

Supporting Information for

Transition Synthesis of Indolo[2,1- α]isoquinoline Derivatives *via* Metal-free Radical Cascade Cyclization

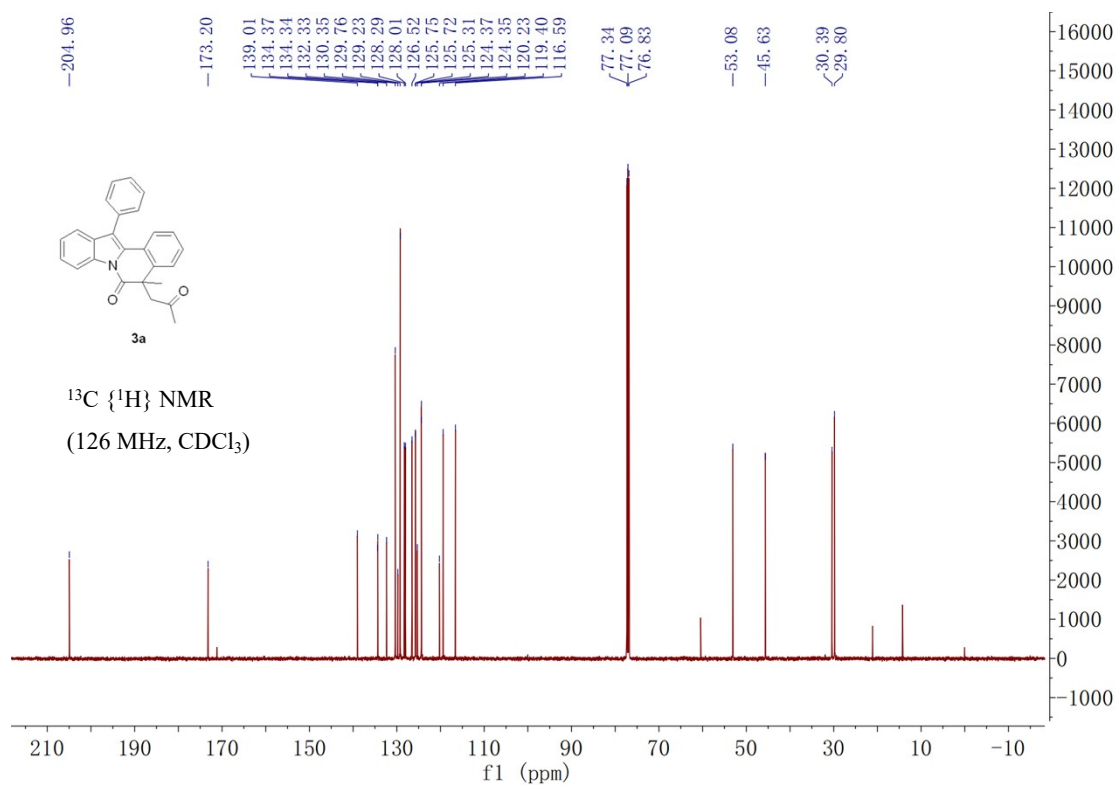
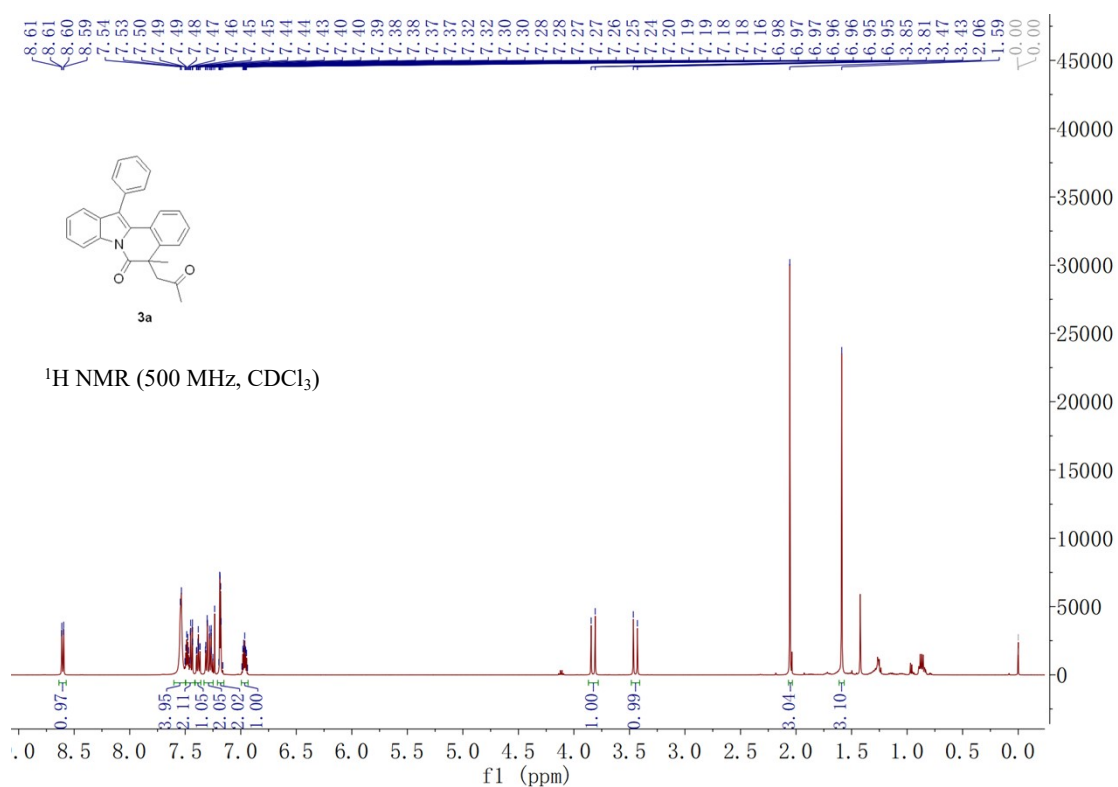
Xu-Yang Hu, Hai-Feng Xu, Qiang Chen, You-Lu Pan*, Jian-Zhong Chen *.
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Hangzhou, Zhejiang, P. R. China

