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단신 (Notes)

SUPPORTING INFORMATION

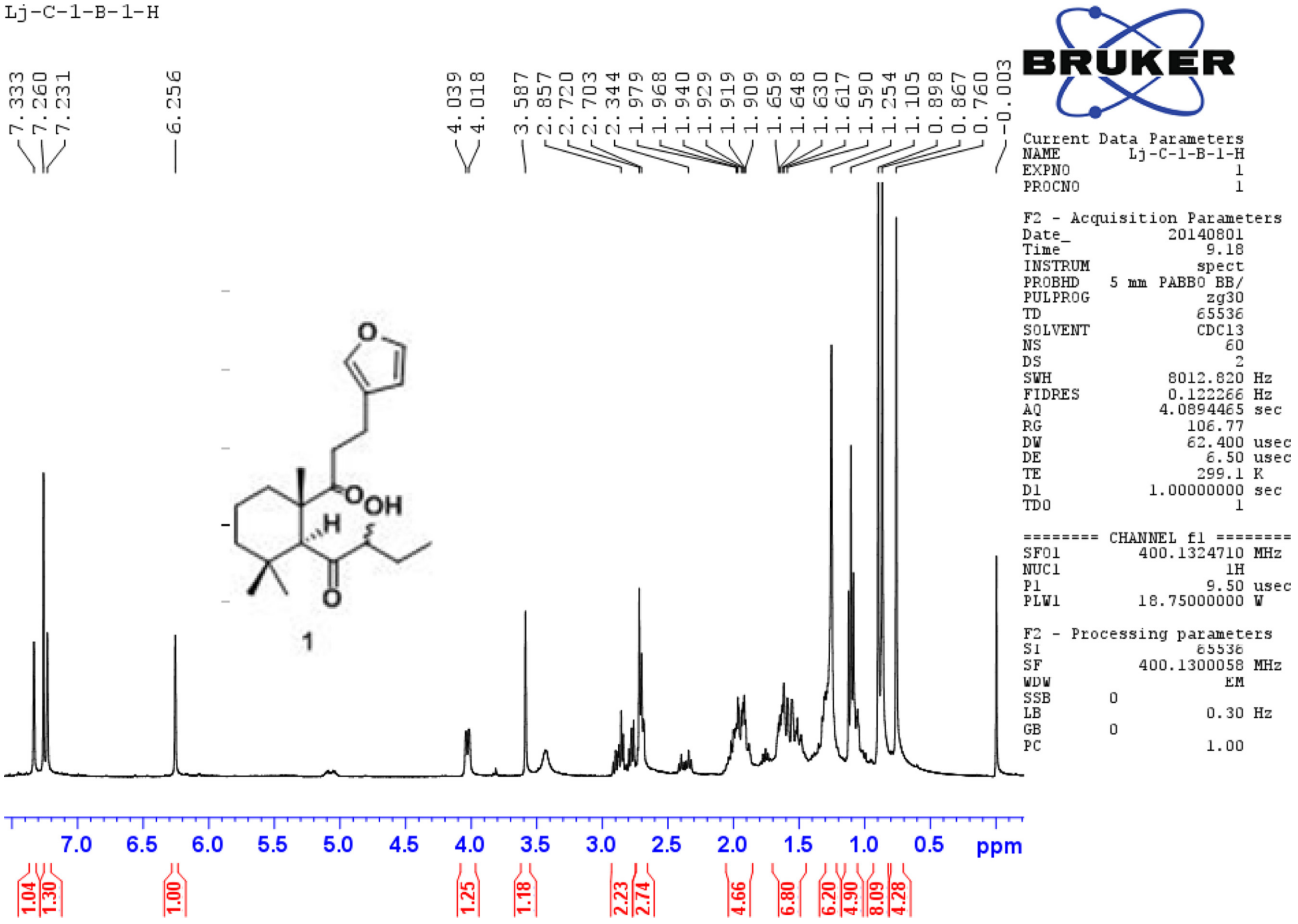
Diterpenoids from *Leonurus japonicus*

