

Supporting Information

Propargylation of 1, 3-dicarbonyl compounds catalyzed by 2,3-dichloro-5,6-dicyano-1,4-benzoquinone and sodium nitrite in the presence of molecular oxygen and formic acid

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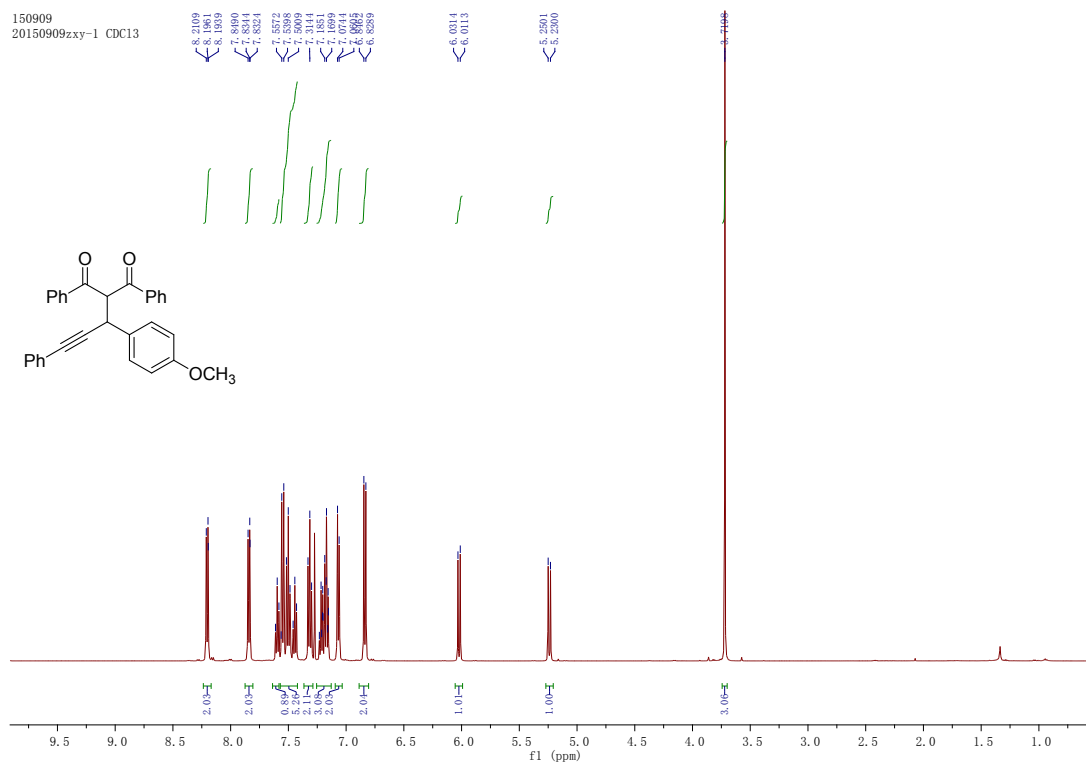
[‡]College of Chemical Engineering, Zhejiang University of Technology, Hangzhou 310014, People's Republic of China.

Correspondent. E-mail: chengdp@zjut.edu.cn

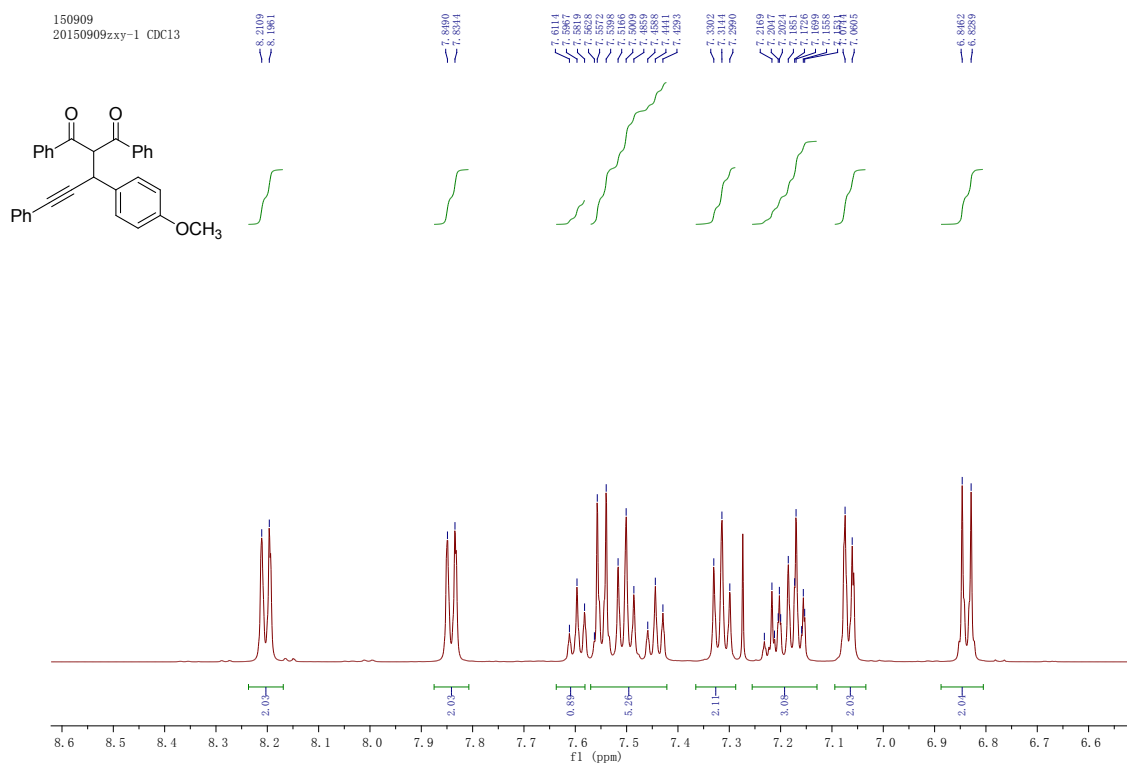
¹H NMR and ¹³C NMR spectra of all products **3**

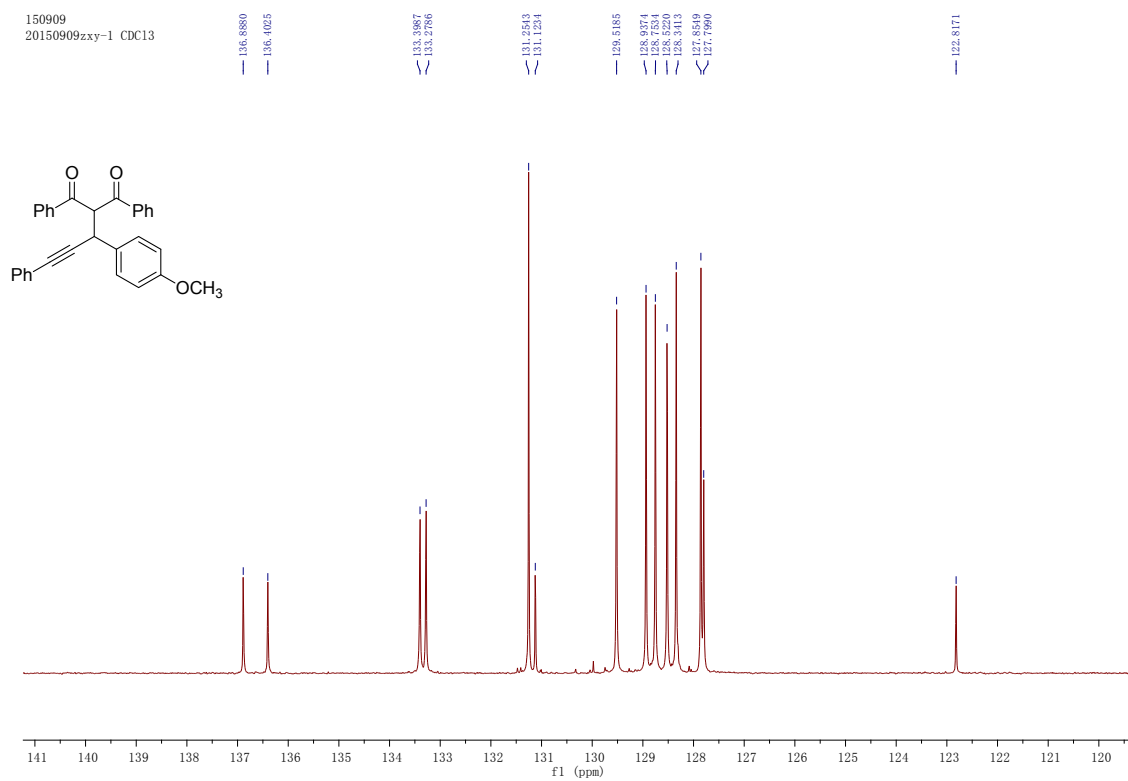
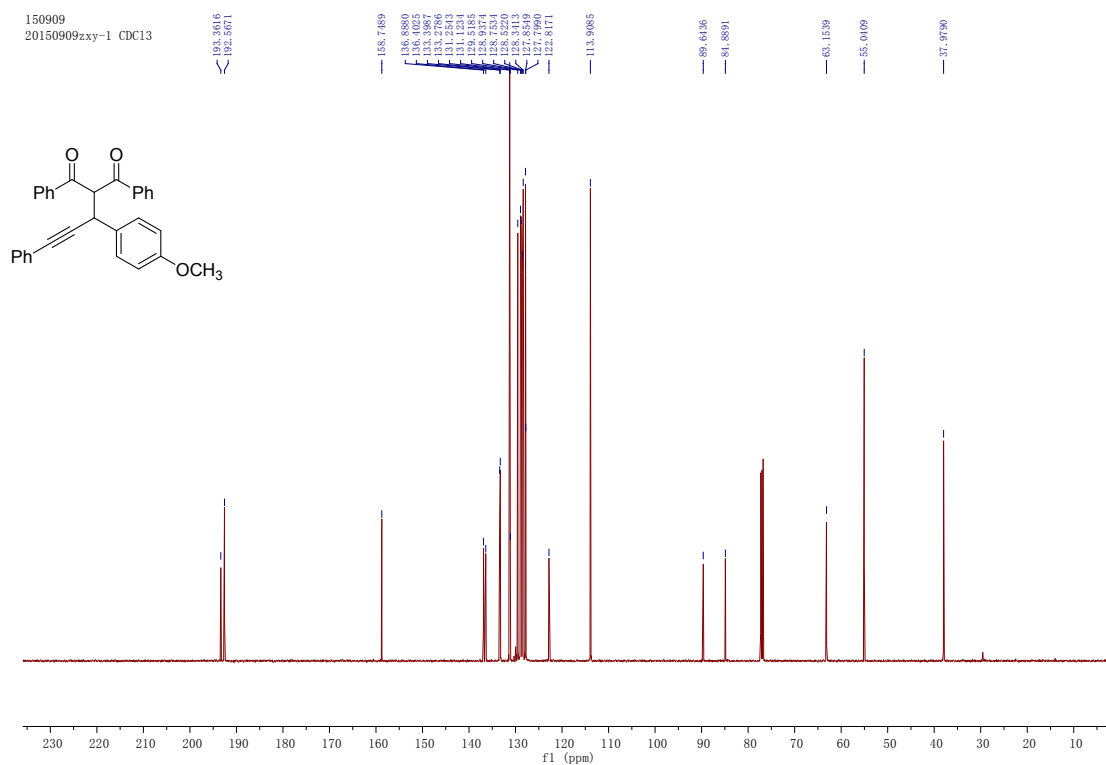
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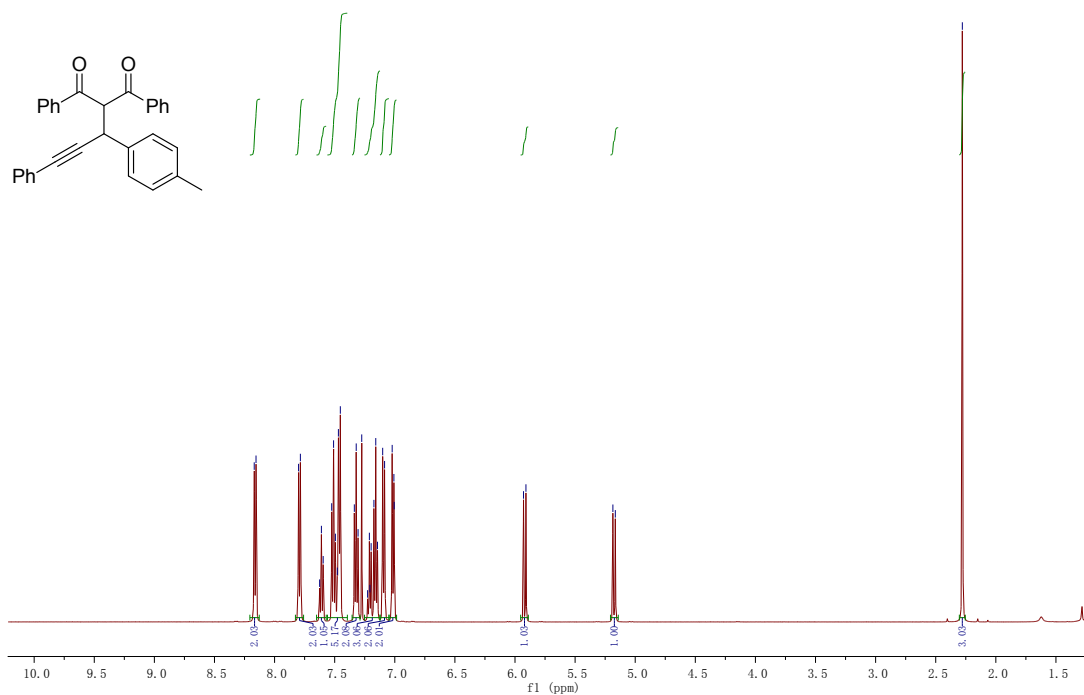
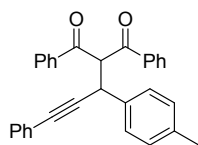


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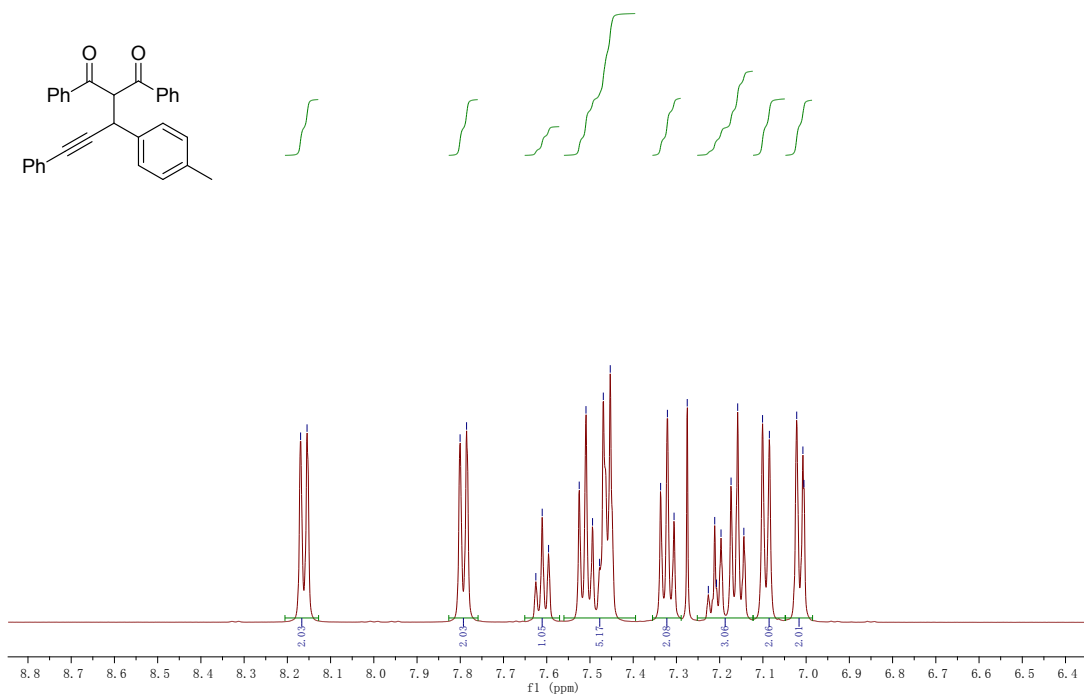
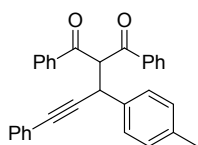


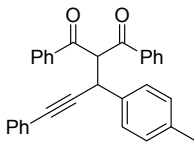
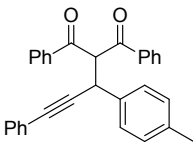


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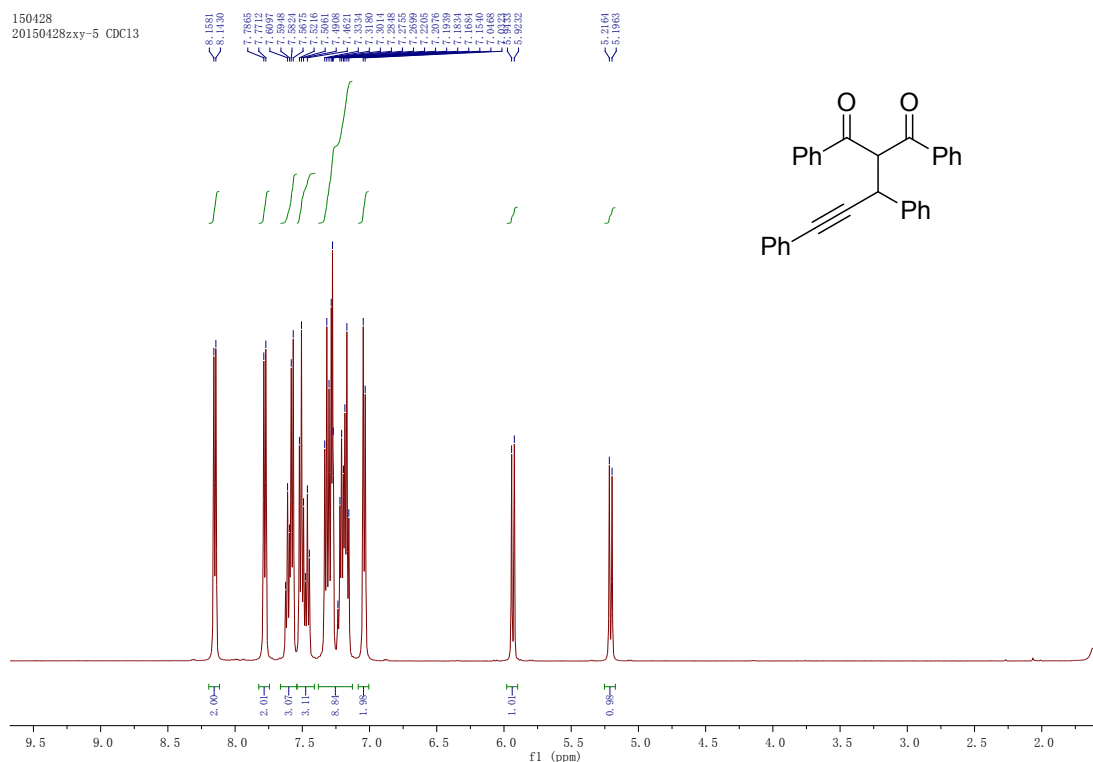