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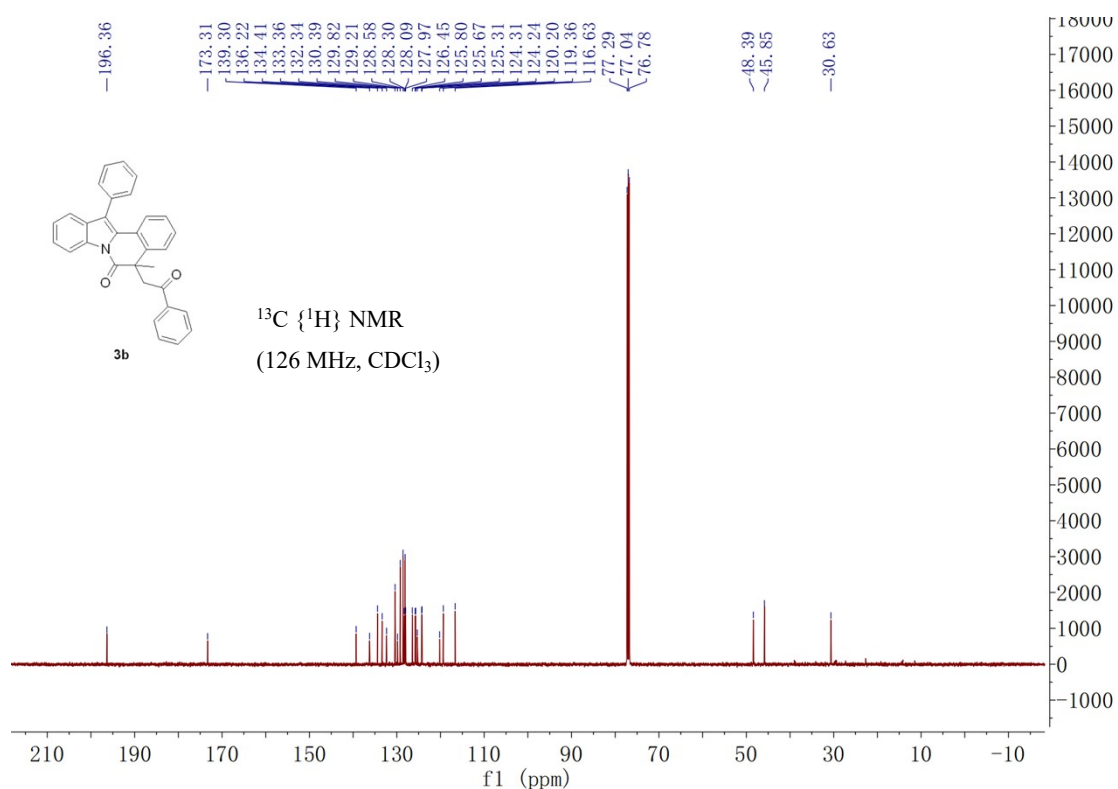
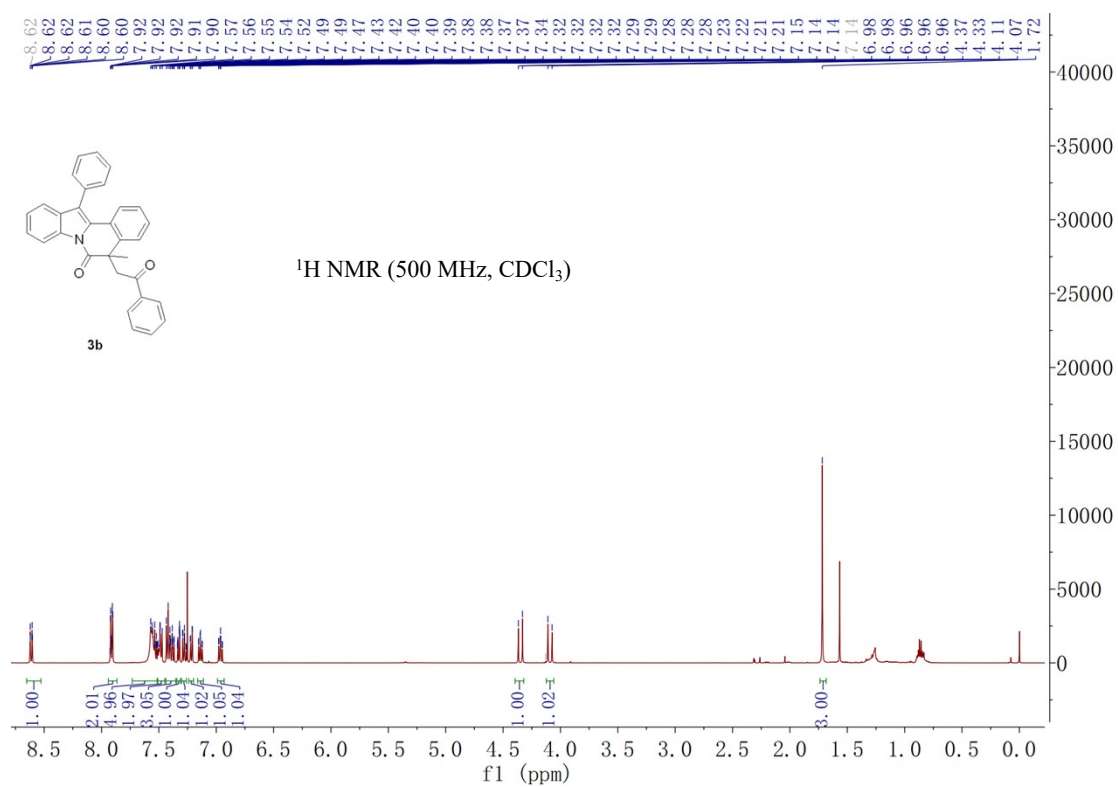
Copies of ^1H and ^{13}C NMR Spectra	2
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Copies of ^1H and ^{13}C NMR Spectra

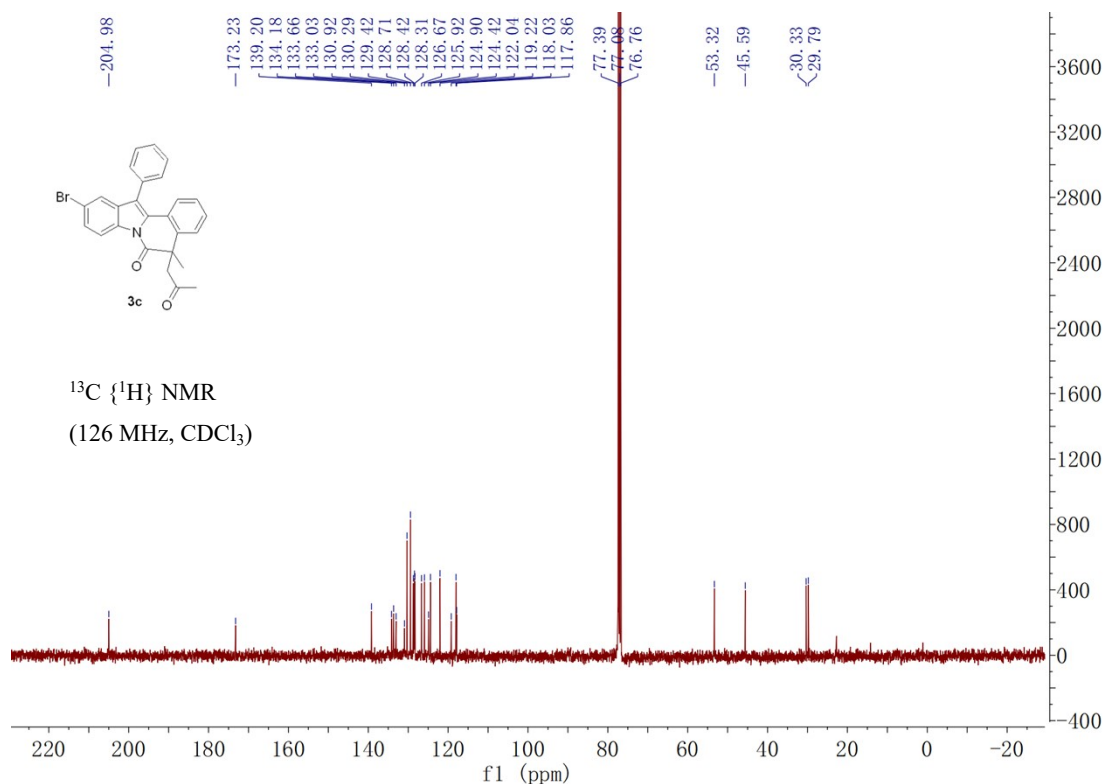