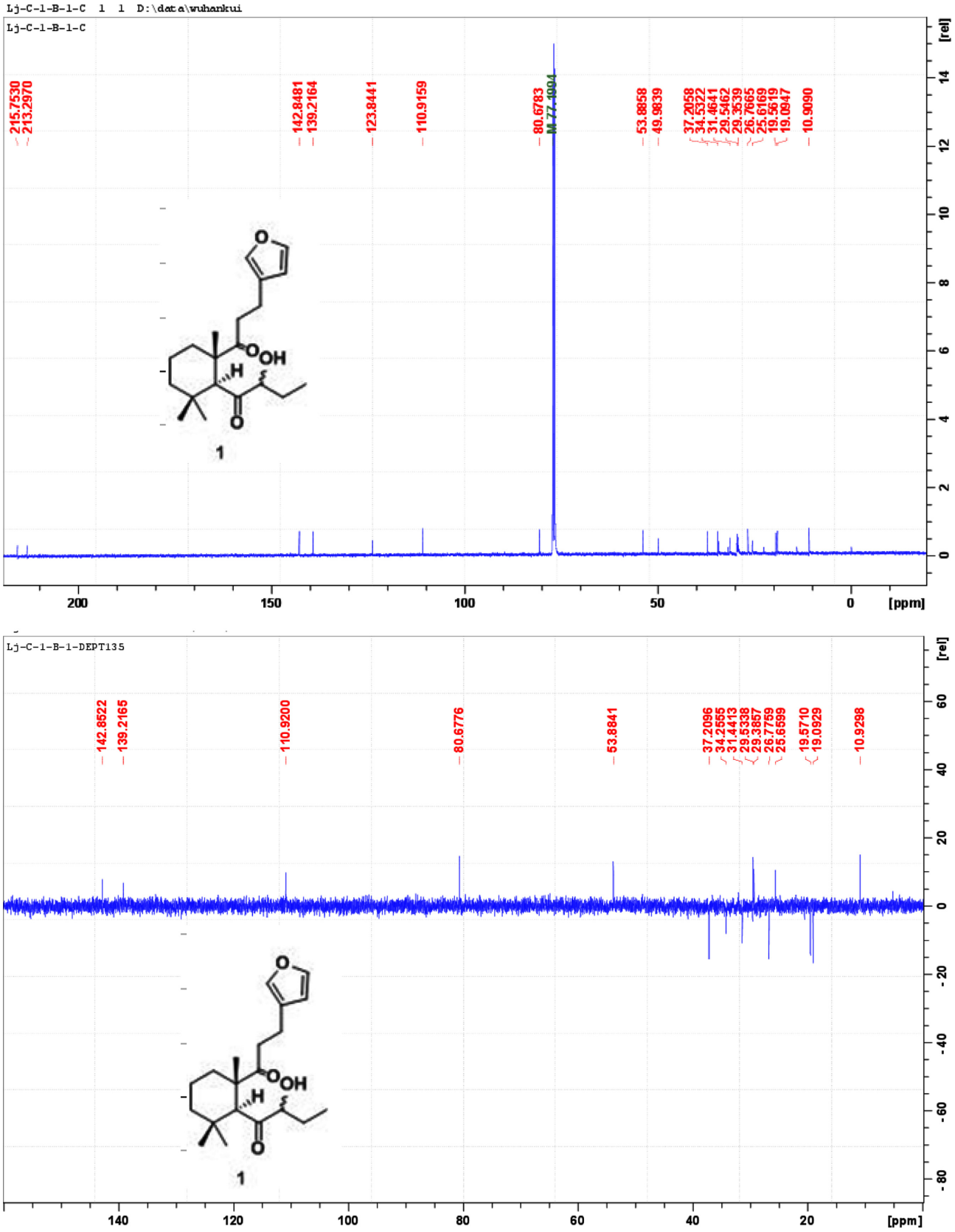
Hankui Wu*, Sensheng Wang, Haijuan Liu, Yan E, Jinjin Wang, Xiangbei Wang, Wenchao Wei, Zhiyong Xu, Shanshan Sun, Yan Li, Ruijin Liu, Gang Li, and Yunfeng Shi*

