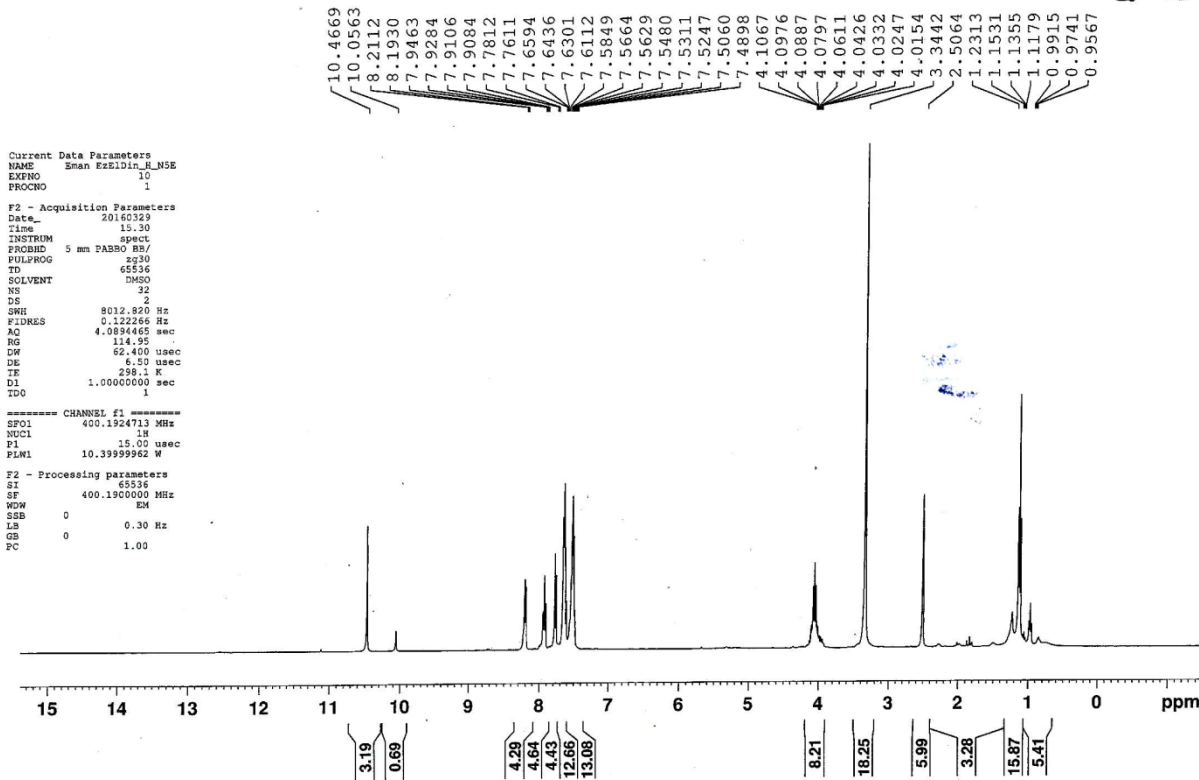
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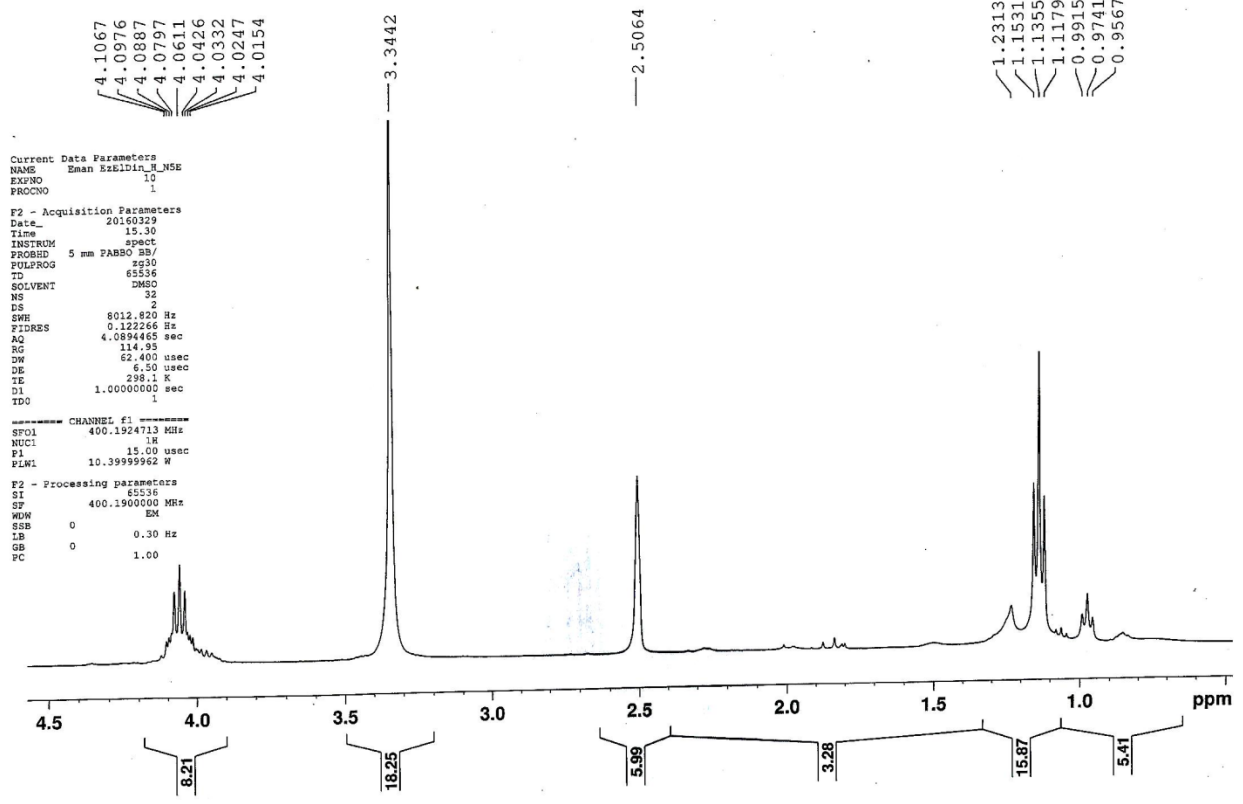


