***In vitro* Anti-oxidant Potential of New Metabolites from *Hypericum oblongifolium* (Guttiferae)**

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Abstract

Phytochemical investigations on *Hypericum oblongifolium* led to the isolation of a flavone named folicitin (**1**) and a bicyclic conjugated lactone, folenolide (**2**) from the ethyl acetate fraction of methanolic extract. Both metabolites were characterized as new compounds based on detailed spectroscopic analyses. *In vitro* anti-oxidant potential of both the compounds was evaluated by the DPPH radical scavenging assay. Compound **1** exhibited significant antioxidant activity while compound **2** was found inactive.

Table S1: ^1H and ^{13}C -NMR data of folecitin (**1**)

POSITION	^1H	^{13}C
1	-	-
2	-	158.6
3	-	136.2
4	-	179.7
5	-	163.3
6	6.19 (d, $J = 2.0$ Hz)	99.8
7	-	145.6
8	6.37 (d, $J = 2.0$ Hz)	94.7
9	-	-
10	-	105.9
1'	-	122.9
2'	7.33 (d, $J = 2.0$ Hz)	116.9
3'	-	145.6
4'	-	149.8
5'	6.90 (d, $J = 8.0$ Hz)	116.4
6'	7.30 (dd, $J = 8.0, 2.0$ Hz)	122.8
1''	-	-
2''	5.34 (d, $J = 1.5$ Hz)	103.5
3''	4.21 (dd, $J = 3.5, 1.5$ Hz)	71.9
4''	3.39 (m)	73.2
5''	3.73 (dd, $J = 9.5, 3.5$ Hz)	72.0
6''	3.42 (m)	72.1
7''	0.93 (d, $J = 6.0$ Hz)	17.7

Table S2: ^1H and ^{13}C -NMR data of folenolide (**2**)

POSITION	^1H	^{13}C
1	-	-
2	3.98 (m)	69.0
3	3.73 (q, $J = 4.0$ Hz)	73.6
4	4.40 (t, $J = 4.5$ Hz)	68.4
5	6.75 (t, $J = 2.0$ Hz)	139.3
6	-	133.0
7	-	173.0
8	2.18 (ddt, $J = 17.5, 6.5, 1.5$ Hz), 2.70 (ddt, $J = 18, 5.5, 1.5$ Hz)	33.0

Figure S1: Key HMBC correlations in **1**

Figure S2: COSY correlations in **1**

NAILA RAZIA/DR. SHATQ/NR-03/CD3OD
 ICCBS/U.O.K
¹H

NR-03 = Compound 1

```

NAME          nev30-13
EXPNO         3
PROCNO        1
Date_         20131130
Time_         10.49
INSTRUM       spect
PROBHD        5 mm GPCUL 13C
PULPROG       zg30
ID            32768
SOLVENT       MeOD
NS            16
DS            0
SWH           10000.000 Hz
FIDRES        0.1305176 Hz
AQ            1.6385000 sec
RG            90.5
DA            50.000 usec
DE            6.50 usec
TE            298.3 K
D1            2.00000000 sec
TDD           1
  