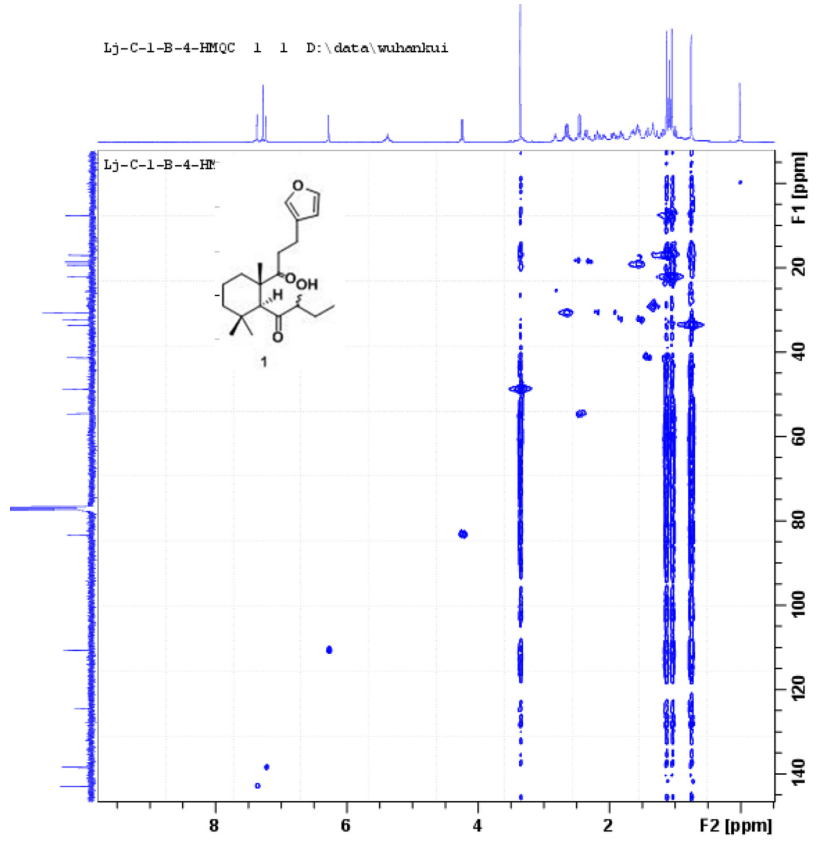
*College of Chemistry and Chemical Engineering, Anyang Normal University, Anyang 455000, Henan Province, People's Republic of China. *E-mail: hkwu@aynu.edu.cn; yfshi@aliyun.com*

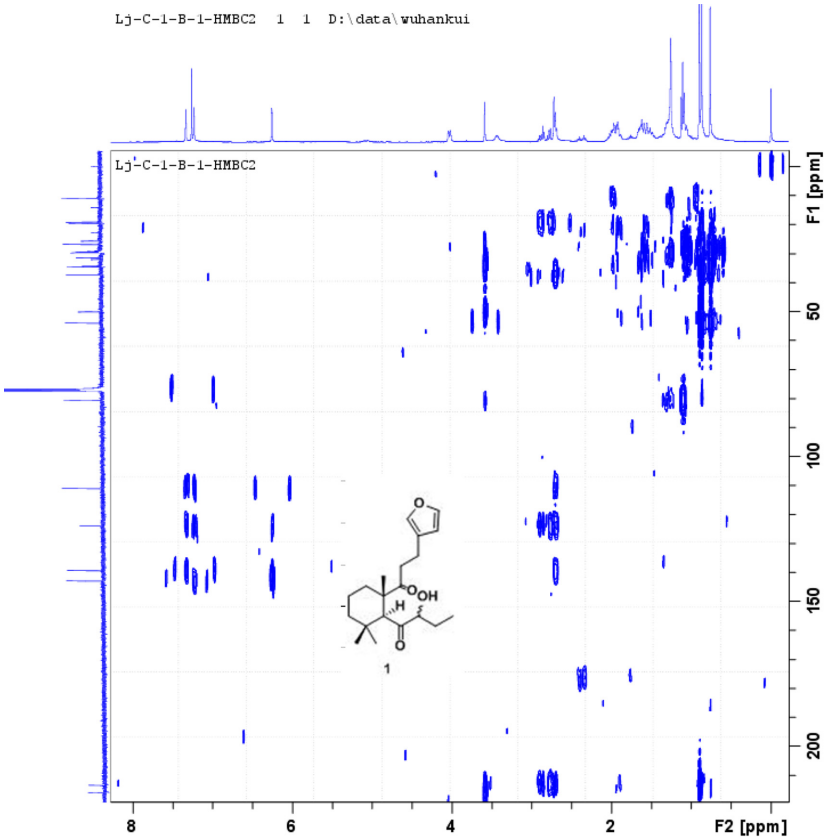
(Received December 11, 2014; Accepted January 21, 2015)