Date/Time; 12/13/2015 10:15:27 AM
User; Usama

¹H-NMR from reaction of the ester 6 with etanolamine

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8.2112
8.1930

7.9463
7.9284
7.9106
7.9084

7.7812
7.7611
7.6594

7.6436
7.6301
7.6112

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7.5629

7.5480
7.5311
7.5247

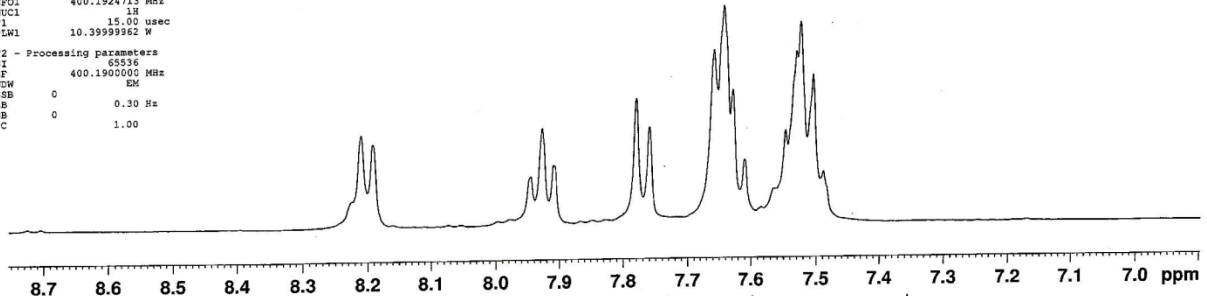
7.5060
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Current Data Parameters
NAME Eman EzEIdir_M5E
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
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Time 15.30
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 114.95
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PL1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0 0.30 Hz
LB 0
GB 1.00
PC



D₂O

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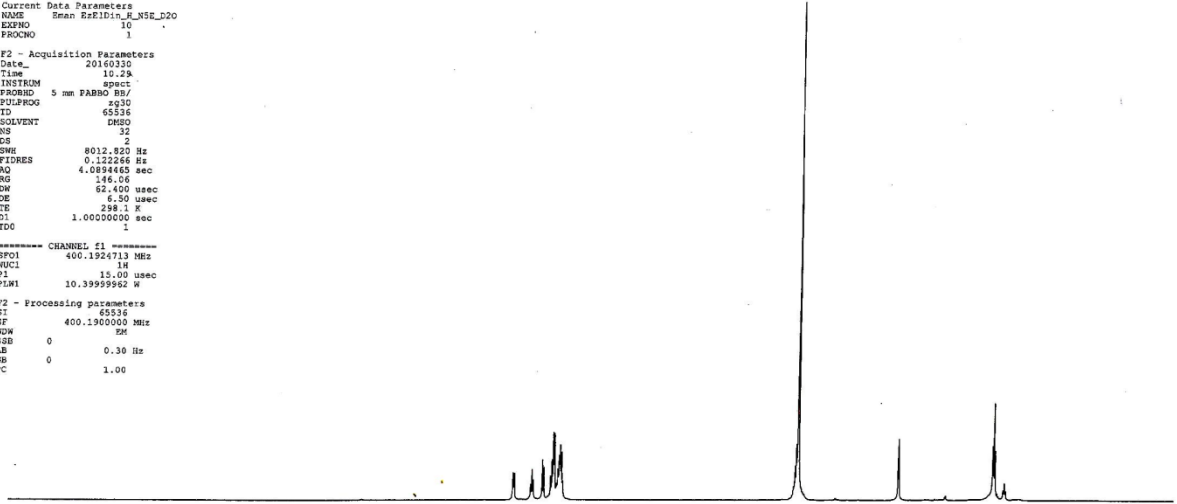
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Current Data Parameters
NAME      Emar R2FIDin_R_NSE_D2O
EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
Date_    20160330
Time     15:28
INSTRUM  spect
PROBHD   5 mm F400 RB/
PULPROG  zg30
ID       65536
SOLVENT  DMSO
NS       32
DS       2
SWH      8012.820 Hz
FIDRES   0.122266 Hz
AQ       4.0884465 sec
RG       146.06
DW       62.400 usec
DE       5.50 usec
TE       298.1 K
D1       1.0000000 sec
TD0      1

----- CHANNEL f1 -----
SFO1     400.1924713 MHz
NUC1     1H
P1       15.00 usec
PLM1     10.39999962 W