```

```

===== CHANNEL f1 =====
NUC1          1H
P1            16.50 usec
PL1           0.50 dB
PL1W          14.09191513 W
SFO1          500.13035023 MHz
S1            32768
SF            500.1300145 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

NAILA RAZIQ/DR.SHAIQ/NR-03
BB

NAME dec23-13
EXPNO 6
PROCNO 1
Date_ 20131224
Time_ 6.29
INSTRUM spect
PROBHD 5 mm CPTCI 1H-
PULPROG zgpg
TD 32768
SOLVENT MeOD
NS 12289
DS 4
SWH 35971.223 Hz
FIDRES 1.097755 Hz
AQ 0.4555391 sec
RG 32768
DW 13.900 usec
DE 6.50 usec
TE 297.8 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 12

===== CHANNEL f1 =====
NUC1 13C
P1 12.70 usec
PL1 -1.81 dB
PL1W 81.92915344 W
SFO1 150.8950149 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 3.31 dB
PL12 23.31 dB
PL13 22.50 dB
PL2W 6.79873323 W
PL12W 0.06798734 W
PL13W 0.08192718 W
SFO2 600.0336002 MHz
SI 16384
SF 150.8774509 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.00

AVANCE AV 600-LG
CRYOPROBE
LAB NO: 100

NAILA RAZIQ/DR.SHAHQ/NR-03
deptsp135

—122.843
—116.905
—116.362

—103.552
—99.843
—94.725

73.238
72.107
72.042
71.903
49.847
49.565
49.425
49.283
49.136
49.000
48.853
48.719
48.571

—17.657

NAME dec23-13
EXPNO 7
PROCNO 1
Date 20131224
Time 14.57
INSTRUM spect
PROBHD 5 mm CPDCl 1H-
PULPROG deptsp135
TD 32768
SOLVENT MeOD
NS 2534
DS 2
SWH 30303.031 Hz
FIDRES 0.924775 Hz
AQ 0.5407385 sec
RG 32768
OW 16.500 usec
DE 6.50 usec
TE 297.8 K
CNST2 145.0000000
D1 1.5000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 6

===== CHANNEL f1 =====
NUC1 13C
P1 12.70 usec
P12 2000.00 usec
PL0 120.00 dB
PL1 -1.61 dB
PL0W 0.00000000 W
PL1W 81.92915344 W
SFO1 150.8527518 MHz
SP2 4.19 dB
SPNAM2 Crp60comp.4
SFOAL2 0.500
SFOF82 0.00 Hz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 8.00 usec
P4 16.00 usec
PCPD2 80.00 usec
PL2 3.31 dB
PL12 23.31 dB
PL2W 6.75673323 W
PL12W 0.06798734 W
SFO2 600.0330002 MHz
SI 16384
SF 150.8774505 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

AVANCE AMX-400-LC
CRYOPROBE
LAB NO: 108

NAILA RAZIQ/DR.SHAIQ/NR-03
deptsp 90

—122.845
—116.912
—116.365

—103.555
—99.847
—94.726

73.239
72.107
72.043
71.905

49.565
49.423
49.283
49.136
49.000
48.854

NAME dec23-13
EXPNO 8
PROCNO 1
Date_ 20131224
Time 15.55
INSTRUM spect
PROBHD 5 mm CPTCT 1H-
PULPROG deptsp90
TD 32768
SOLVENT MeCD
NS 533
DS 2
SWH 30303.031 Hz
FIDRES 0.924775 Hz
AQ 0.5407385 sec
RG 32768
CW 16.500 usec
DE 6.50 usec
TE 297.9 K
CNST2 145.0000000
D1 1.50000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 4

===== CHANNEL f1 =====
NUC1 13C
P1 12.70 usec
P12 2000.00 usec
PL0 120.00 dB
PL1 -1.81 dB
FLOW 0.00000000 W
PL1W 81.42915344 W
SFO1 150.8927318 MHz
SP2 4.19 dB
SPNAM2 Crp60comp.4
SFOAL2 0.500