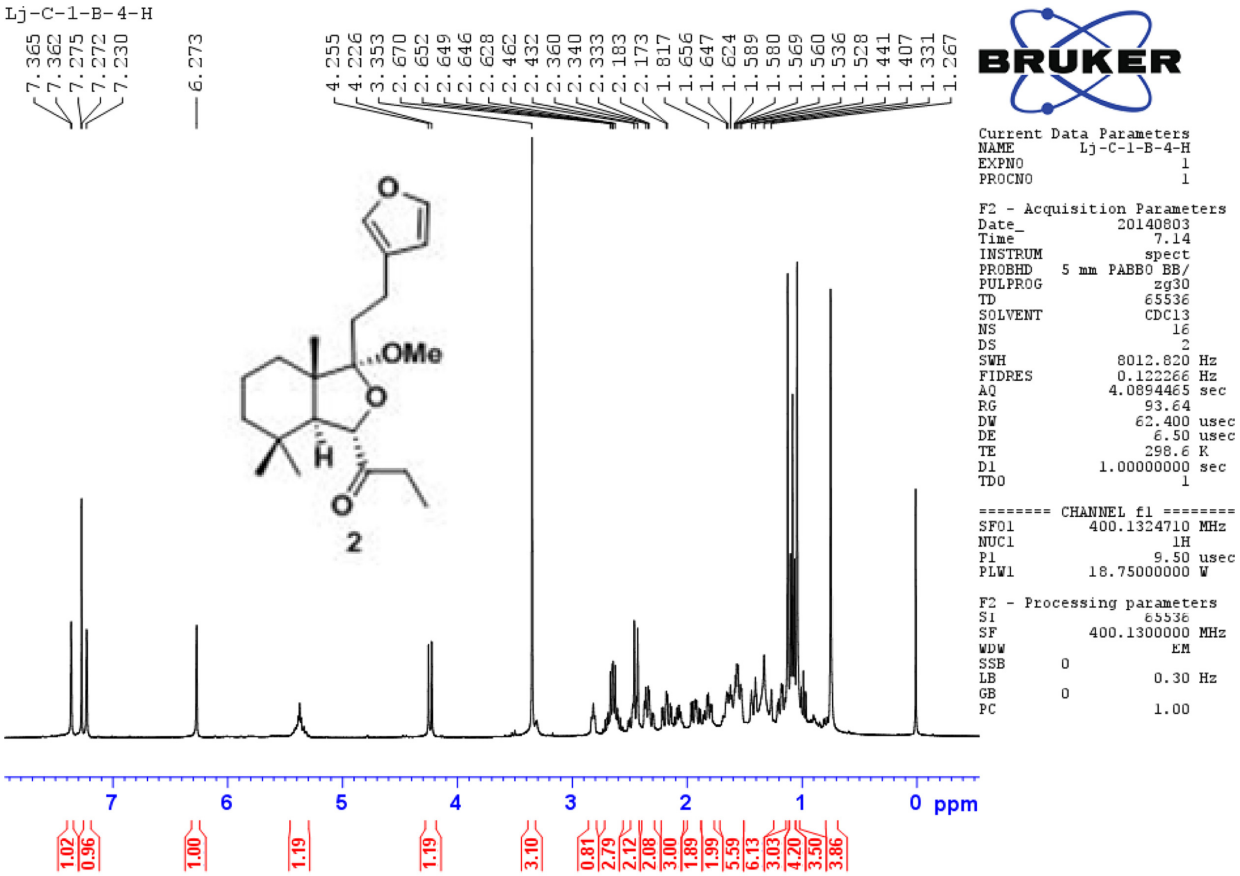
^{1}H and ^{13}C NMR, DEPT, HSQC, and HMBC of **1** and **2**

