

Three new lactone-type diterpenoid alkaloids from *Aconitum rotundifolium* Kar& Kir

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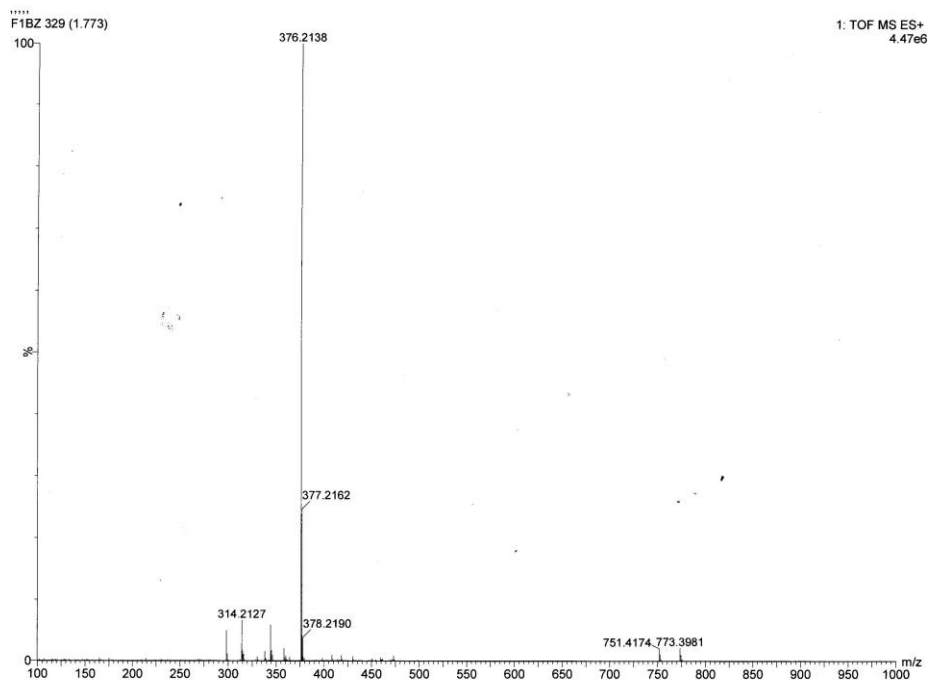
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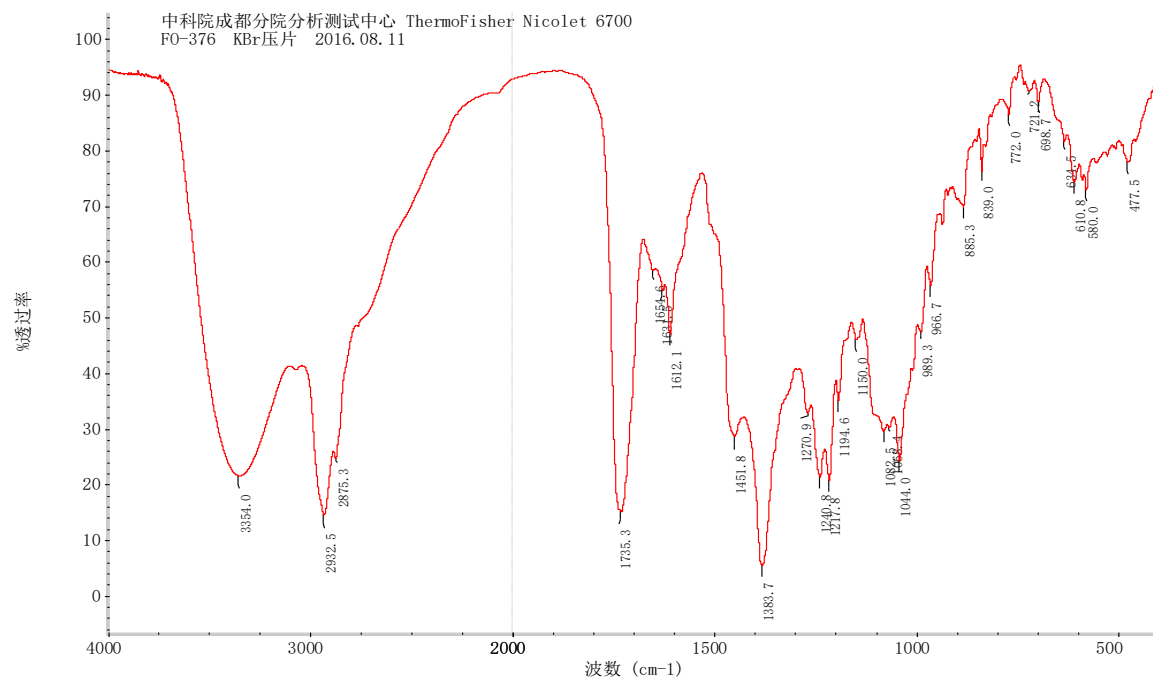
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- 1 HR-ESI-MS spectrum for compound **1**
- 2 IR spectrum for compound **1**
- 3  $^1\text{H}$  NMR spectrum for compound **1**
- 4  $^{13}\text{C}$  NMR spectrum for compound **1**
- 5 DEPT ( $\theta = 135^\circ$ ) spectrum for compound **1**
- 6  $^1\text{H}$ - $^1\text{H}$  COSY spectrum for compound **1**
- 7 HMQC spectrum for compound **1**
- 8 HMBC spectrum for compound **1**
- 9 Noesy spectrum for compound **1**
- 10 HR-ESI-MS spectrum for compound **2**
- 11 IR spectrum for compound **2**
- 12  $^1\text{H}$  NMR spectrum for compound **2**
- 13  $^{13}\text{C}$  NMR spectrum for compound **2**
- 14 DEPT ( $\theta = 135^\circ$ ) spectrum for compound **2**
- 15  $^1\text{H}$ - $^1\text{H}$  COSY spectrum for compound **2**
- 16 HMQC spectrum for compound **2**
- 17 HMBC spectrum for compound **2**
- 18 Noesy spectrum for compound **2**
- 19 HR-ESI-MS spectrum for compound **3**
- 20 IR spectrum for compound **3**
- 21  $^1\text{H}$  NMR spectrum for compound **3**
- 22  $^{13}\text{C}$  NMR spectrum for compound **3**
- 23 DEPT ( $\theta = 135^\circ$ ) spectrum for compound **3**
- 24  $^1\text{H}$ - $^1\text{H}$  COSY spectrum for compound **3**
- 25 HMQC spectrum for compound **3**
- 26 HMBC spectrum for compound **3**
- 27 Noesy spectrum for compound **3**