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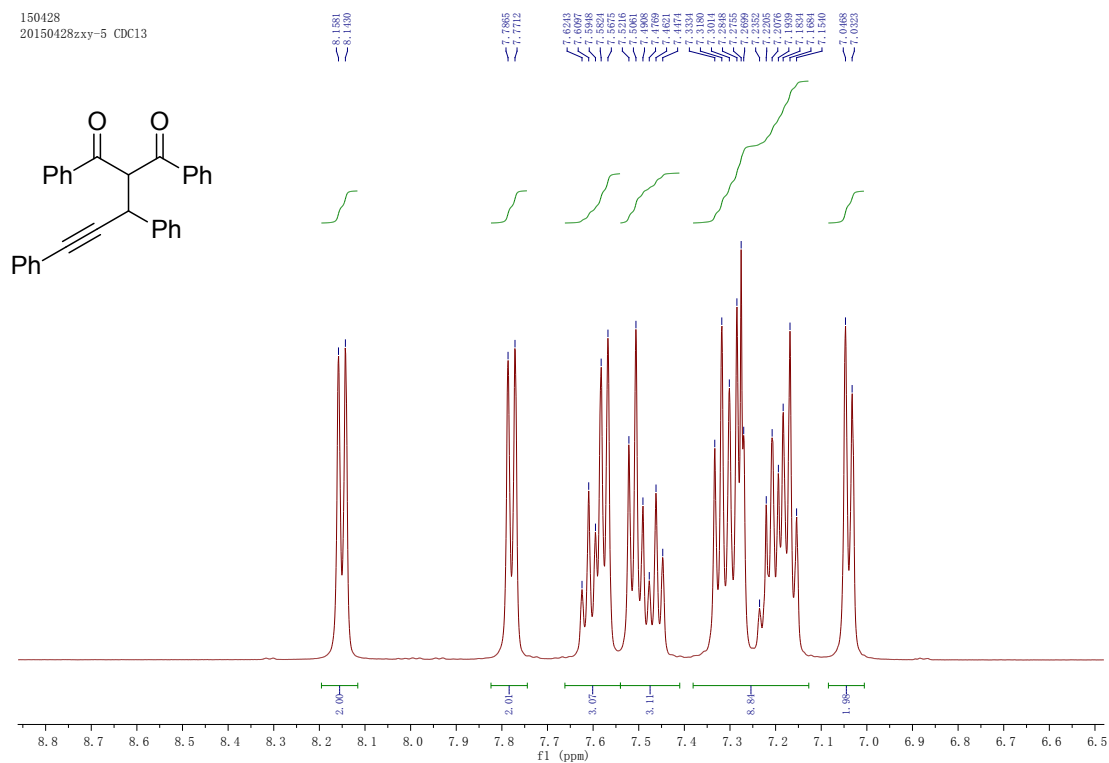




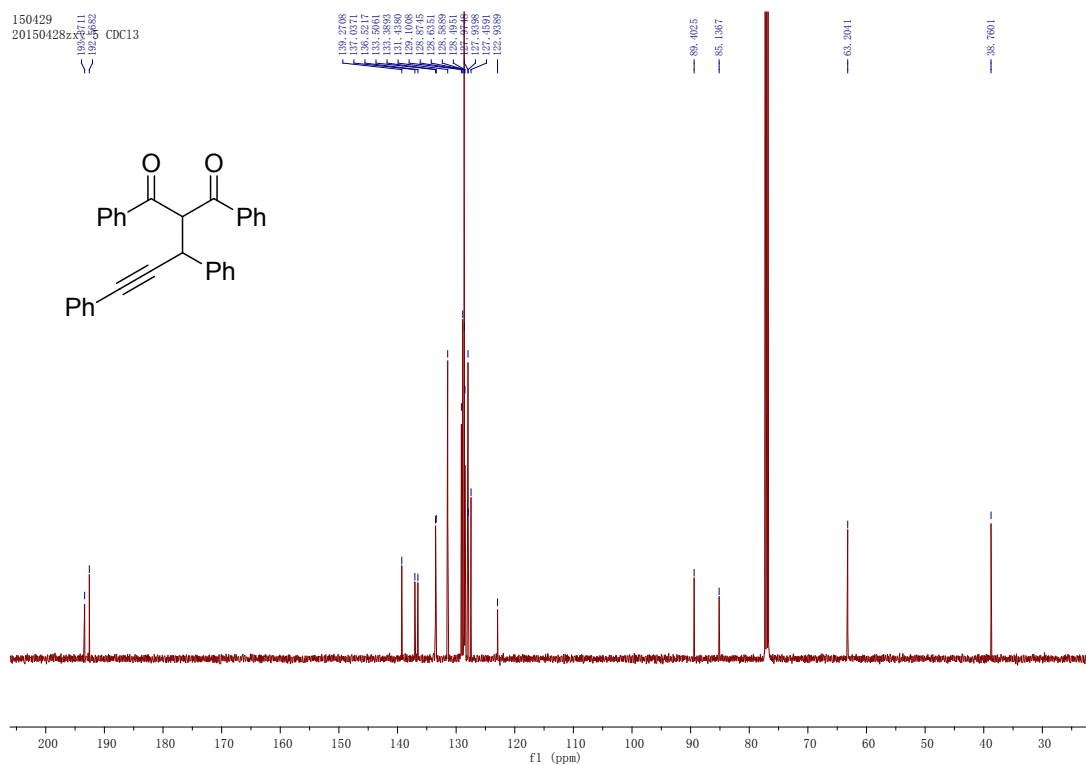
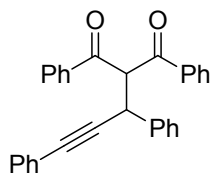
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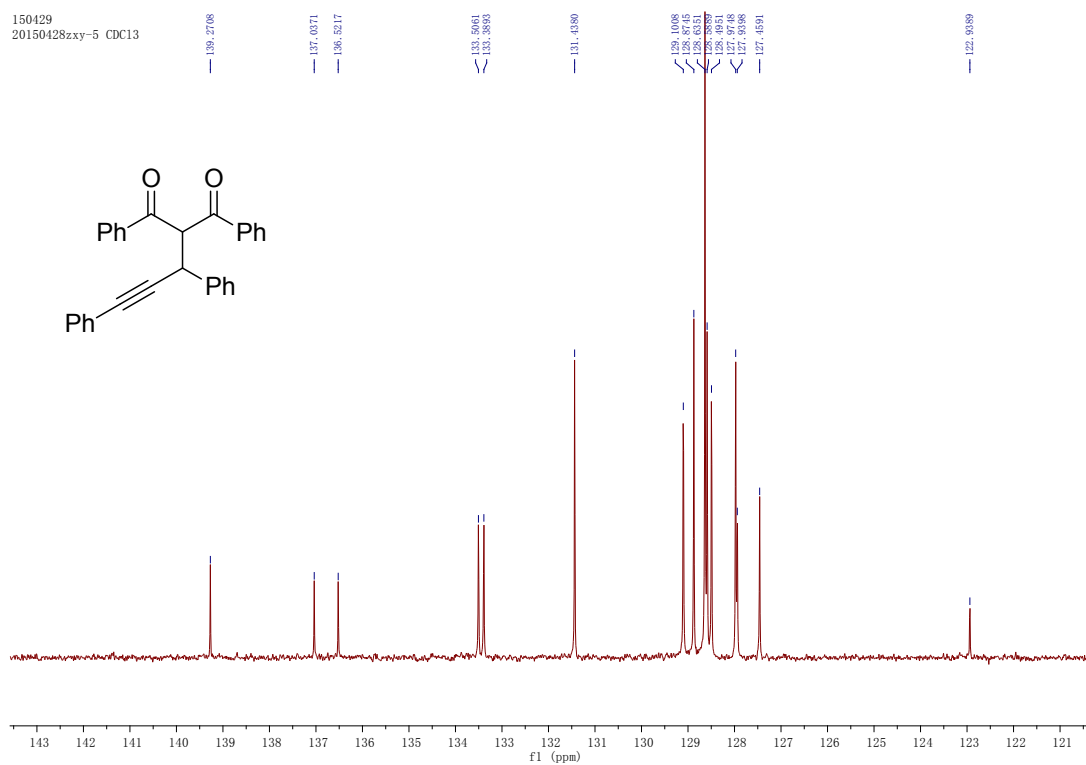
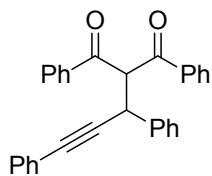
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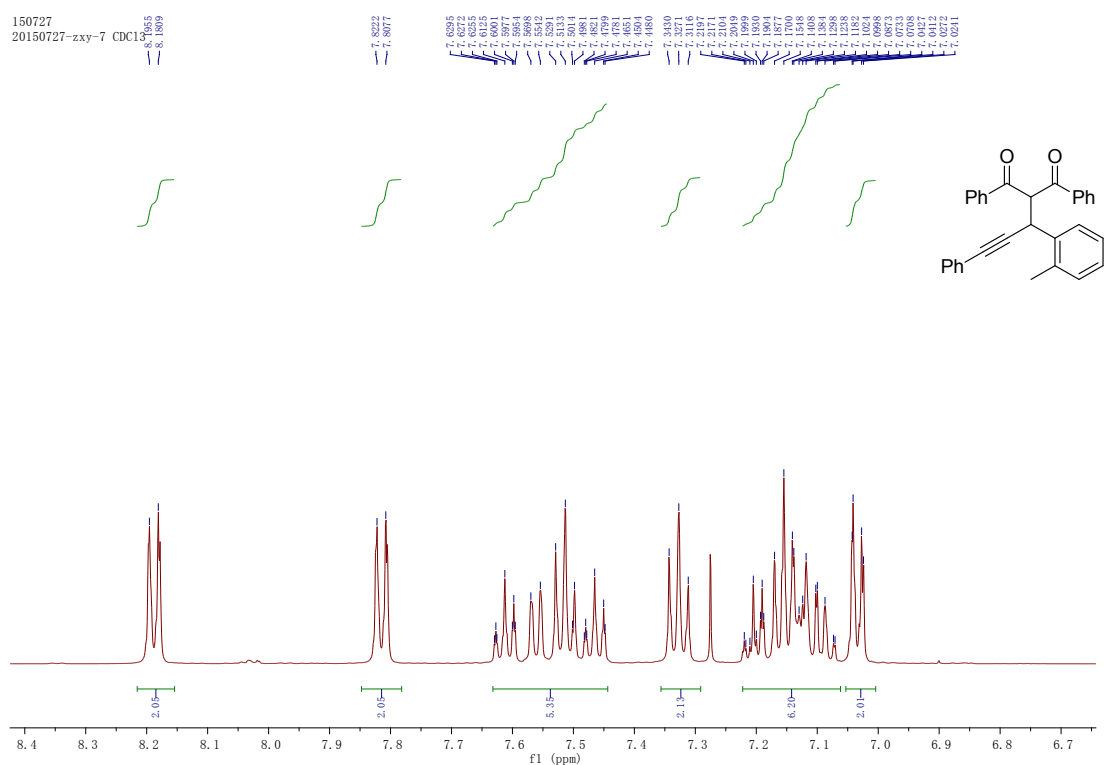
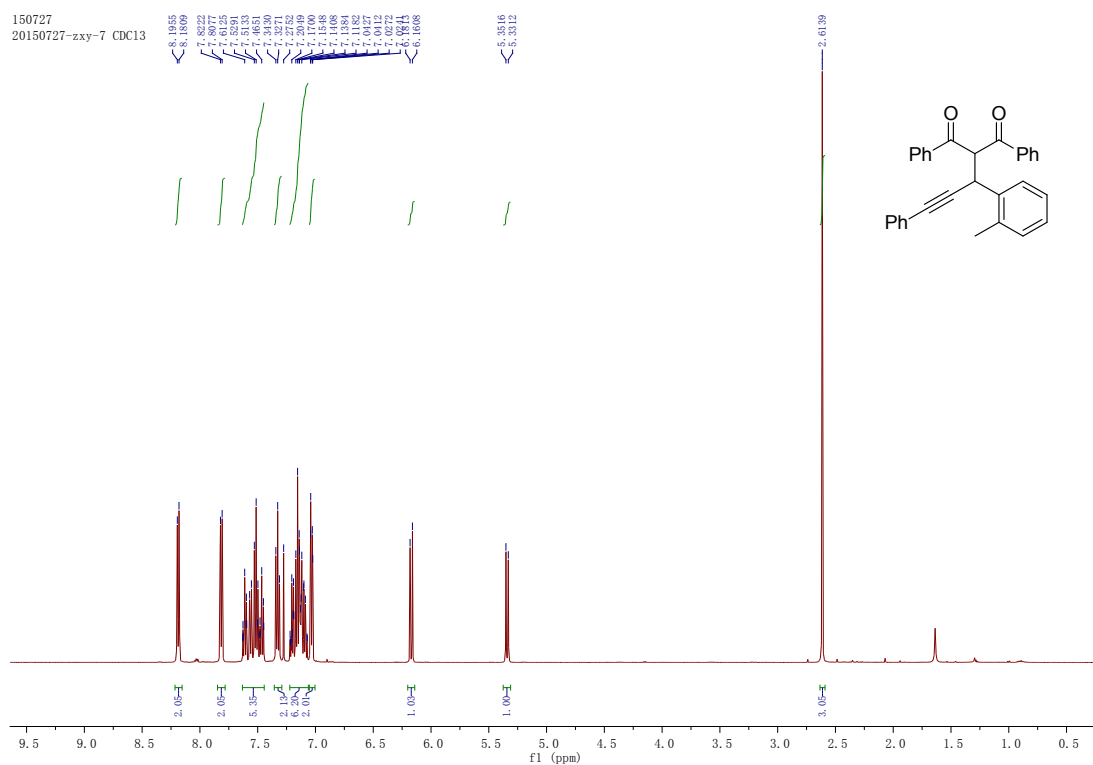


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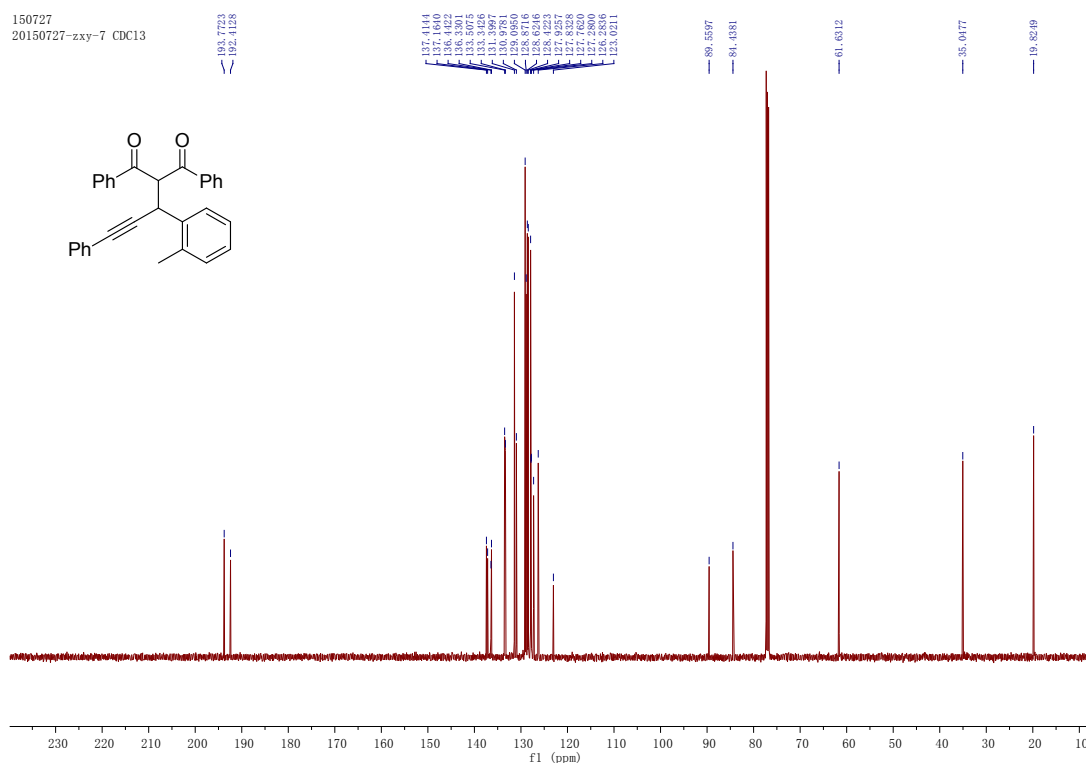