SFOFFS2 0.00 Hz

===== CHANNEL f2 =====
CFDPRG2 waltz16
NUC2 1H
P3 8.00 usec
P4 16.00 usec
PCPD2 80.00 usec
PL2 3.31 dB
PL12 23.31 dB
PL2W 6.79873323 W
PL12W 0.06798734 W
SFO2 600.0330002 MHz
ST 16384
SF 150.8774509 MHz
WDW EM
SSB 0
LB 1.00 Hz
CB 0
PC 1.40

170 160 150 140 130 120 110 100 90 80 70 60 50 40 ppm

NAILA RAZIQ/DR.SHAIQ/NR-03
hsqc

AVANCE AV-600-LC
CRYOPROBE
LAB NO: 108

NAME dec23-13
EXPNO 4
PROCNO 1
Date_ 20131223
Time 19.50
INSTRUM spect
PROBHD 5 mm CPTCI 1H-
PULPROG hsqcetgpsi
TD 1024
SOLVENT MeOD
NS 32
DS 8
SWH 5387.931 Hz
FIDRES 5.261652 Hz
AQ 0.0951700 sec
RG 46341
DW 92.800 usec
DE 6.50 usec
TE 297.9 K
CNST2 145.0000000
D0 0.00000300 sec
D1 2.00000000 sec
D4 0.00172414 sec
D11 0.03000000 sec
D13 0.00000400 sec
D16 0.00020000 sec
D24 0.00110000 sec
IN0 0.00001655 sec
ZGPTNS
----- CHANNEL f1 -----
NUC1 1H
P1 8.00 usec
P2 16.00 usec
P28 1000.00 usec
PL1 3.31 dB
PL1W 6.7987323 W
SFO1 600.0327001 MHz
----- CHANNEL f2 -----
CPDPRG2 garp
NUC2 13C
P3 11.50 usec
P4 23.00 usec
PCPD2 55.00 usec
PL2 -1.81 dB
PL12 11.70 dB
PL2W 81.92915344 W
PL12W 3.65122390 W
SFO2 150.8927518 MHz
----- GRADIENT CHANNEL -----
GPNAM1 SINE.100
GPNAM2 SINE.100
GPZ1 80.00 %
GPZ2 20.10 %
GFC 1000.00 usec

AVANCE AV-600-LC
CRYOPROBE
LAB NO: 108

NAME dec23-13
EXPNO 5
PROCNO 1
Date_ 20131224
Time 0.40
INSTRUM spect
PROBHD 5 mm CPTCI 1H
PULPROG hmbcgp1pndqf
TD 2048
SOLVENT MeOD
NS 32
DS 16
SWH 5387.931 Hz
FIDRES 2.630826 Hz
AQ 0.1901972 sec
RG 41285.1
DW 92.800 usec
DE 6.50 usec
TE 297.6 K
CNST2 145.0000000
CNST13 13.0000000
DC 0.00000300 sec
D1 2.00000000 sec
D2 0.00344828 sec
D6 0.03846154 sec
D1G 0.00015000 sec
D1G 0.00001440 sec
----- CHANNEL f1 -----
NUC1 1H
P1 8.00 usec
P2 16.00 usec
PT1 3.31 dB
PL1W 6.79873323 W
SFO1 600.0327001 MHz
----- CHANNEL f2 -----
NUC2 13C
P3 11.50 usec
PL2 -1.81 dB
PT2W 81.92915344 W
SFO2 150.8950149 MHz
----- GRADIENT CHANNEL -----
GPAM1 SINE.100
GPAM2 SINE.100
GPAM3 SINE.100
GPZ1 50.00 %
GPZ2 30.00 %
GPZ3 40.10 %
F1G 2000.00 usec
ND0 2
TD 256
SFO1 150.893 MHz
FIDRES 135.569733 Hz
SW 250.000 ppm
F2-MODE OF

NAILA RAZIQ/DR.SHATQ/NR-03
cosy

AVANCE AV-800-LC
CRYOPROBE
LAB NO: 108

NAME dec23-13
EXPNO 2
PROCNO 1
Date_ 20131223
Time 15.25
INSTRUM spect
PROBHD 5 mm CPTCI 1H-
PULPROG cosydfqf
TD 2048
SOLVENT MeOD
NS 16
DS 4
SWH 5387.931 Hz
FIDRES 2.630826 Hz
AQ 0.1901972 sec
RG 14.3
DW 92.800 usec
DE 6.50 usec
TE 298.0 K
DO 0.00000300 sec
E1 1.50000000 sec
D13 0.00000400 sec
D20 0.00000200 sec
IN0 0.00018520 sec

----- CHANNEL f1 -----
NUC1 1H
P1 8.00 usec
PL1 3.31 dB
PL1W 6.79873323 W
SFO1 600.0327001 MHz
ND0 1
TD 128
SFO1 600.0327 MHz
FIDRES 42.189600 Hz
SW 9.000 ppm
RMODE QF
SI 1024
SF 600.0300172 MHz
WDW QSINE
SSB 0
LB 0.00 Hz
GB 0
PC 4.00