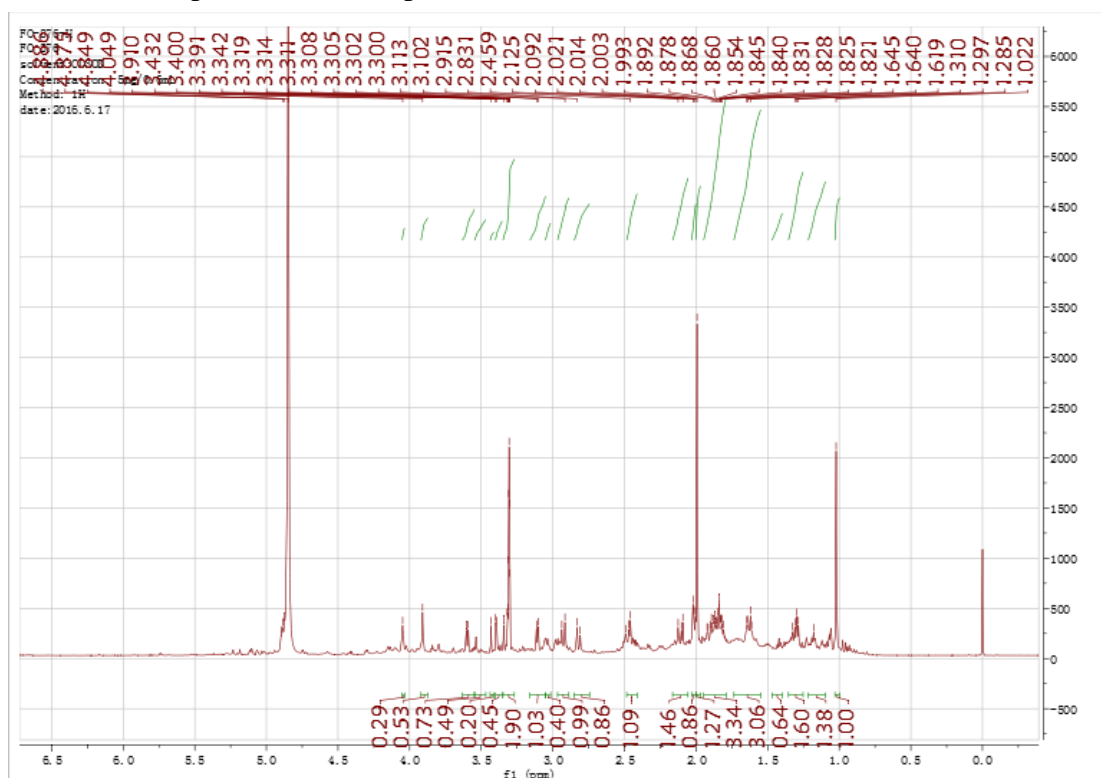
# 1 HR-ESI-MS spectrum for compound 1



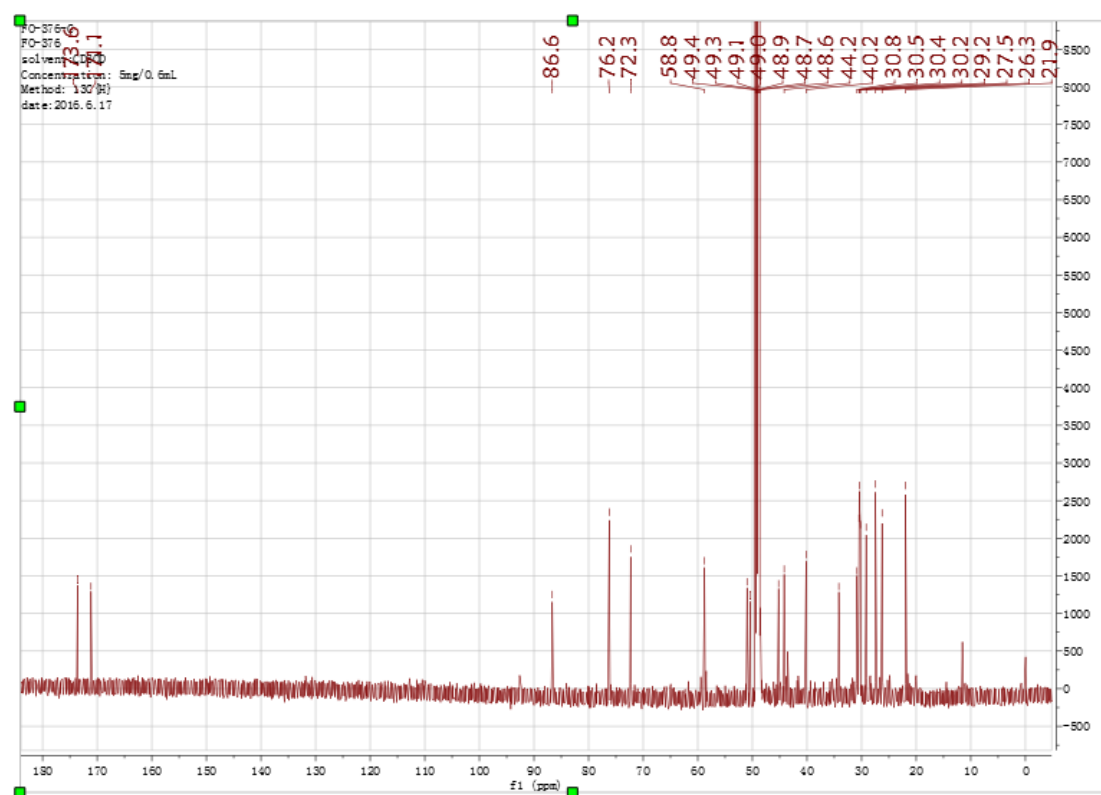
# 2 IR spectrum for compound 1



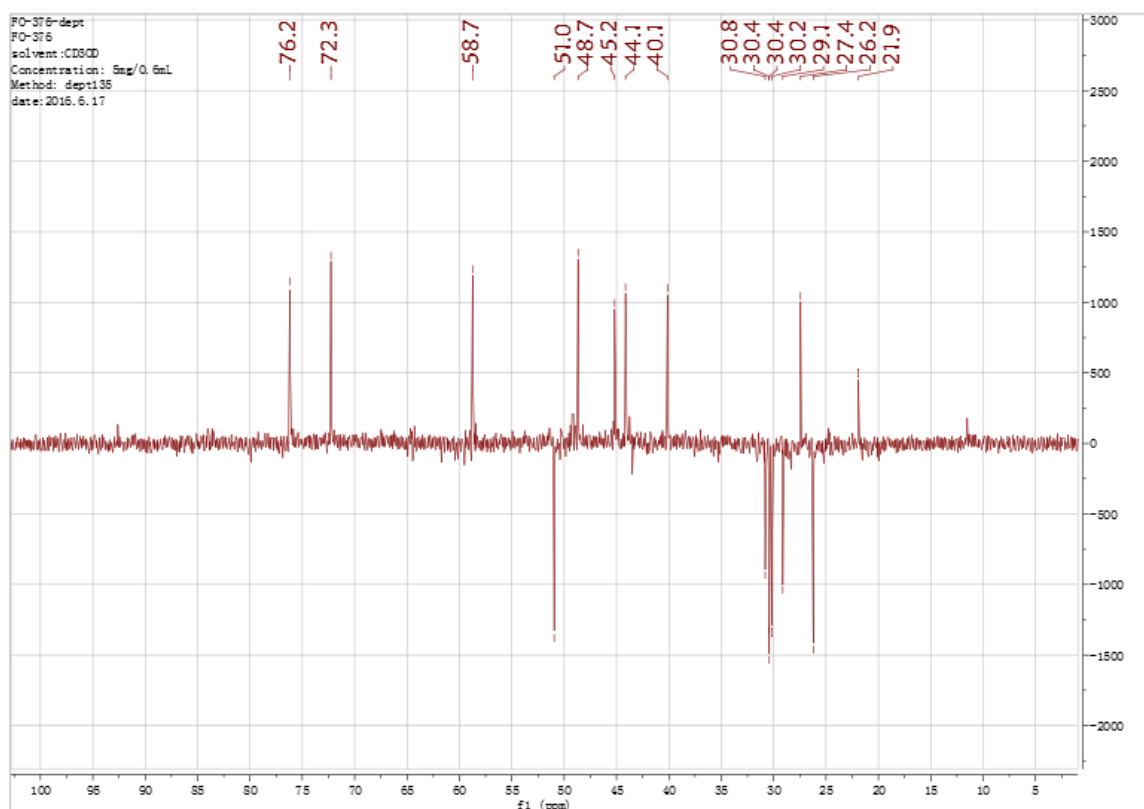
### 3 $^1\text{H}$ NMR spectrum for compound 1



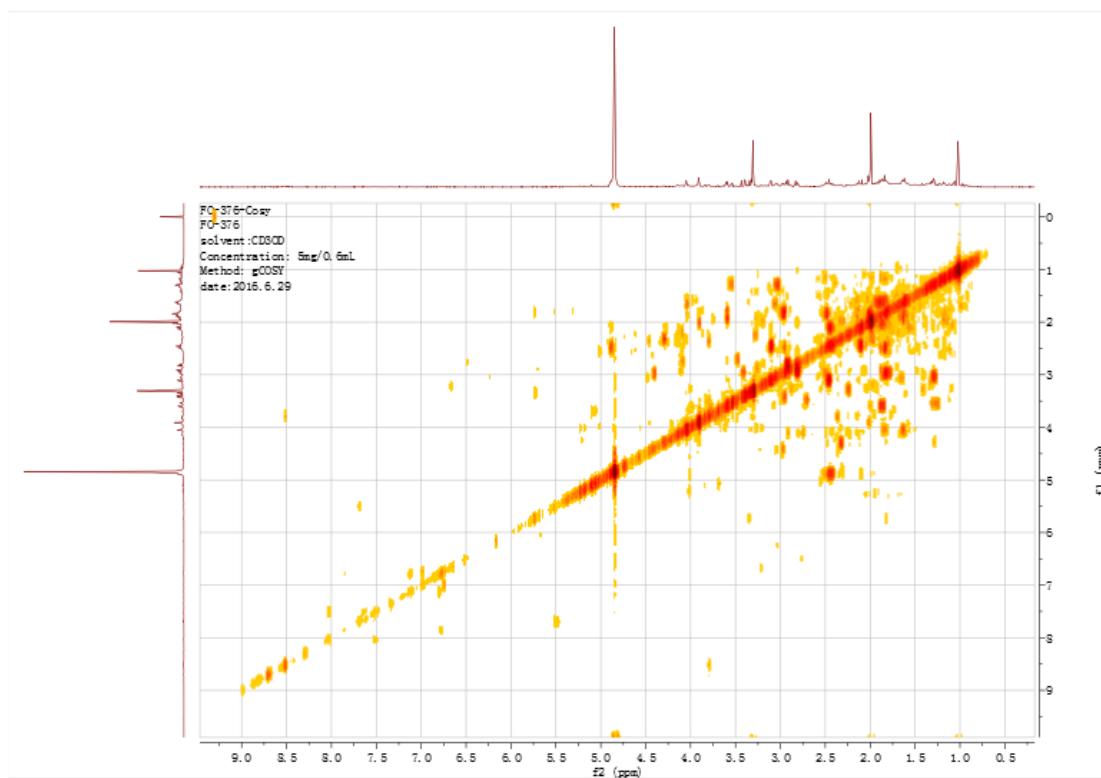
### 4 $^{13}\text{C}$ NMR spectrum for compound 1



