

# Design, Synthesis and Biological Activity Testing of Library of Sphk1 Inhibitors

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#S.G. and H.C. contributed equally to this paper.

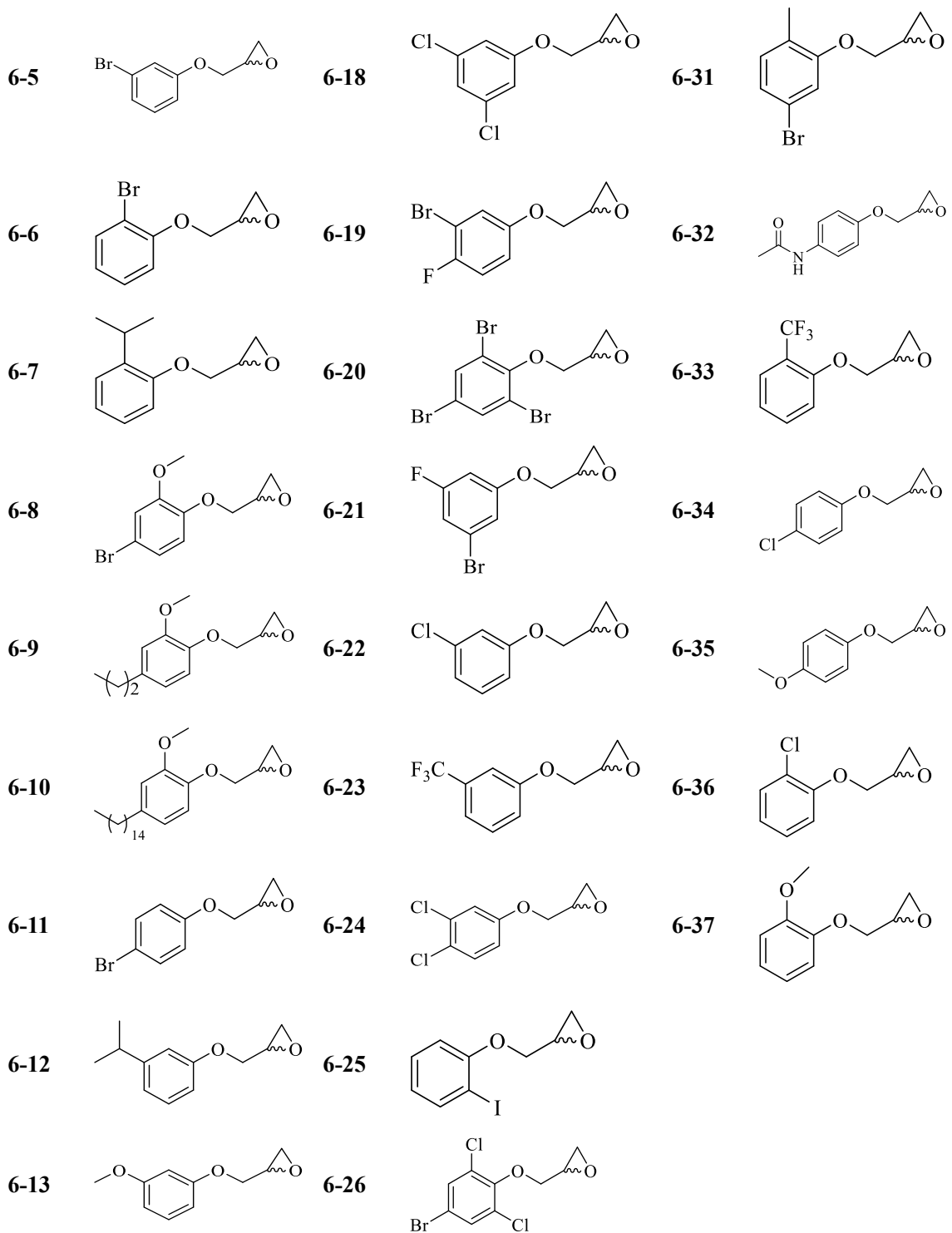
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### 1. The structures of phenoxy-2,3-epoxypropane compounds (6)

**Table S1. The structures of phenoxy-2,3-epoxypropane compounds (6)**

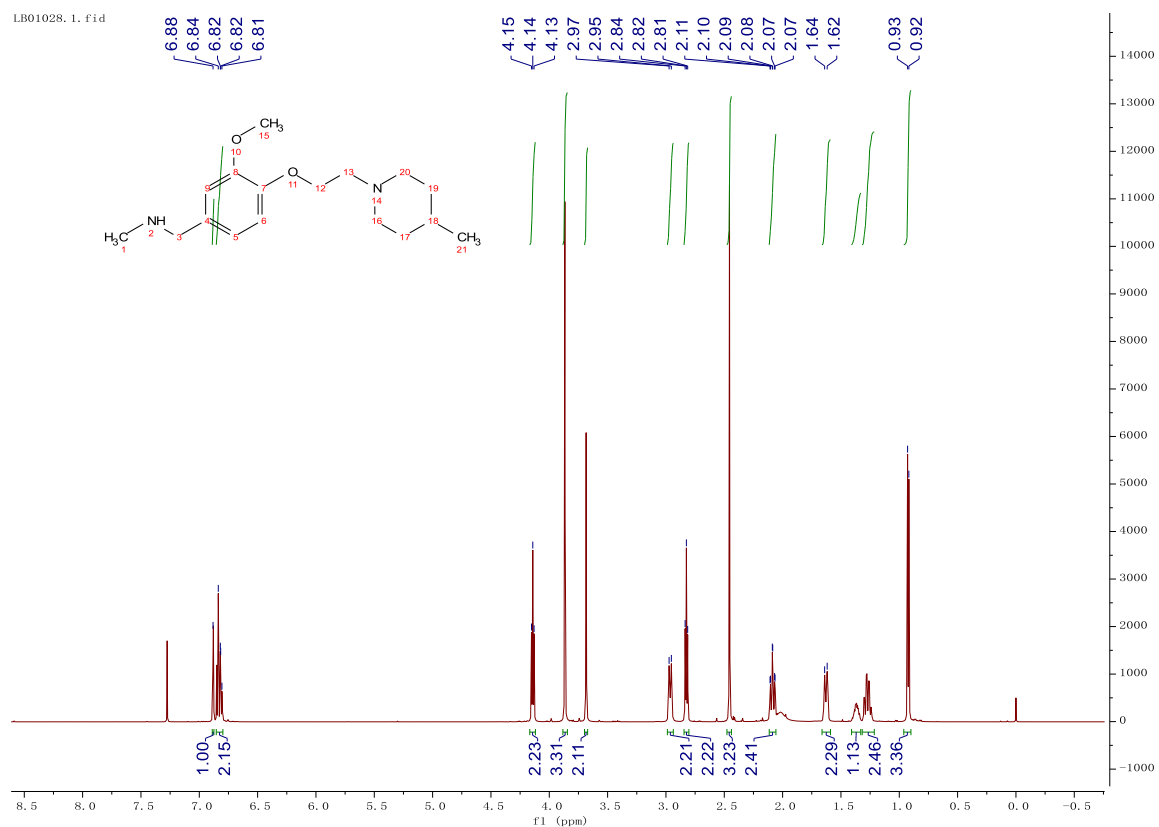
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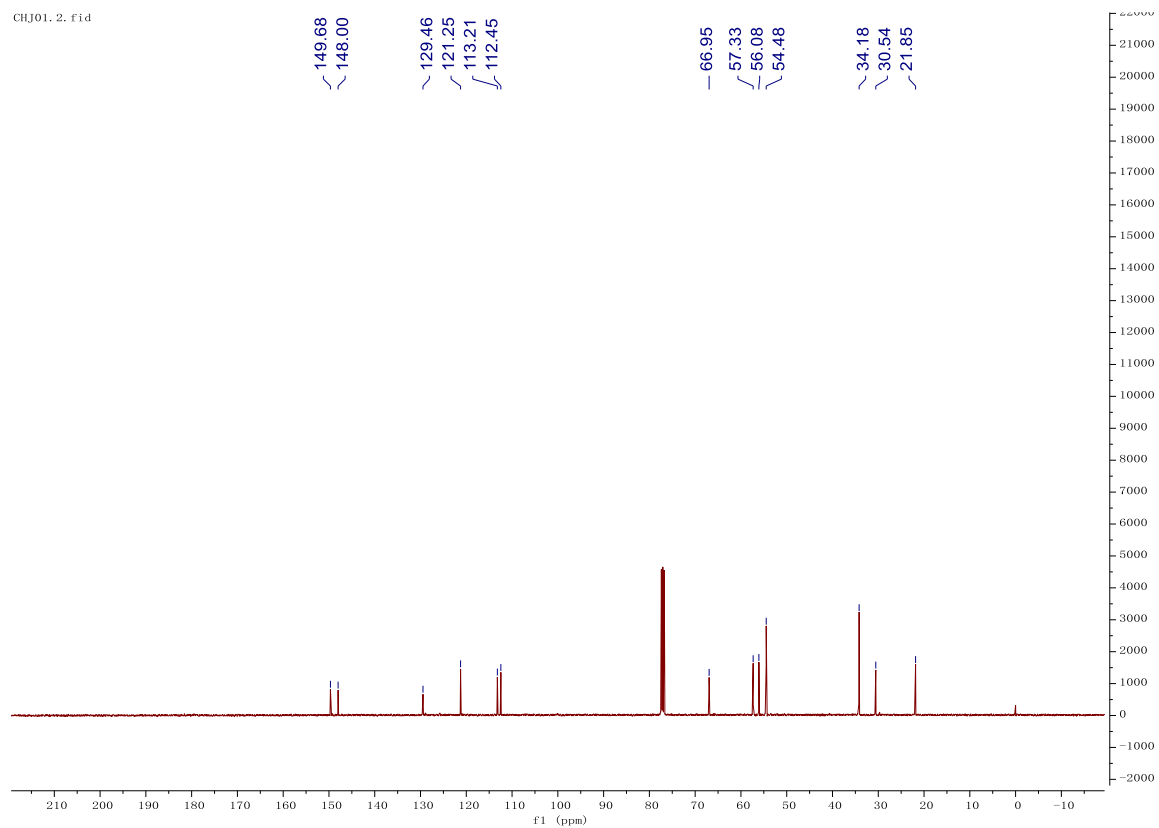
## 2. Copies of NMR ( $^1\text{H}$ and $^{13}\text{C}$ ) Compounds

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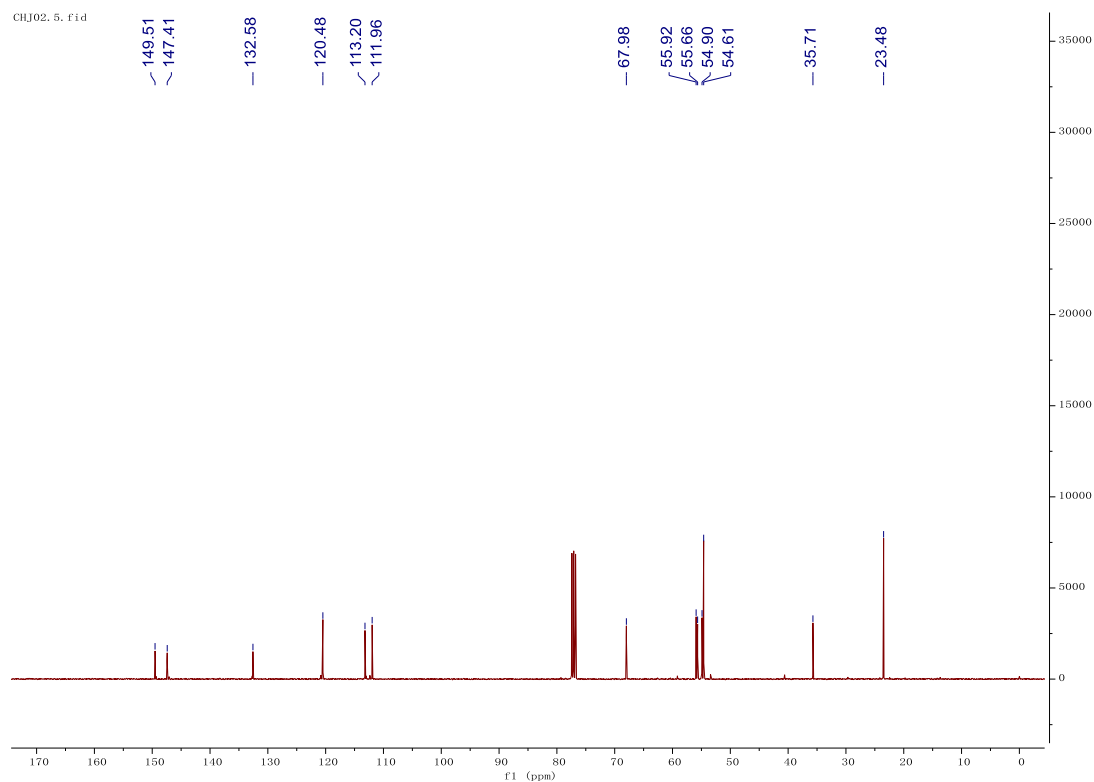
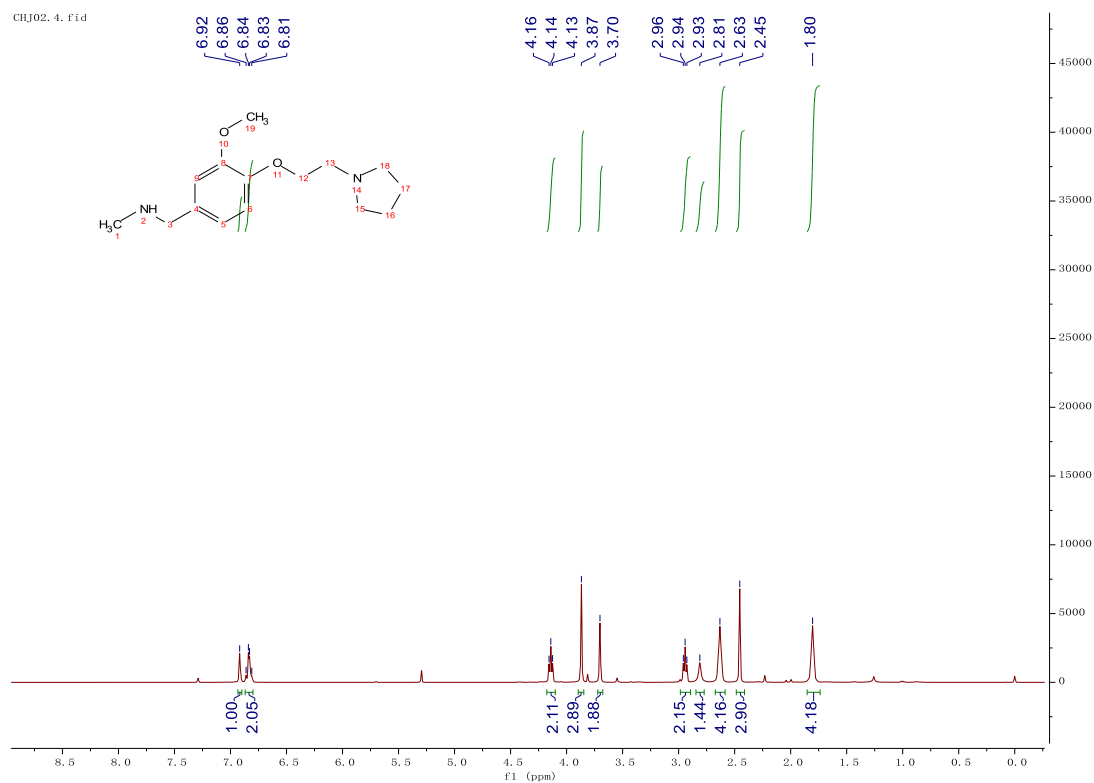
LB01028. 1. f1d



CHJ01. 2. f1d



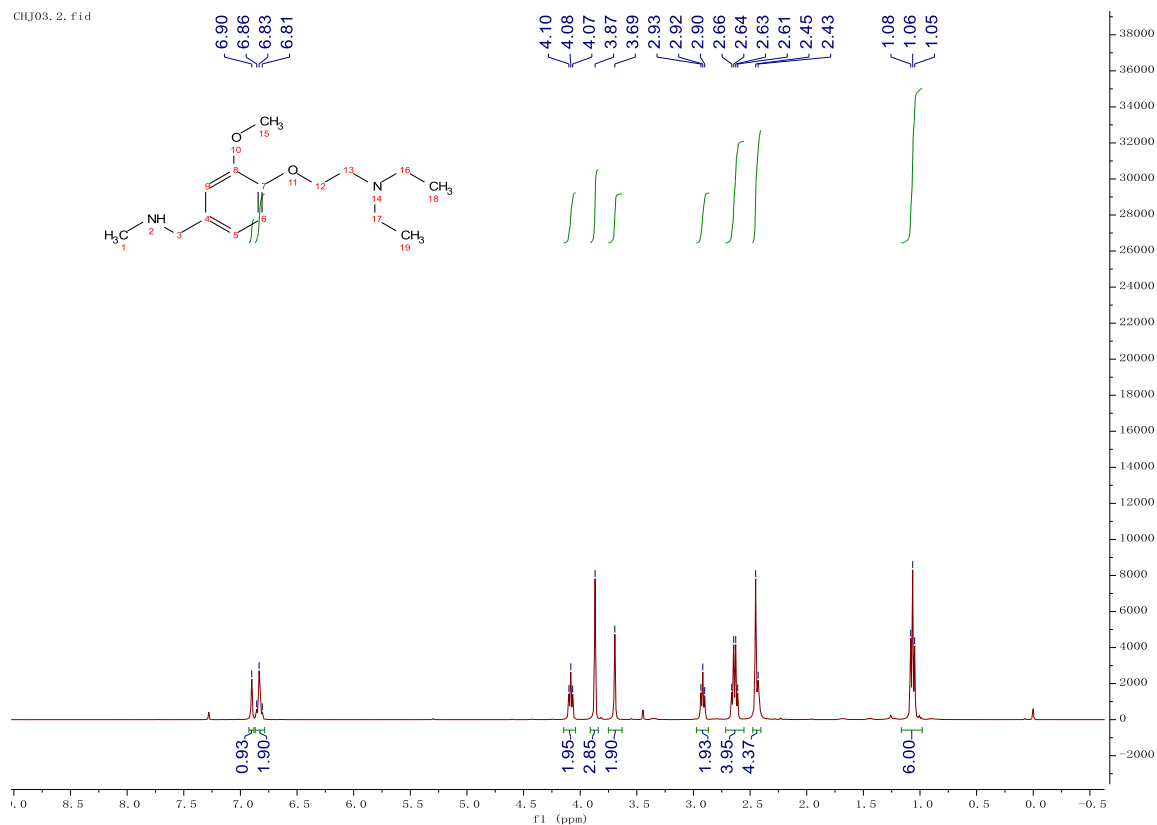
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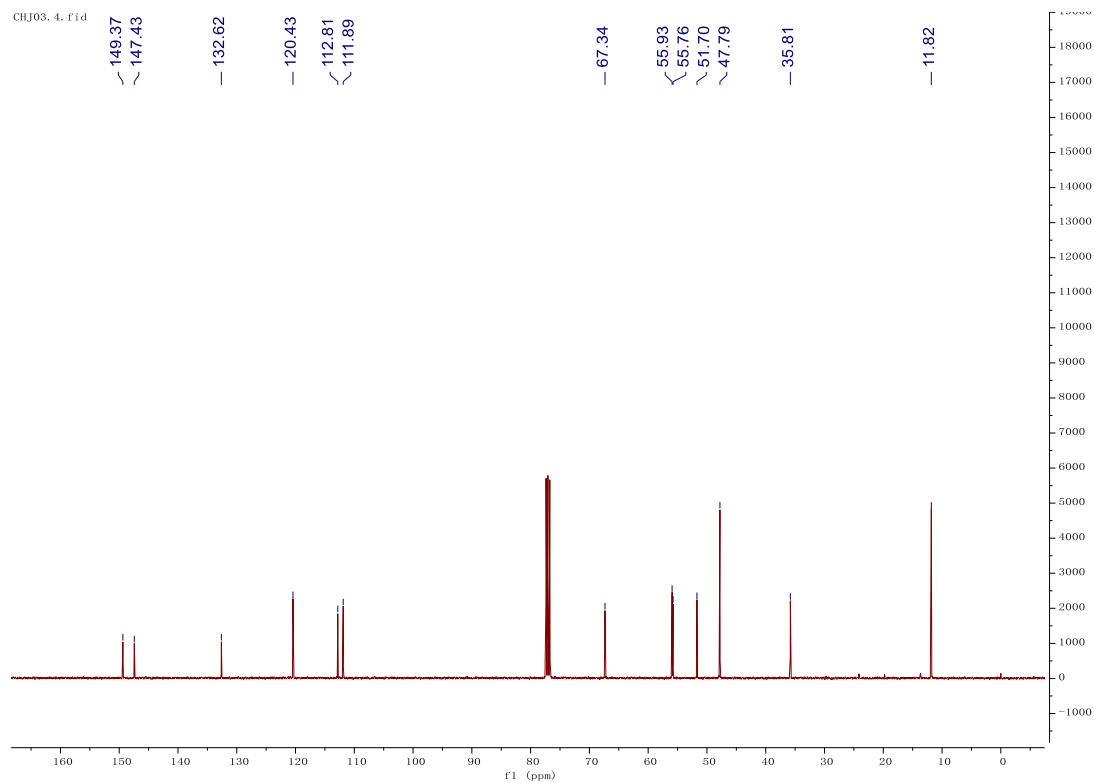


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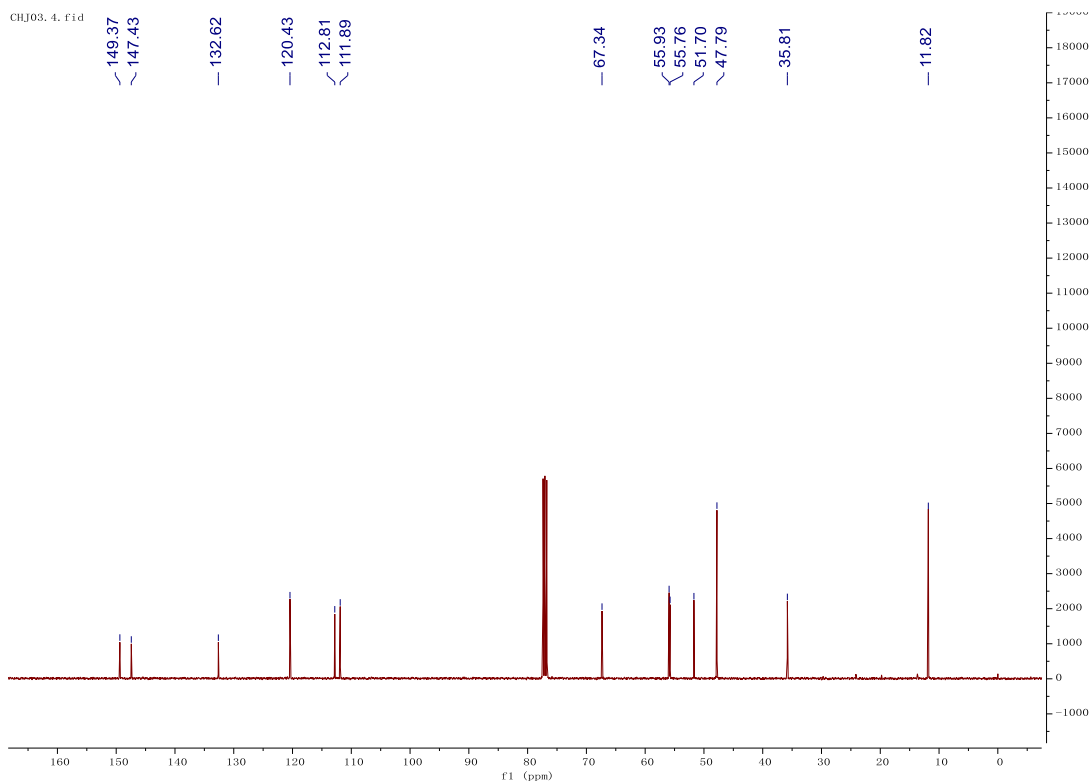
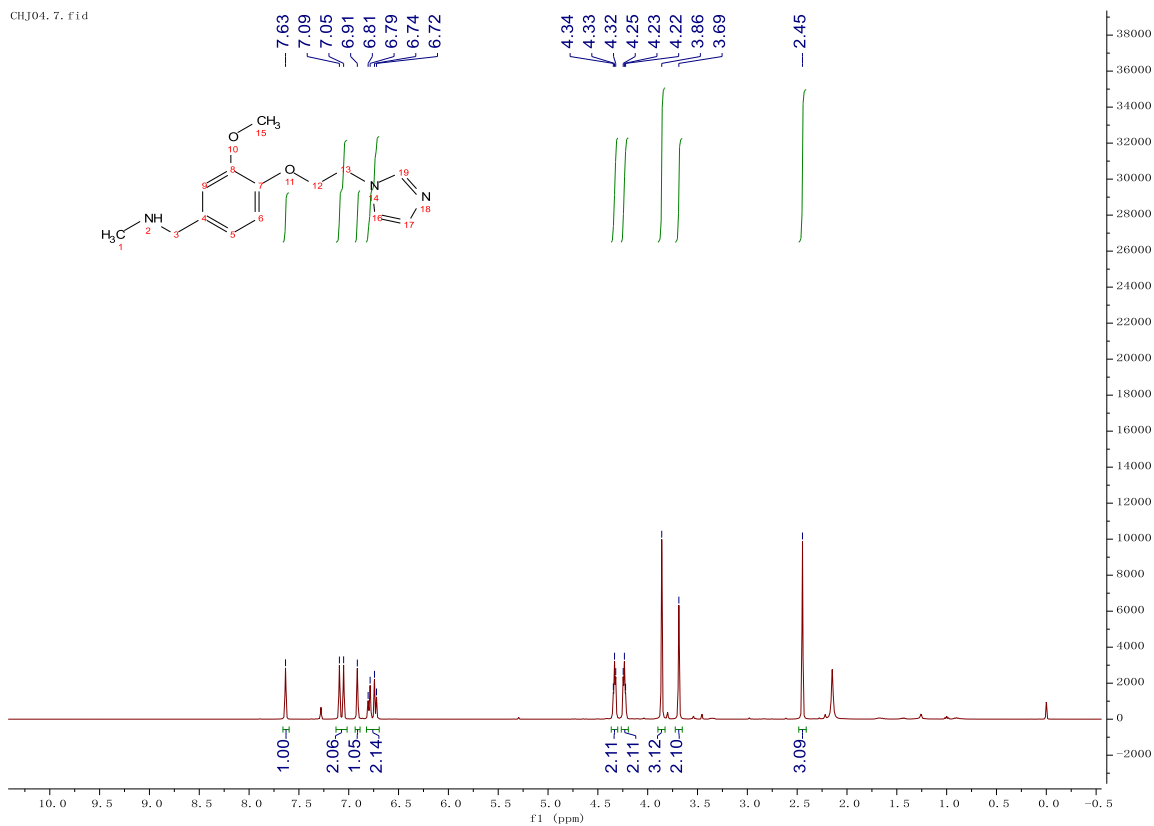
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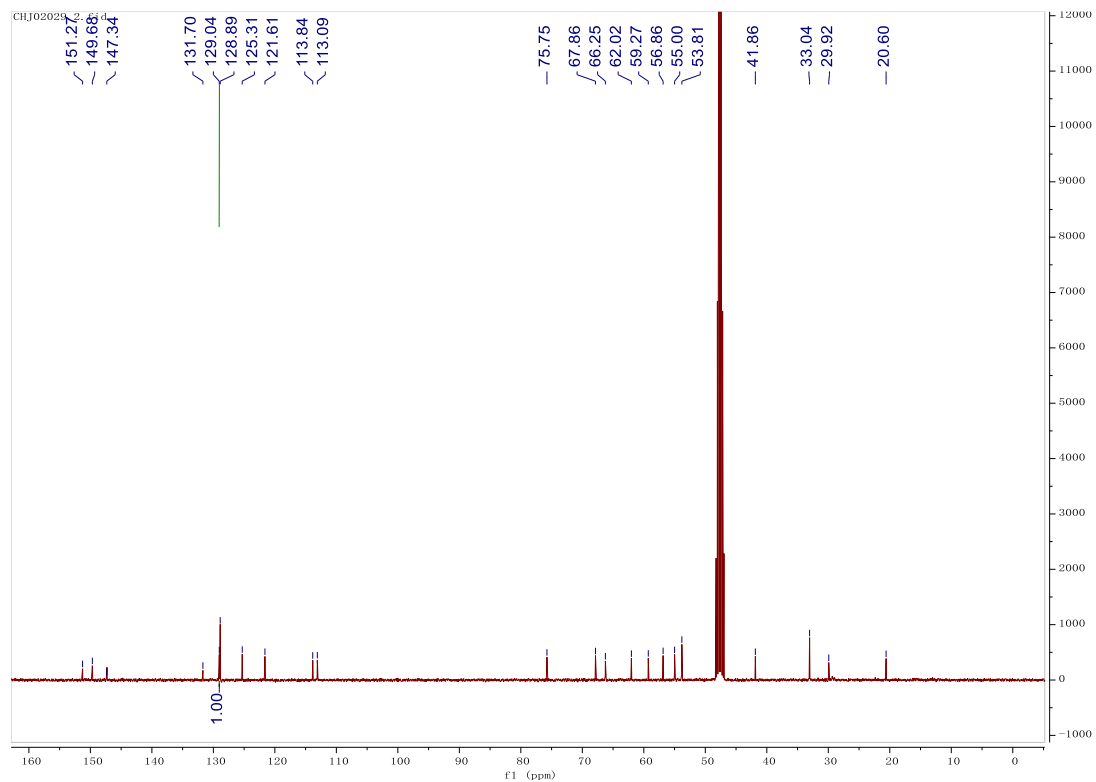
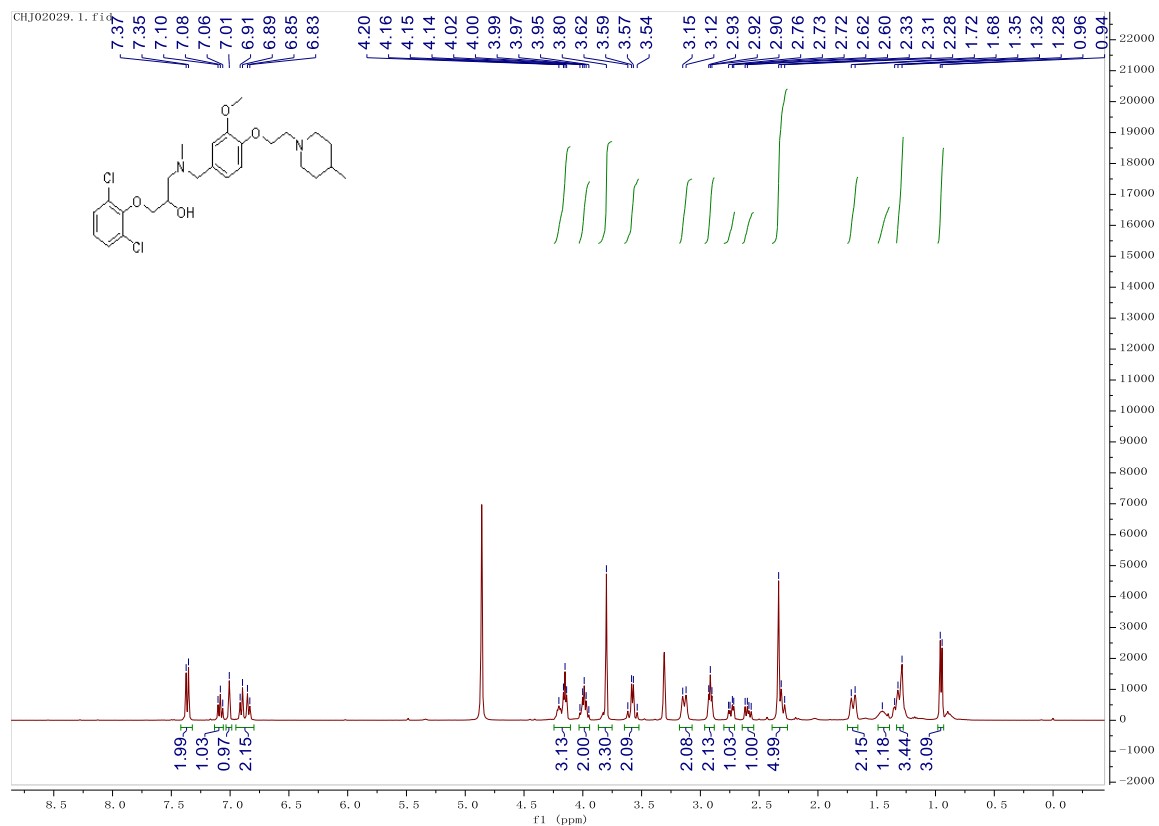
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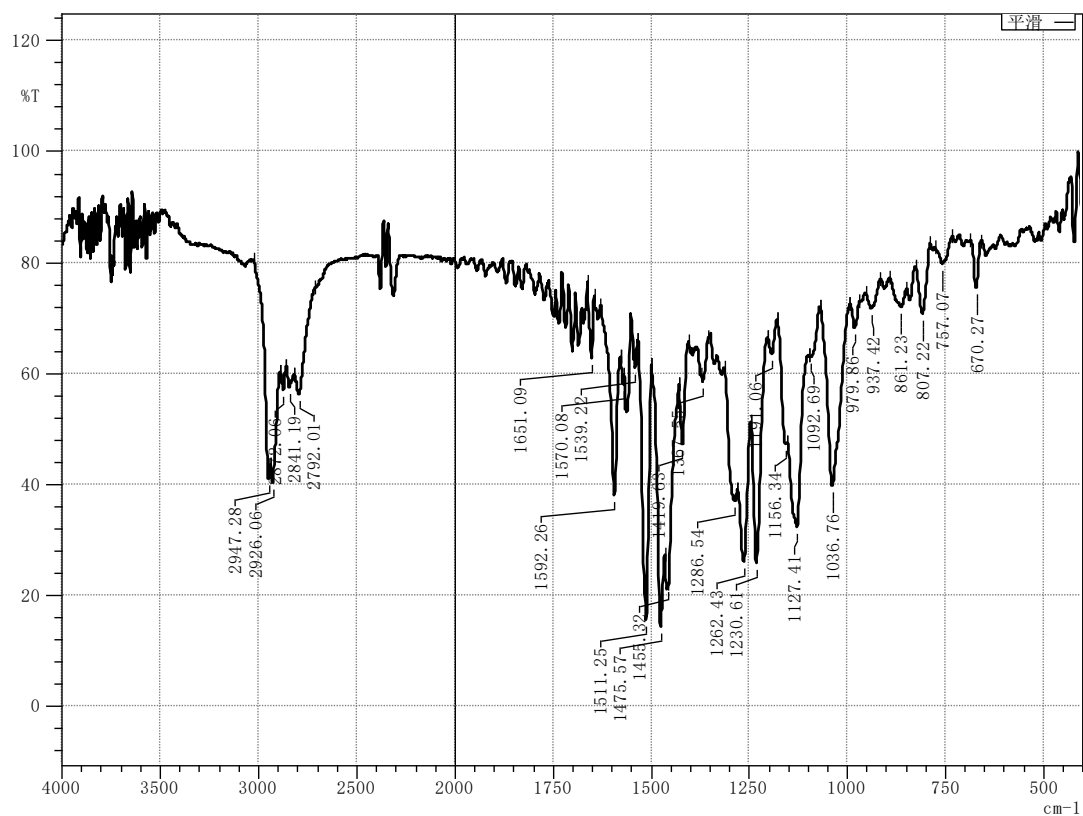


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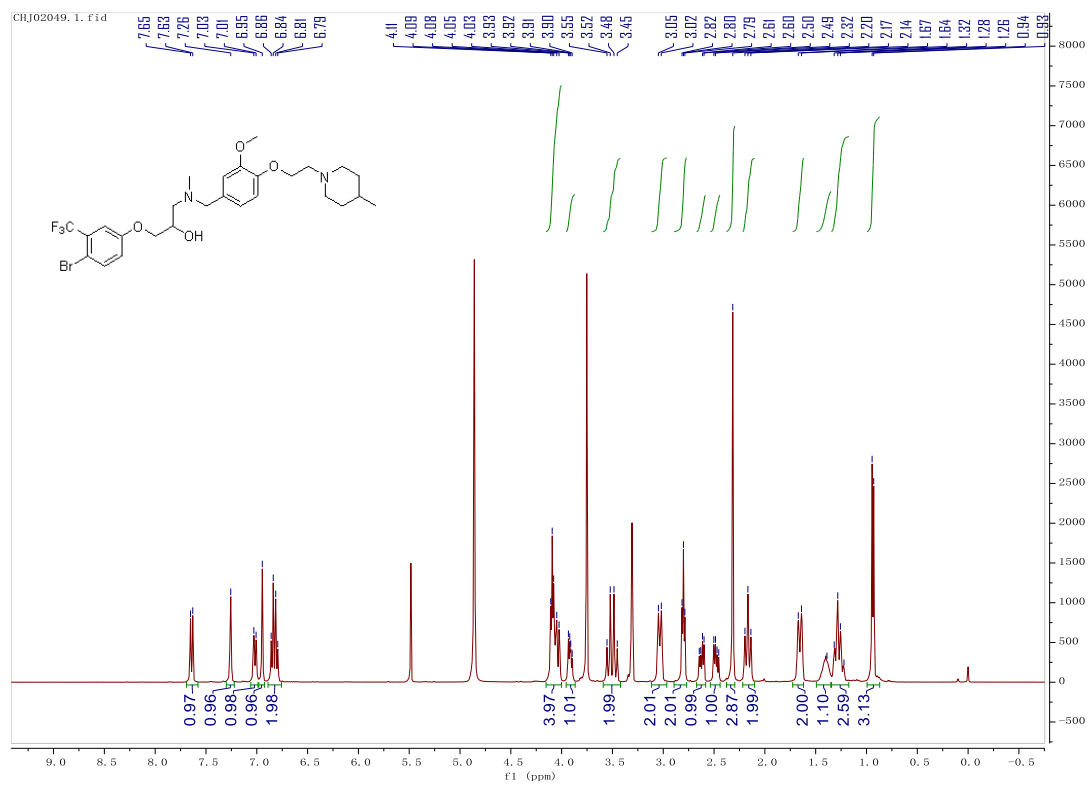


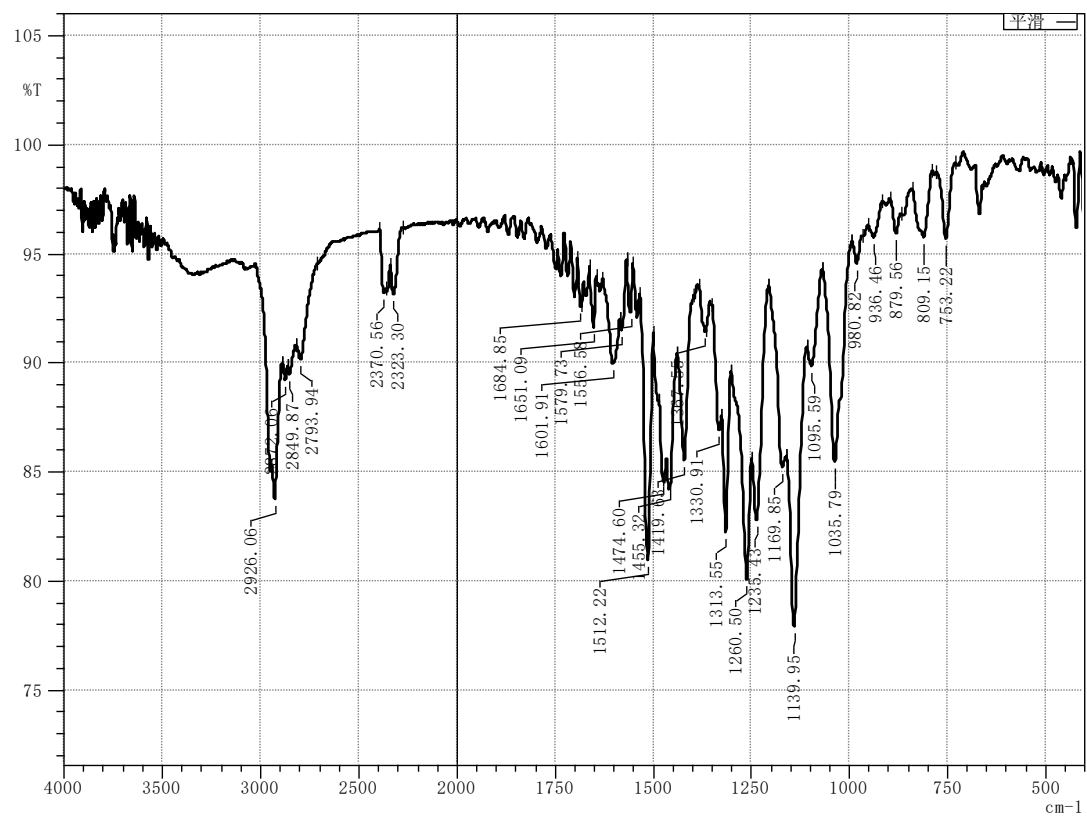
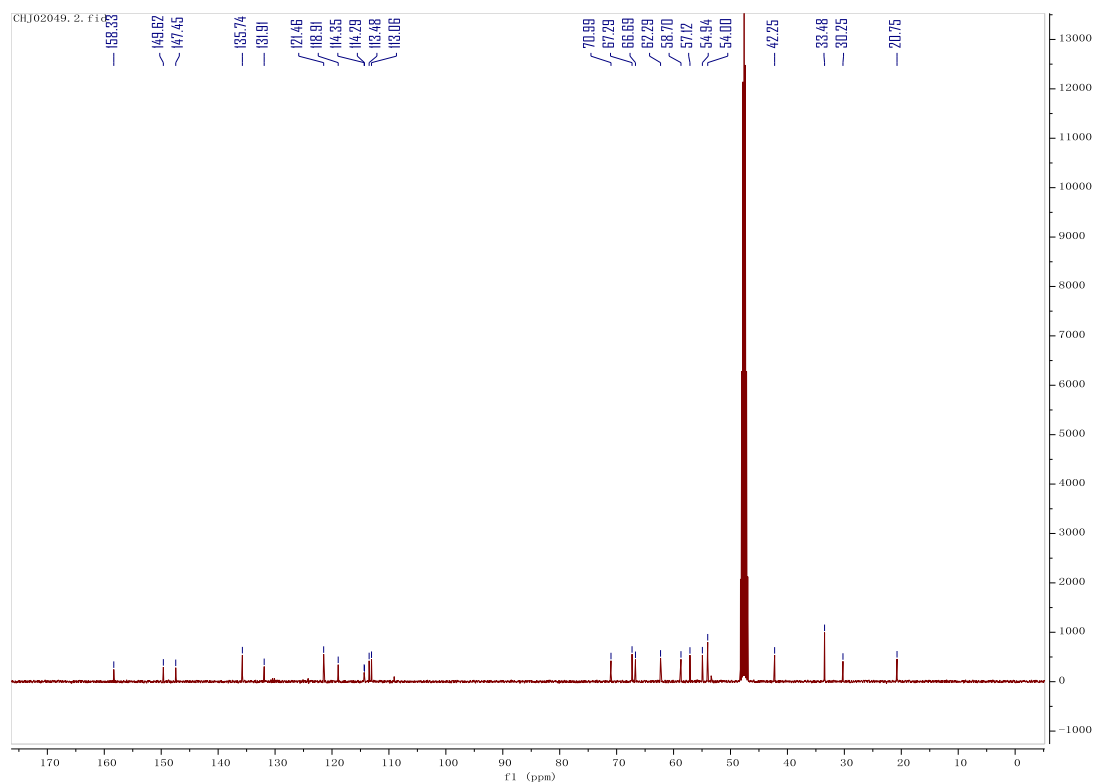
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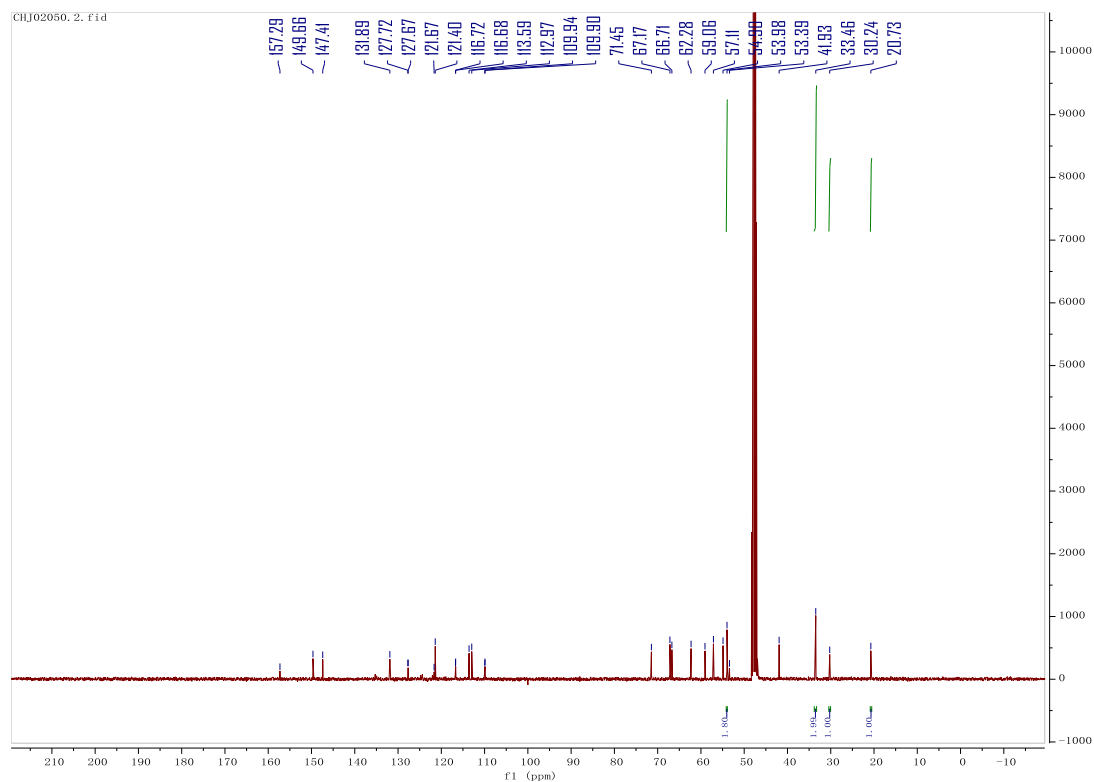
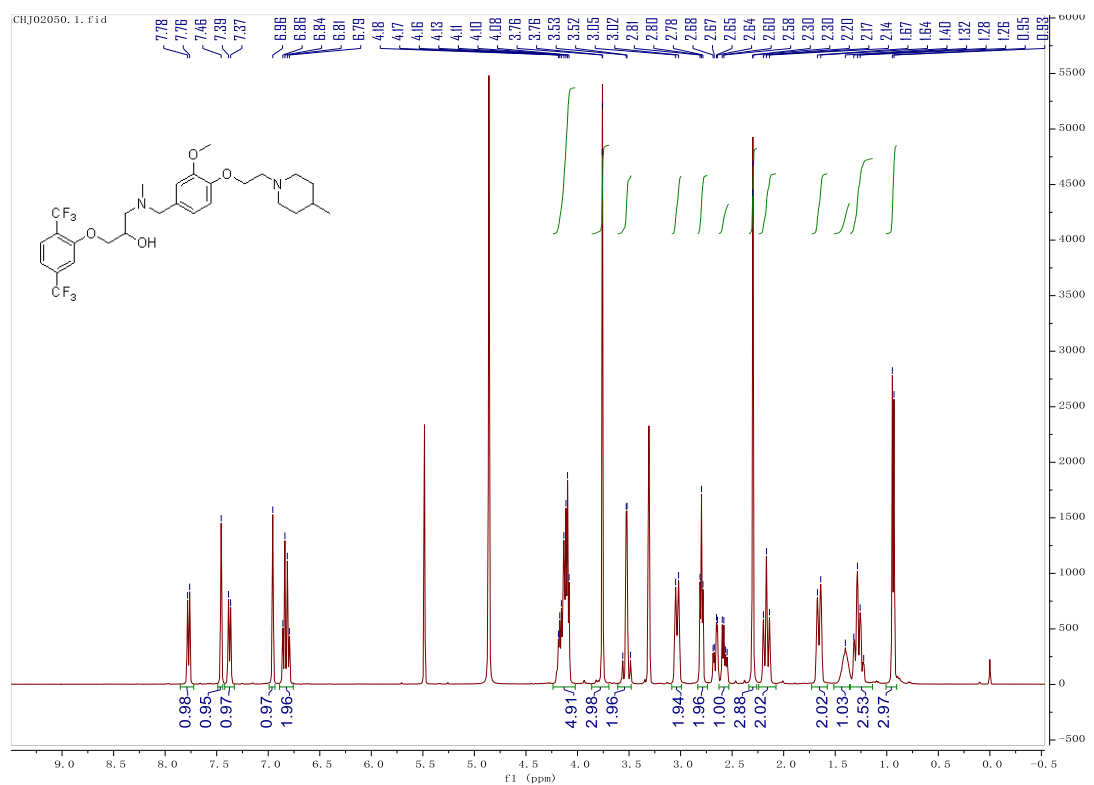


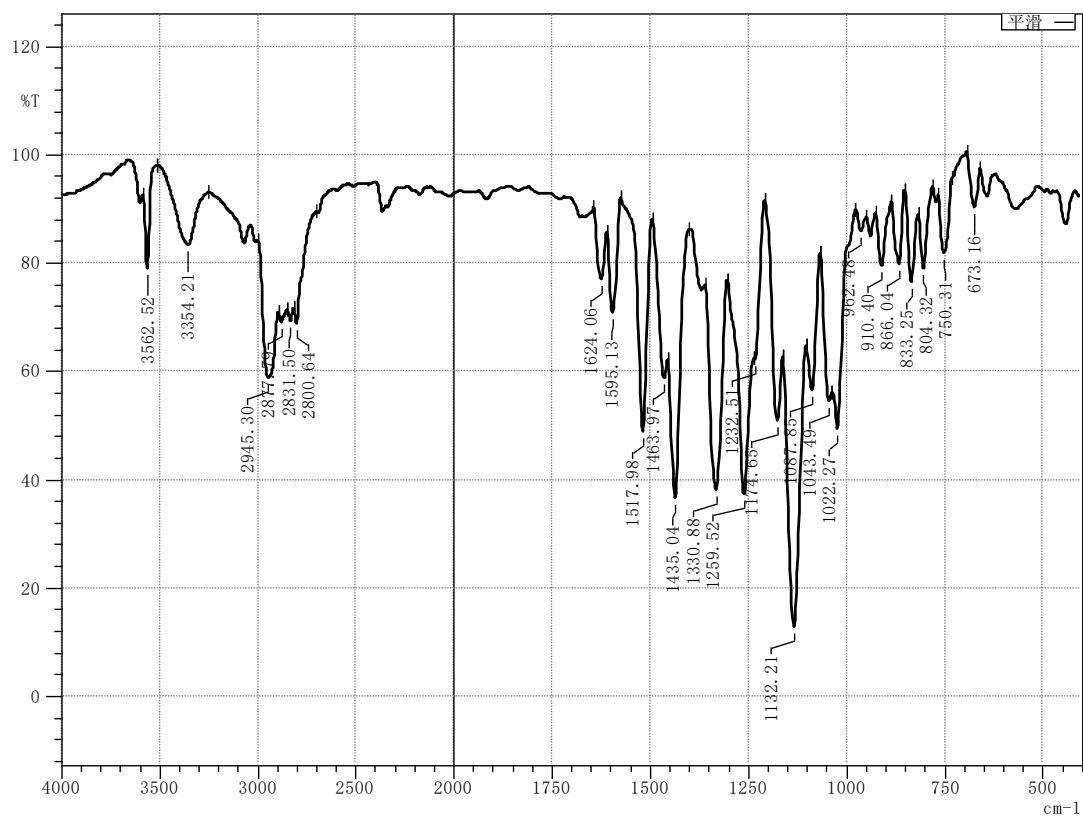
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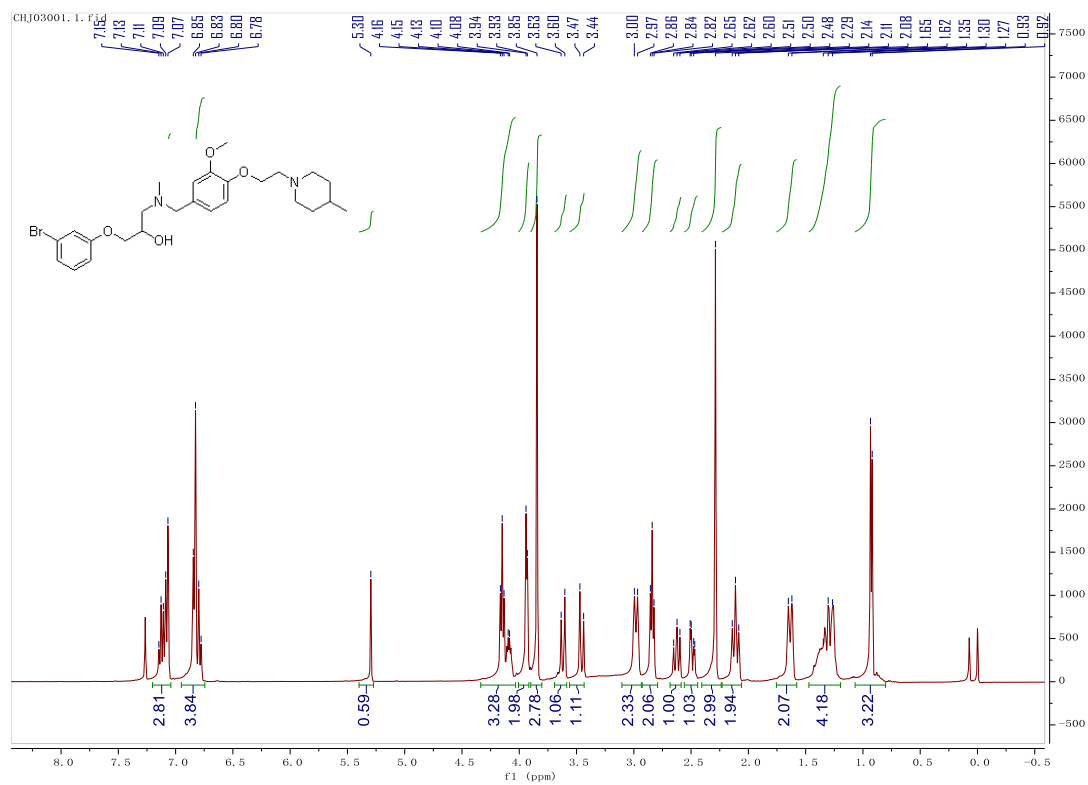