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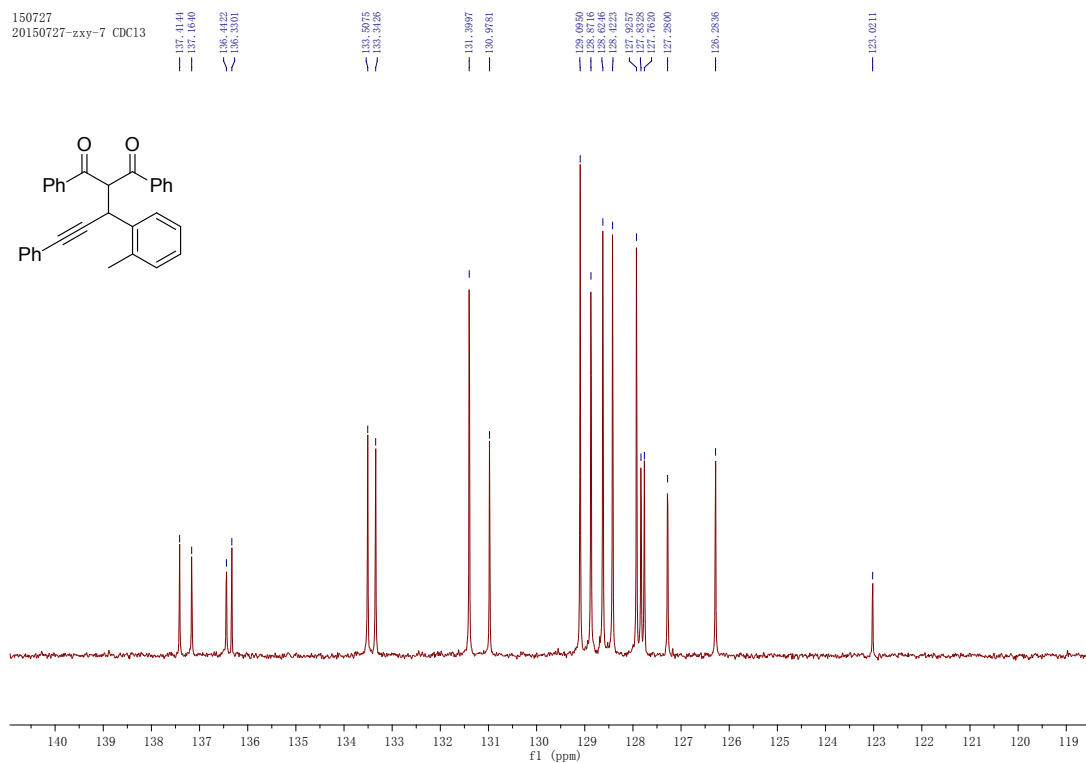




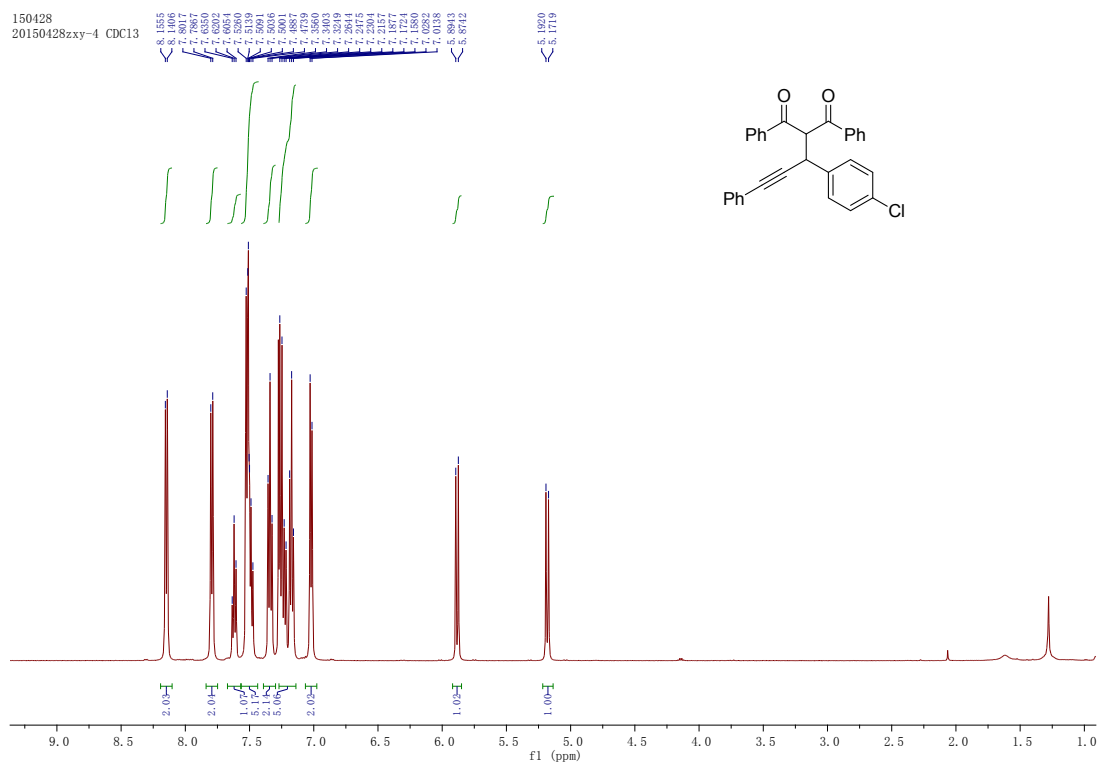
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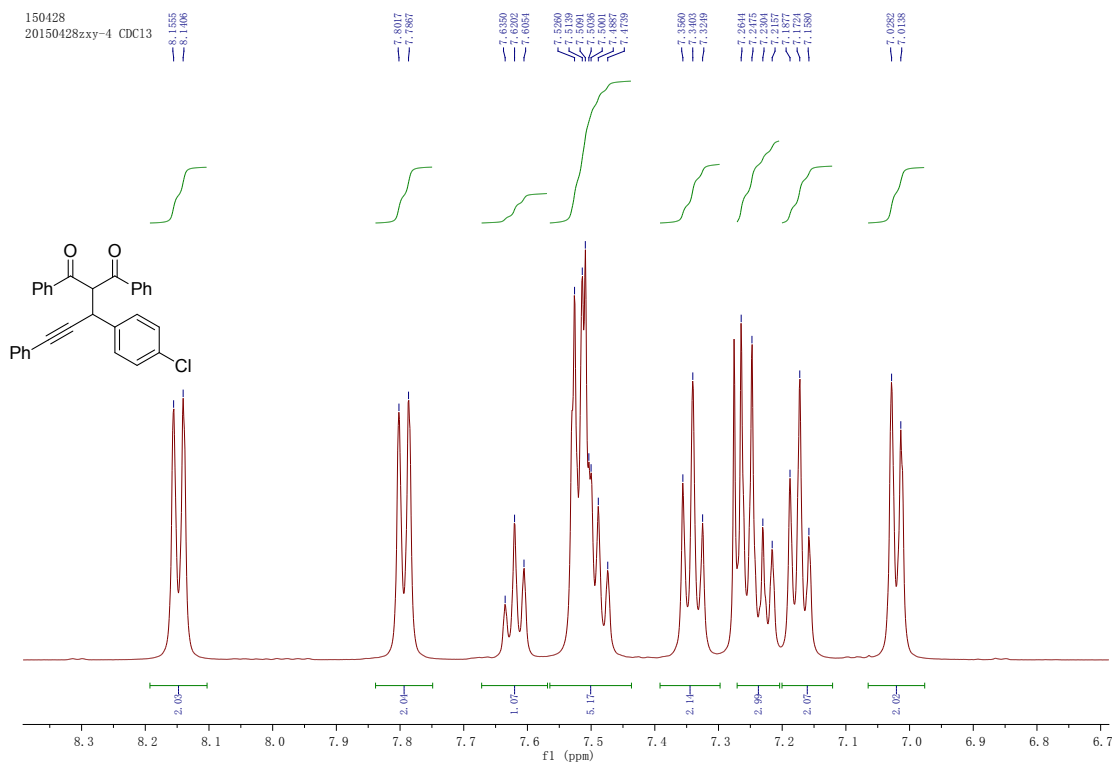
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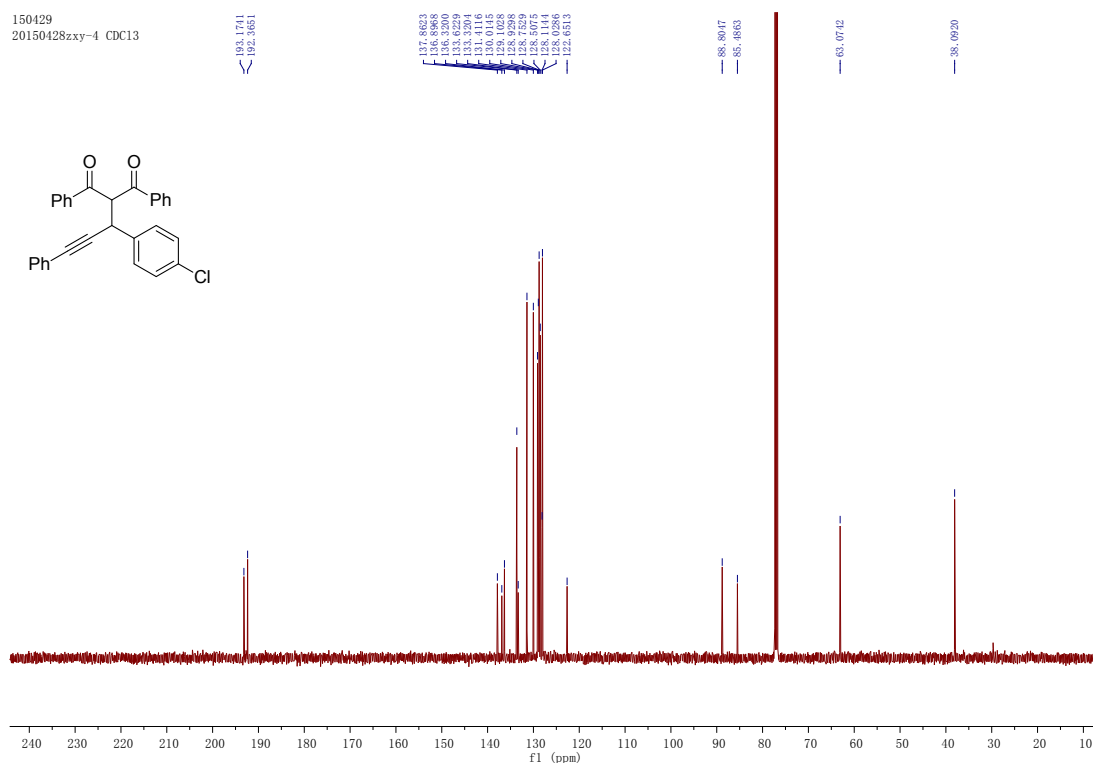
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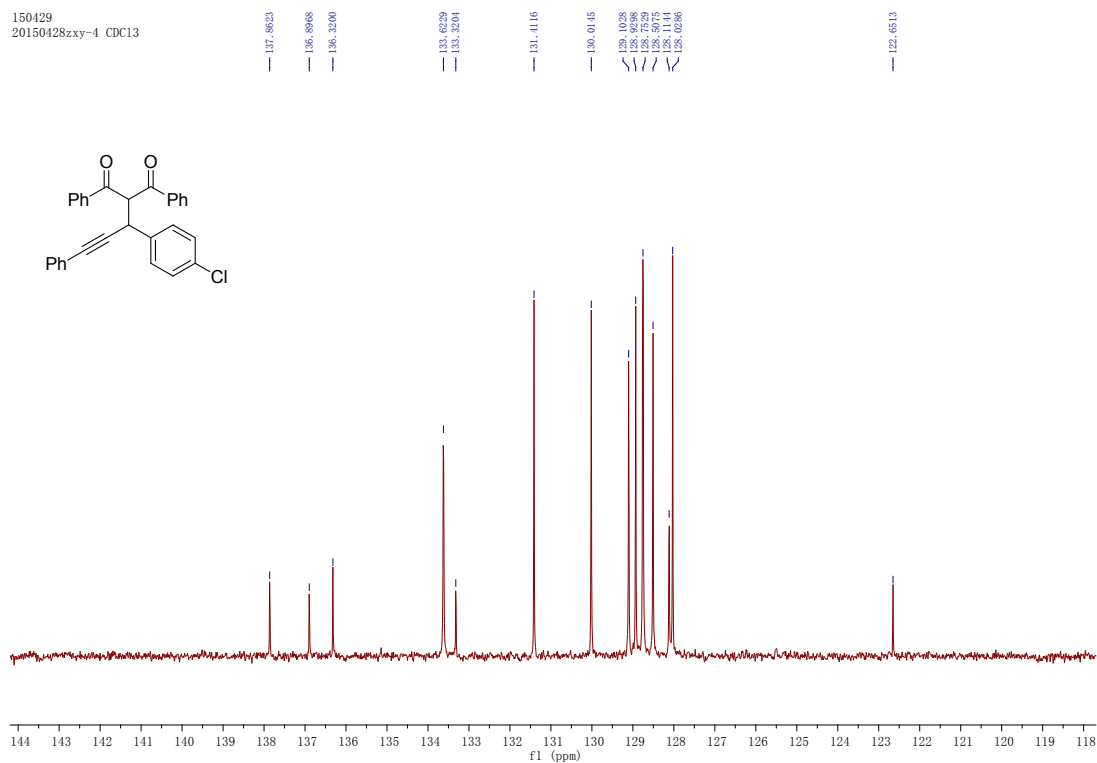
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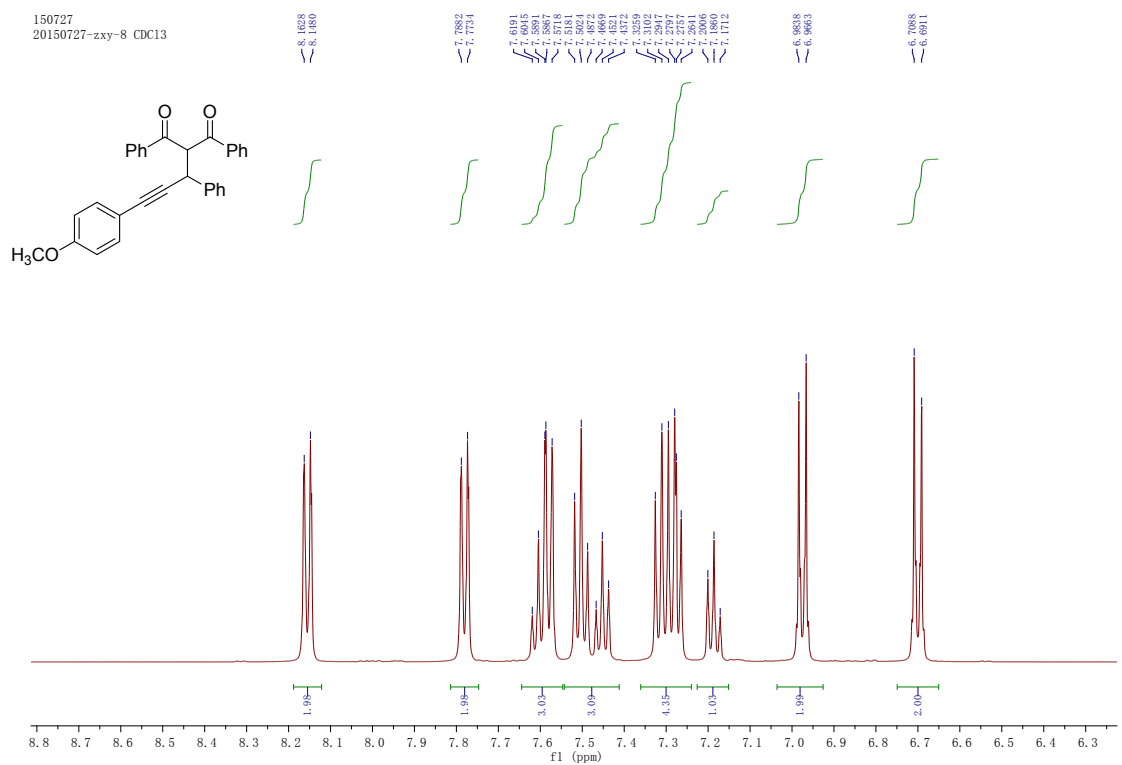
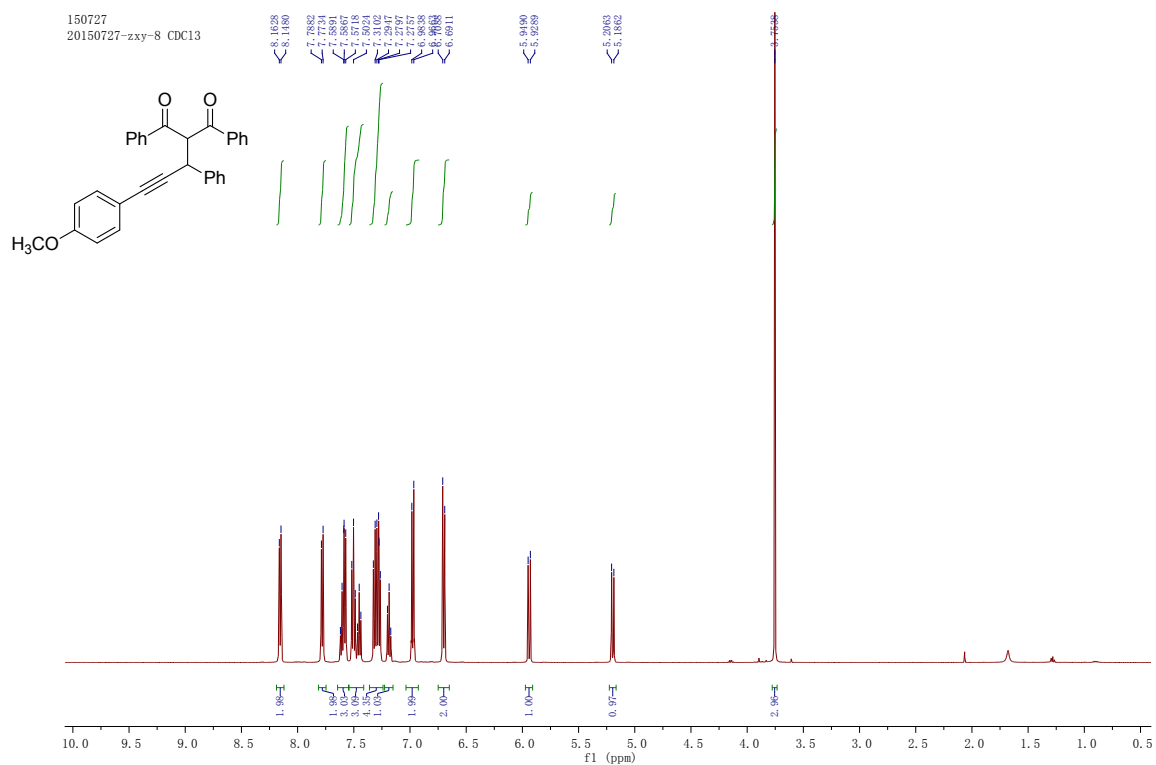