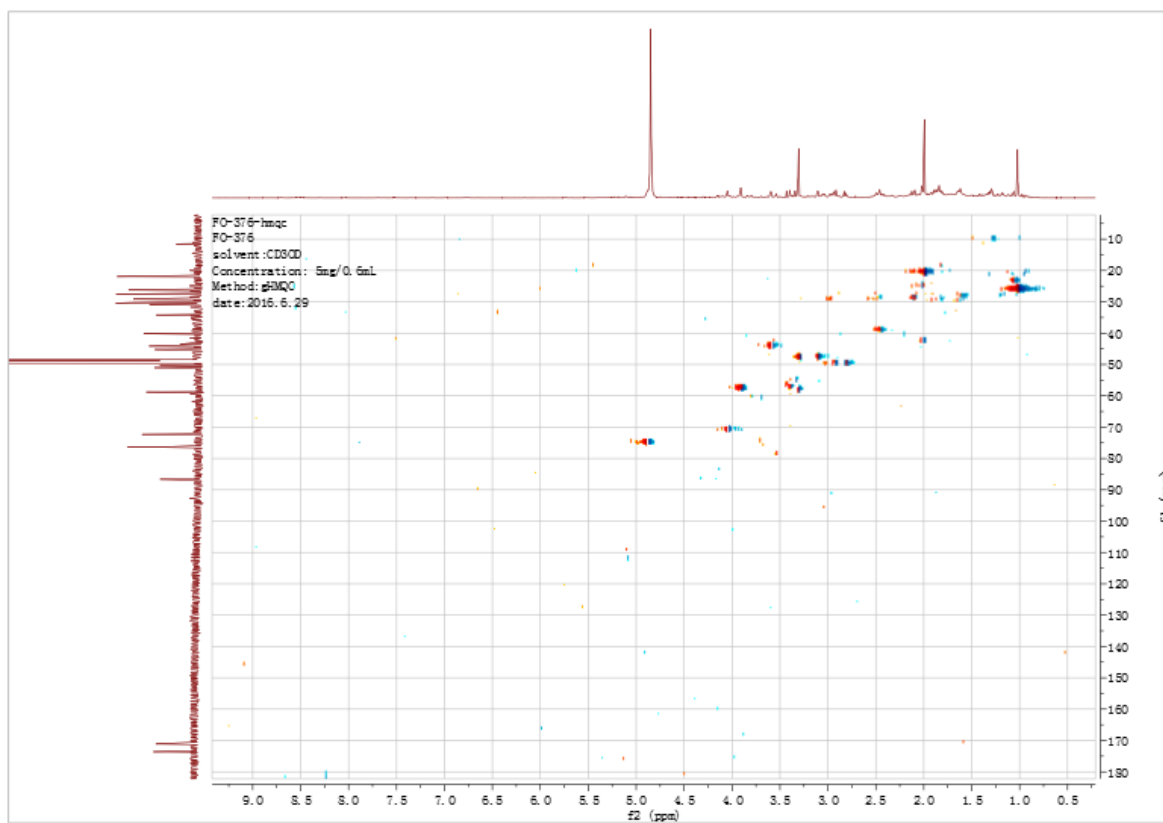
## 5 DEPT ( $\theta = 135^\circ$ ) spectrum for compound 1



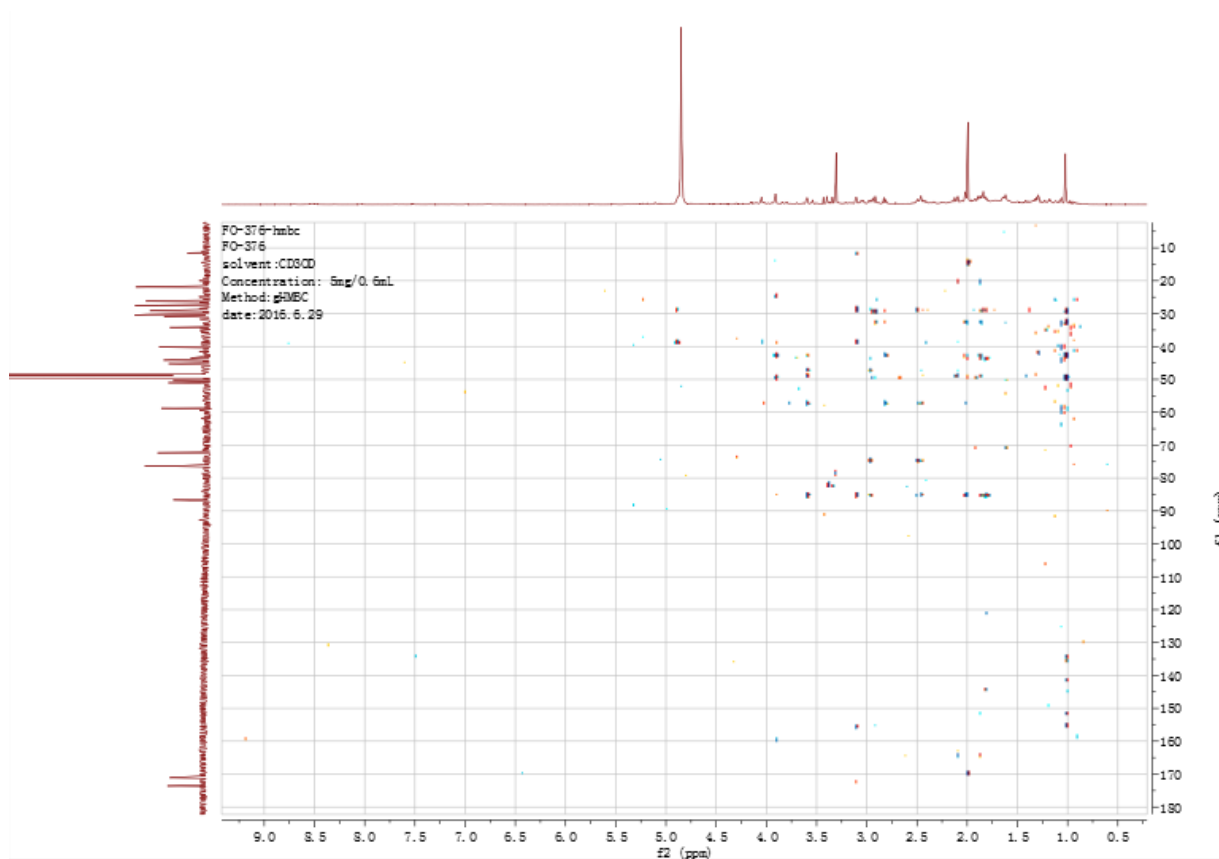
## 6 $^1\text{H}$ - $^1\text{H}$ COSY spectrum for compound 1