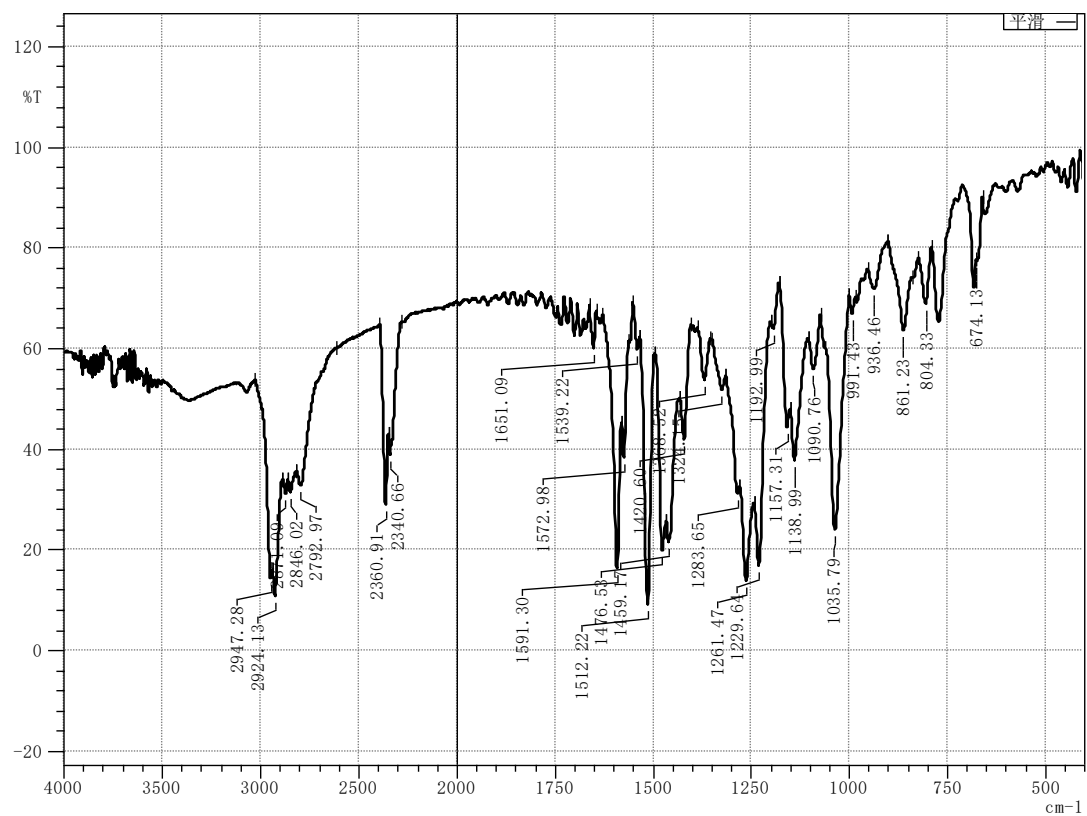
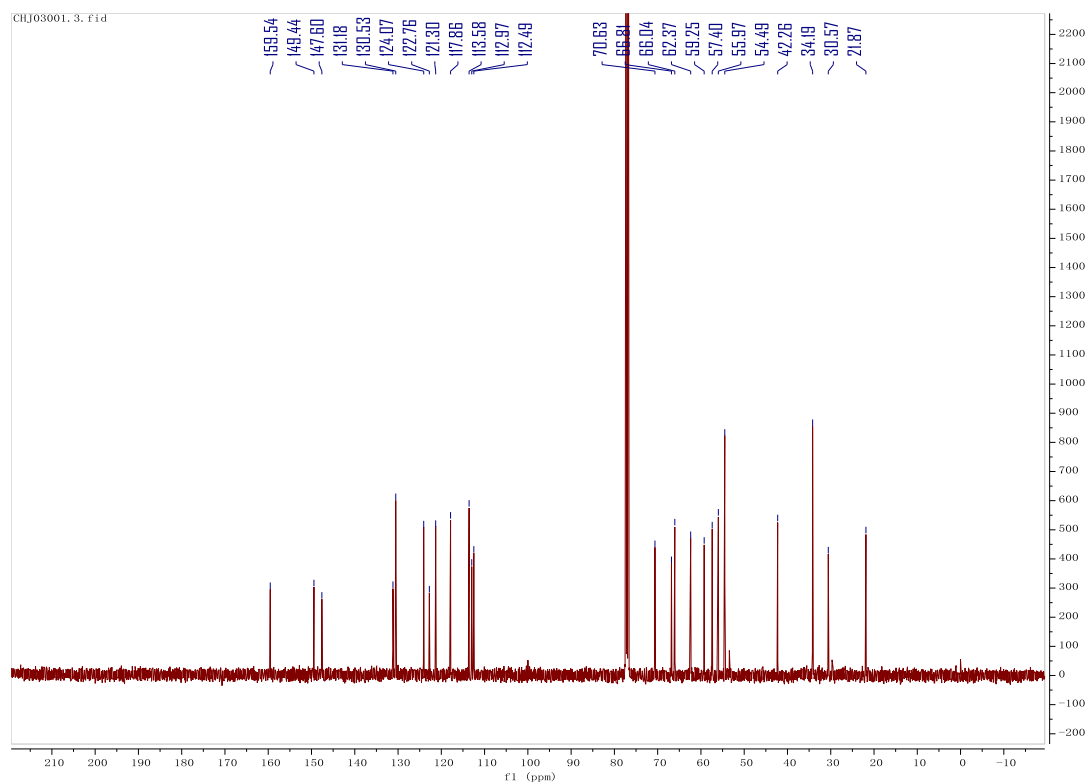
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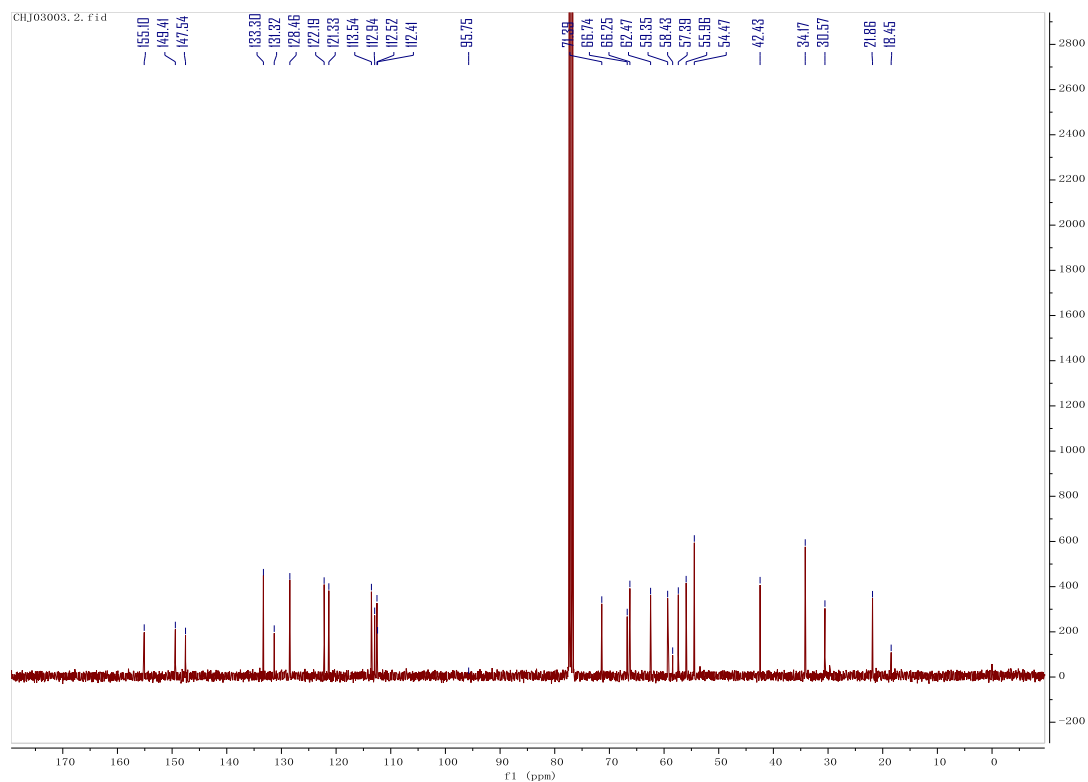
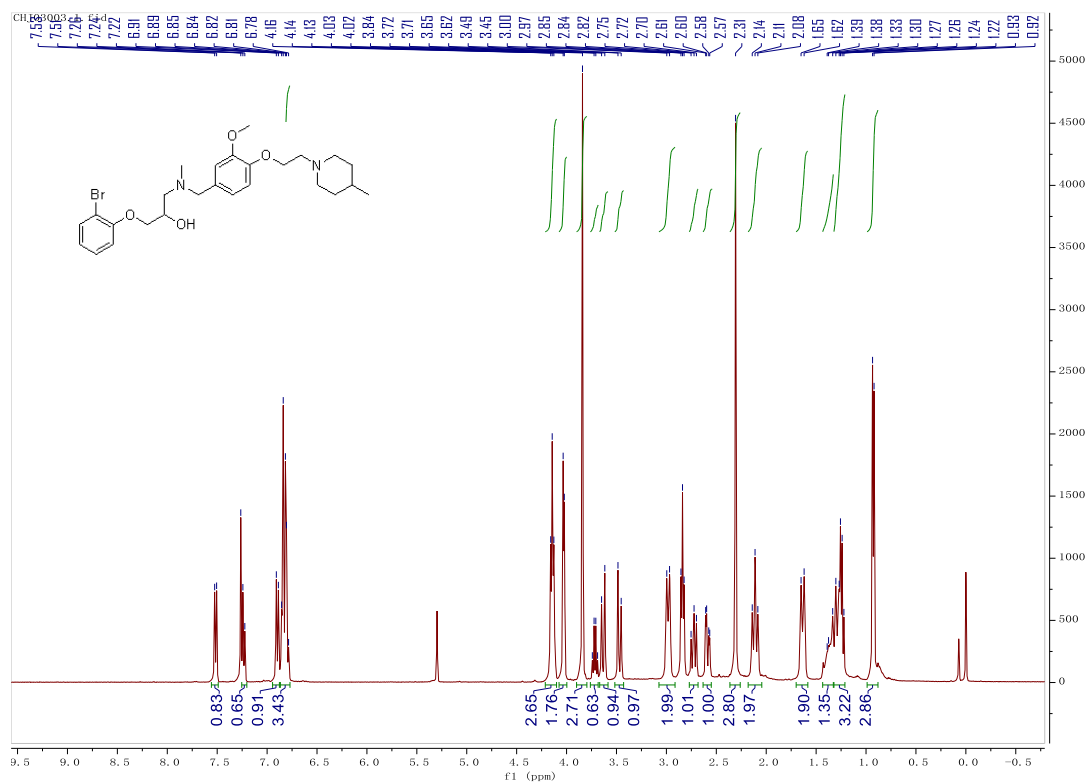
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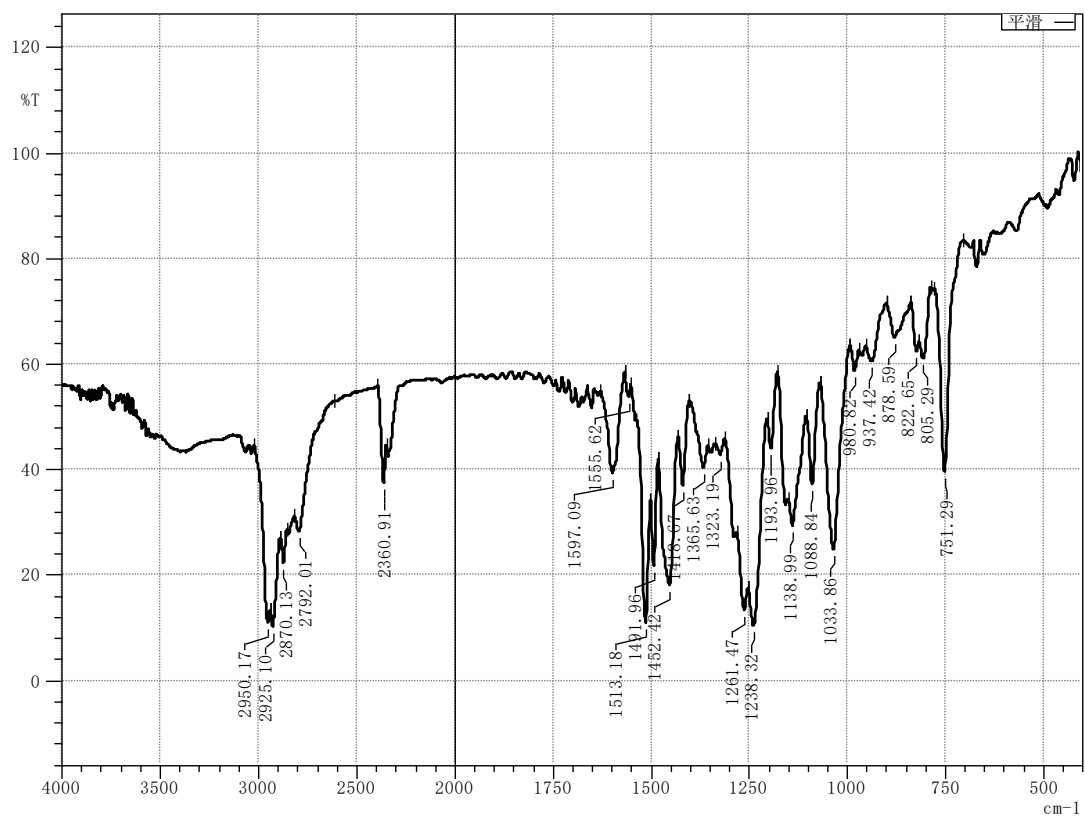




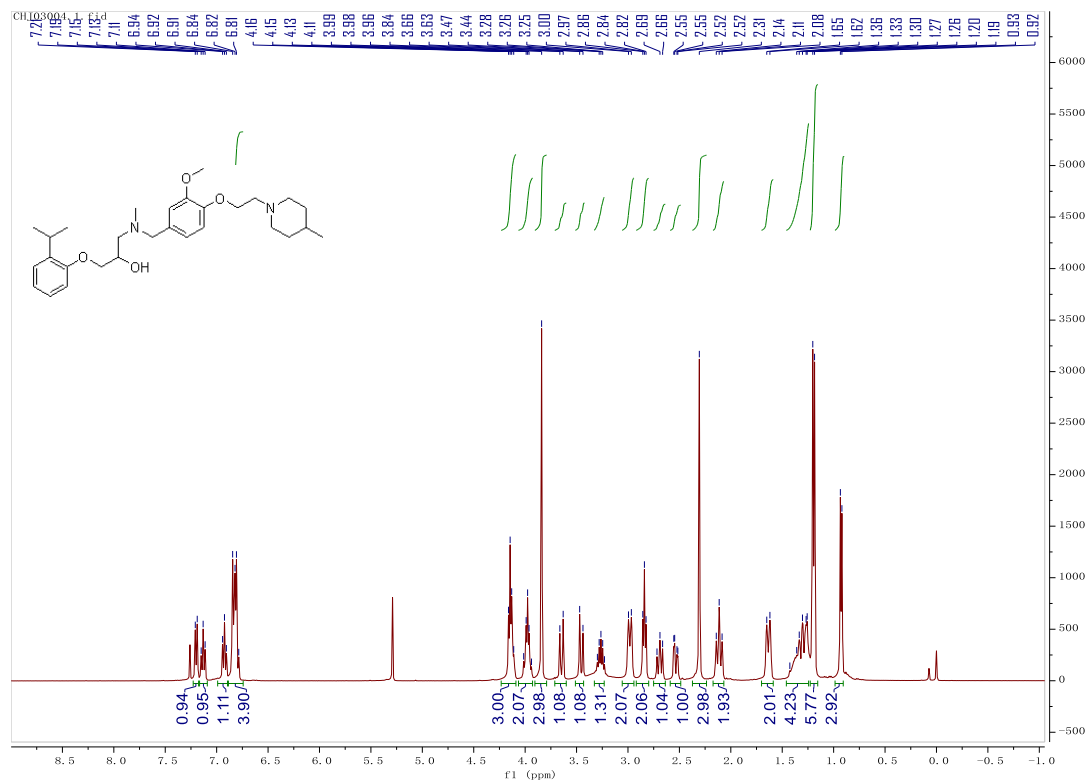


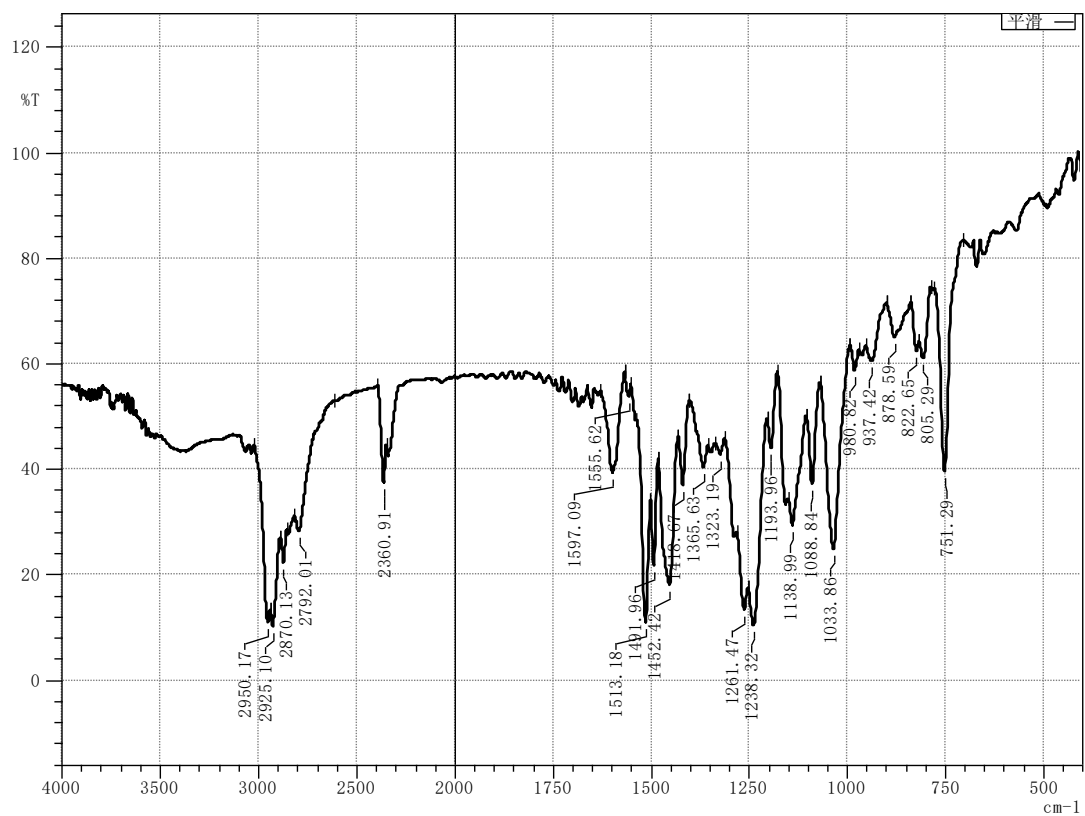
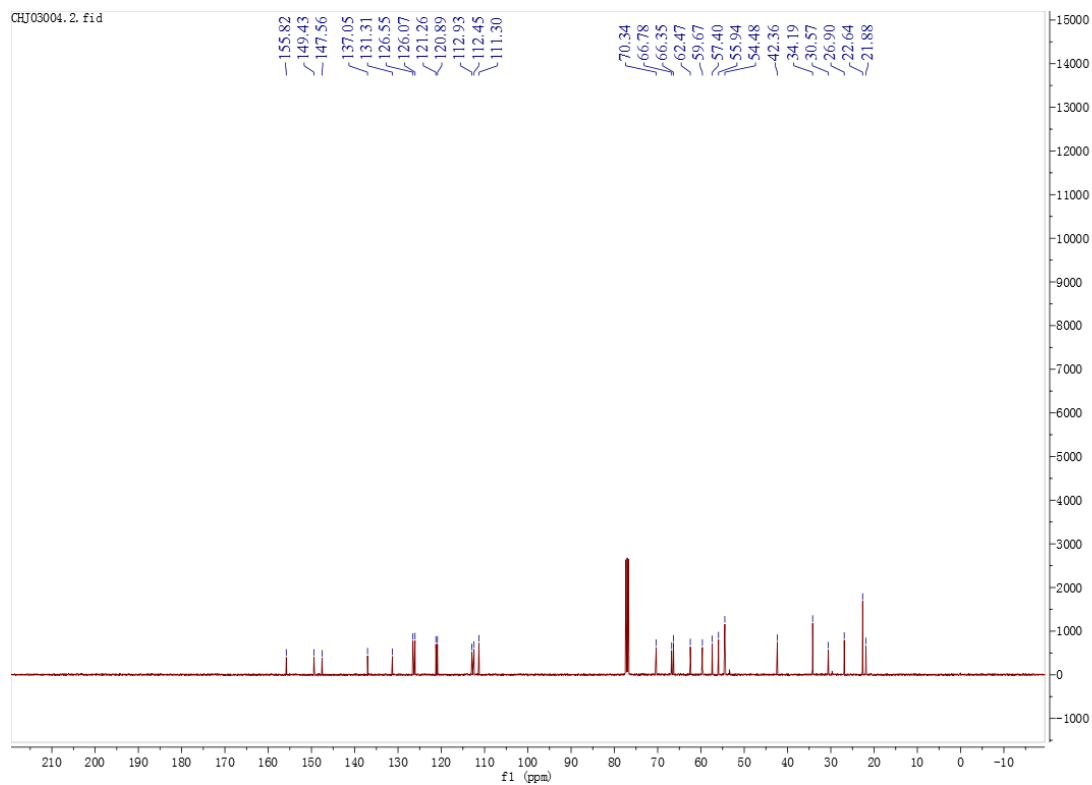
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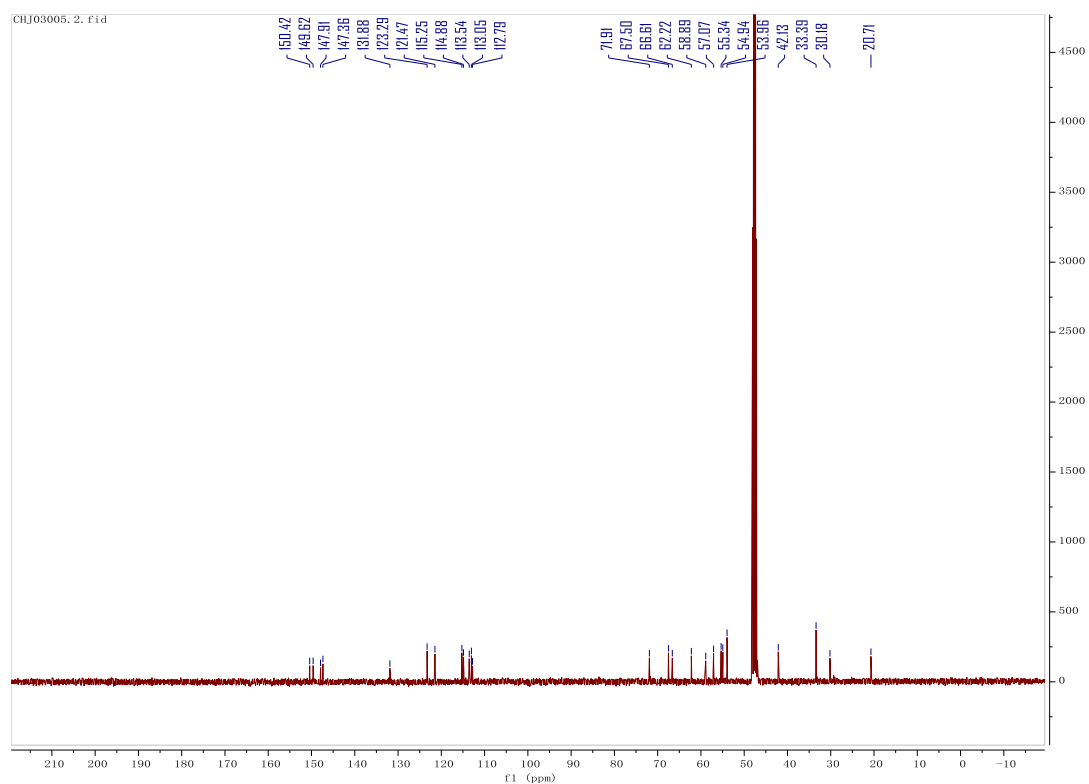
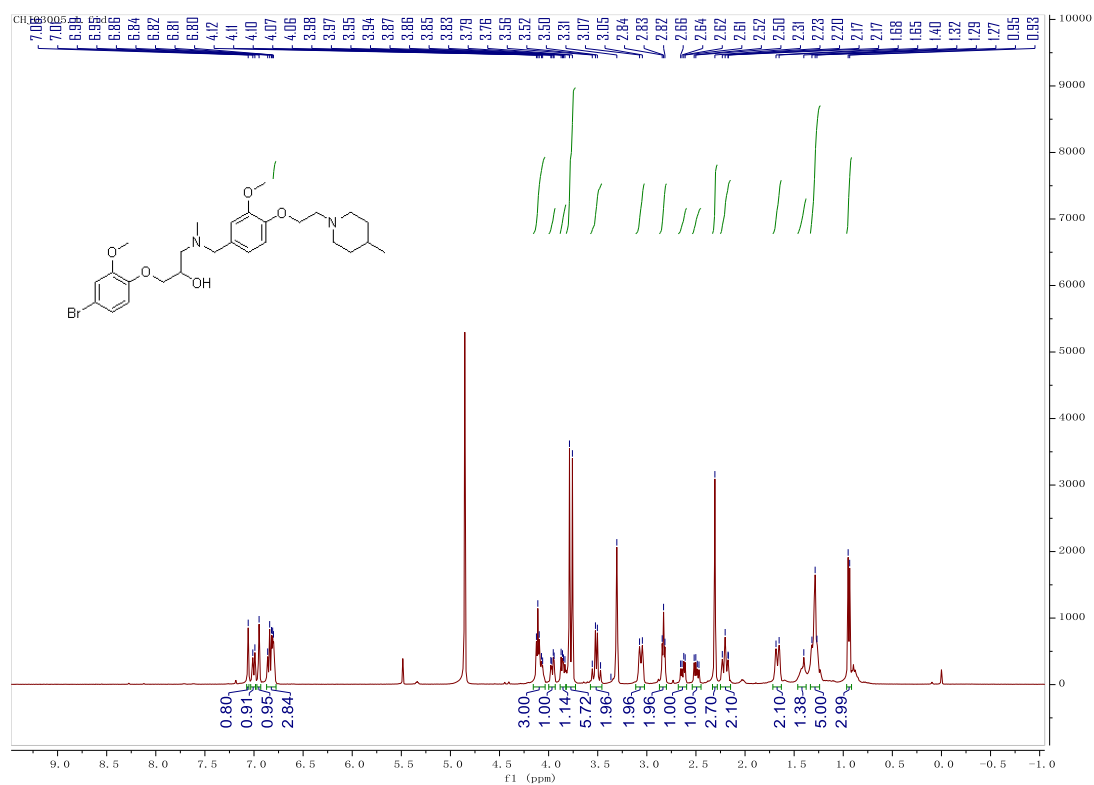


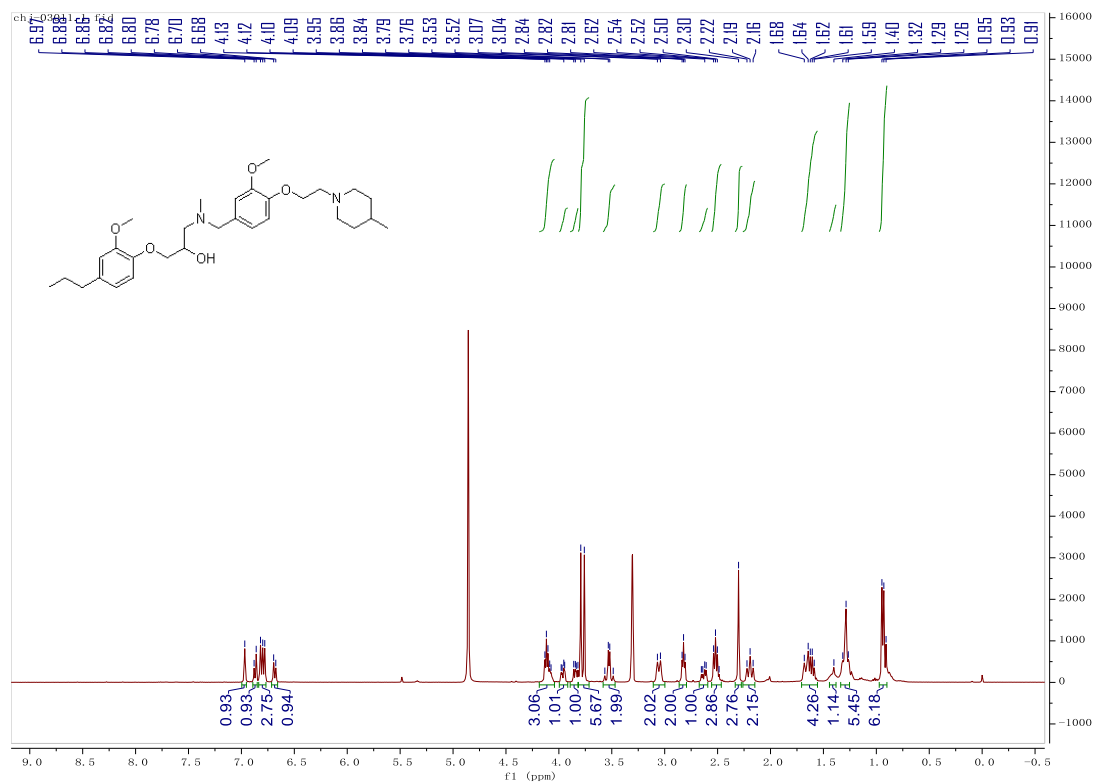
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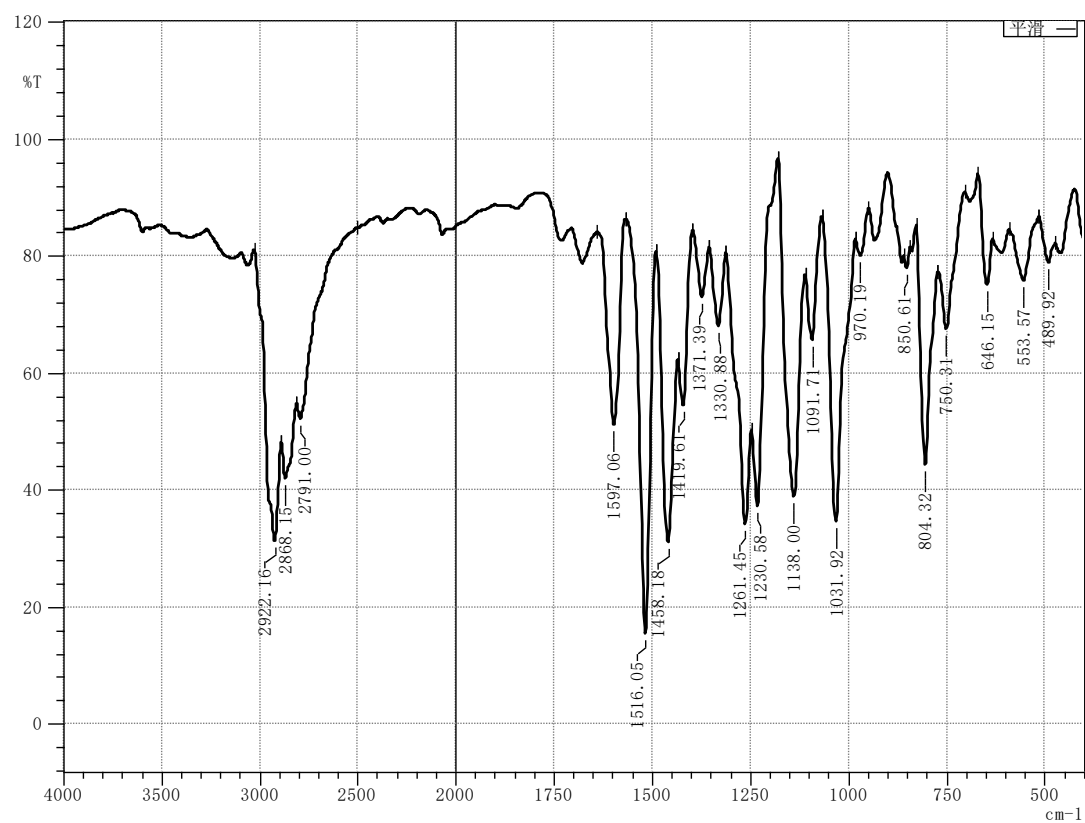
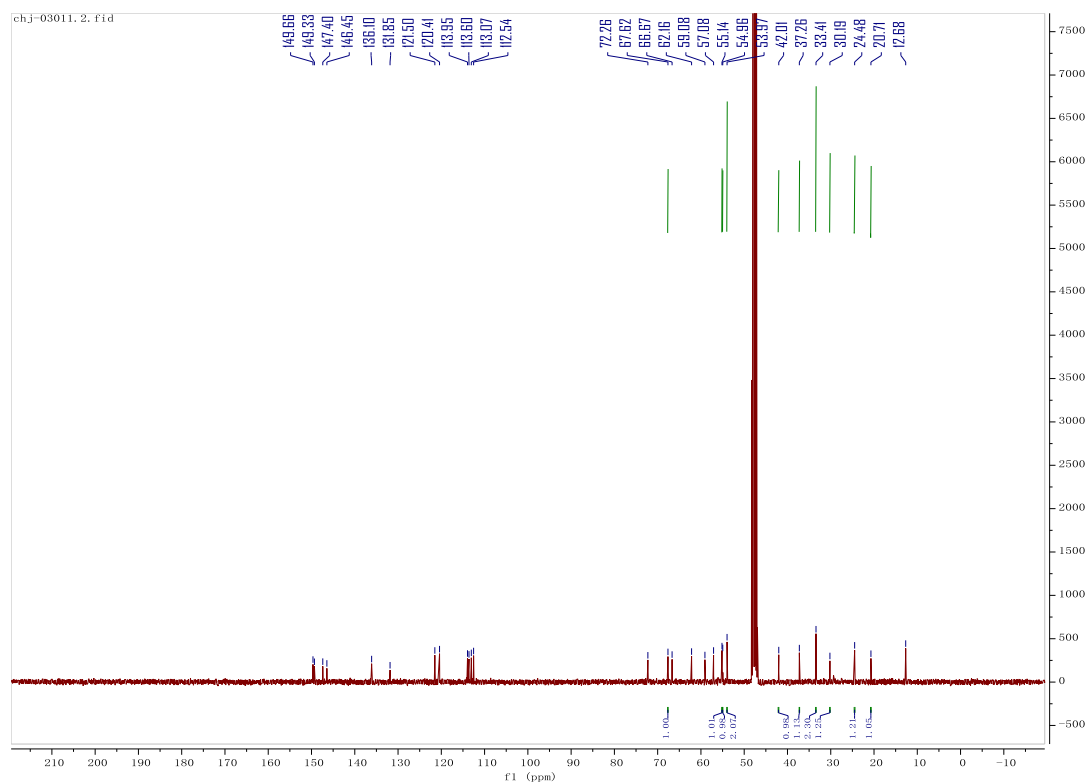




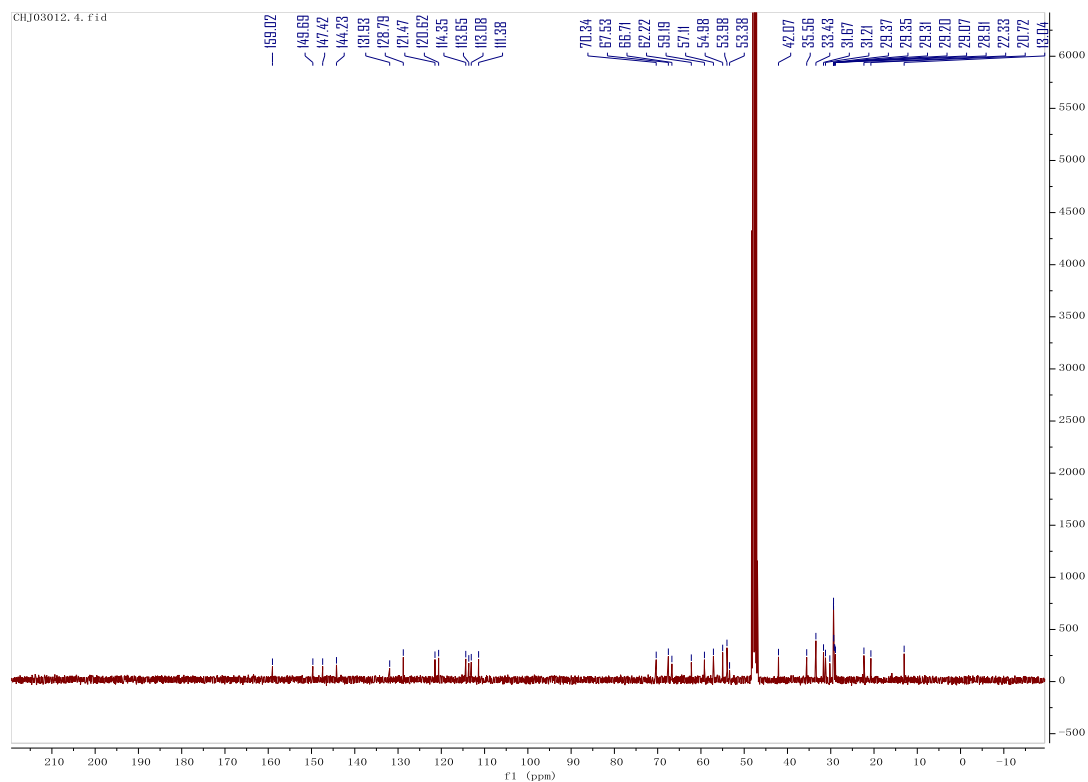
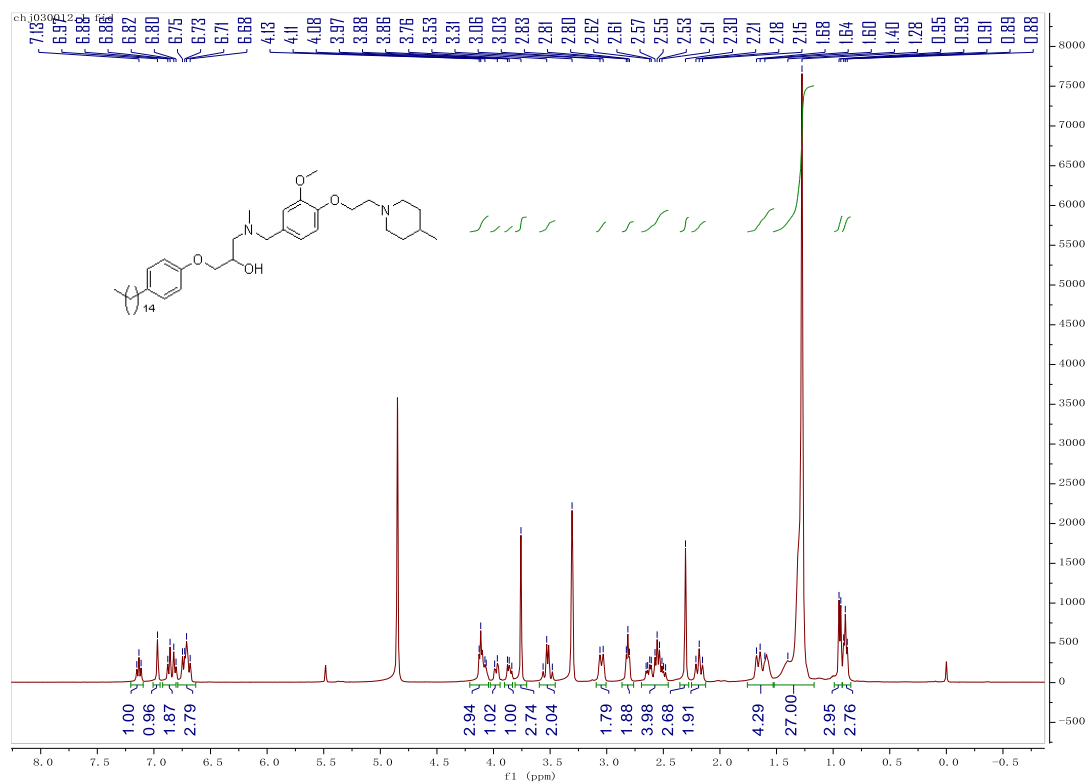
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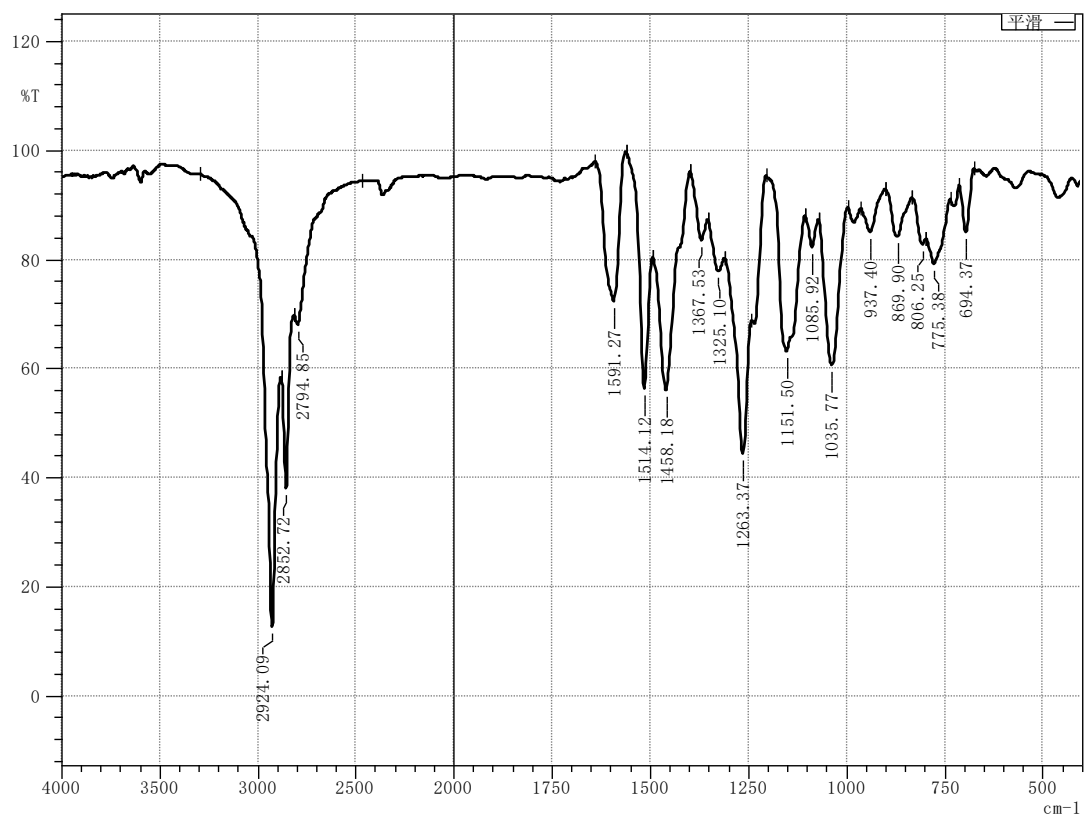




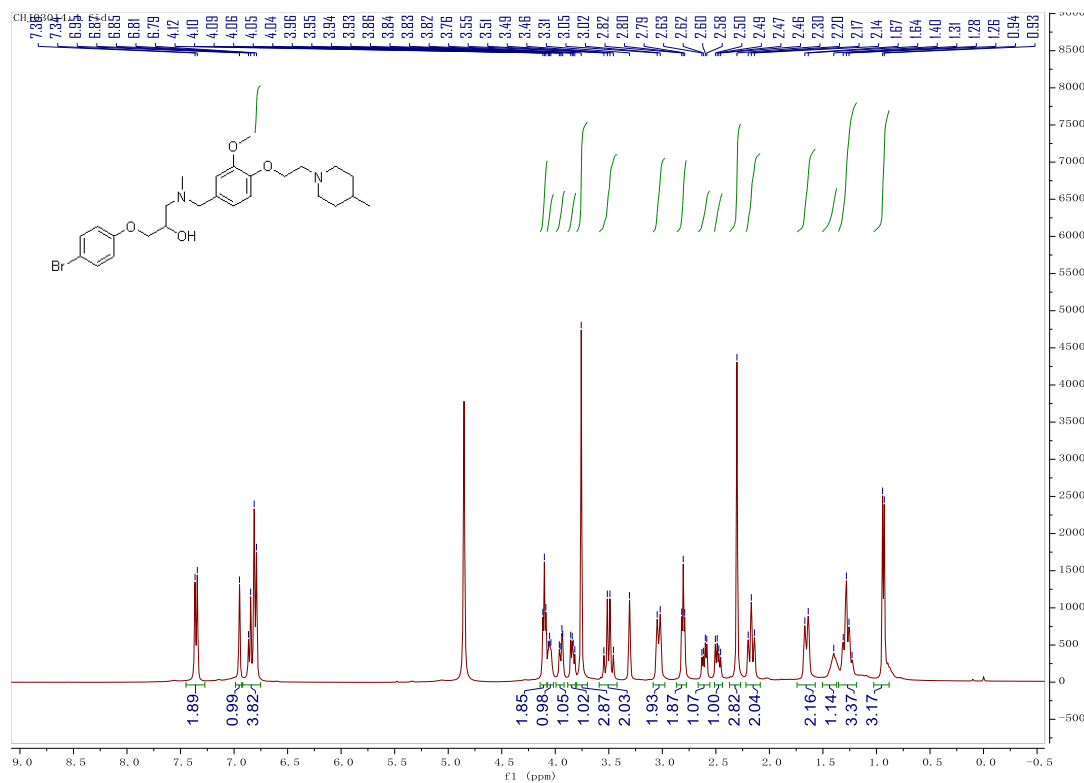


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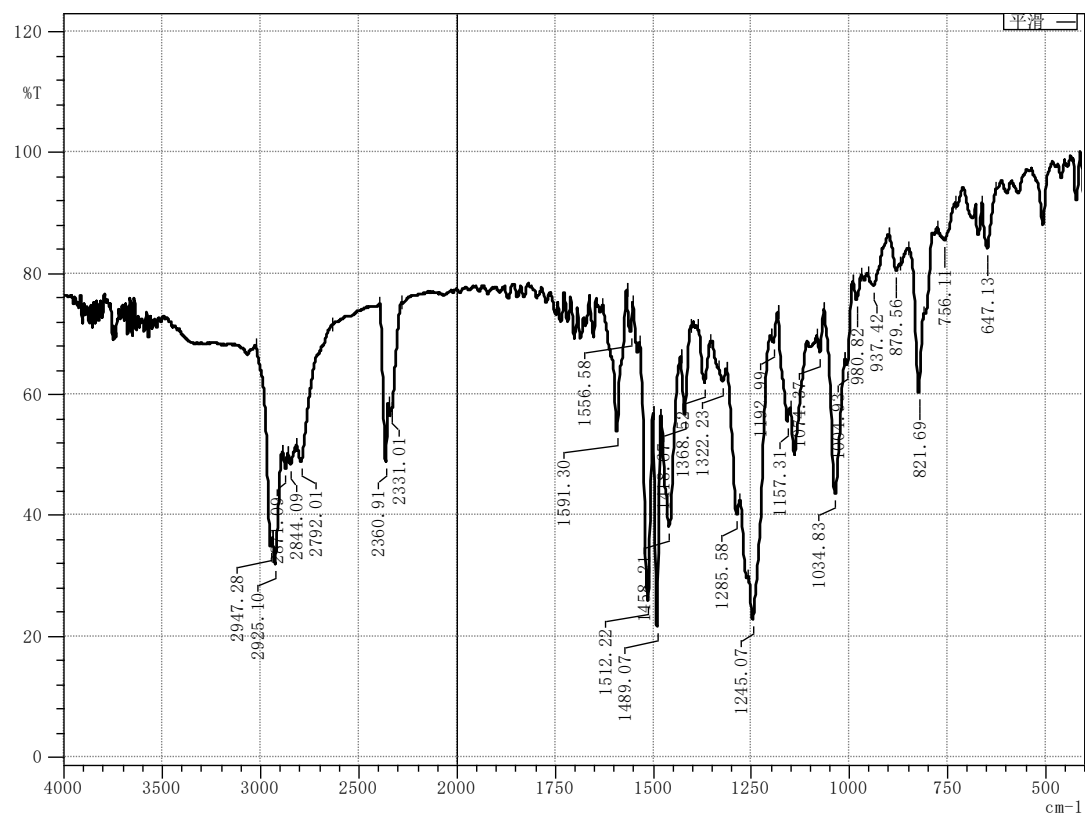
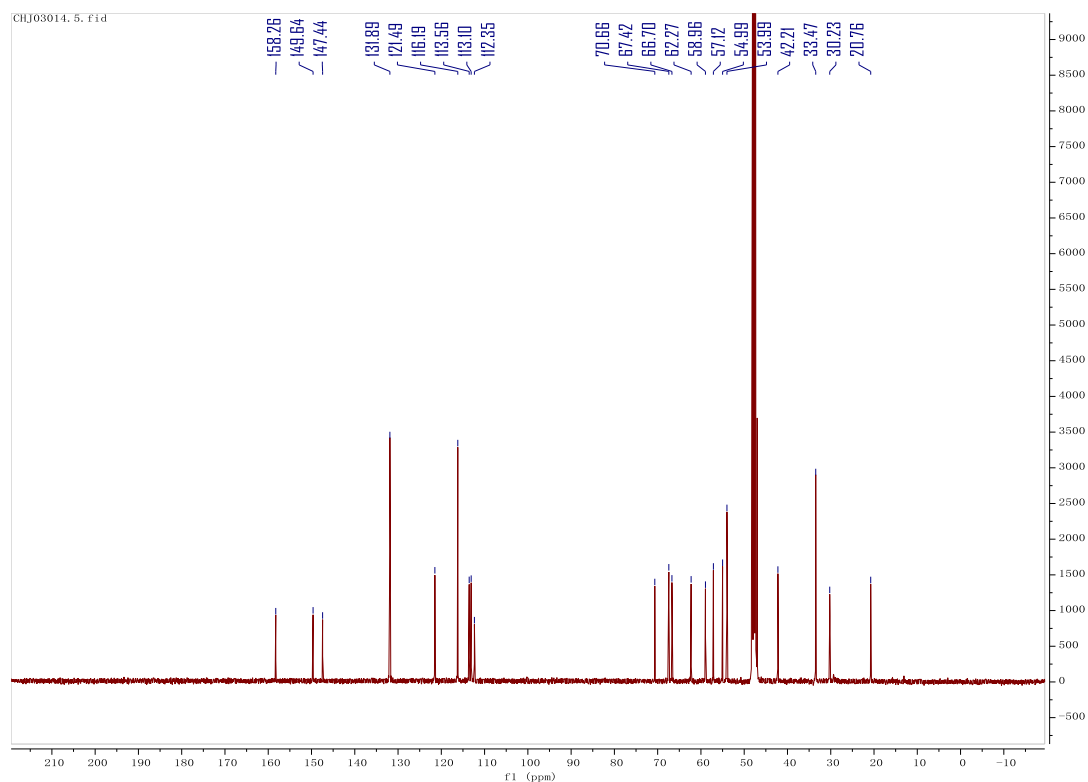




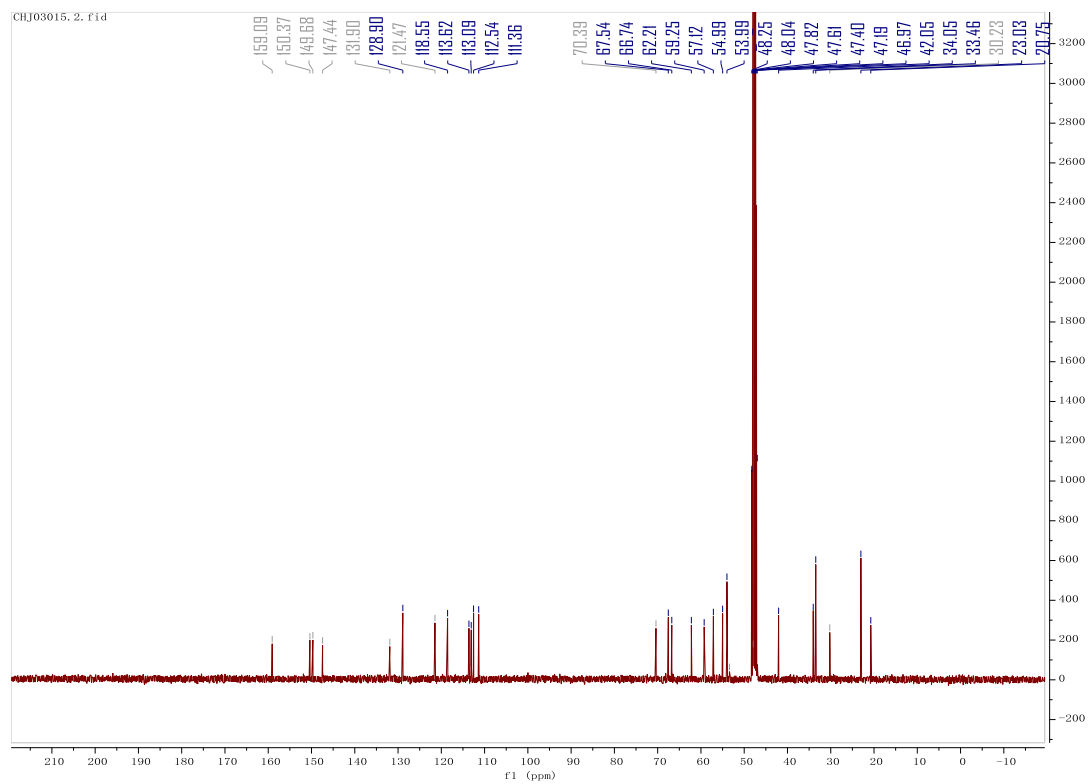
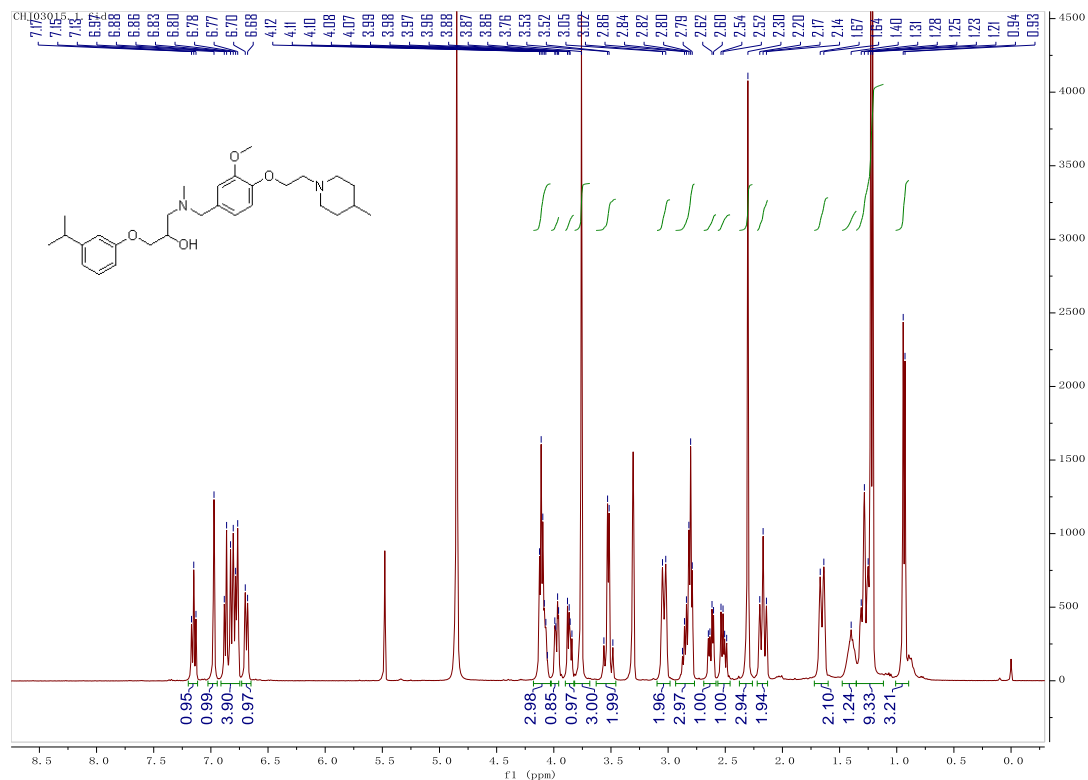
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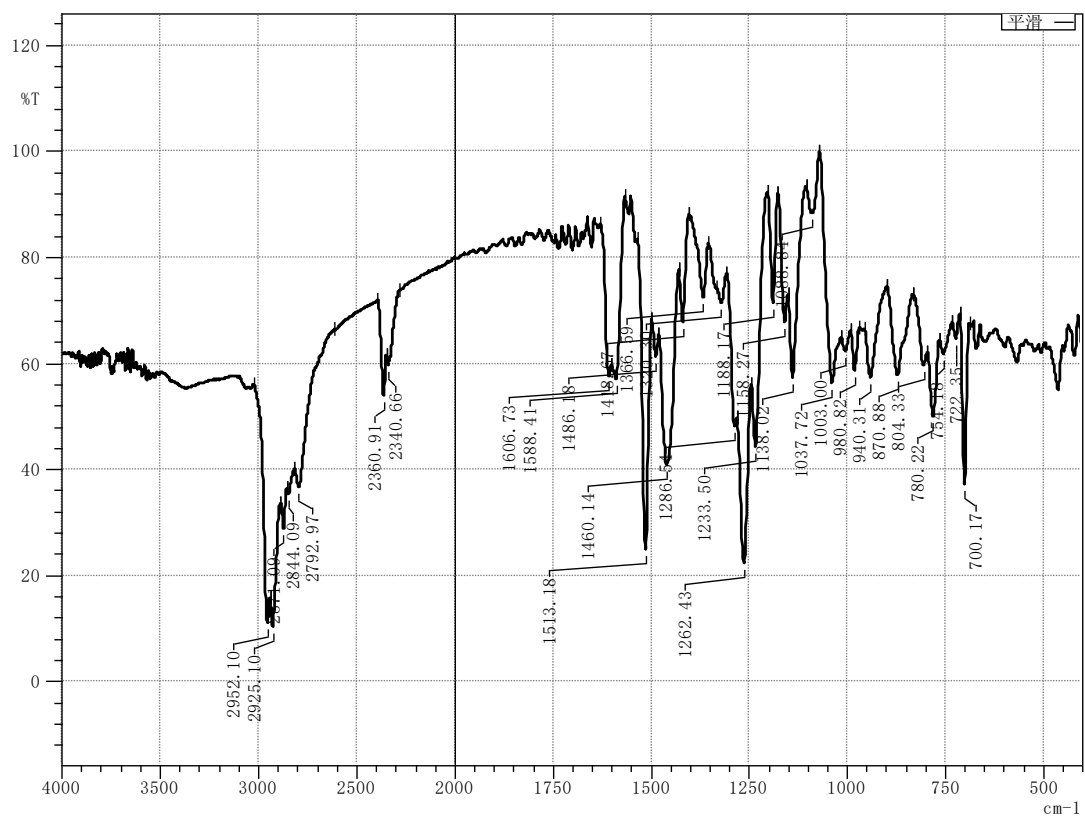