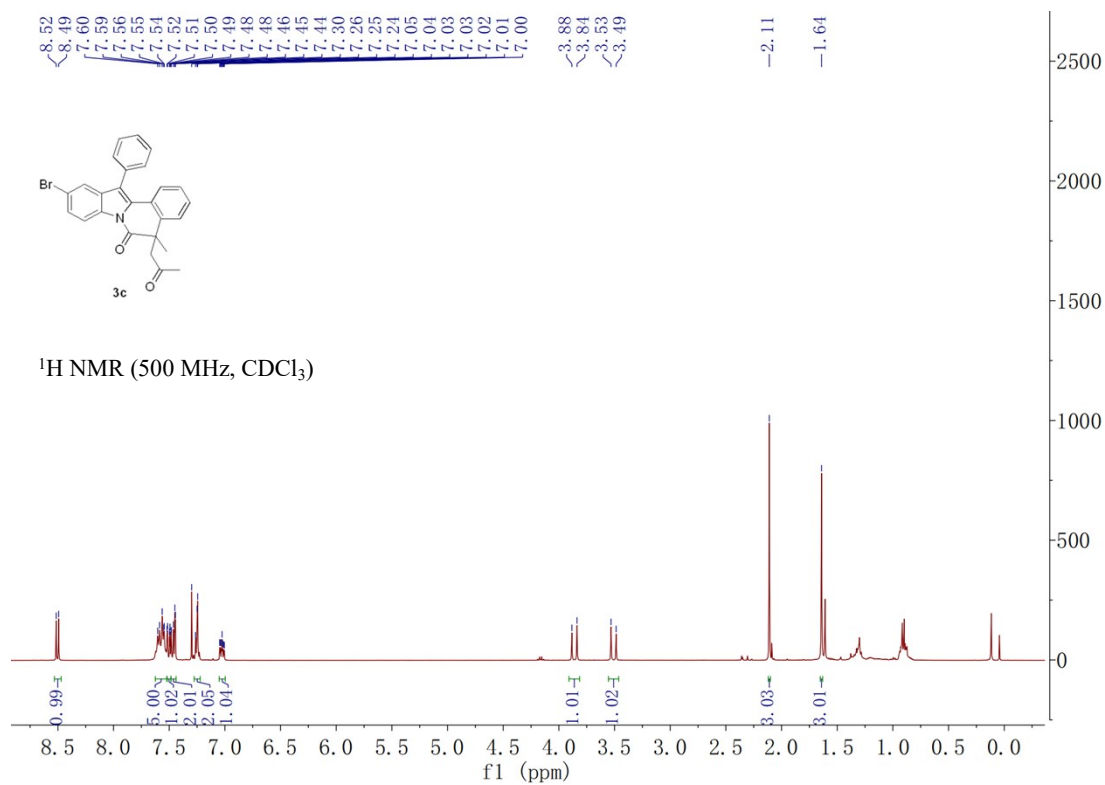
5-methyl-5-(2-oxopropyl)-12-phenylindolo[2,1- α]isoquinolin-6(5H)-one **3a**



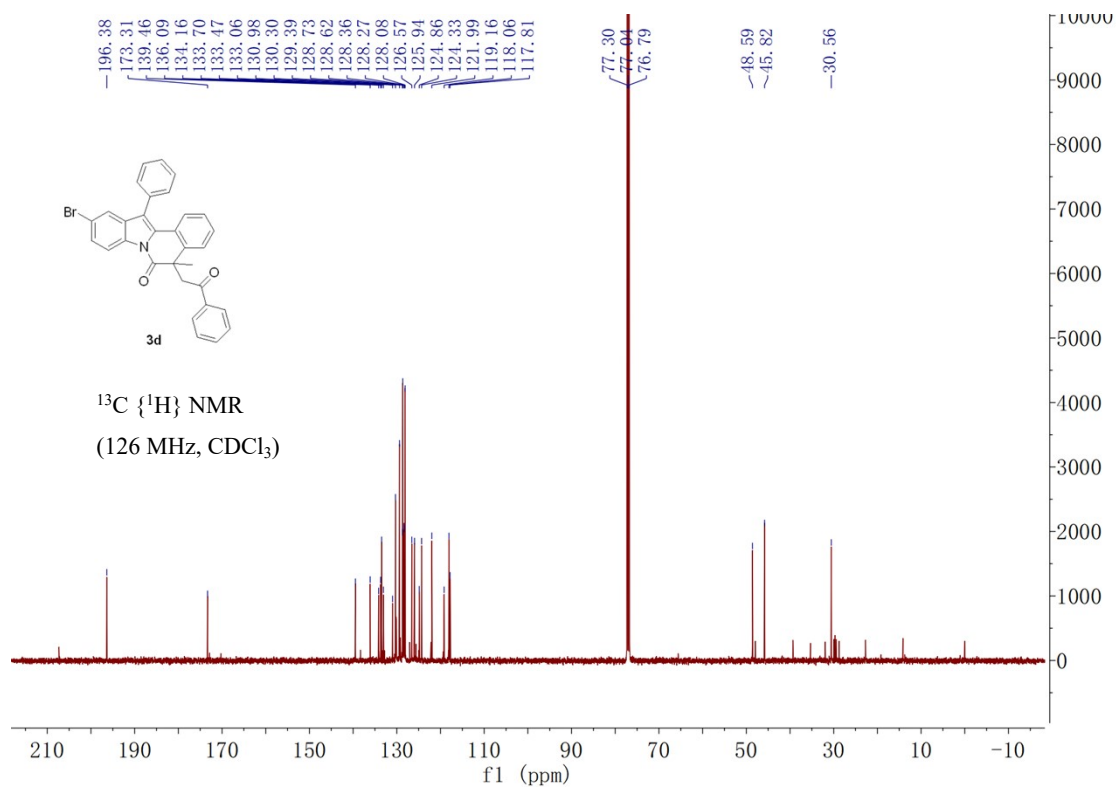
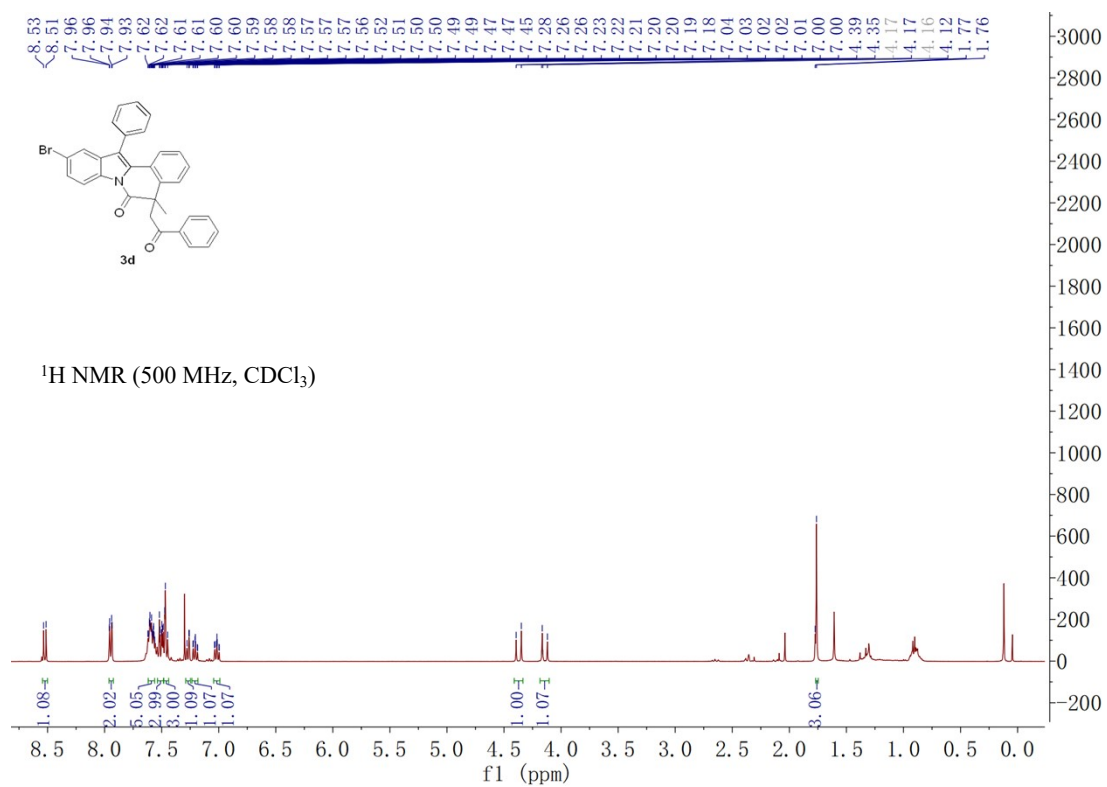
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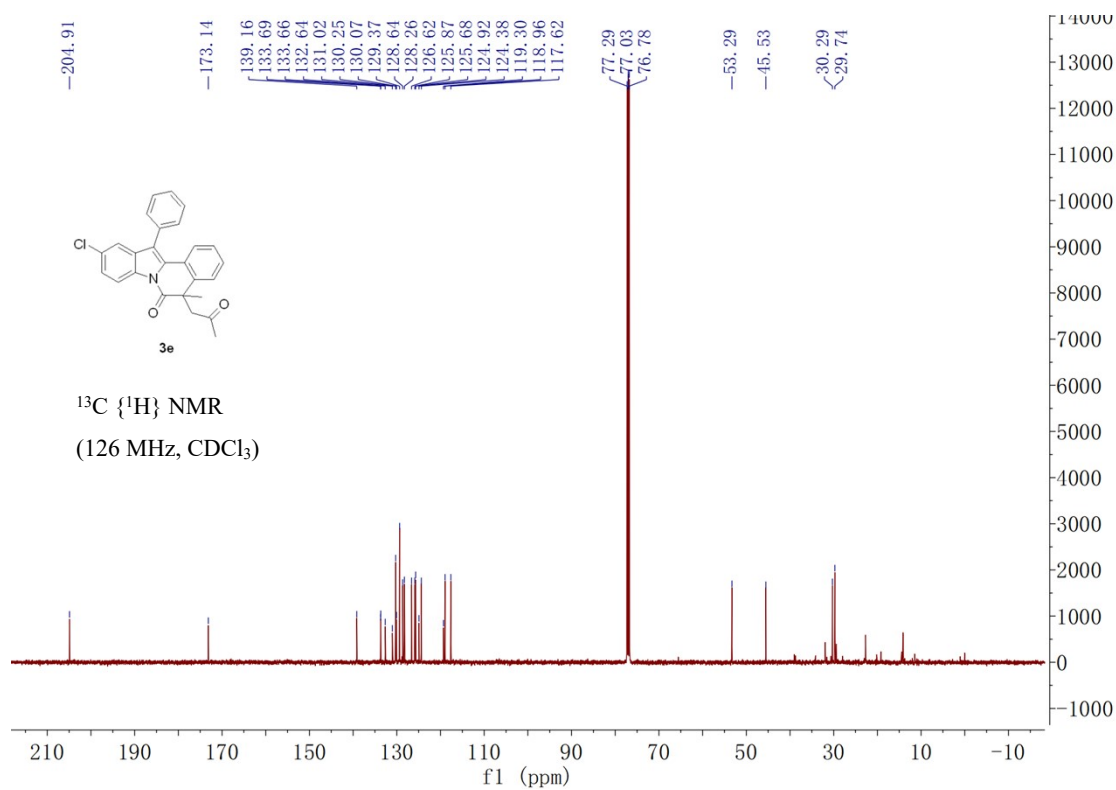
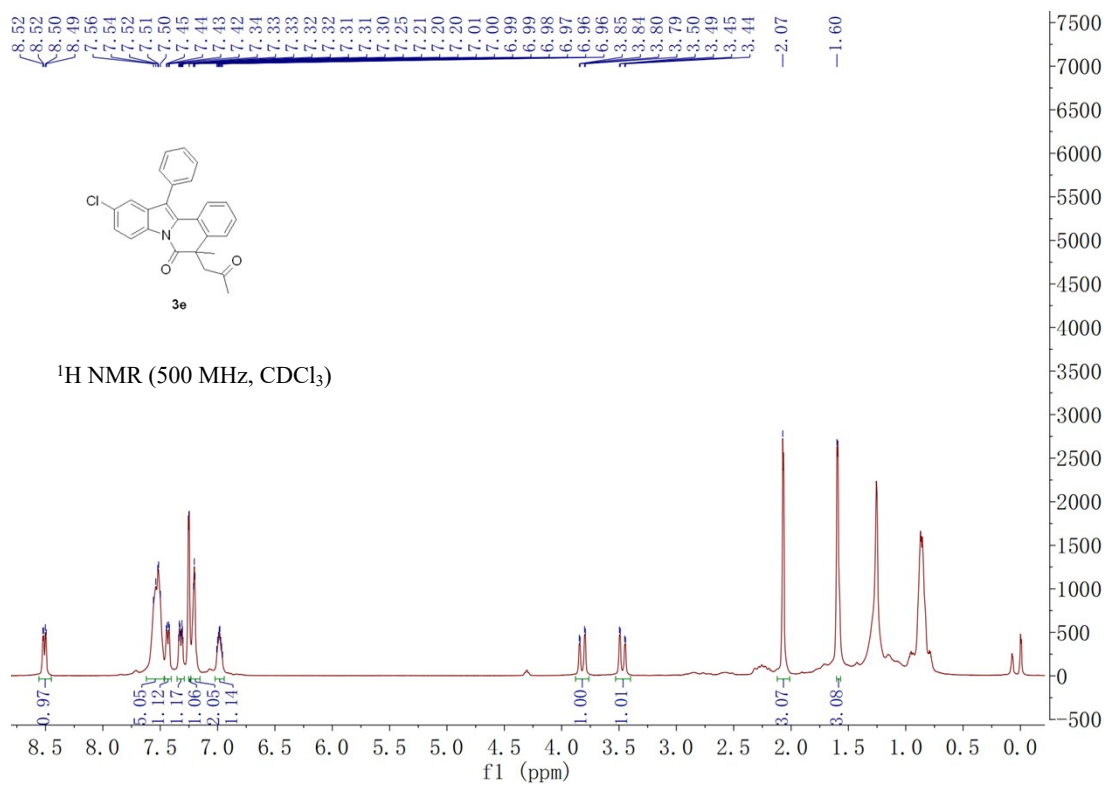