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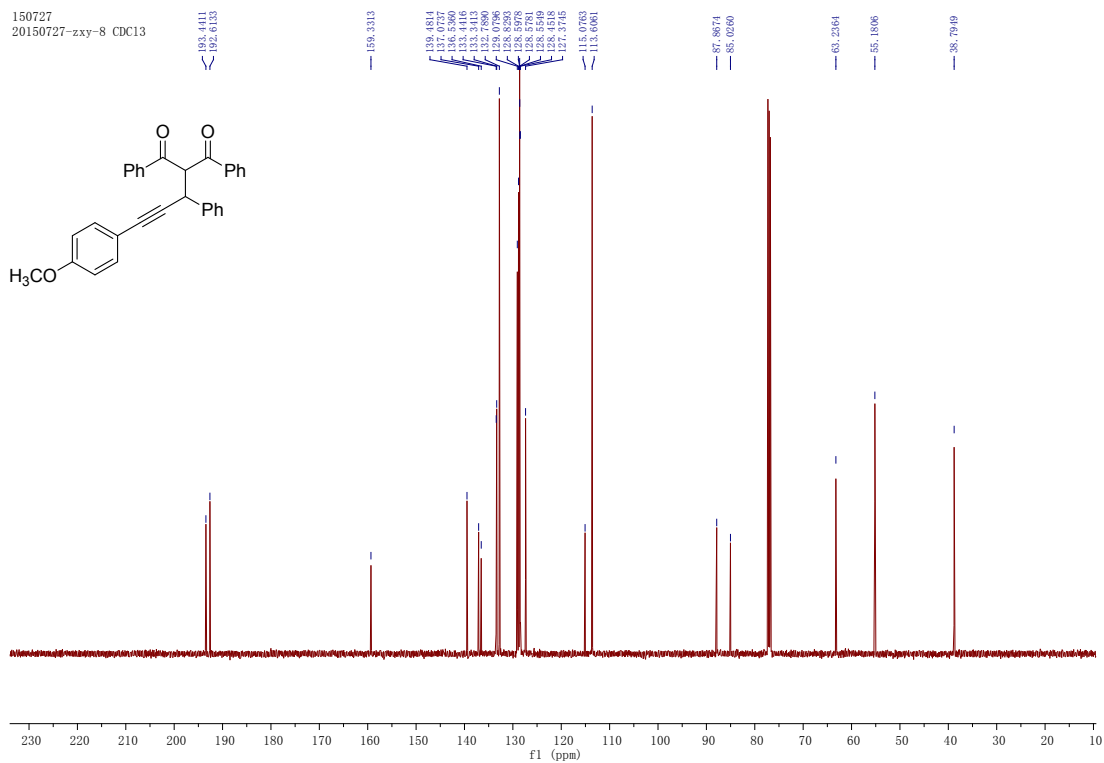


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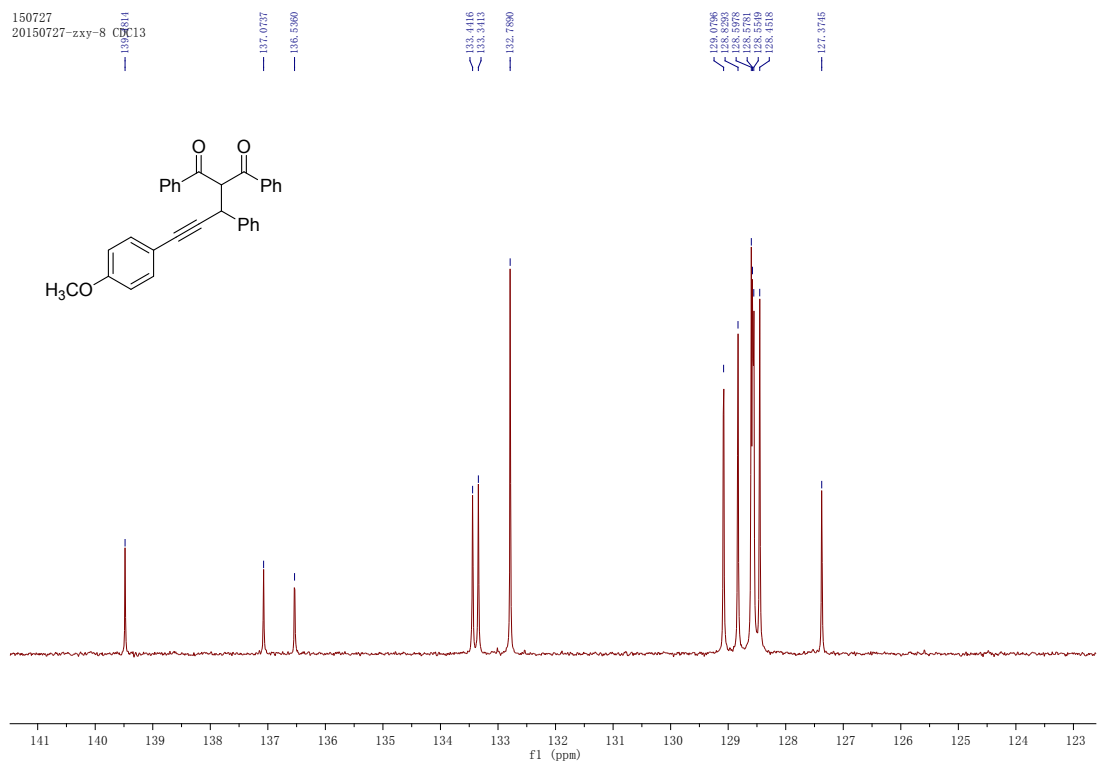


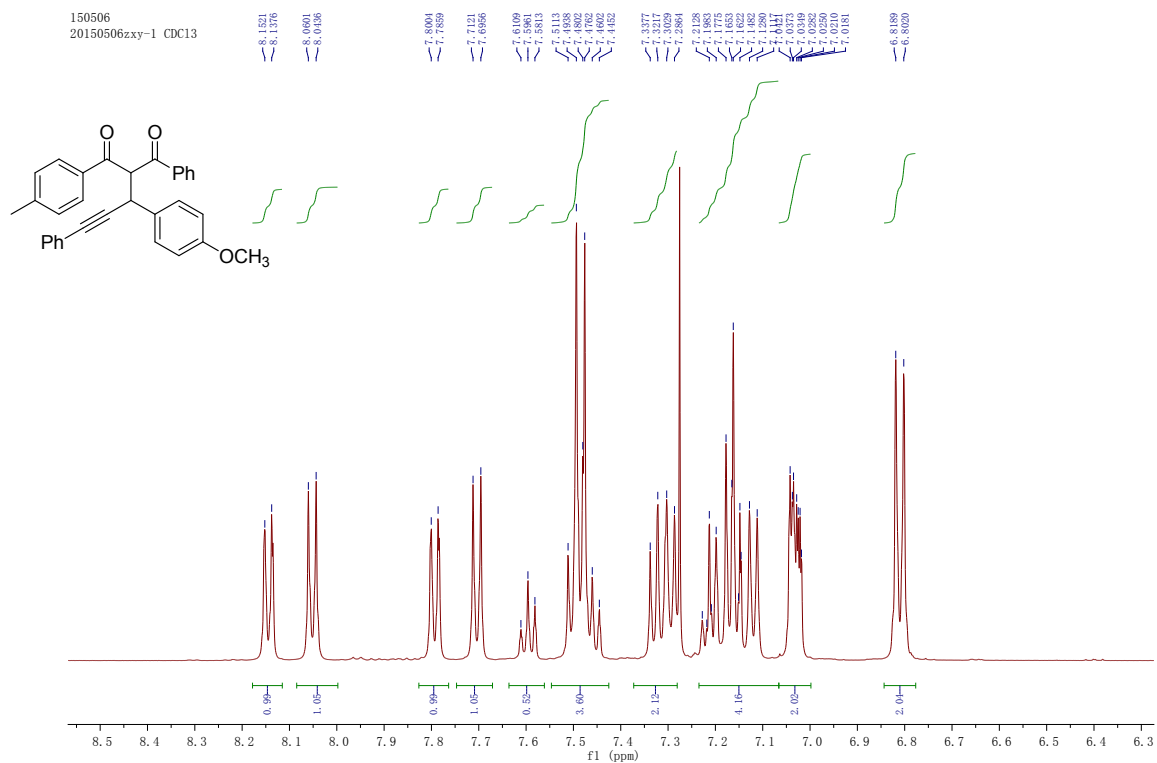
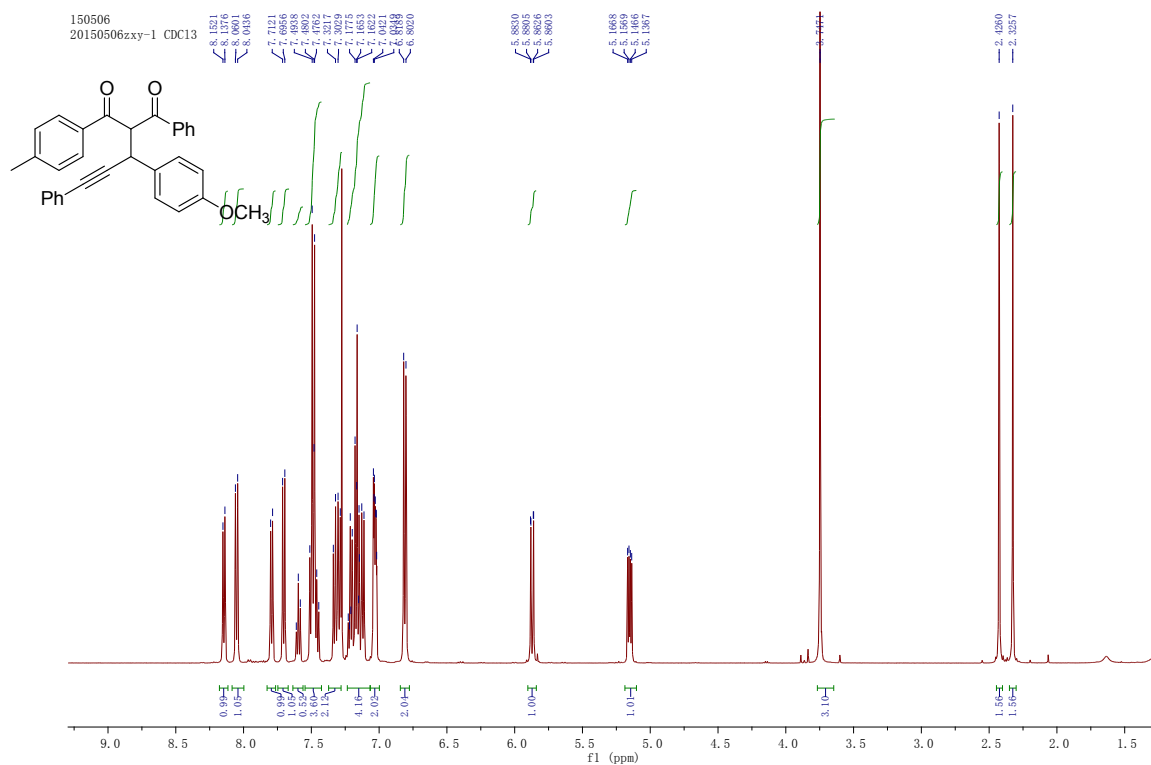


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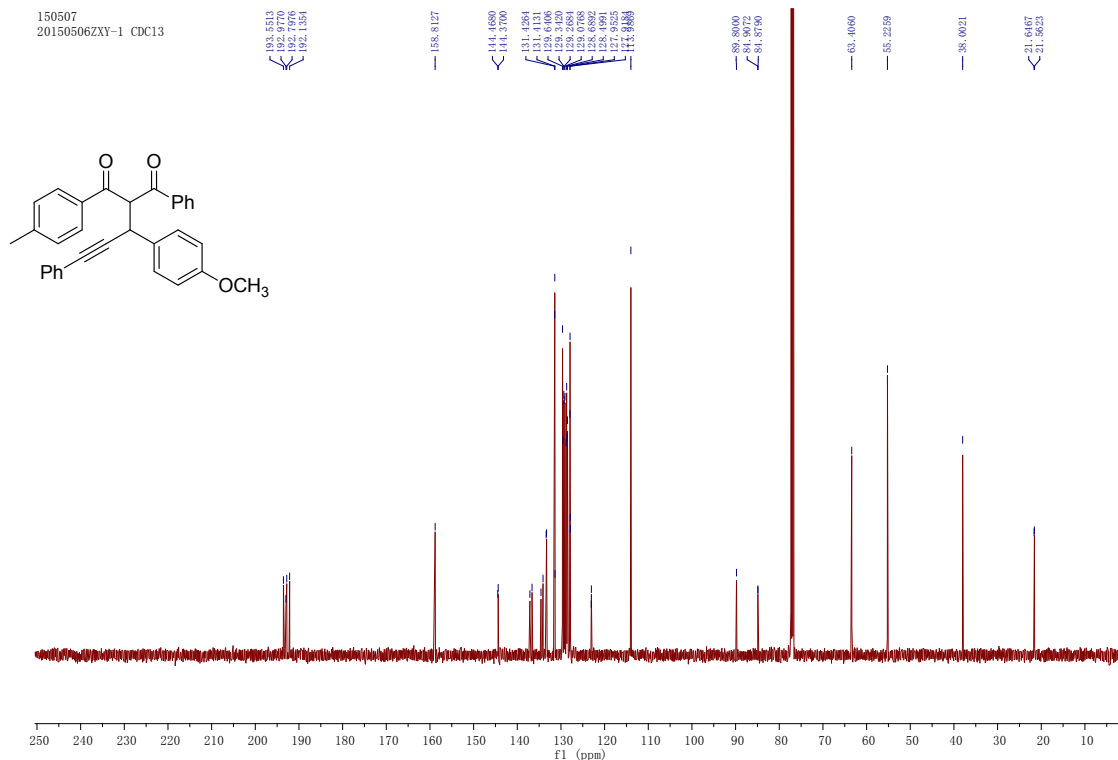


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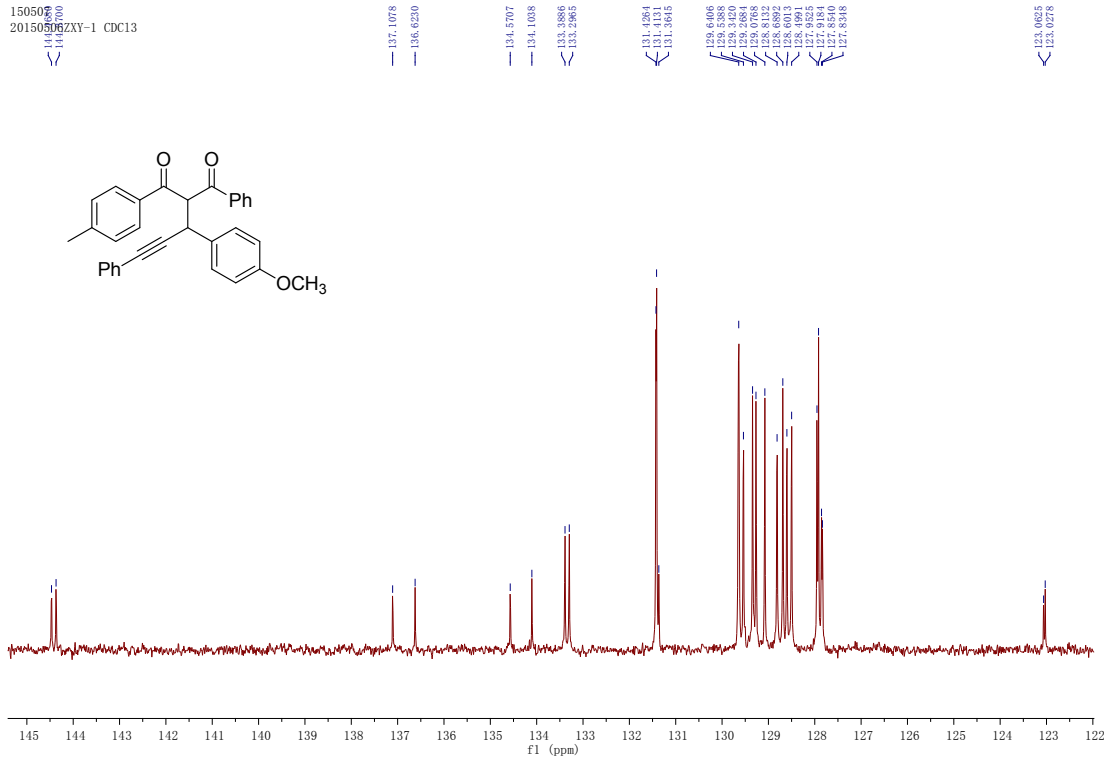