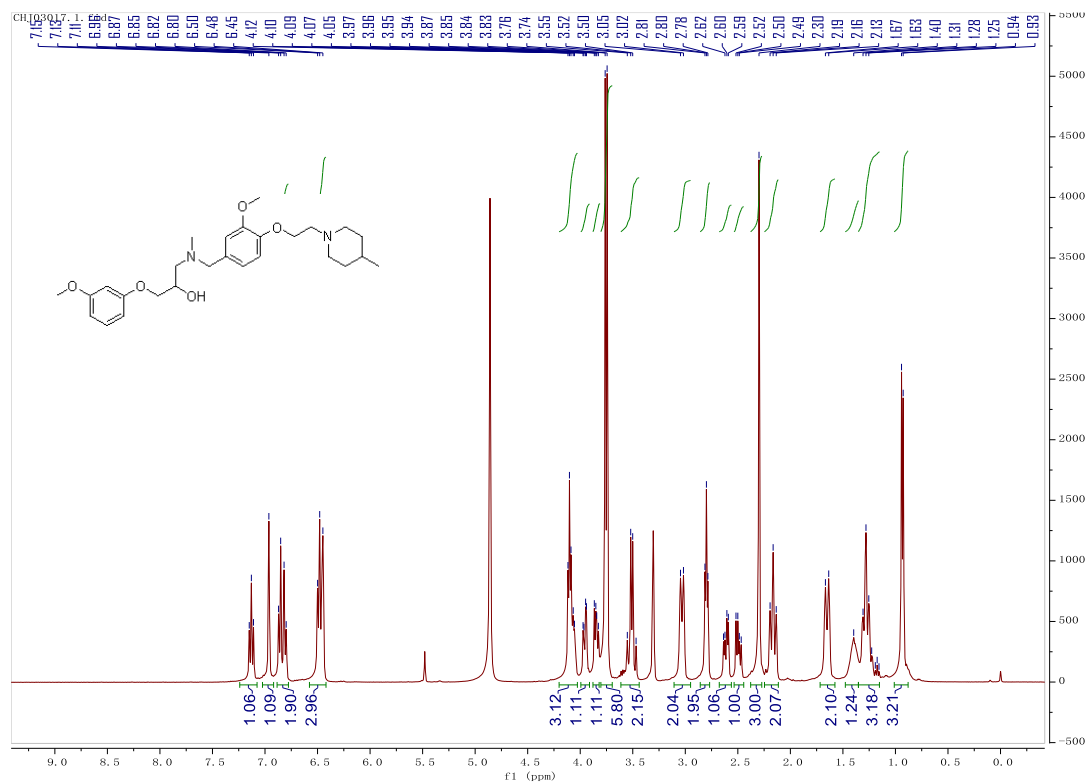


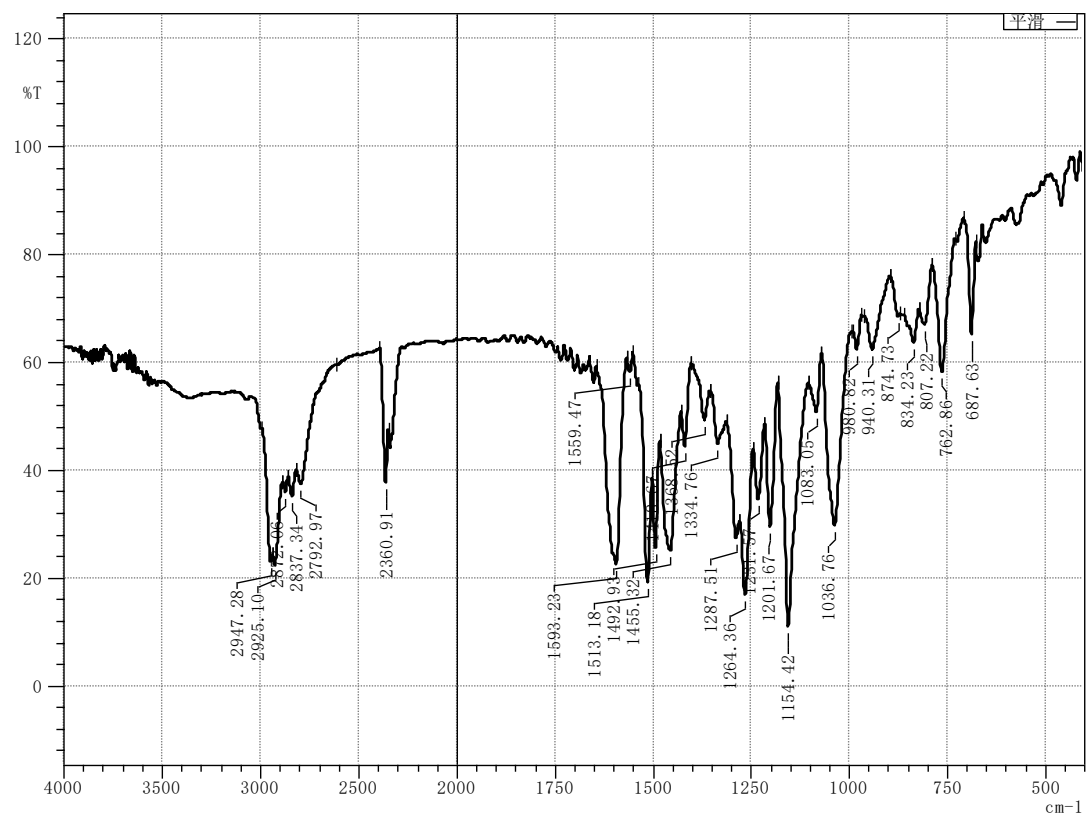
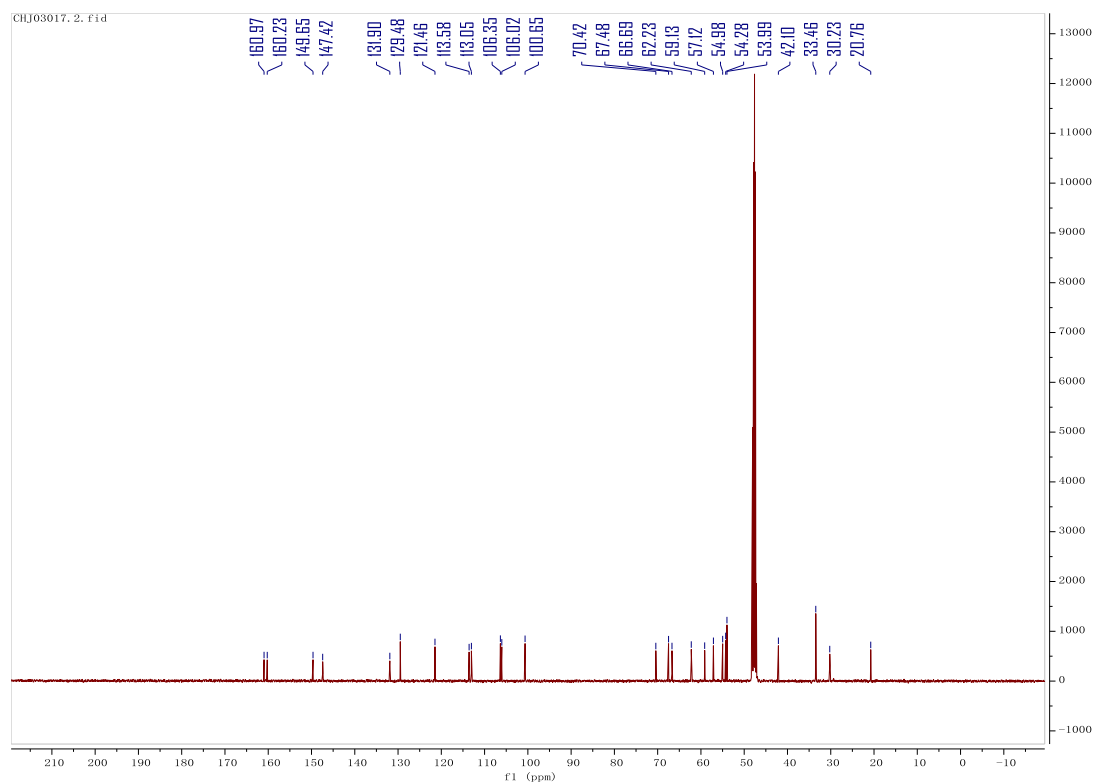
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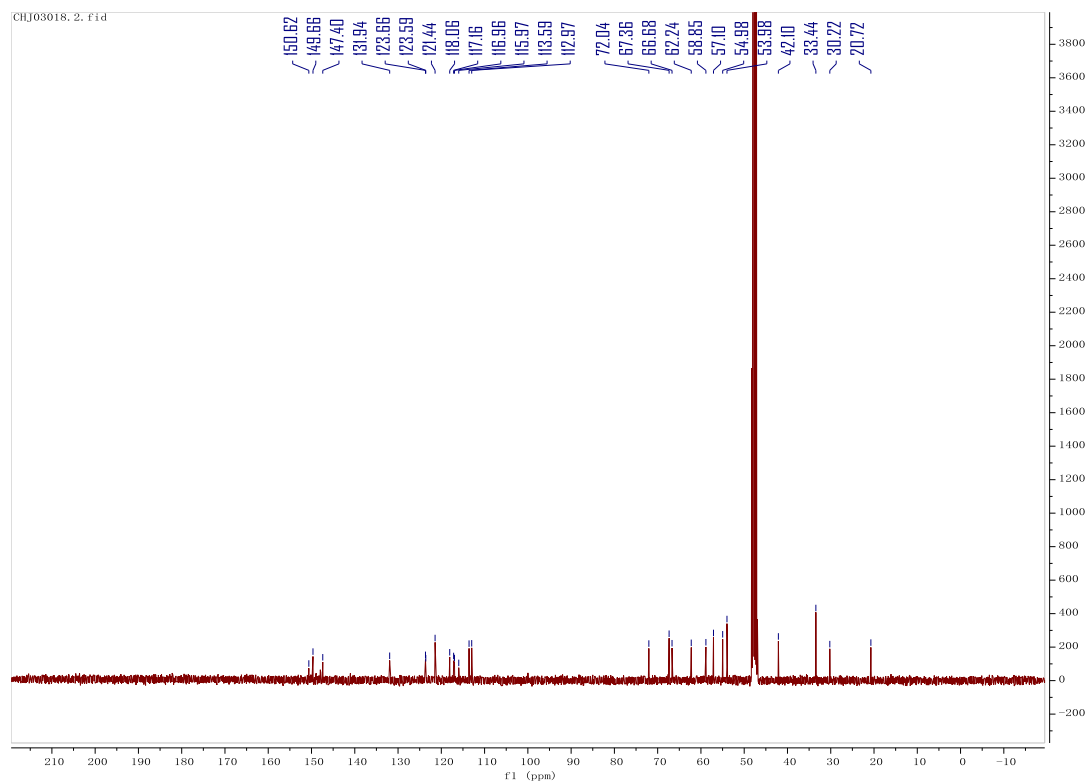
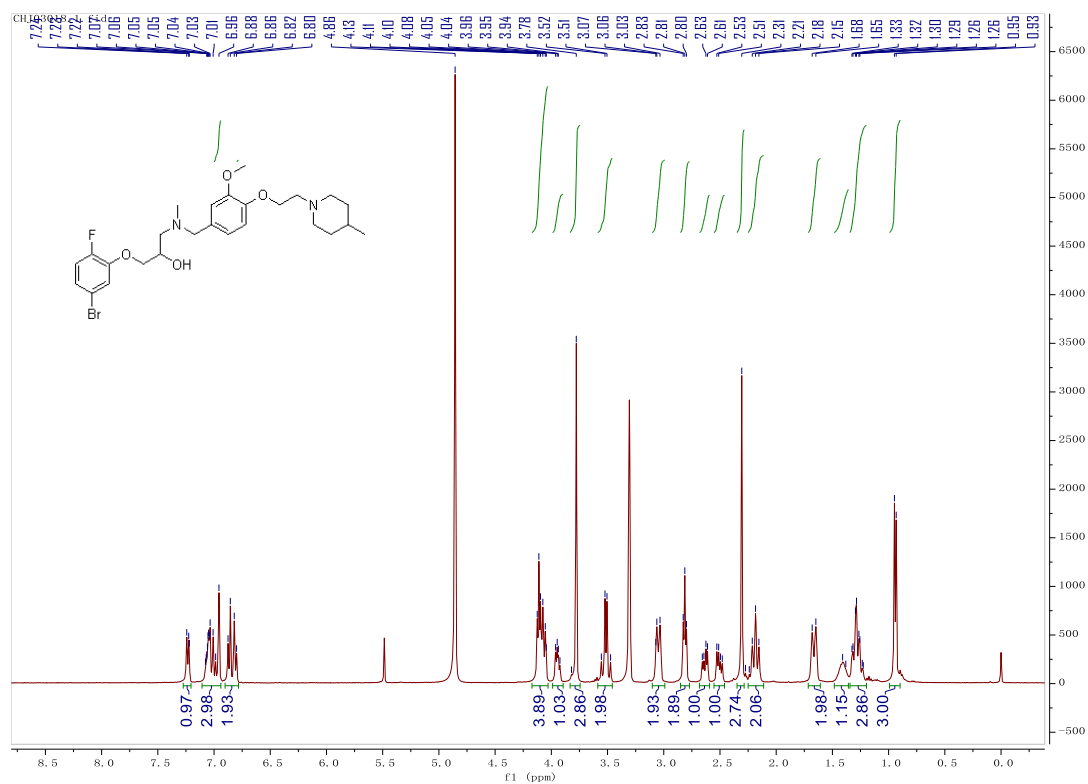


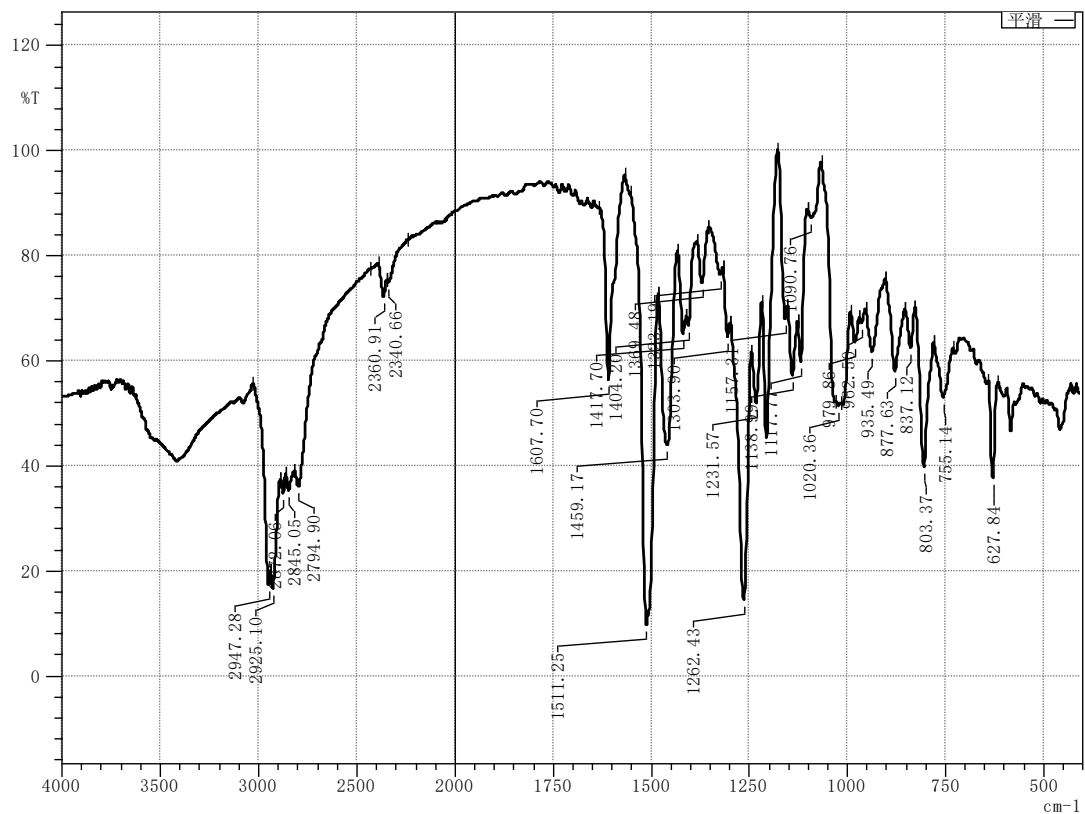
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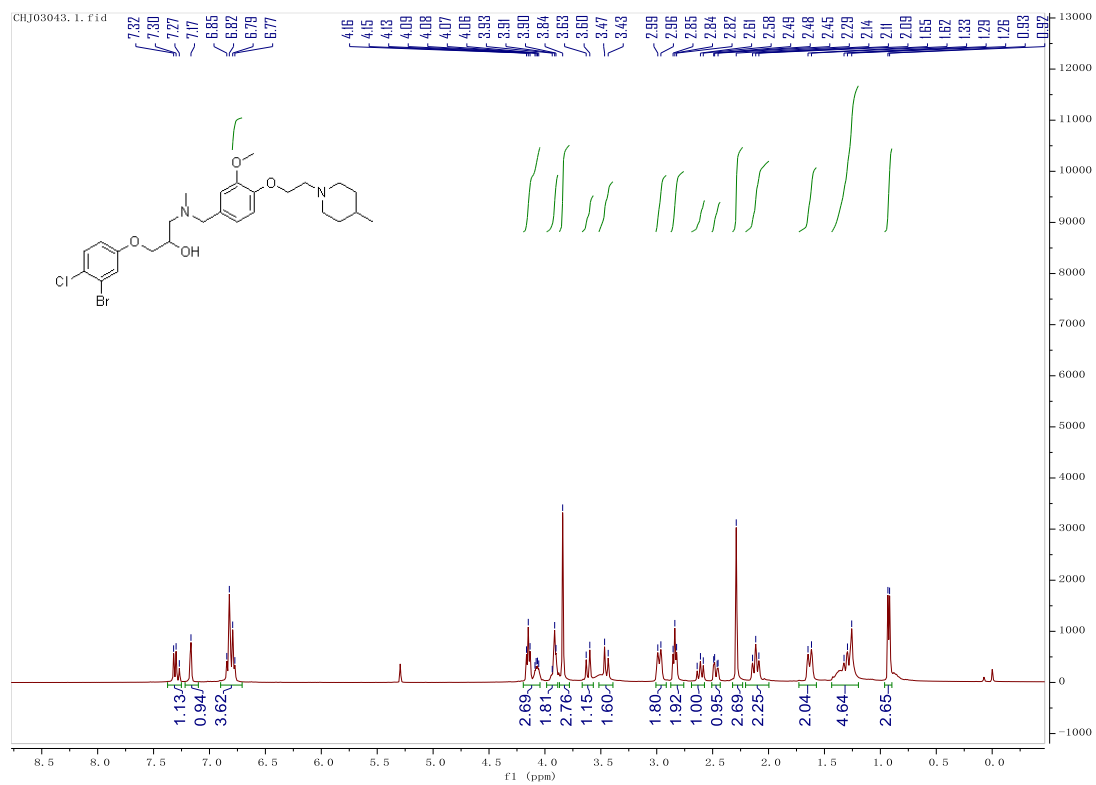


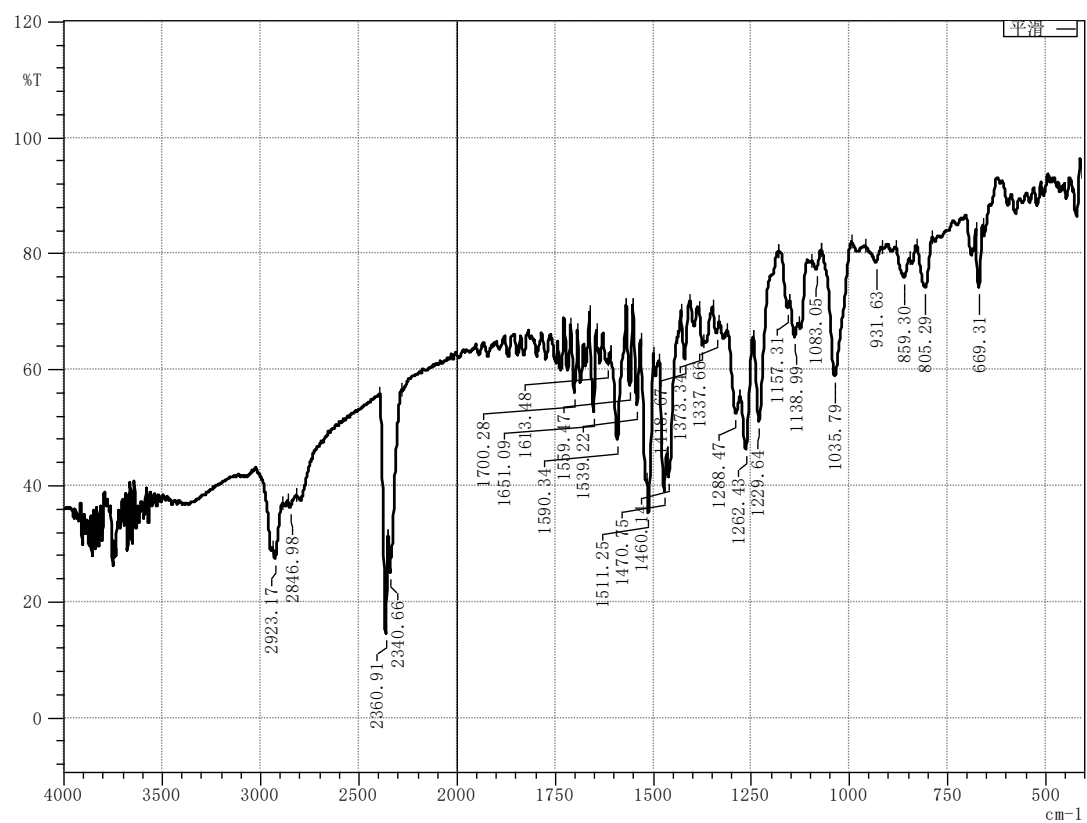
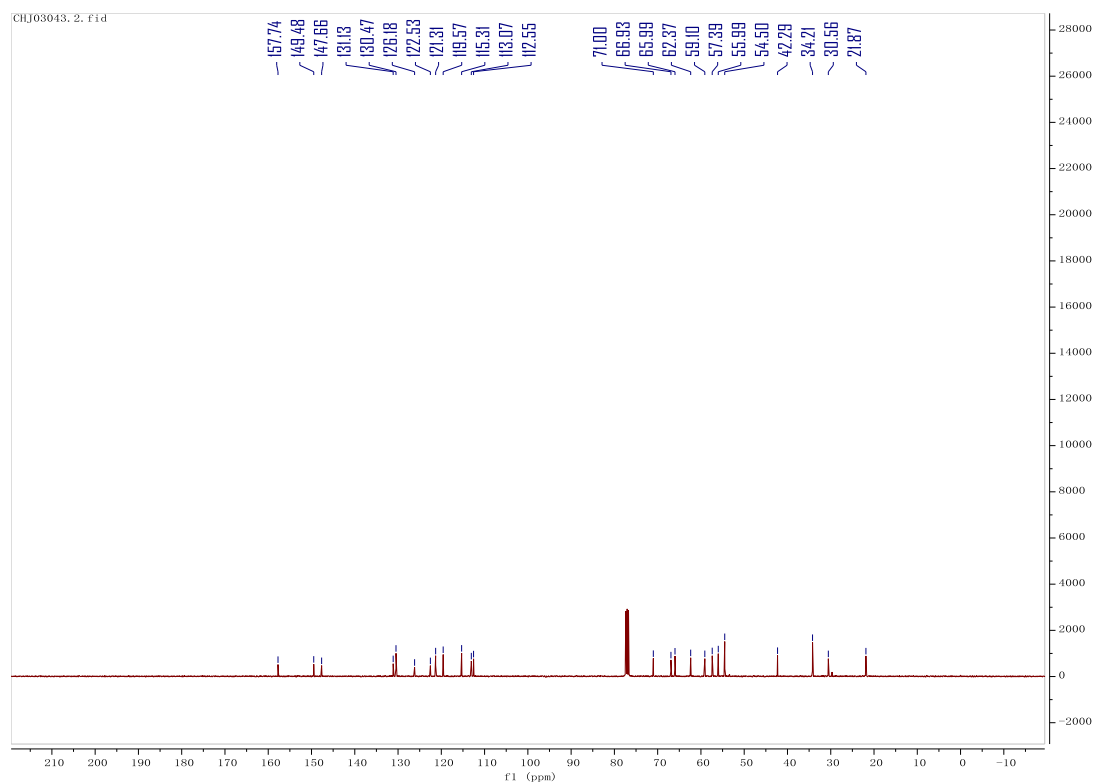
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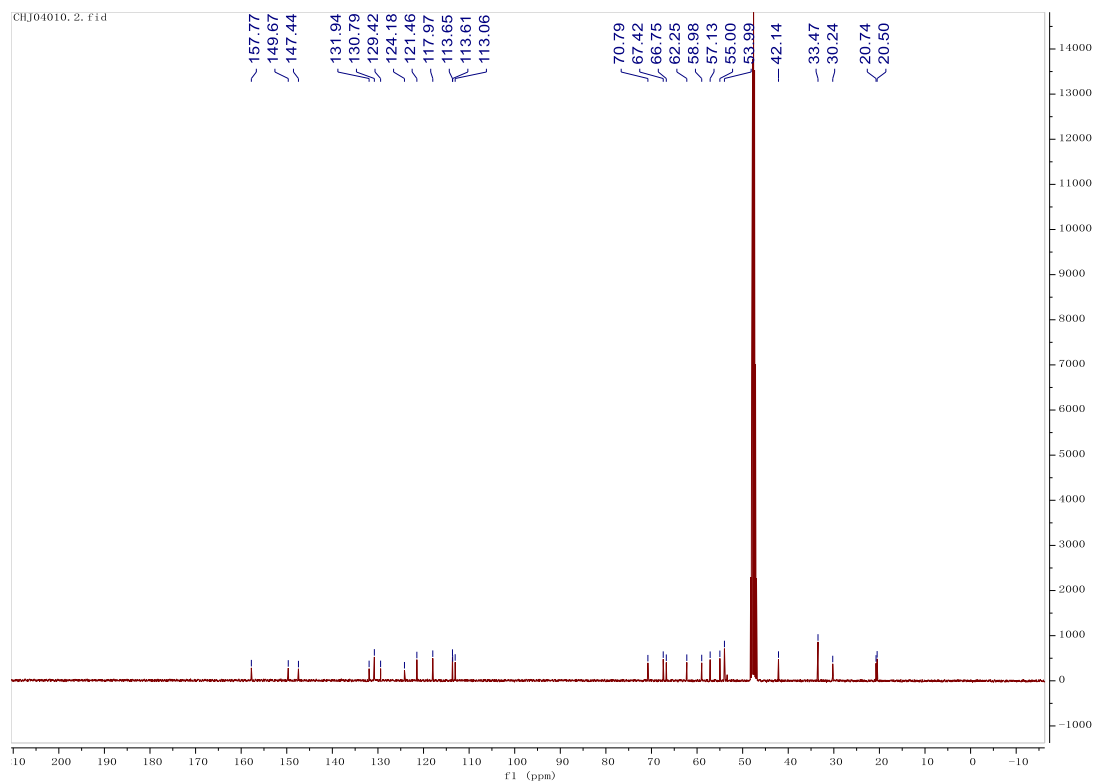
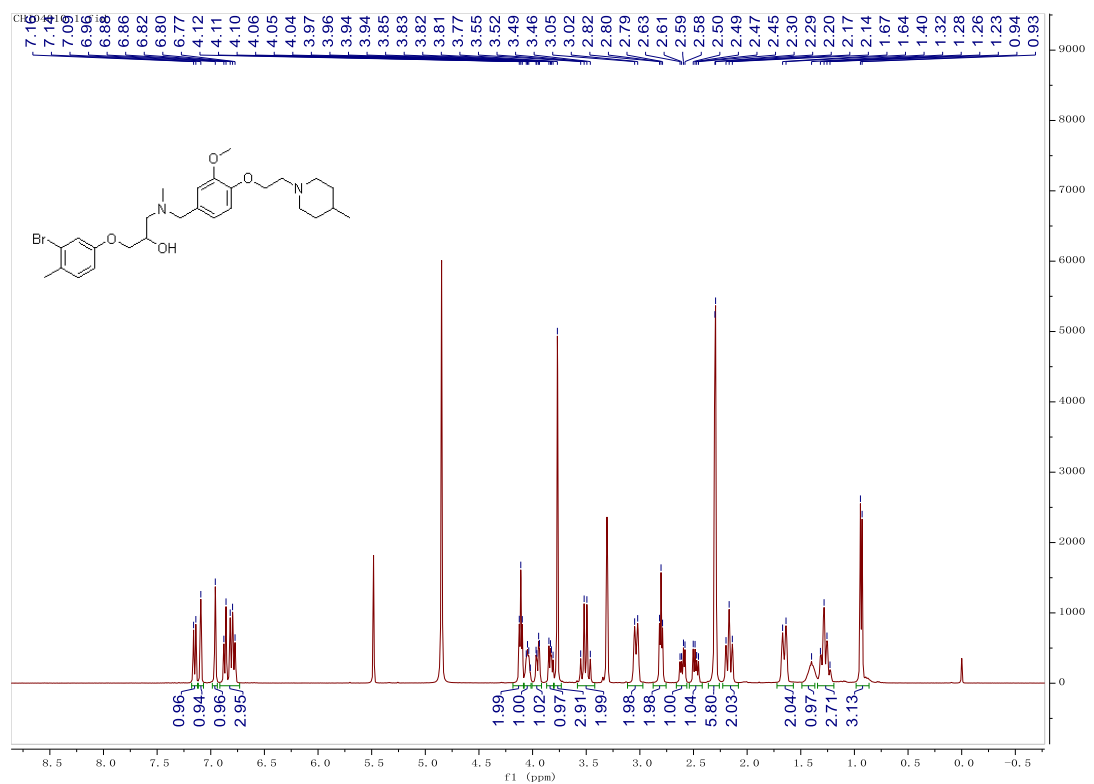


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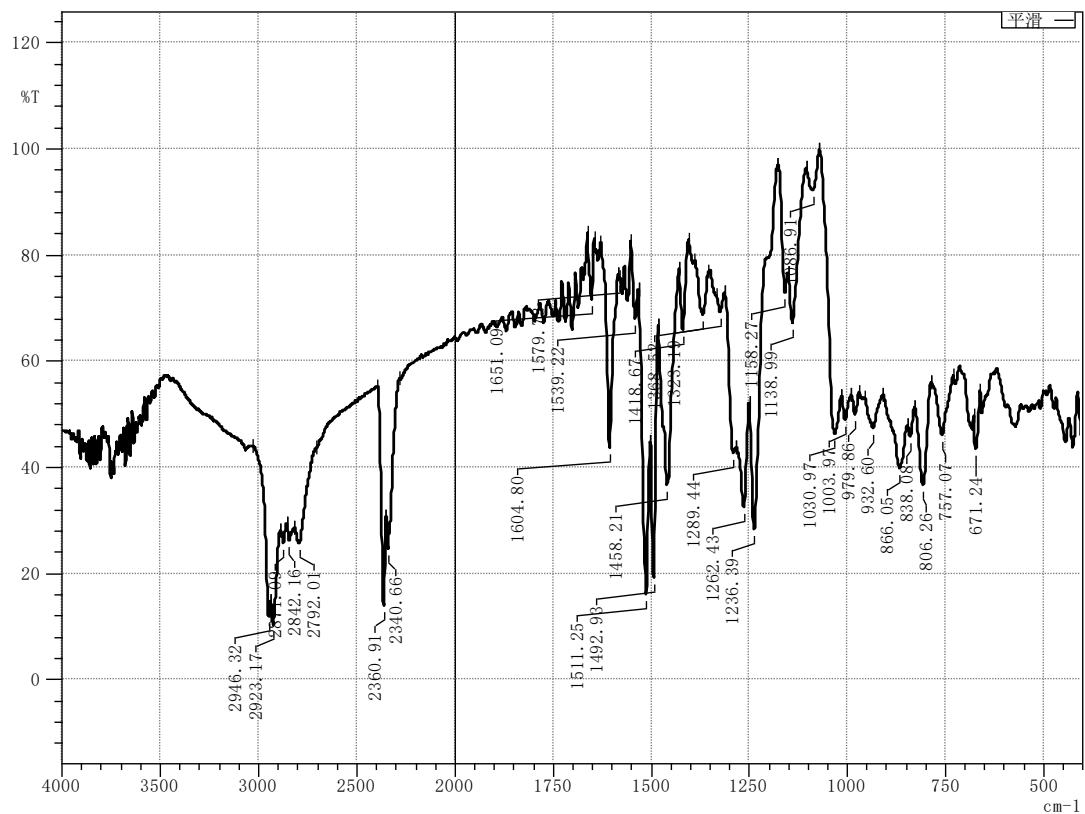




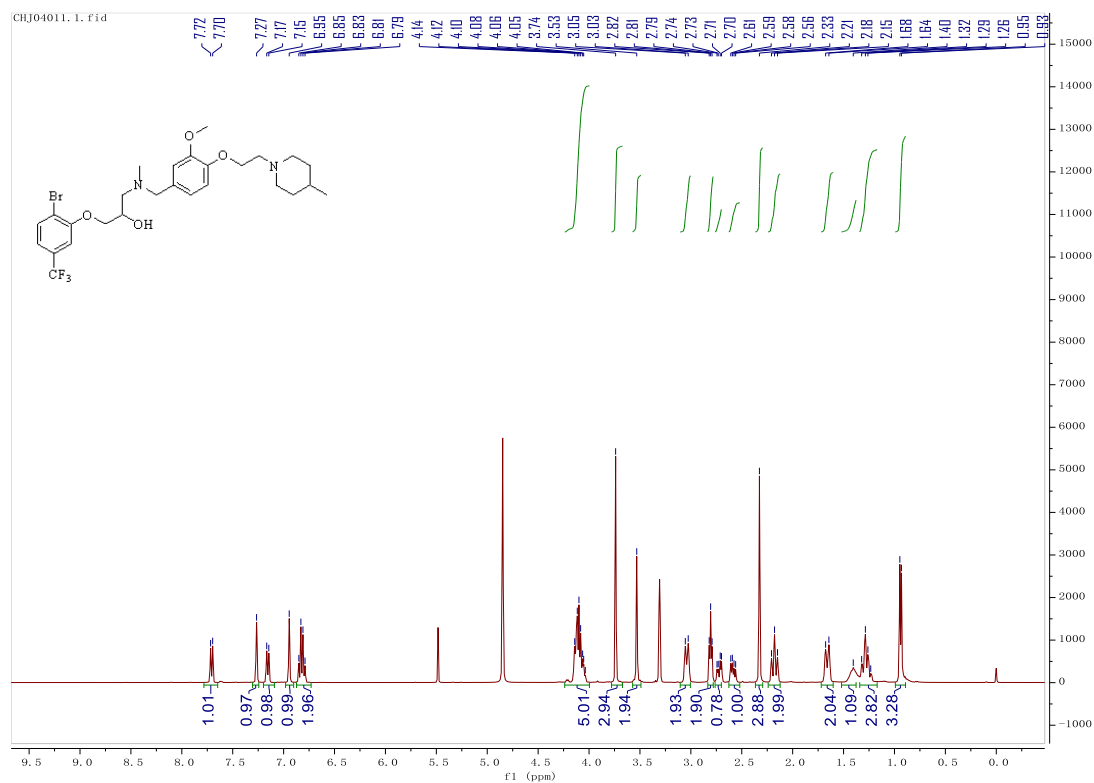
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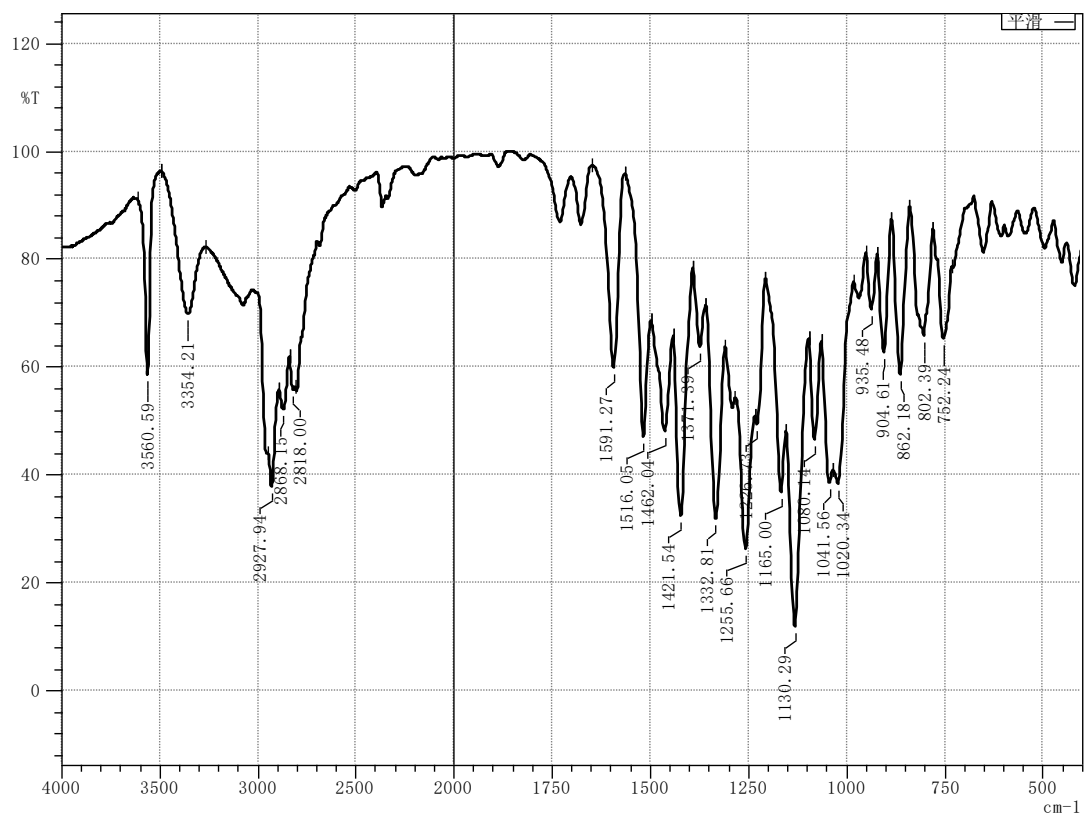
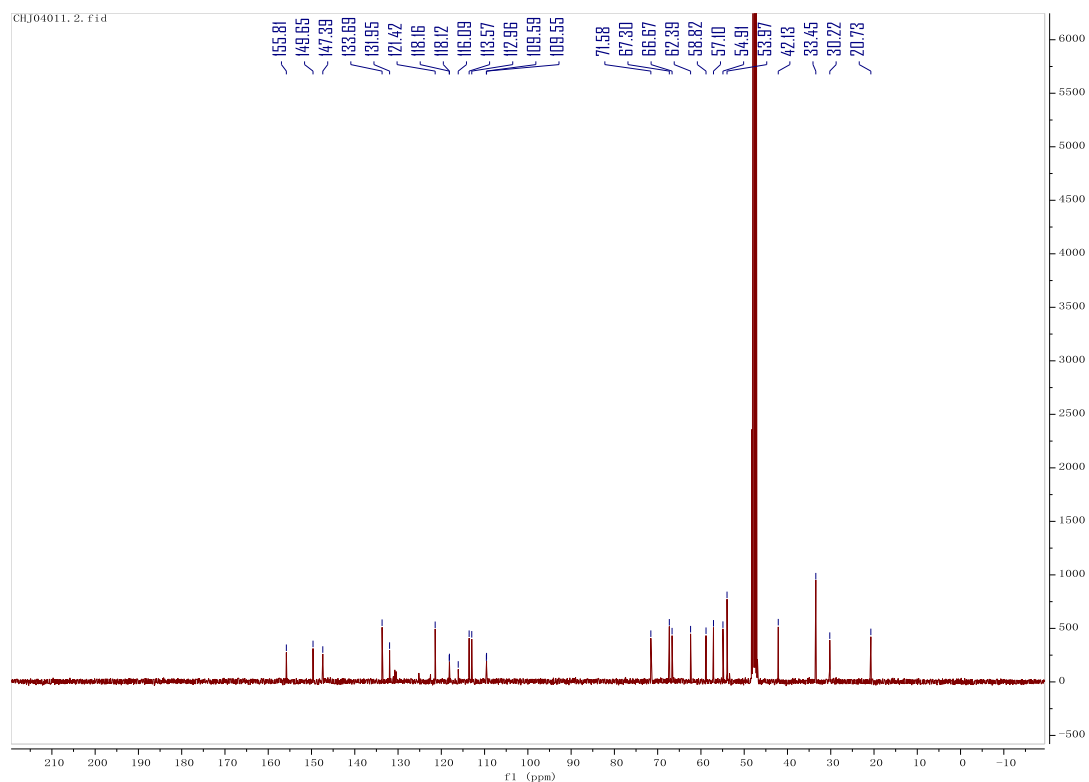




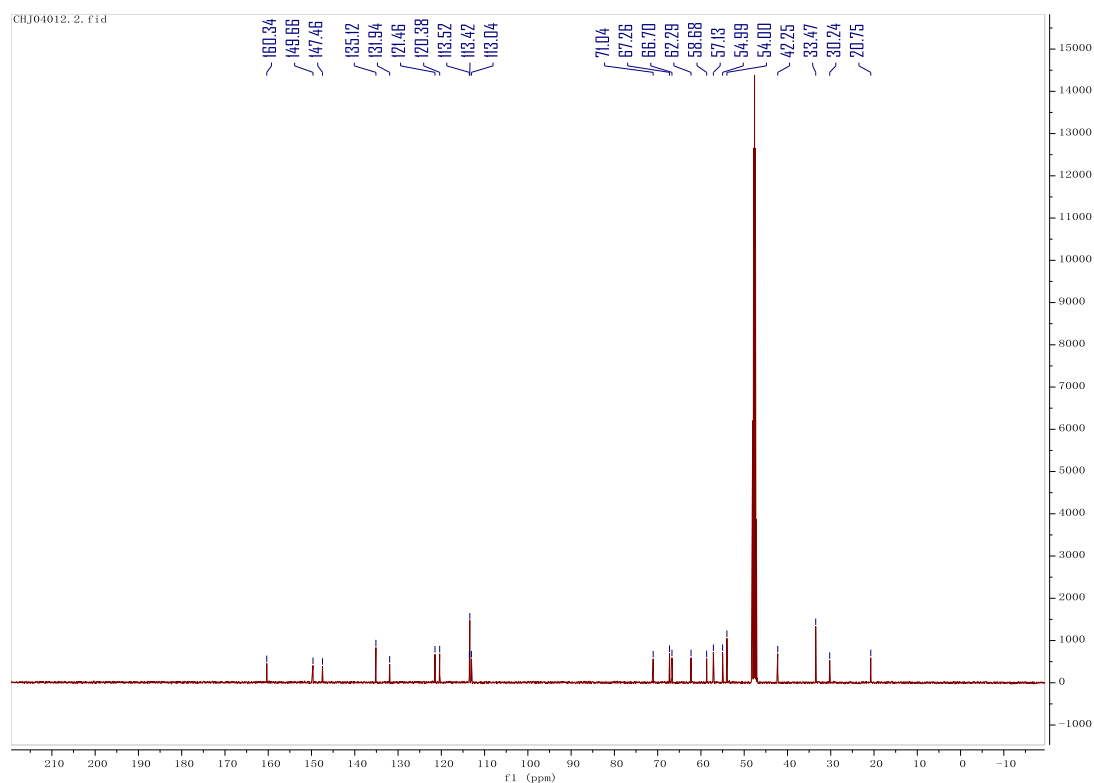
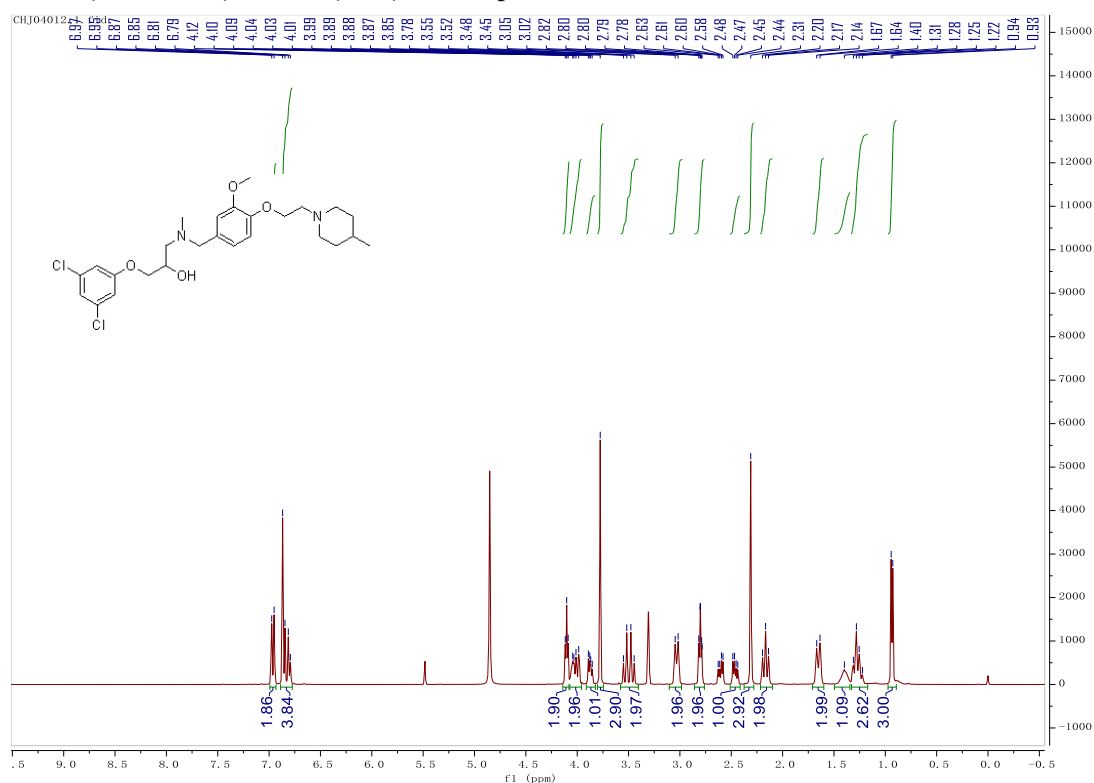


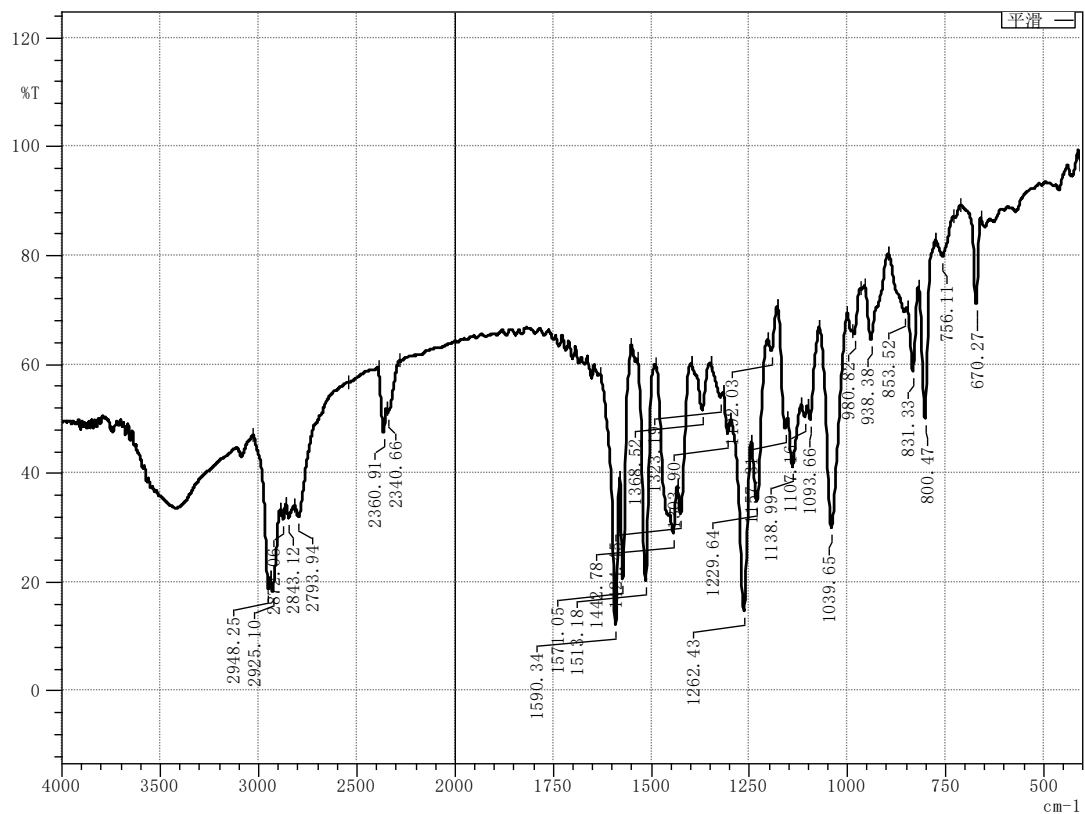
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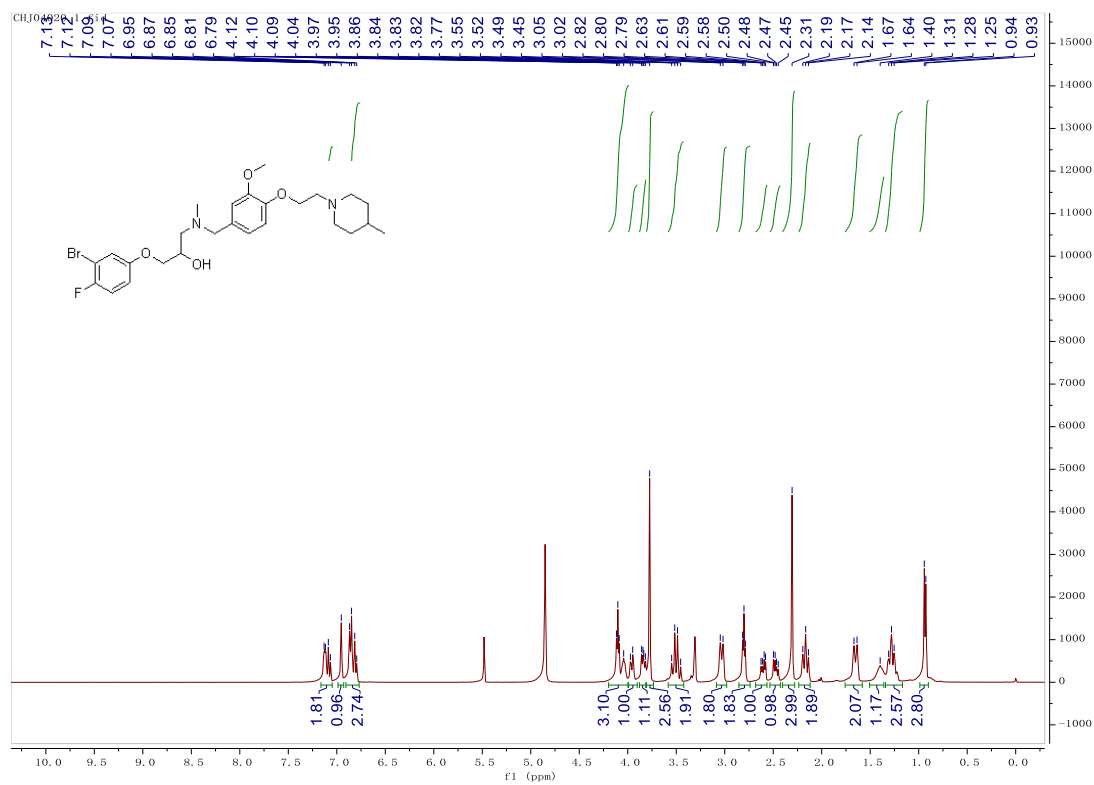