F2 - Processing parameters
SI       65536
SF       400.1900000 MHz
WDW      EM
SSB      0
LB       0.30 Hz
GB       0
PC       1.00
```

8.1768
8.1579
7.9178
7.8993
7.8812
7.7491
7.7289
7.6284
7.6094
7.5912
7.5742
7.5414
7.5227
7.5053
7.4924
7.4740
7.4573
4.0612
4.0521
4.0346
4.0169
3.9865
3.9394
2.5080
1.1047
1.0871
1.0696
0.9485
0.9311
0.9138



15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 ppm

4.44
4.49
4.51
26.05
38.69
6.05
12.67
3.10

D20

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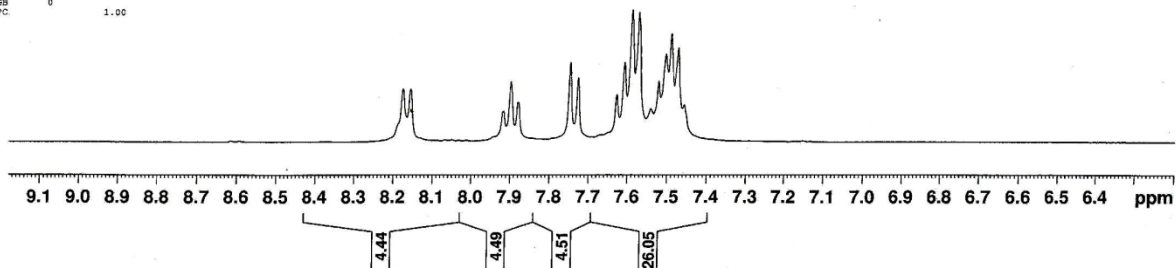
8.1768
8.1579
7.9178
7.8993
7.8812
7.7491
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7.6094
7.5912
7.5742
7.5414
7.5227
7.5053
7.4924
7.4740
7.4573

```
Current Data Parameters
NAME      Eman EzkIdin_MNS8_D20
EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
Date_    20160330
Time     10.22
INSTRUM  spect
PROBHD   5 mm FAREO BBI/
PULPROG  zg30
TD       65536
SOLVENT  DMSO
NS       32
DS       2
SWH      8012.820 Hz
FIDRES   0.122266 Hz
AQ       4.0834665 sec
RG       146.08
DW       62.400 usec
DE       6.50 usec
TE       298.1 K
DS       1.00000000 sec
TDO      1

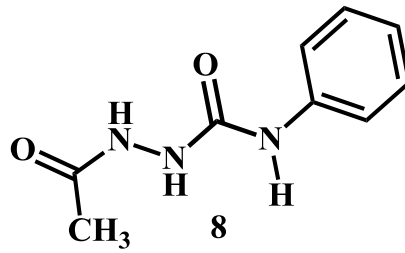
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NUC1     1H
P1       15.00 usec
PLH1     10.39939962 W

F2 - Processing parameters
SI       65536
SF       400.1900000 MHz
WDW      EM
SSB      0
LB       0.30 Hz
GB       0
PC       1.00
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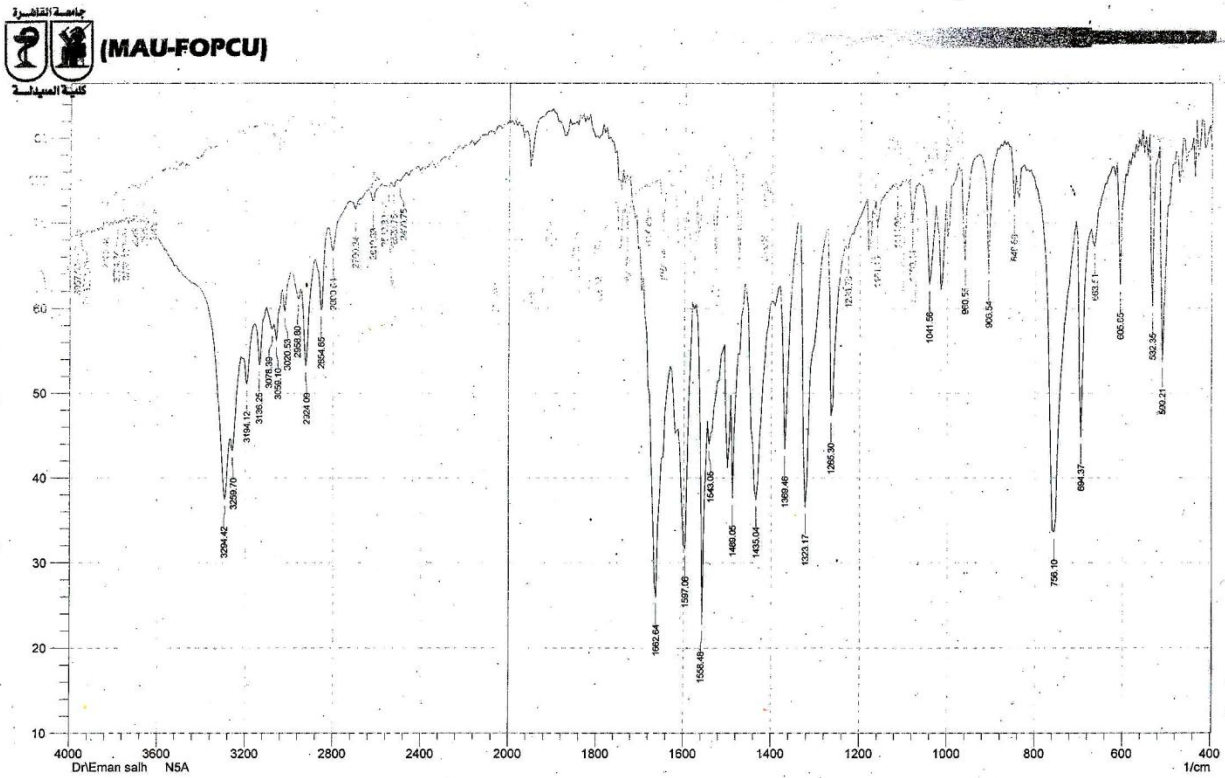