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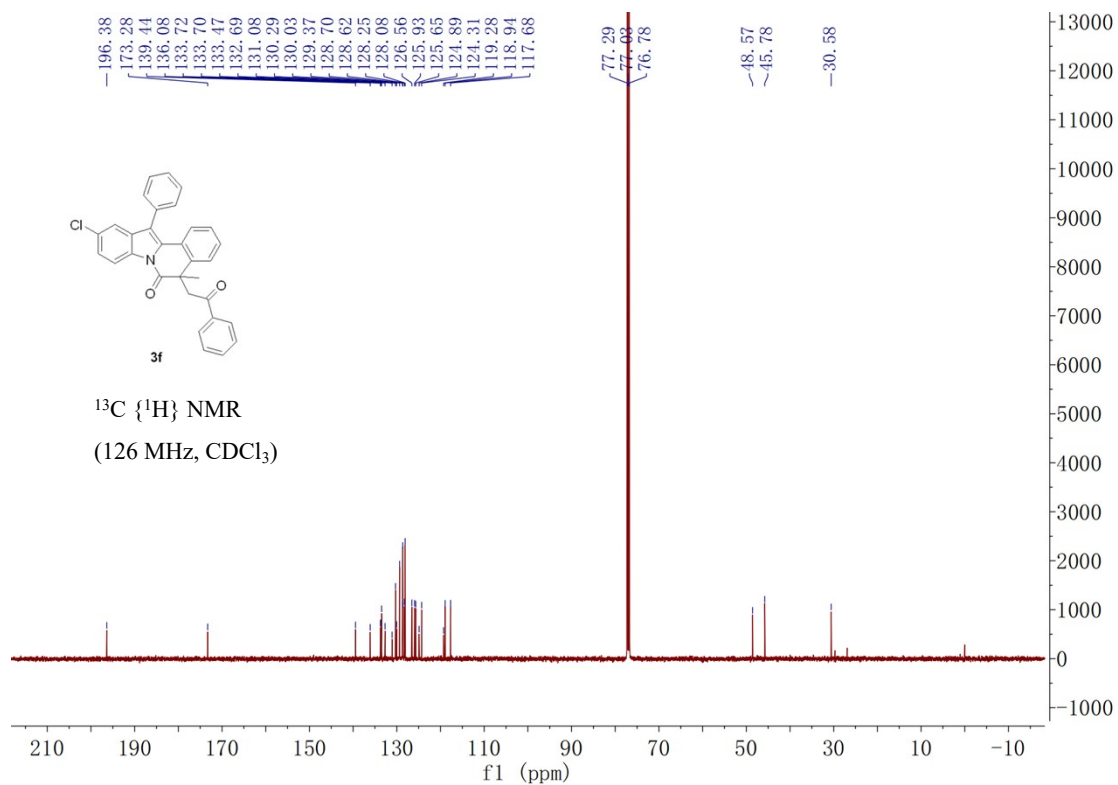
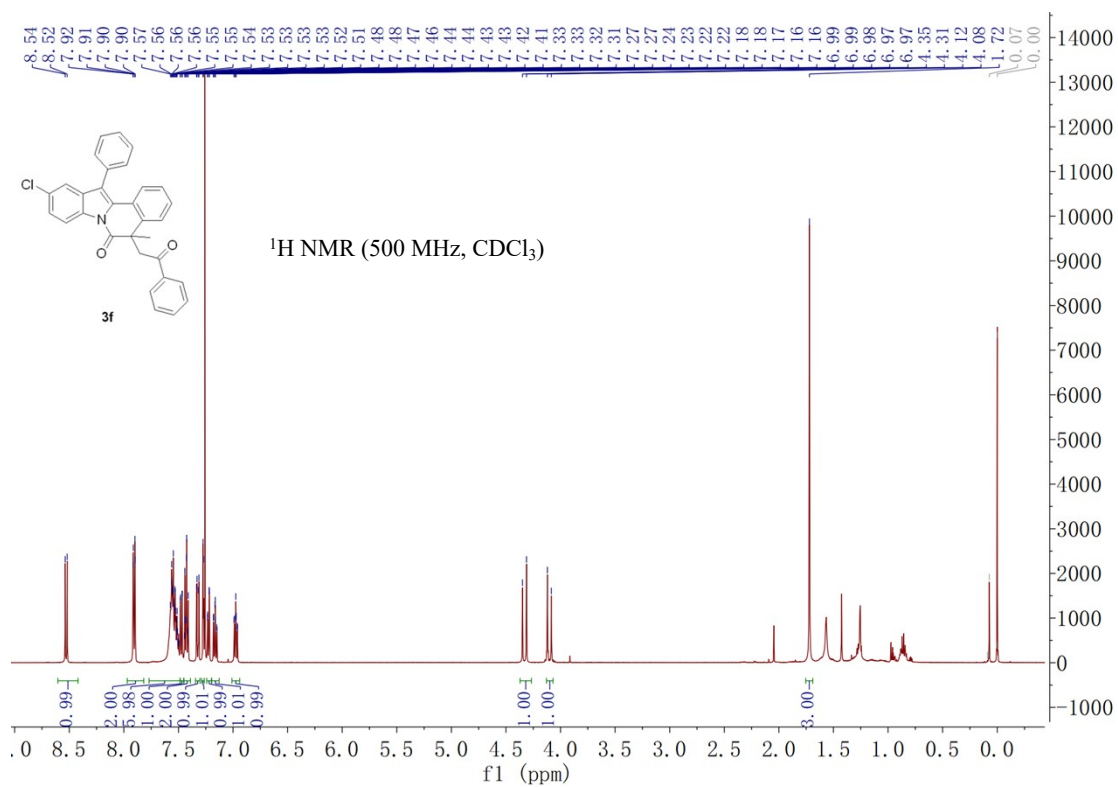
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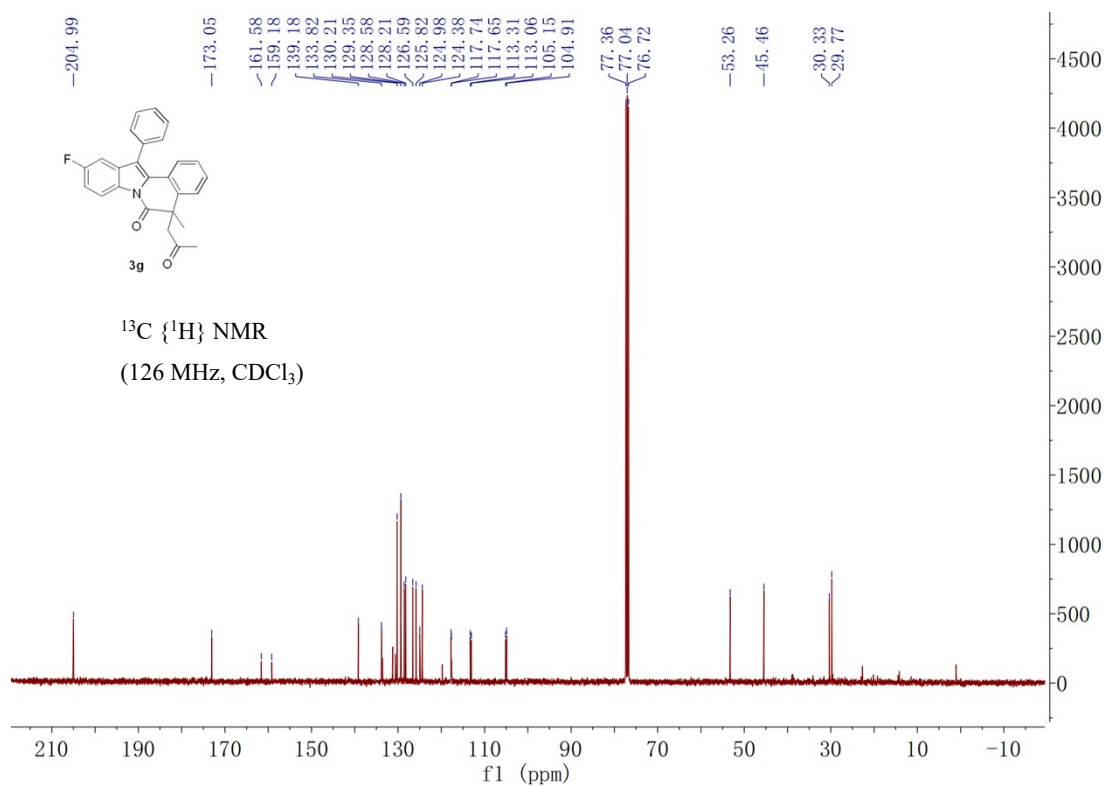
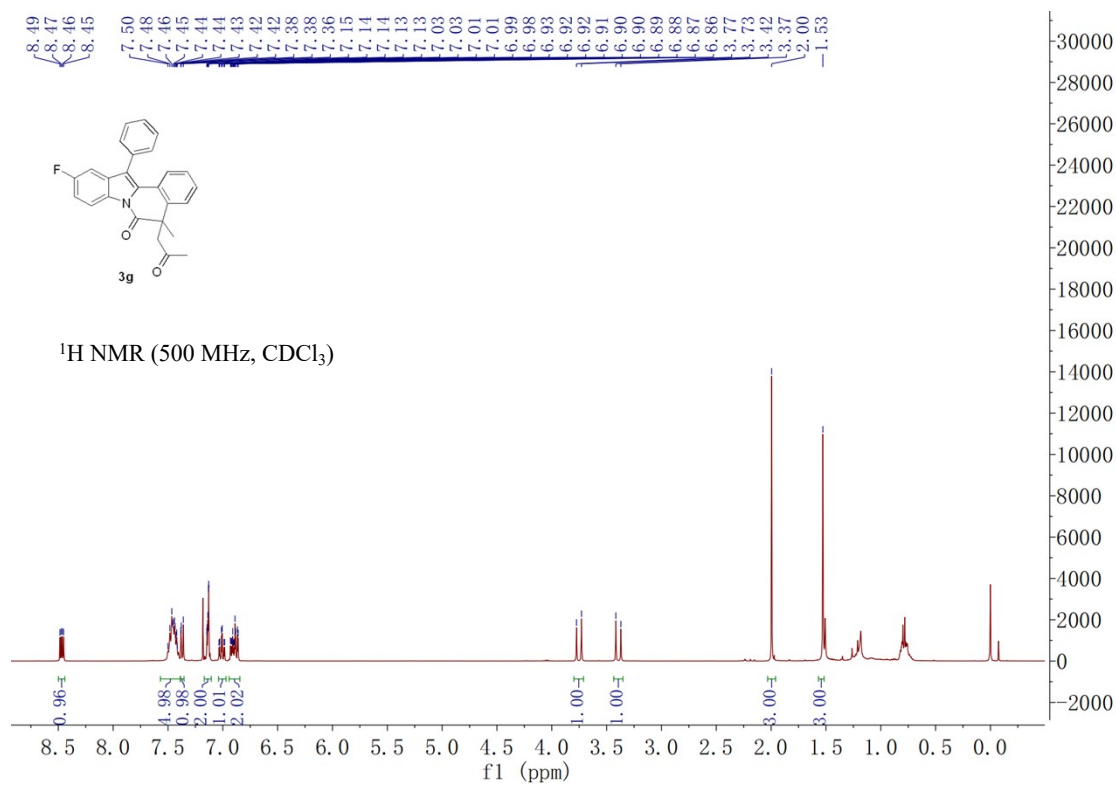
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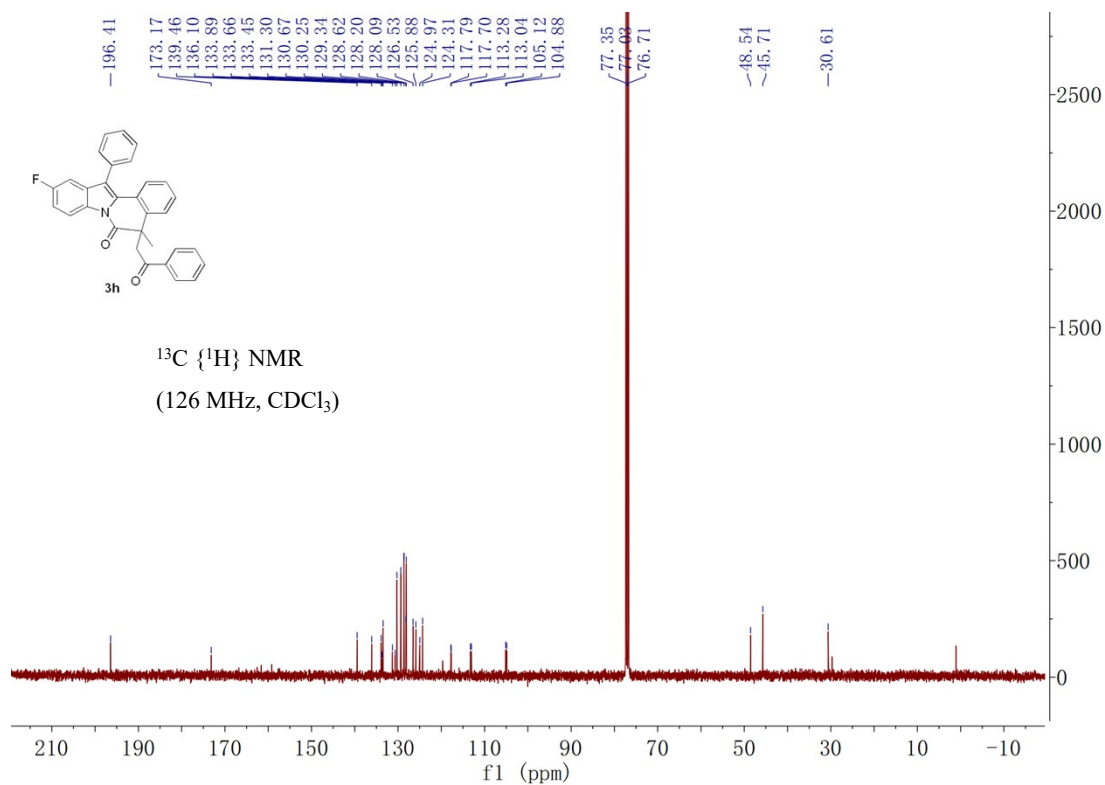