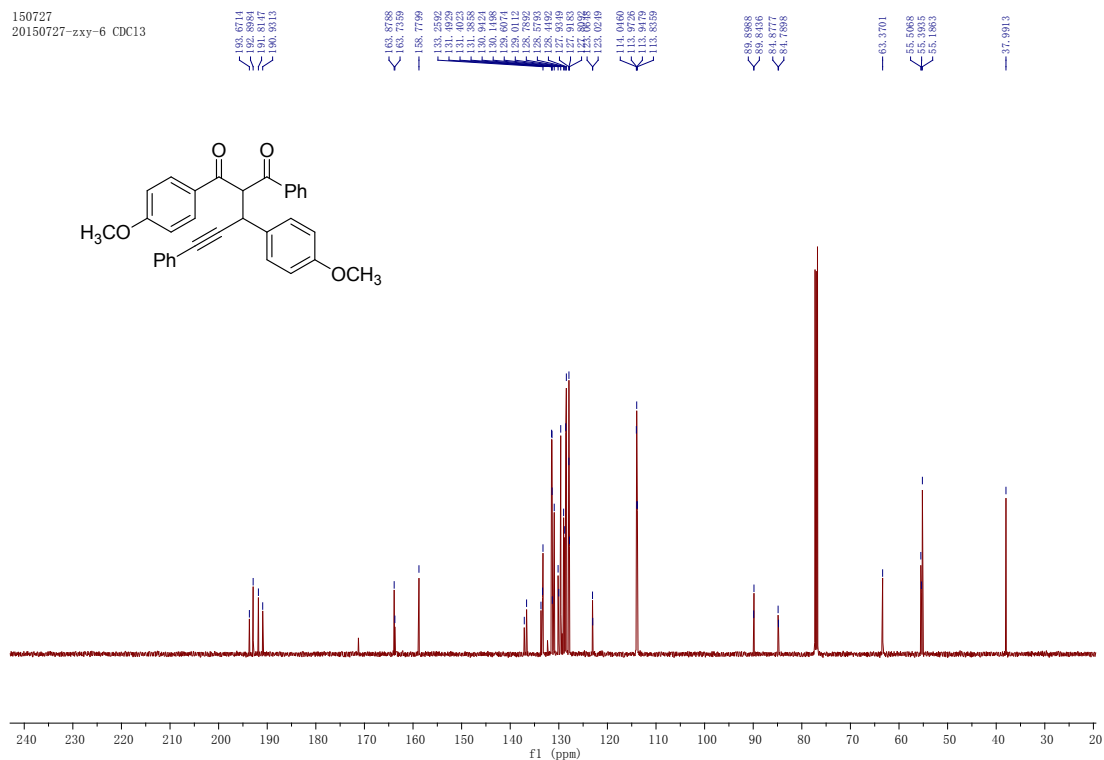
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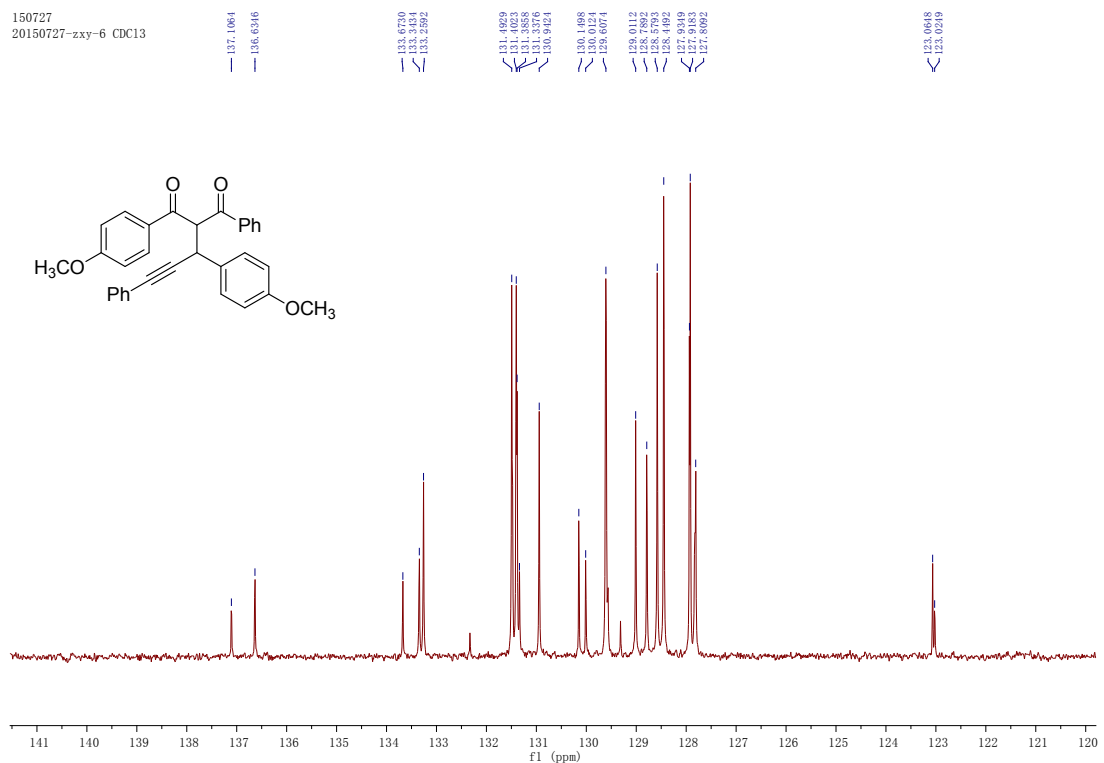
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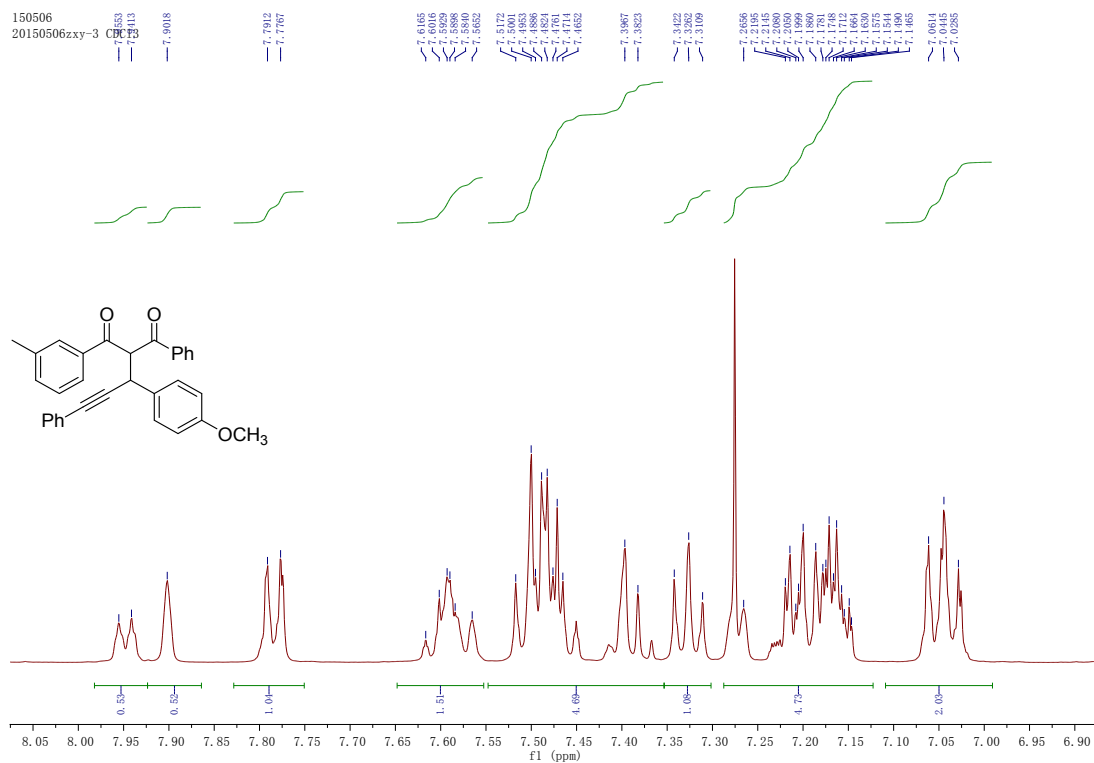
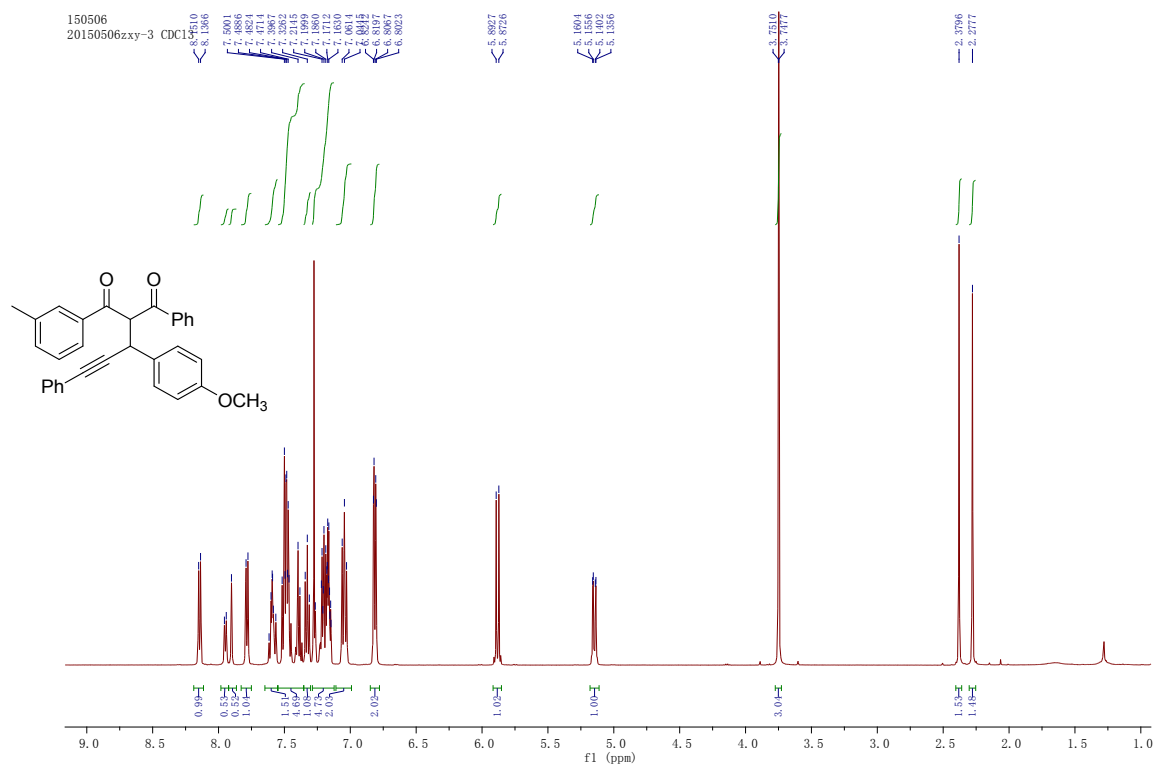


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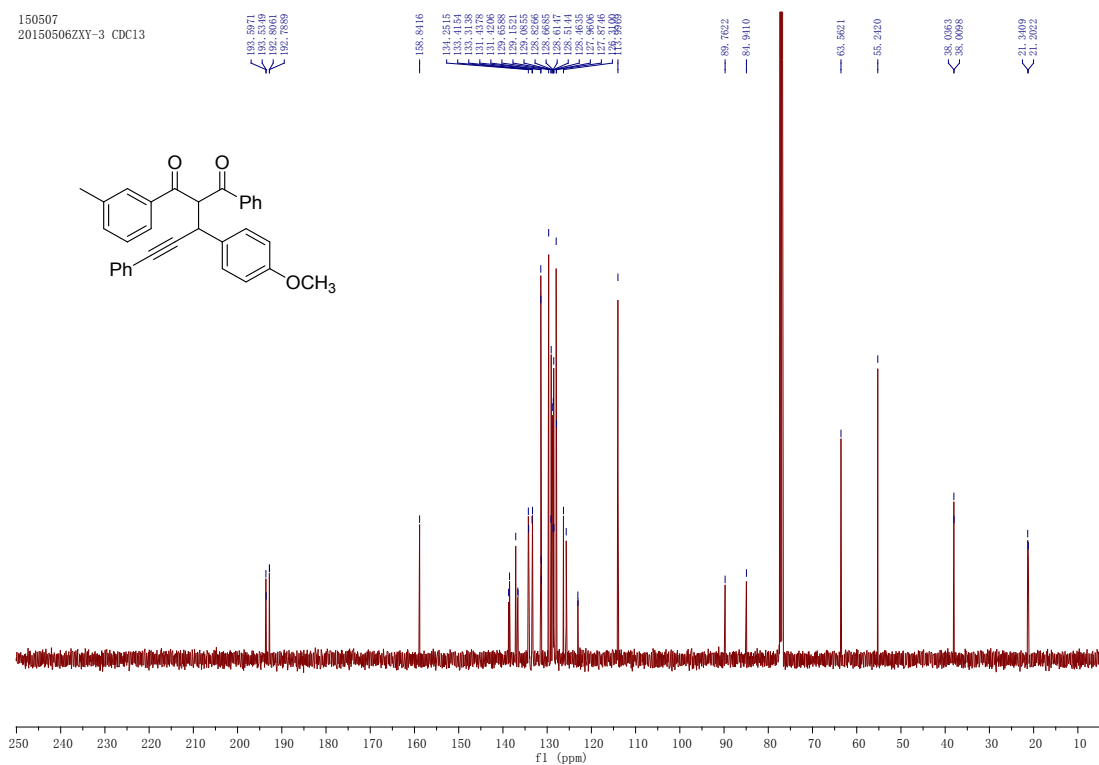


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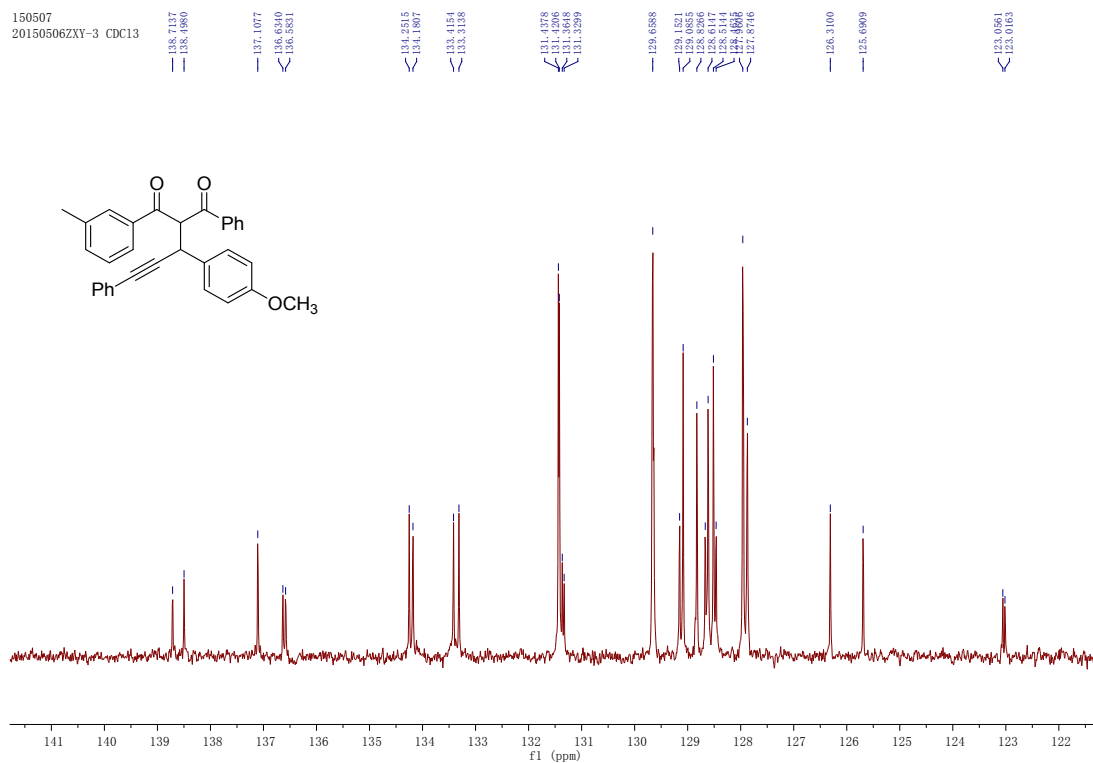