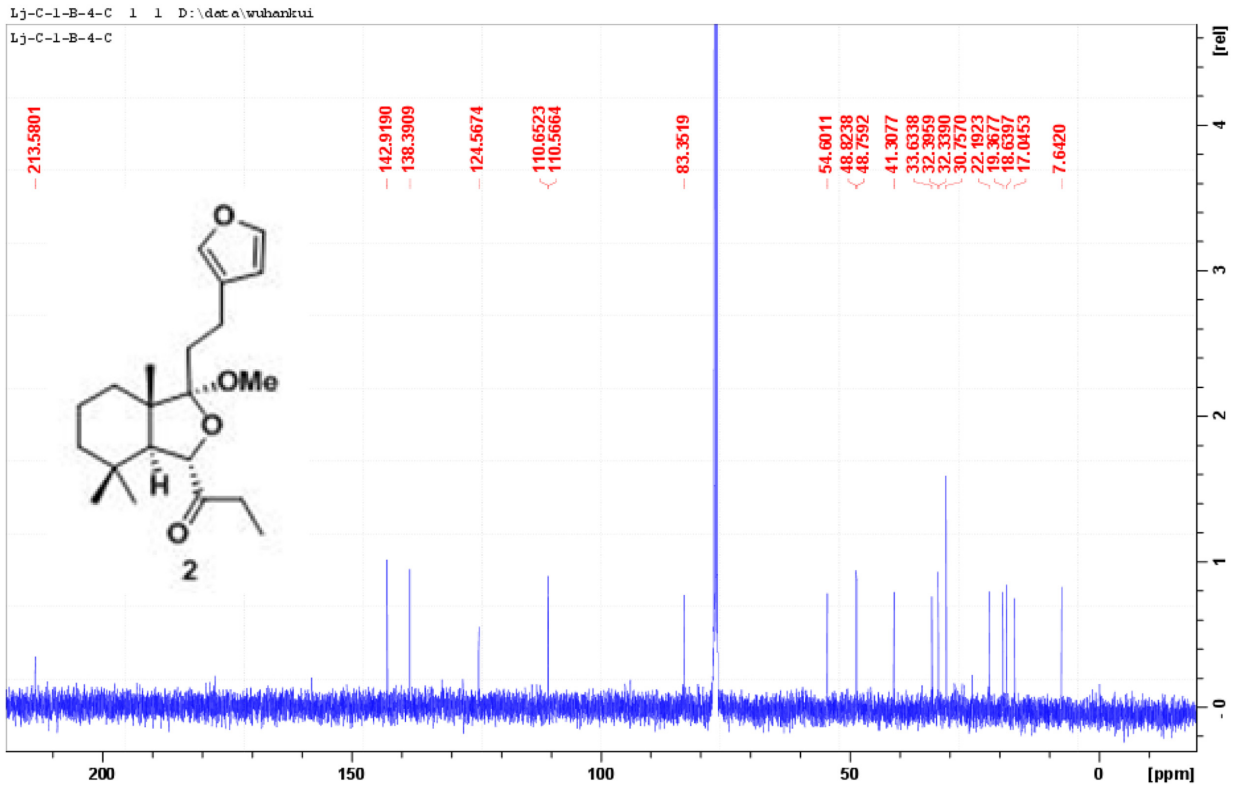


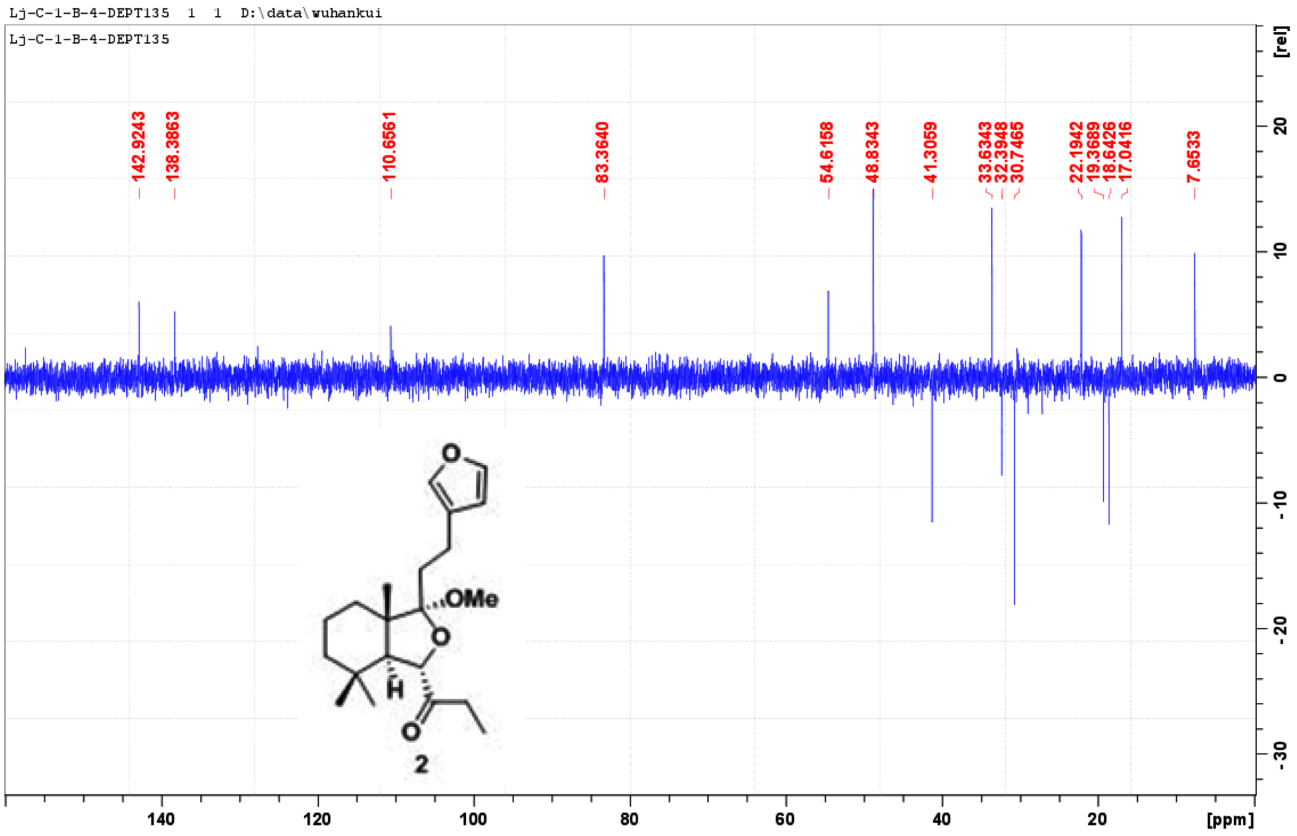

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80.6783
77.4004
53.8858
49.9839
37.2058
34.5322
31.4641
29.5462
29.3539
26.7665
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19.0947
10.9090