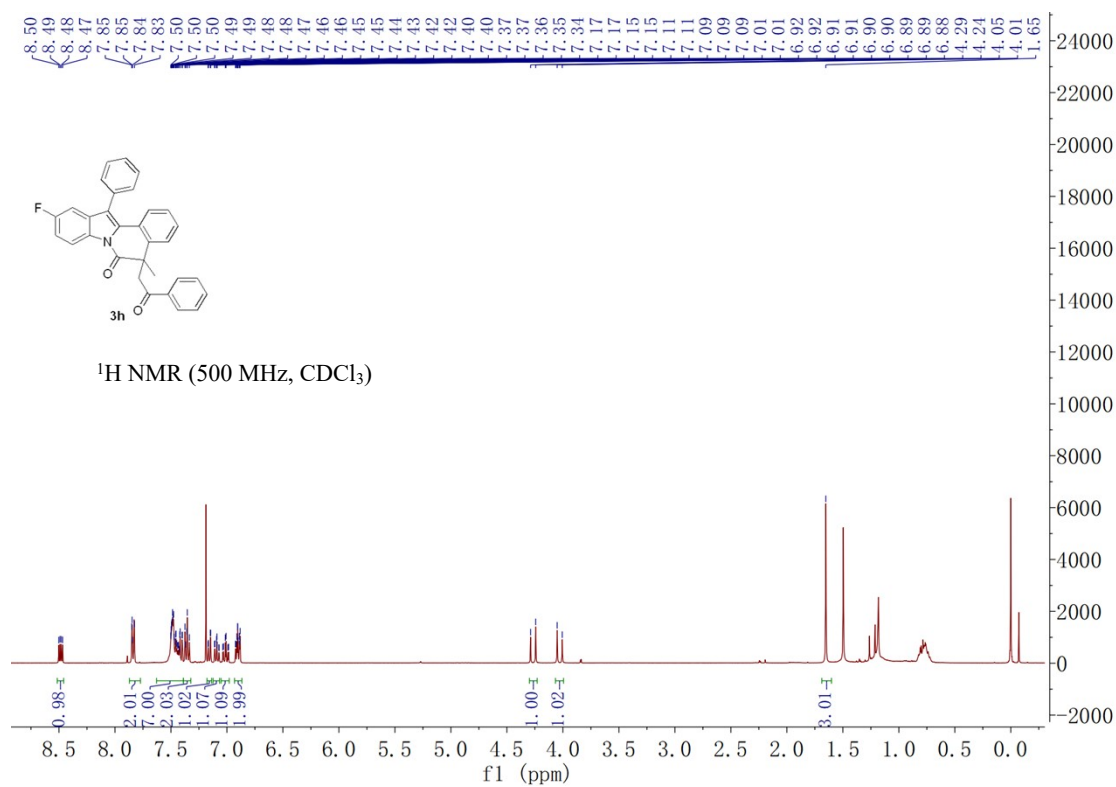
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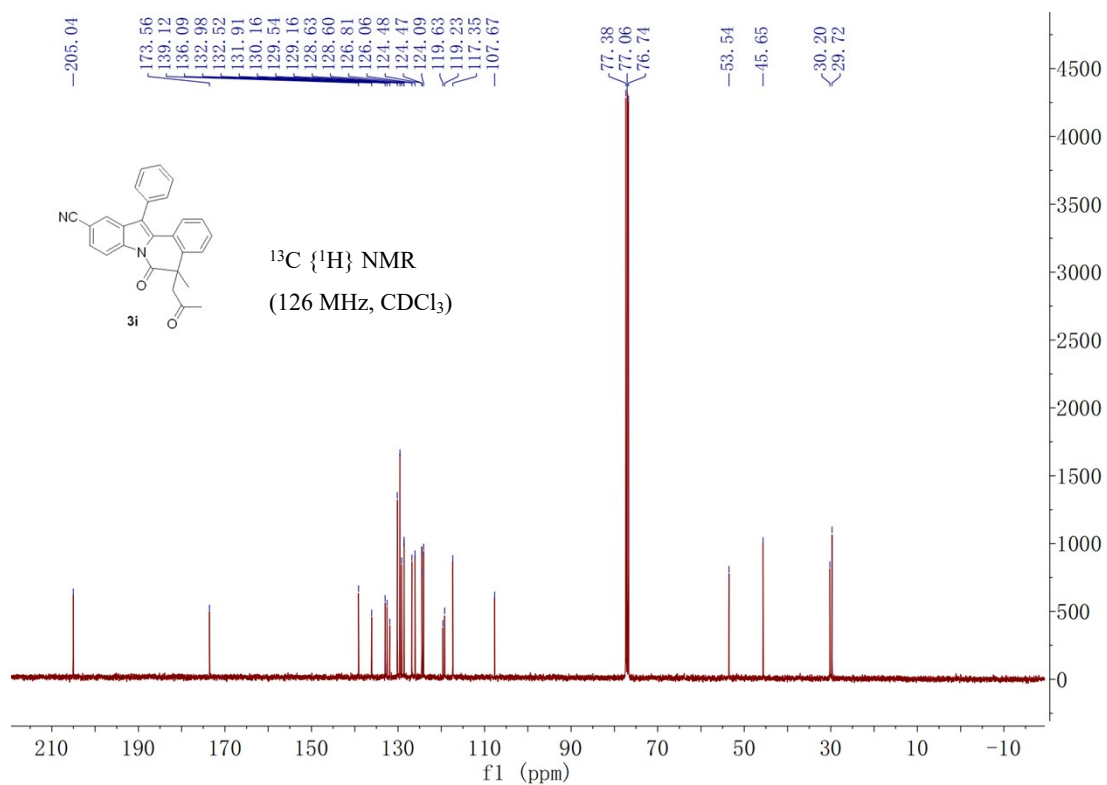
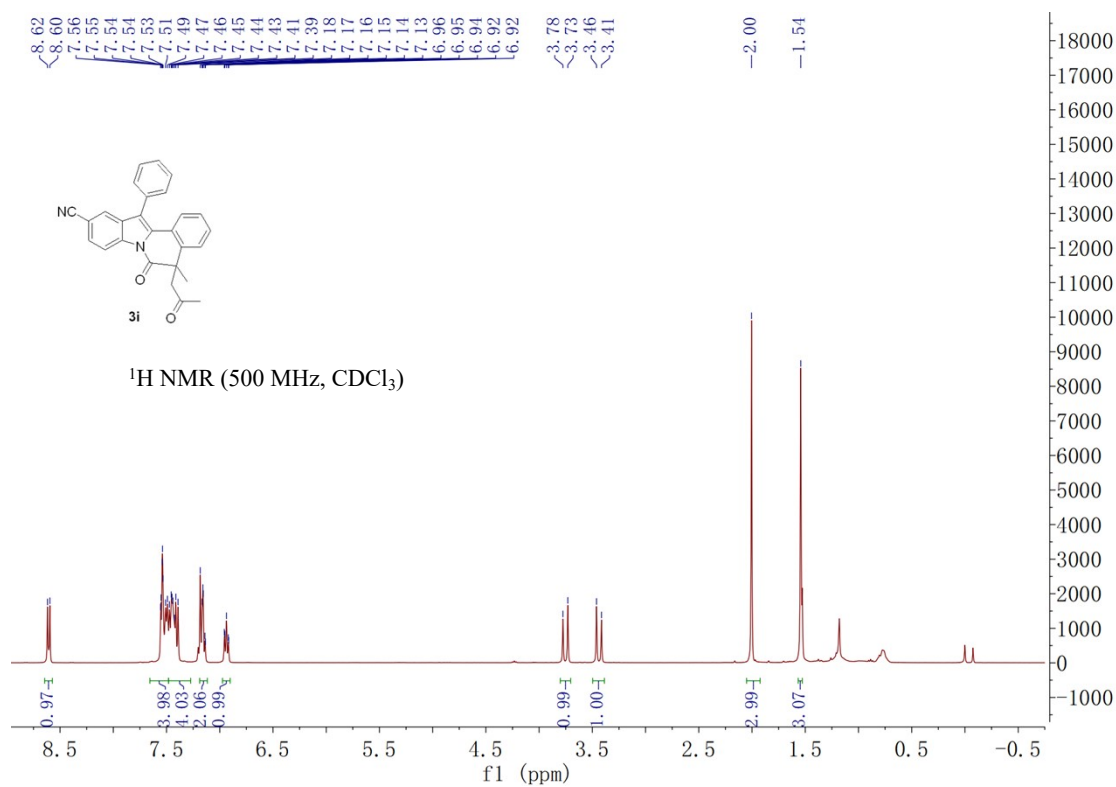
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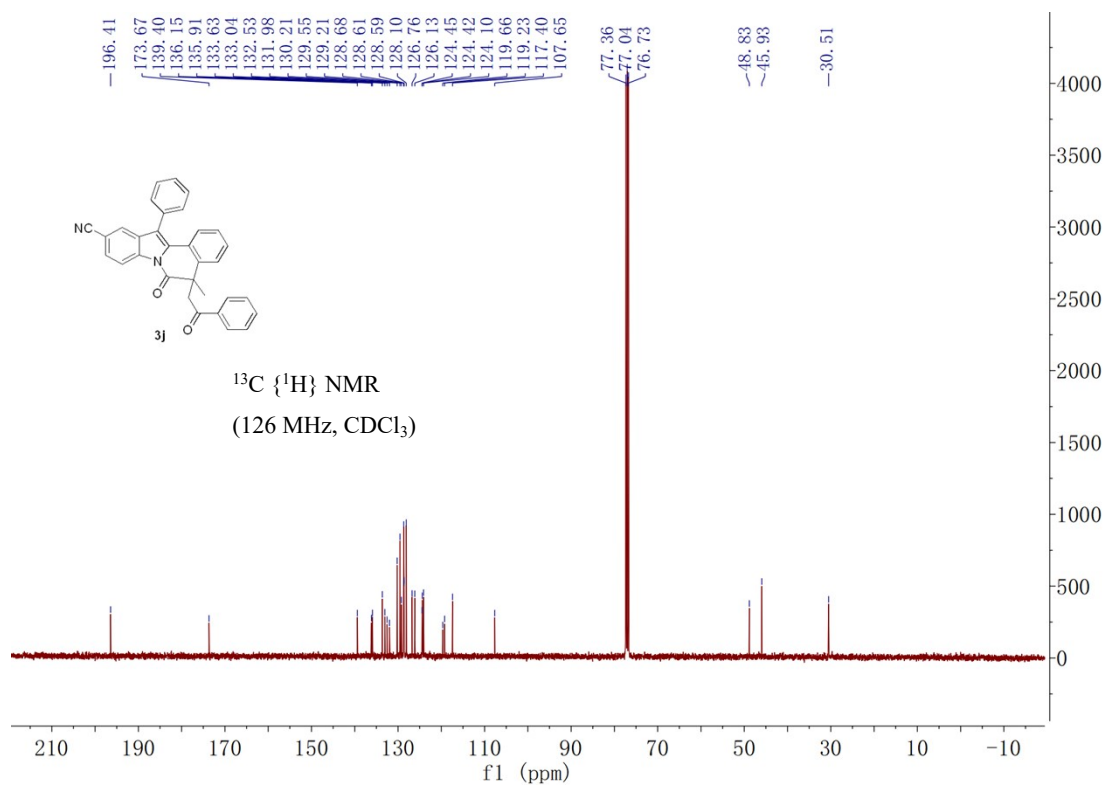
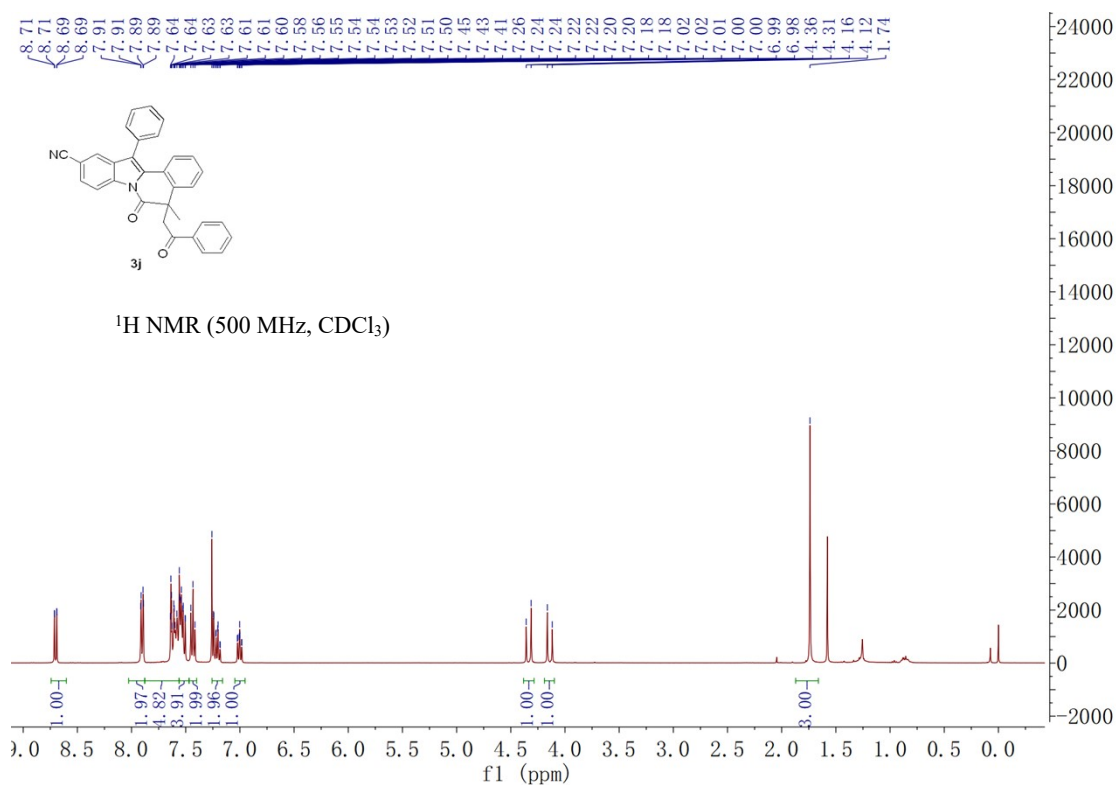
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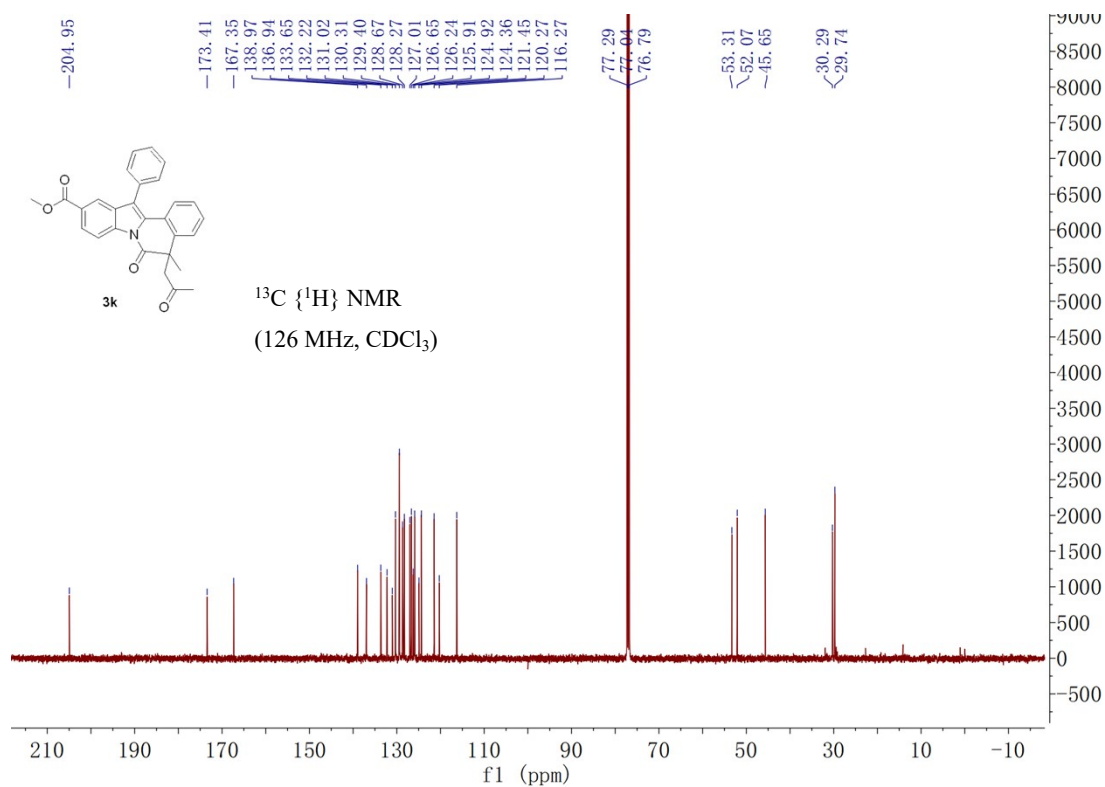