SI 1024
MC2 QF
SF 600.0300172 MHz
WDW QSINE
SSB 0
LB 0.00 Hz
GB 0

NAILA RAZIQ/DR.SHAIQ/NR-03
noesy

AVANCE AV-600-LC
CRYOPROBE
LAB NO: 103

NAME dec23-13
EXPNO 3
PROCNO 1
Date_ 20131223
Time_ 16.24
INSTRUM spect
PROBHD 5 mm CPIC1 1H-
PULPROG noesygpph
TD 2048
SOLVENT MeOD
NS 16
DS 4
SWH 5387.931 Hz
FIDRES 2.630826 Hz
AQ 0.1901972 sec
RG 25.4
DW 92.000 usec
DE 6.50 usec
TE 298.0 K
D0 0.00008261 sec
D1 2.00000000 sec
D8 0.80000001 sec
DL6 0.00020000 sec
IN0 0.00018560 sec

===== CHANNEL f1 =====
NUC1 1H
P1 8.00 usec
P2 16.00 usec
PL1 3.11 dB
PL1W 6.79873323 W
SFO1 600.0327001 MHz

===== GRADIENT CHANNEL =====
GPNAM1 SINE.100
GPNAM2 SINE.100
GPZ1 40.00 %
GPZ2 -40.00 %
P16 1000.00 usec
ND0 1
TO 256
SFO1 600.0327 MHz
FIDRES 21.046406 Hz
SW 6.979 ppm
FMODE States-TPPI
SI 1024
SF 600.0300172 MHz
WDW SINE
SSB 2
LB 0.00 Hz
GB 0
PC 4.00
SI 512
MC2 States-TPPI
SF 600.0300172 MHz
WDW SINE
SSB 2
IP 0.00 Hz
GB 0

File: NR-03
Sample: NAILA RAZIA/DR. SHAIQ
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 12-05-2013 (Time Run: 15:47:28)

Ionization mode: EI+

Scan: 24

R.T.: 2.05

Base: m/z 302; 99.9%FS TIC: 4289376

#Ions: 136

NAILA RAZIA/DR.SHAHQ ALI/NR-01/D2O
ICCBS/U.O.K

AVANCE AV-500
LAB NO:118

6.762
6.759
6.755
6.751
6.747
4.412
4.404
4.395
4.008
3.995
3.992
3.984
3.981
3.979
3.968
3.739
3.730
3.722
3.714
2.723
2.720
2.717
2.712
2.709
2.706
2.686
2.683
2.680
2.676
2.673
2.670
2.206
2.203
2.199
2.193
2.190
2.186
2.170
2.166
2.163

NAME dec20-13
EXPNO 7
PROCNO 1
Date 20131220
Time 15.04
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpr
TD 65536
SOLVENT D2O
NS 16
DS 4
SWE 5000.000 Hz
FIDRES 0.076294 Hz
AQ 6.5537500 sec
RG 574.7
DW 100.000 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
D12 0.00002000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 1H
P1 8.13 usec
PL1 5.00 dB
PL2 59.80 dB
SFO1 500.2323493 MHz
S1 32768
SF 500.2299984 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

NR -01 = Compound 2

NAILA RAZIA/DR.SHAHQ ALI/NR-01/D2O
BB

AVANCE AV-500
LAB NO: 109B

—173.14

—139.34

—132.76

73.66
69.18
68.37

—33.04

NAME jan08-14
EXPNO 21
PROCNO 1
Date_ 20140108
Time 16.17
INSTRUM spect
PROBHD 5 mm BBI 1H/D-
PULPROG zgpg
TD 32768
SOLVENT D2O
NS 16384
DS 4
SWH 29498.525 Hz
FIDRES 0.900224 Hz
AQ 0.5554845 sec
RG 32768
DW 16.950 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 16

===== CHANNEL f1 =====
NUC1 13C
P1 12.00 usec
PL1 -3.00 dB
SFO1 125.7723529 MHz

===== CHANNEL f2 =====
CFDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 19.20 dB
PL13 22.00 dB
SFO2 500.1325007 MHz
SI 32768
SF 125.7574612 MHz
WDW EM
SSB G
LB 1.00 Hz
GB 0
PC 1.00

NAILA RAZIA/DR.SHAHQ ALI/NR-01/D2O
DEPT90

AVANCE AV-500
LAB NO: 109B