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OH
H
O
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100
50
0
[ppm]
[rel]
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31.4413
29.5338
29.3857
26.7759
25.6599
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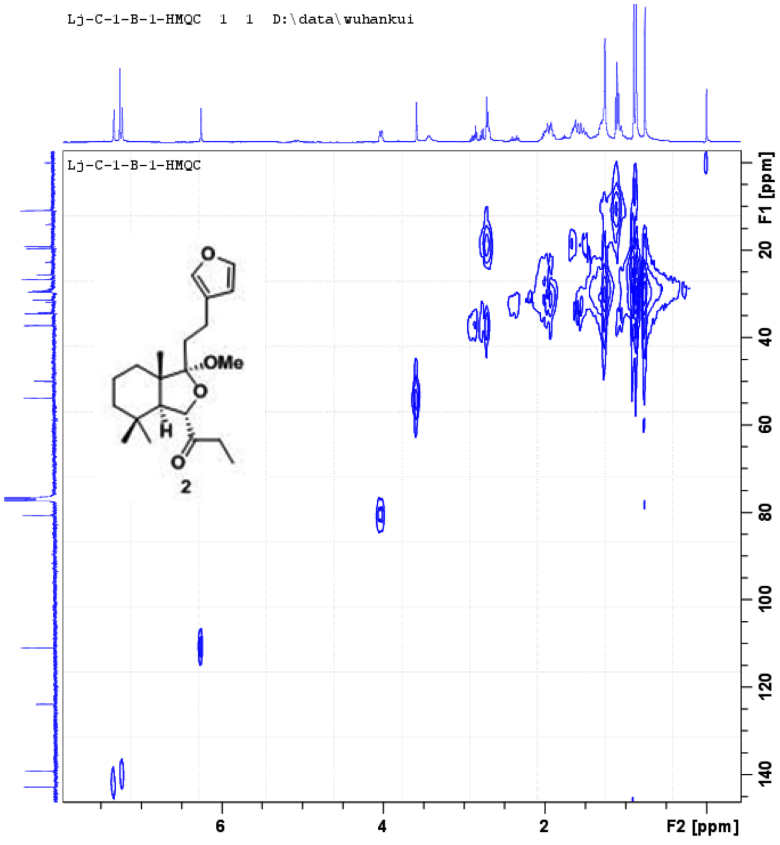