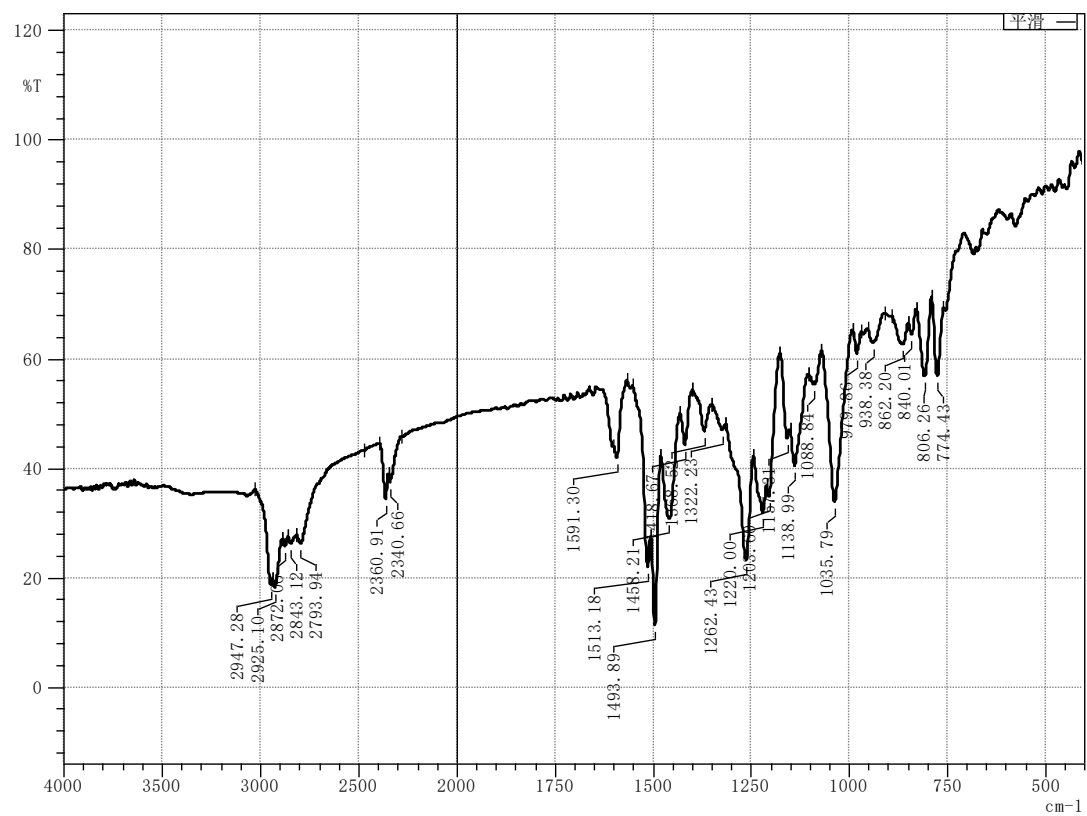
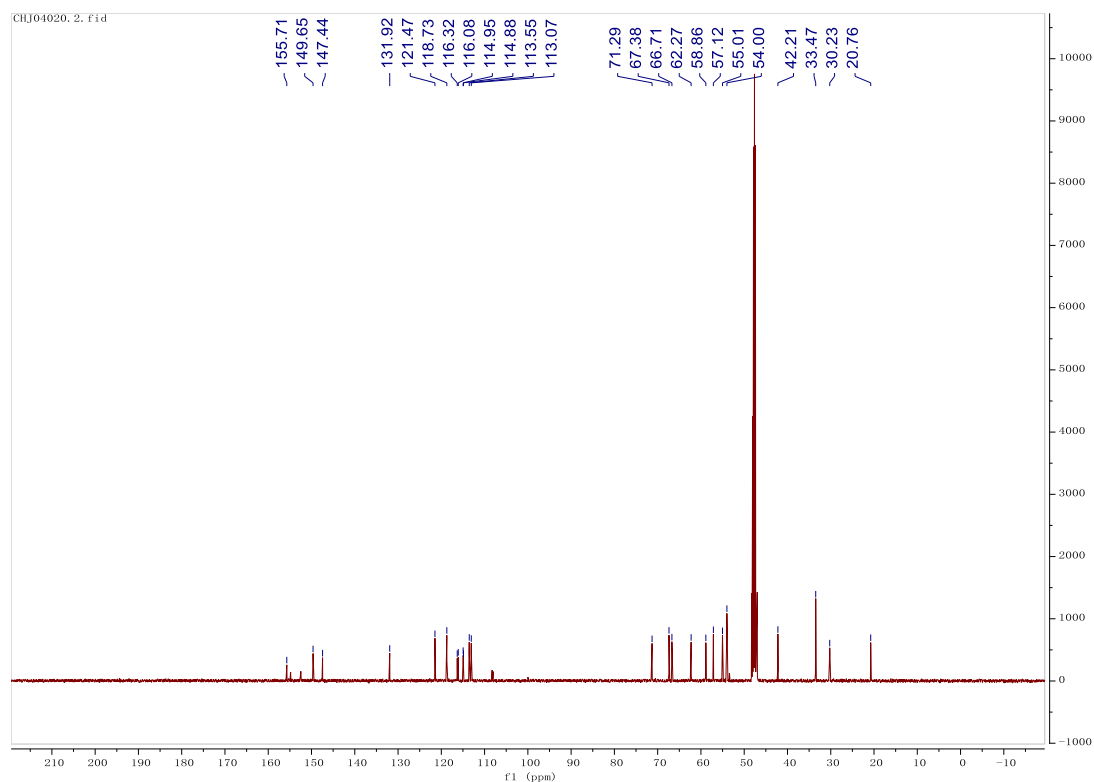
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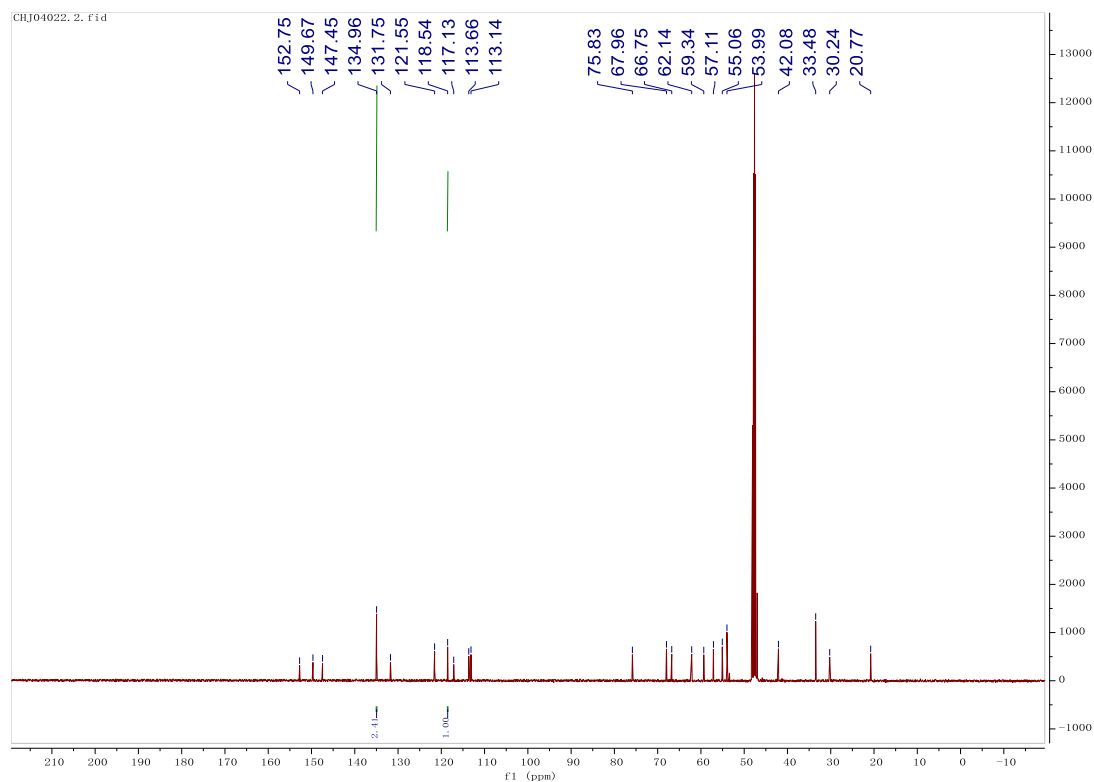
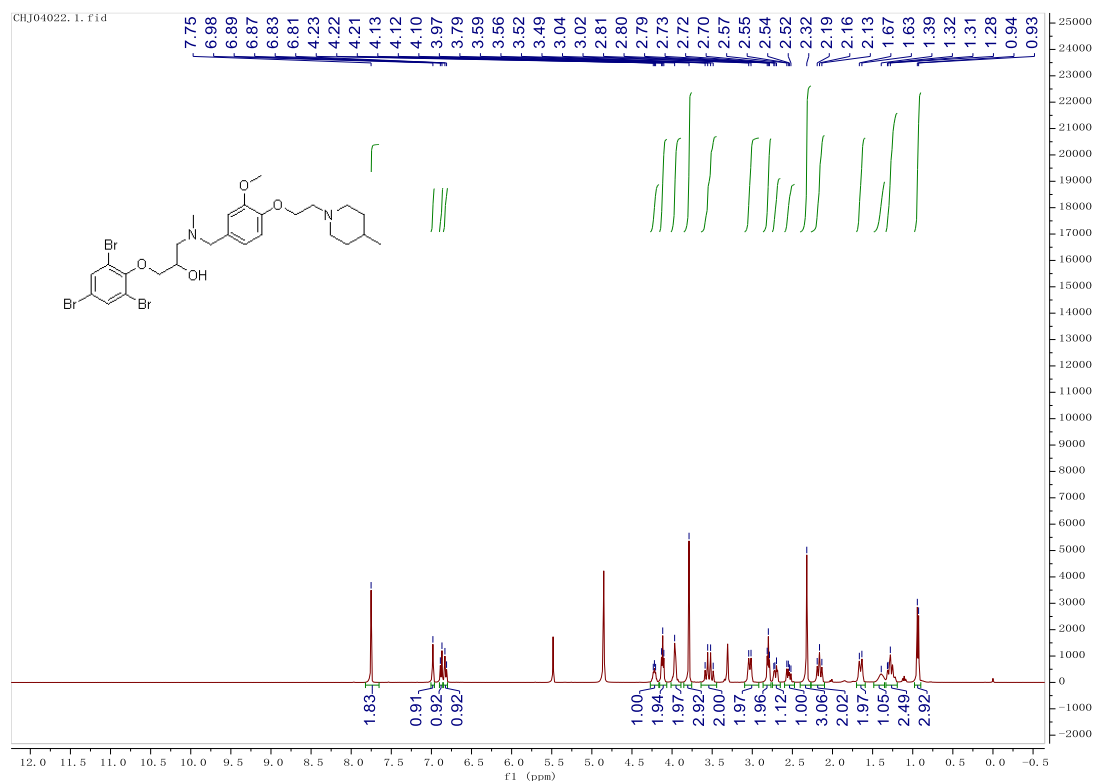


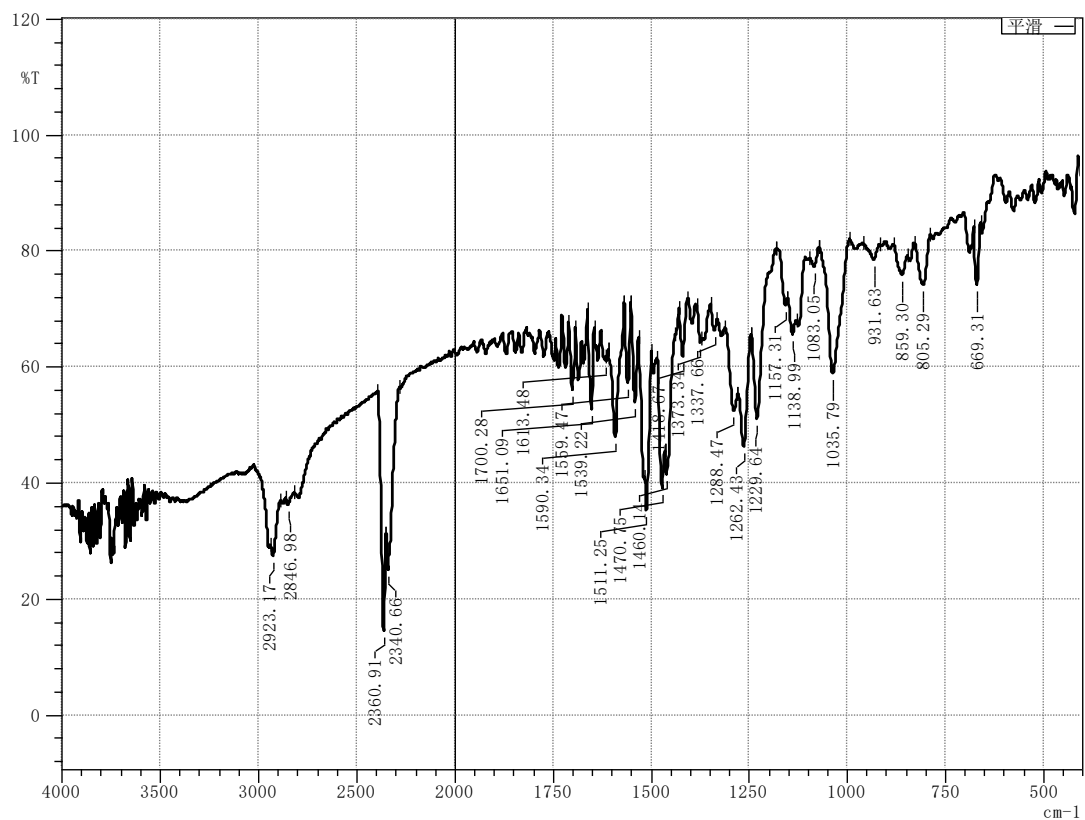
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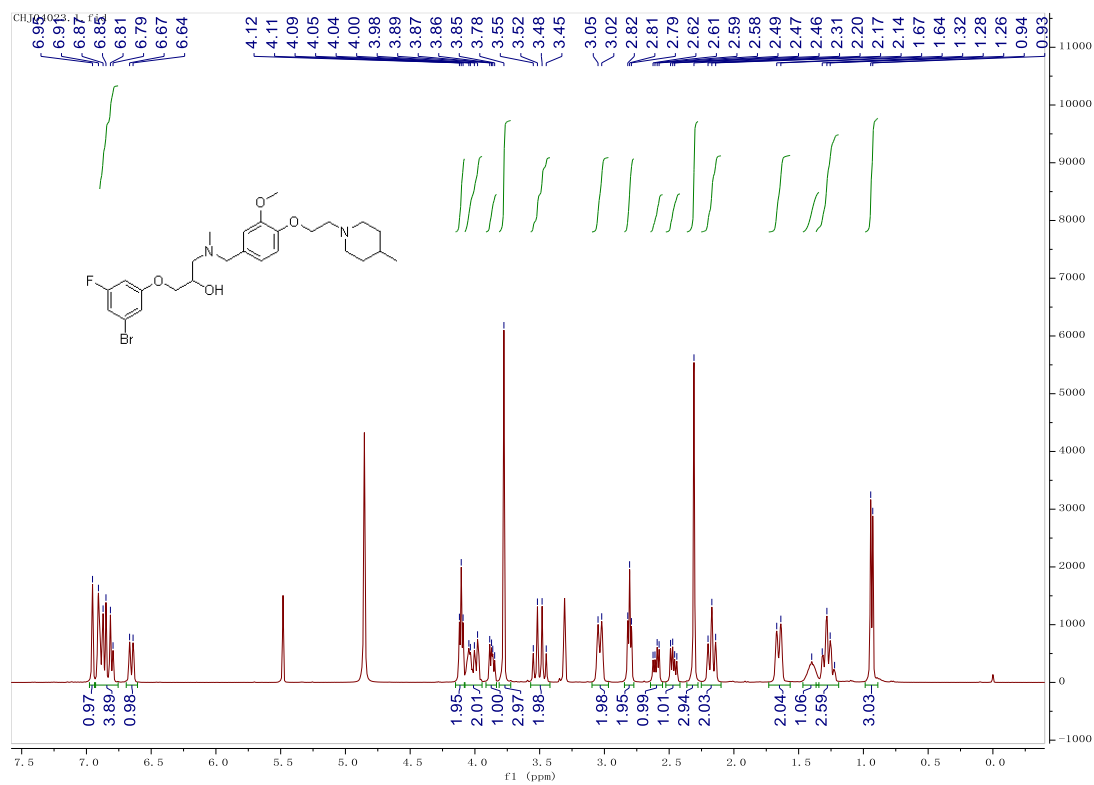


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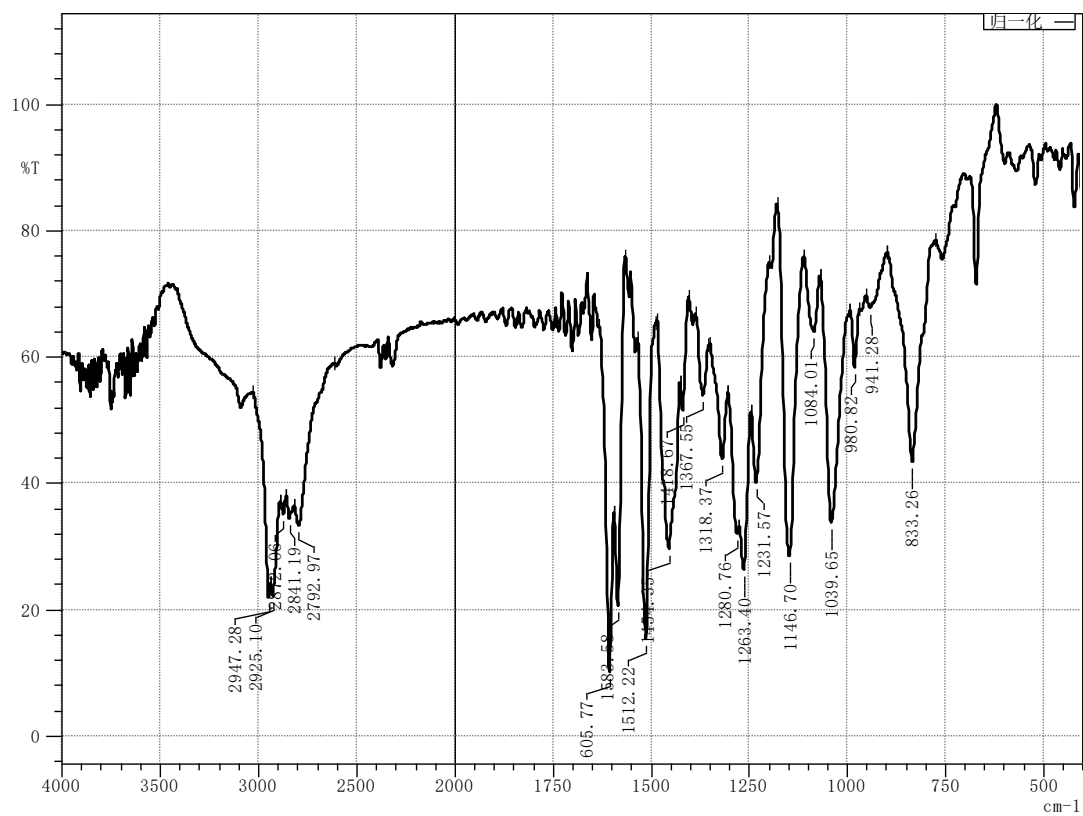
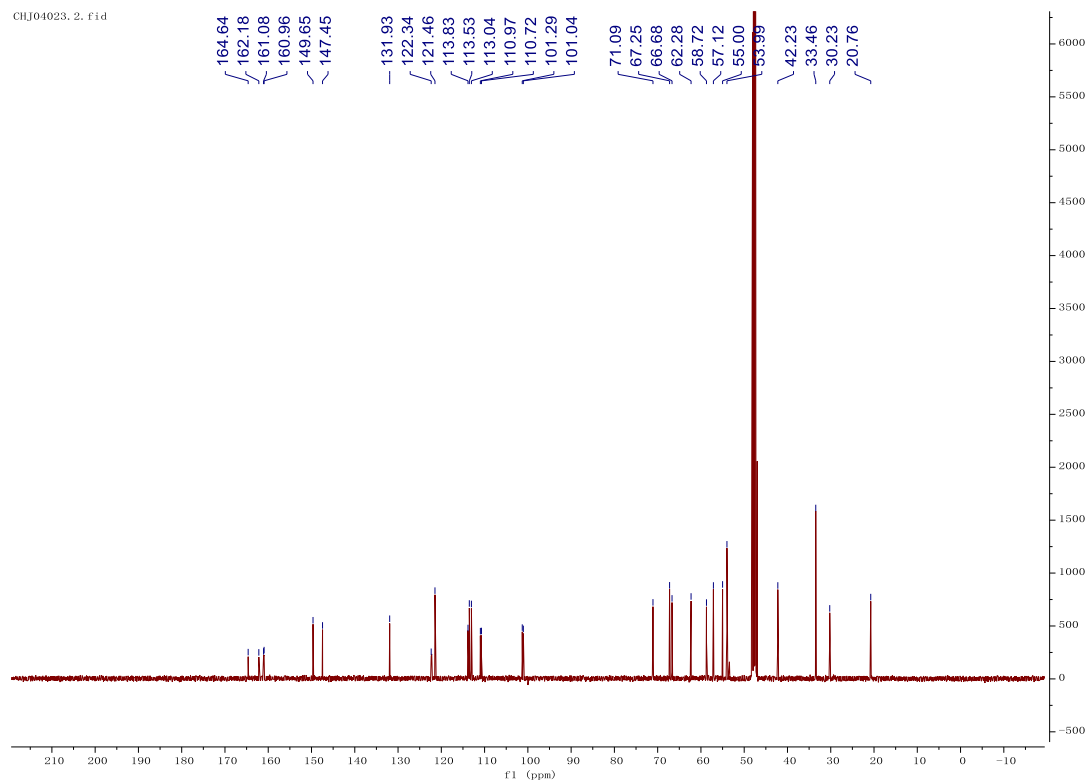




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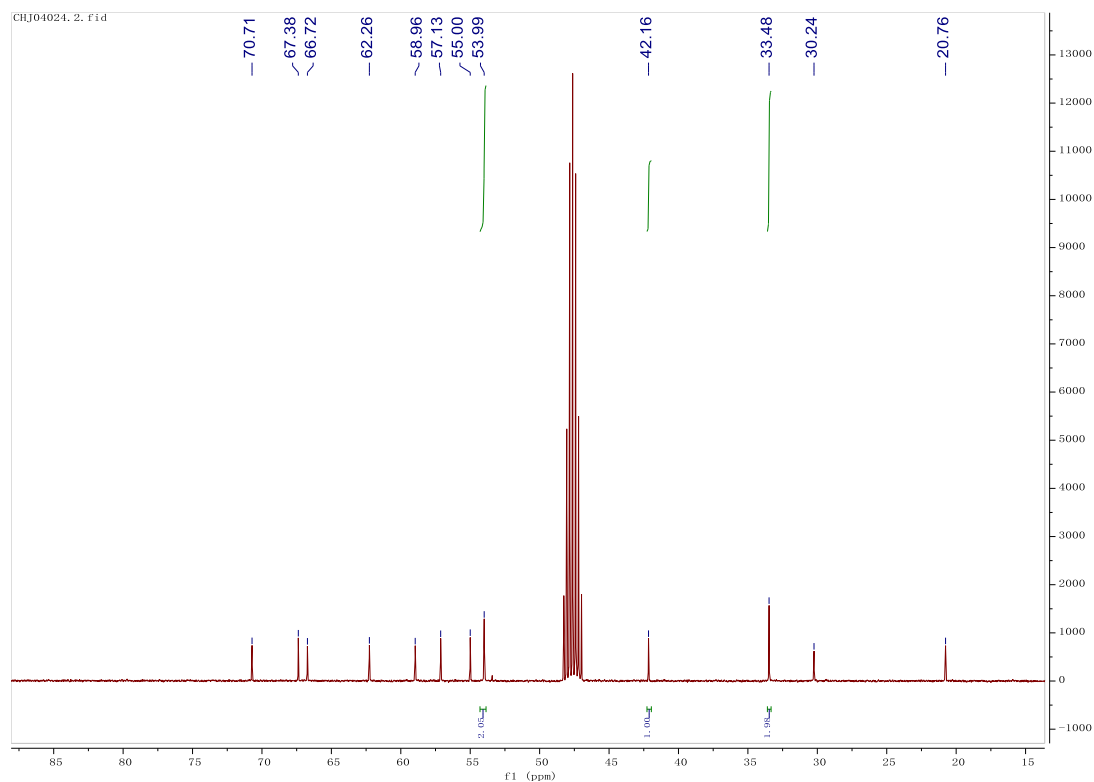
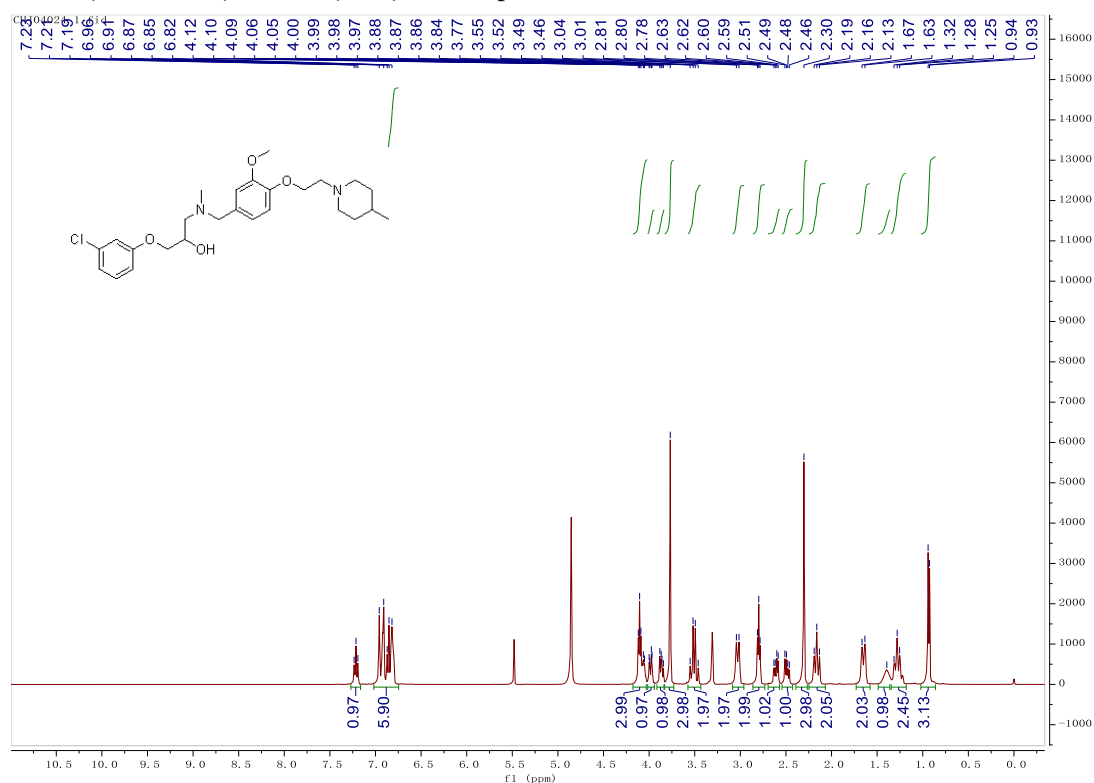


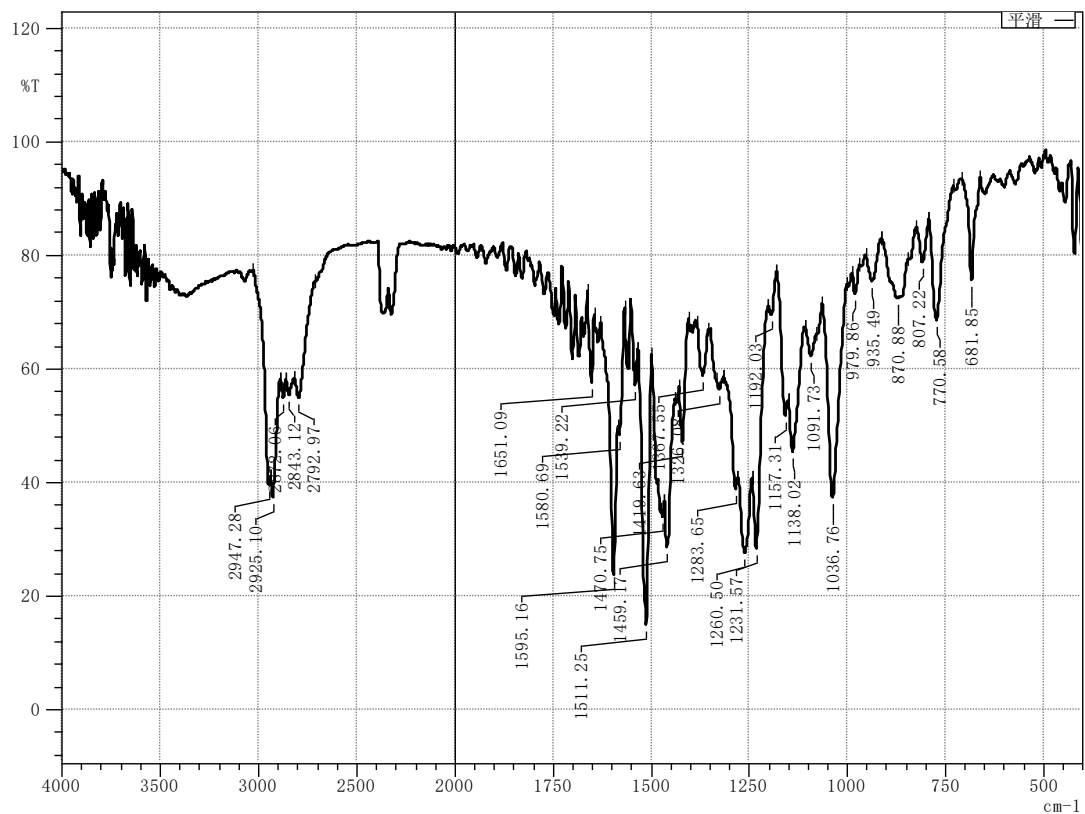
CHJ04023, 2, fid



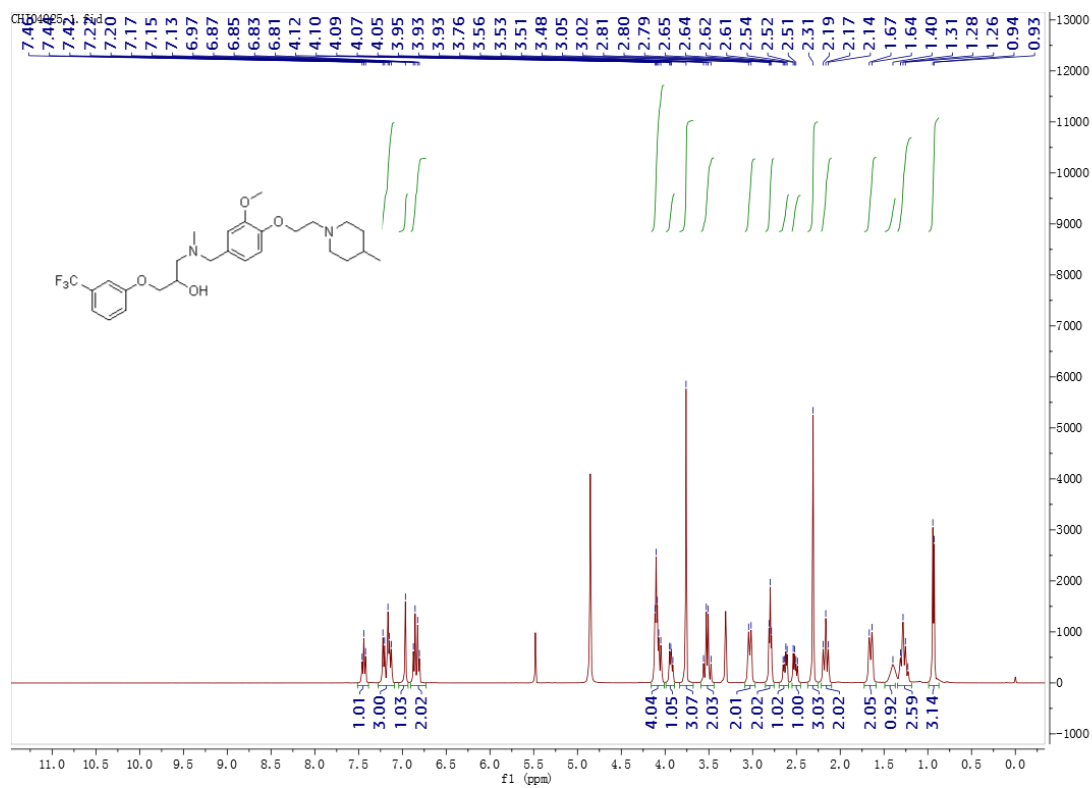


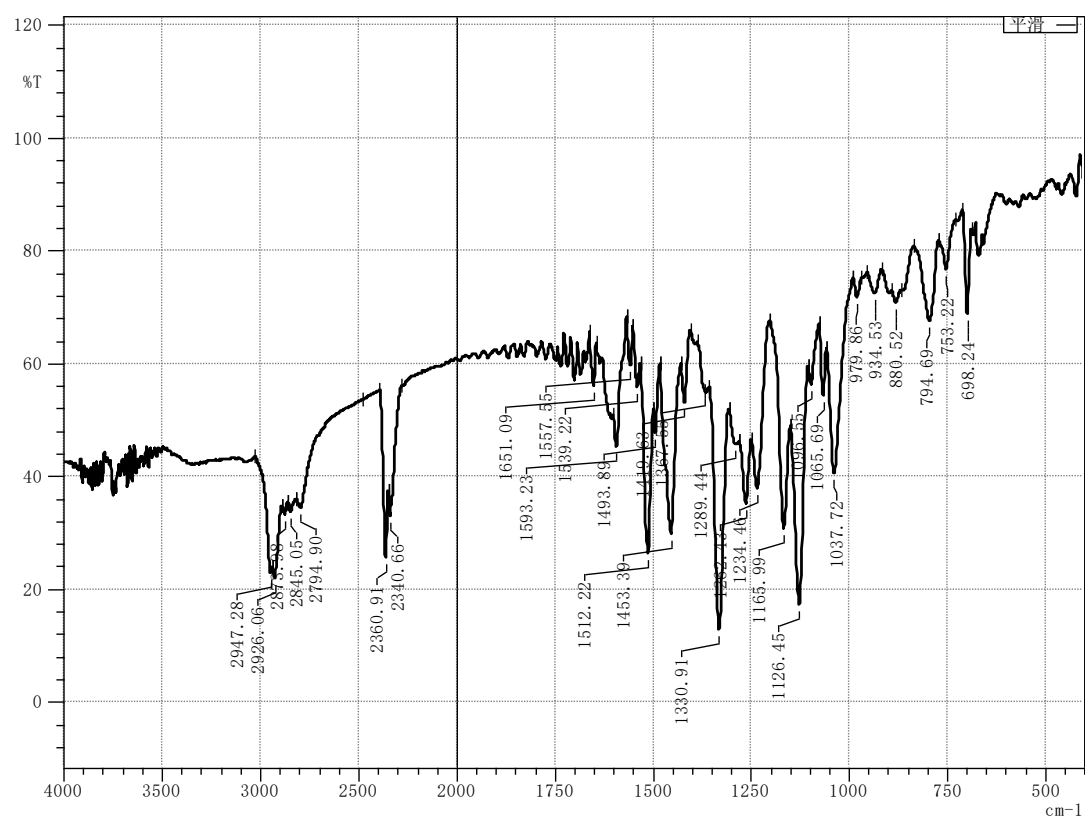
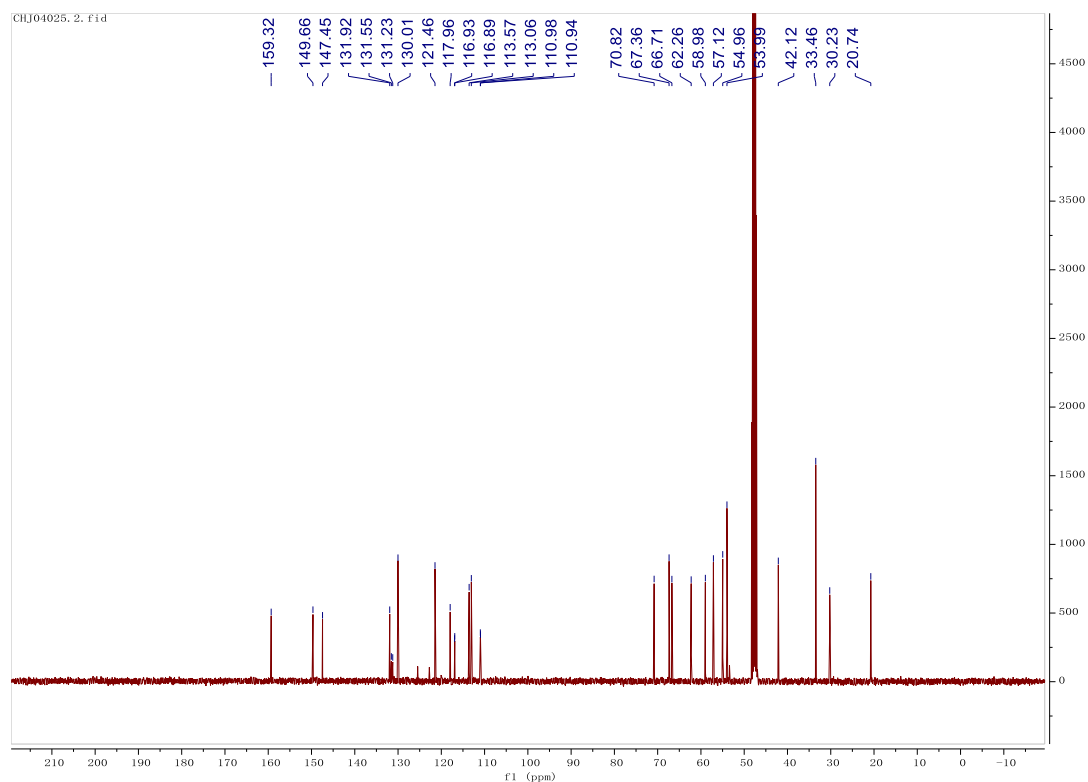
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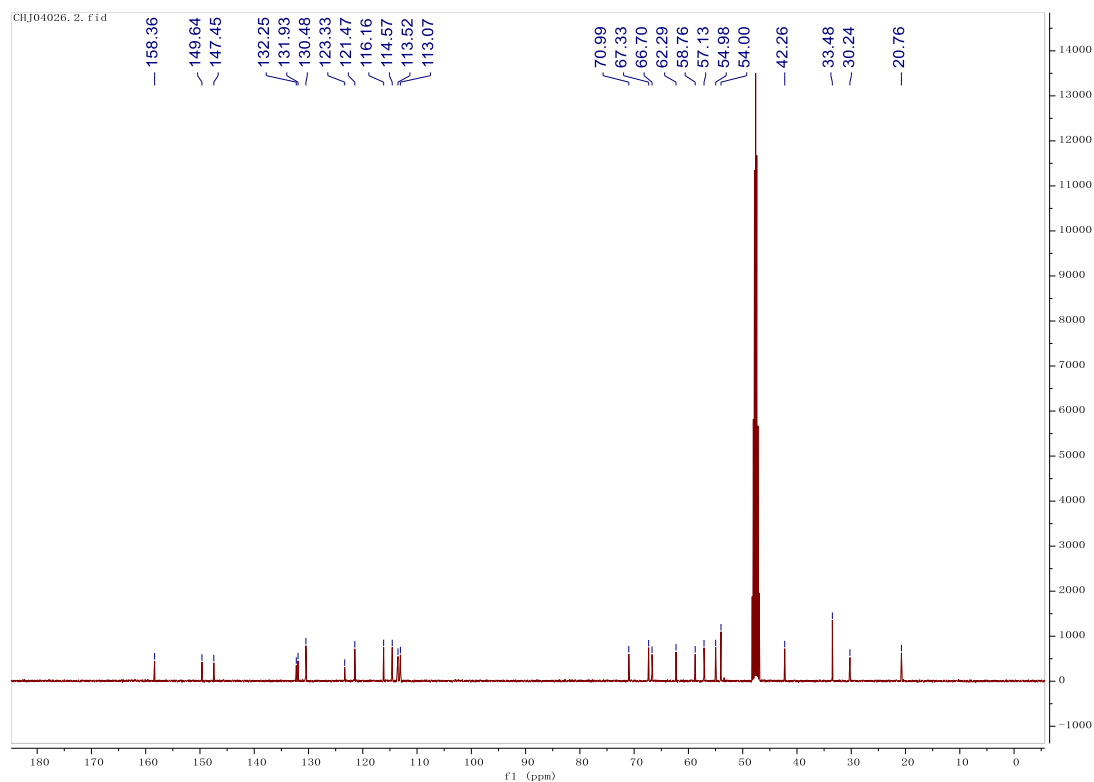
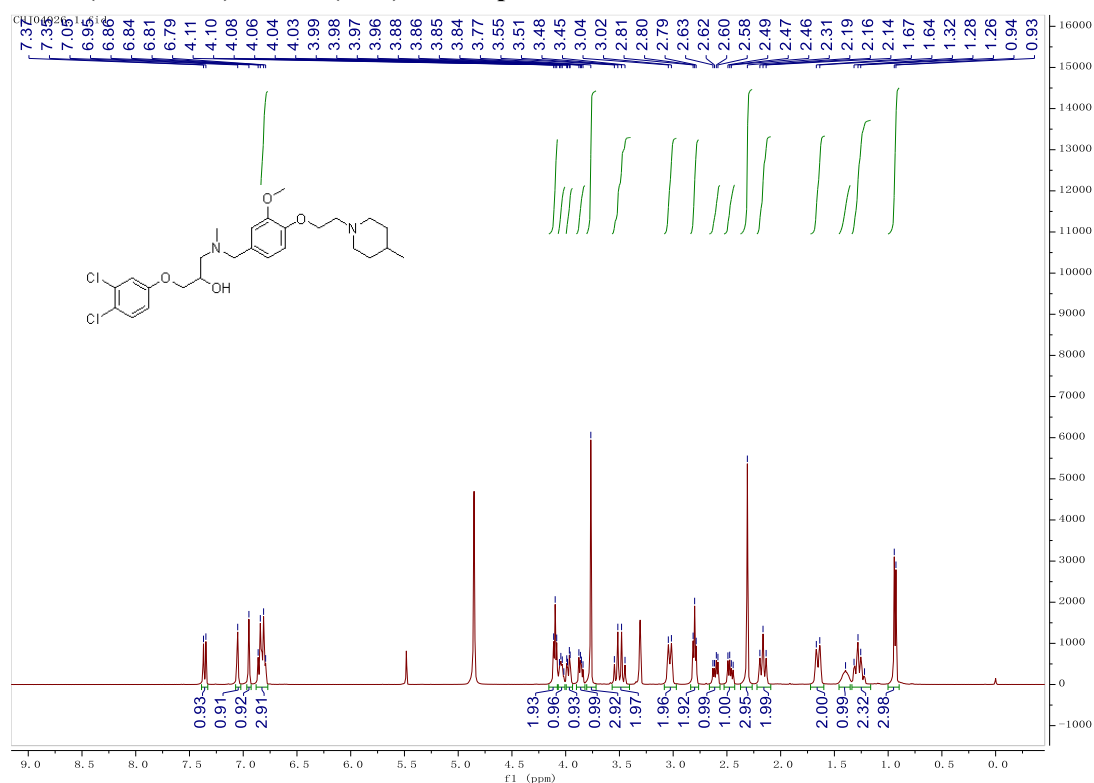


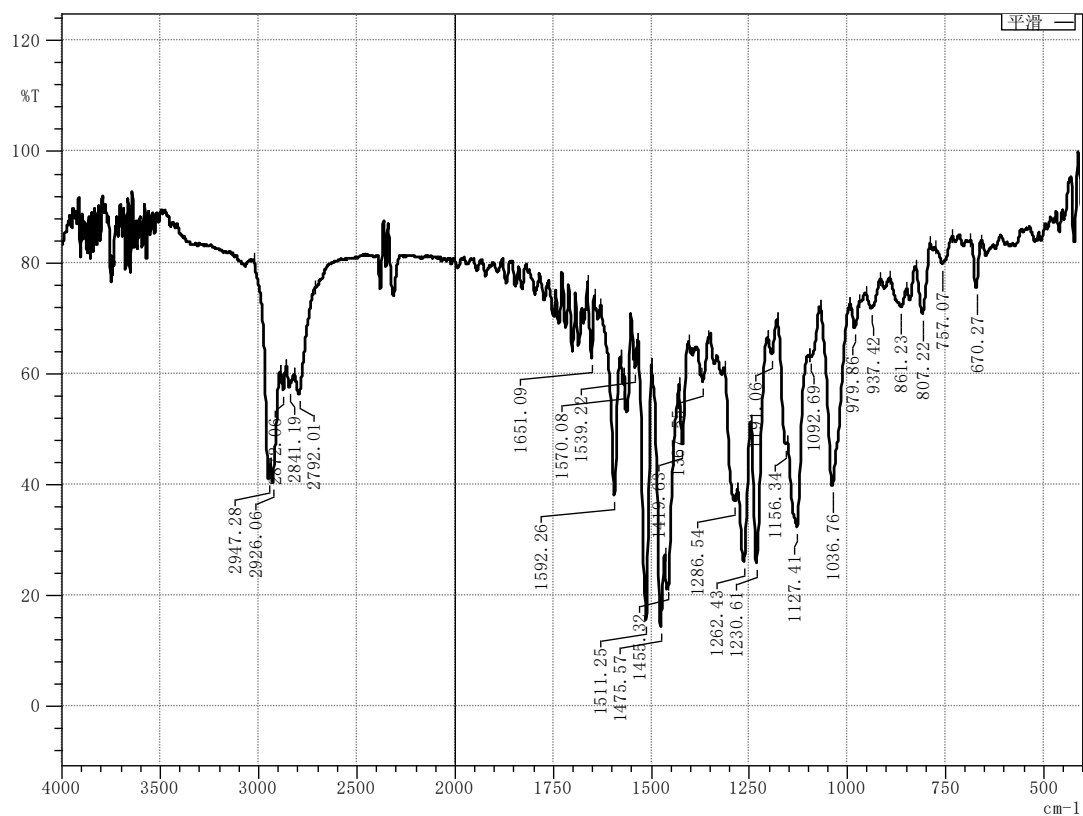
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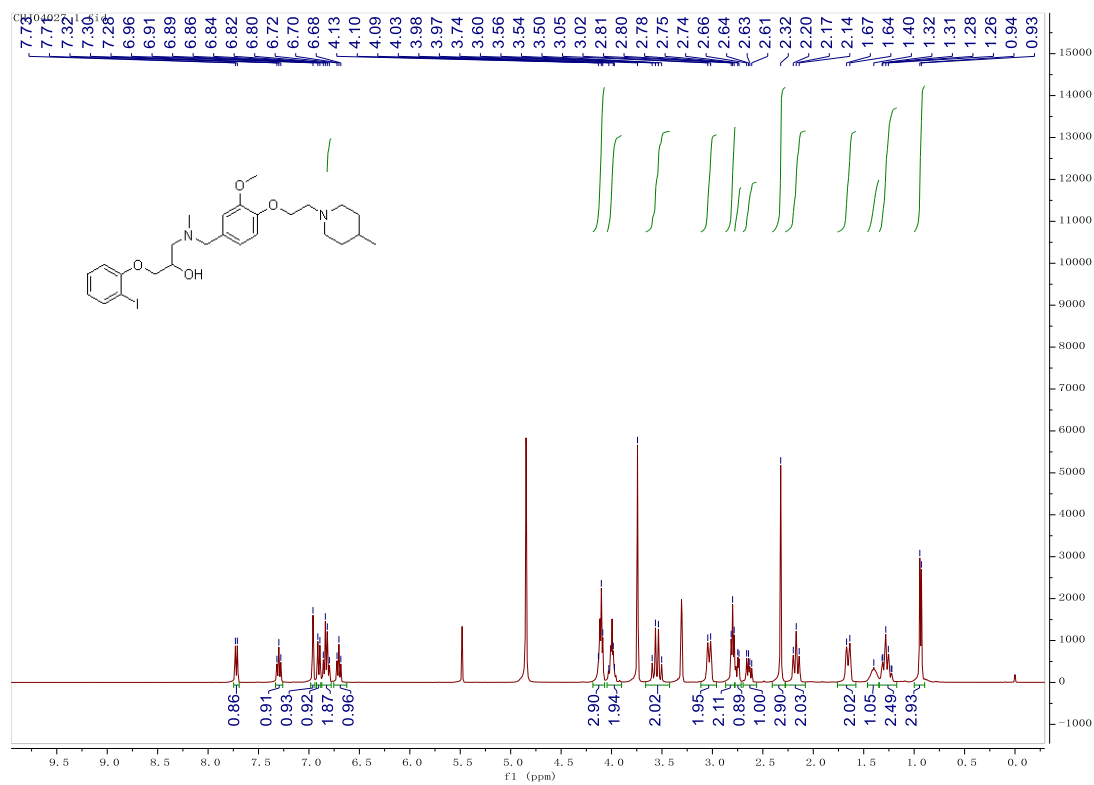


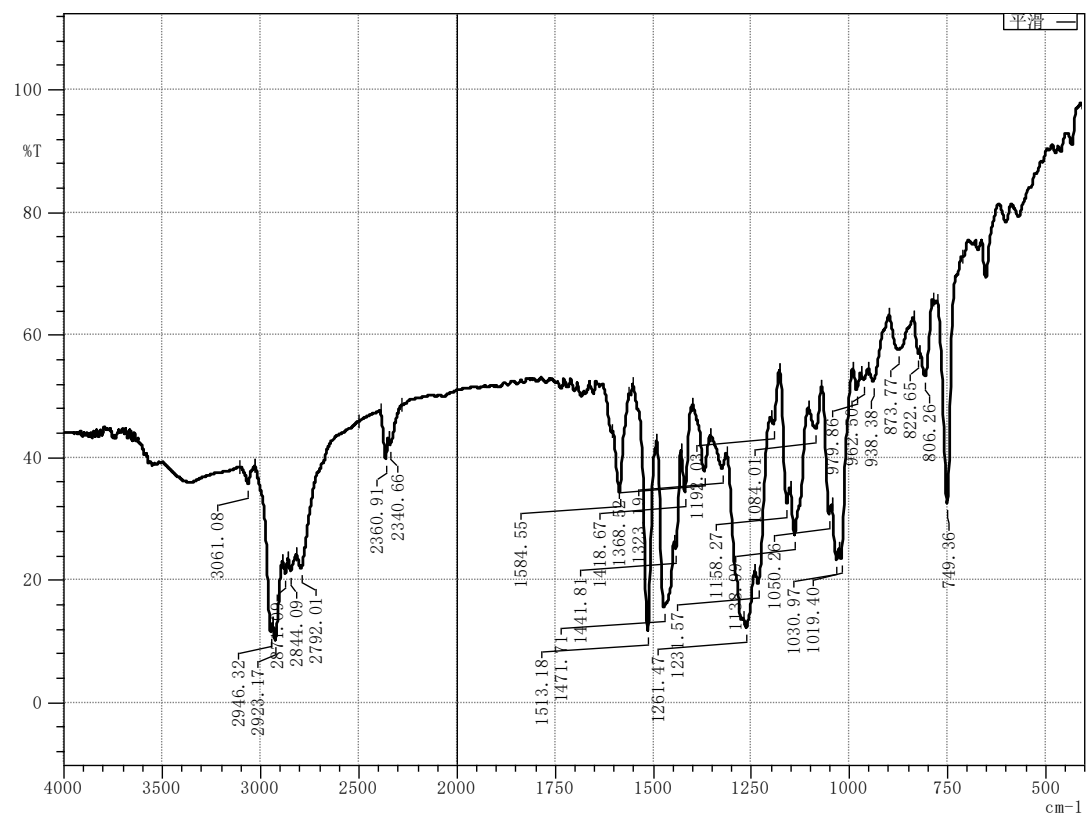
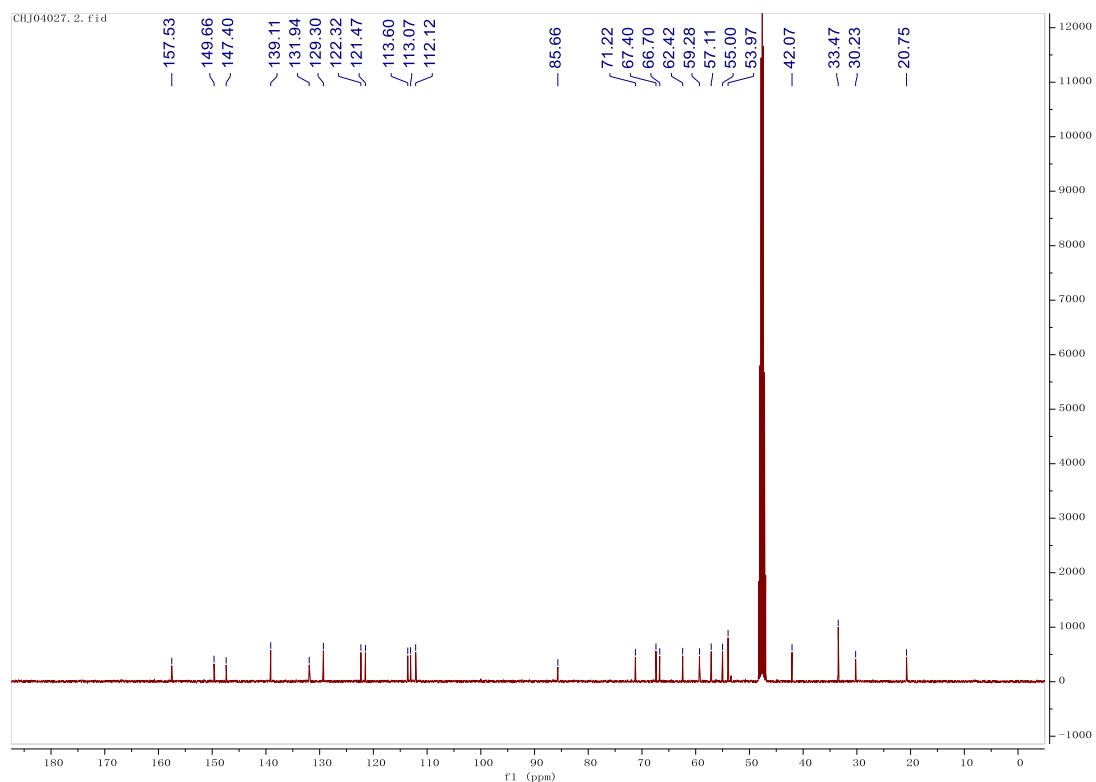
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04026:**