NAME jan08-14
EXPNO 23
PROCNO 1
Date 20140109
Time 9.25
INSTRUM spect
PROBHD 5 mm BBI 1H/D-
PULPROG deptsp90
TD 32768
SOLVENT D2O
NS 5120
DS 2
SWH 23809.523 Hz
FIDRES 0.726609 Hz
AQ 0.6881990 sec
RG 32768
DW 21.000 usec
DE 6.50 usec
TE 300.0 K
CNST2 145.0000000
D1 1.50000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 5

----- CHANNEL f1 -----
NUC1 13C
P1 12.00 usec
P12 2000.00 usec
PL0 120.00 dB
PL1 -3.00 dB
SFO1 125.7697360 MHz
SP2 3.58 dB
SPNAM2 Crp60comp.4
SFOAL2 0.500
SPOFFS2 0.00 Hz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
P3 8.00 usec
P4 16.00 usec
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 19.20 dB
SFO2 500.1335009 MHz
SI 32768
SF 125.7574612 MHz
WDW EM
SSB 0
LR 1.00 Hz
GB 0
PC 1.40

NAILA RAZIA/DR.SHAHQ ALI/NR-01/D2O
DEPT135

AVANCE AV-500
LAB NO: 109B

139.33

73.84

69.16

68.35

33.02

NAME jan08-14
EXPNO 22
PROCNO 1
Date_ 20140109
Time 4.49
INSTRUM spect
PROBHD 5 mm BBI 1H/C-
PULPROG deptsp135
TD 32768
SOLVENT D2O
NS 7399
DS 2
SWH 23809.523 Hz
FIDRES 0.726609 Hz
AQ 0.6881990 sec
RG 32768
DW 21.000 usec
DE 6.50 usec
TE 300.0 K
CNST2 145.0000000
D1 1.50000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 9

===== CHANNEL f1 =====
NUC1 13C
P1 12.00 usec
P12 2000.00 usec
PL0 120.00 dB
PL1 -3.00 dB
SFO1 125.7697360 MHz
SP2 3.58 dB
SPNAM2 Crp60comp.4
SFOAL2 0.500
SPOFFS2 0.00 Hz

===== CHANNEL f2 =====
CEDPRG2 waltz16
NUC2 1H
P3 8.00 usec
P4 16.00 usec
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 19.20 dB
SFO2 500.1335009 MHz
SI 16384
SF 125.7574612 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB C
PC 1.00

140 130 120 110 100 90 80 70 60 50 40 30 ppm

NAME Jan07-14
EXPNO 16
PROCNO 1
Date 20140107
Time 22.22
INSTRUM spect
PROBHD 5 mm BBI 1H/13C-
PULPROG hsqcetqpsi
TD 1024
SOLVENT D2O
NS 32
DS 8
SWH 4006.410 Hz
FIDRES 3.912510 Hz
AQ 0.1279700 sec
RG 23170.5
DN 124.800 usec
DE 6.50 usec
TE 300.0 K
CNS12 145.0000000
U0 0.00000300 sec
U1 1.50000000 sec
U4 0.00172414 sec
D11 0.03000300 sec
D13 0.00000400 sec
D16 0.00020000 sec
D24 0.00110000 sec
LNO 0.00002070 sec
SCOPTMS

----- CHANNEL f1 -----
NUC1 13C
P1 6.00 usec
P2 10.00 usec
P29 1000.00 usec
PL1 -1.00 dB
RF01 500.1320305 MHz

----- CHANNEL f2 -----
CPDPRG2 garp
NUC2 13C
P3 12.00 usec
P4 24.00 usec
PCPD2 65.00 usec
PL2 -3.00 dB
PL12 11.67 dB
RF02 125.7697360 MHz

----- GRABTEM CHANNEL -----
GENAM1 SINE.100
GENAM2 SINE.100
GT21 80.00 %
GF22 20.10 %
P16 1000.00 usec
N20 2
TC 256
RF01 125.7697 MHz
FIDRES 94.327301 Hz
SW 182.000 ppm
F2MODE Echo-AntiEcho
S1 1024
SF 500.1300310 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 4.00
ST 1024
MC2 echo-antiecho
SF 125.7674610 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
CS 0