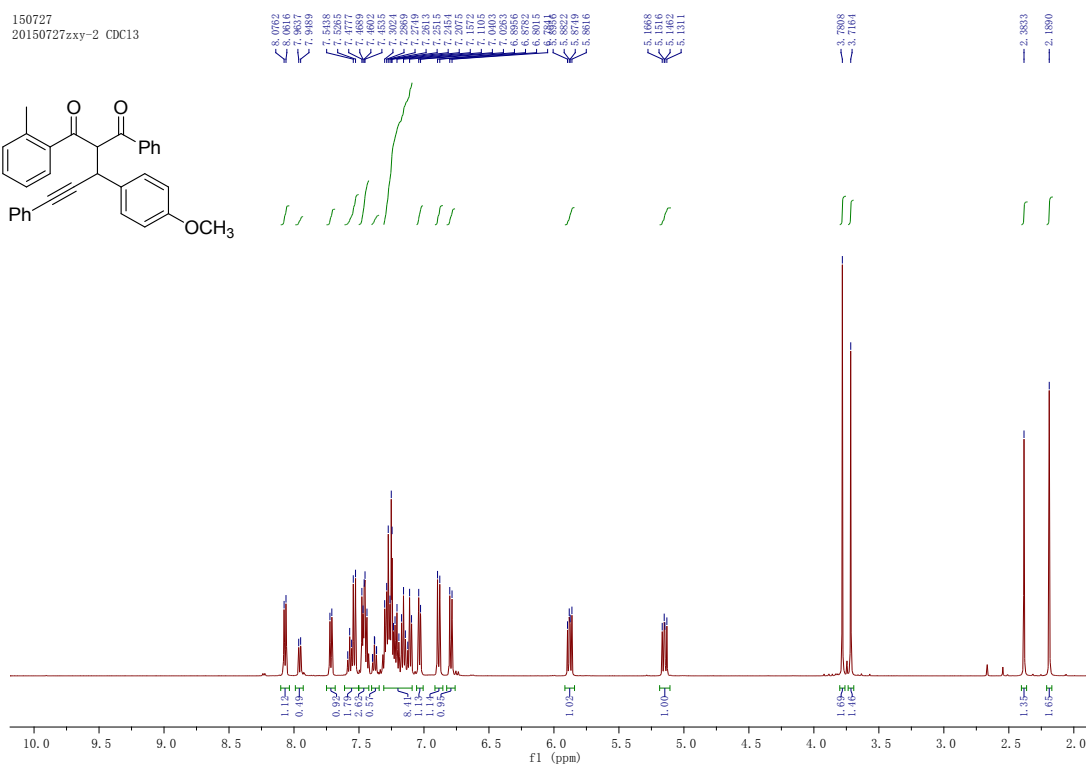
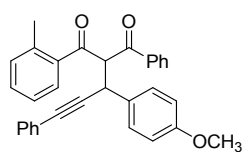
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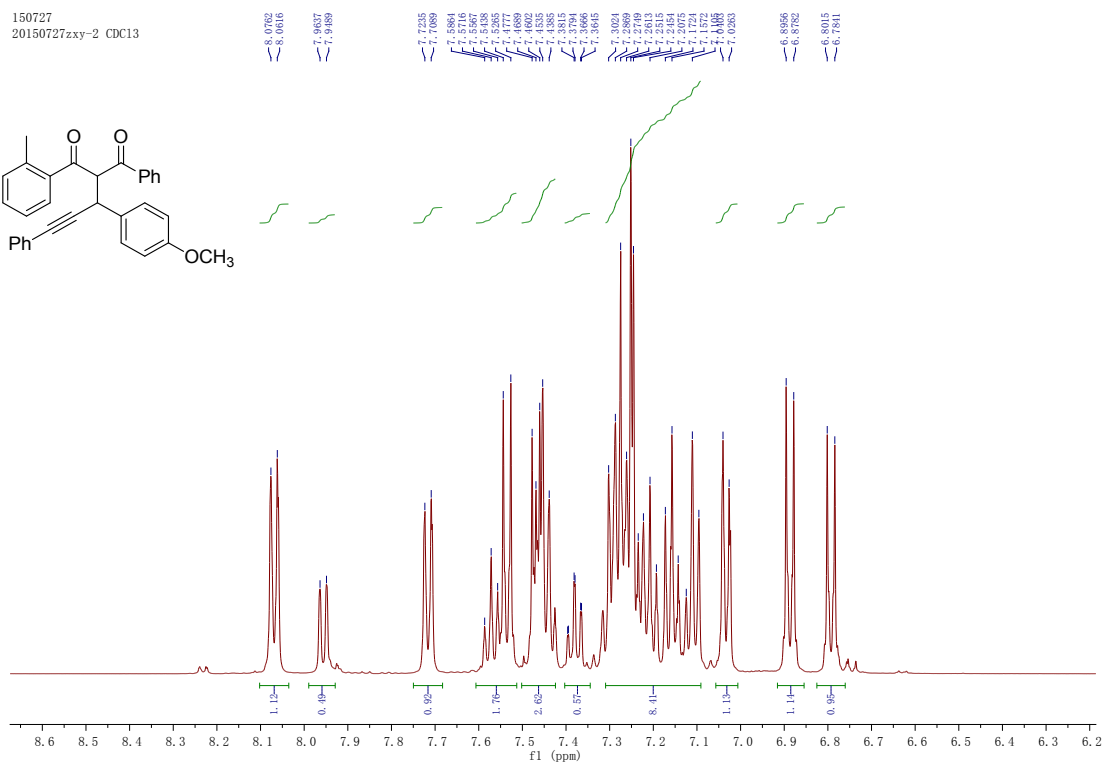
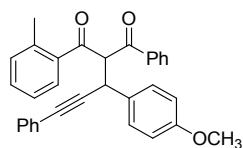
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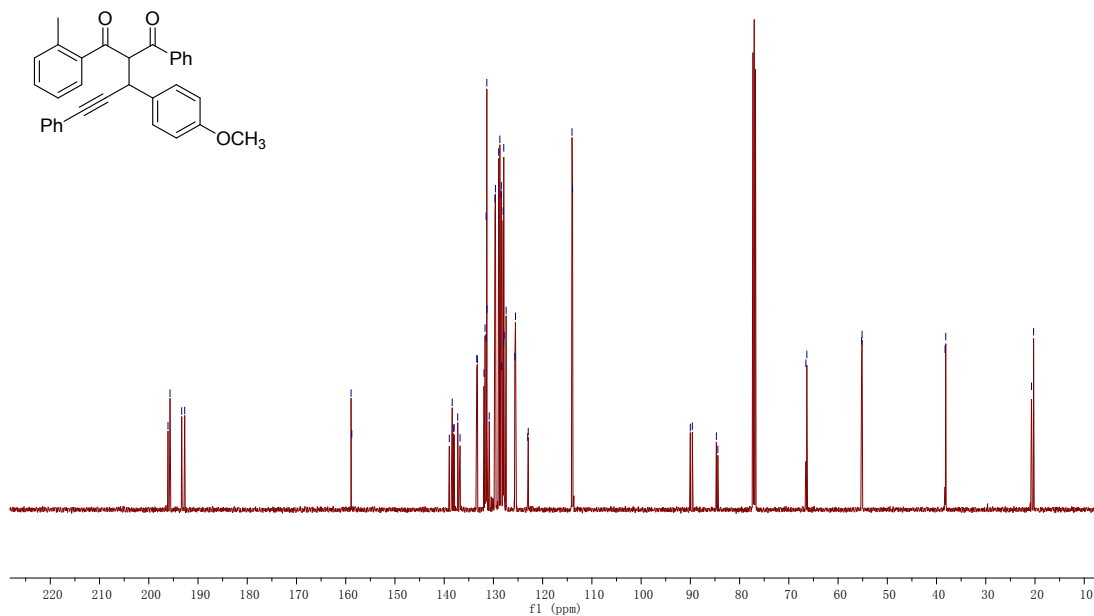
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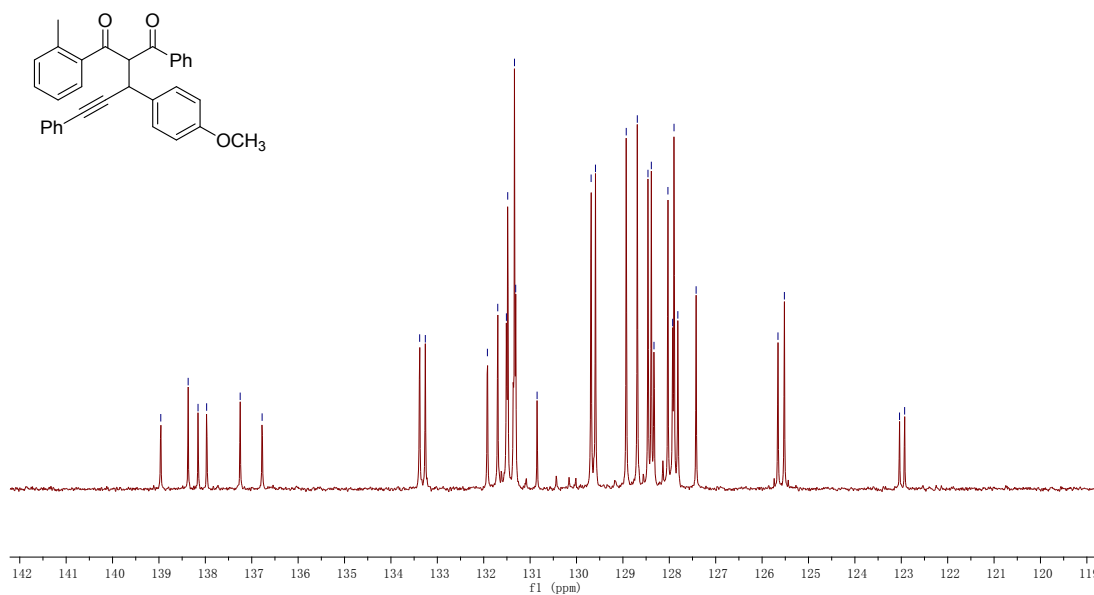
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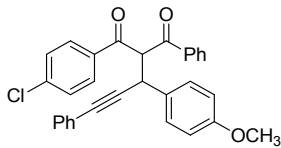
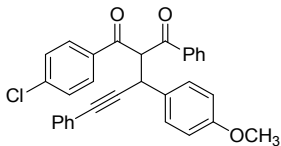
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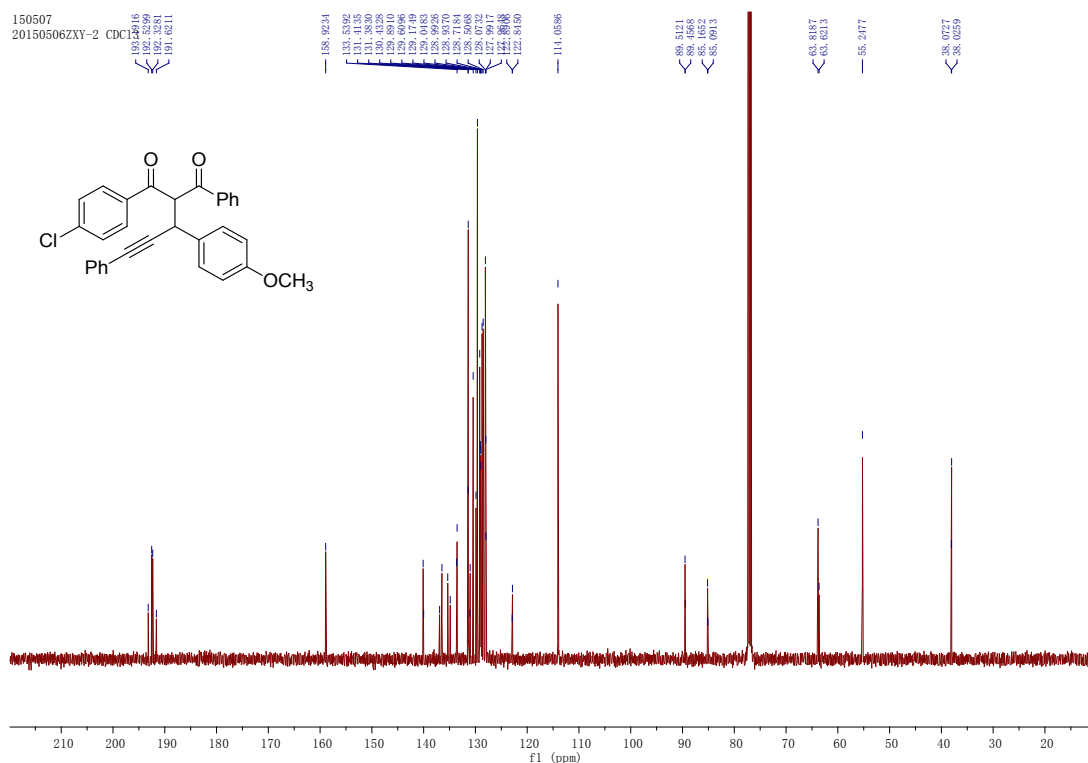
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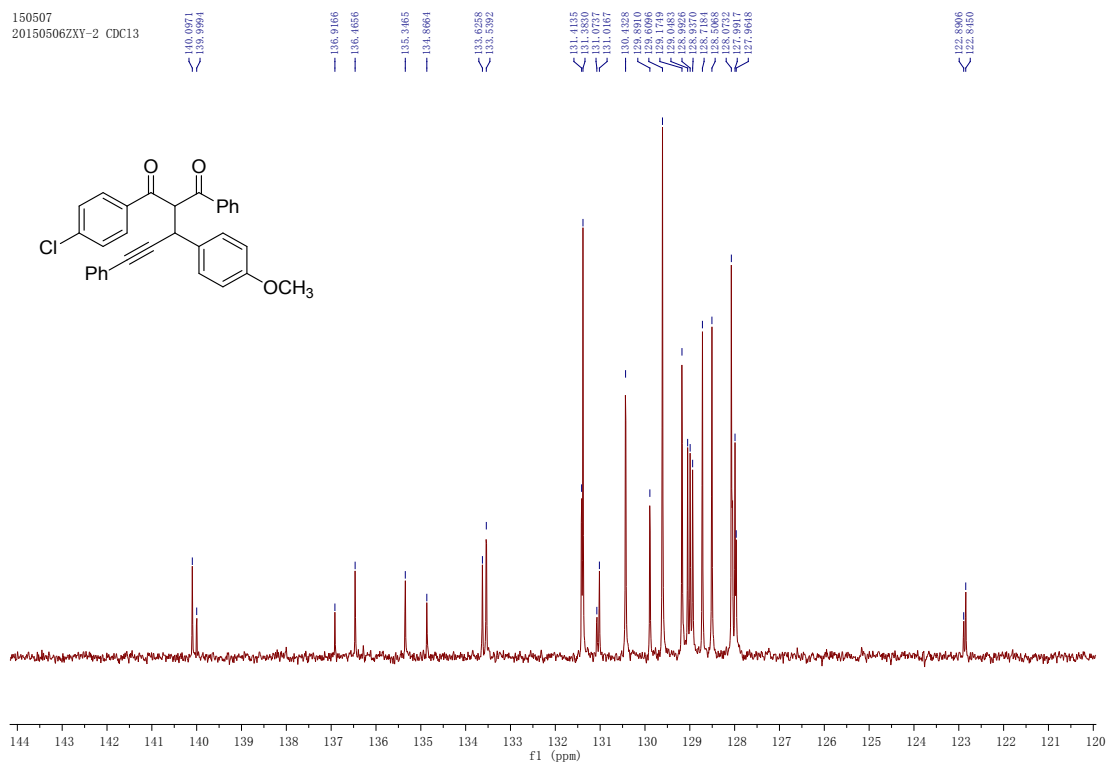


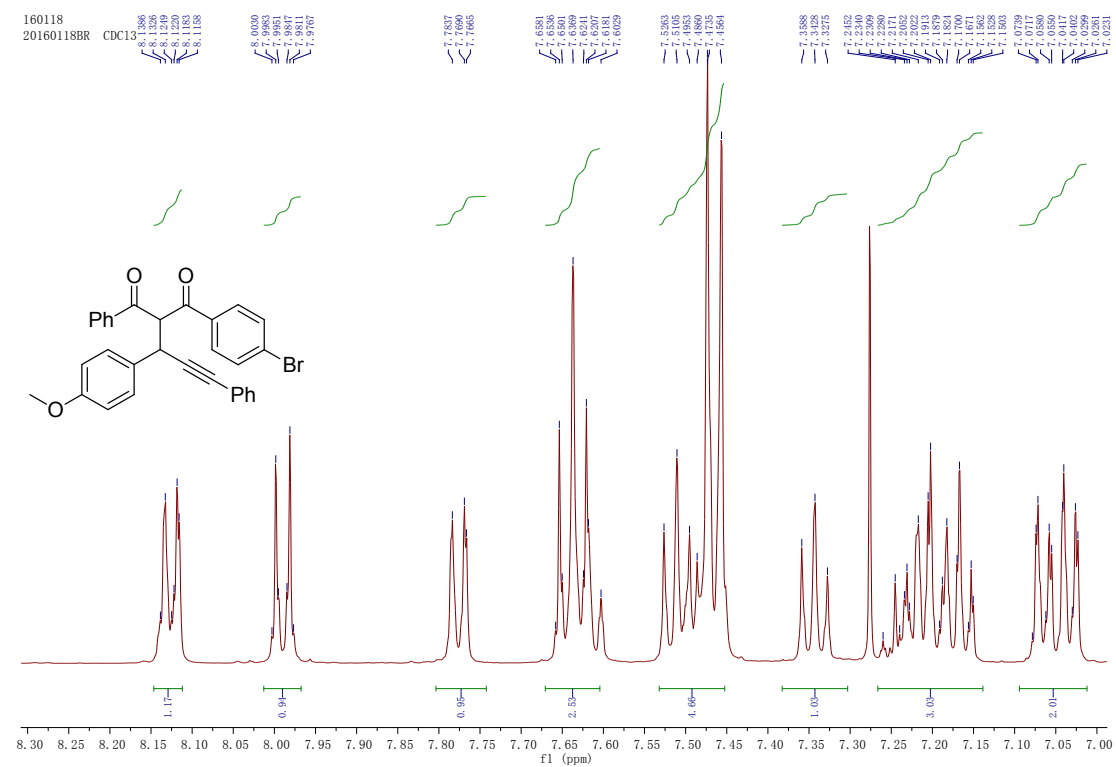
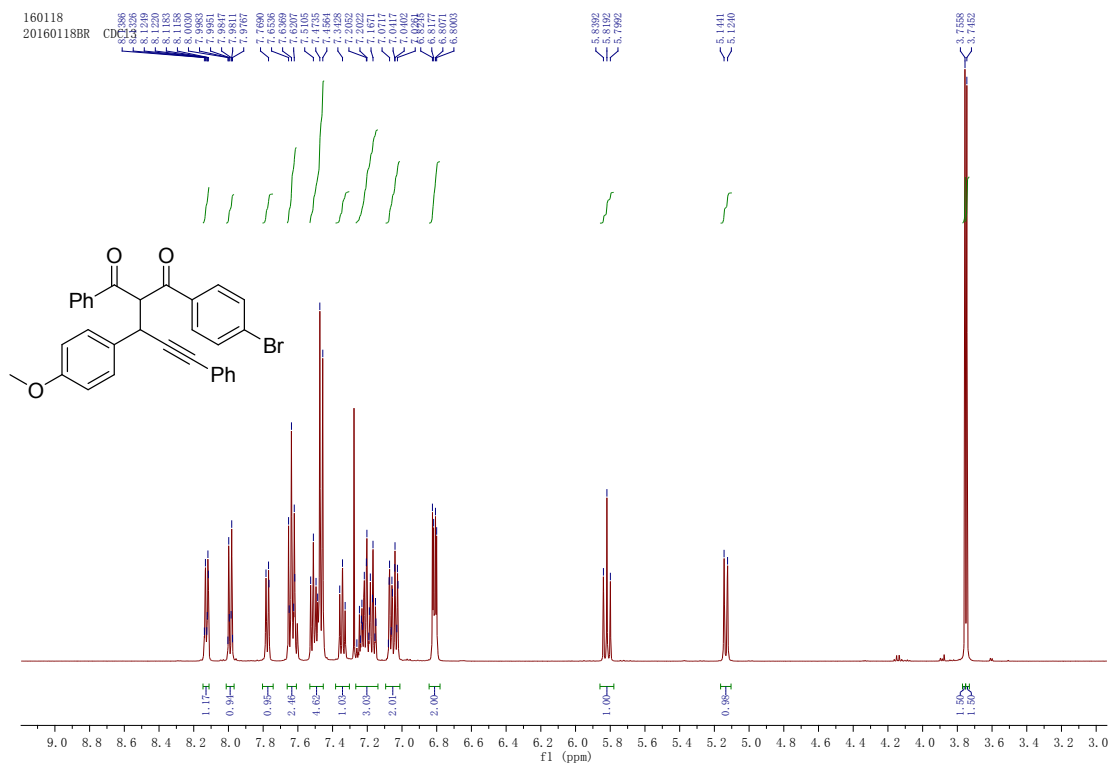