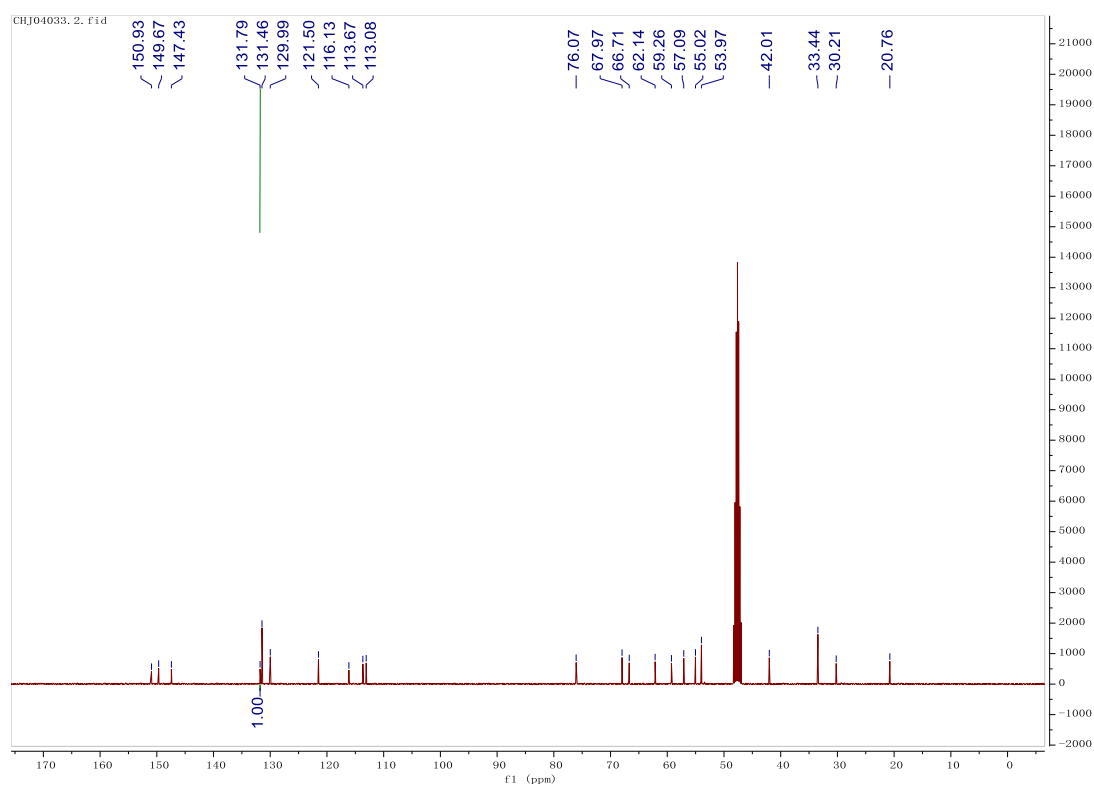
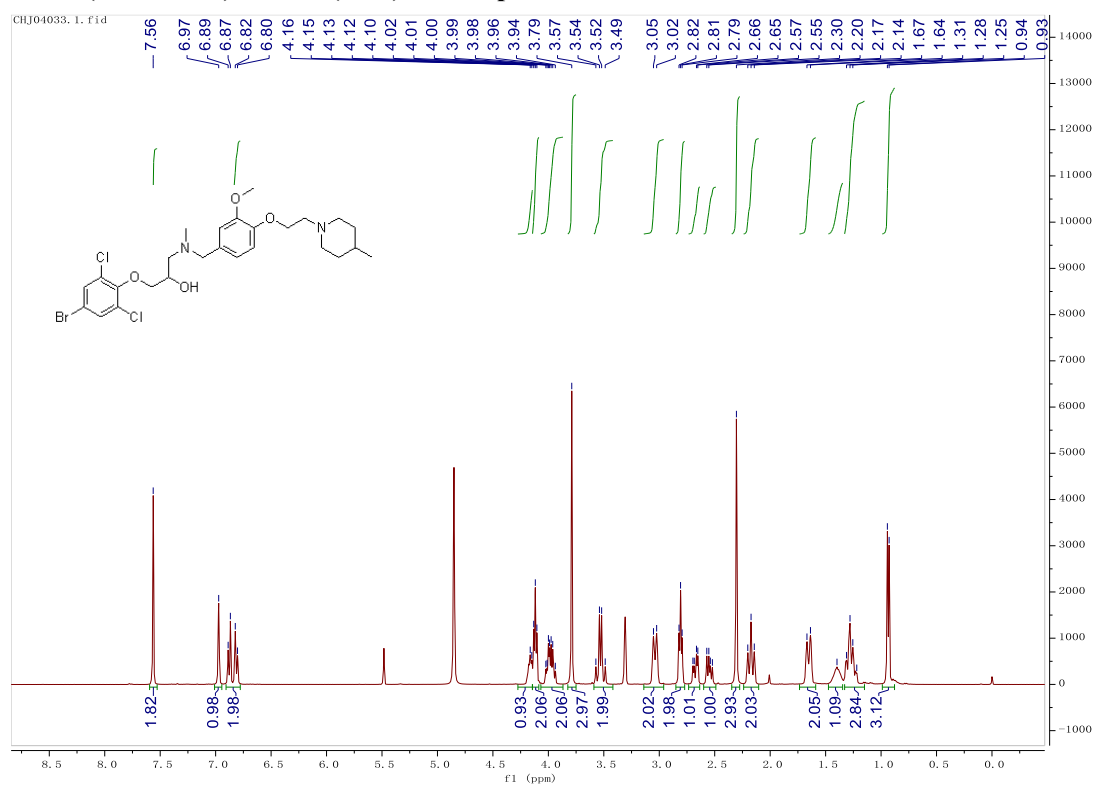


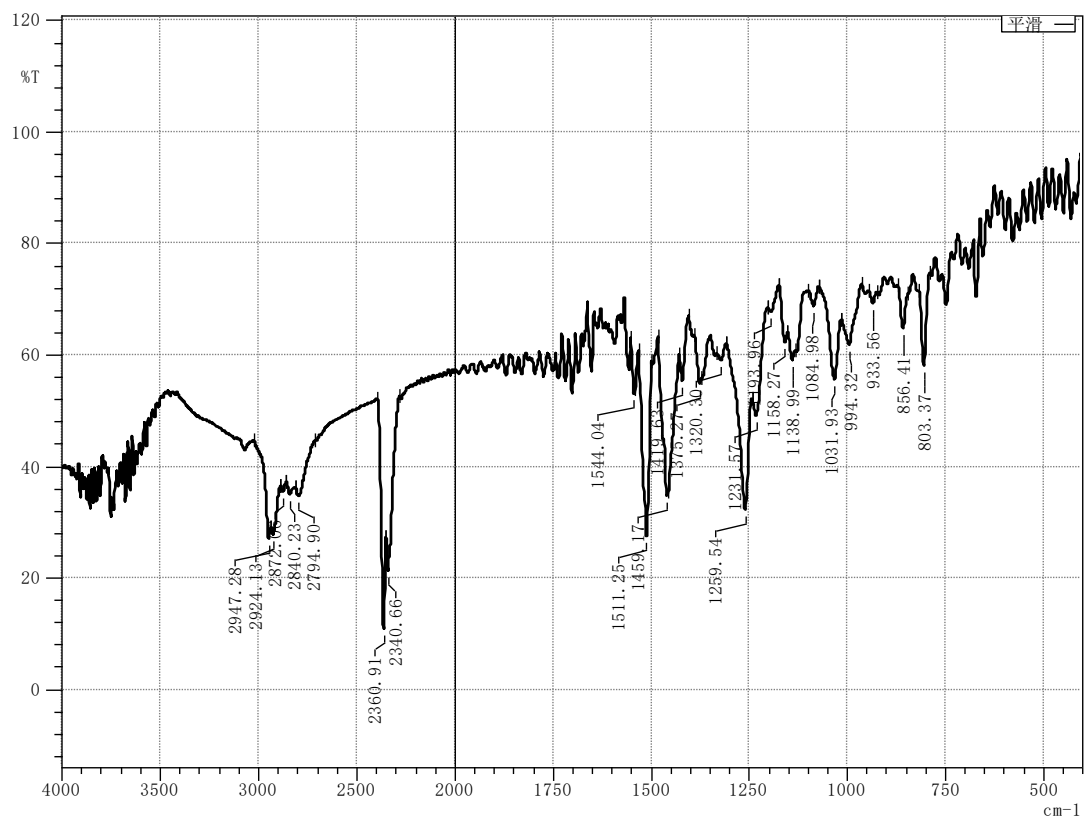
**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04027:**



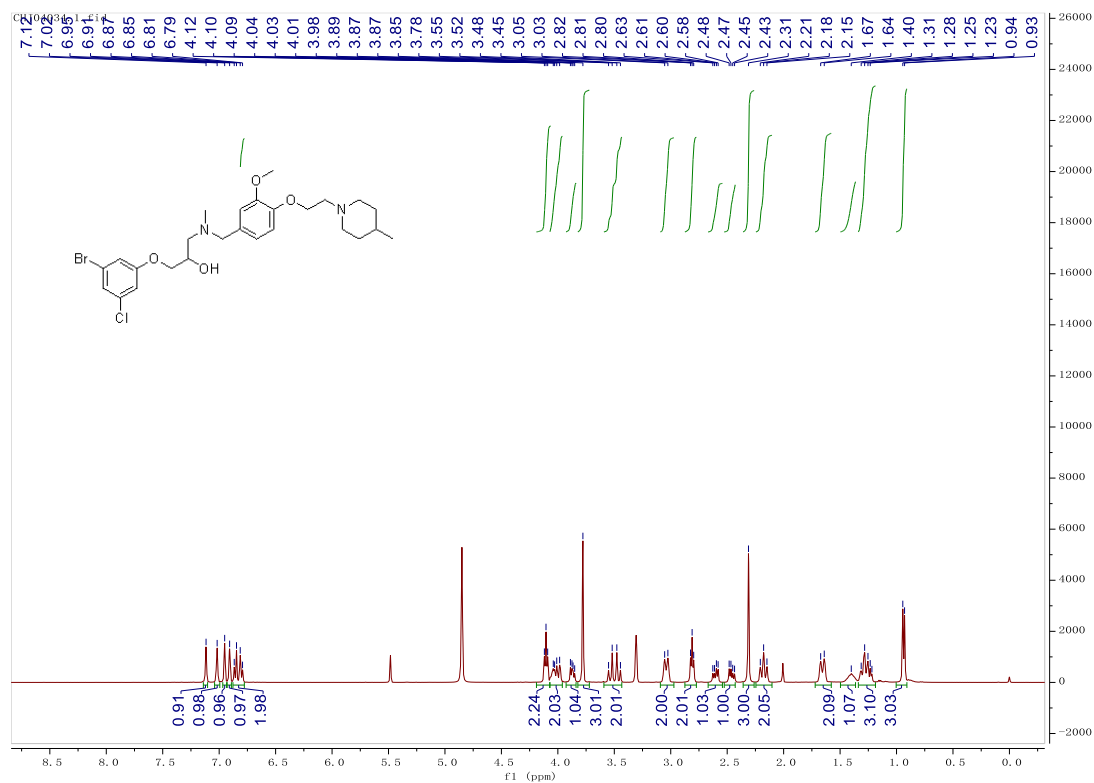


**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04033:**

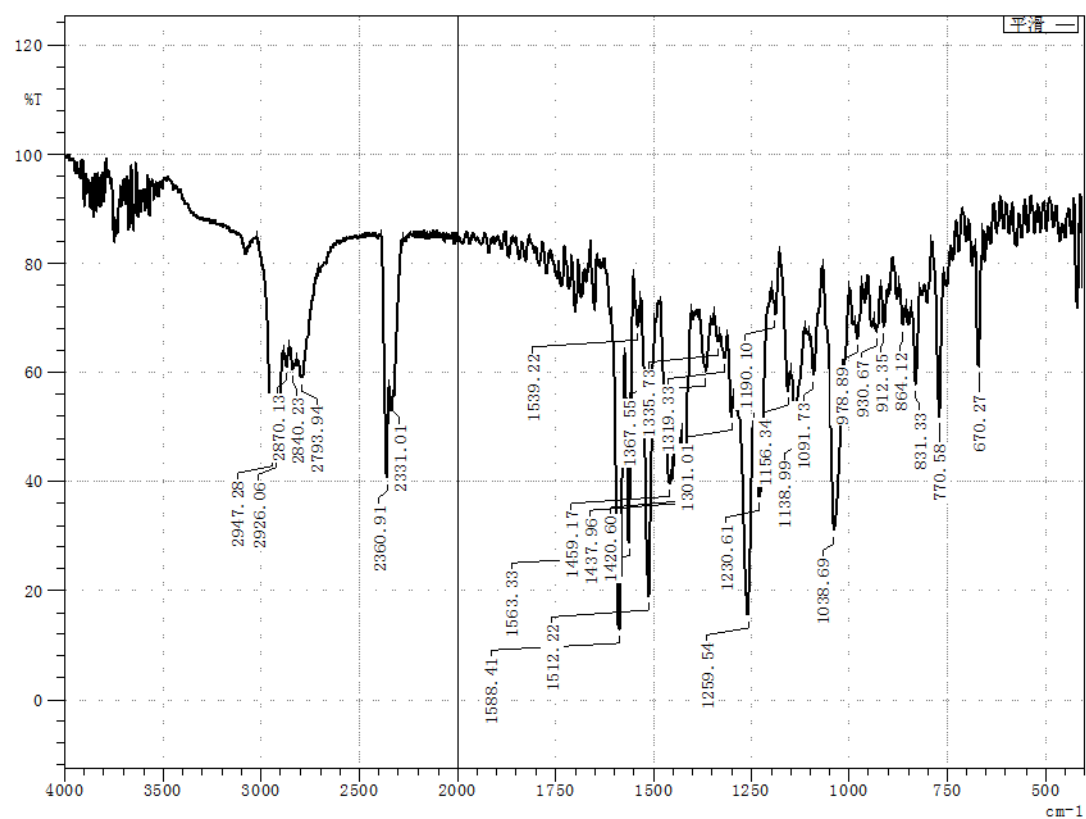
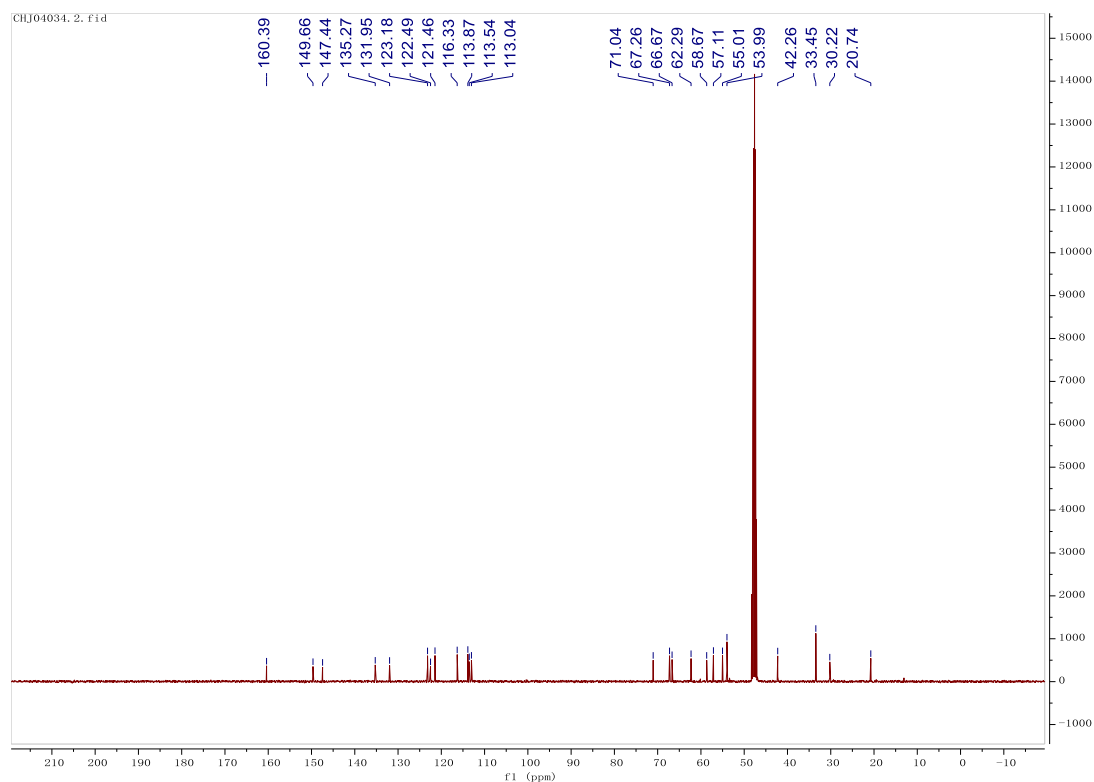




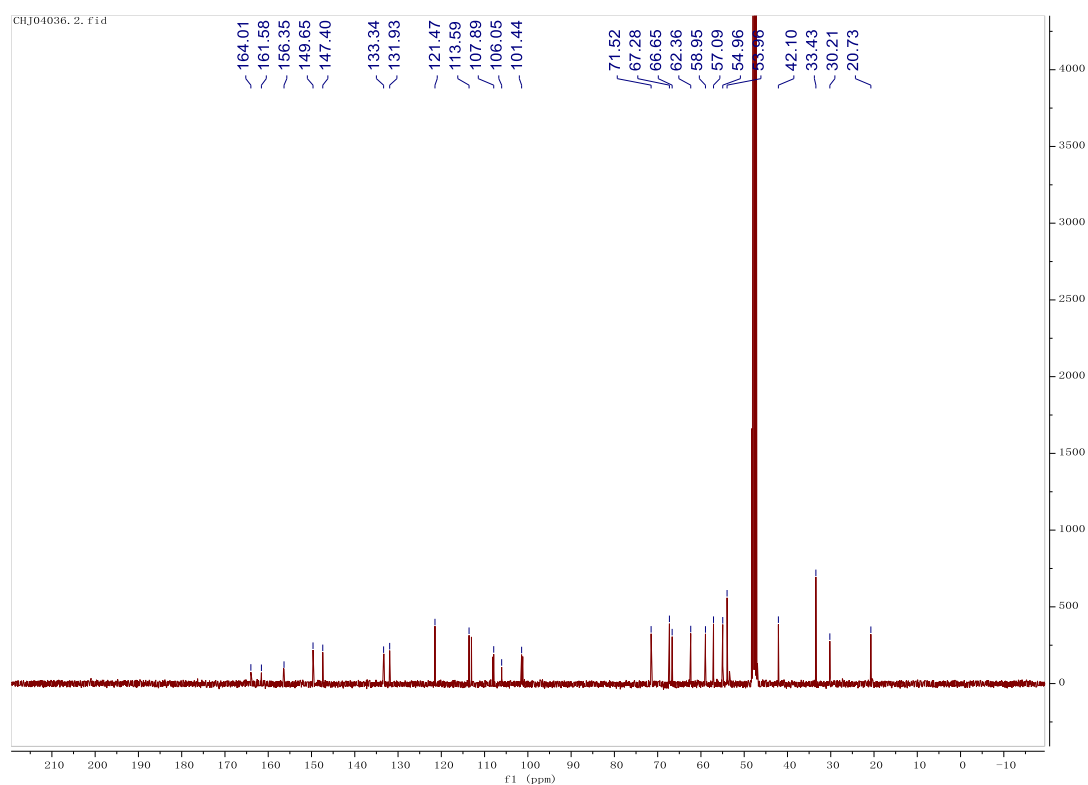
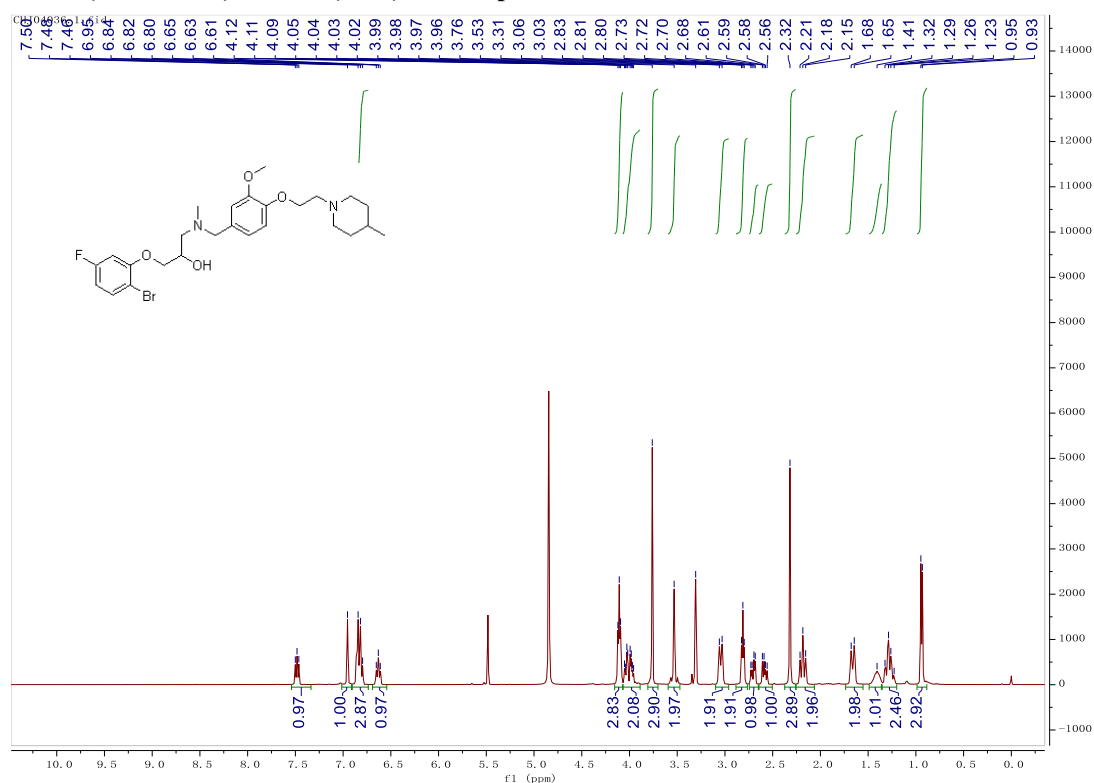
**NMR ( $^1\text{H}$  and  $^{13}\text{C}$ ) and IR (KBr) of Compound CHJ04034:**

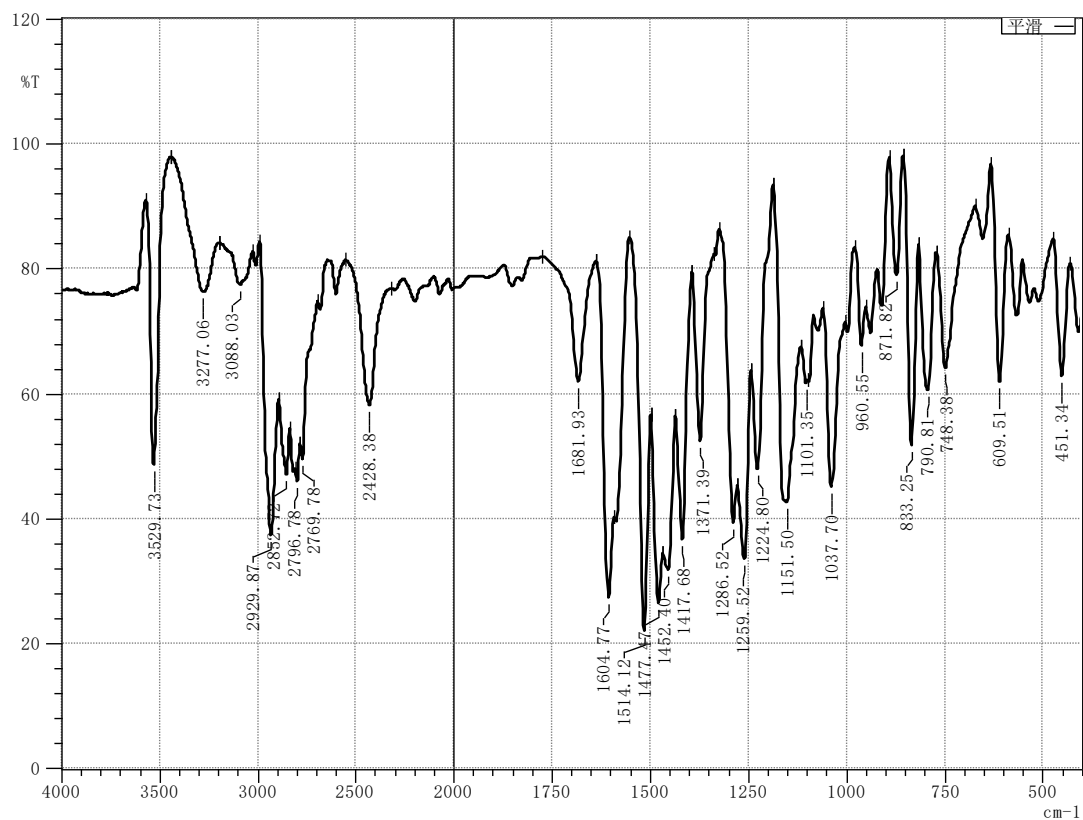




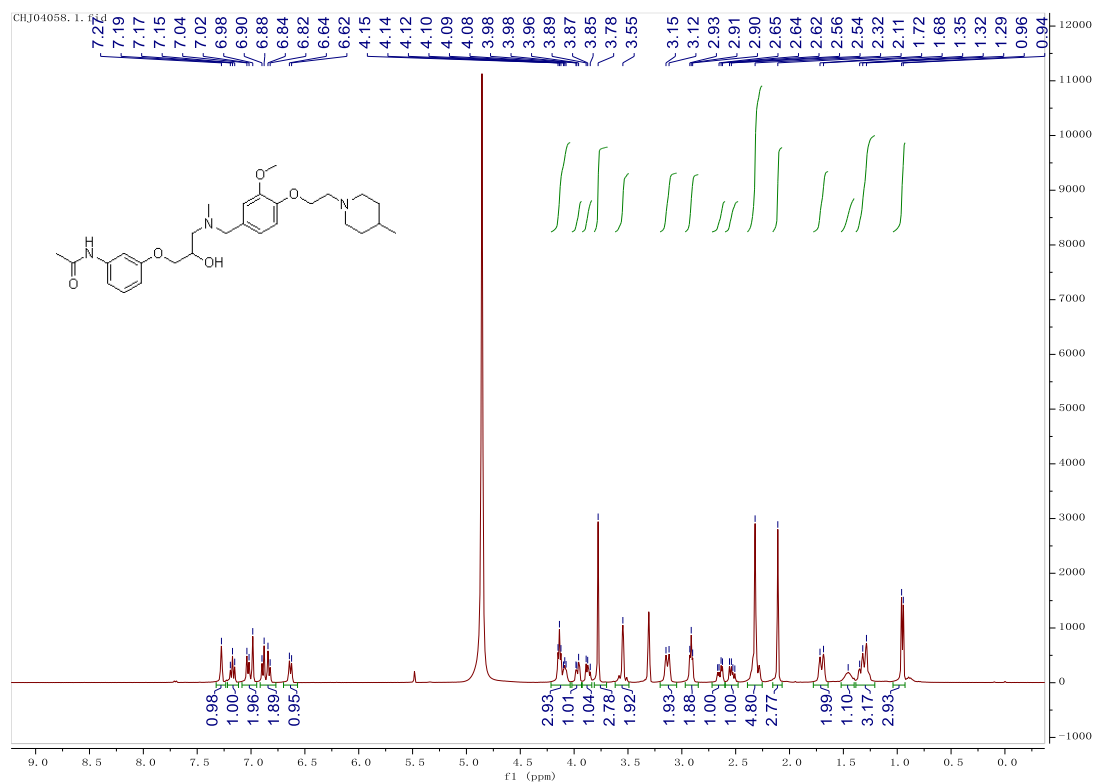


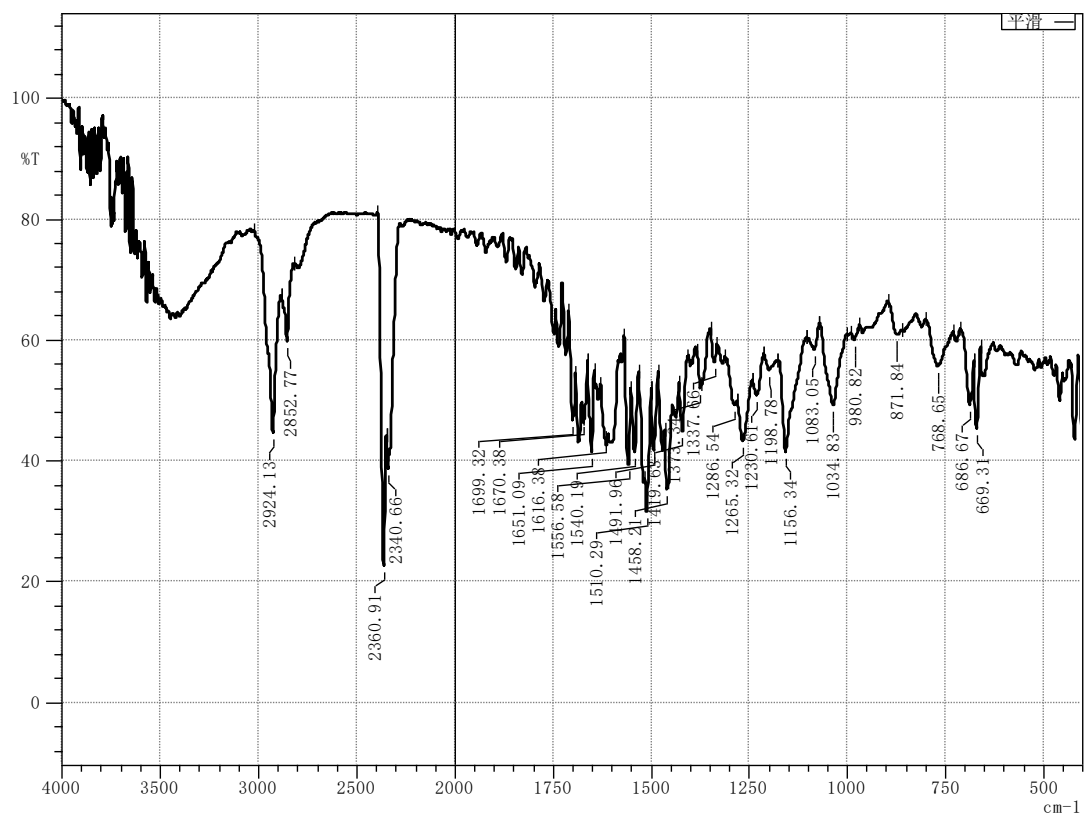
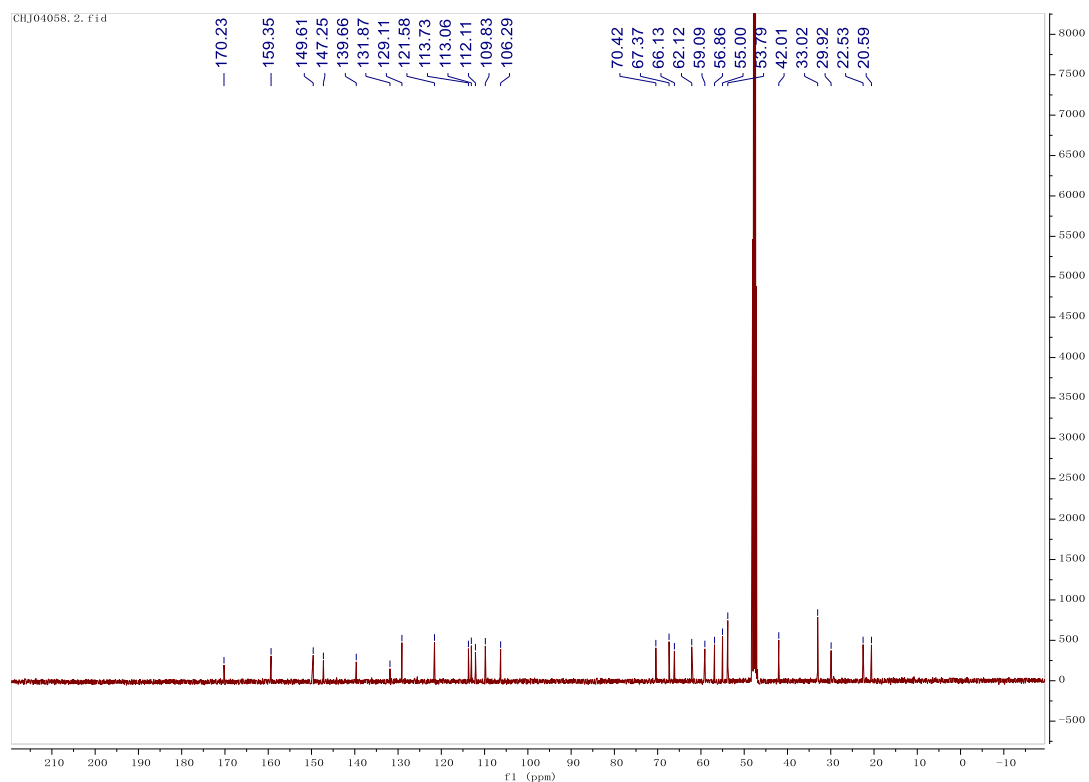
# NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04036:



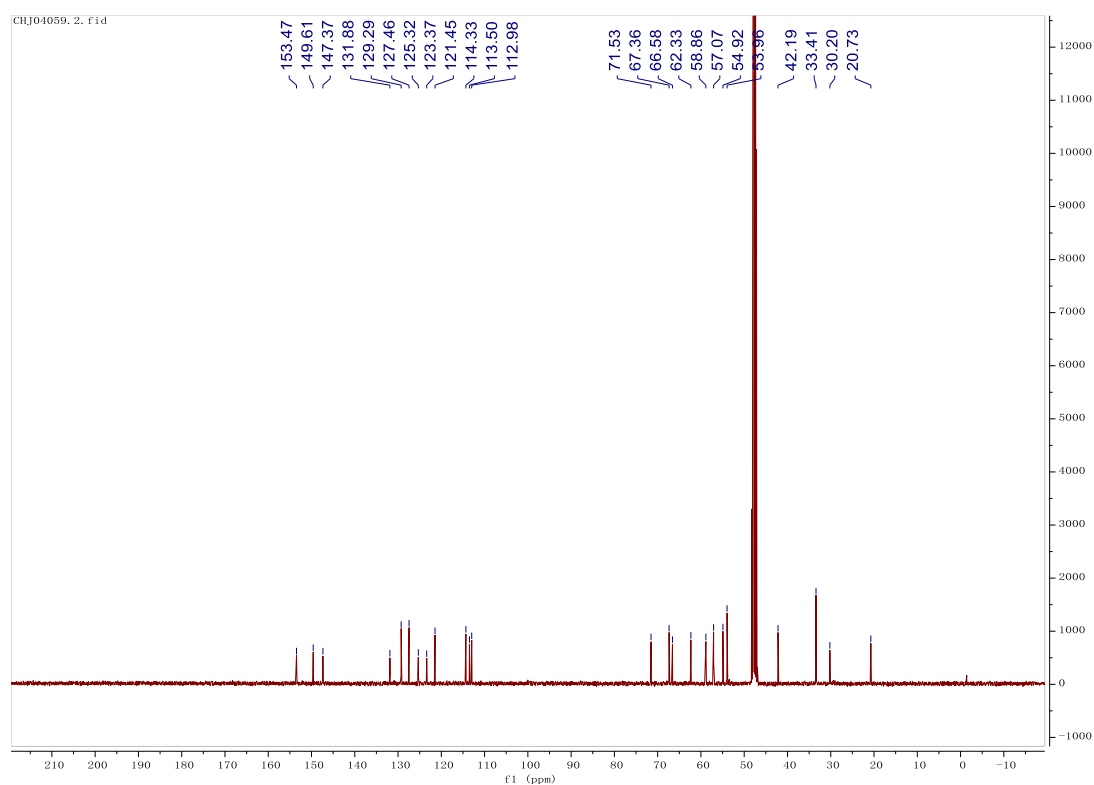
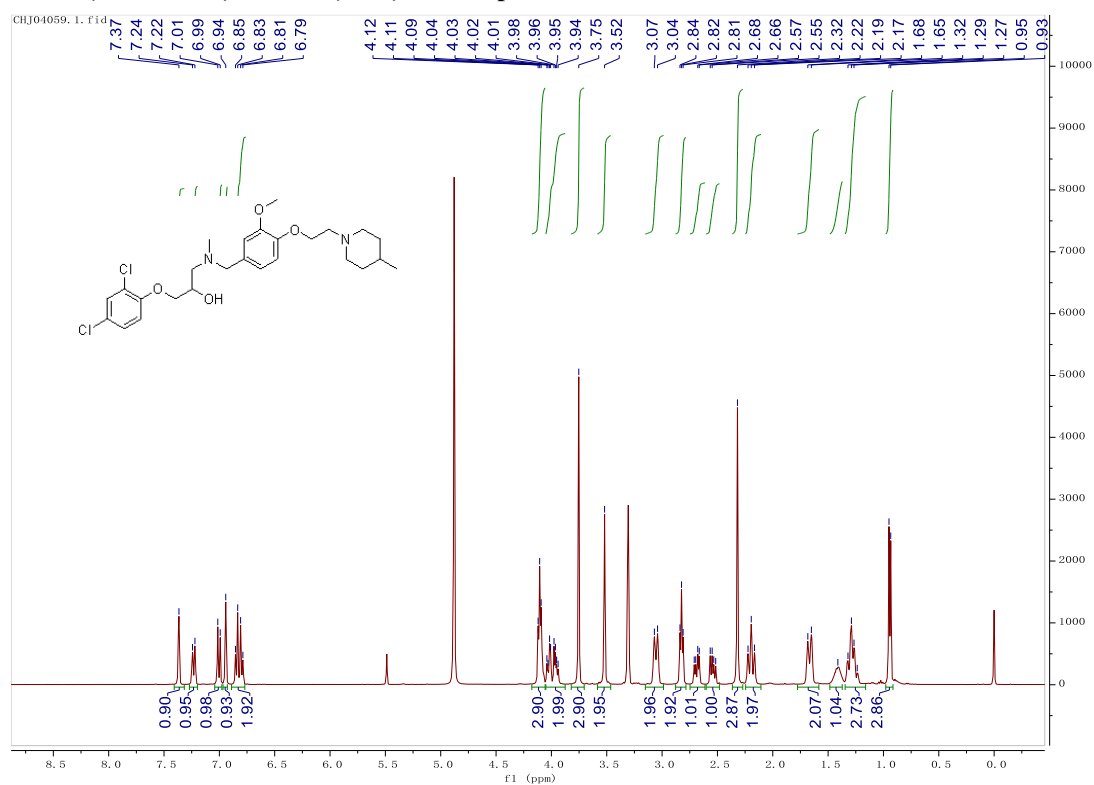


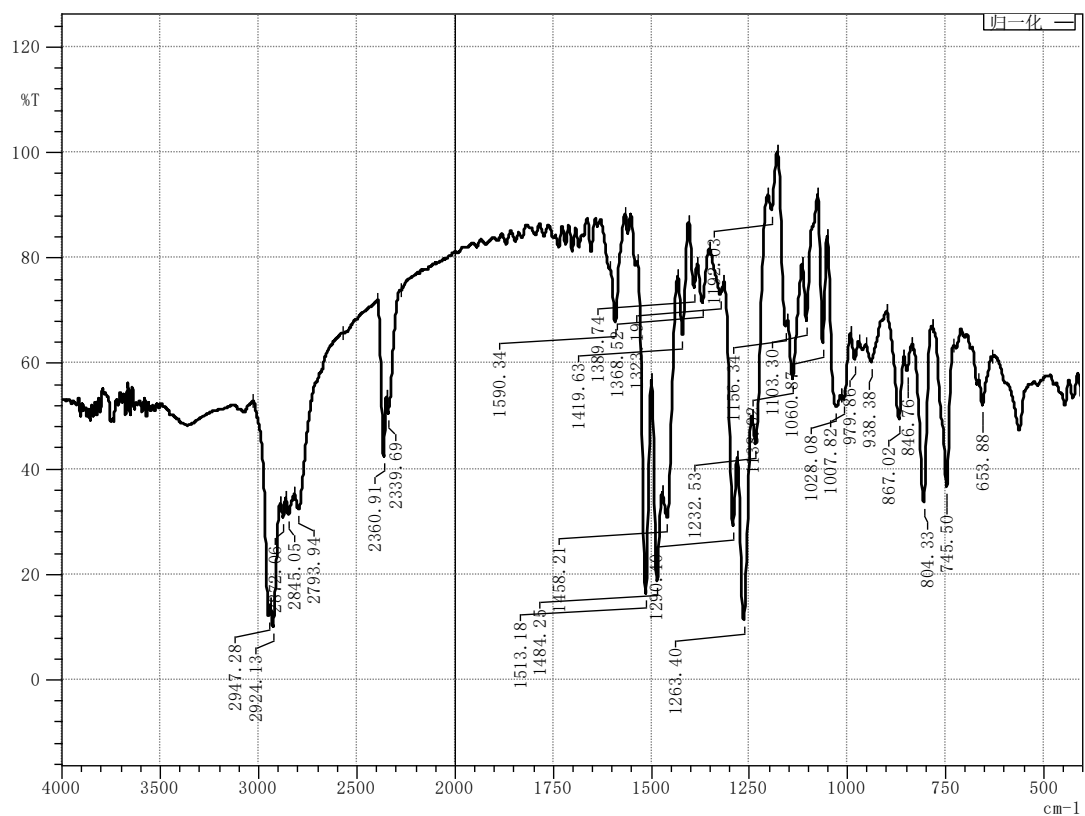
**NMR ( $^1\text{H}$  and  $^{13}\text{C}$ ) and IR (KBr) of Compound CHJ04058:**



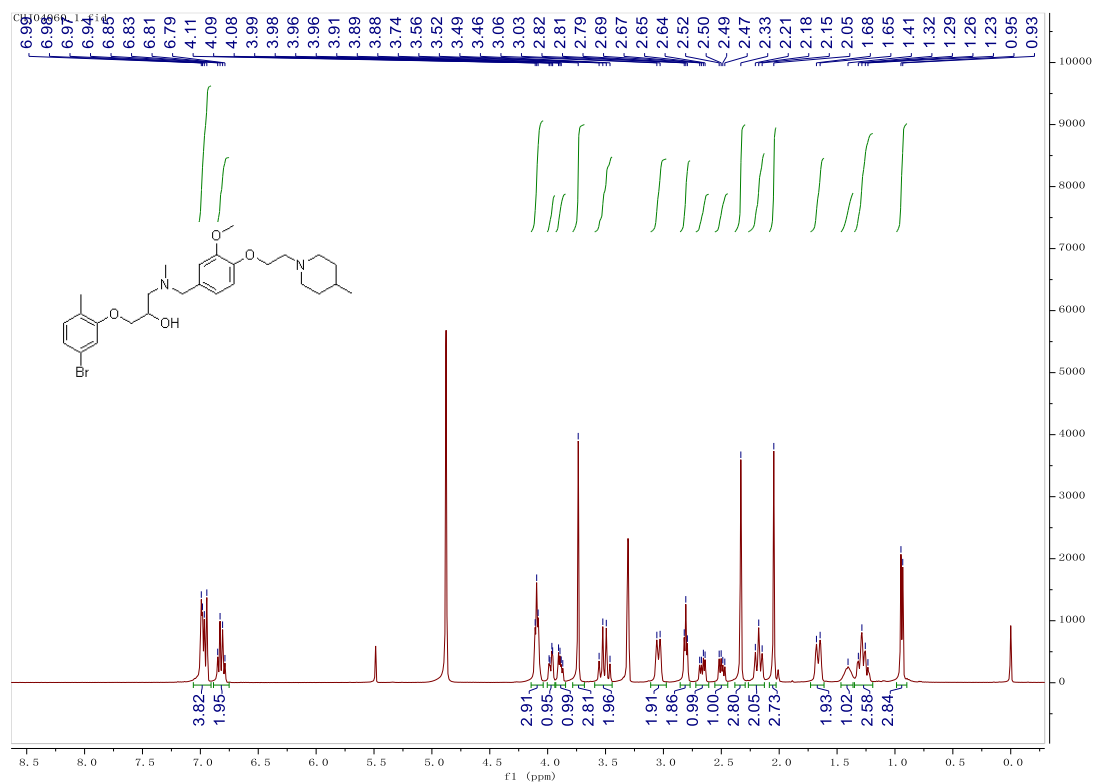


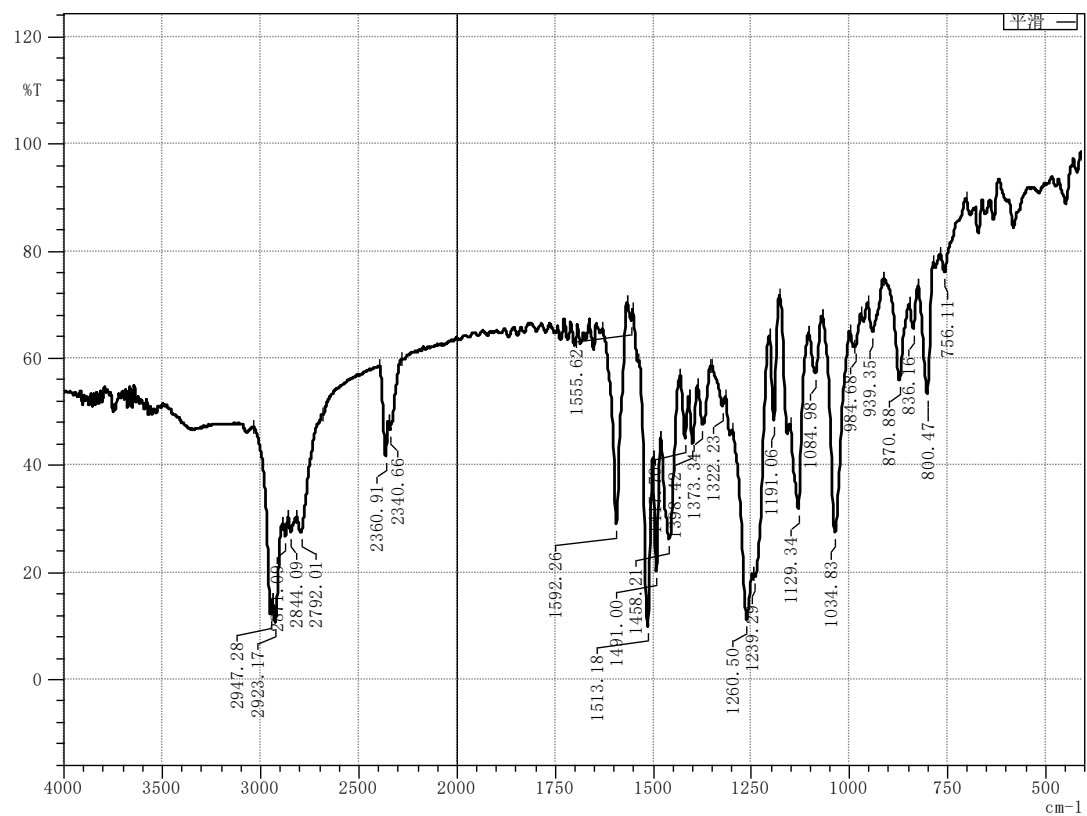
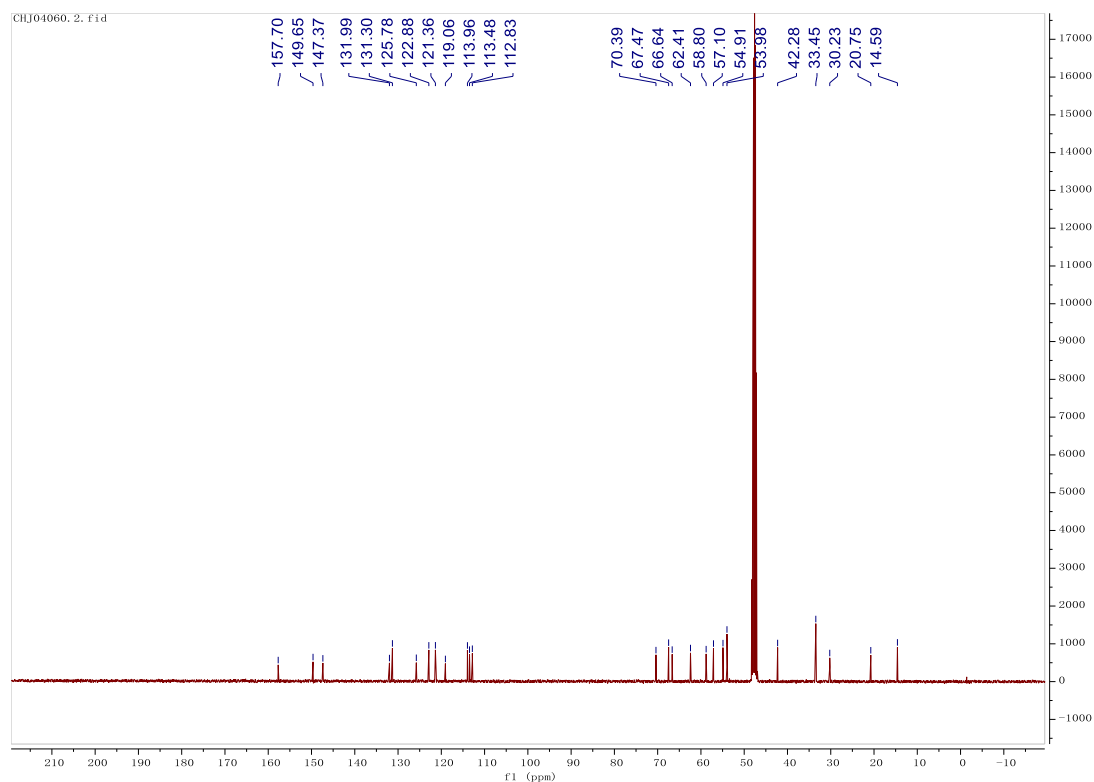
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04059:**



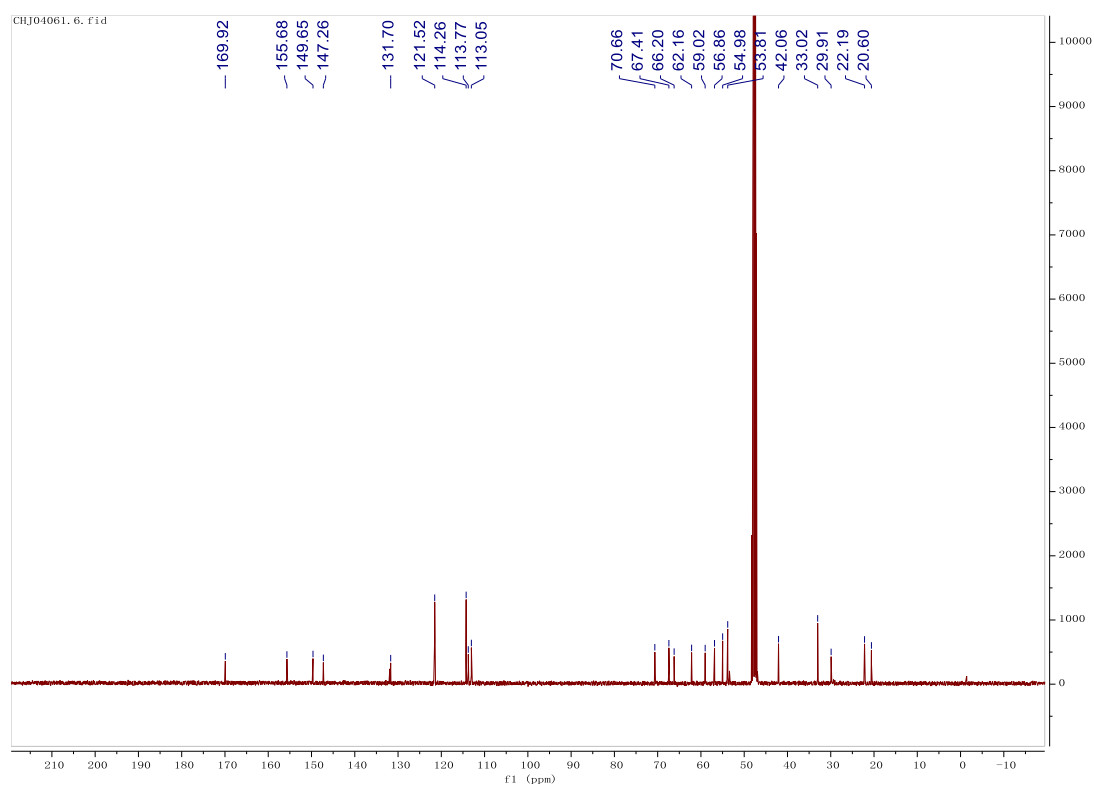
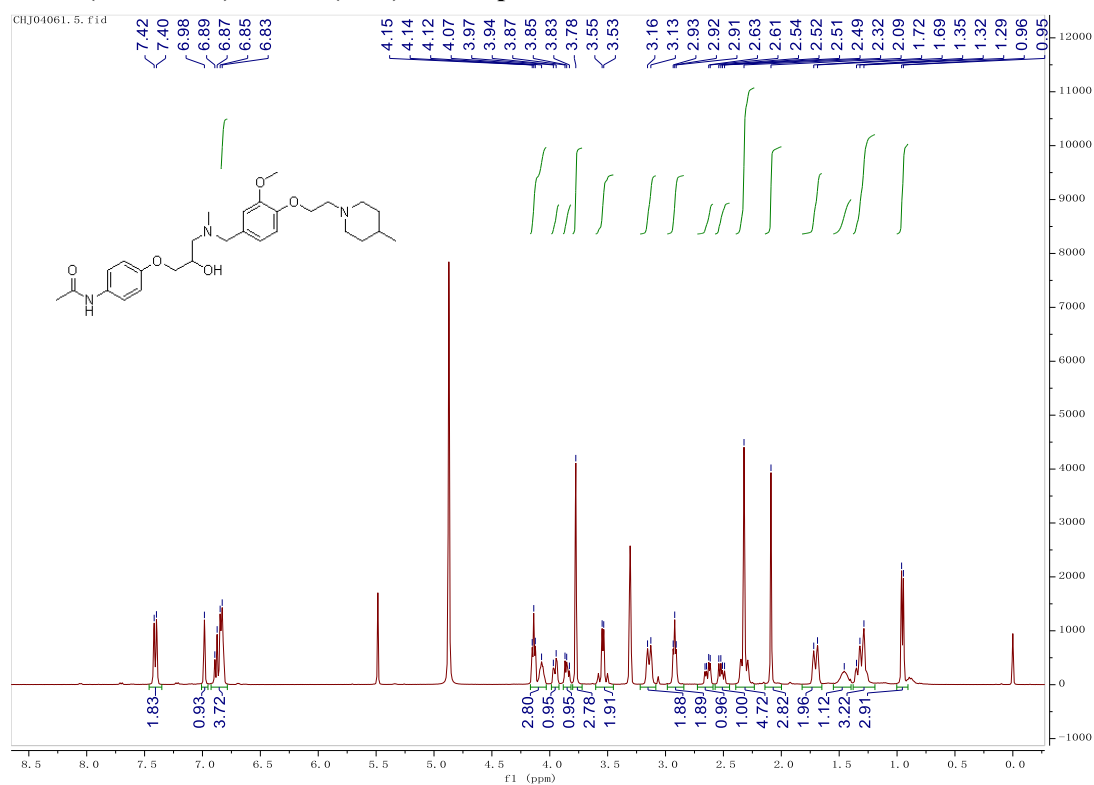