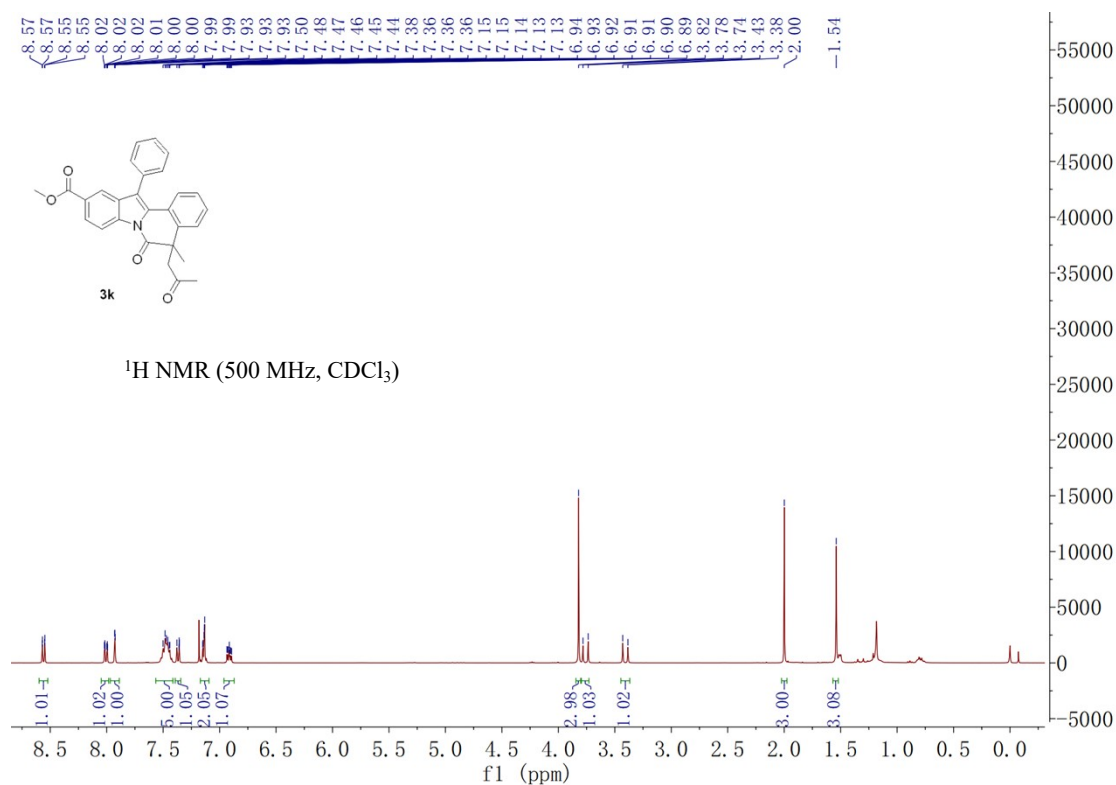
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3i



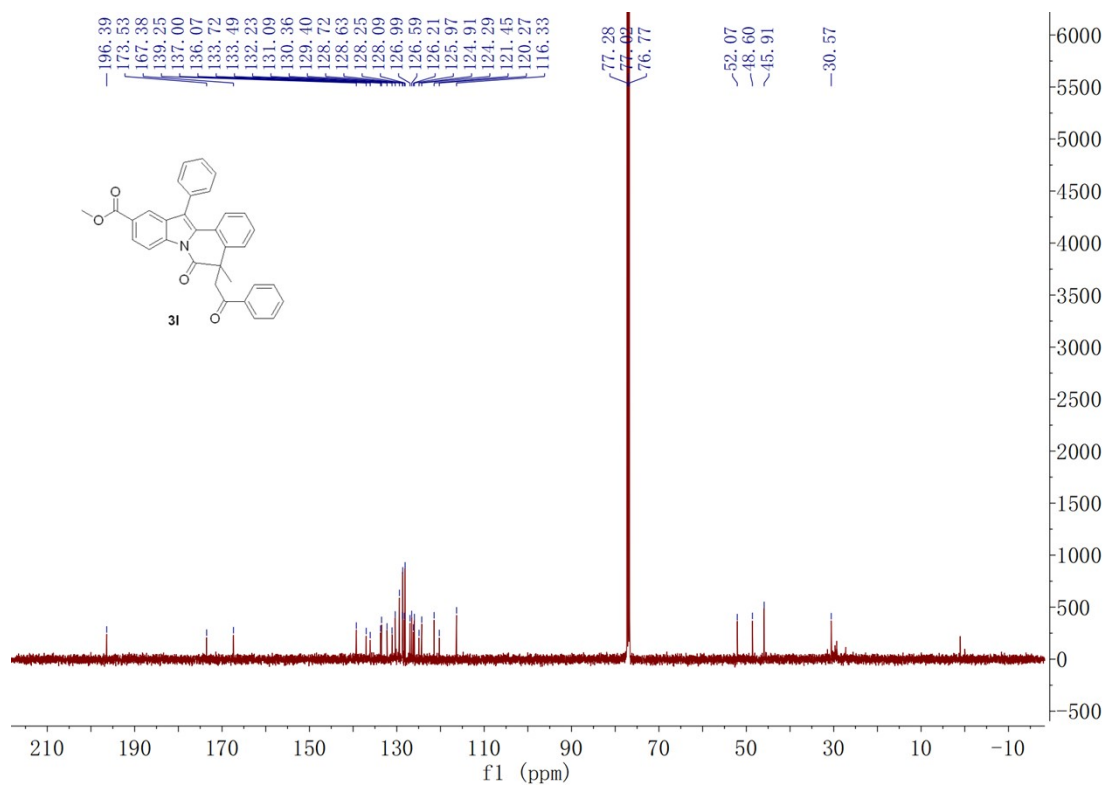
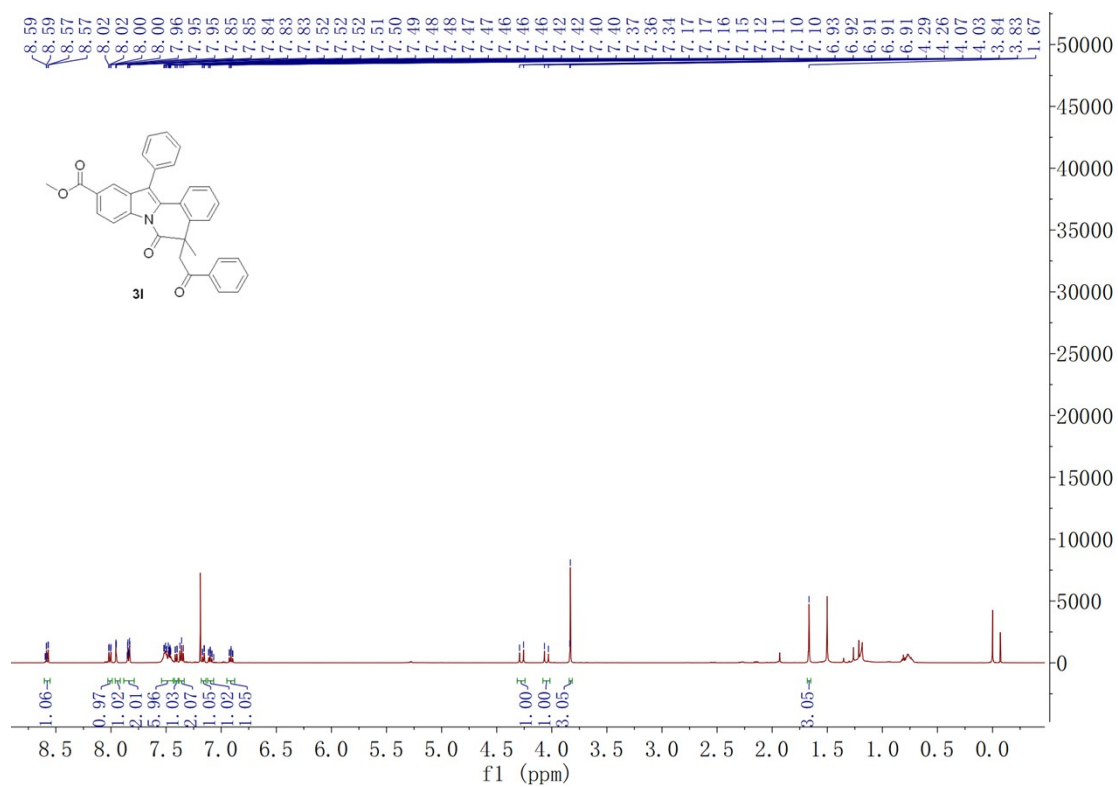
5-methyl-6-oxo-5-(2-oxo-2-phenylethyl)-12-phenyl-5,6-dihydroindolo[2,1-a]isoquinoline-10-carbonitrile **3j**