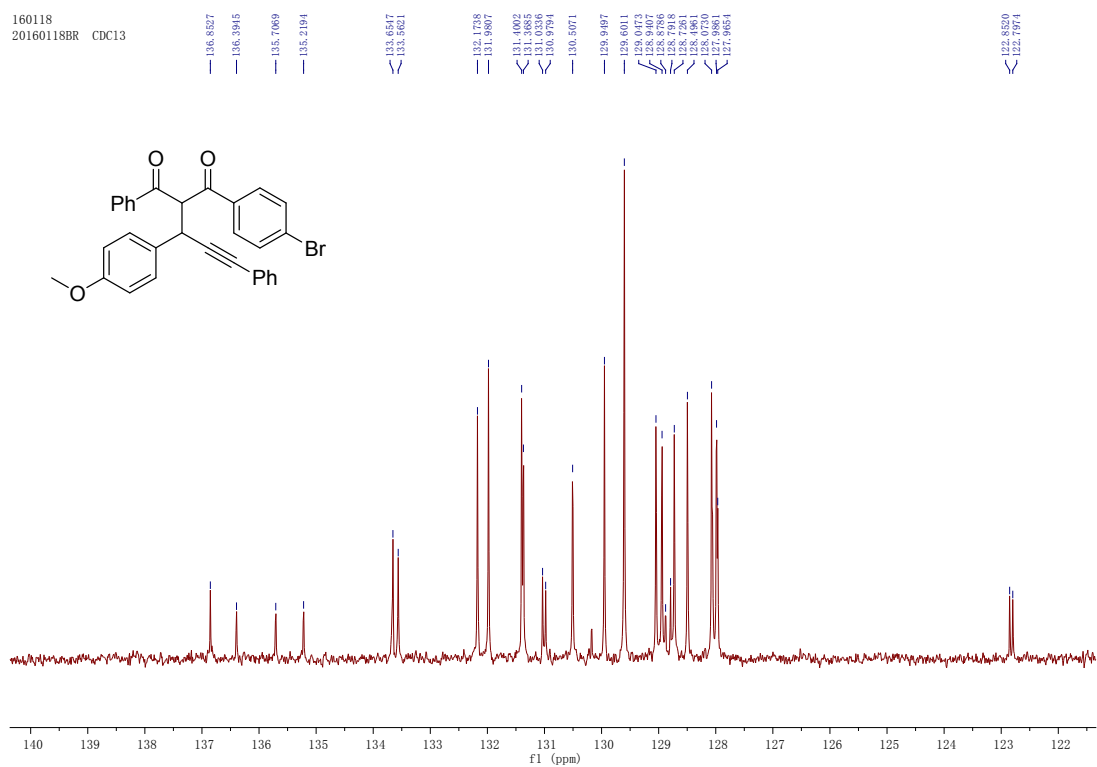
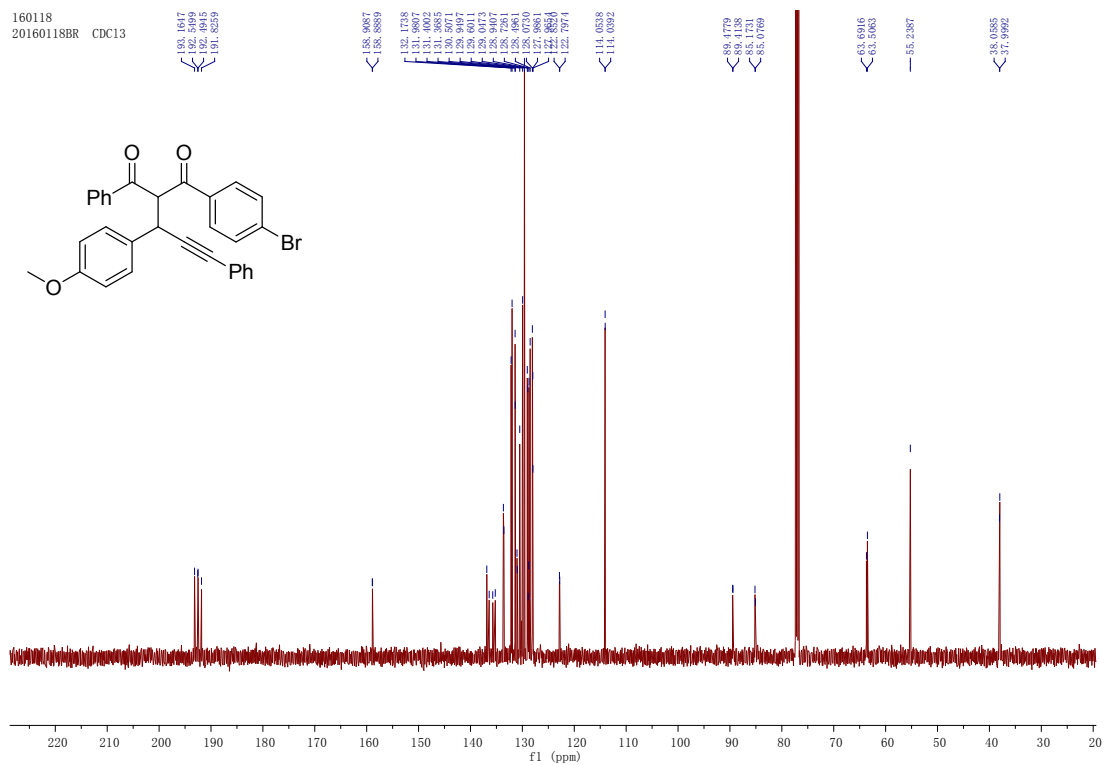
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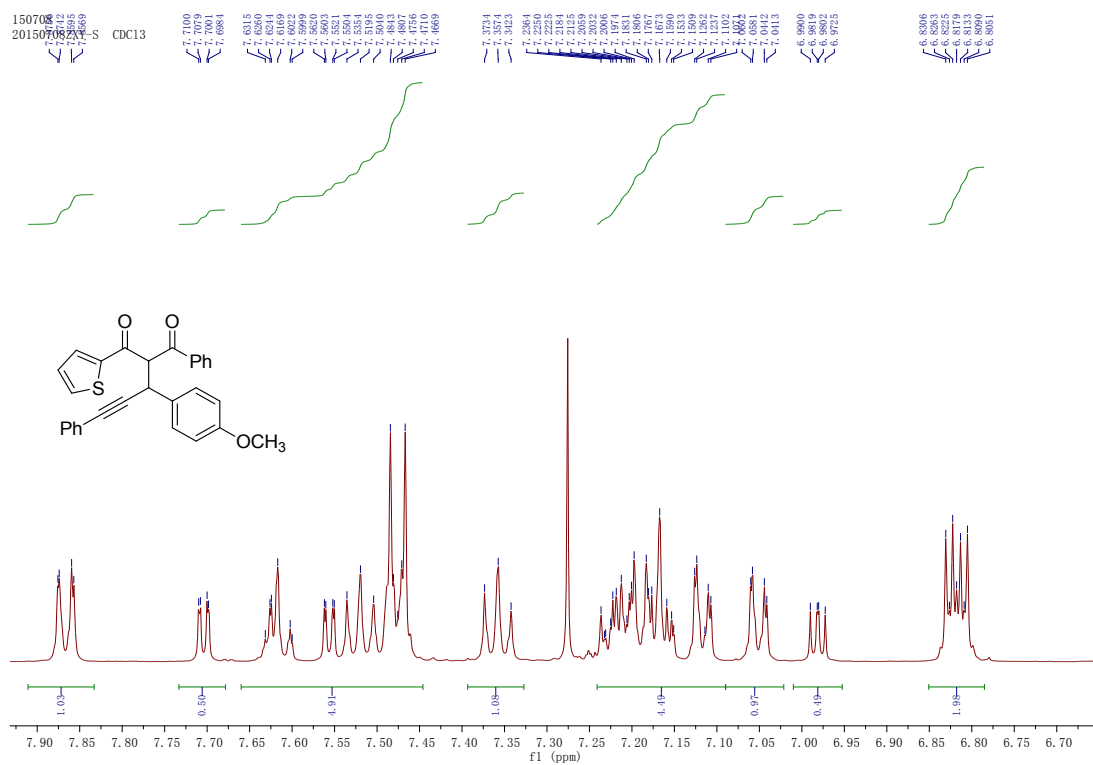
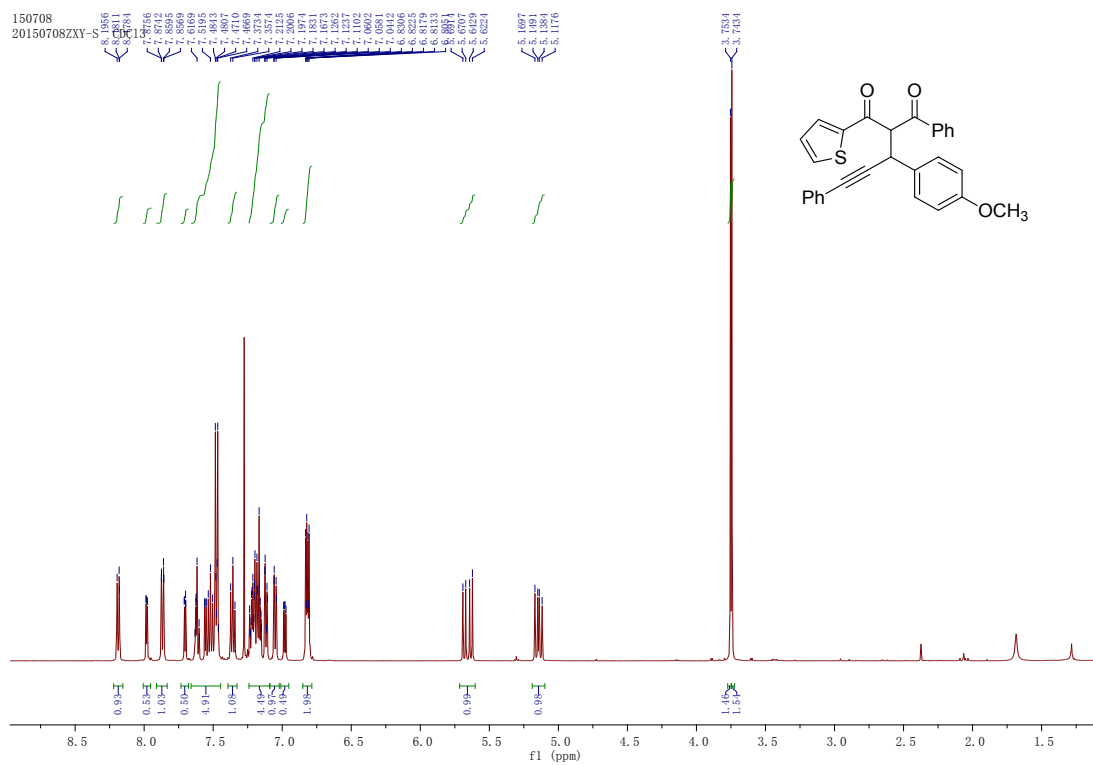