**NMR ( $^1\text{H}$  and  $^{13}\text{C}$ ) and IR (KBr) of Compound CHJ04060:**

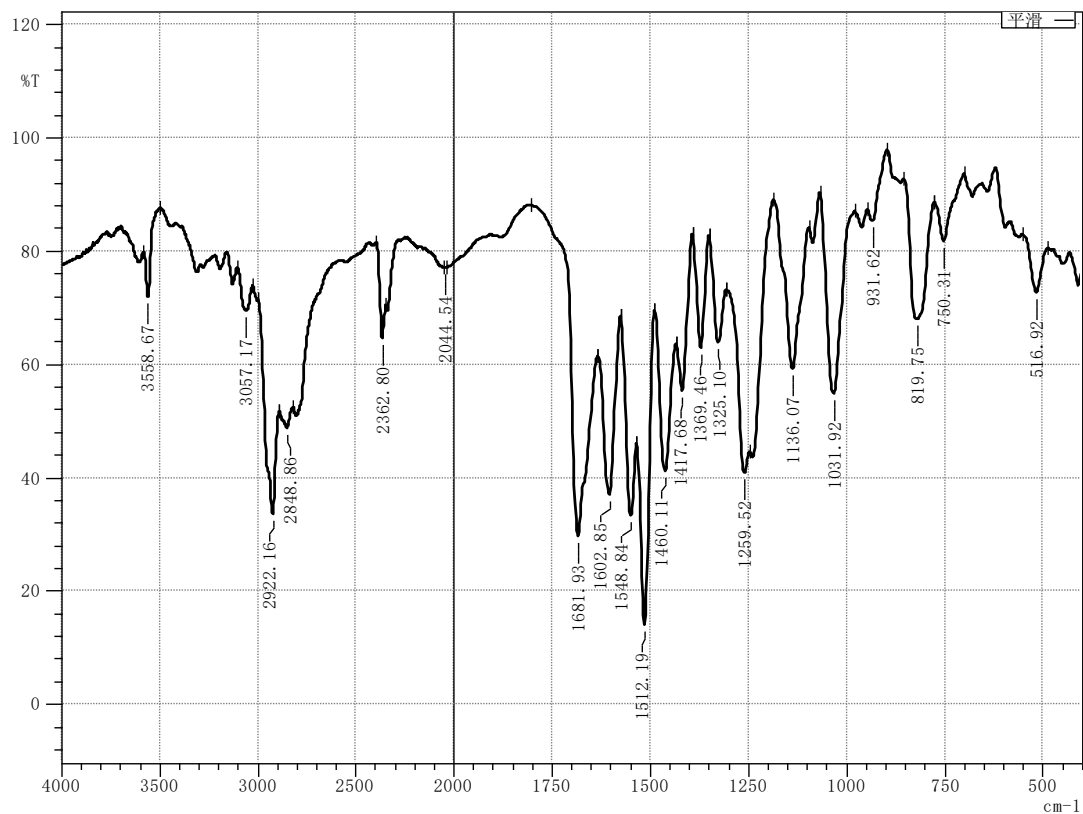




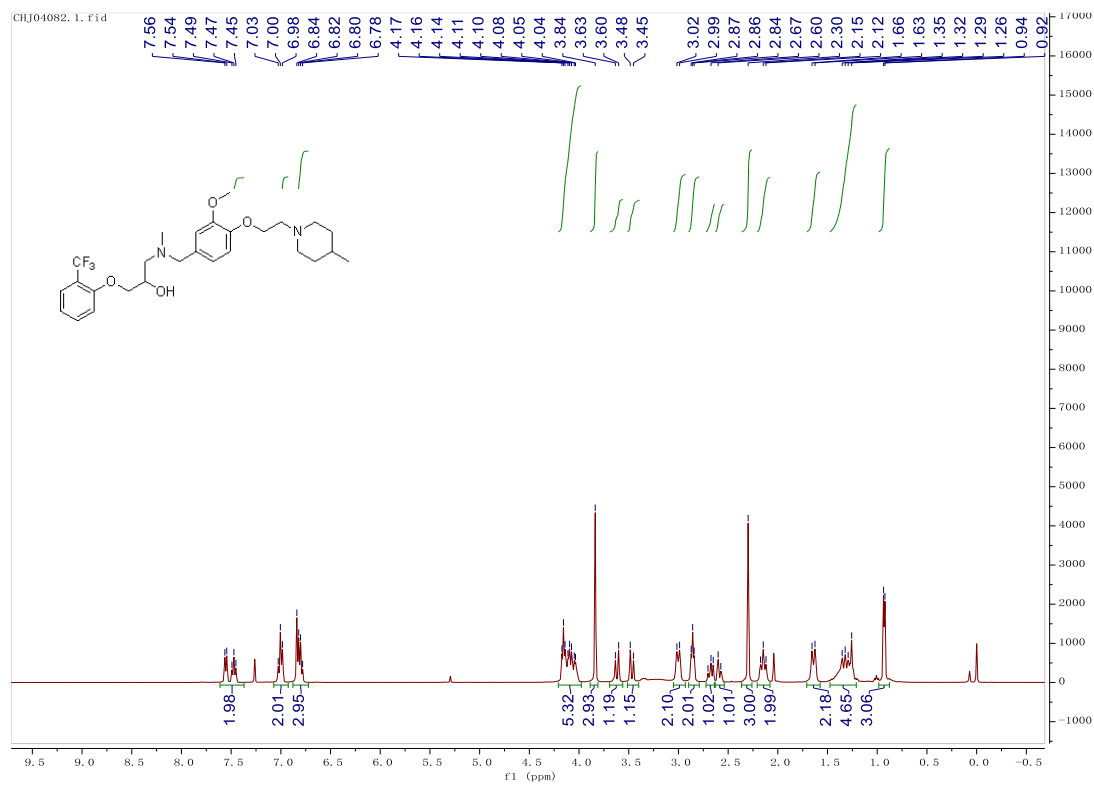
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04061:**

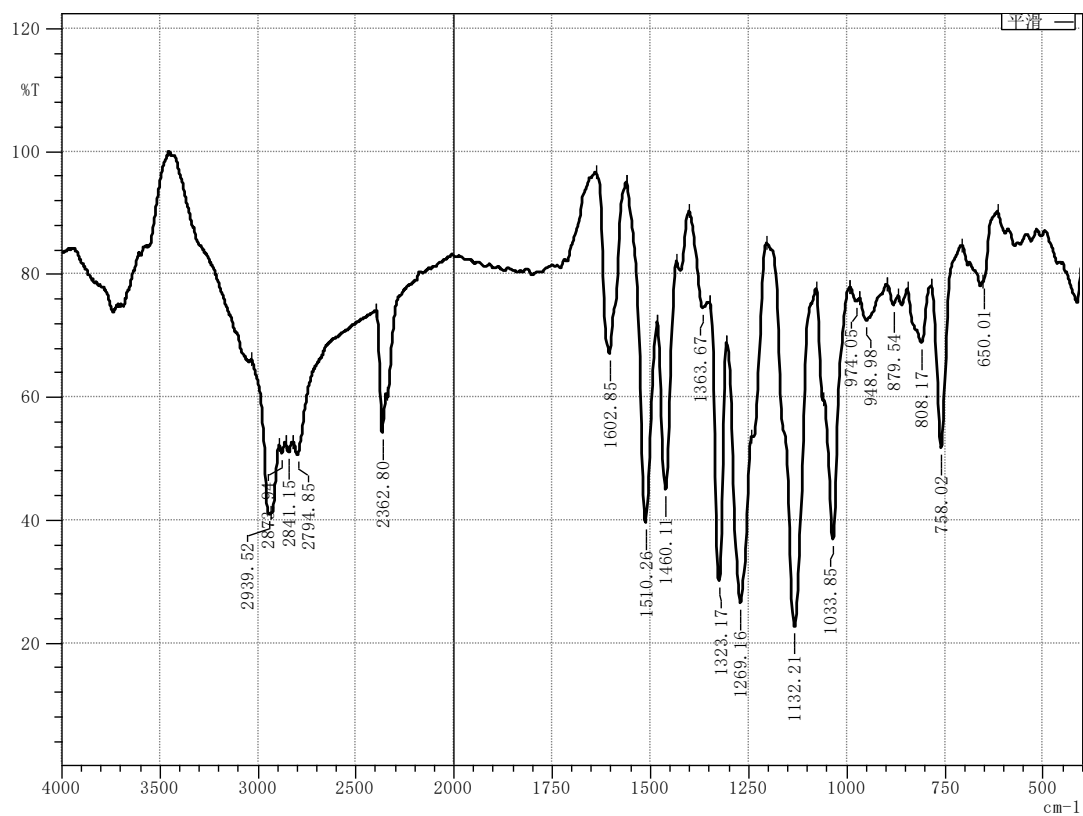
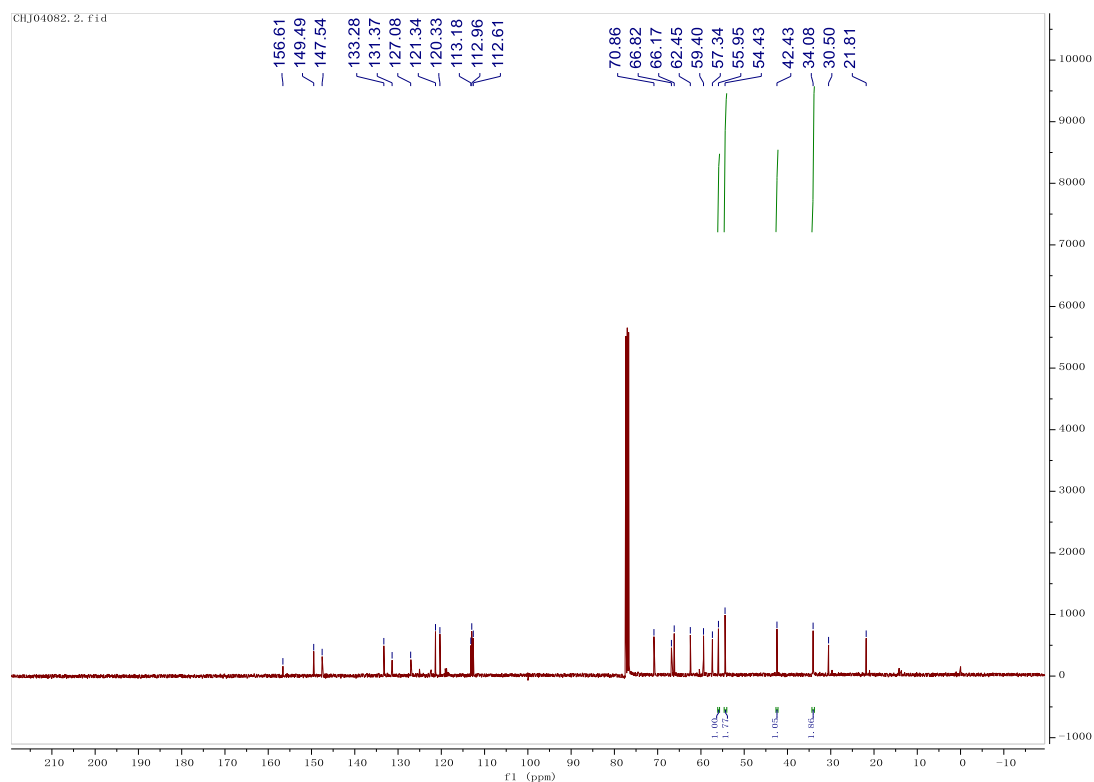




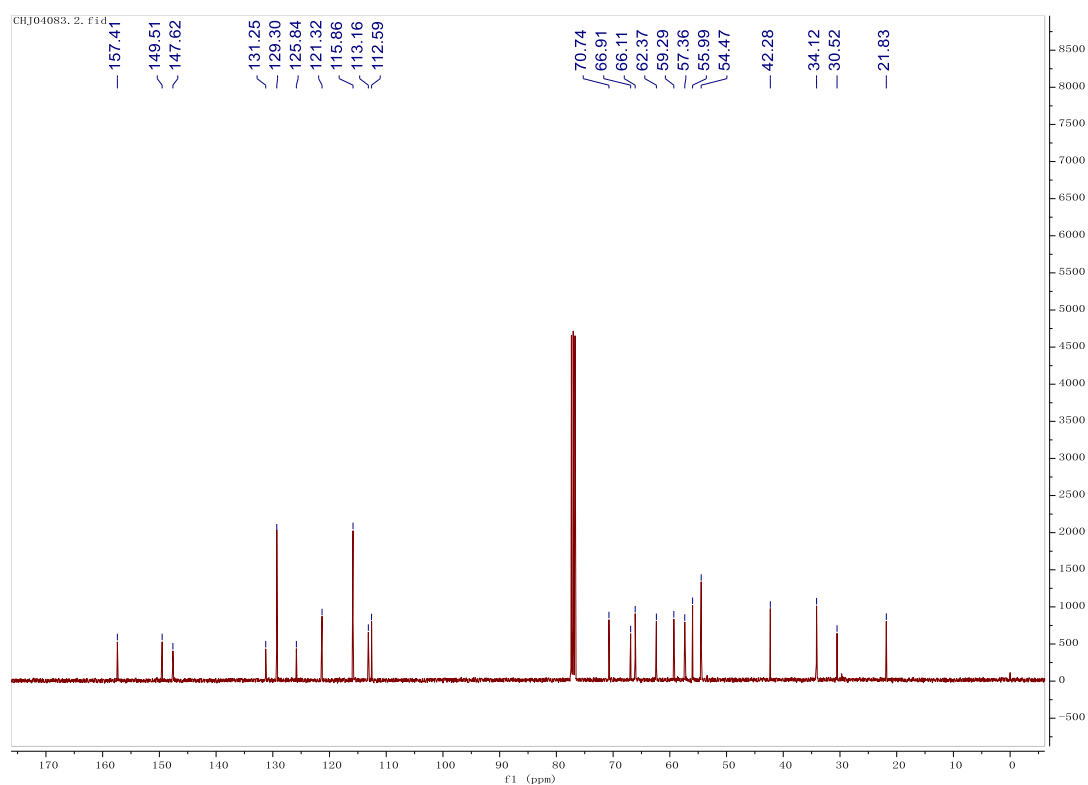
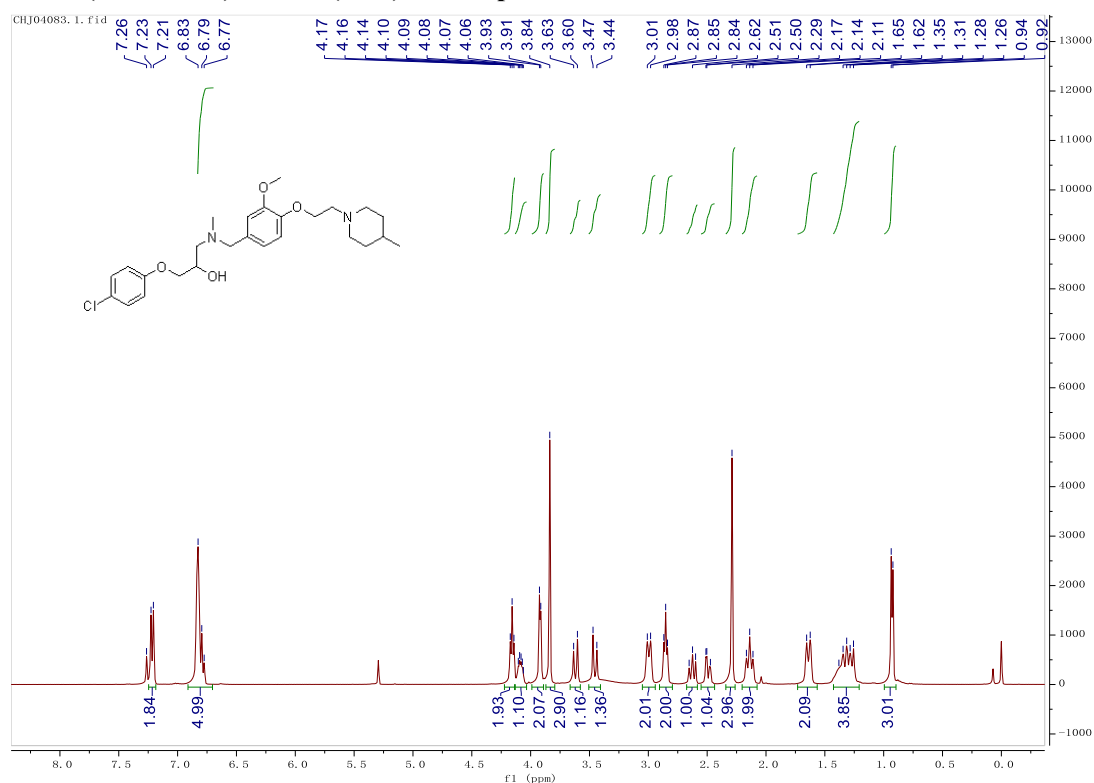


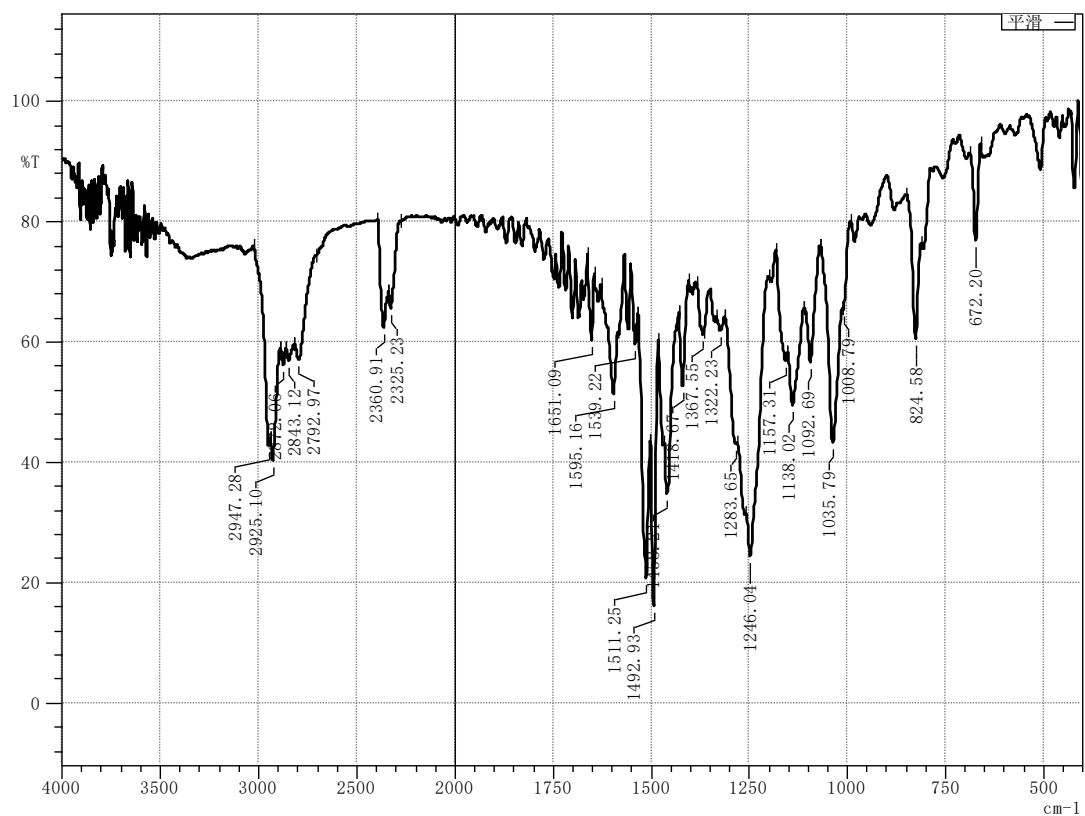
**NMR ( $^1\text{H}$  and  $^{13}\text{C}$ ) and IR (KBr) of Compound CHJ04082:**



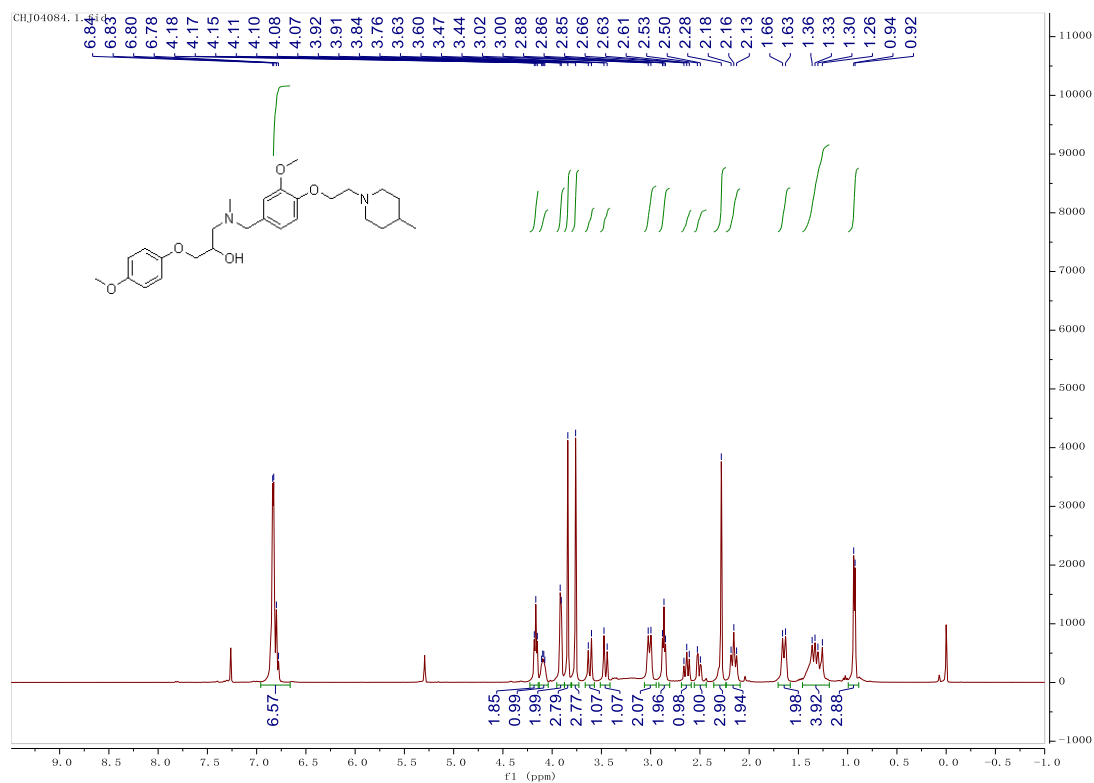


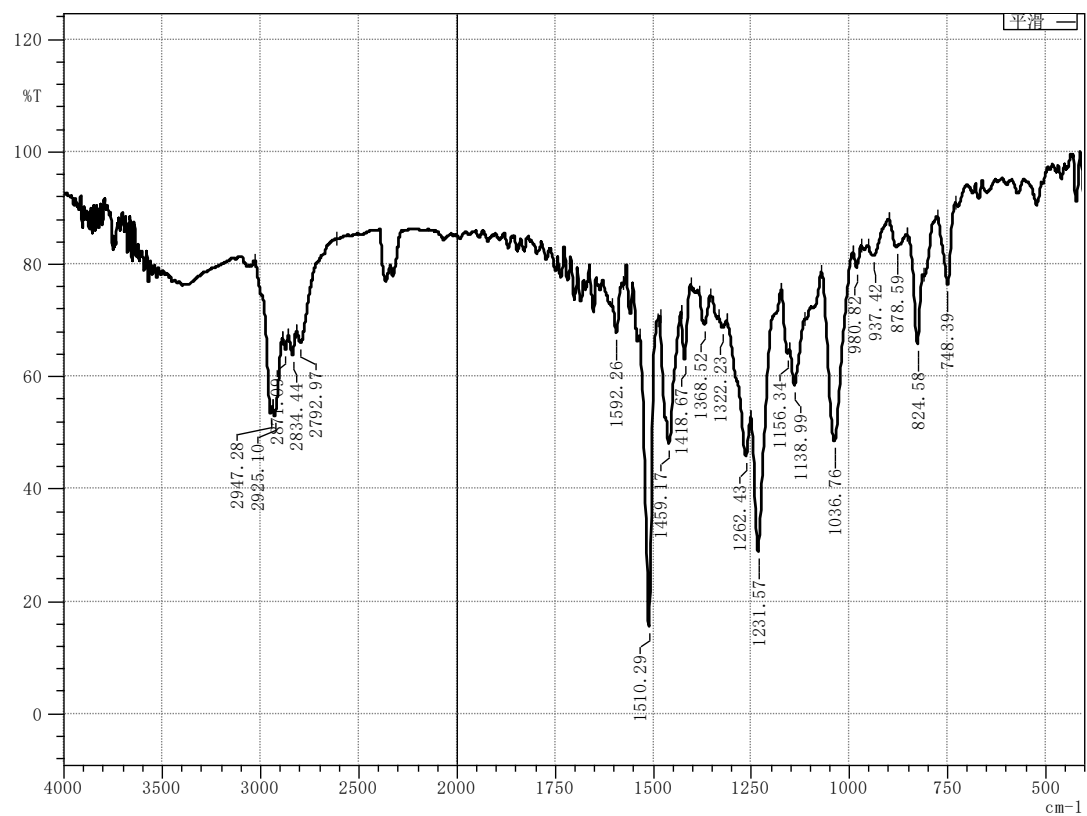
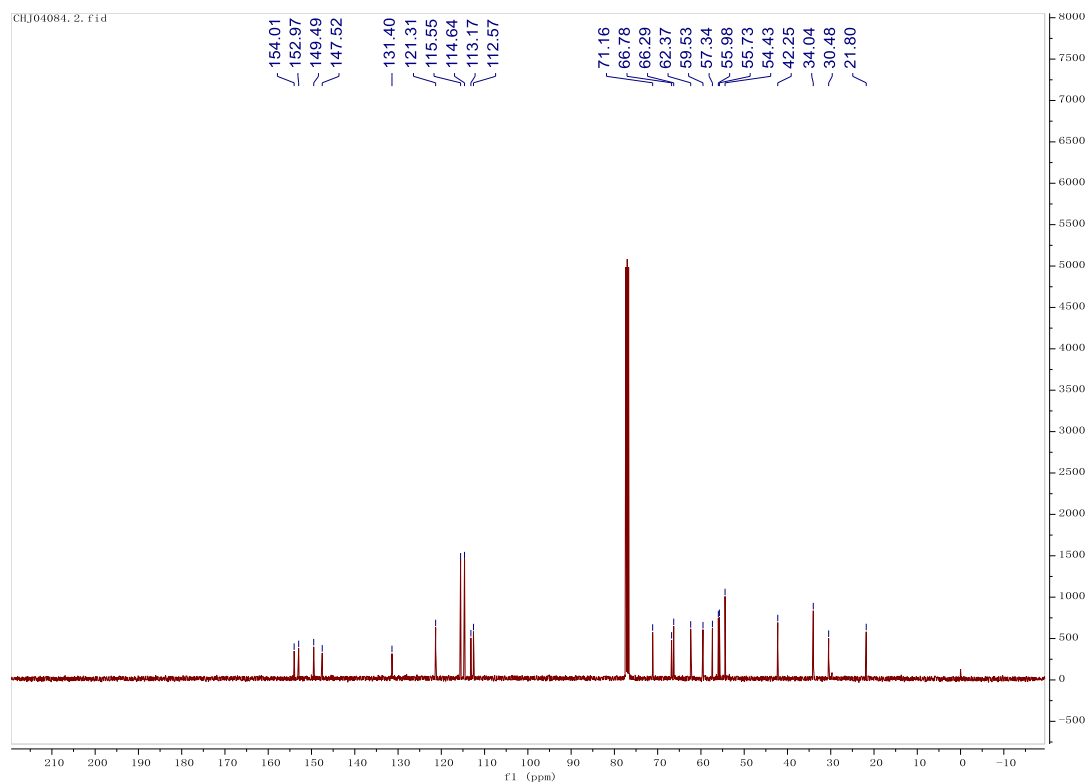
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04083:**



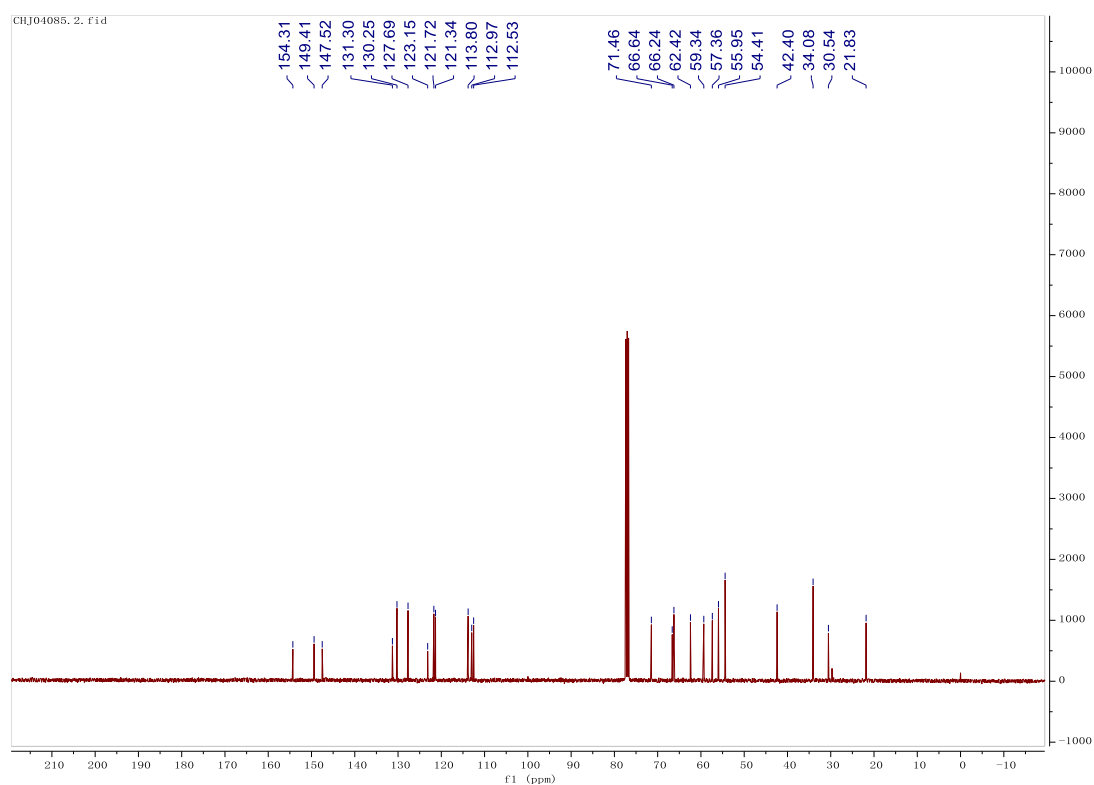
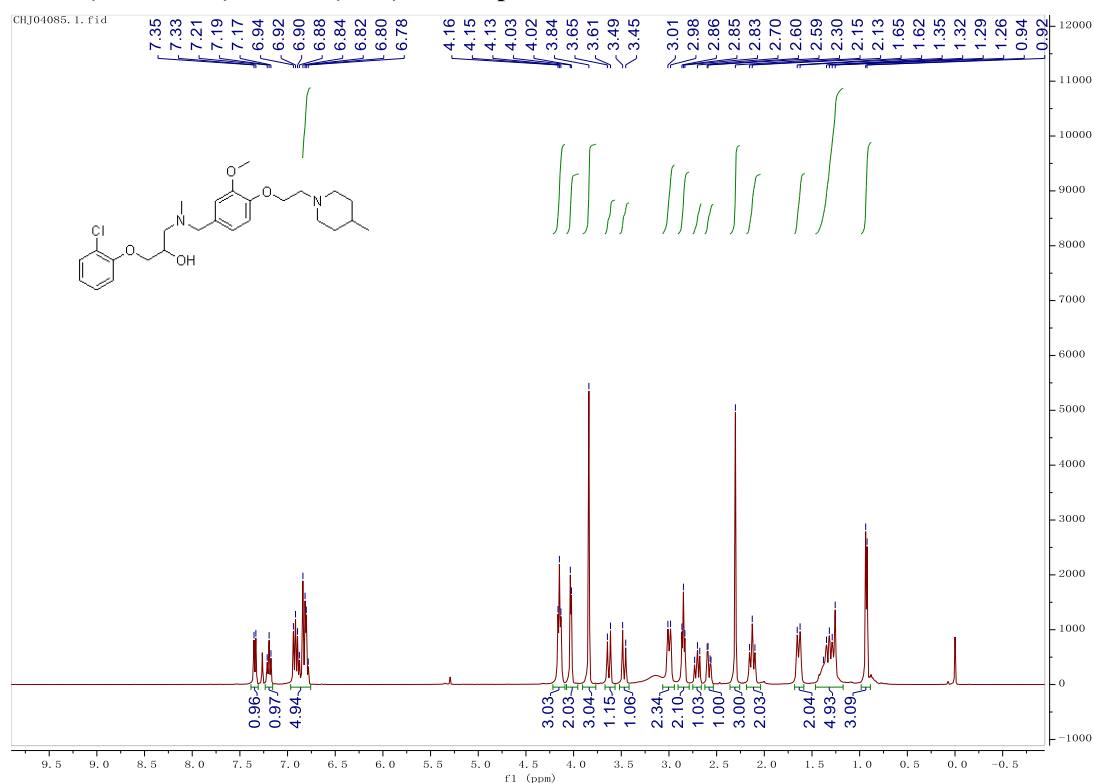


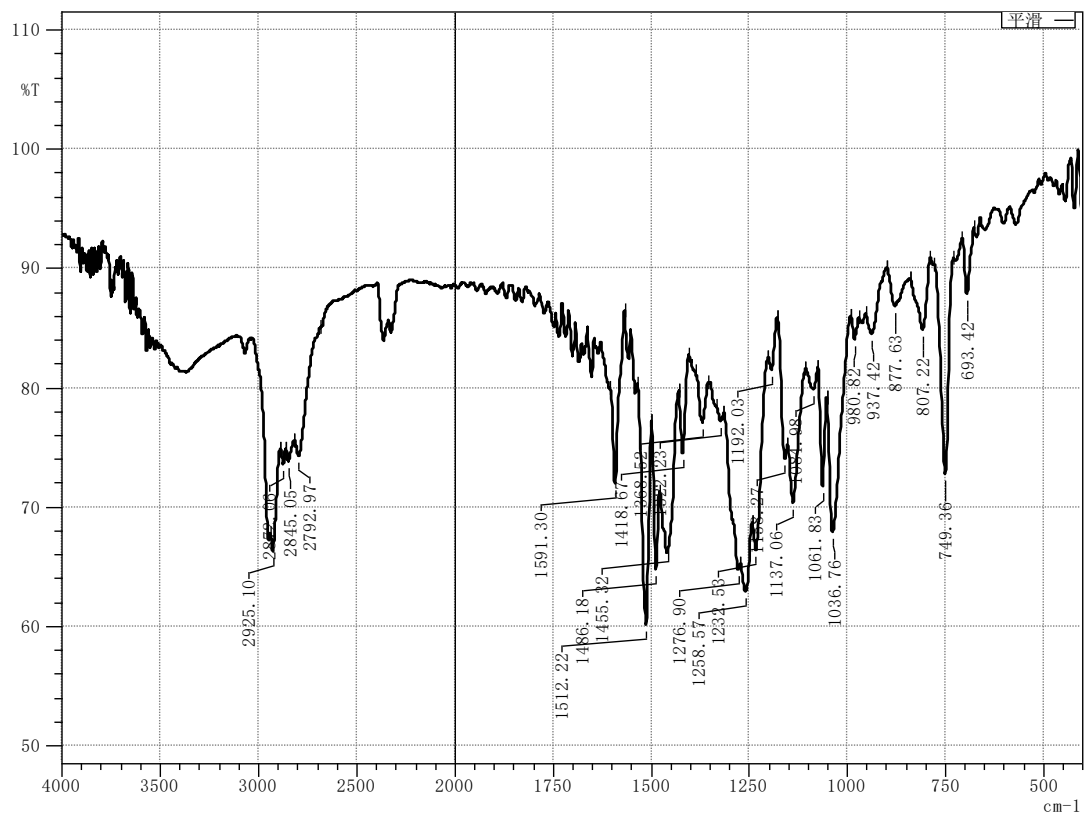
**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04084:**



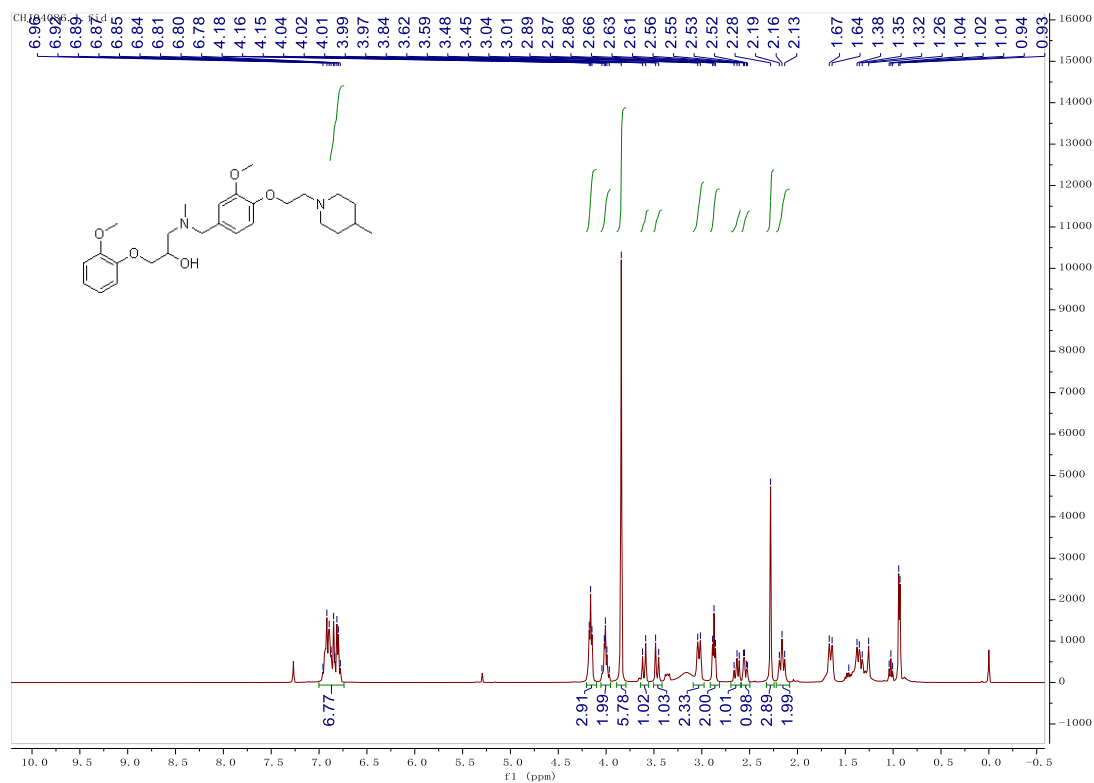


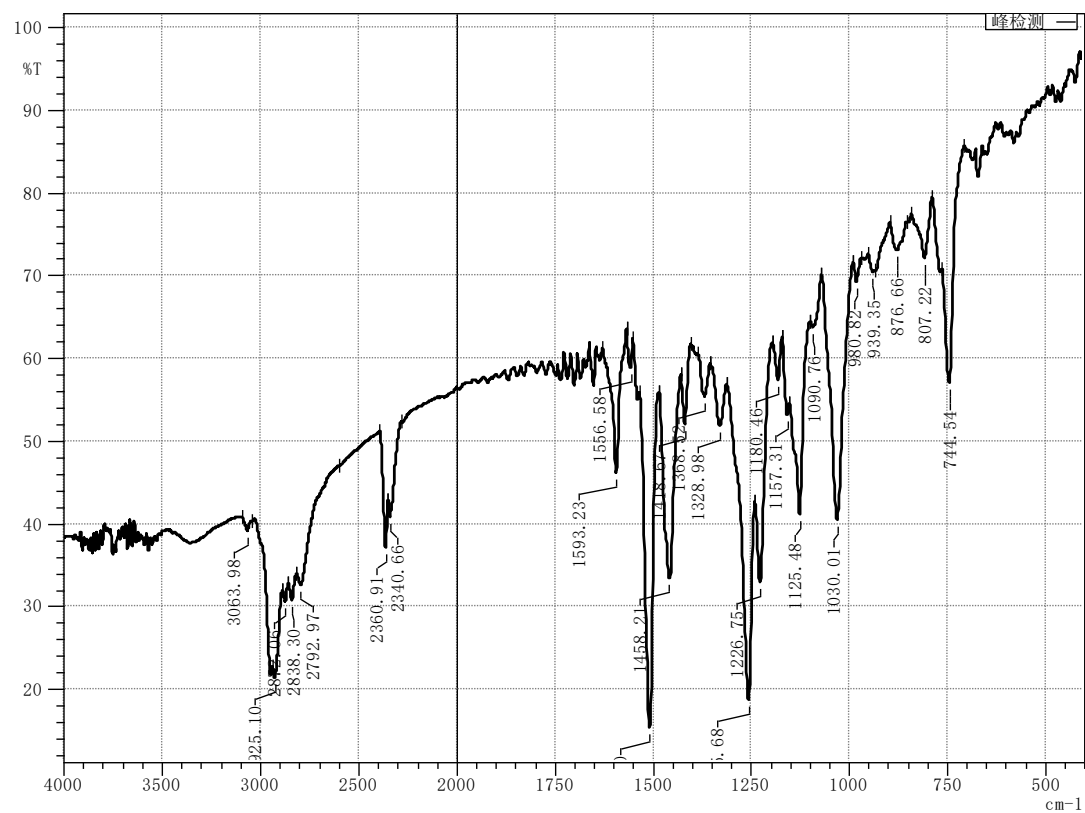
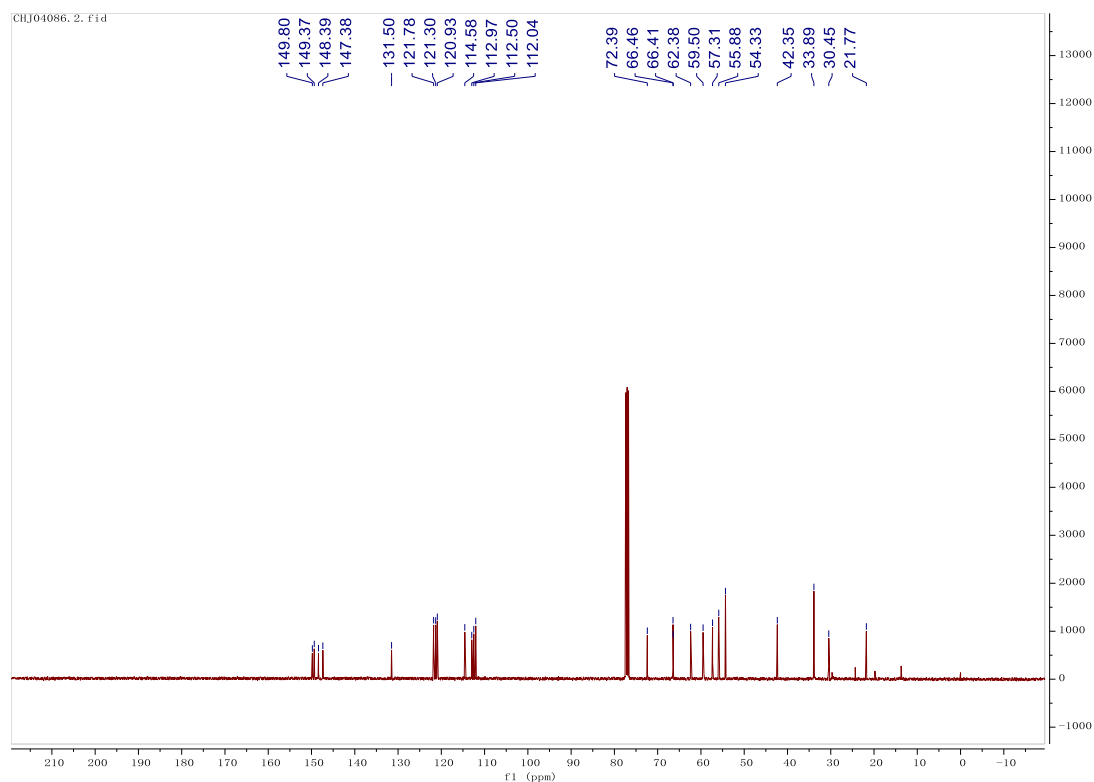
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04085:**





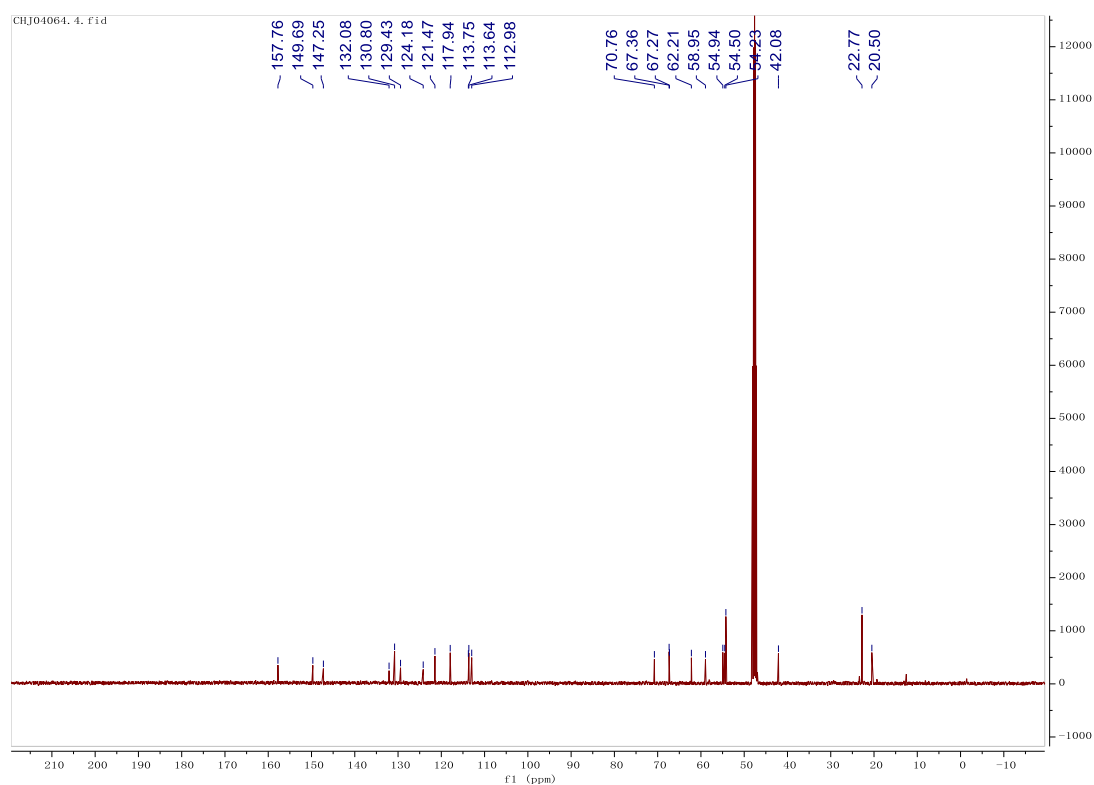
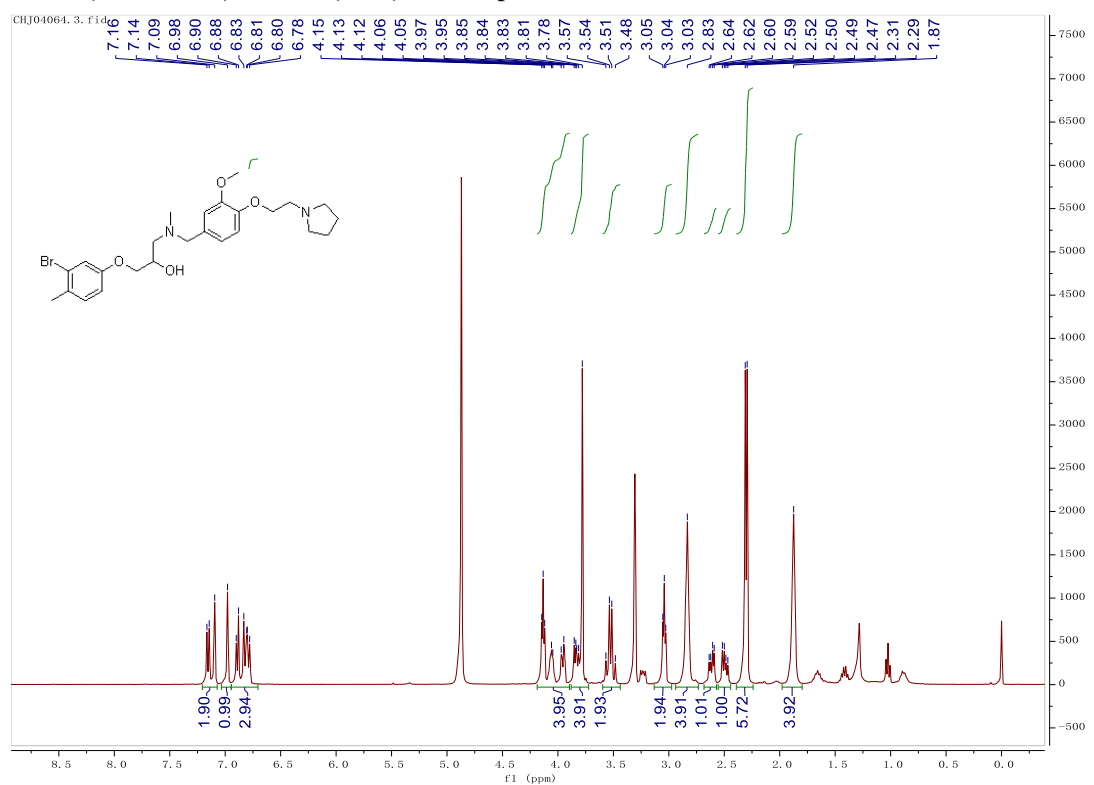
**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04086:**

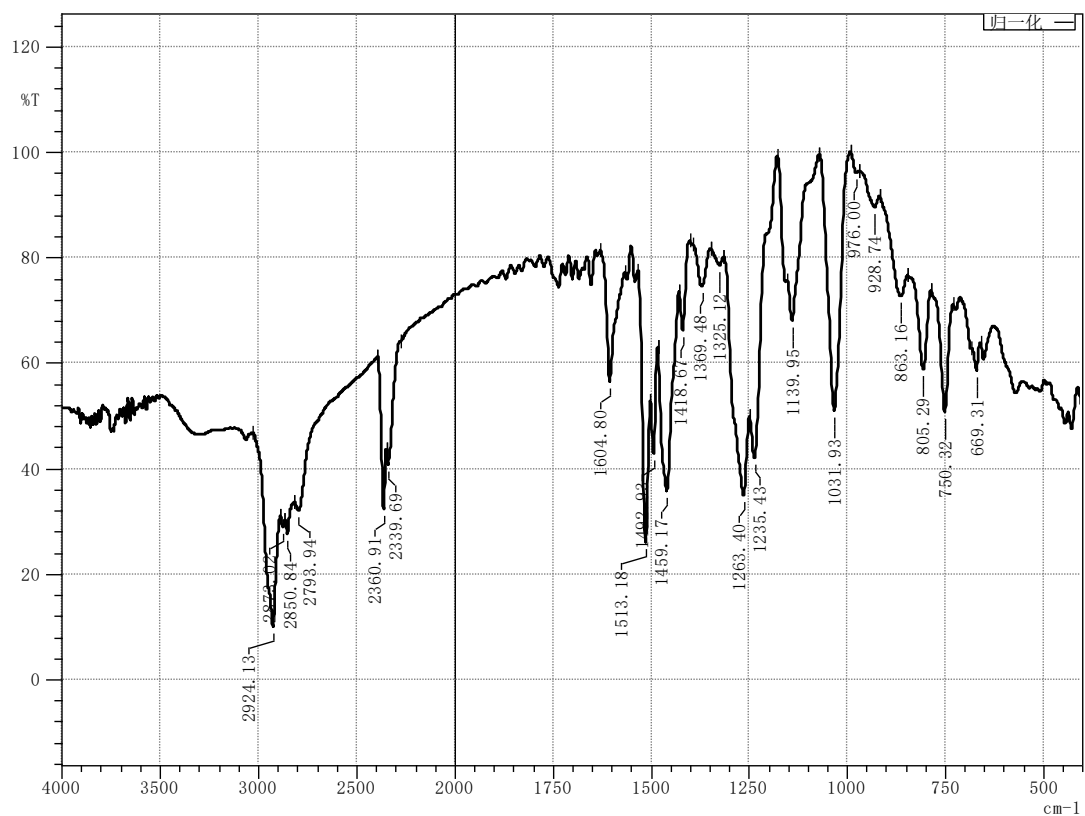




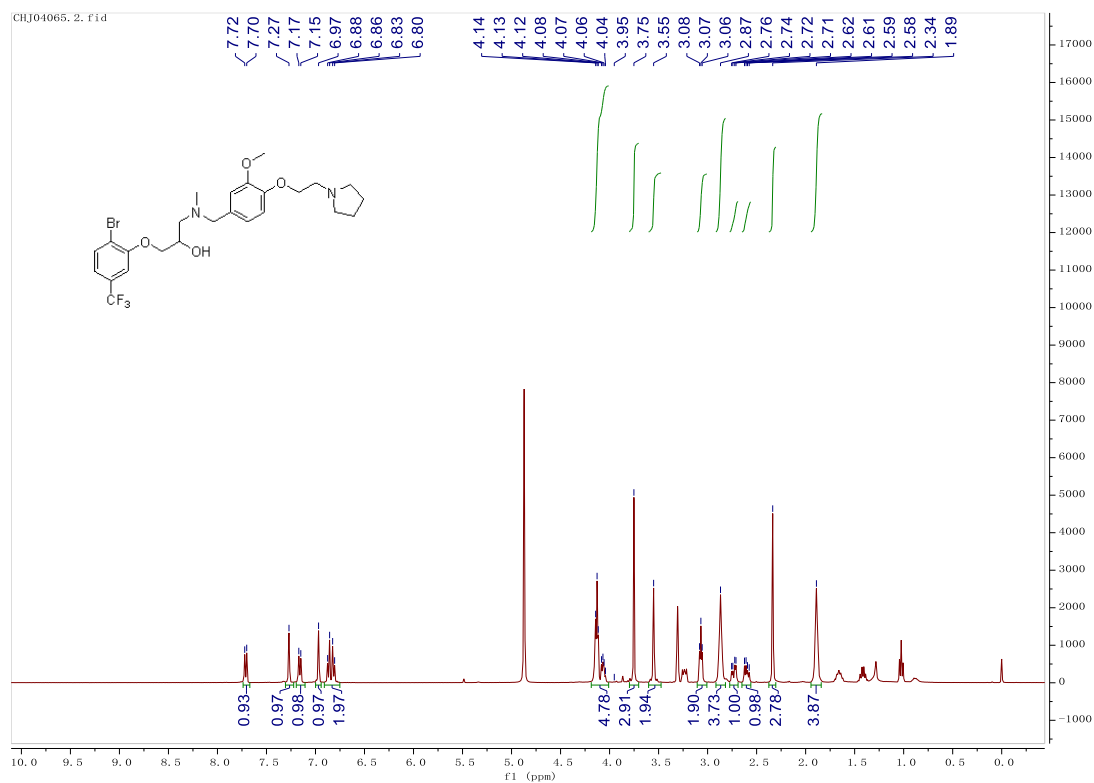


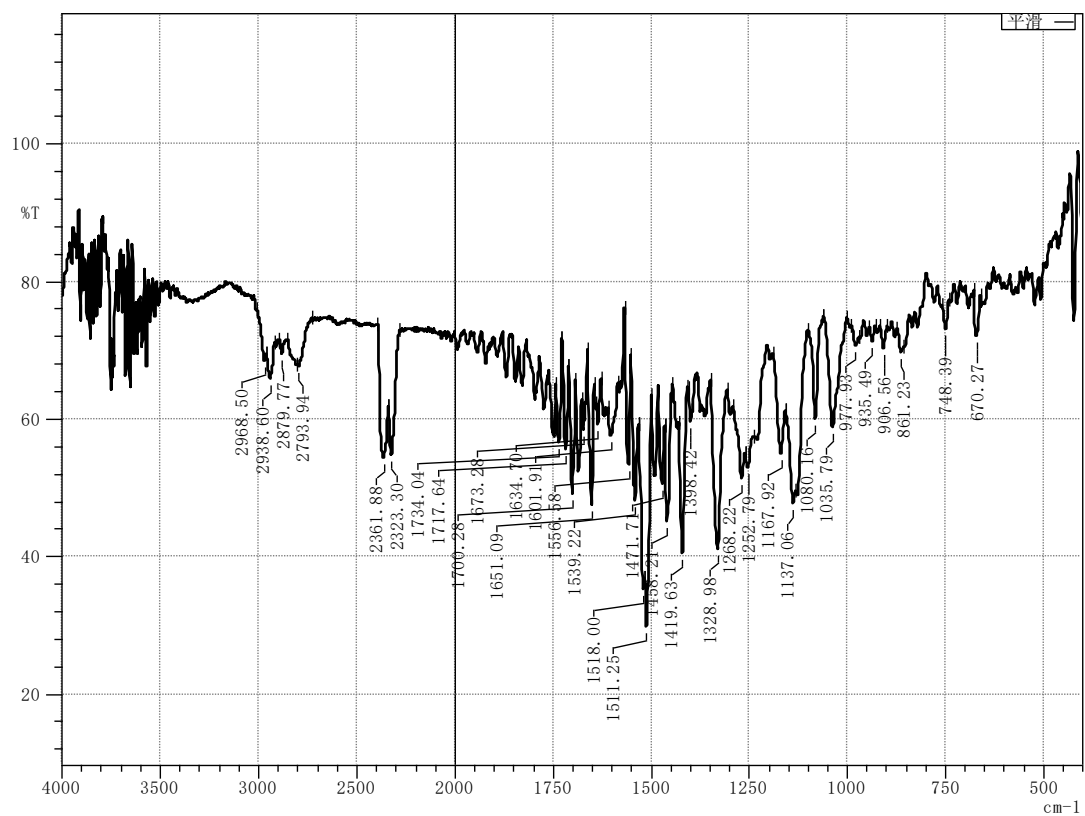
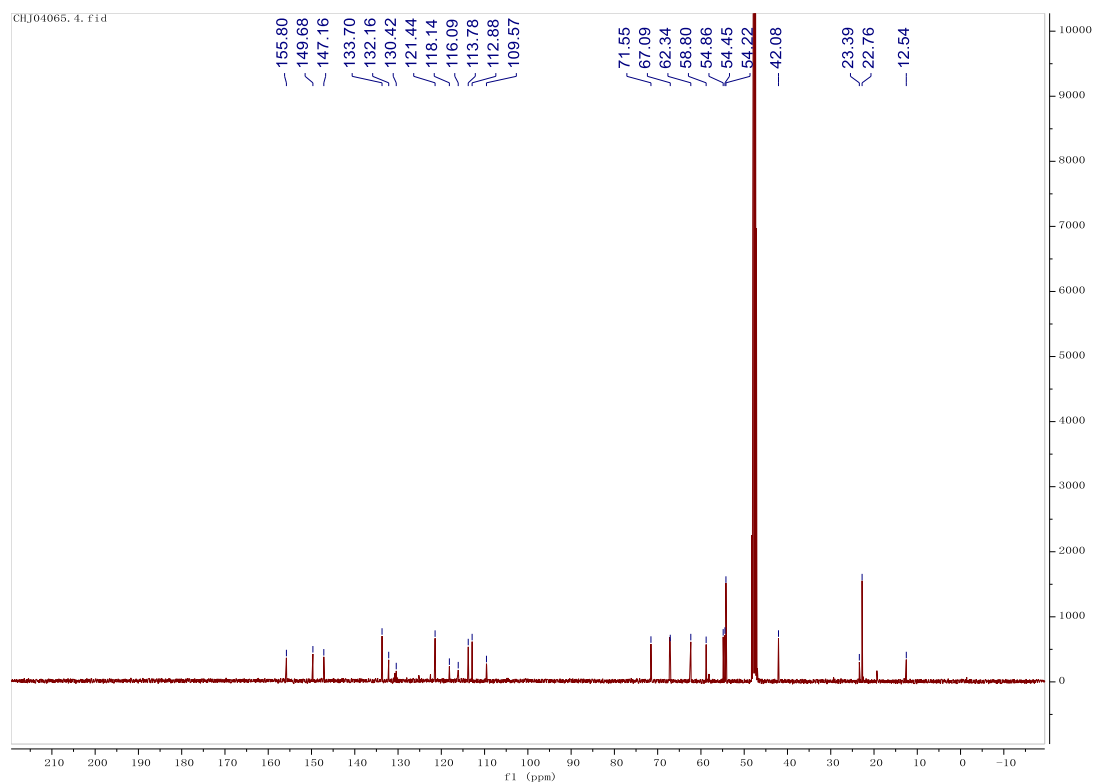
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04064:**