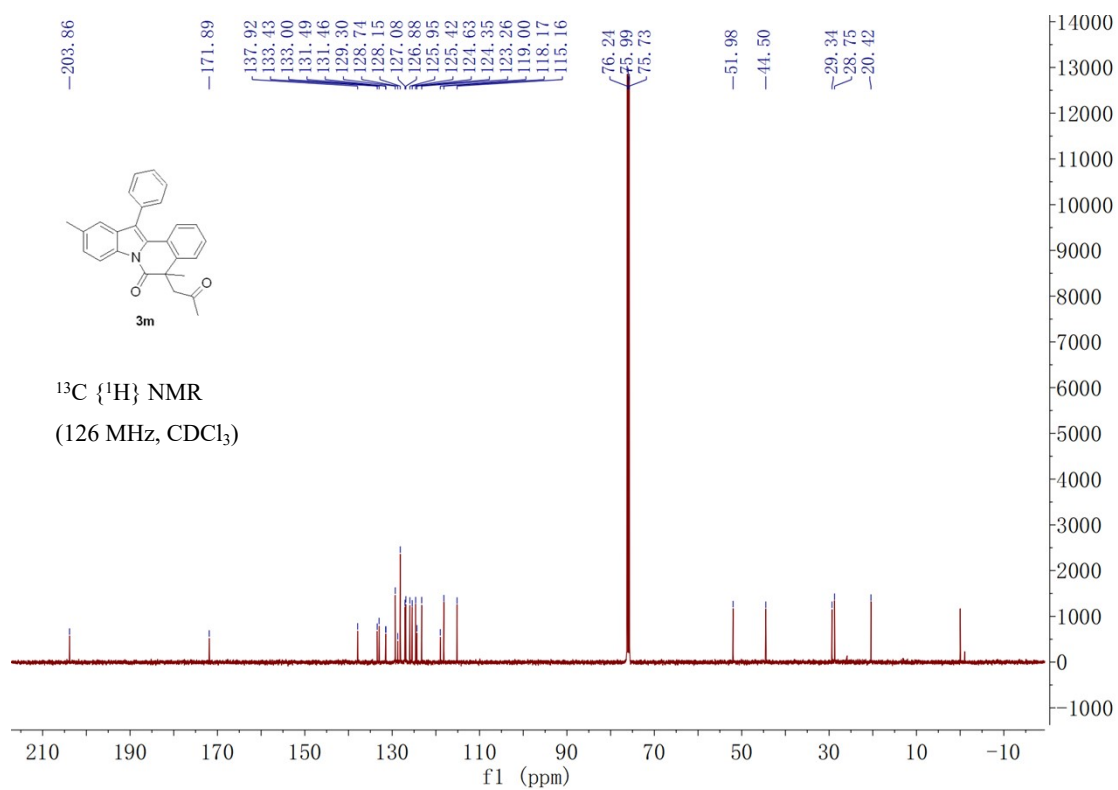
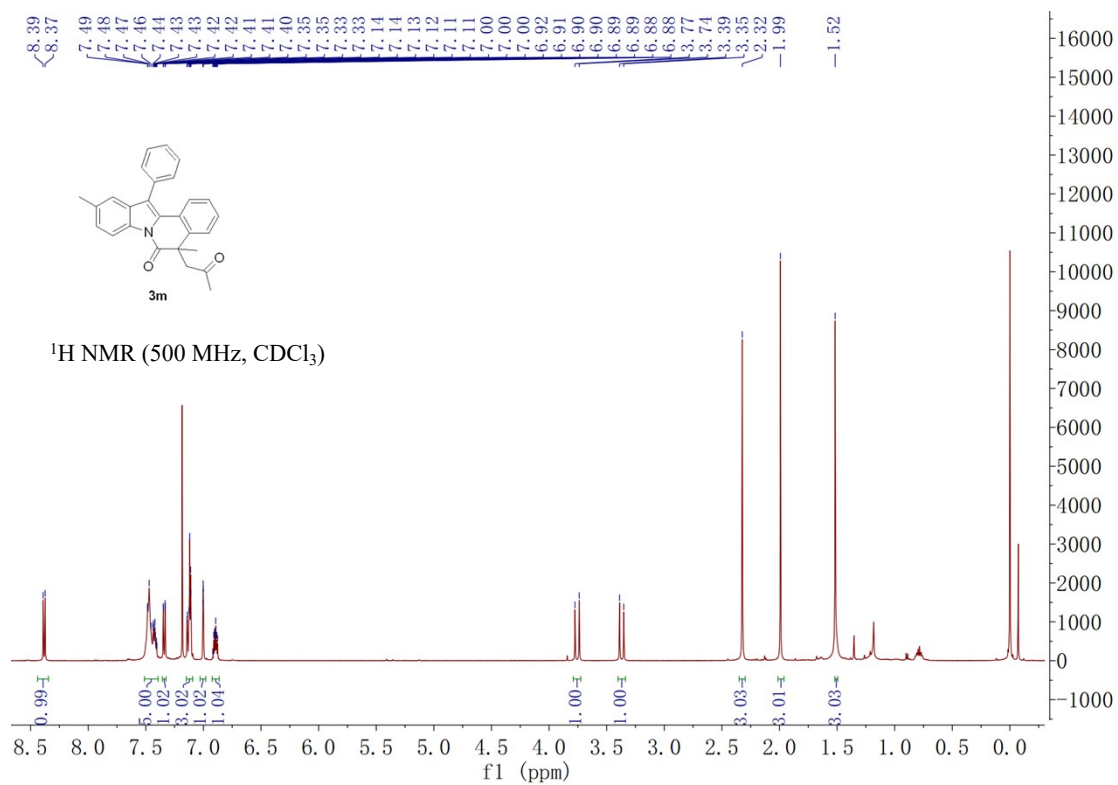


methyl 5-methyl-6-oxo-5-(2-oxopropyl)-12-phenyl-5,6-dihydroindolo[2,1-a]isoquinoline-10-carboxylate **3k**

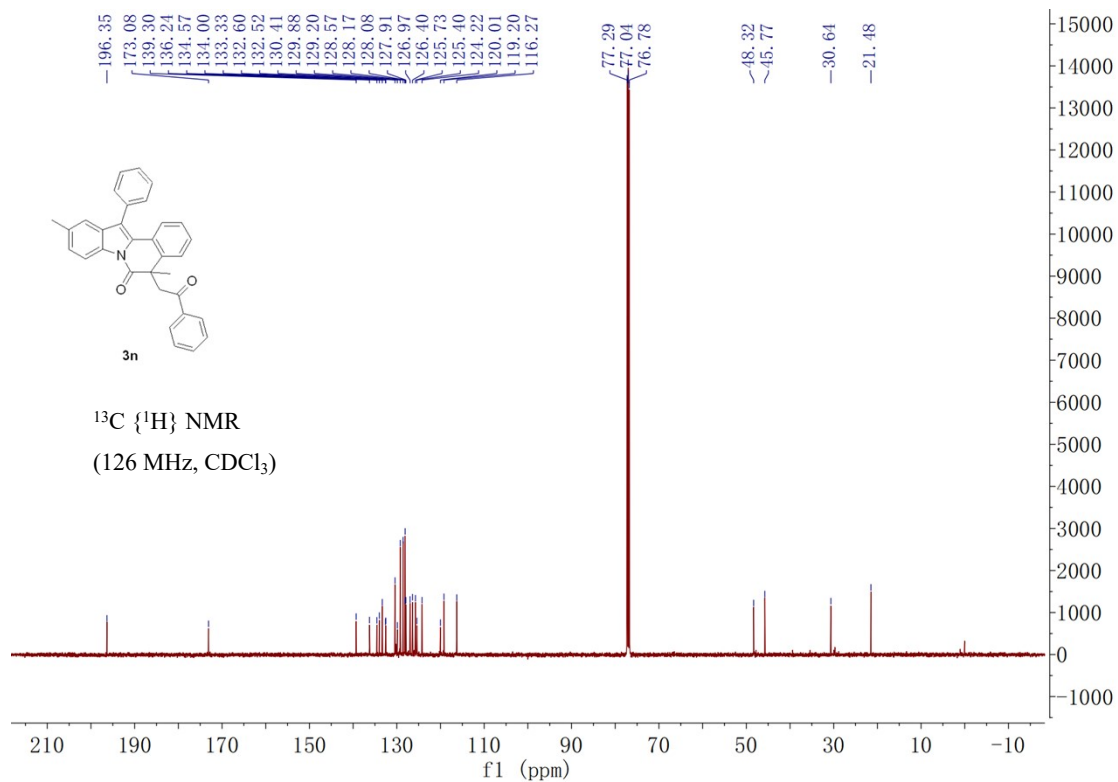
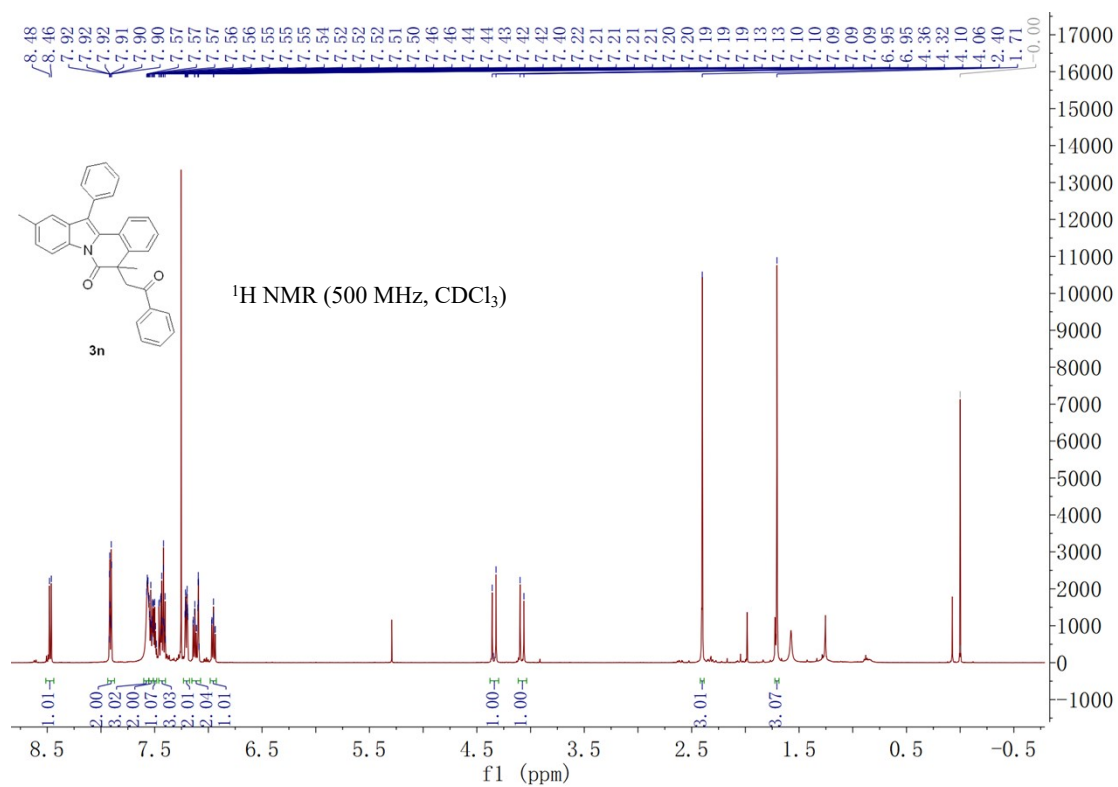


methyl 5-methyl-6-oxo-5-(2-oxo-2-phenylethyl)-12-phenyl-5,6-dihydroindolo[2,1-a]isoquinoline-10-carboxylate **3k**