Compound 8

2-acetyl-N-phenylhydrazinecarboxamide



IR of compound 8



Comment;
DrEman salh NSA

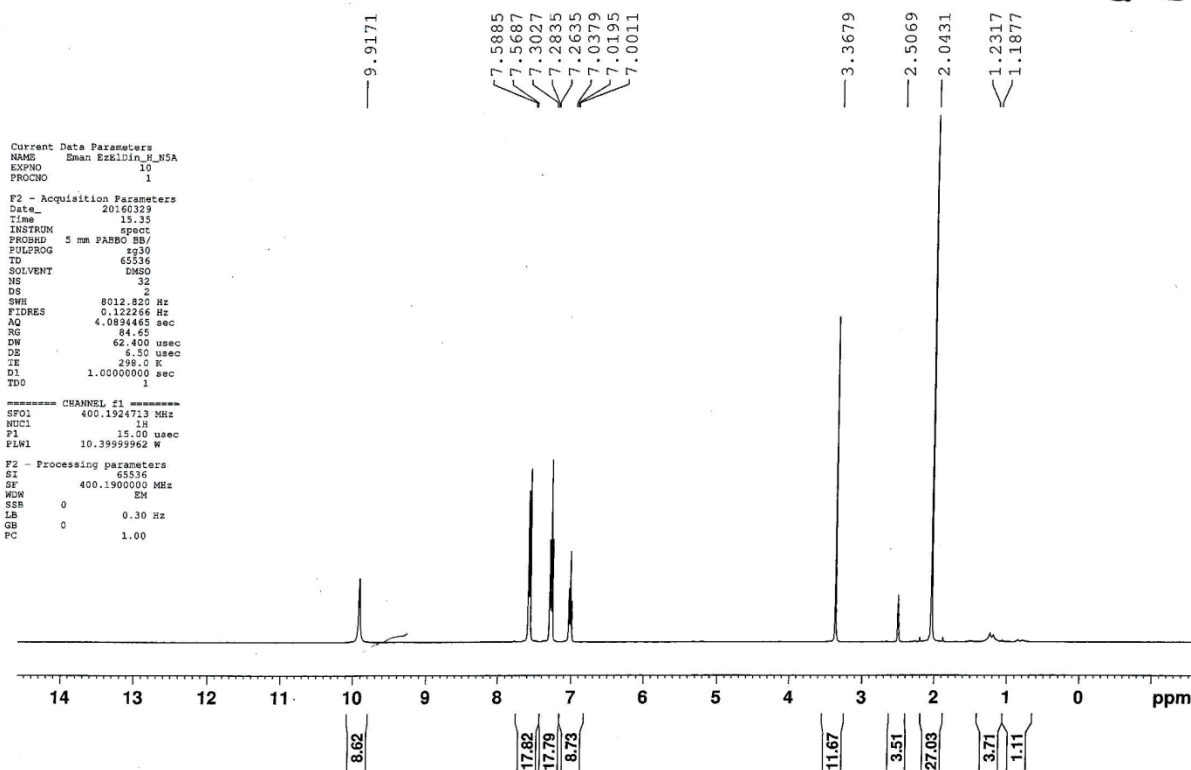
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Resolution; 8 [1/cm]