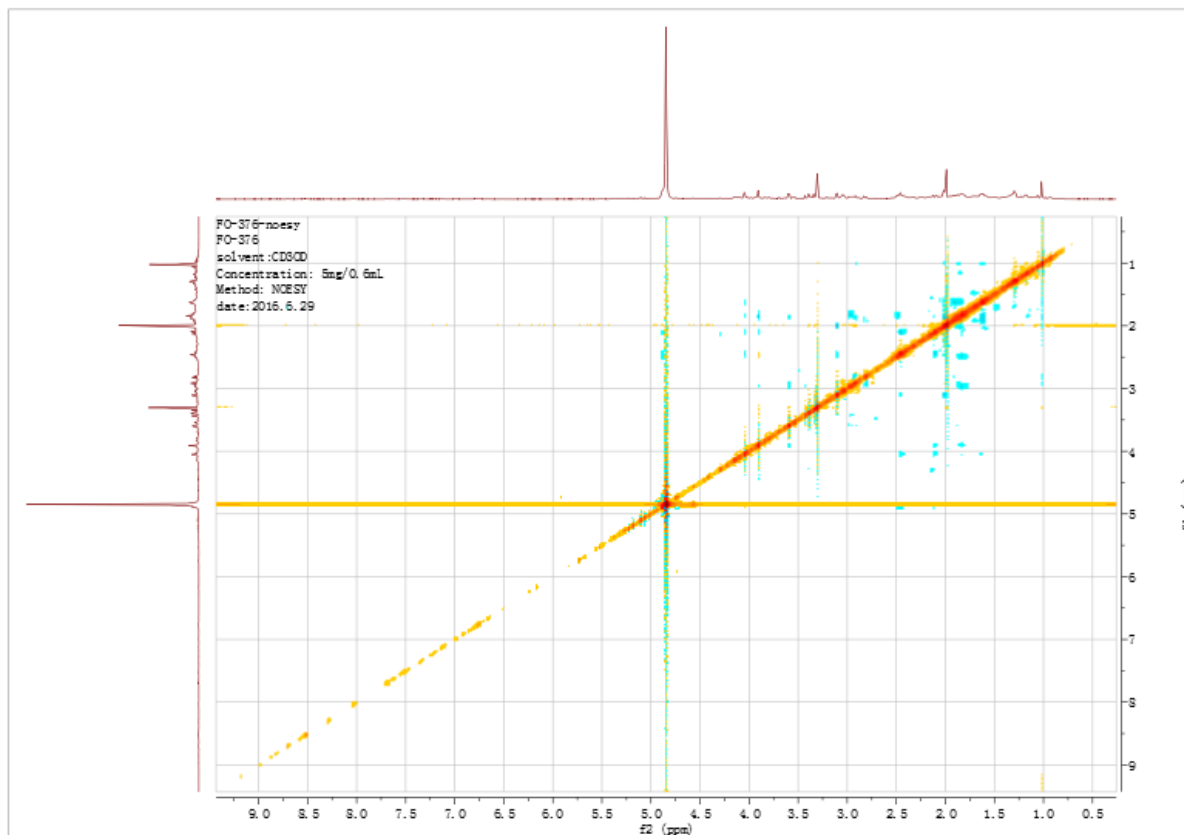
## 7 HMQC spectrum for compound 1



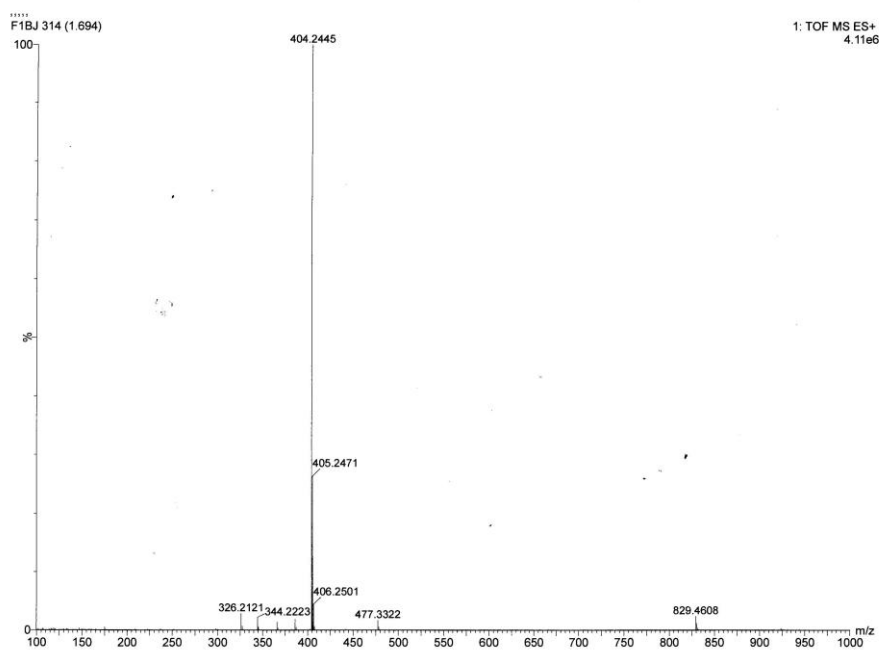
## 8 HMBC spectrum for compound 1



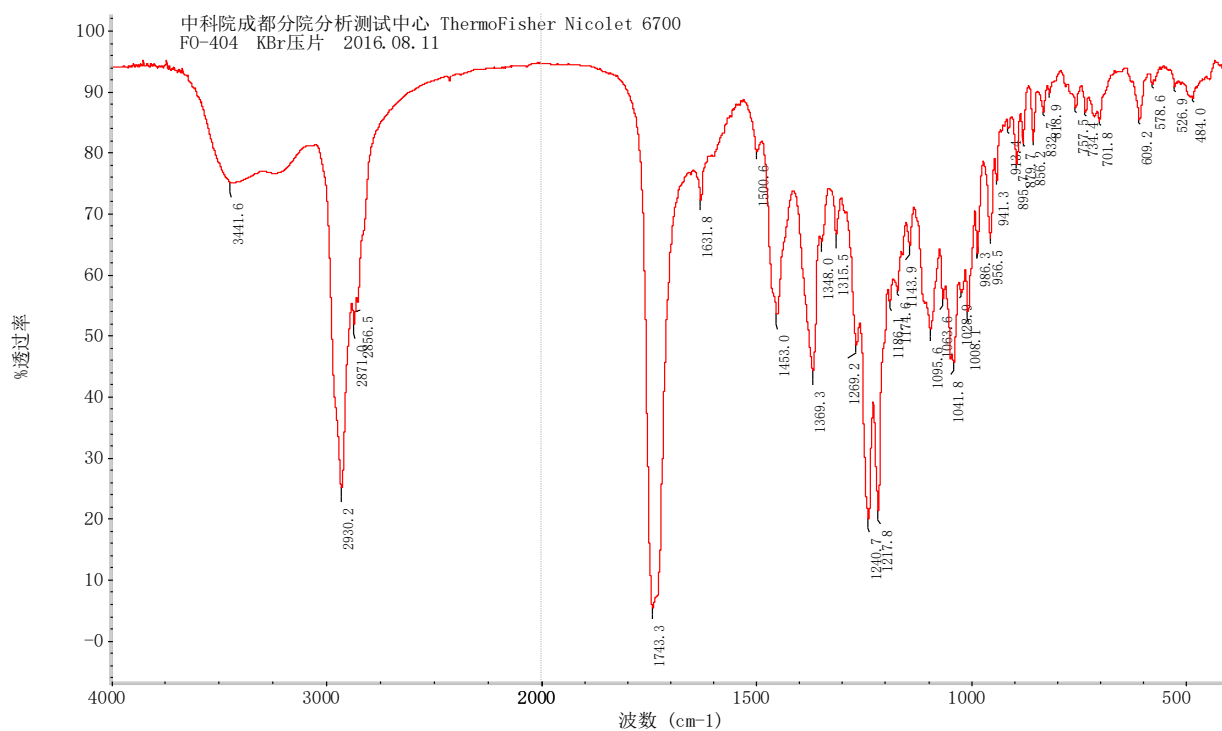
## 9 Noesy spectrum for compound 1



## 10 HR-ESI-MS spectrum for compound 2



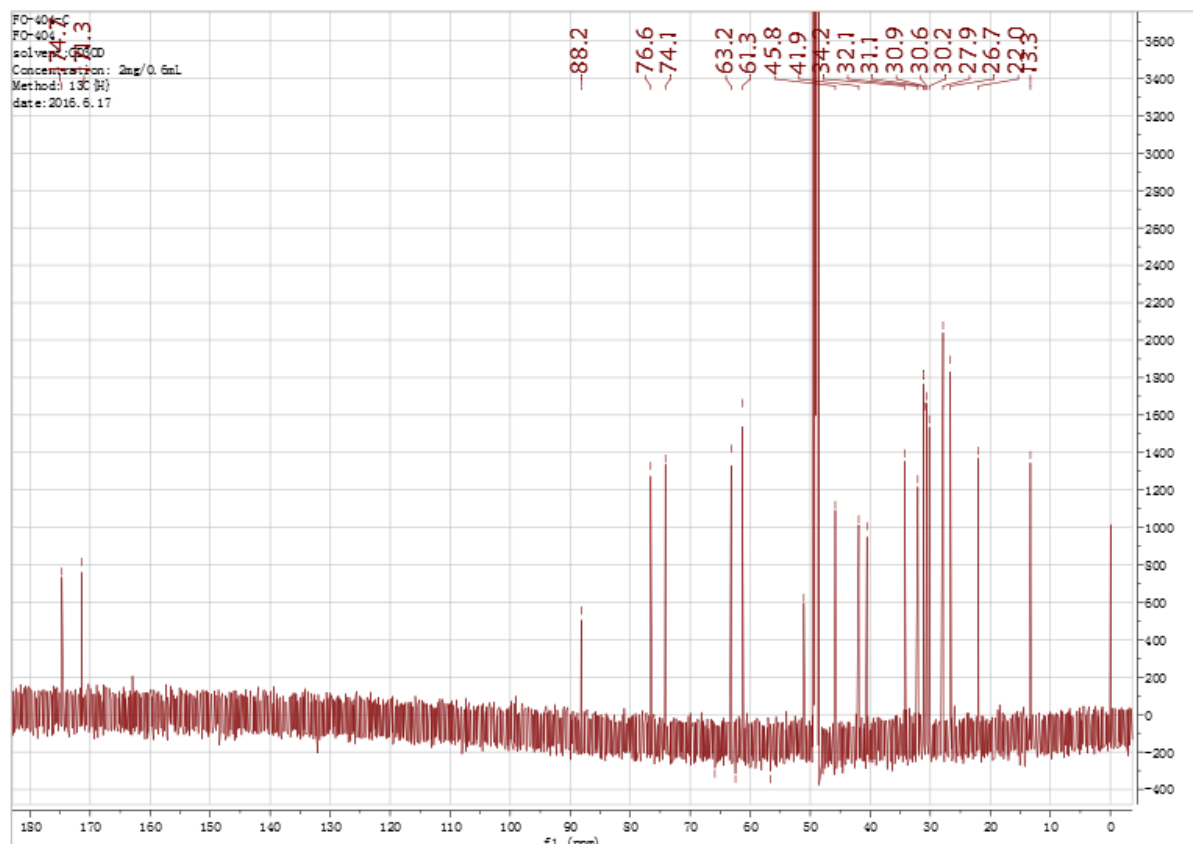