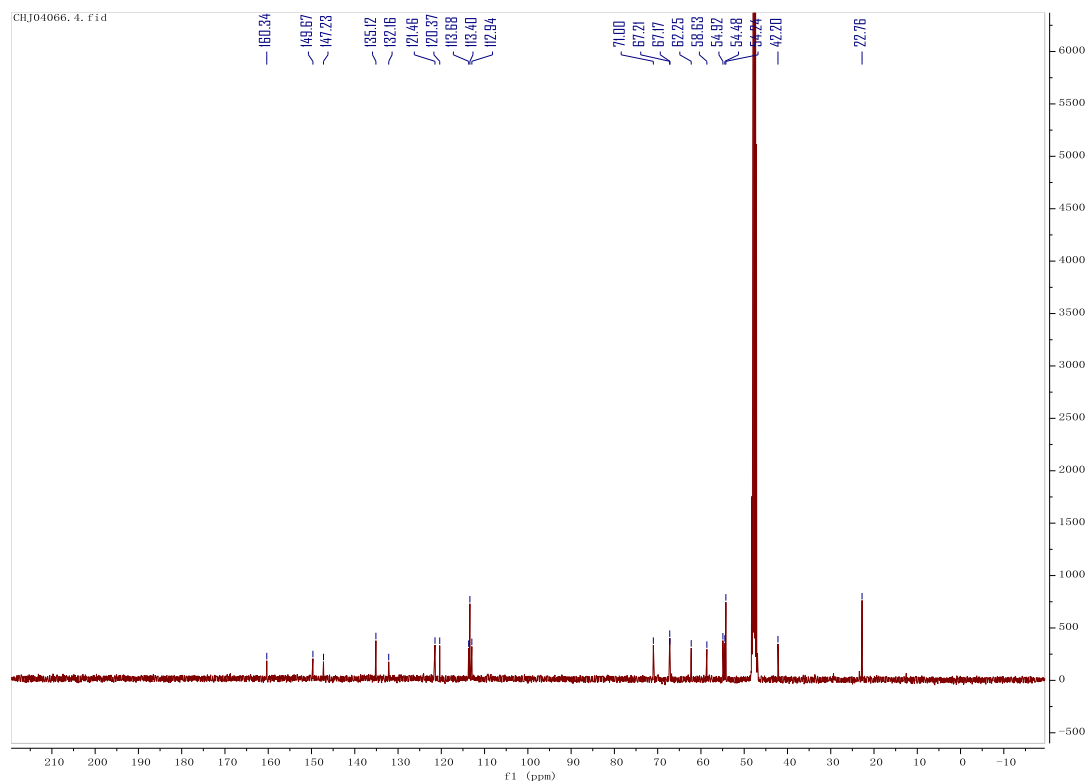
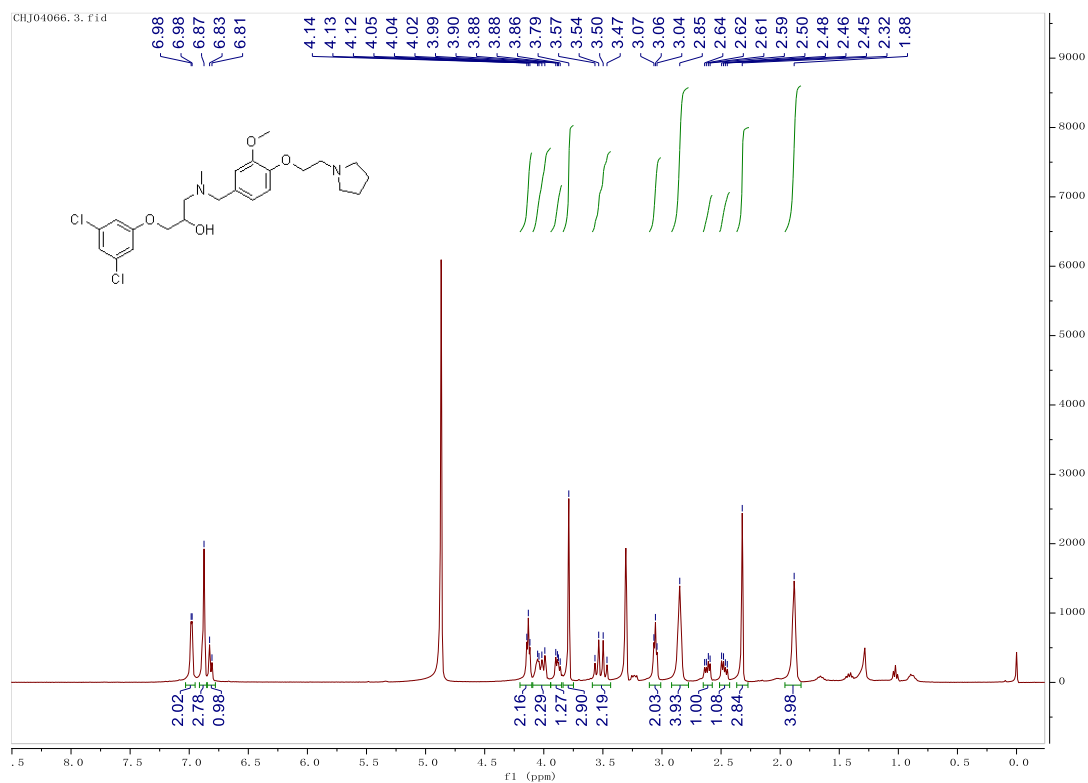


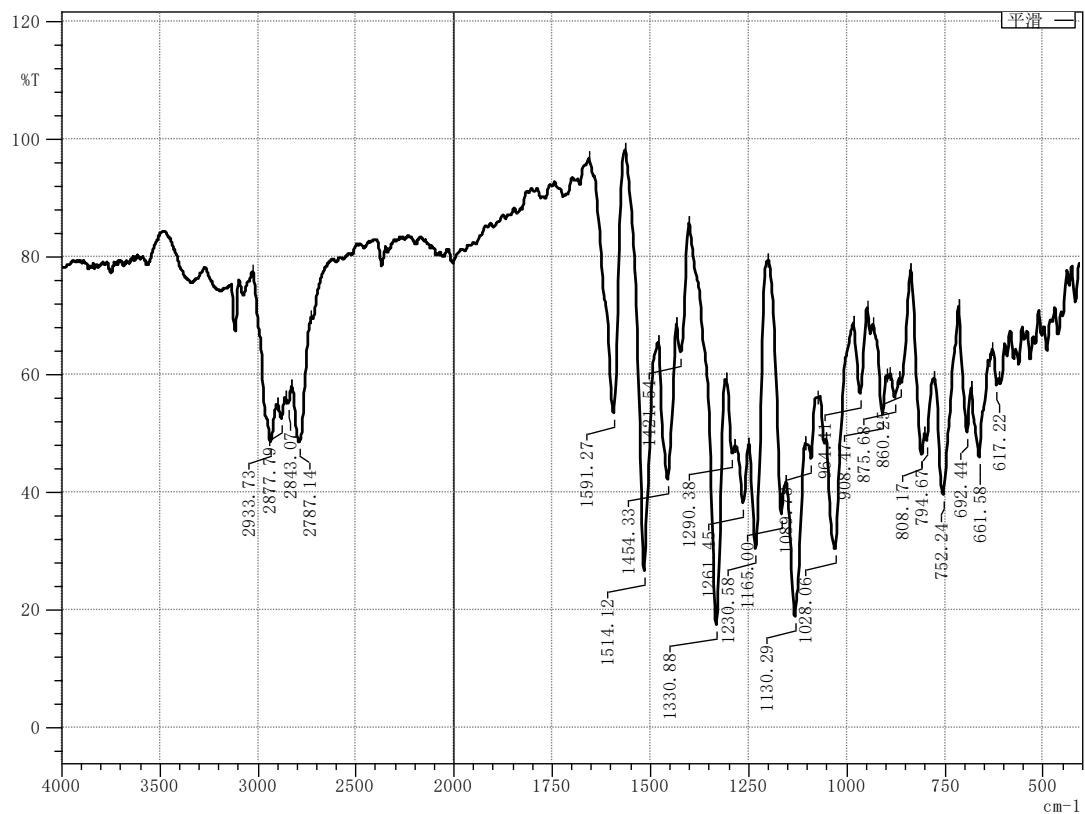
### NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04065:



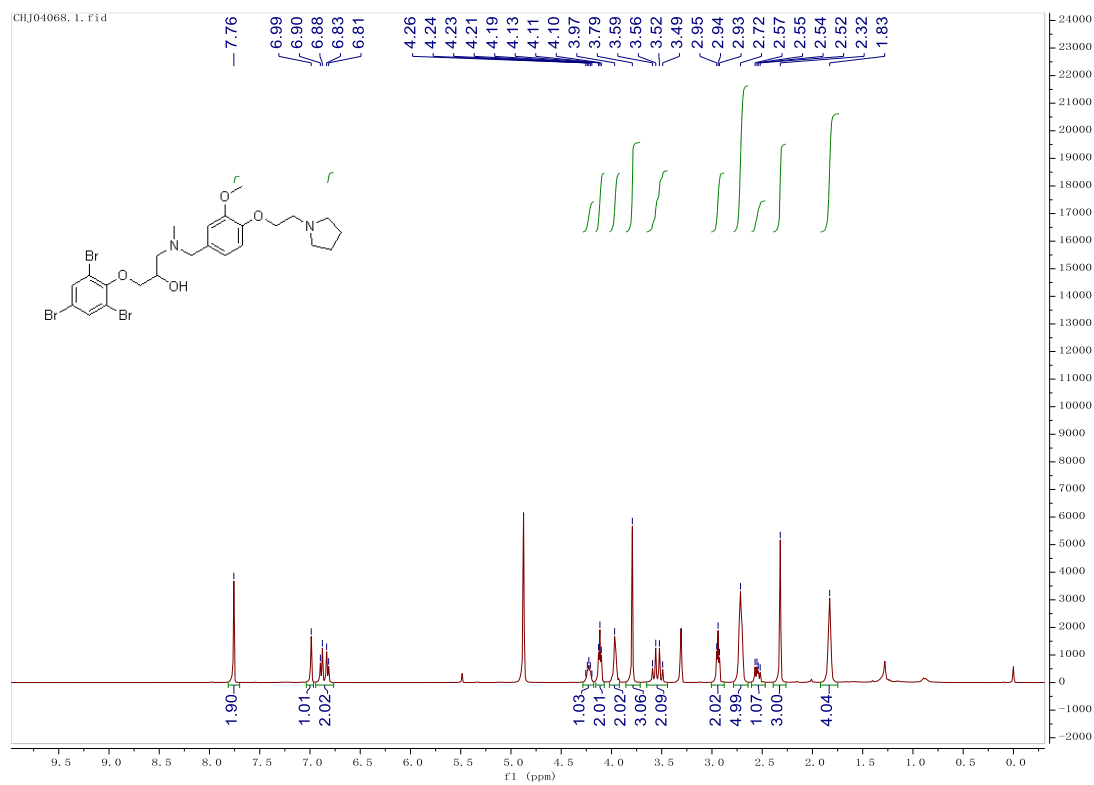


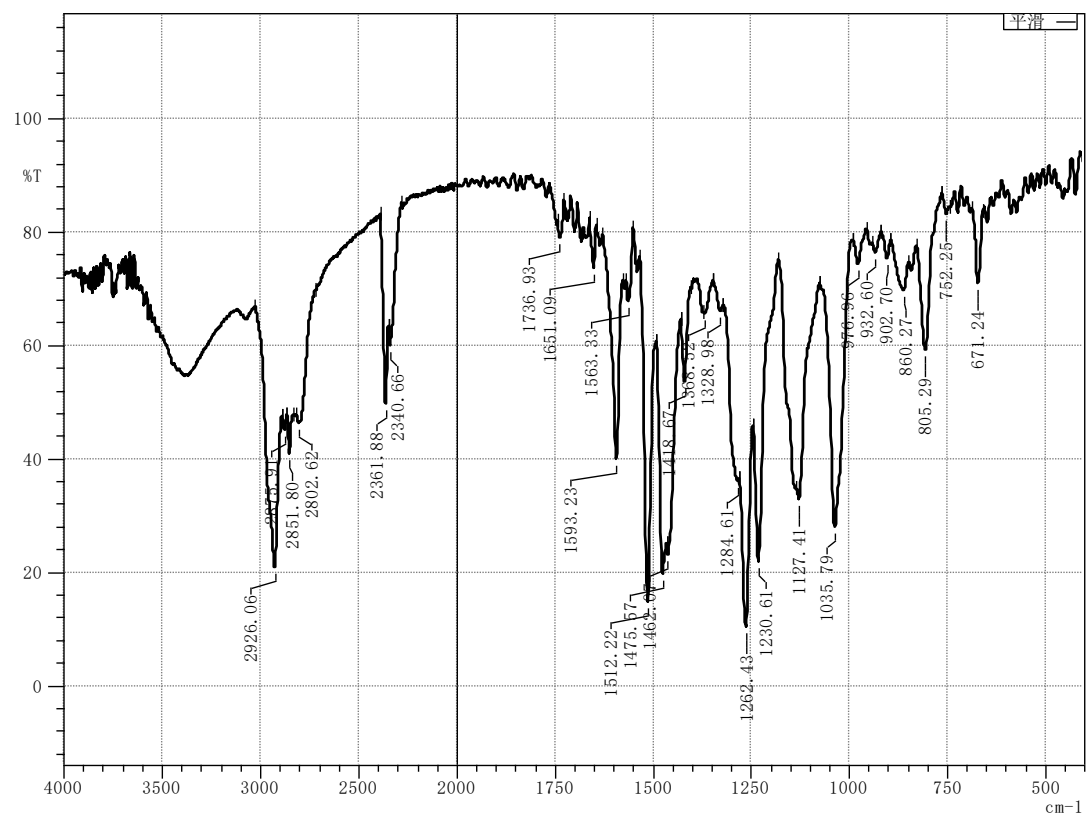
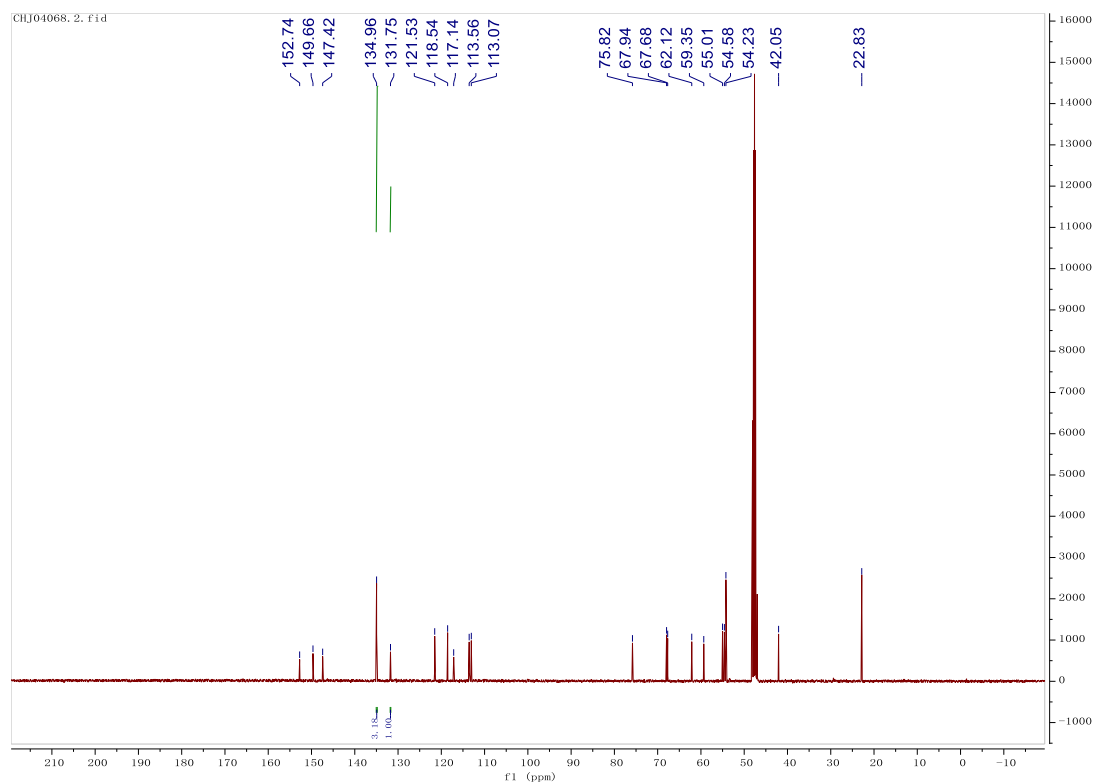
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04066:**



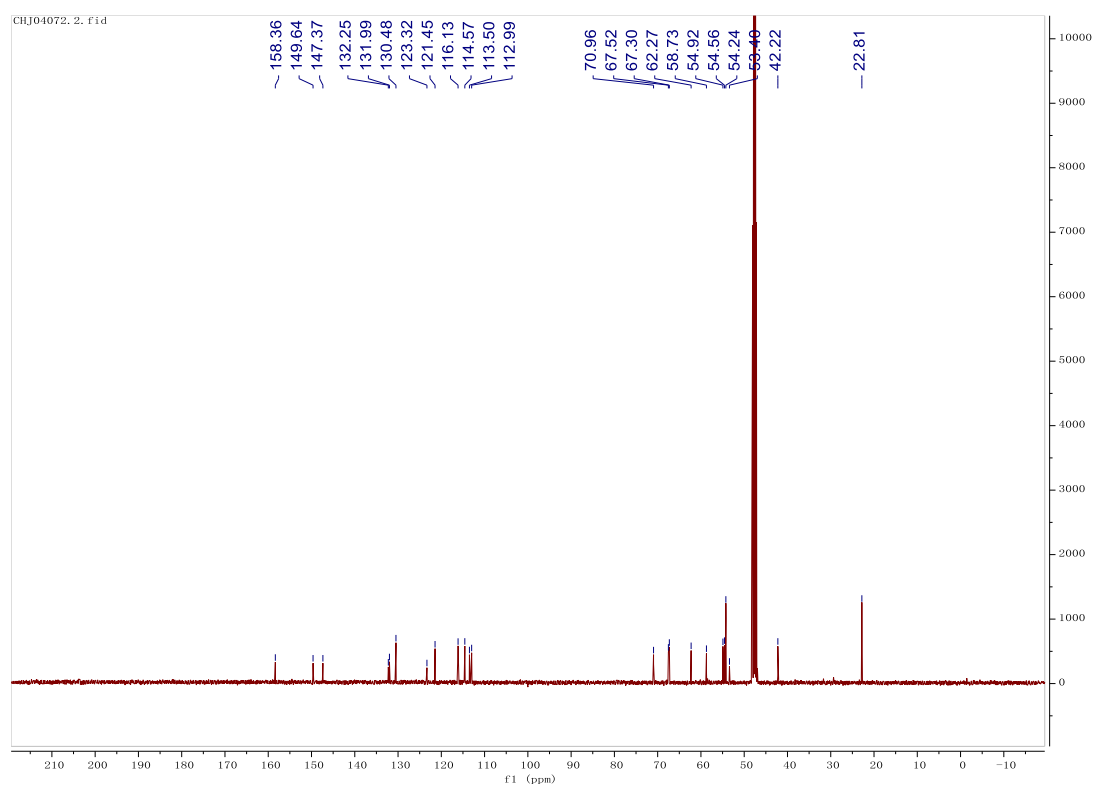
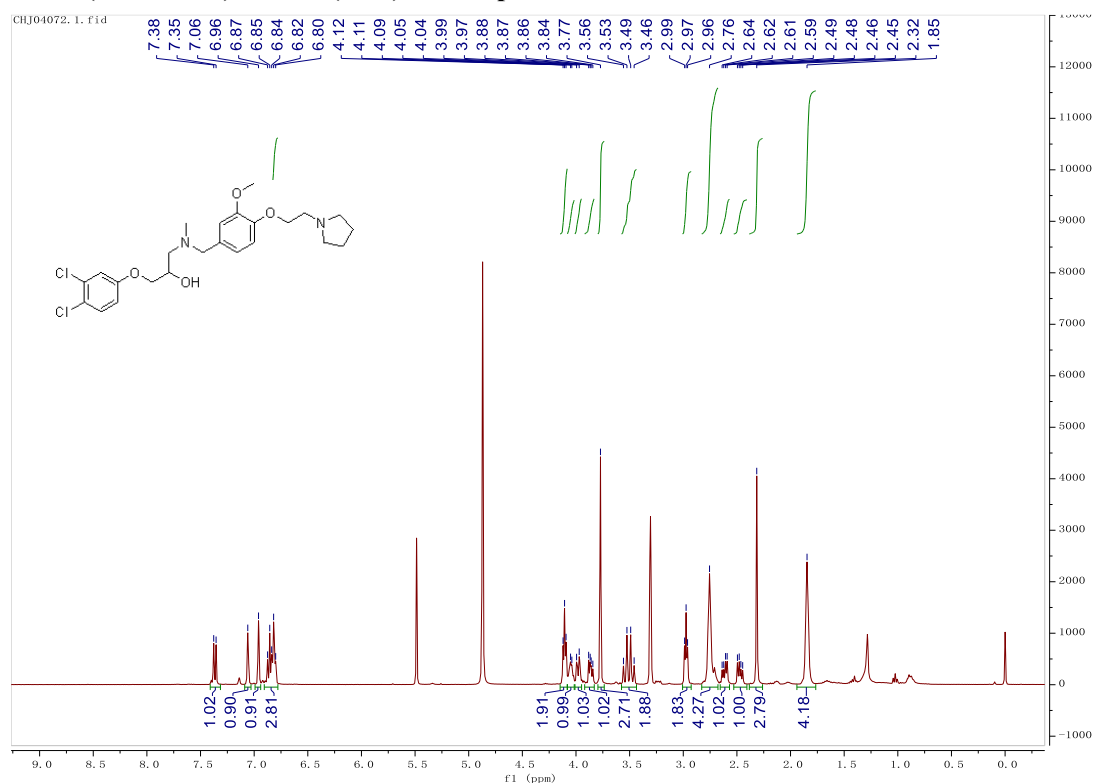


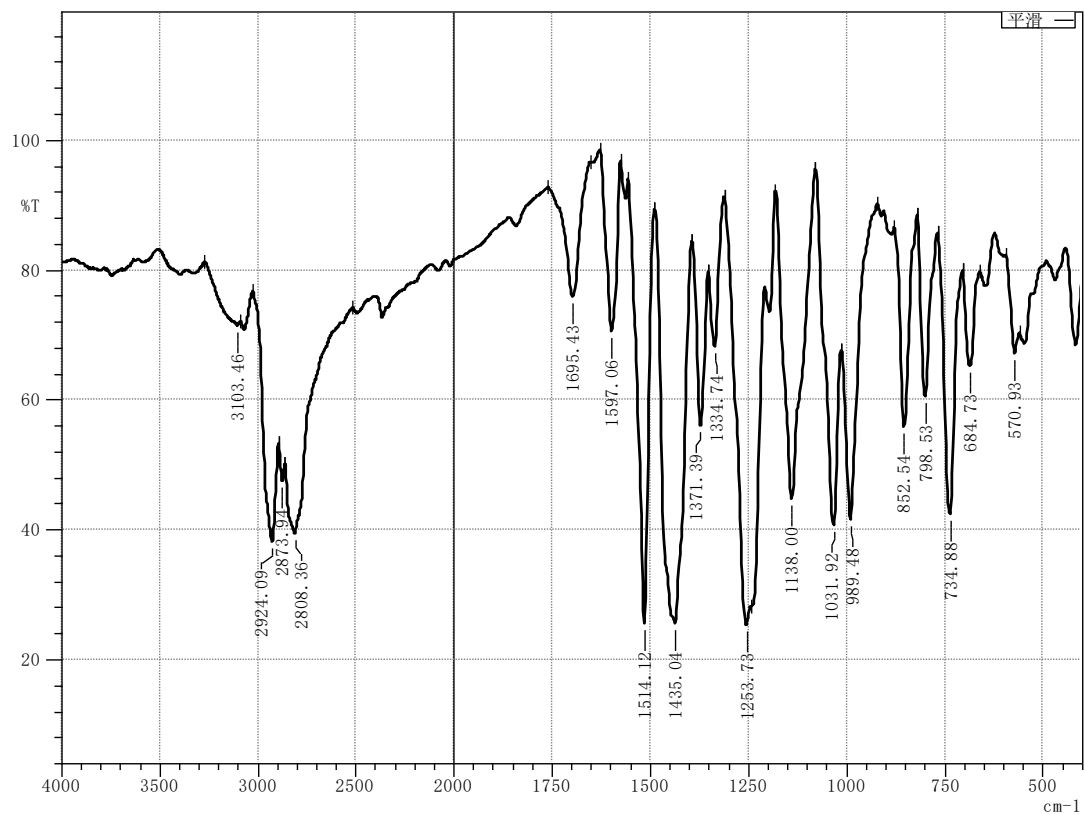
**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04068:**



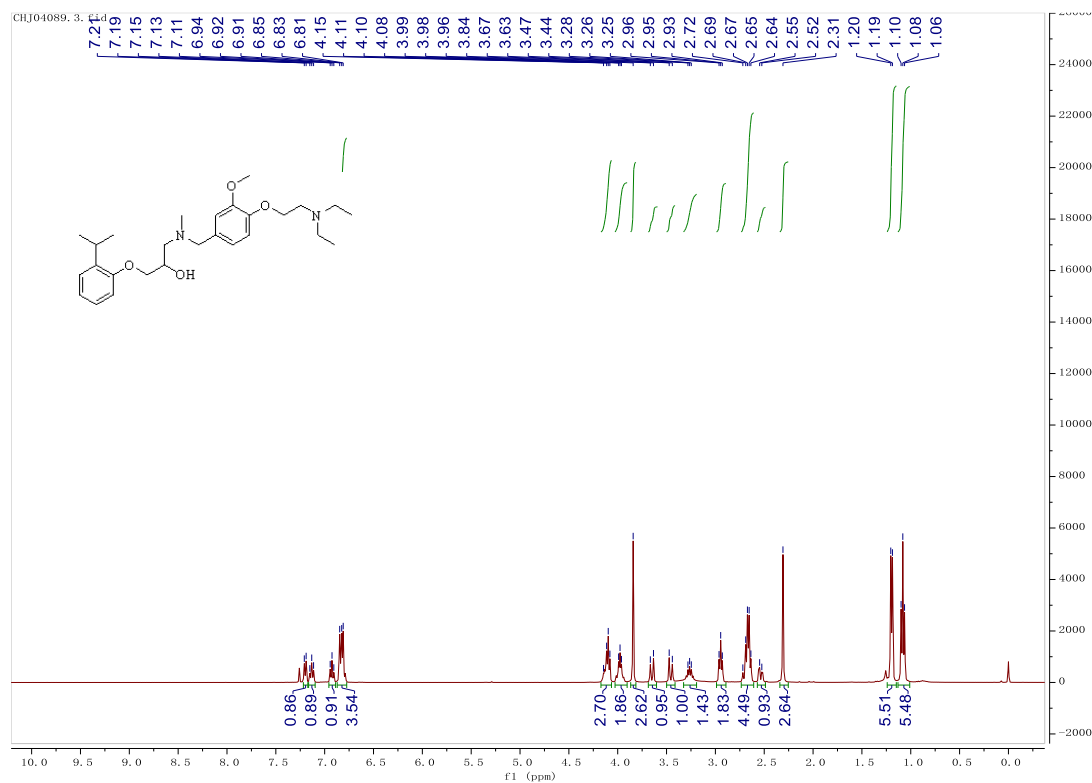


# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04072:**

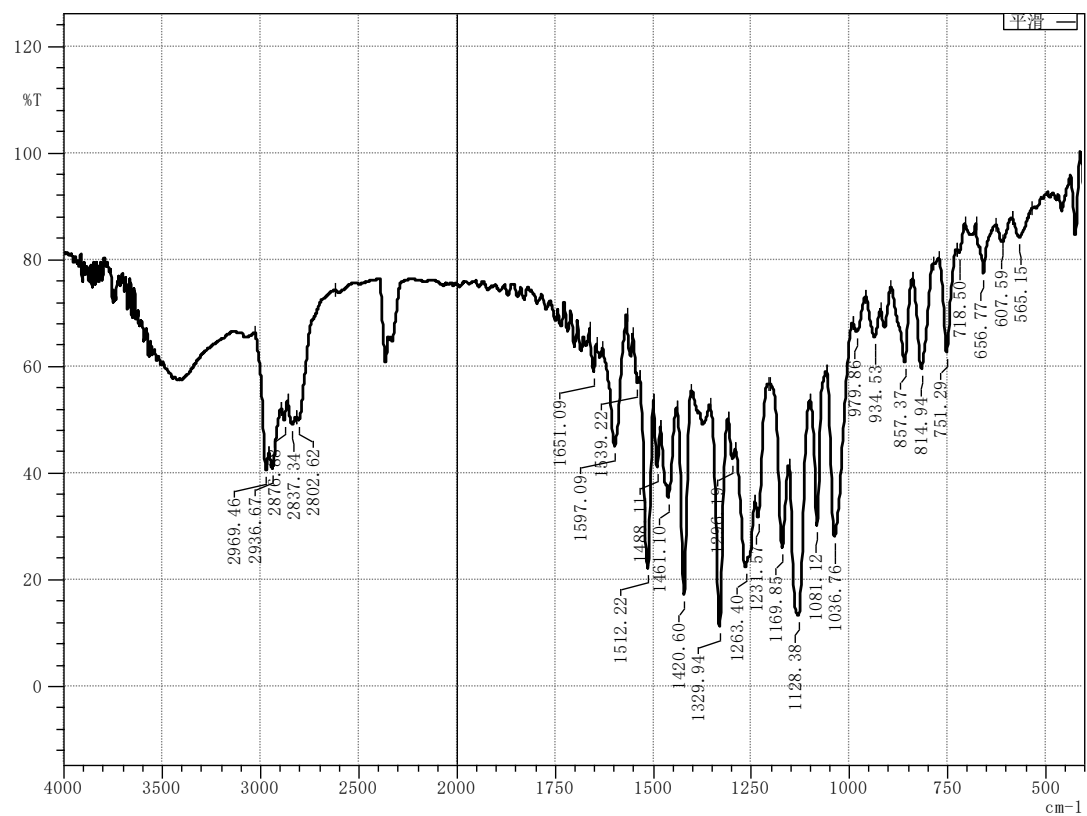
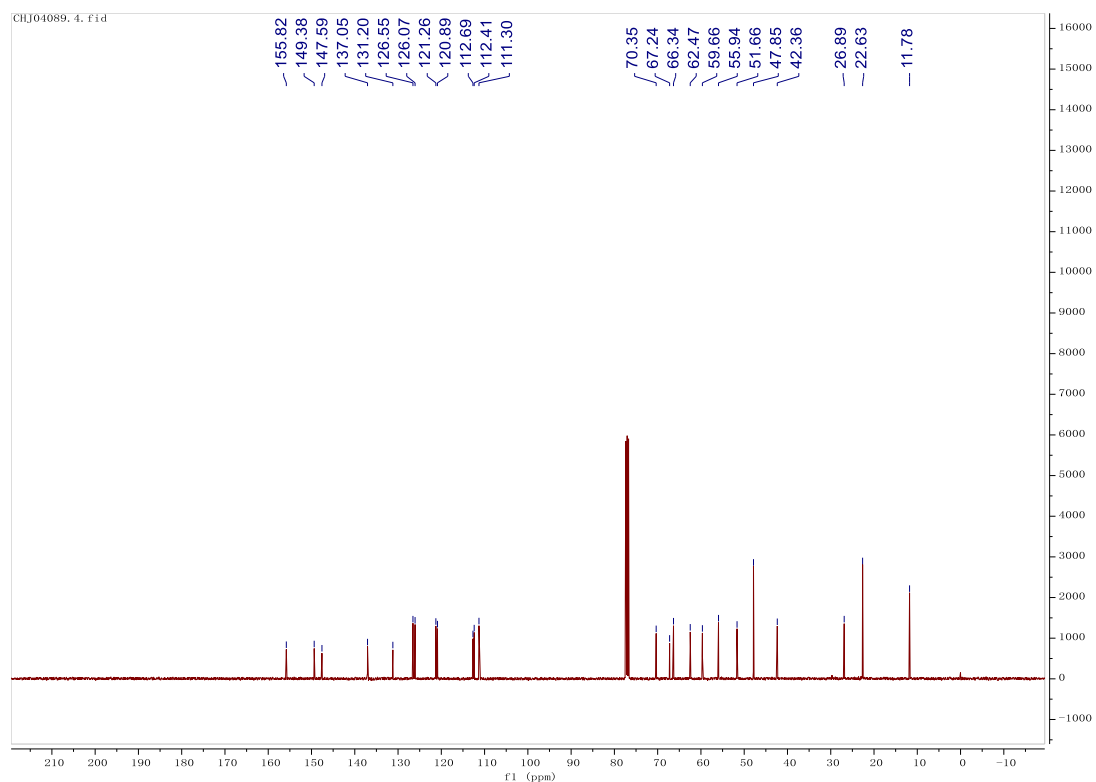




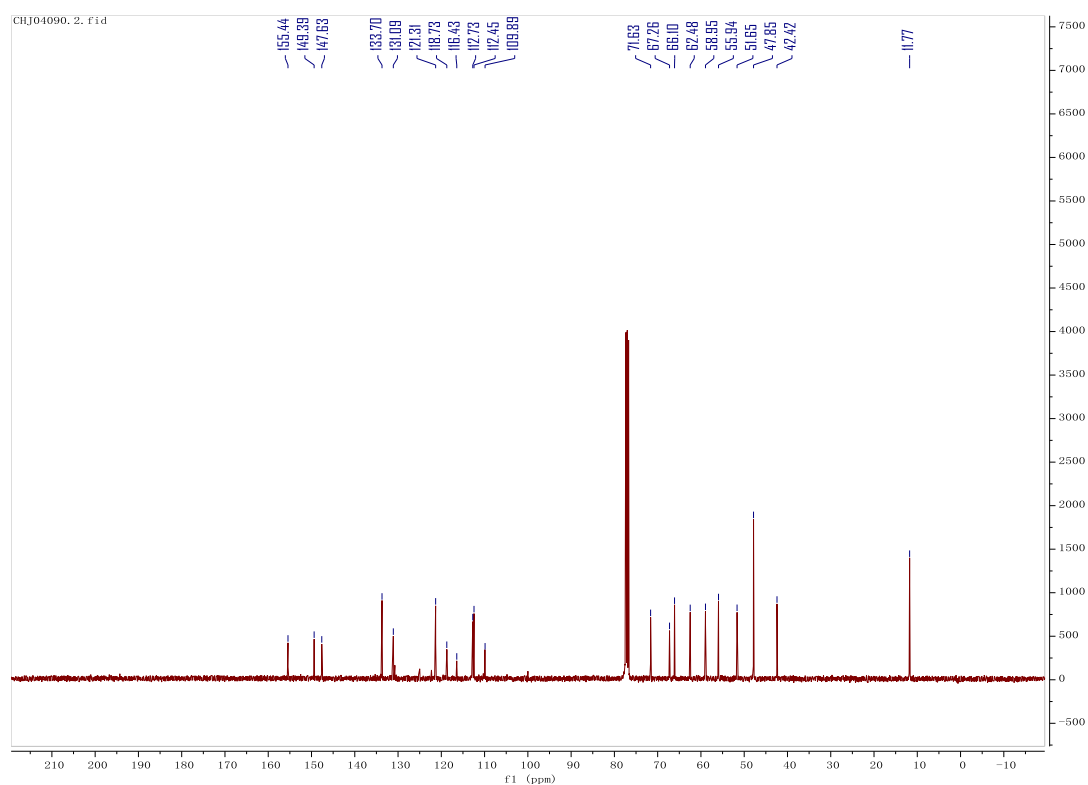
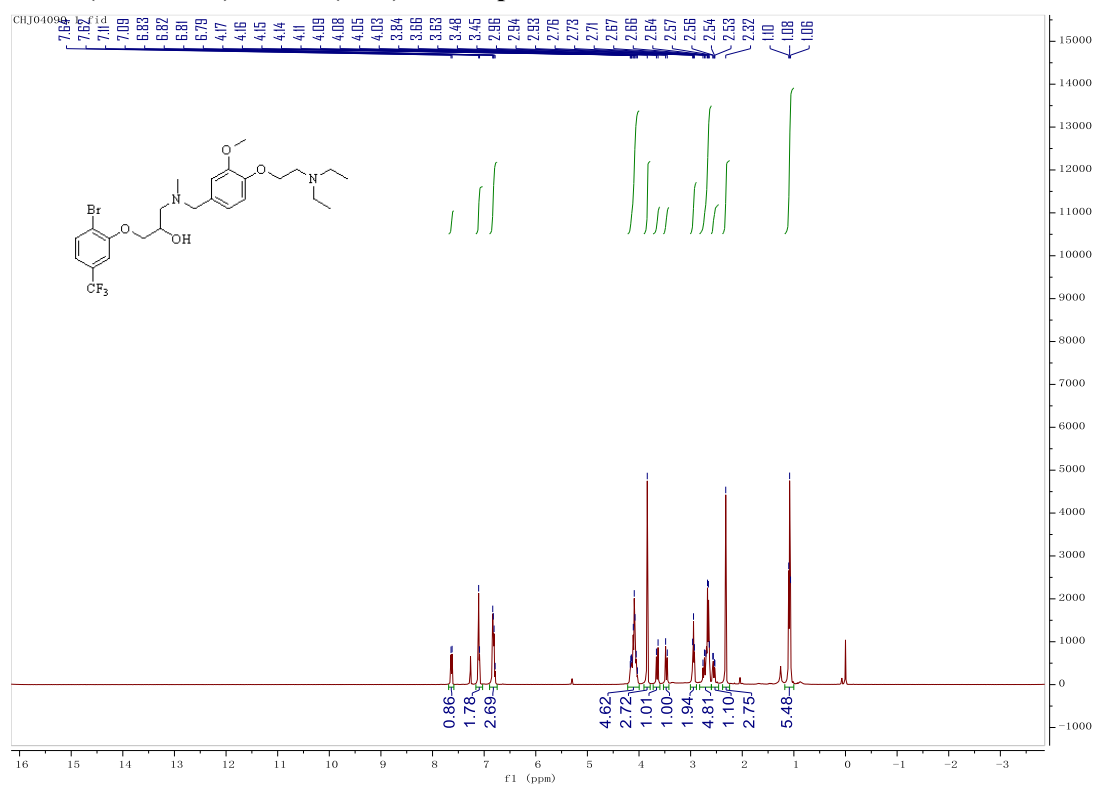
**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04089:**

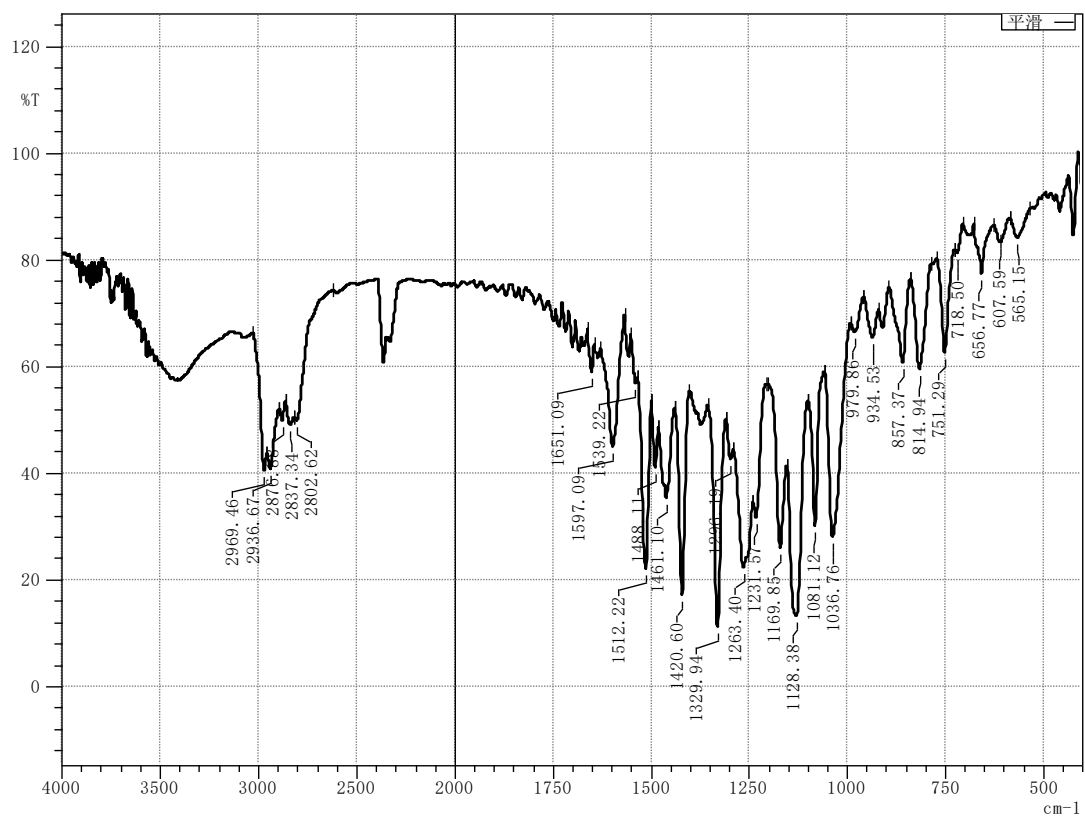




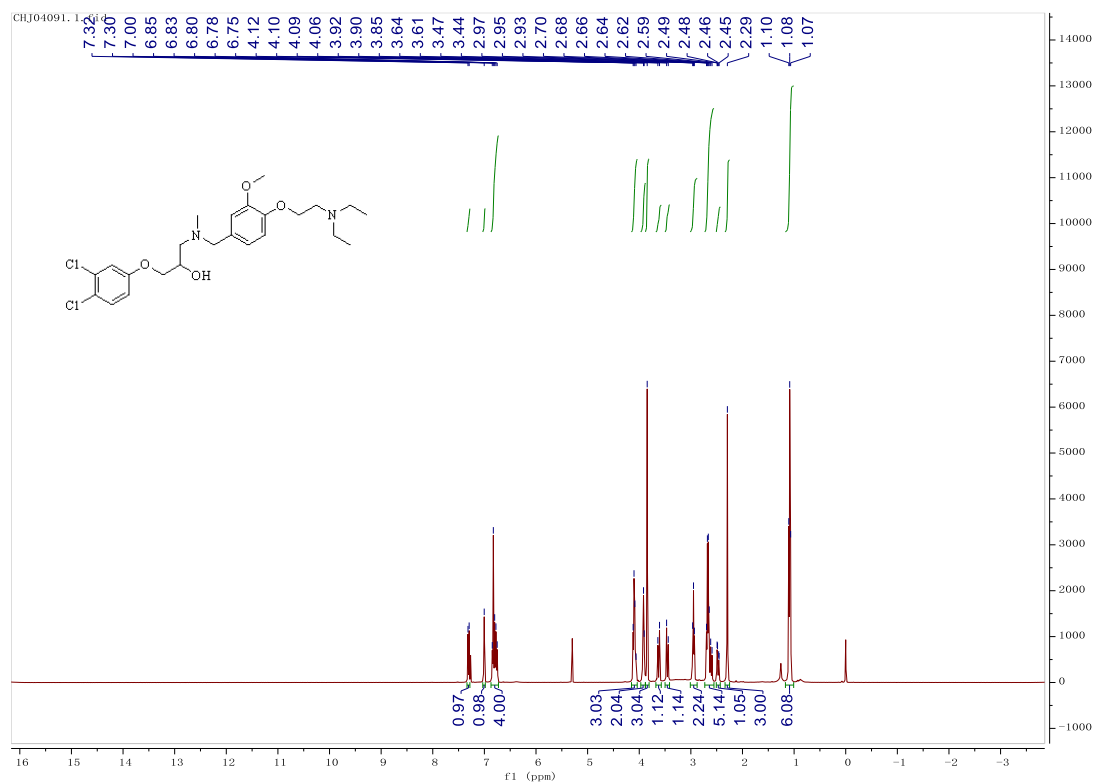


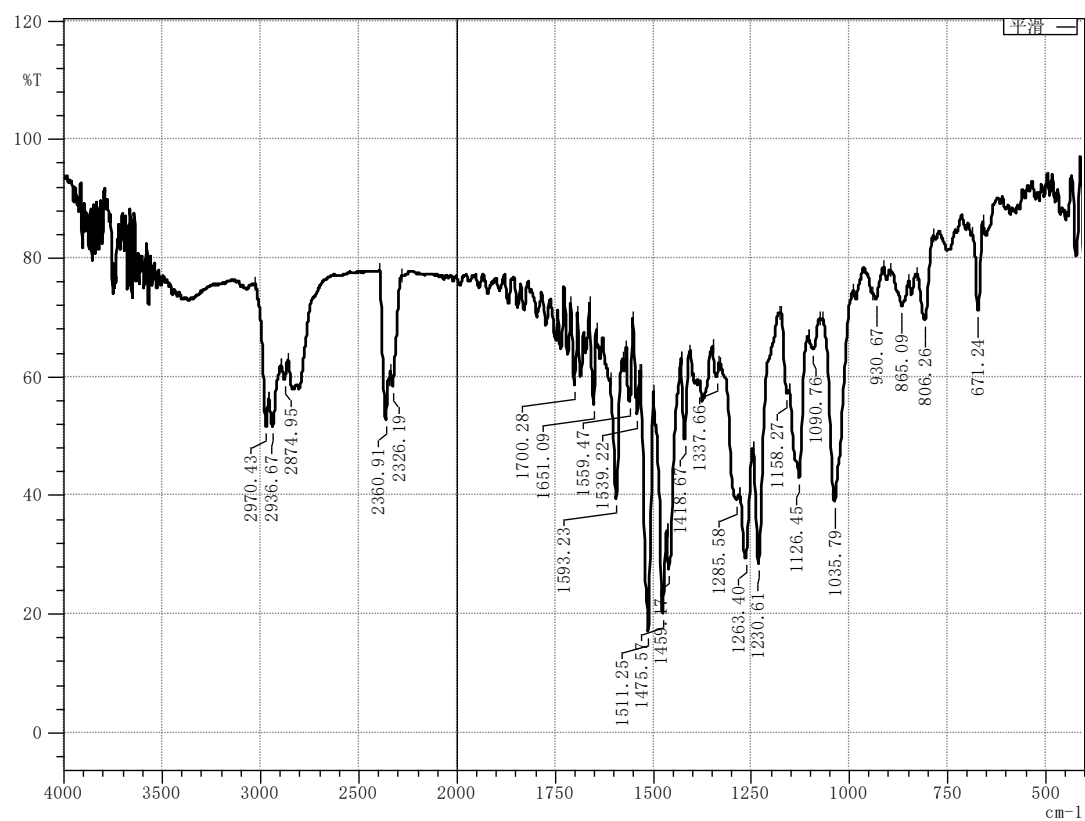
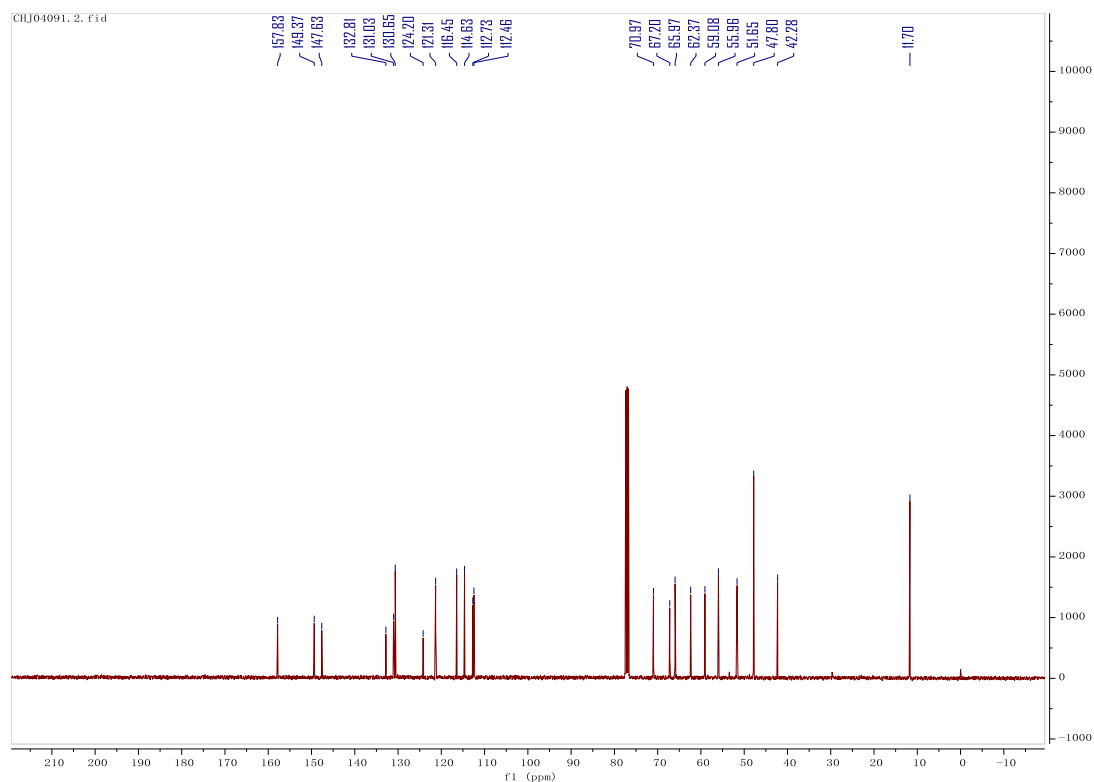
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04090:**