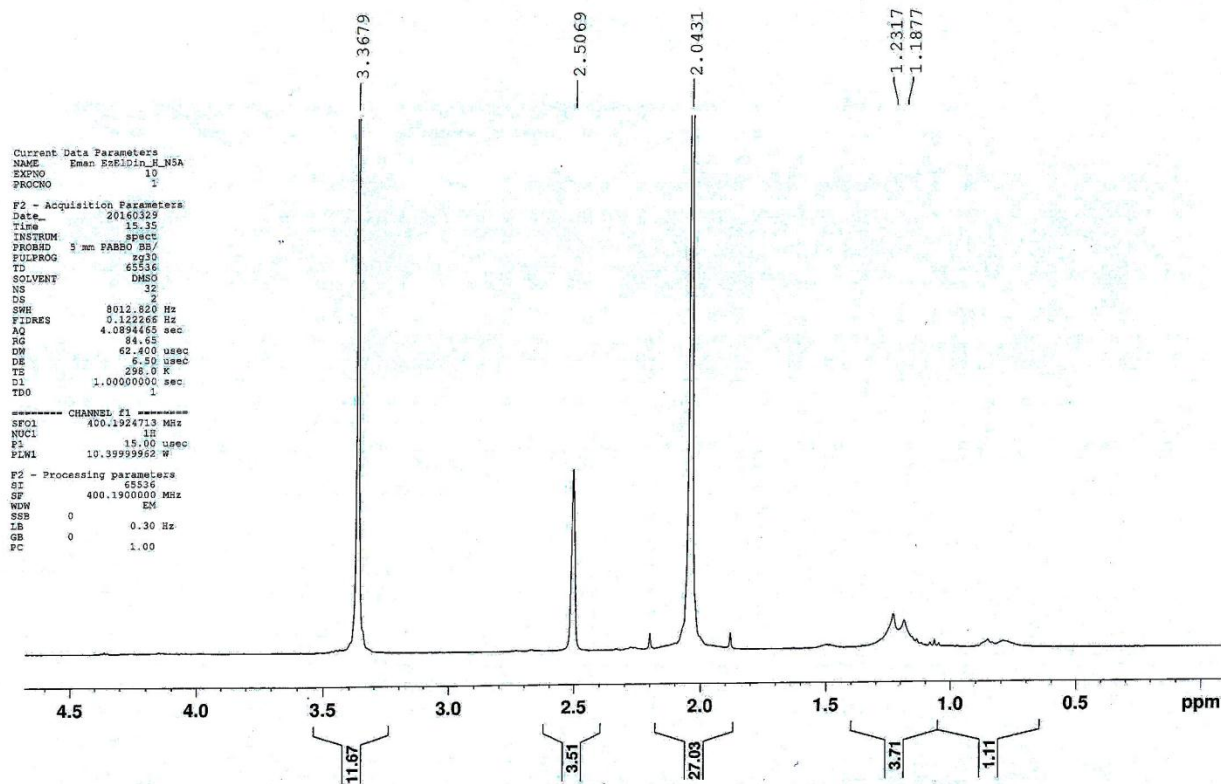


Date/Time; 11/30/2015 9:02:05 AM
User; Usama

¹H-NMR of compound 8

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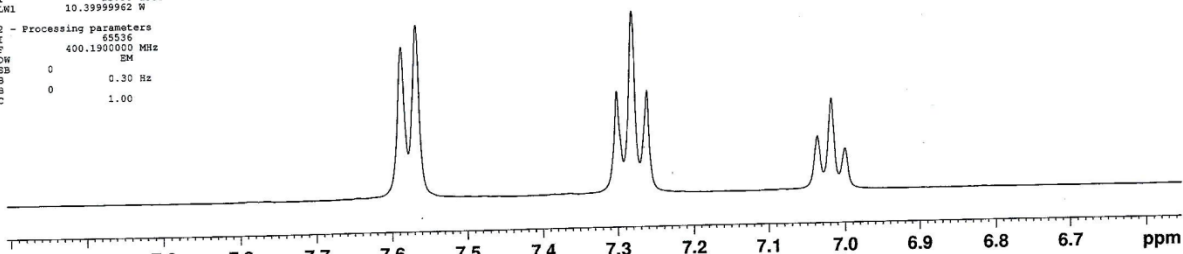






7.5885
7.5687
7.3027
7.2835
7.2635
7.0379
7.0195
7.0011

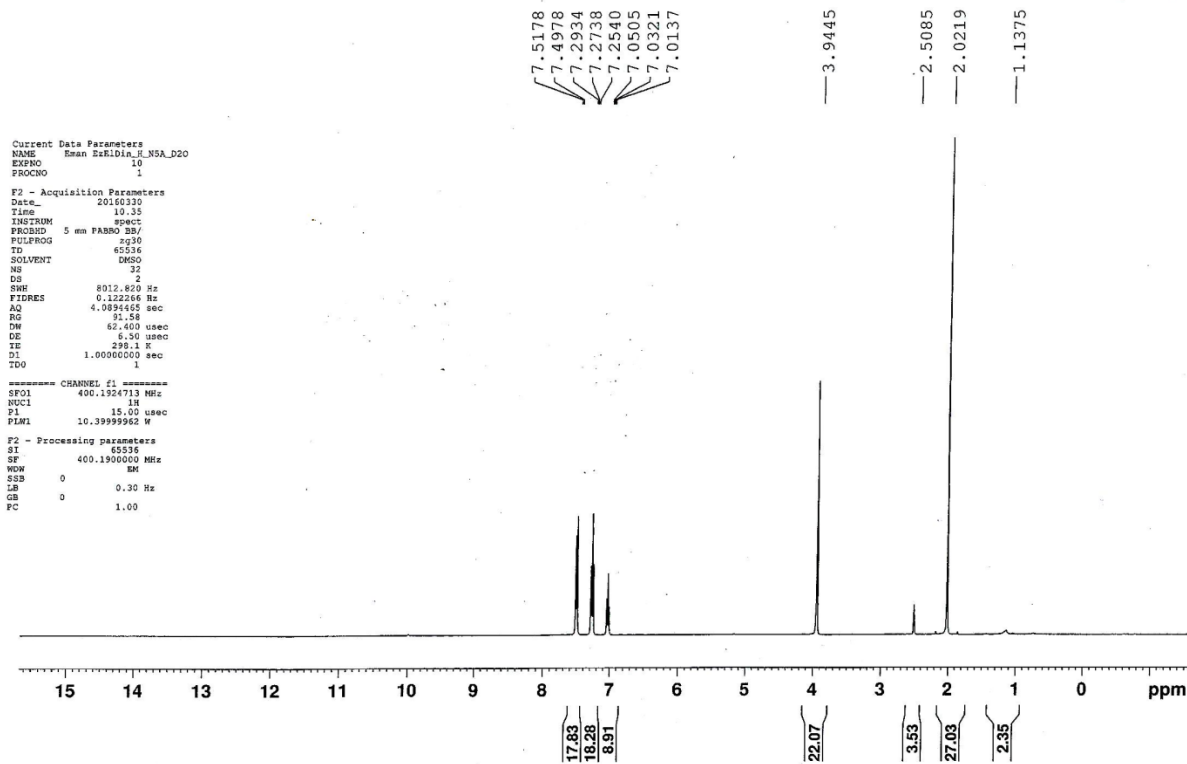
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EXPNO 10
PROCNO 1
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Time 15.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 64.65
DM 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TDO 1
----- CHANNEL f1 -----
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W
F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