## 11 IR spectrum for compound 2



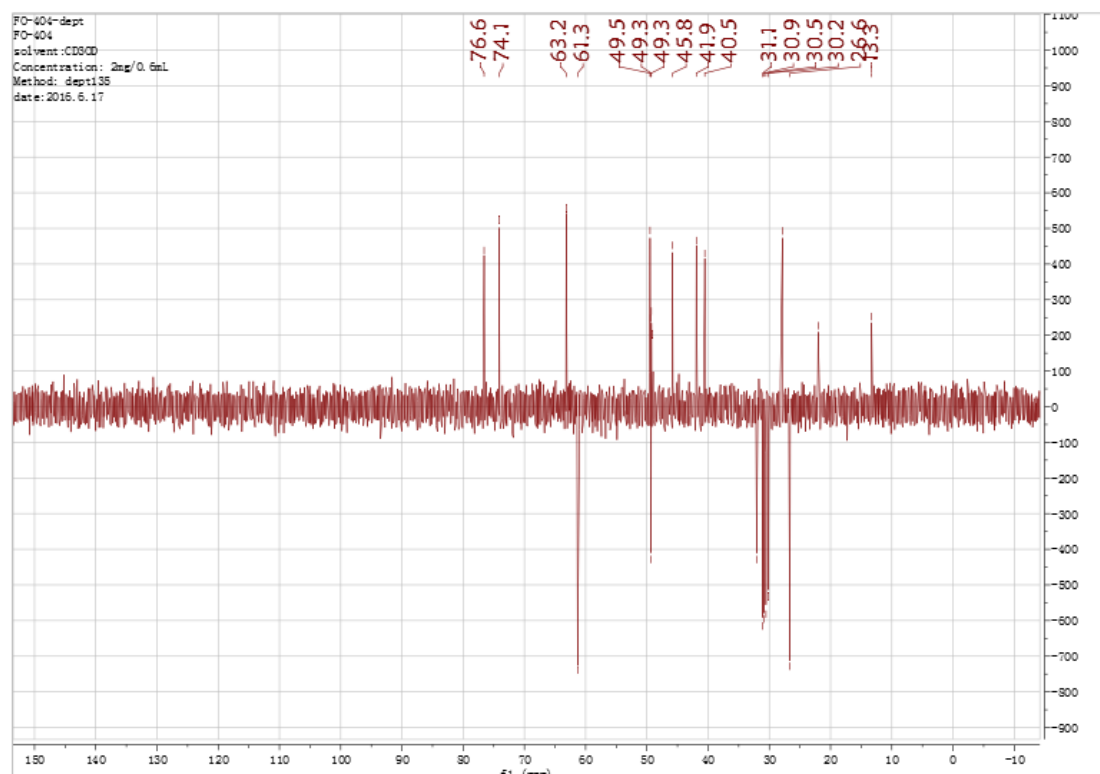
## 12 <sup>1</sup>H NMR spectrum for compound 2



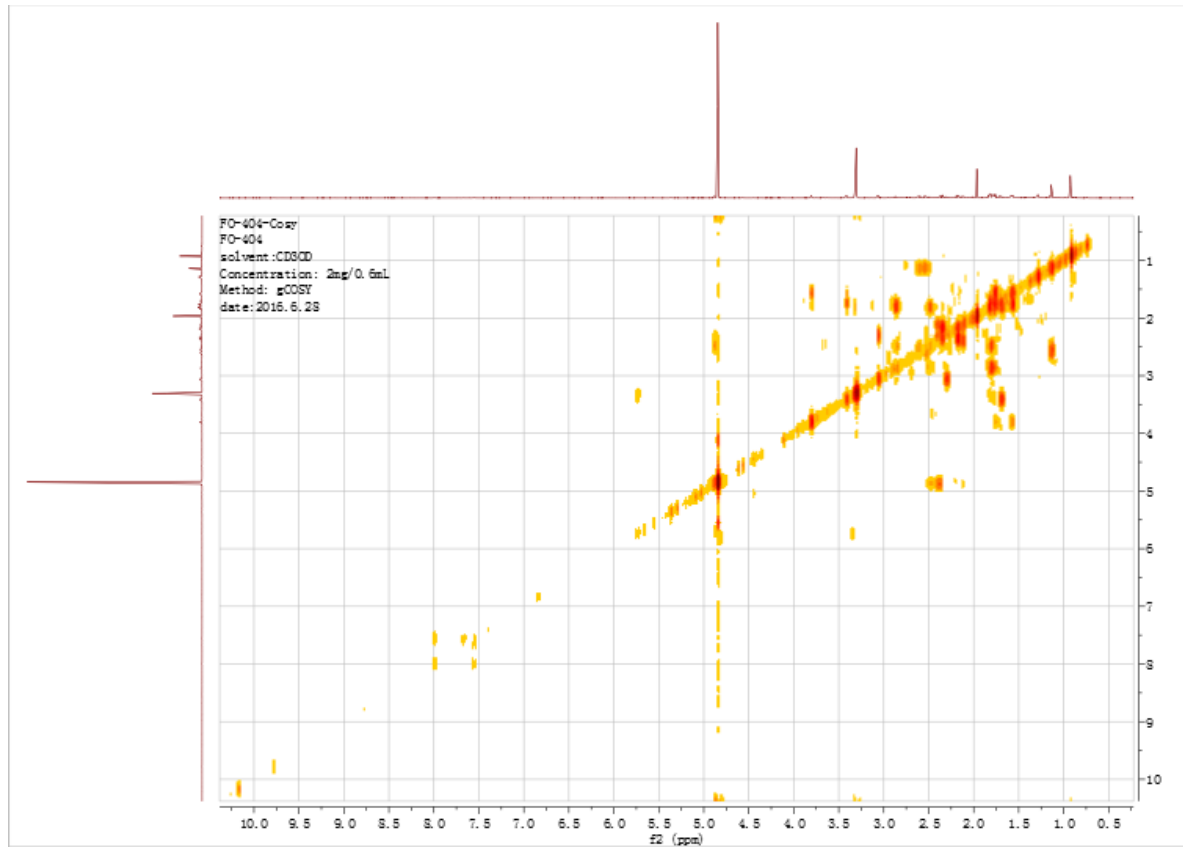
### 13 <sup>13</sup>C NMR spectrum for compound 2



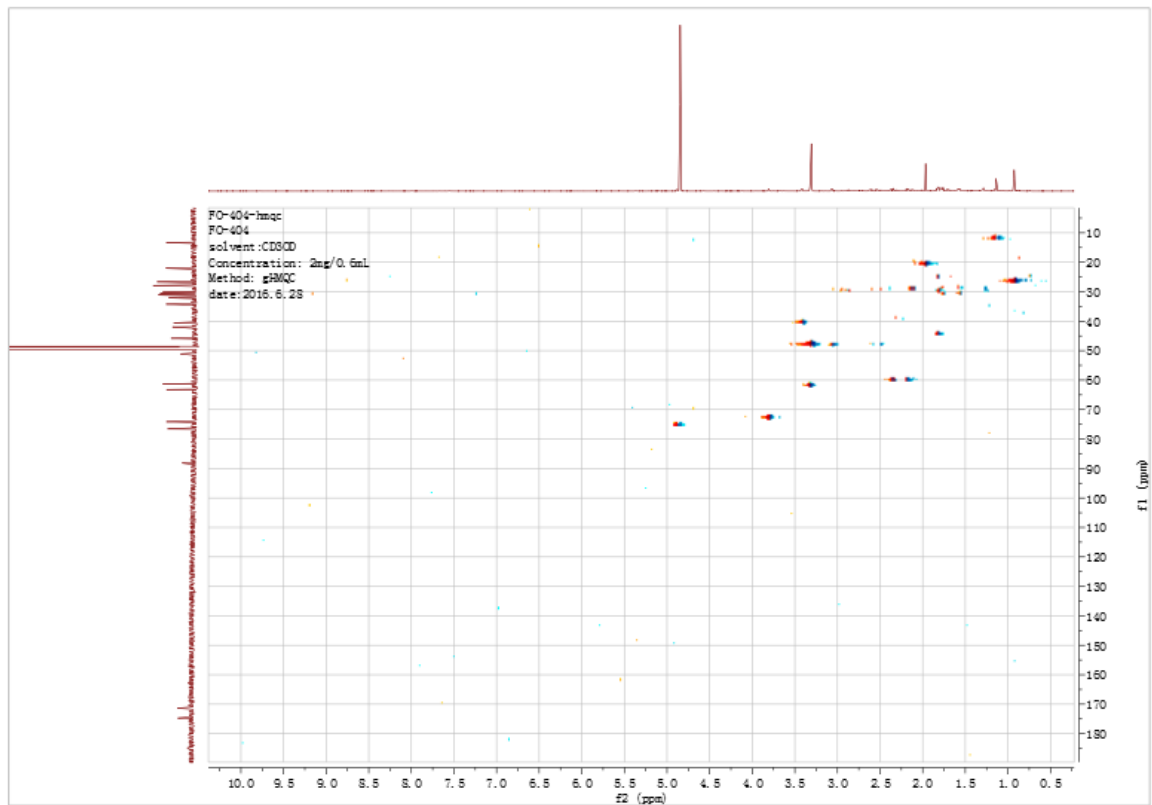
### 14 DEPT ( $\theta = 135^\circ$ ) spectrum for compound 2