MAILA RAZIA/DR.SHAHQ ALI/NR-01/D2O
HMBC

AVANCE AV-500
LAB NO: 109B

NAME jan07-14
EXPNO 11
PROCNO 1
Date_ 20140108
Time_ 0.09
INSTRUM spect
PROBHD 5 mm BBI 1H/13
PULPROG hmcgpp1pndqf
TD 2048
SOLVENT D2O
NS 64
DS 8
SWH 4006.410 Hz
FIDRES 1.956255 Hz
AQ 0.2557652 sec
RG 26328
DA 124.900 usec
DE 6.50 usec
TE 300.0 K
CNST1 145.0000000
CNST13 10.0000000
D0 0.00000300 sec
D1 2.00000000 sec
D2 0.00344620 sec
D6 0.00300000 sec
D16 0.00320000 sec
IND 0.00001690 sec
----- CHANNEL F1 -----
NUC1 1H
P1 0.00 usec
P2 16.00 usec
PL1 -1.00 dB
SFO1 500.1320003 MHz
----- CHANNEL F2 -----
NUC2 13C
P3 12.00 usec
P4 -3.00 dB
SFO2 125.7723709 MHz
----- GRADIENT CHANNEL -----
GPNAM1 SINC.100
GPNAM2 SINC.100
GPNAM3 SINC.100
GP21 50.00 Hz
GP22 30.00 Hz
GP23 40.10 Hz
P16 1000.00 usec
ND0 2
TD 256
SFO1 125.7724 MHz
FIDRES 115.455109 Hz
SW 235.000 ppm
FQMODE QF
SI 1024
SF 500.1299902 MHz
RGW 8192
SSB 0
LB 0.00 Hz
GB 0
PC 4.00
SI 1024
MC2 QF
SF 125.7674612 MHz
RGW 8192
SSB 0
LB 0.00 Hz
GB 0

NAILA RAZIA/DR.SHAIQ ALI/NR-01/D2O
COSY

AVANCE AV-500
LAB NO: 1098

NAME jan07-14
EXPNO 8
PROCNO 1
Date 20140107
Time 15.50
INSTRUM spect
PROBHD 5 mm BBI 1H/D-
PULPROG cosygpgf
TD 2048
SOLVENT D2O
NS 16
US 8
SWH 4006.410 Hz
FIDRES 1.956255 Hz
AQ 0.2557652 sec
RG 1149.4
DW 124.800 usec
DE 6.50 usec
TE 300.0 K
D0 0.00000300 sec
D1 1.50000000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00024960 sec

===== CHANNEL f1 =====
NUC1 1H
P0 8.00 usec
P1 8.00 usec
PL1 -1.00 dB
SFO1 500.1320005 MHz

===== GRADIENT CHANNEL =====
GPNAM1 SINE.100
SPZ1 10.00 %
P16 1000.00 usec
ND0 1
TD 128
SFO1 500.132 MHz
FIDRES 31.300077 Hz
SW 8.011 ppm
FMODE QF
S1 1024
SF 500.1300020 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 4.00
SI 1024
MC2 QF
SF 500.1300020 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

NAME jan07-14
EXPNO 9
PROCNO 1
Date_ 20140107
Time 16.51
INSTRUM spect
PROBHD 5 mm BBI 1H/D-
PULPROG noesygpph
TD 2048
SOLVENT D2O
NS 16
DS 2
SWH 4006.410 Hz
FIDRES 1.356255 Hz
AQ 0.2557652 sec
RG 228.1
DW 124.800 usec
DE 6.50 usec
TE 300.0 K
DO 0.00011461 sec
D1 2.00000000 sec
D8 0.80000001 sec
D16 0.00020000 sec
IN0 0.00024960 sec

===== CHANNEL f1 =====
NUC1 1H
P1 8.00 usec
P2 16.00 usec
PL1 -1.00 dB
SFO1 500.1320005 MHz

===== GRADIENT CHANNEL =====
GPNAM1 SINE.100
GP21 40.00 %
P16 1000.00 usec
NU0 1
TD 256
SFO1 500.132 MHz
FIDRES 15.650039 Hz
SW 8.011 ppm
PnMODE States-TPPI
SI 1024
SF 500.1300020 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 4.00
SI 1024
MC2 States-TPPI
SF 500.1300020 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0

File: NR-01
Sample: NAILA RAZIA/DR. SHAIQ ALI
Instrument: JEOL JMS 600-H
Inlet: My Inlet

Date Run: 12-19-2013 (Time Run: 14:57:15)

Ionization mode: EI+