D₂O

.D2O

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D2O

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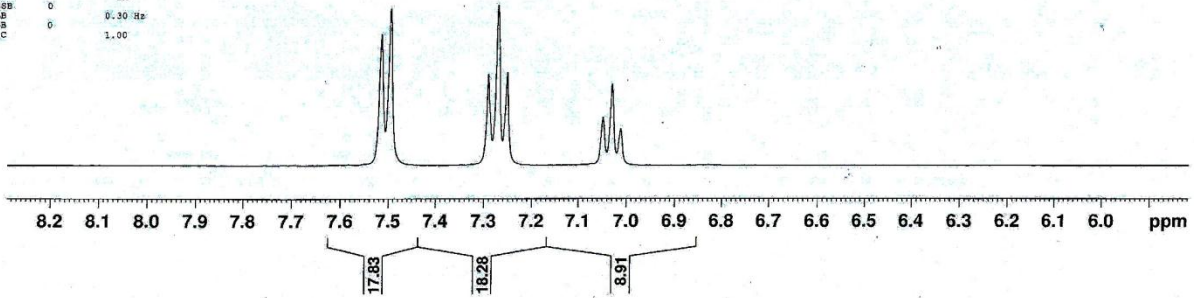
7.5178
7.4978
7.2934
7.2738
7.2540
7.0505
7.0321
7.0137

Current Data Parameters
NAME Emar Eskidin_8_NSA_D2O
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160330
Time 15.33
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.680485 sec
RG 91.58
AQ 62.400 usec
DE 4.50 usec
TE 298.2 K
SI 1.00000000 sec
TD 1

----- CHANNEL f1 -----
SFO1 400.1924713 MHz
NUC1 13
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹³C-NMR of compound 8

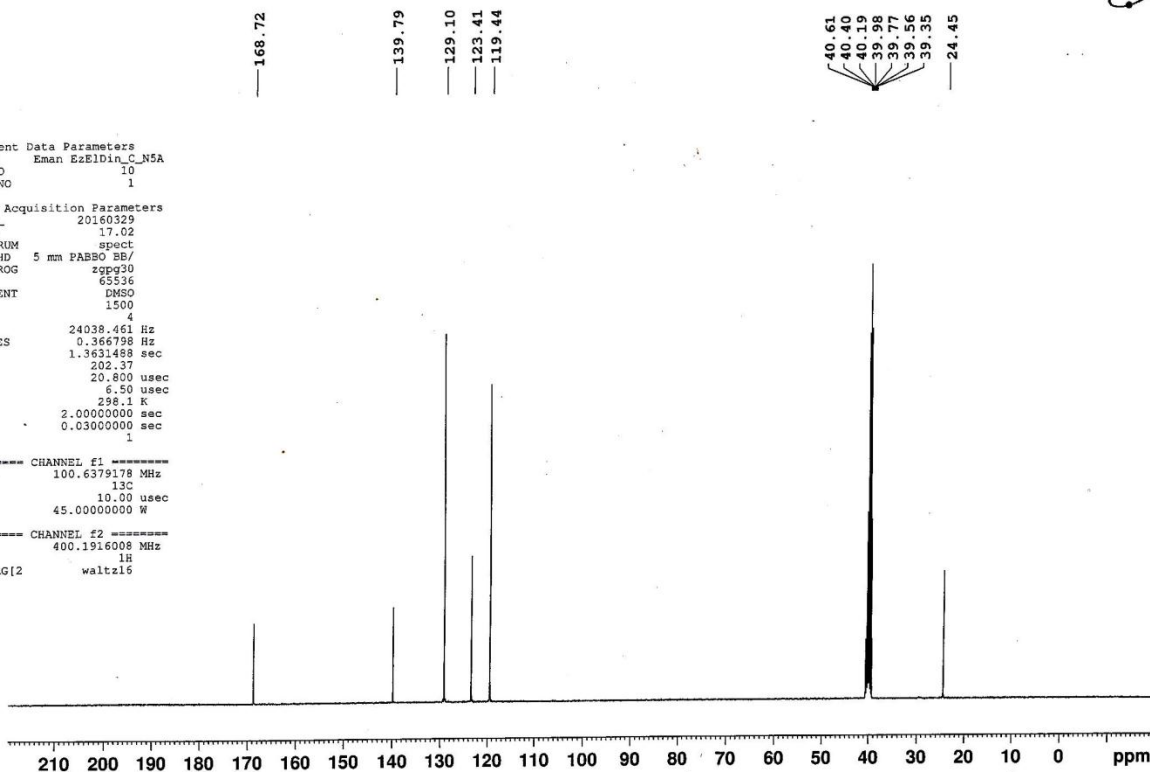
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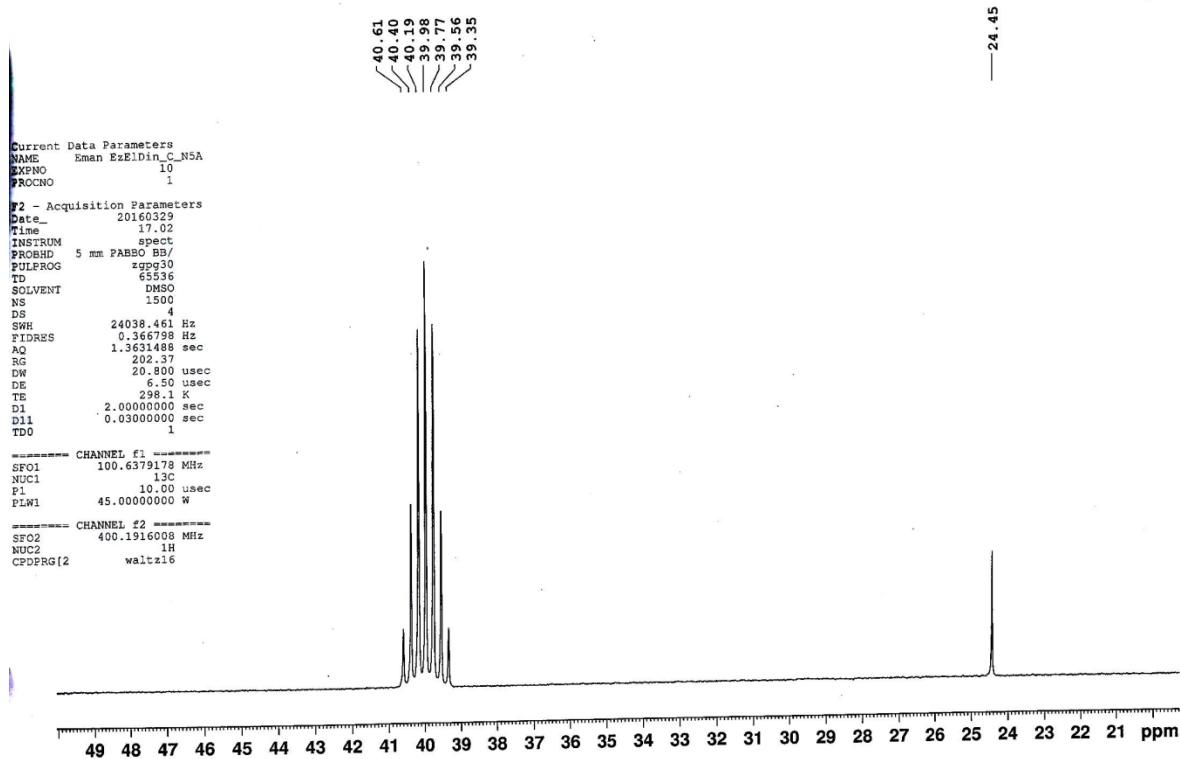