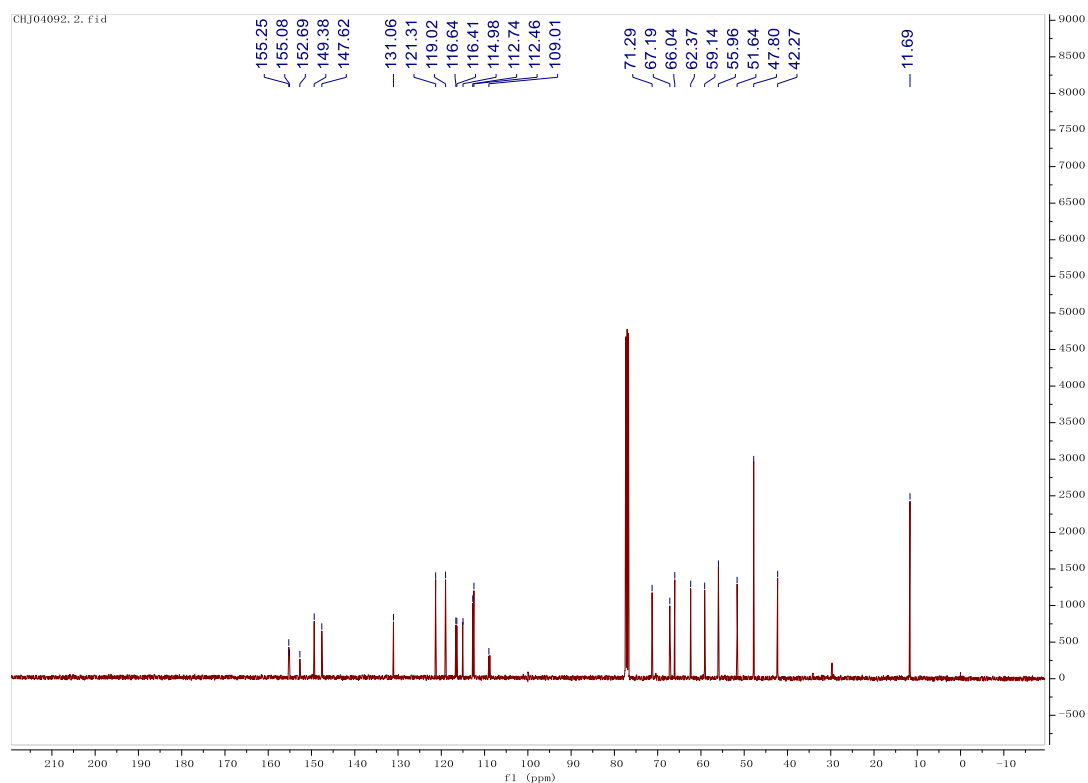
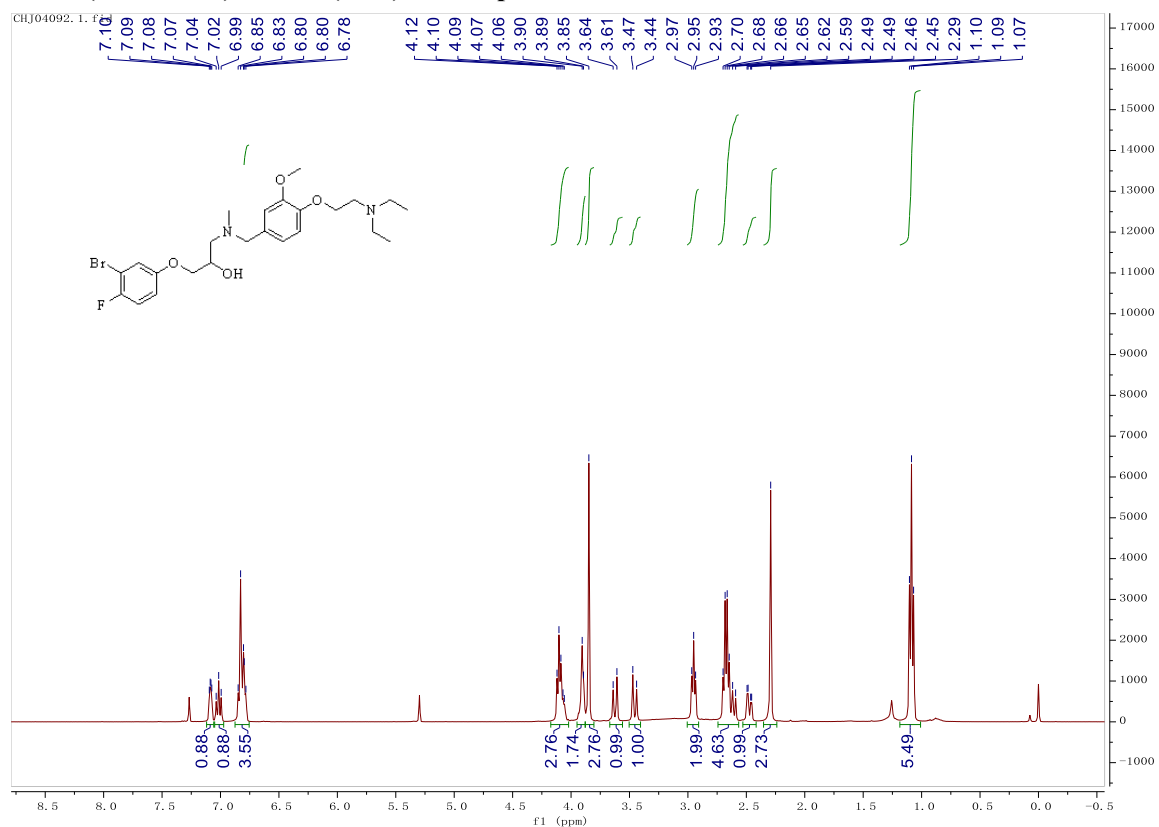


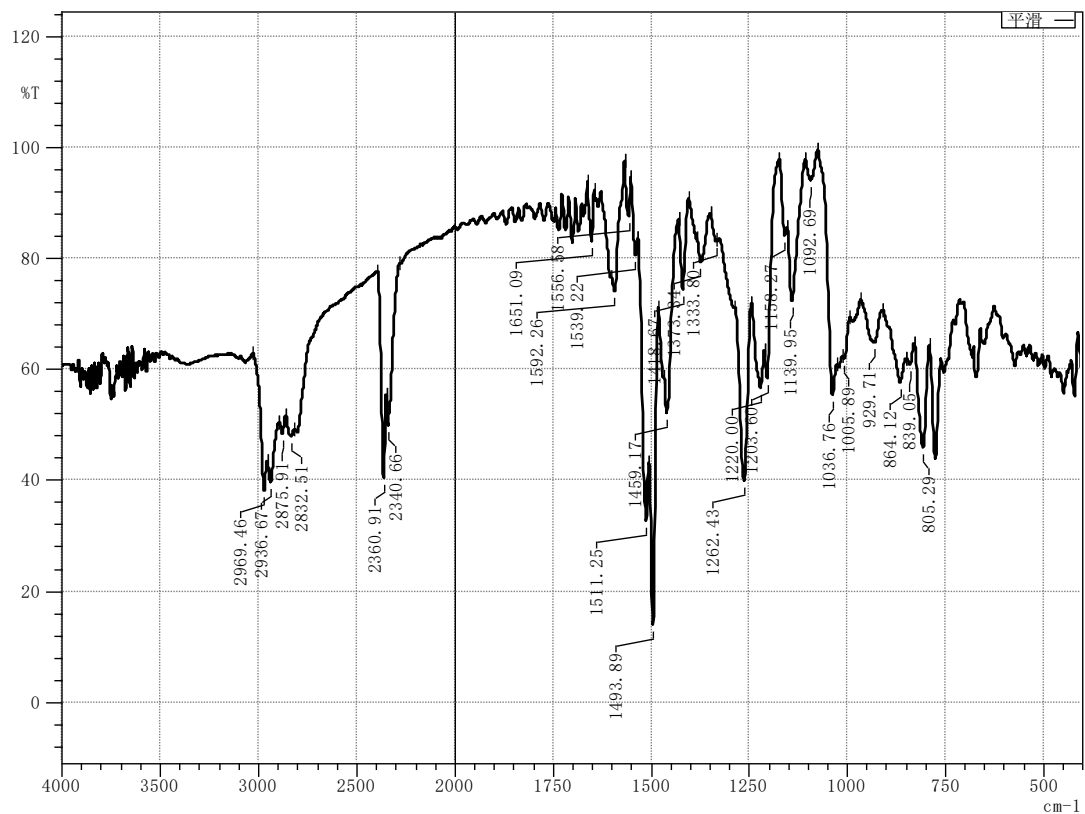
**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04091:**



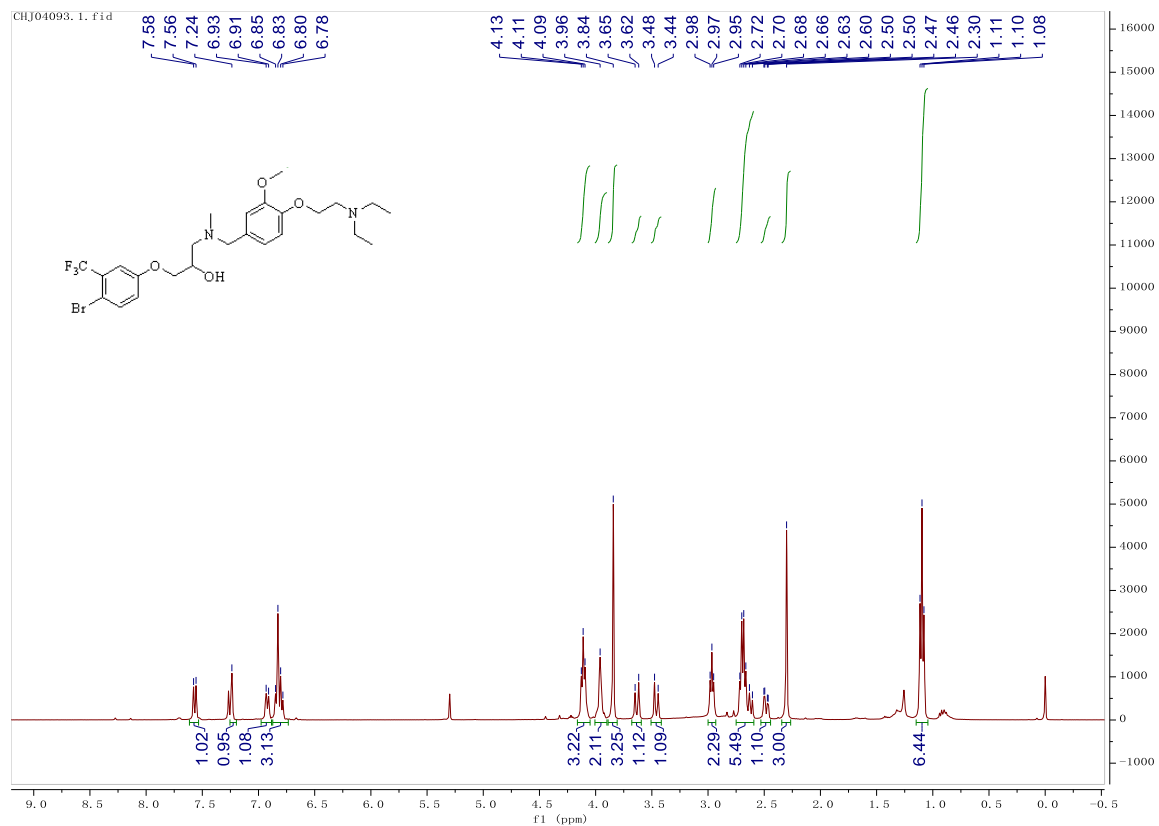


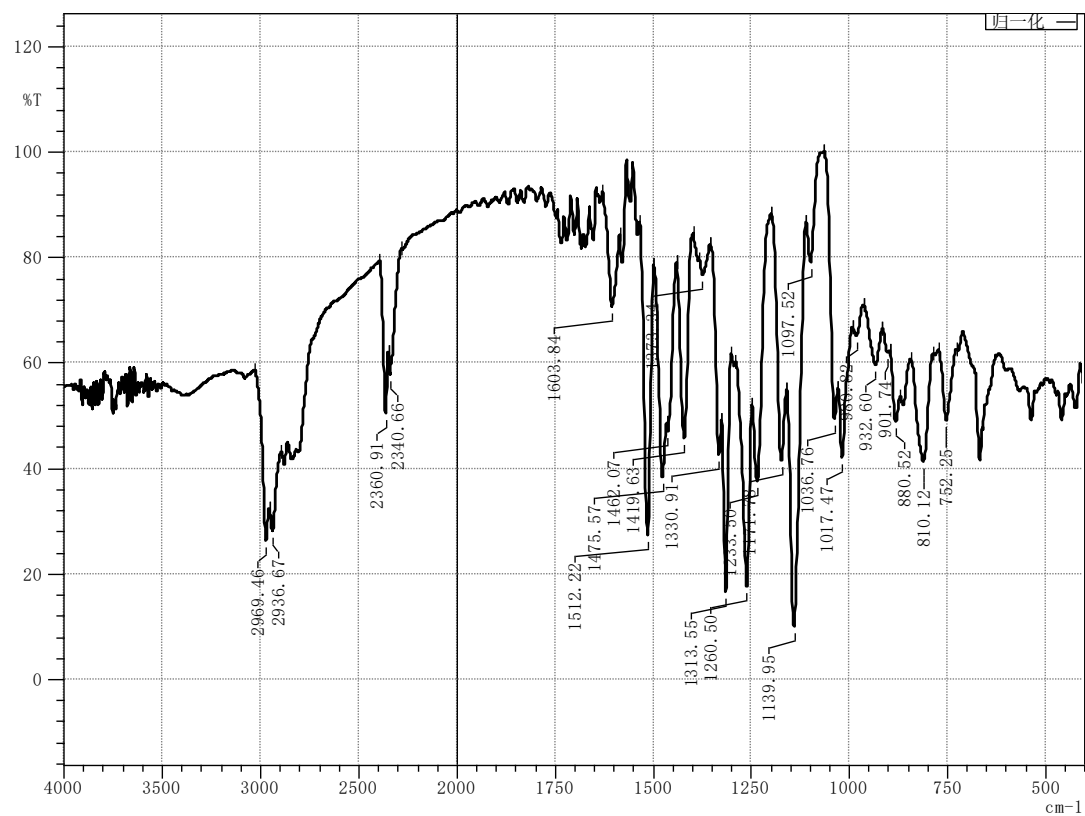
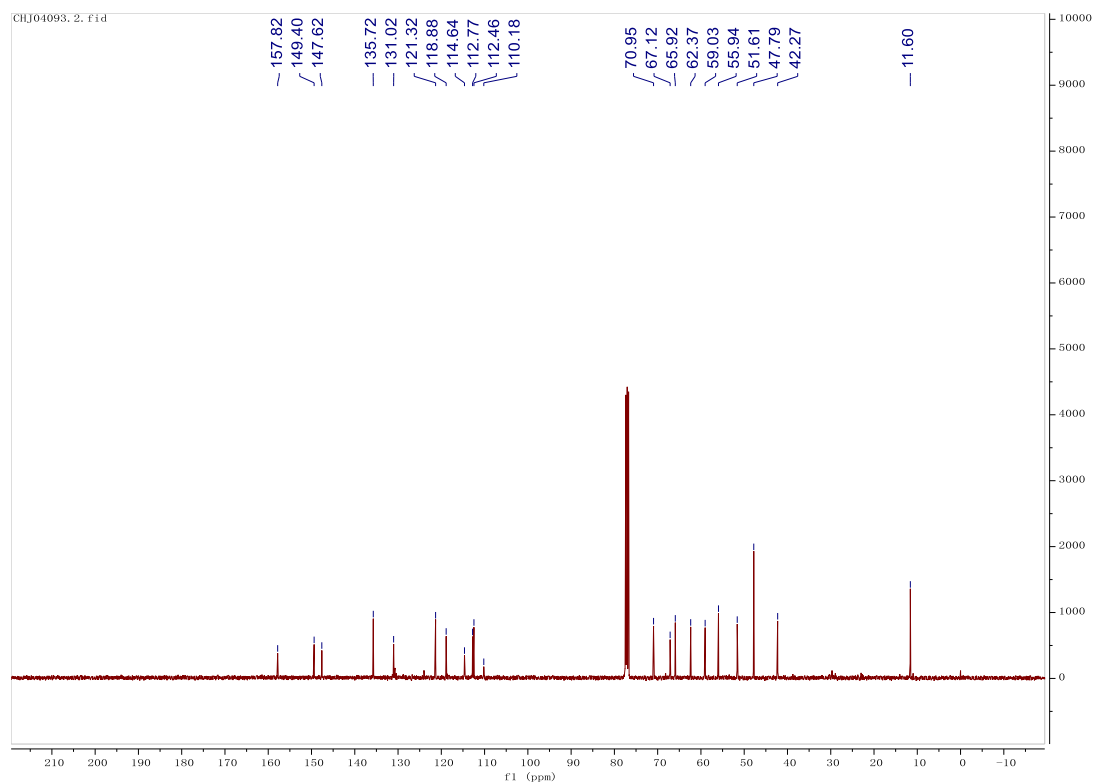
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04092:**



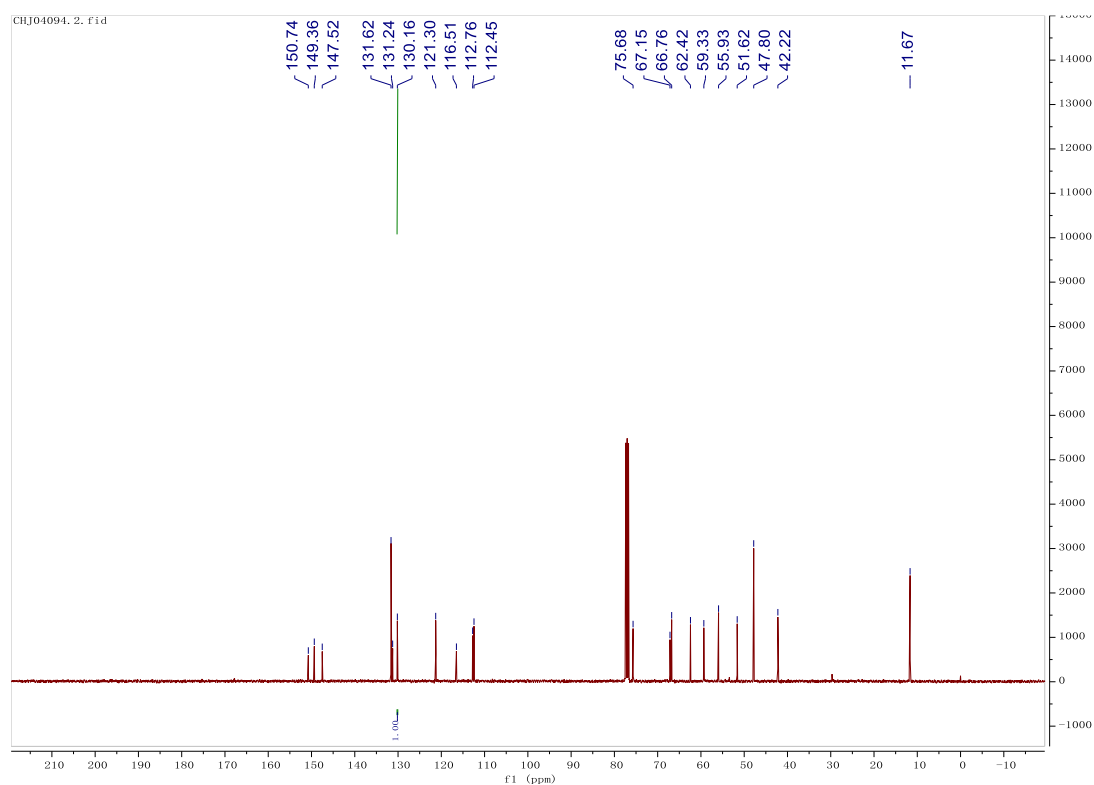
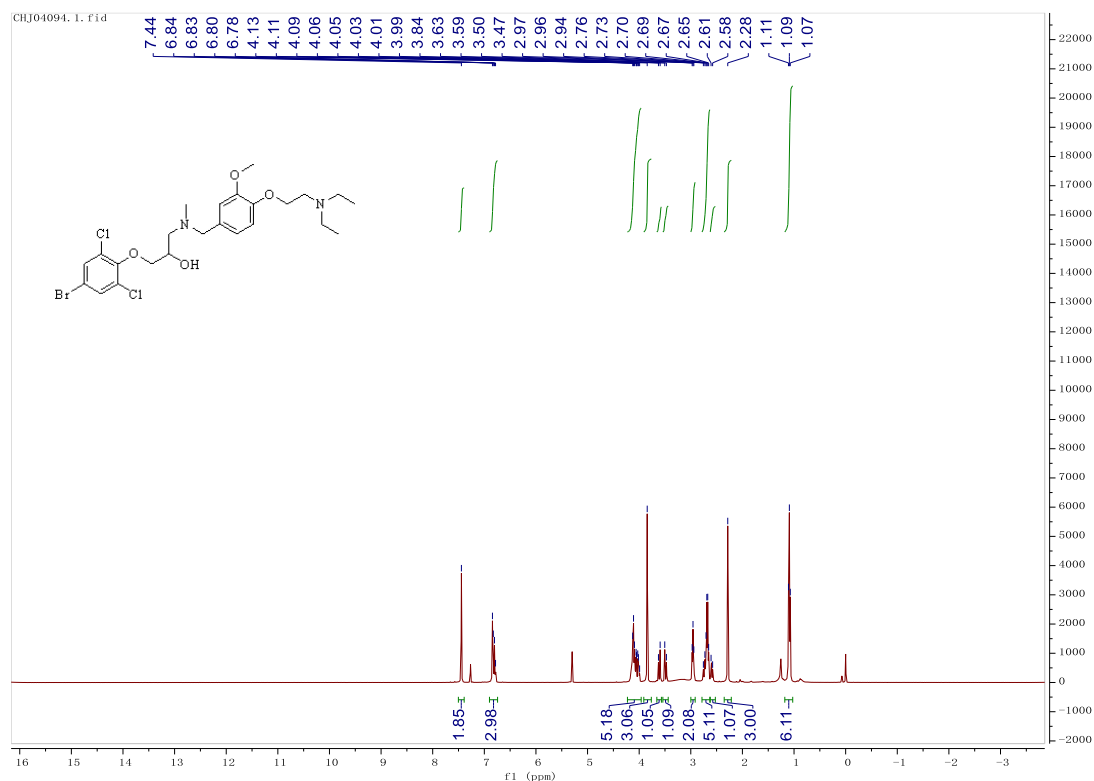


**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04093:**

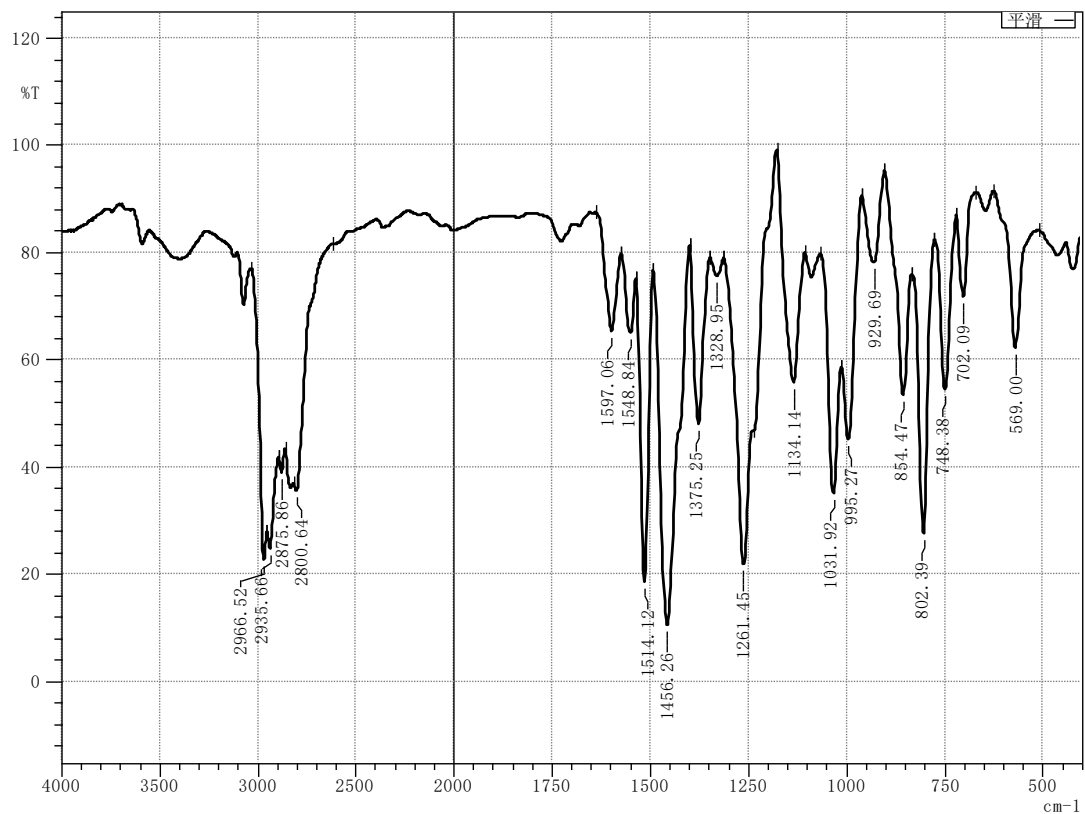




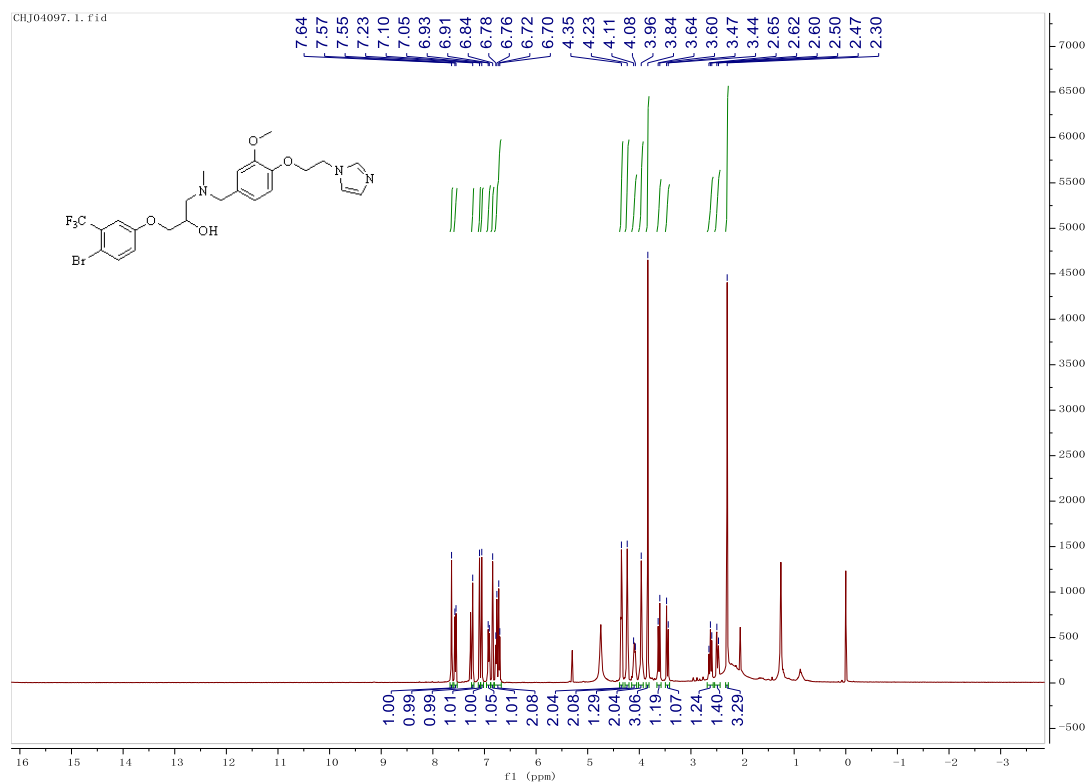
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04094:**

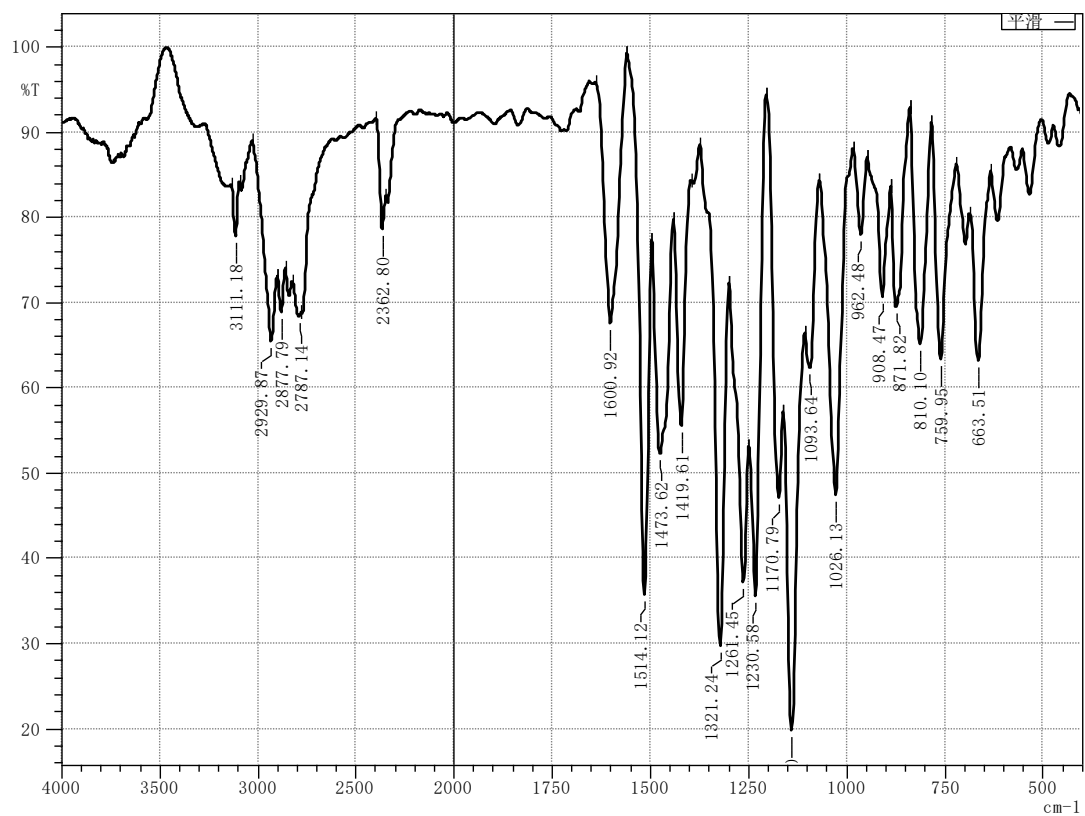
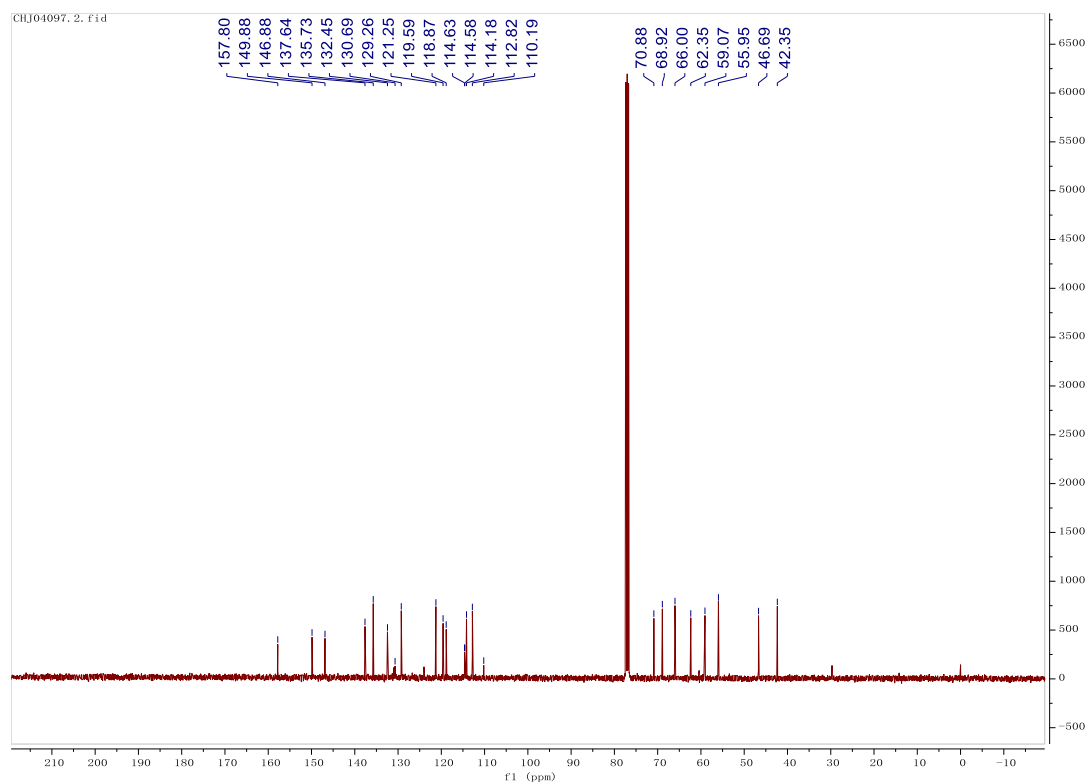




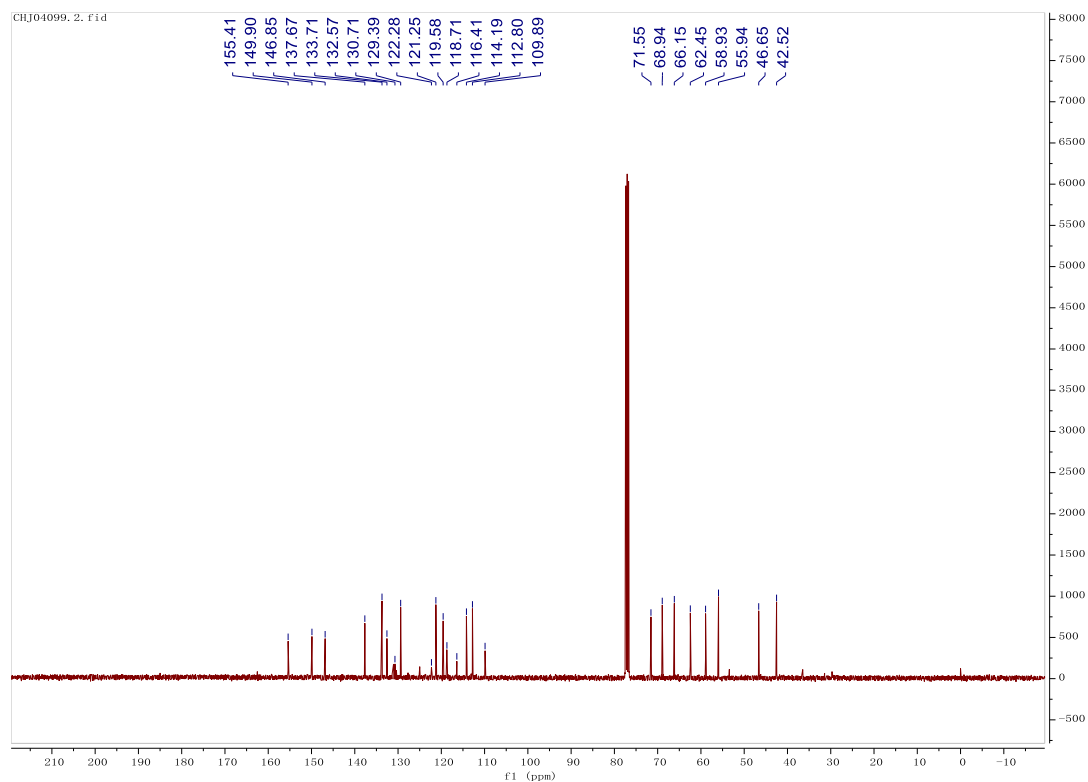
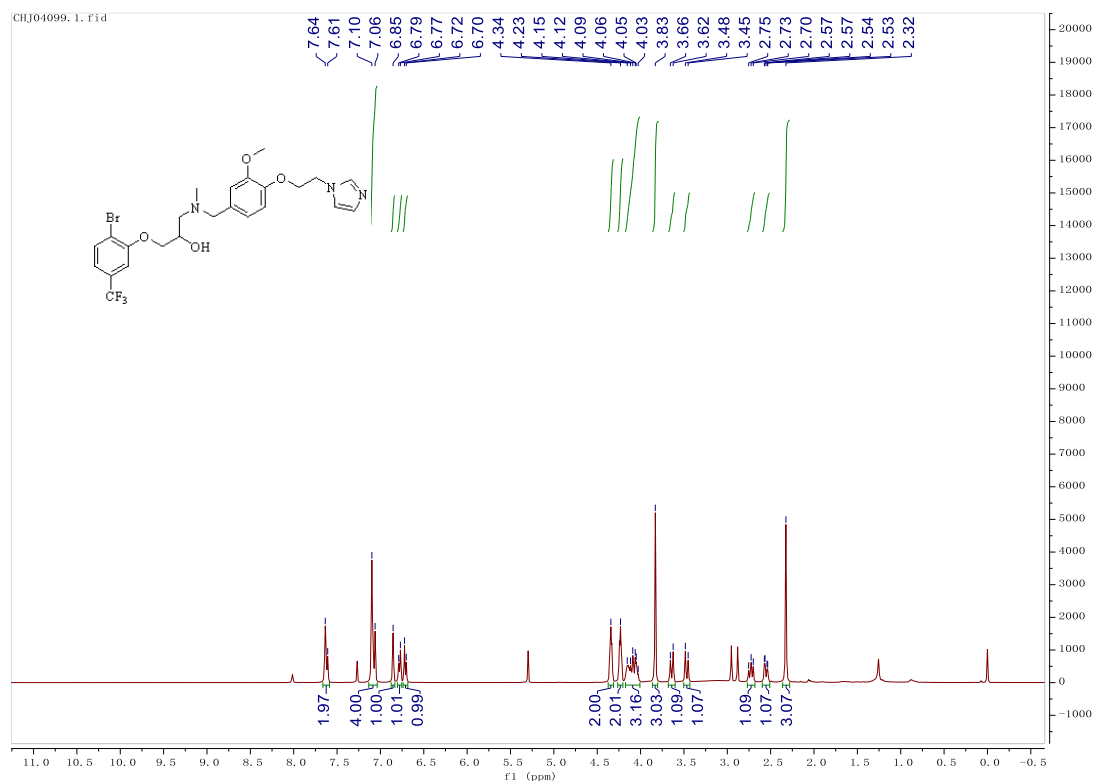


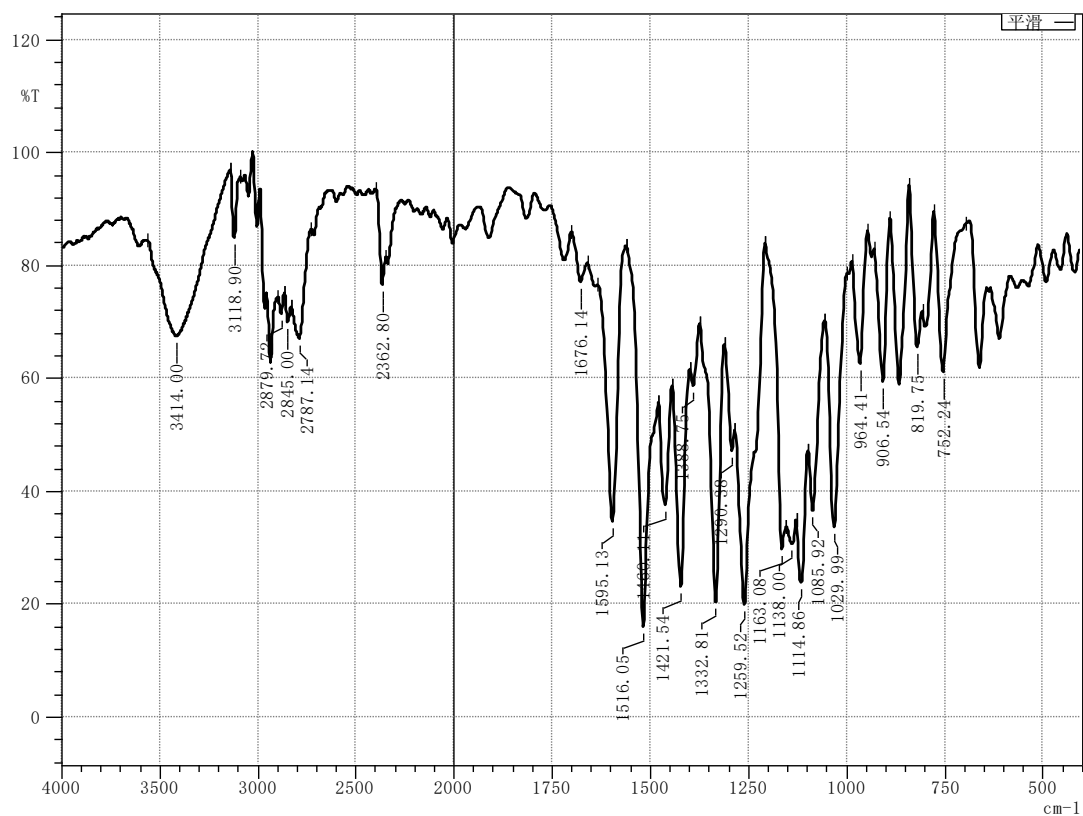
### NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04097:



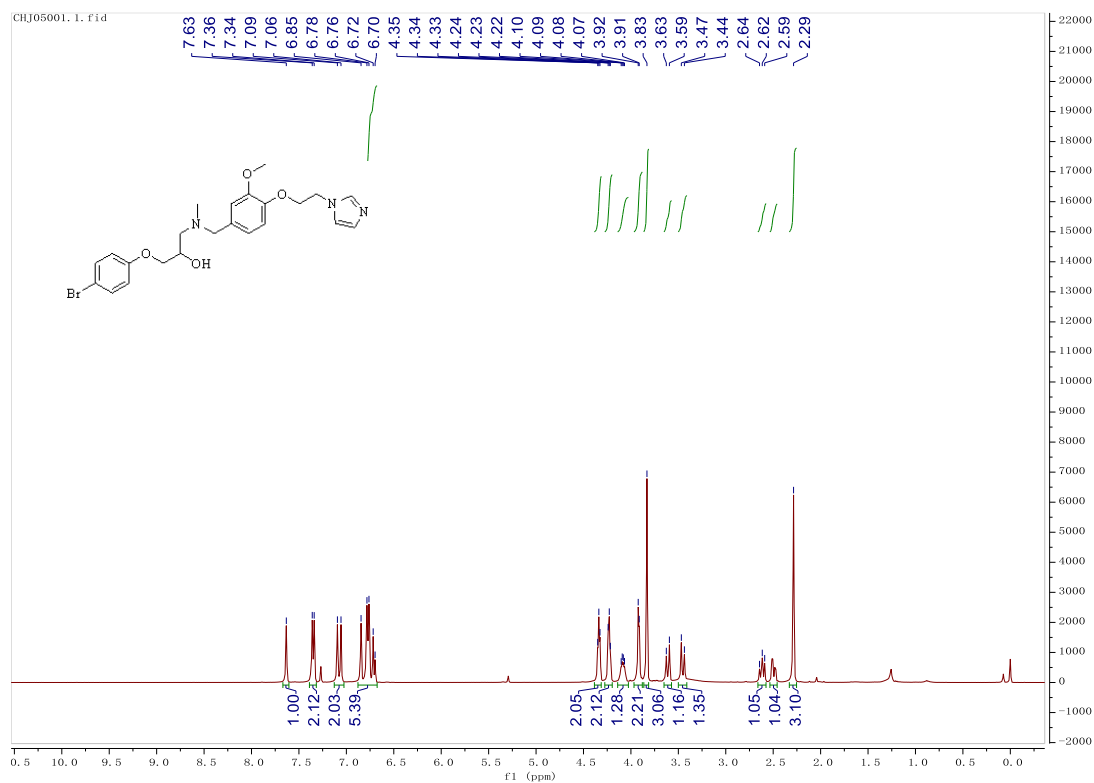


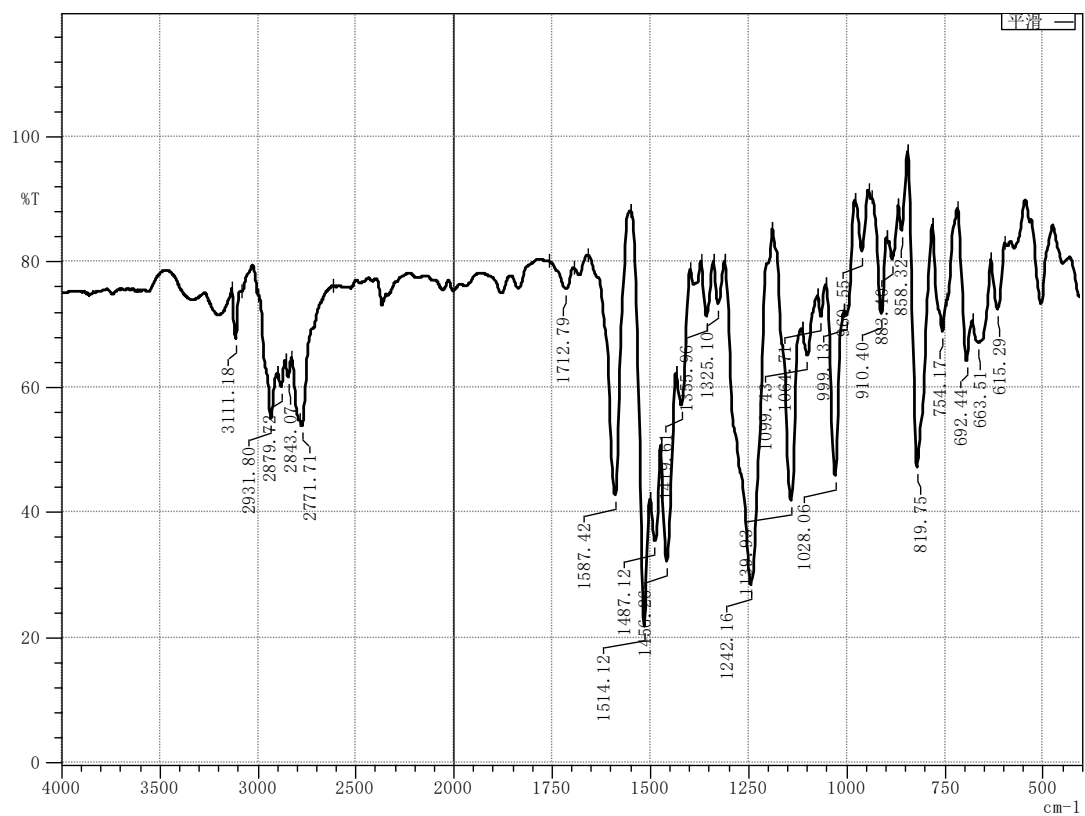
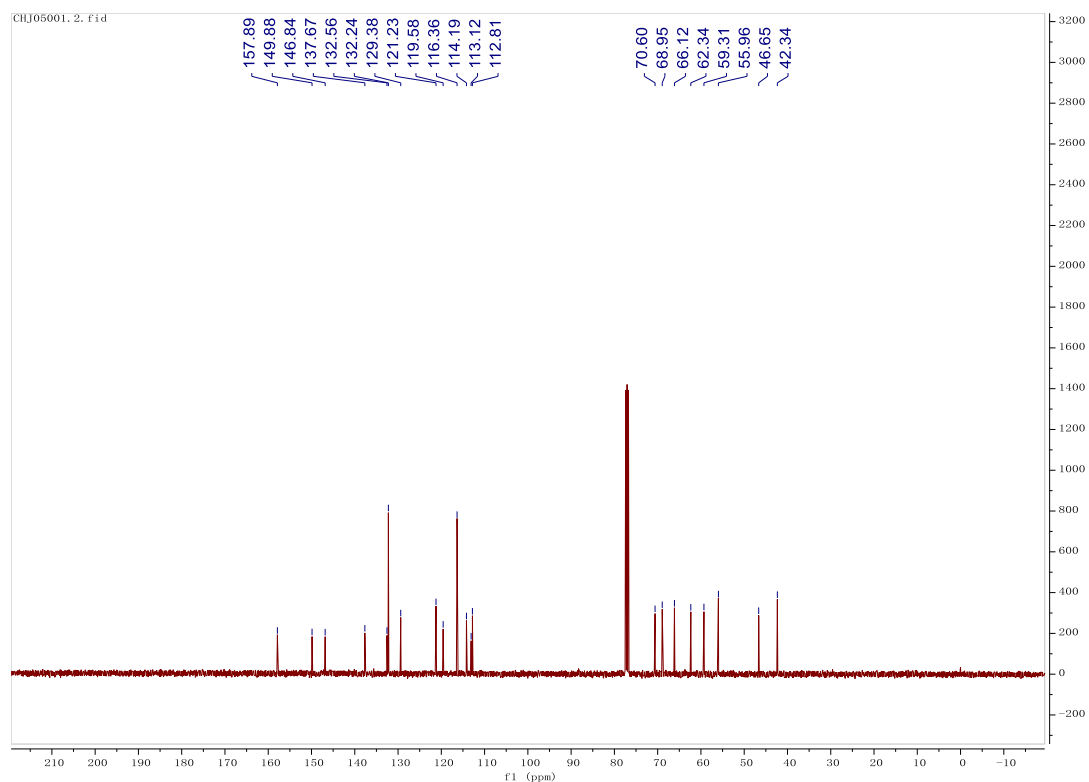
# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ04099:**



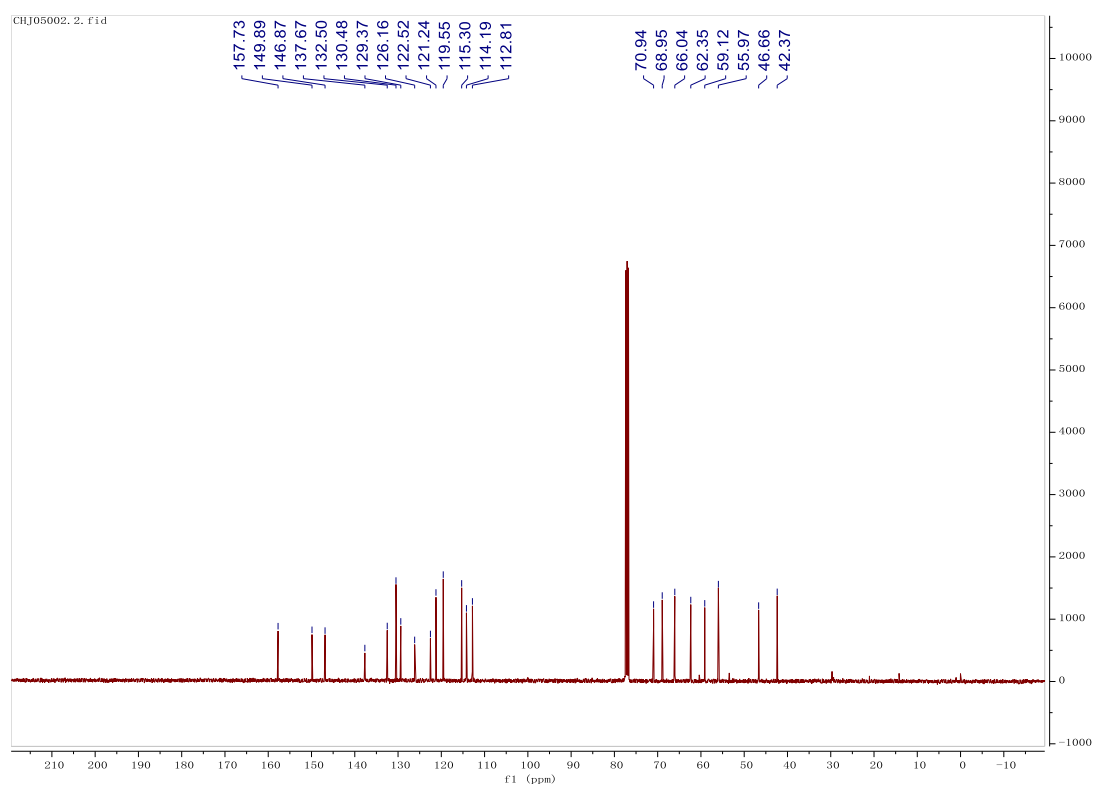
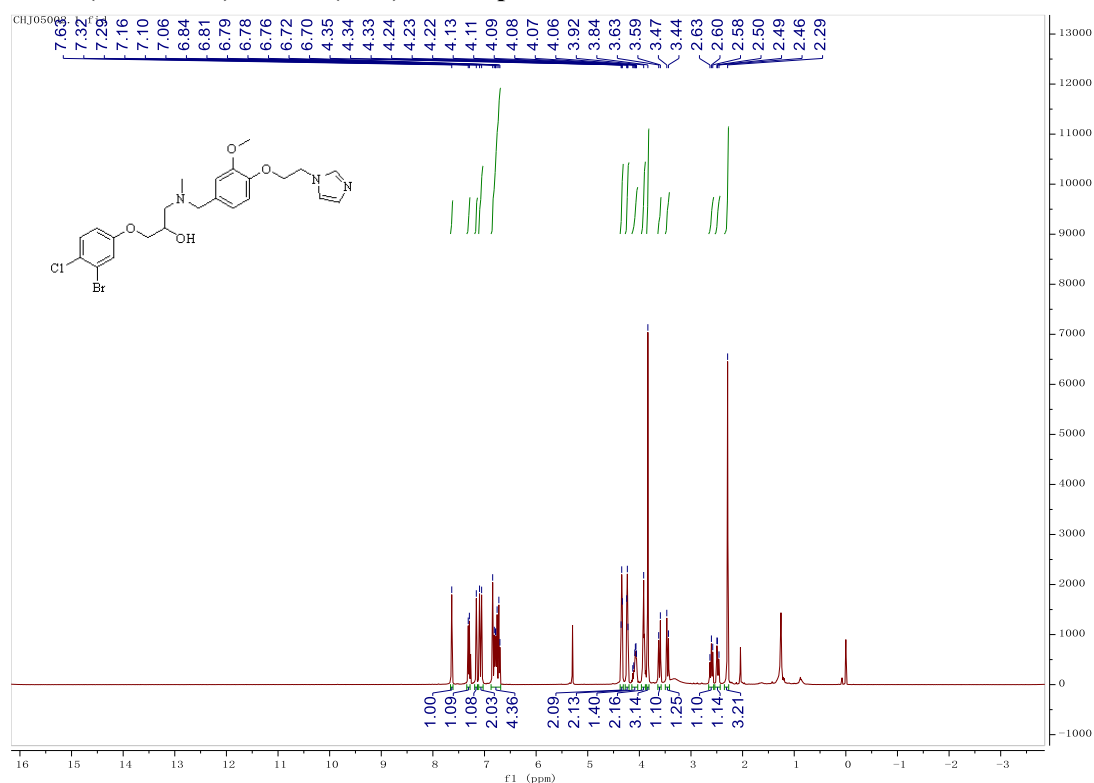


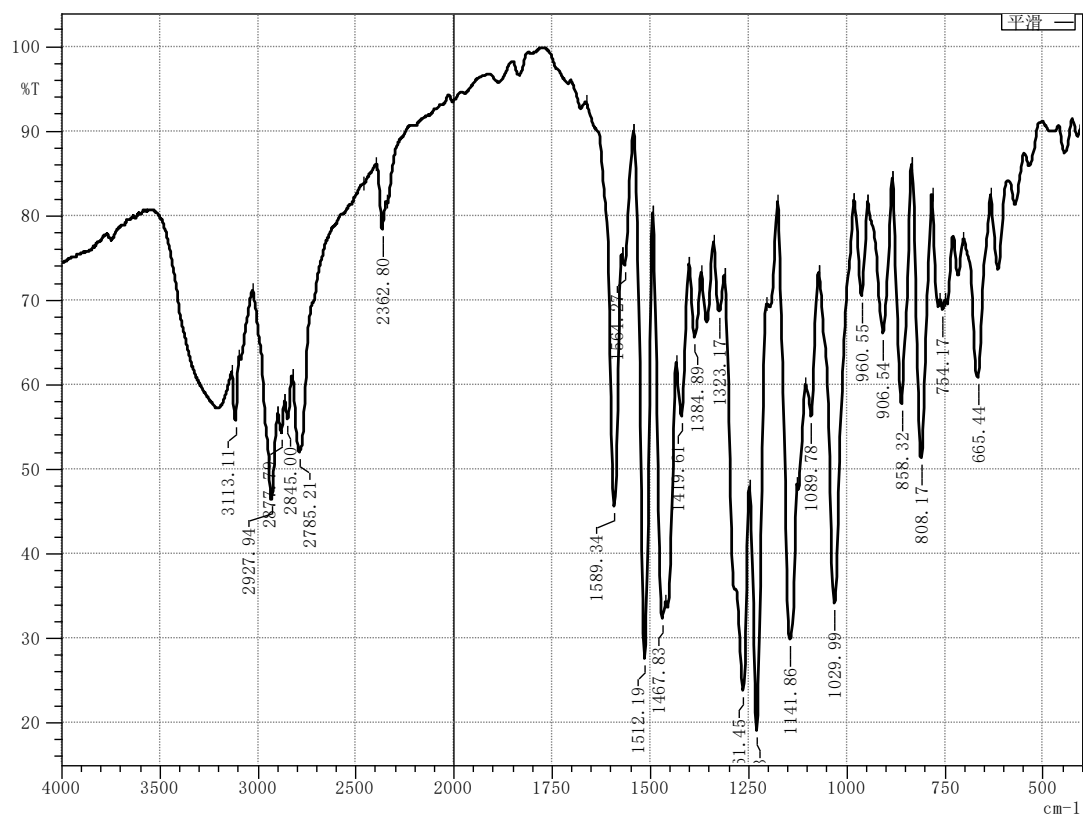
**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ05001:**





# **NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ05002:**





**NMR (<sup>1</sup>H and <sup>13</sup>C) and IR (KBr) of Compound CHJ05003:**