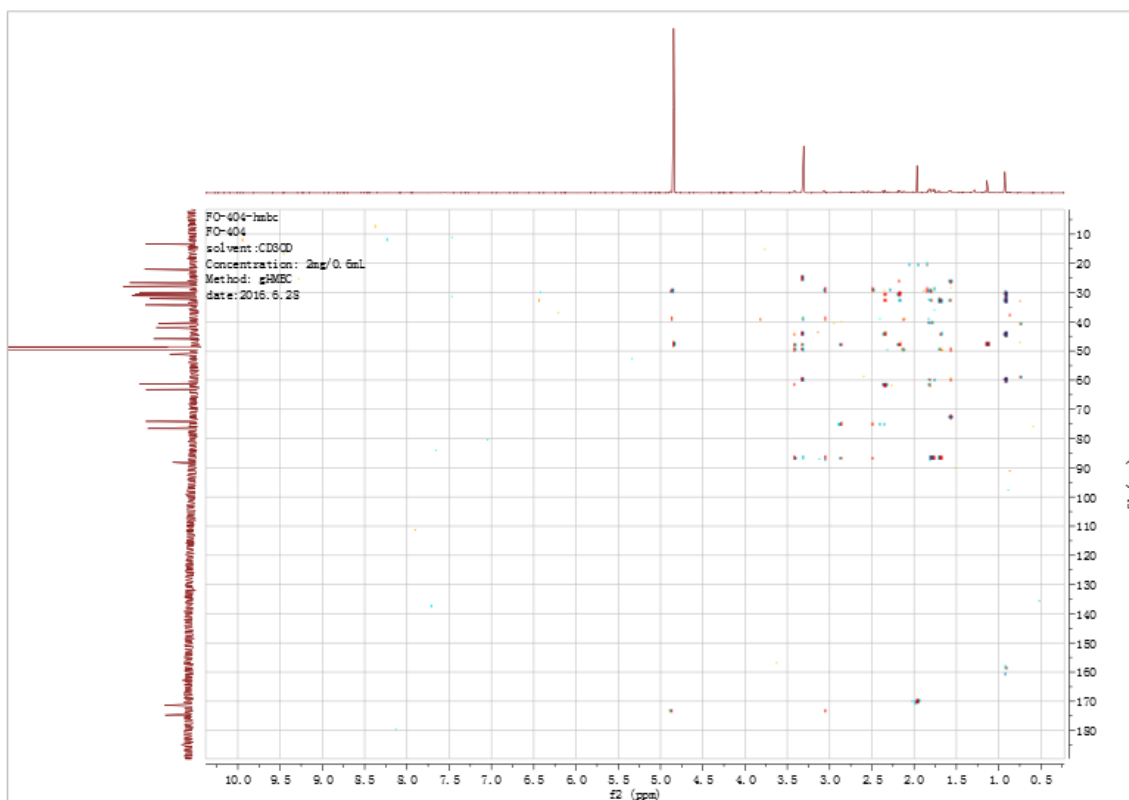
15  $^1\text{H}$ - $^1\text{H}$  COSY spectrum for compound 2