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60
80
100
120
140
8
6
4
2
F2 [ppm]

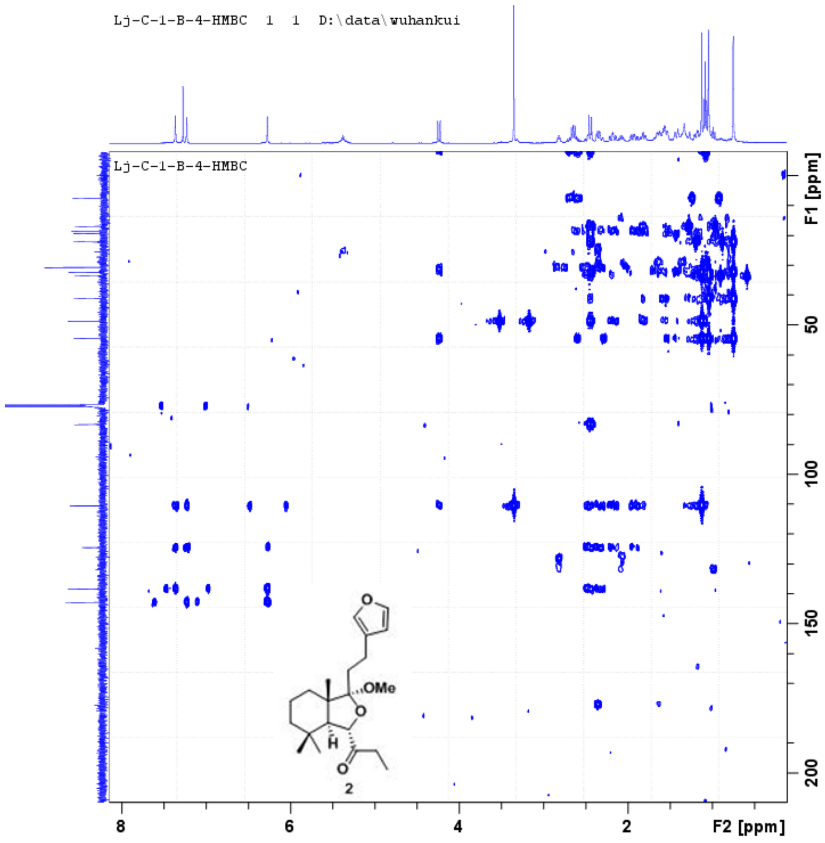

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100
150
200
8
6
4
2
F2 [ppm]


Lj-C-1-B-4-H
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7.272
7.230
6.273
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4.226
3.353
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2.652
2.649
2.646
2.628
2.462
2.432
2.360
2.340
2.333
2.183
2.173
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1.647
1.624
1.589
1.580
1.569
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1.441
1.407
1.331
1.267
OMe
O
H
O
2
BRUKER
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PROCNO 1
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Time 7.14
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PULPROG zg30
TD 65536
SOLVENT CDCl3
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DS 2
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FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 93.64
DW 62.400 usec
DE 6.50 usec
TE 298.6 K
D1 1.00000000 sec
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NUC1 1H
P1 9.50 usec
PLW1 18.75000000 W
F2 - Processing parameters
SI 65536
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LB 0.30 Hz
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PC 1.00
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6
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4
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0.96
1.00
1.19
1.19
3.10
0.81
2.79
2.12
2.08
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1.89
1.99
5.59
6.13
3.03
4.20
3.50
3.86


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33.6338
32.3959
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17.0416
7.6533
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-20
-30
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120
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80
60
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H
O
2


Lj-C-1-B-1-HMQC 1 1 D:\data\wuhankui
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40
60
80
100
120
140
6
4
2
F2 [ppm]
OMe
O
H
O
2


Lj-C-1-B-4-HMBC 1 1 D:\data\wuhankui
Lj-C-1-B-4-HMBC
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100
150
200
8
6
4
2
F2 [ppm]
OMe
H
O
2