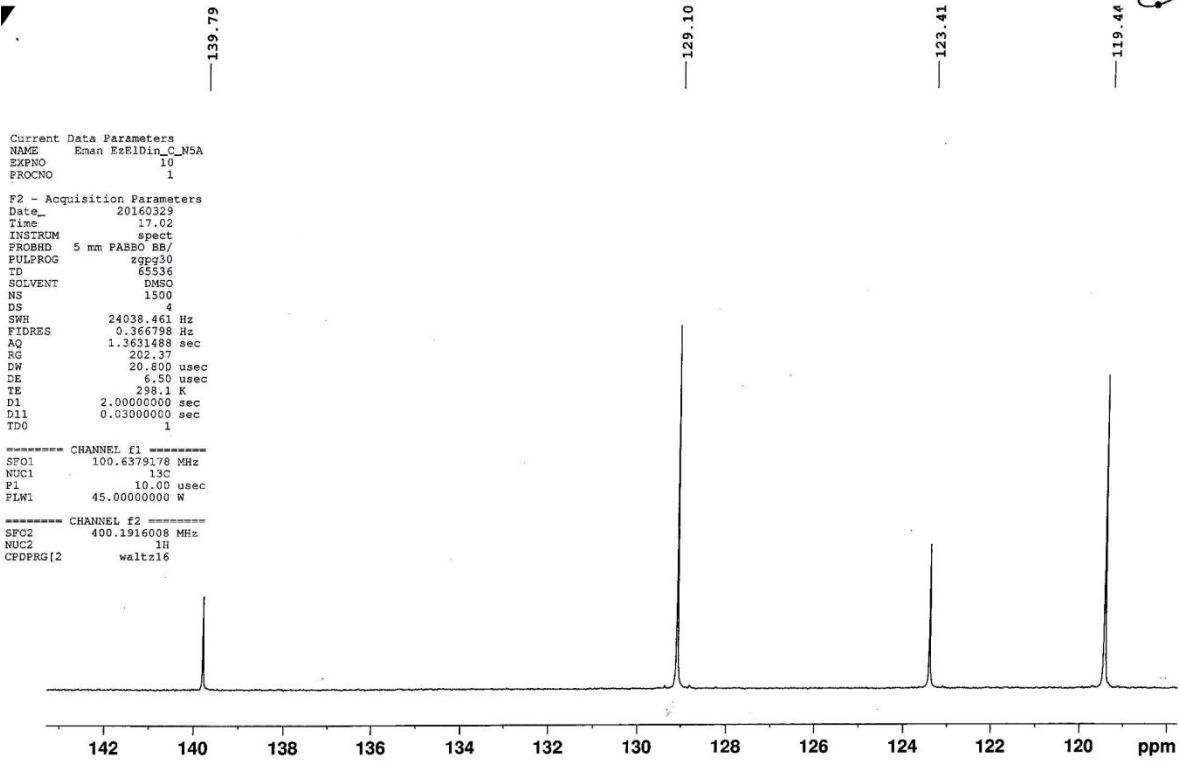
Current Data Parameters
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EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160329
Time 17.02
INSTRUM spect
PROBHD 5 mm PABSO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.1 K
D1 2.0000000 sec
D11 0.0300000 sec
TDO 1