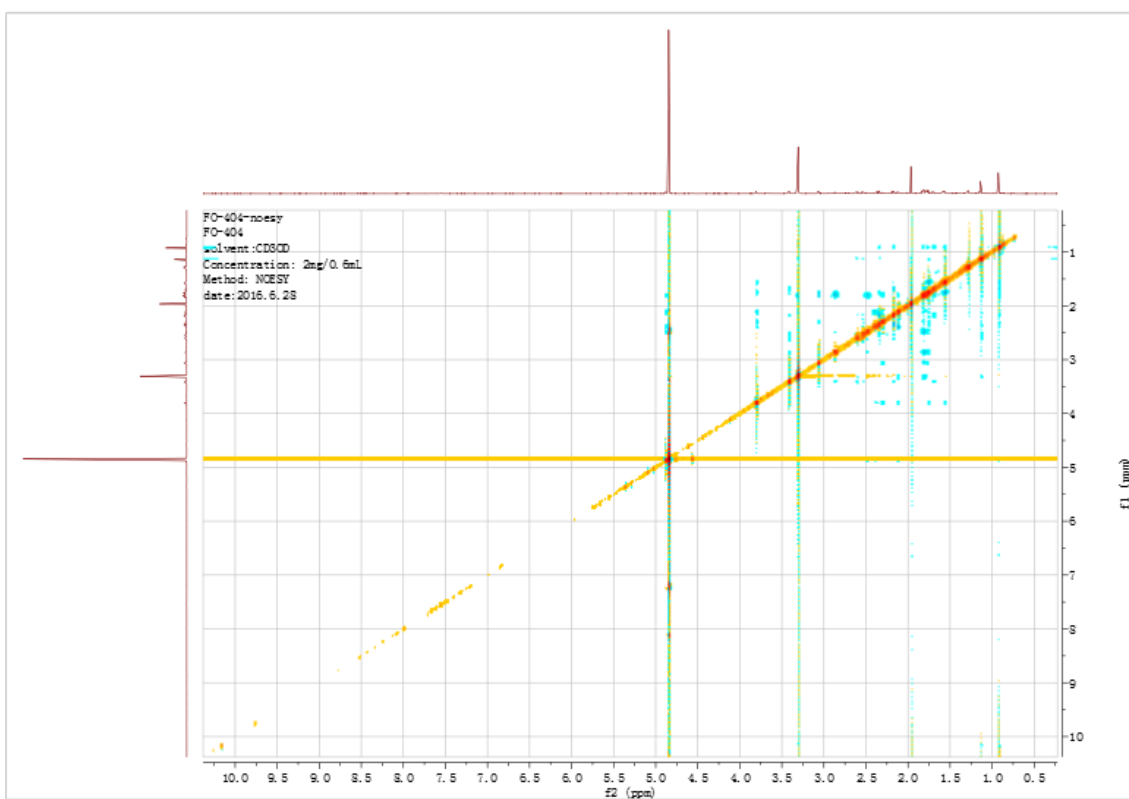
16 HMQC spectrum for compound 2



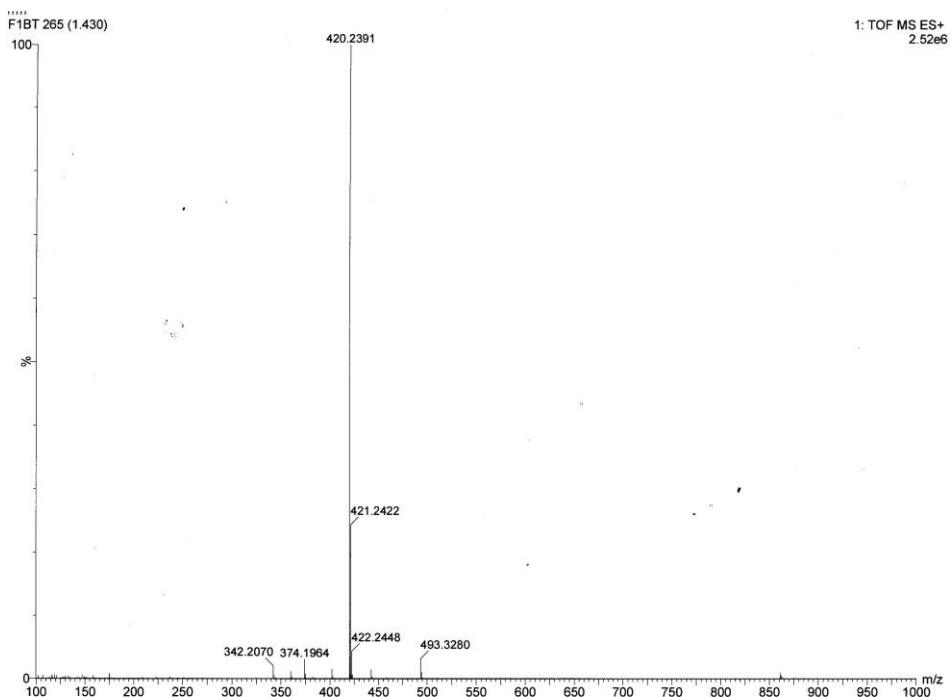
## 17 HMBC spectrum for compound 2



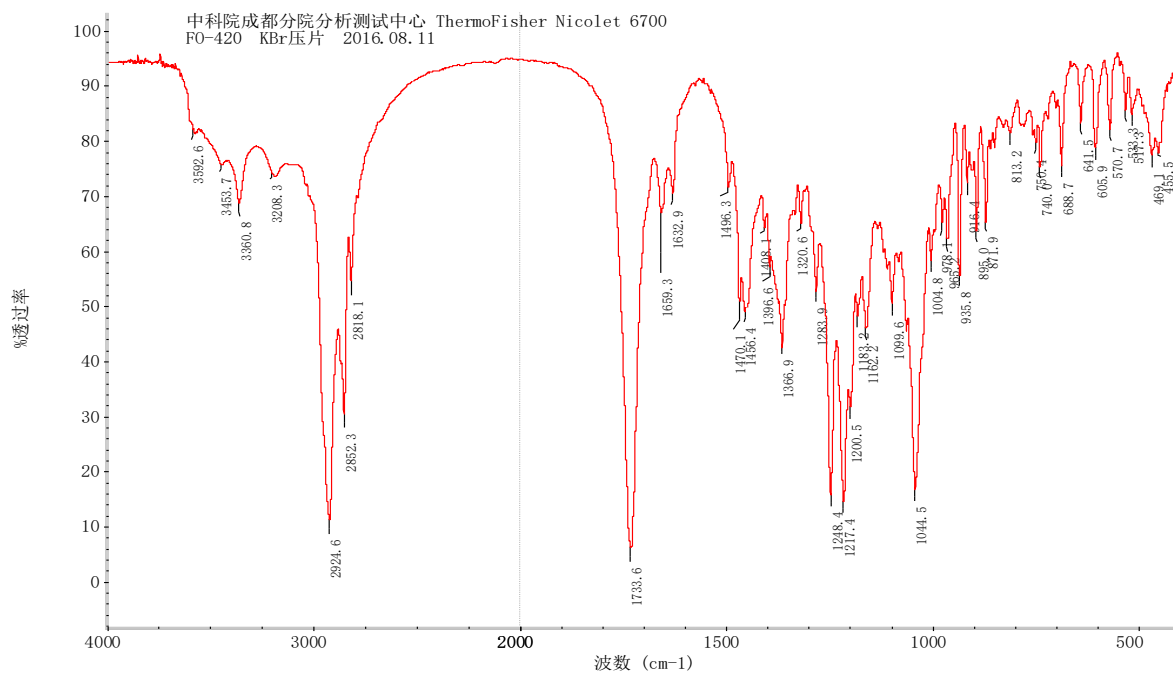
## 18 Noesy spectrum for compound 2



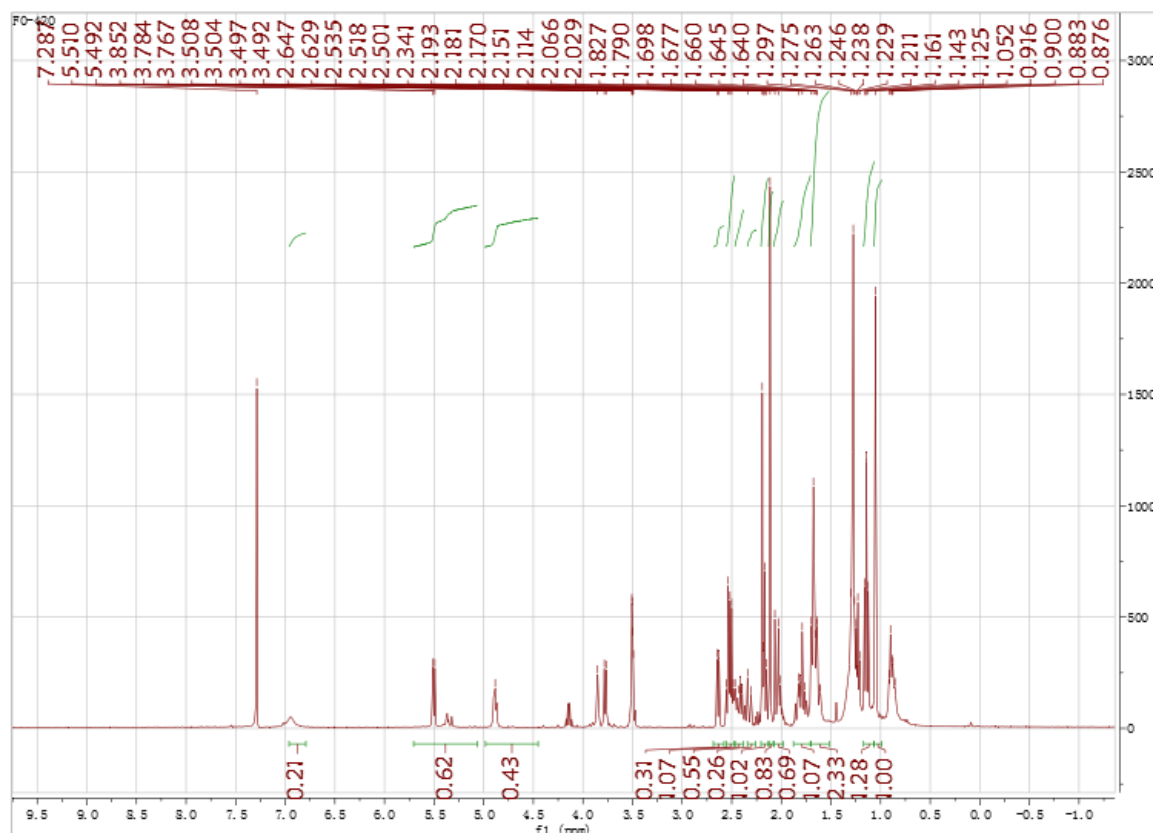
## 19 HR-ESI-MS spectrum for compound 3



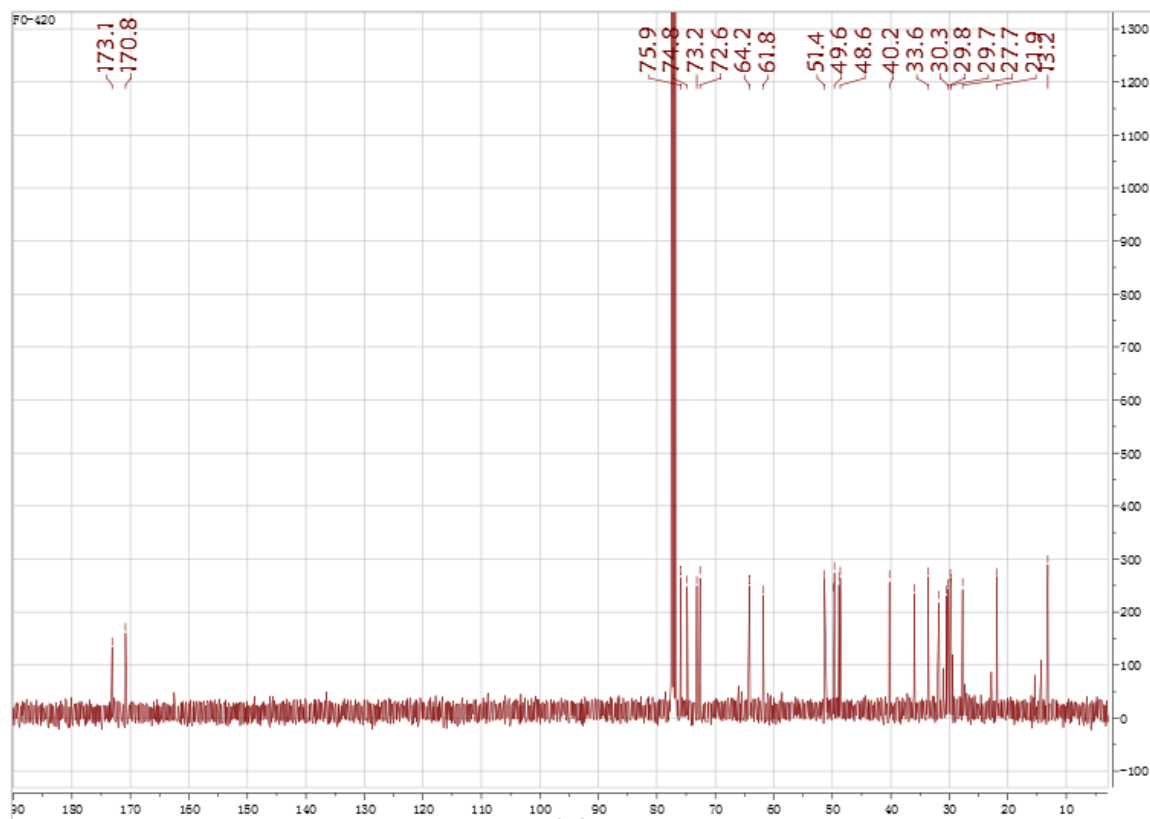
## 20 IR spectrum for compound 3



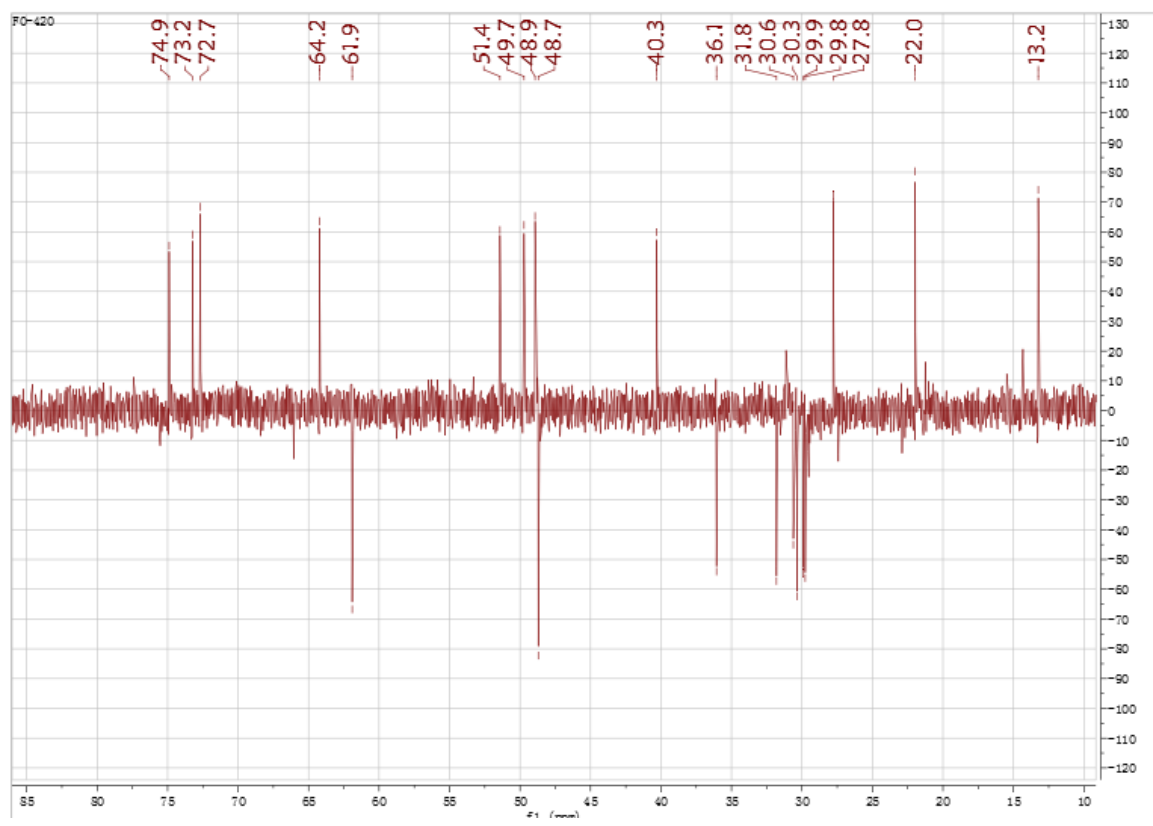
21  $^1\text{H}$  NMR spectrum for compound 3