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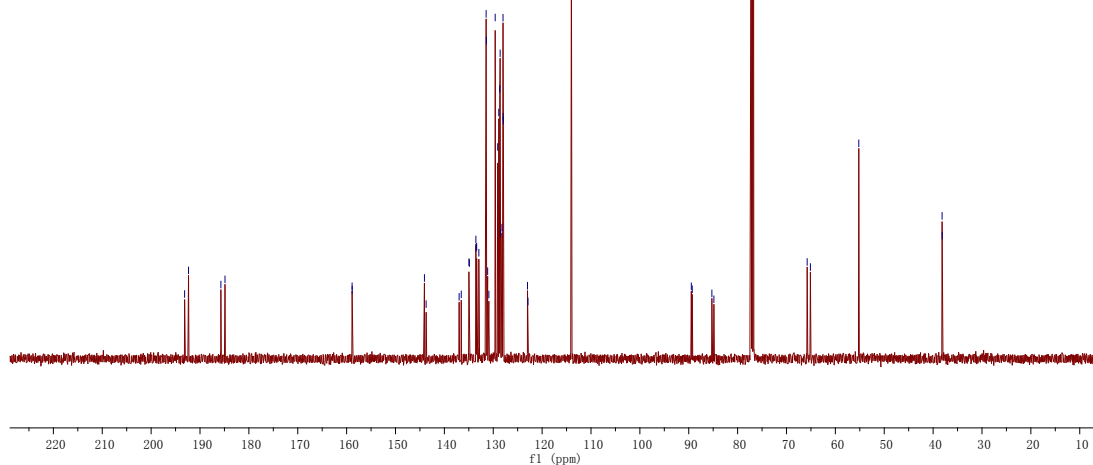
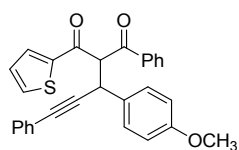
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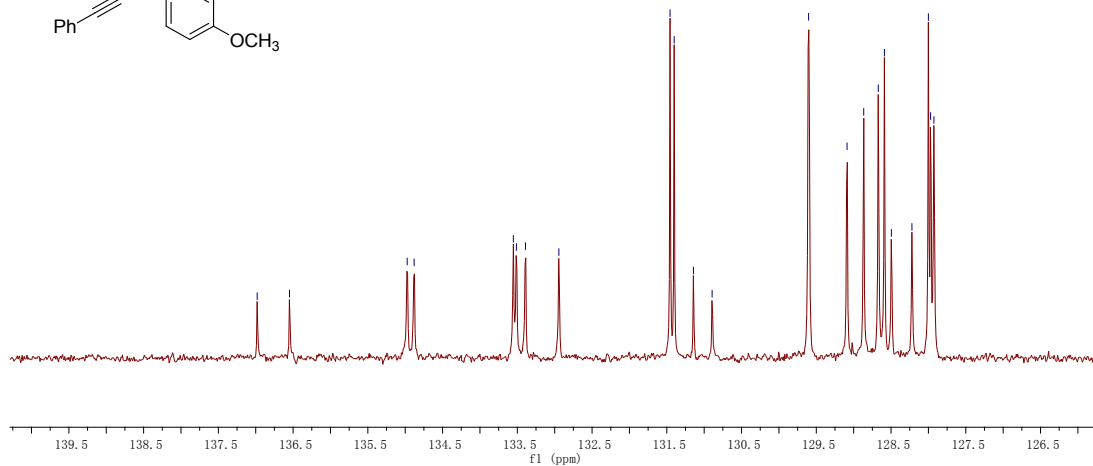
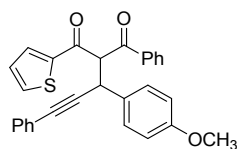
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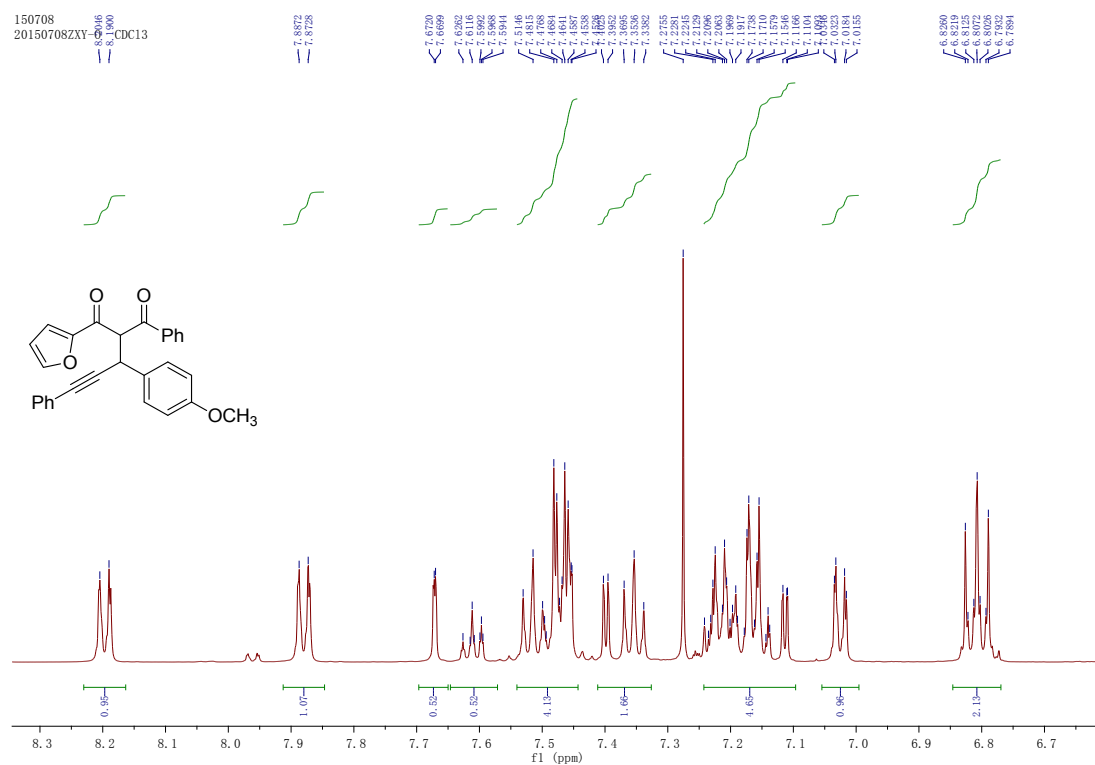
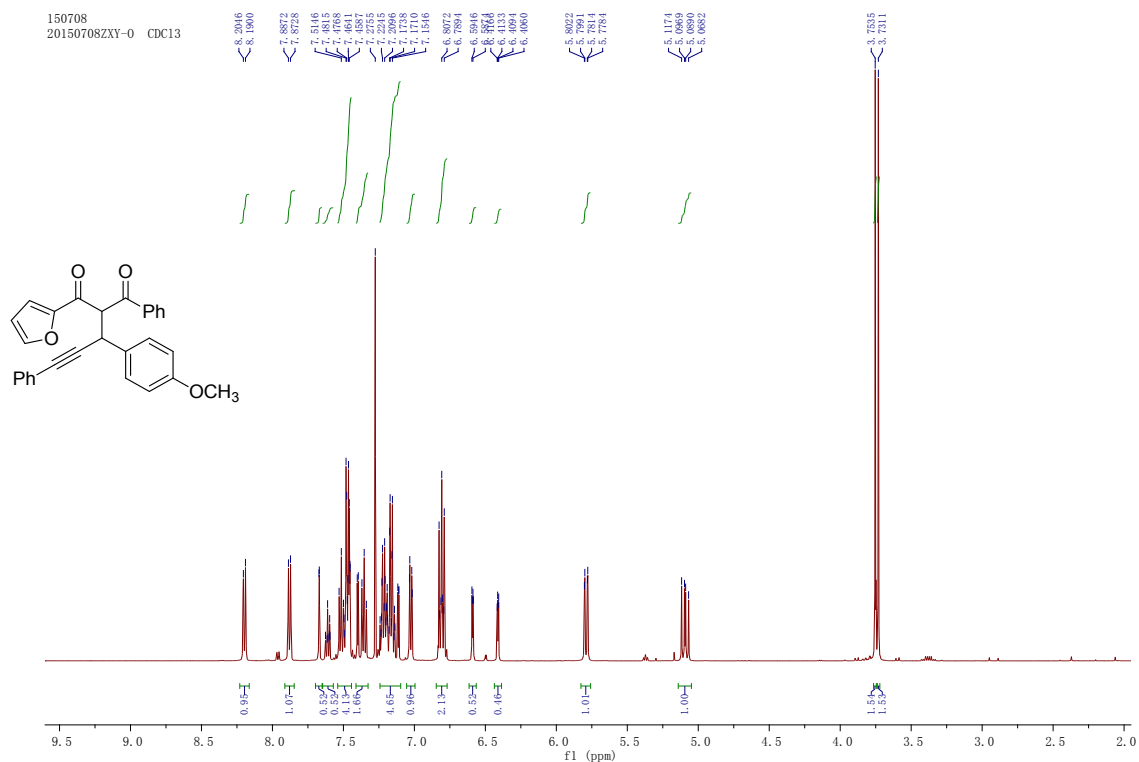
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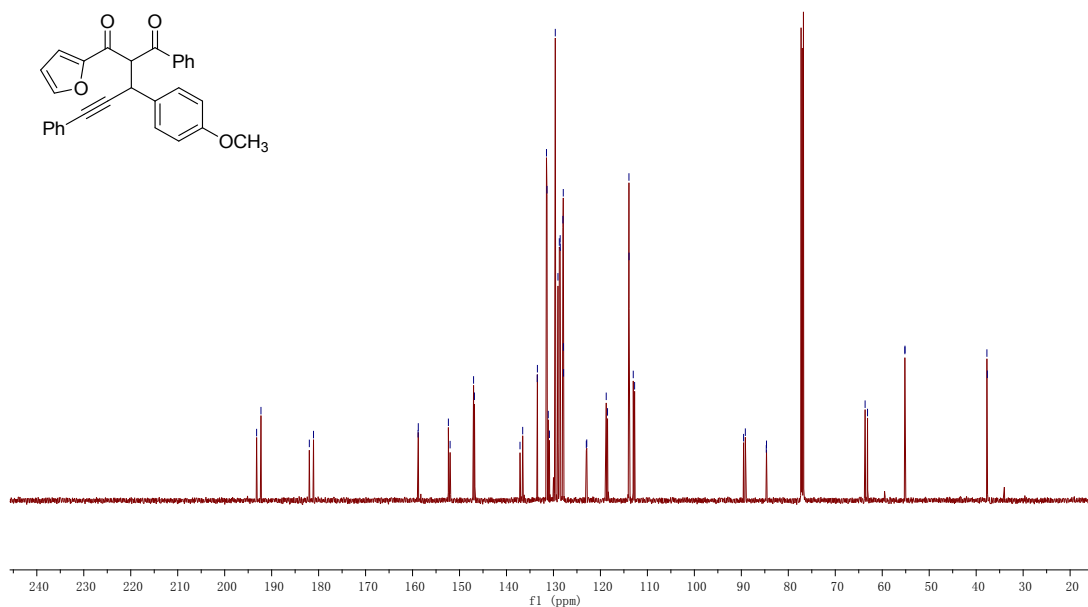
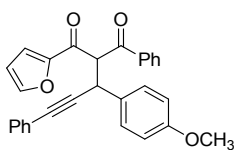
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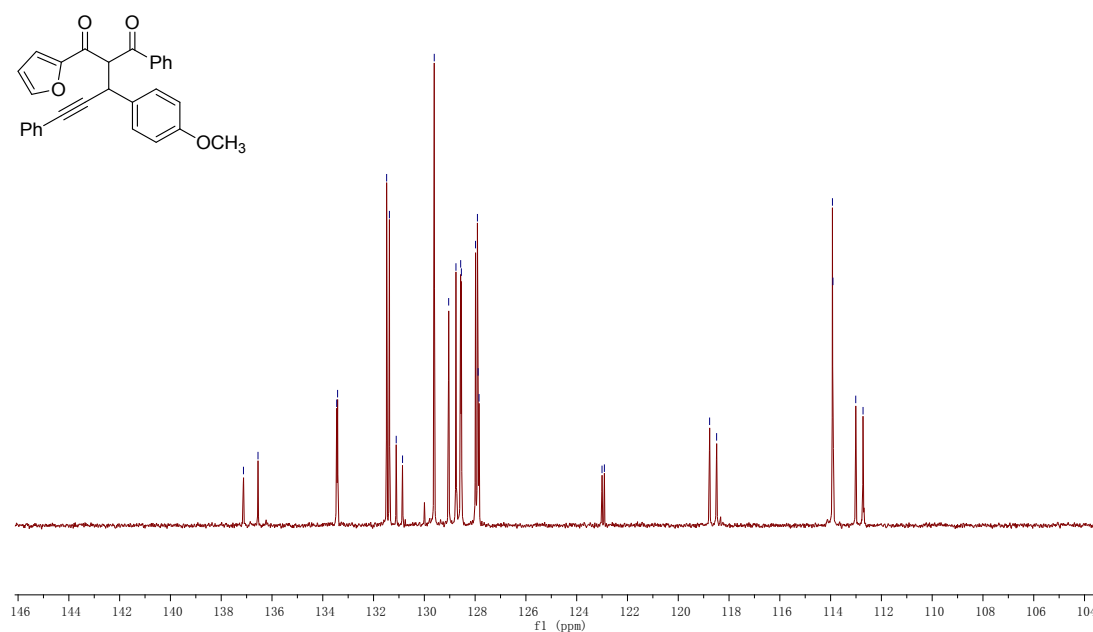
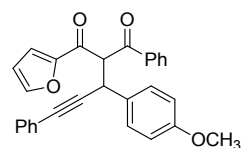
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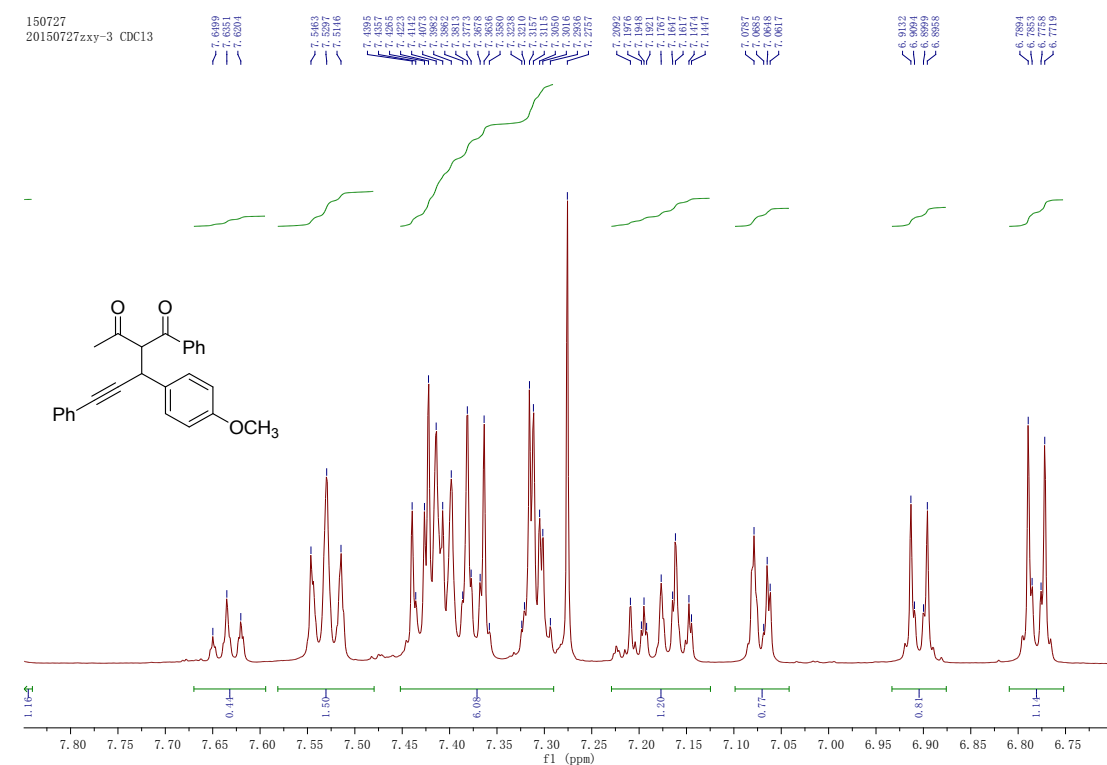
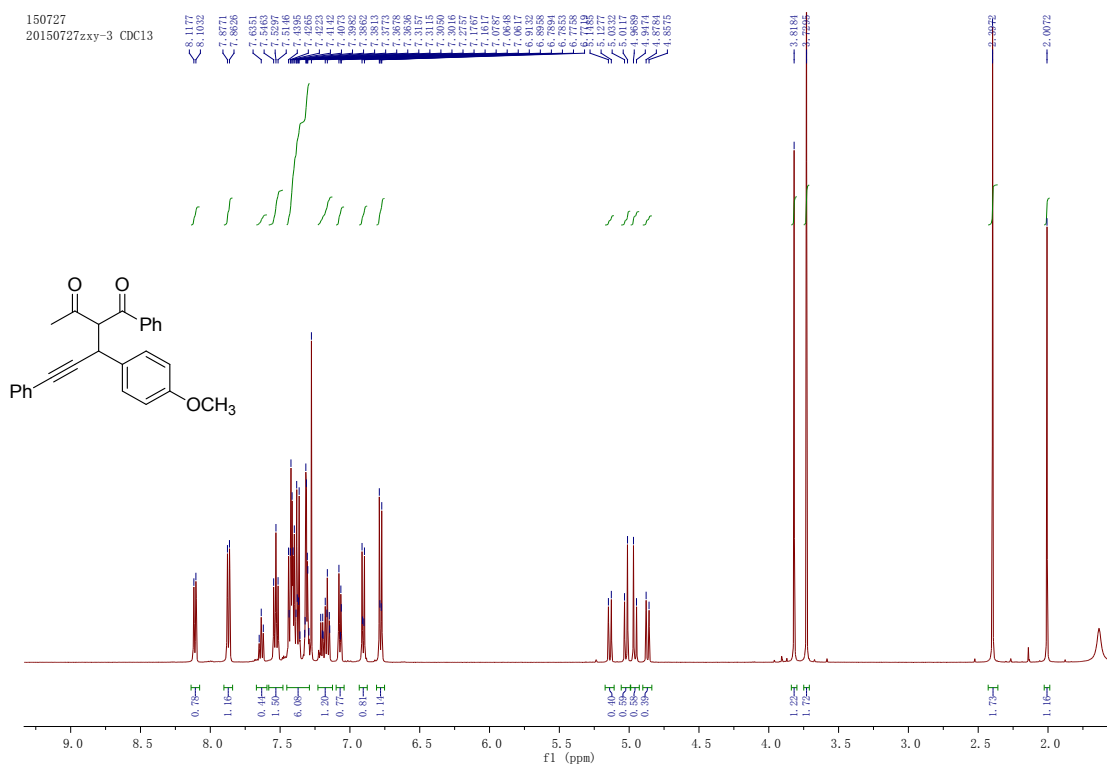
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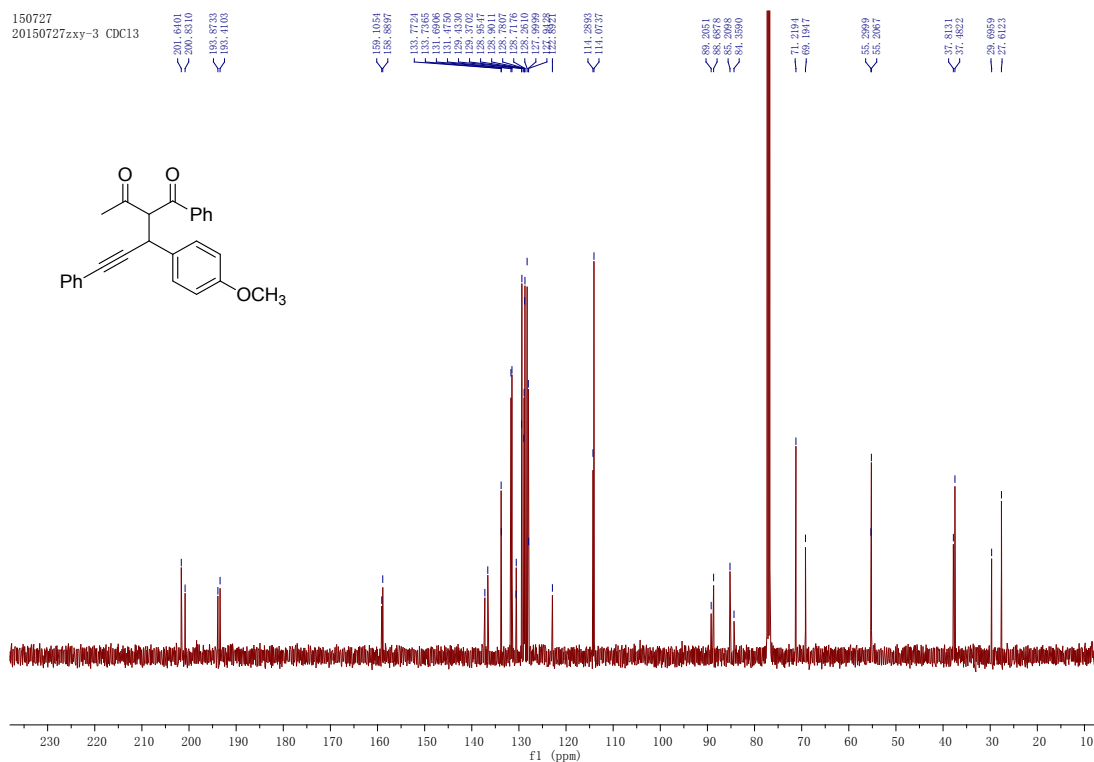
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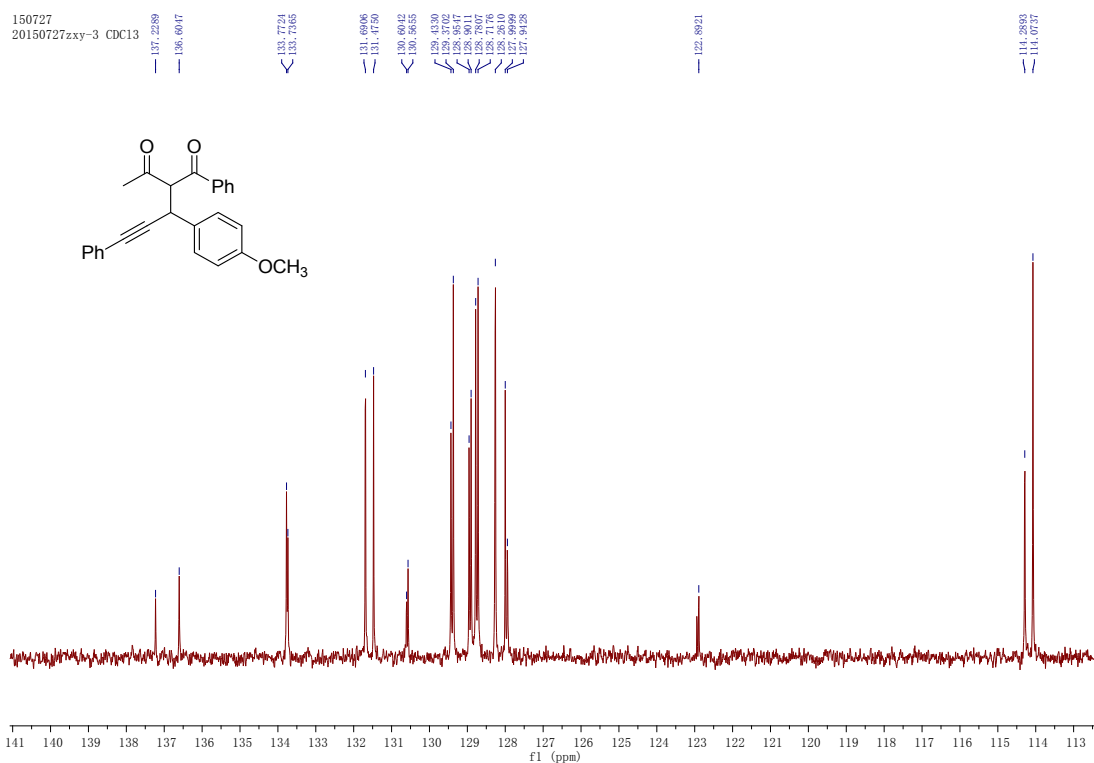




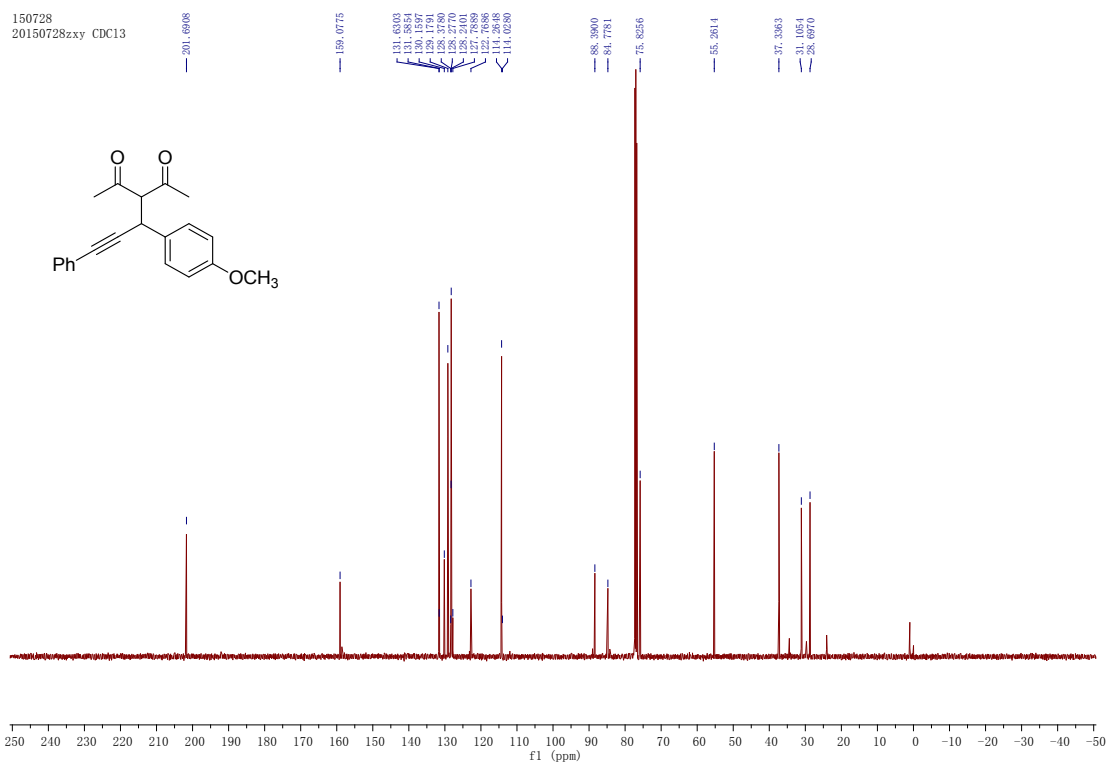
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