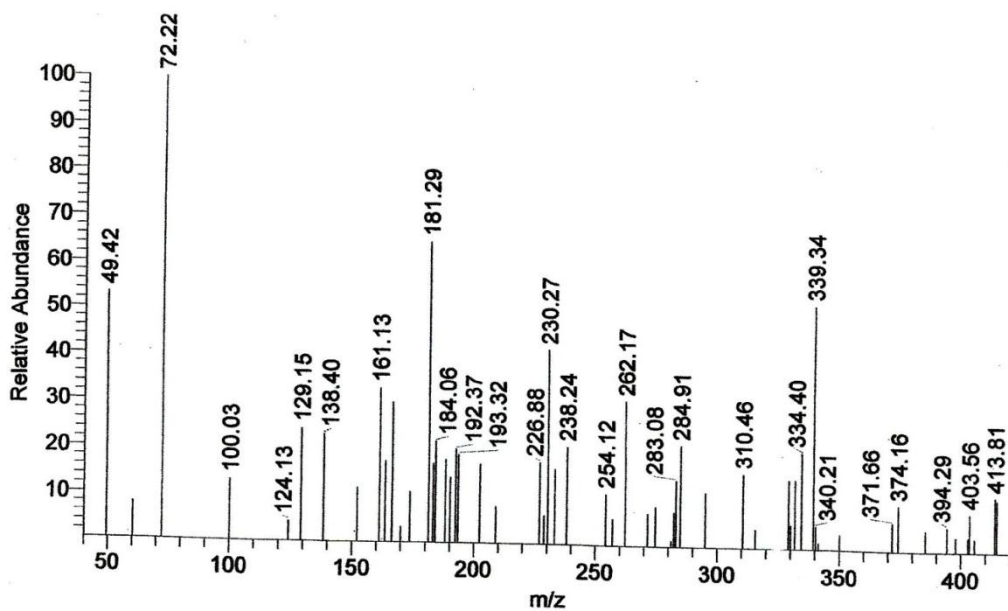
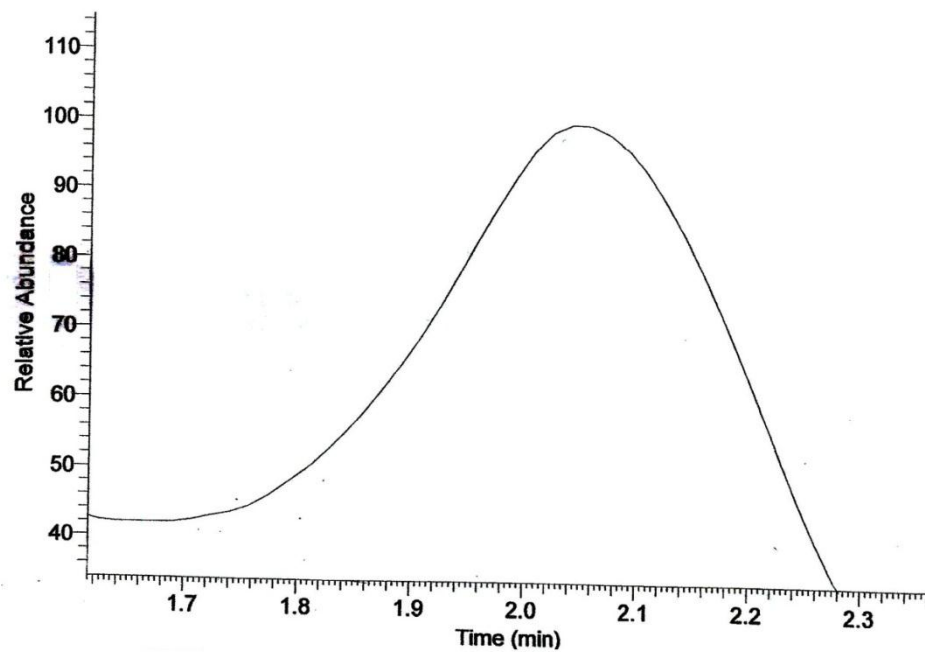
----- CHANNEL f1 -----
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W
----- CHANNEL f2 -----
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16







EI-MS of compound 8



H-N5A_151126112734#218 RT: 3.67

95 , 4.94

0} + c EI Full ms [40.00-1000.00]

40.00-421.35

m/z	Intensity	Relative
49.42	1094.2	53.19
60.31	162.9	7.92
72.22	2057.2	100.00
100.03	269.2	13.08
124.13	88.2	4.29
129.15	500.0	24.30
138.40	477.3	23.20
152.14	241.2	11.72
161.13	683.1	33.20
163.42	361.7	17.58
166.28	620.8	30.17
170.01	68.8	3.34
173.61	227.3	11.05
181.29	1339.2	65.10
183.14	352.5	17.14
184.06	450.0	21.88
188.14	370.8	18.02
190.08	292.9	14.24
192.37	416.9	20.27
193.32	393.6	19.13
202.34	353.1	17.16
208.95	166.1	8.08
226.88	363.0	17.65
228.75	128.0	6.22
230.27	862.3	41.92
233.27	335.6	16.32
238.24	434.6	21.13
254.12	230.2	11.19
257.02	119.9	5.83
262.17	641.2	31.17
271.47	144.7	7.03
274.66	177.1	8.61
281.12	25.1	1.22
282.27	153.3	7.45
283.08	294.4	14.31
284.91	449.3	21.84
295.17	245.9	11.95
310.46	327.6	15.92
315.54	84.8	4.12
329.24	307.8	14.96
330.05	108.3	5.27
331.76	309.4	15.04
334.40	429.0	20.85
339.34	1085.1	52.75
340.21	106.4	5.17
341.31	31.1	1.51
350.00	72.3	3.51
371.66	128.8	6.26
374.16	205.5	9.99
385.28	98.0	4.76
394.29	113.1	5.50

MSA 151126112734#218 RT: 3.67

, 4.94

+ c EI Full ms [40.00-1000.00]
40.00-421.35

z	Intensity	Relative
.88	67.5	3.28
.86	68.3	3.32
.56	172.3	8.37
.53	63.3	3.08
.81	249.6	12.13
.53	236.3	11.48