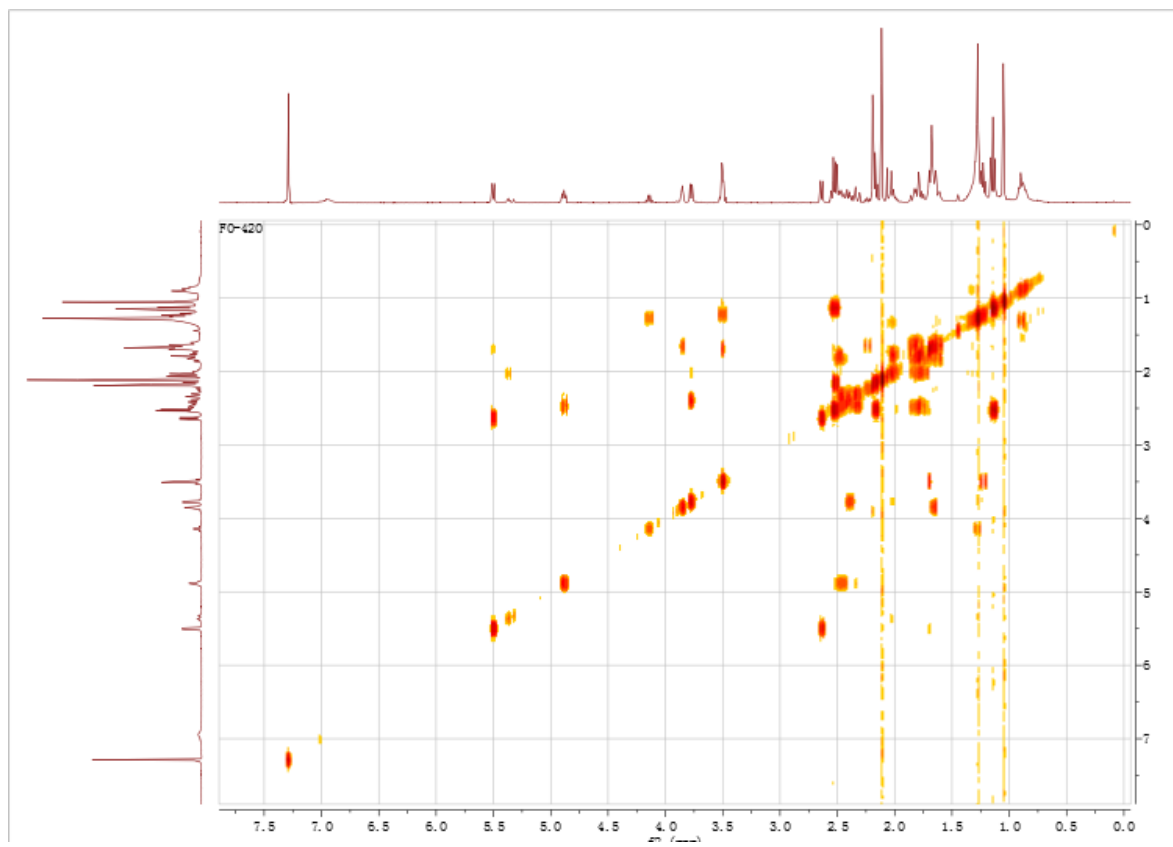
22  $^{13}\text{C}$  NMR spectrum for compound 3



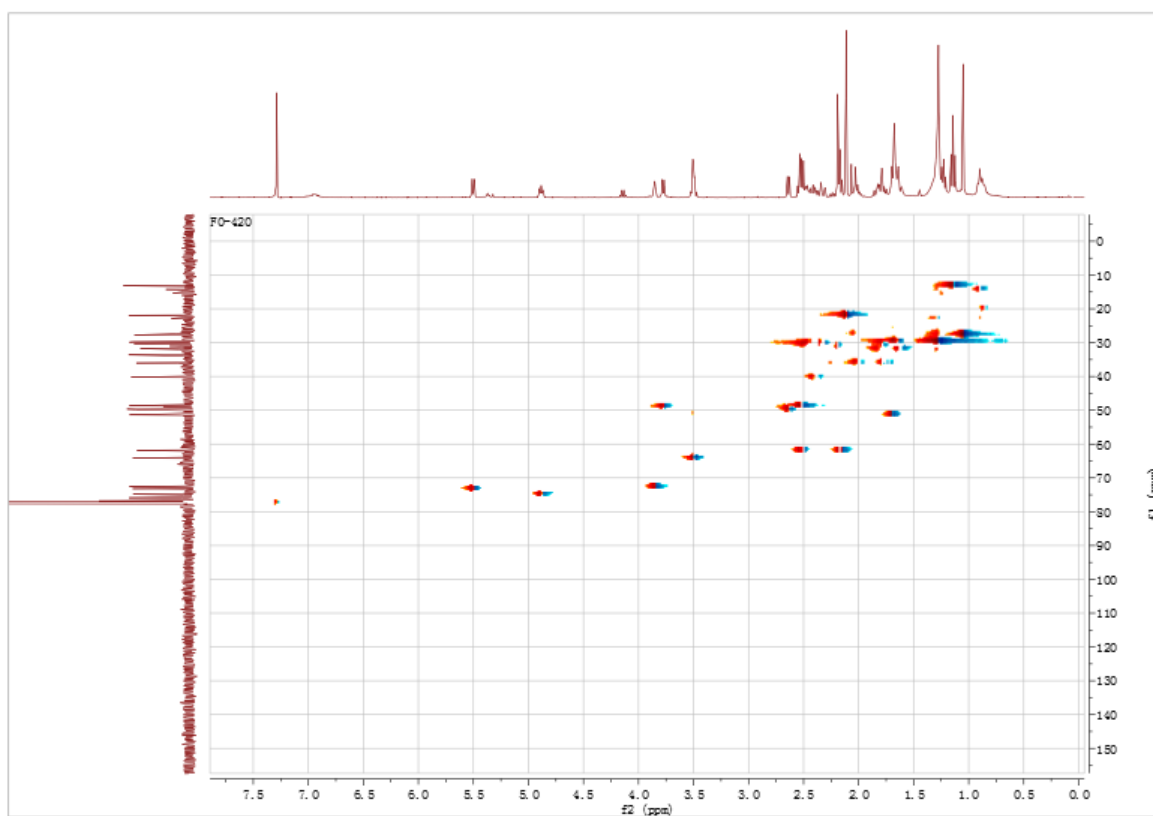
23 DEPT ( $\theta = 135^\circ$ ) spectrum for compound 3



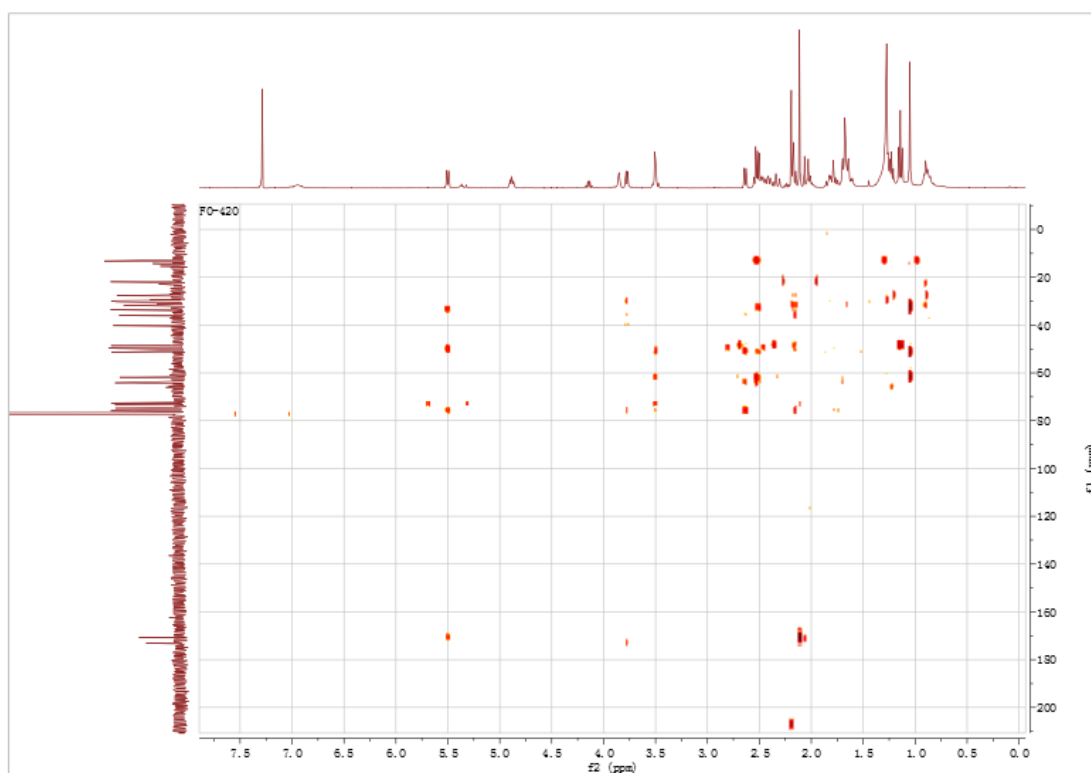
24  $^1\text{H}$ - $^1\text{H}$  COSY spectrum for compound 3



25 HMQC spectrum for compound 3



26 HMBC spectrum for compound 3



27 Noesy spectrum for compound 3

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