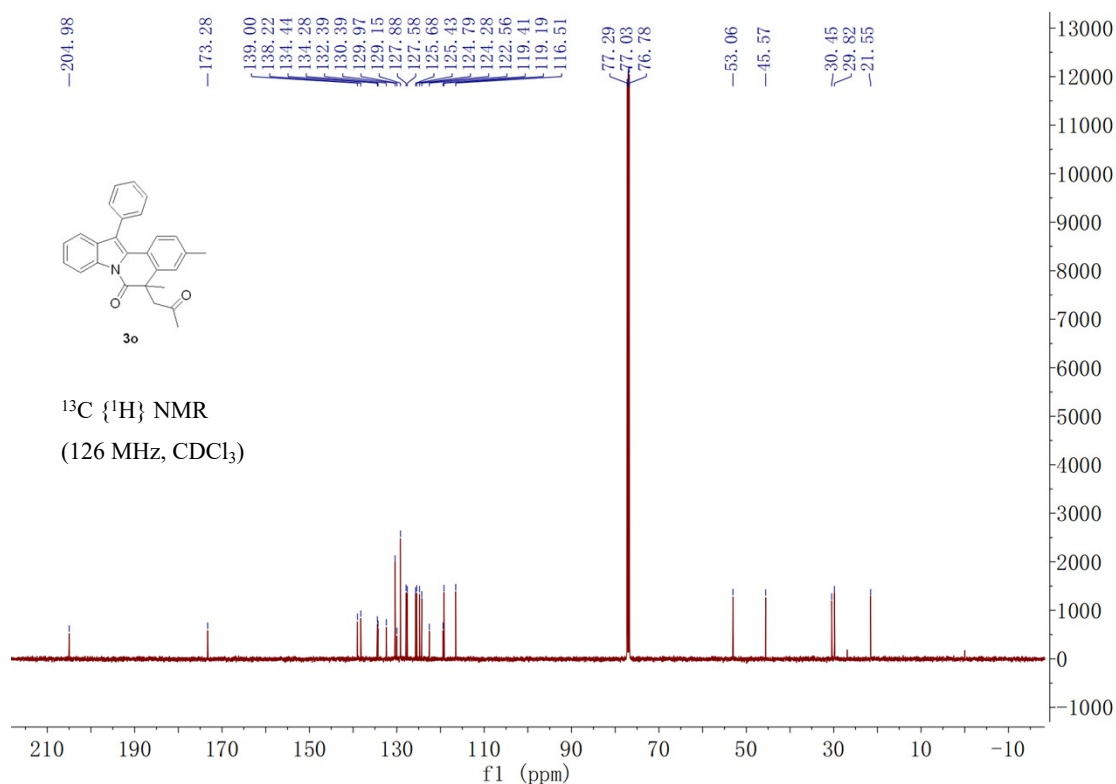
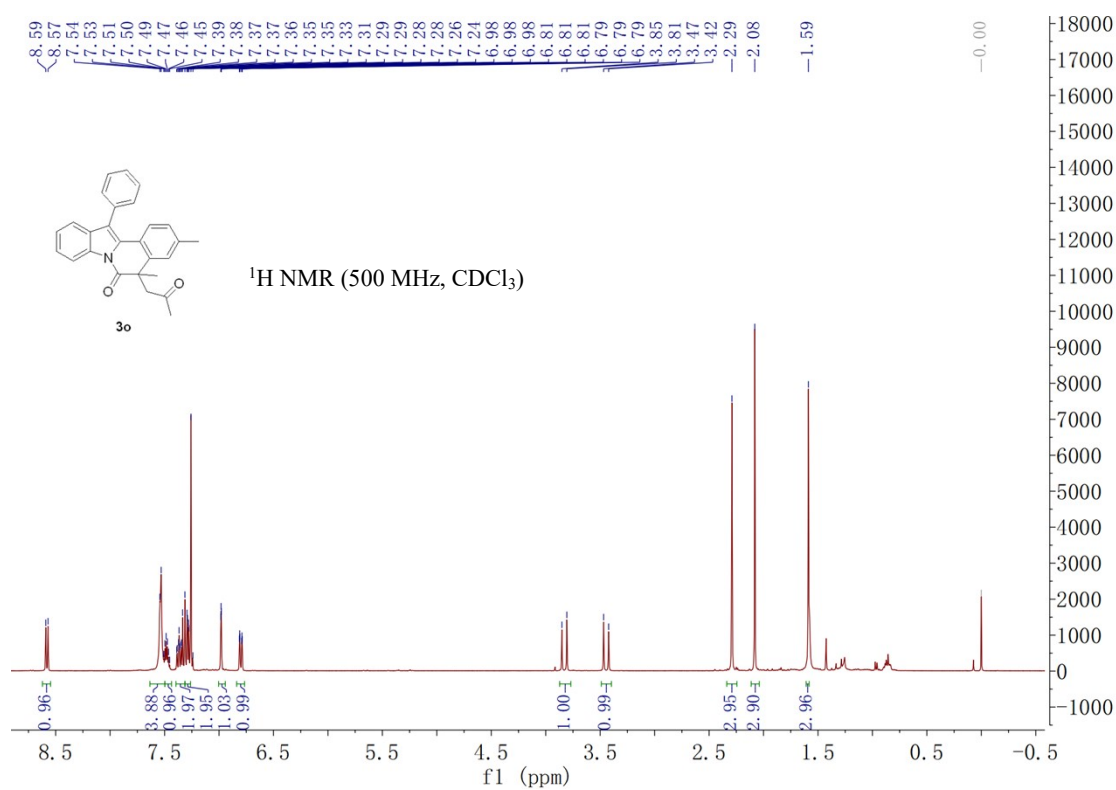
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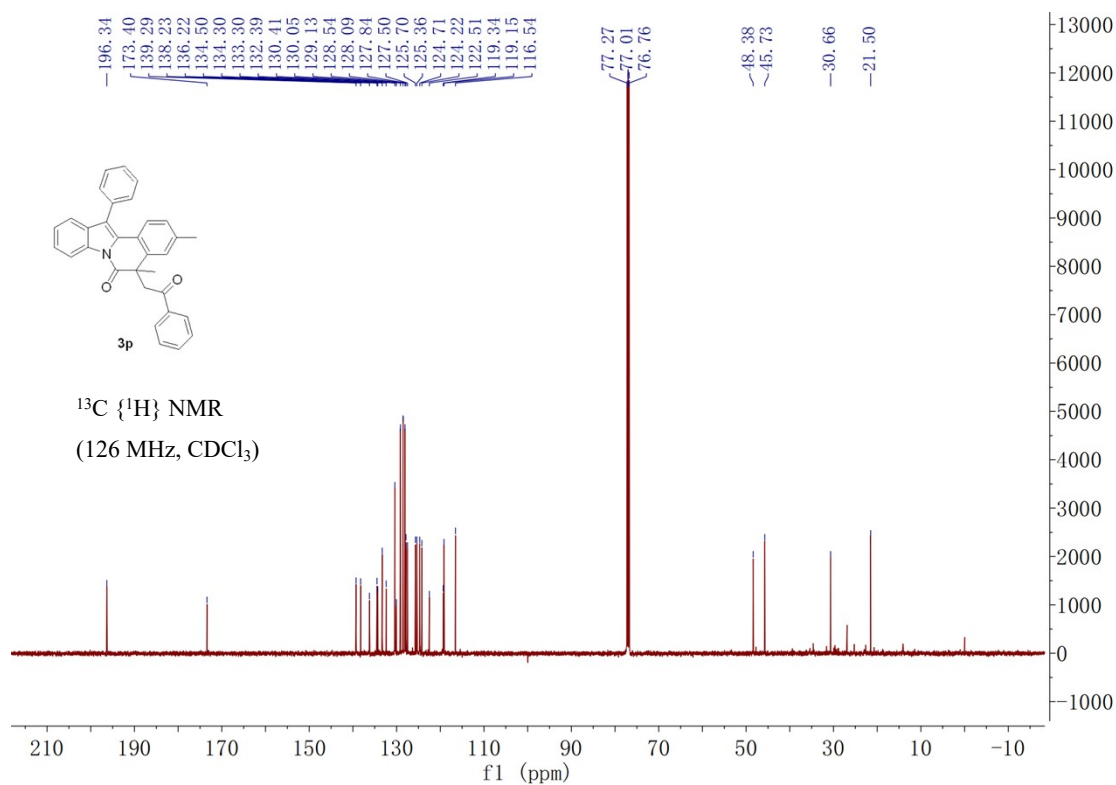
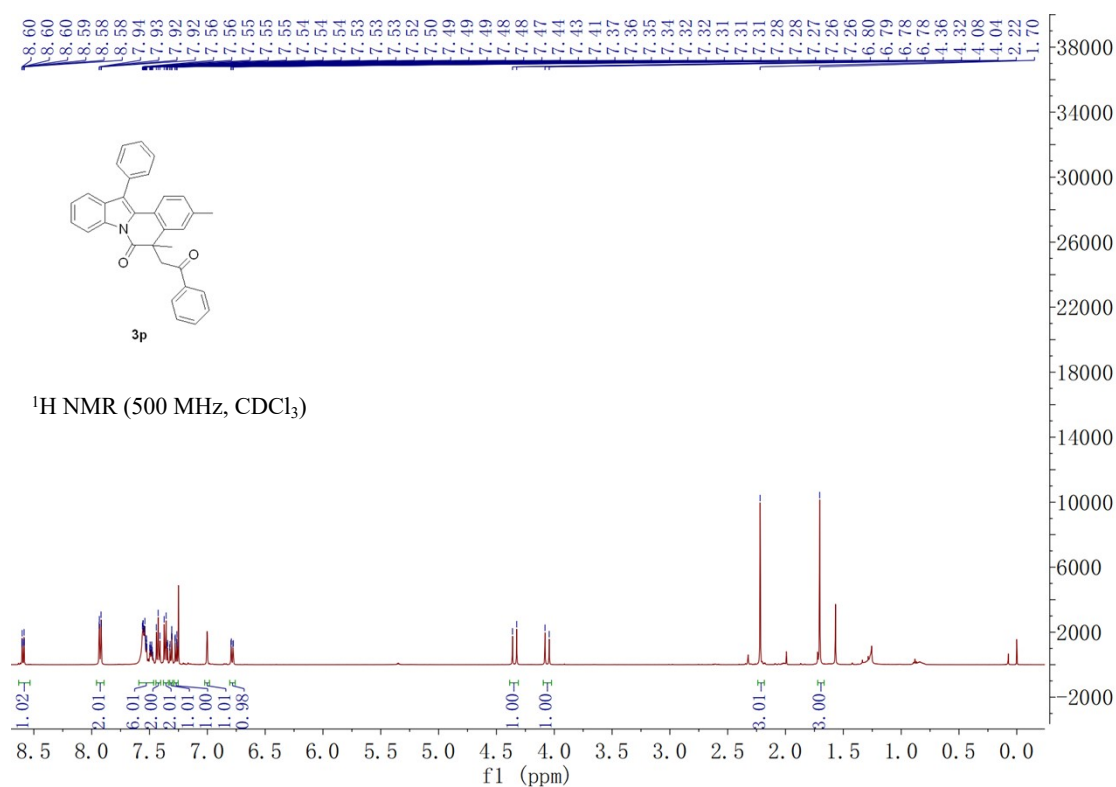
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3n



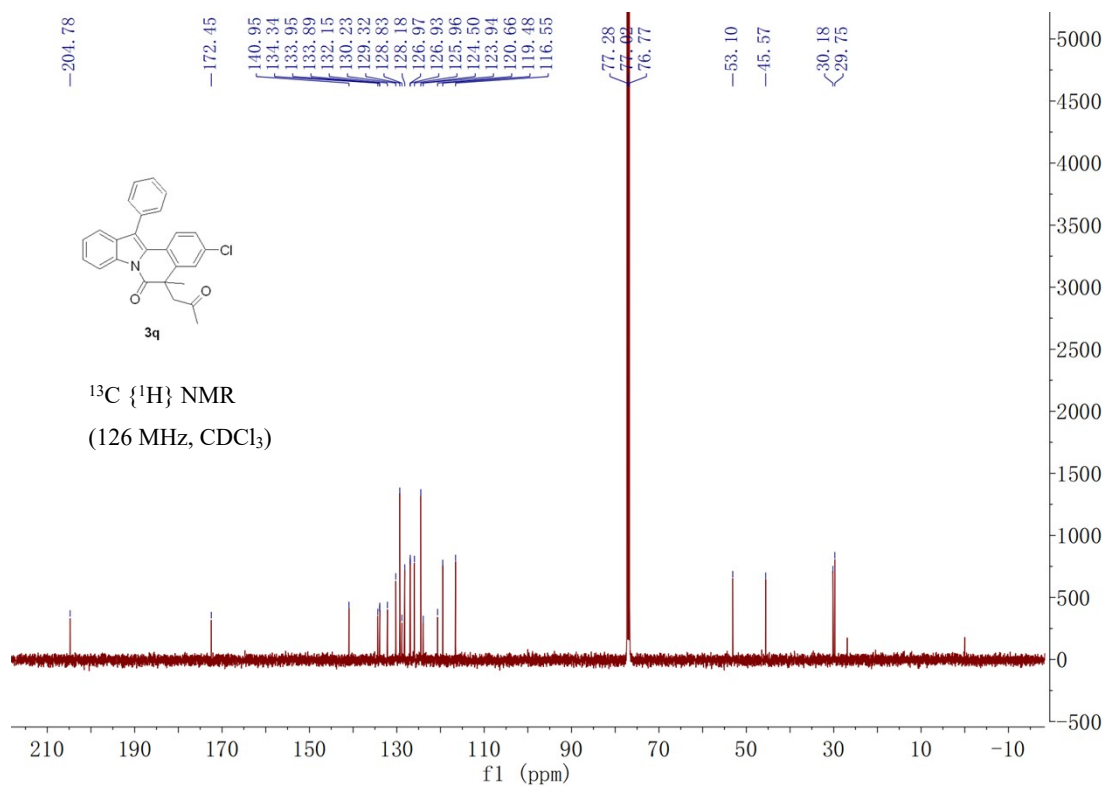
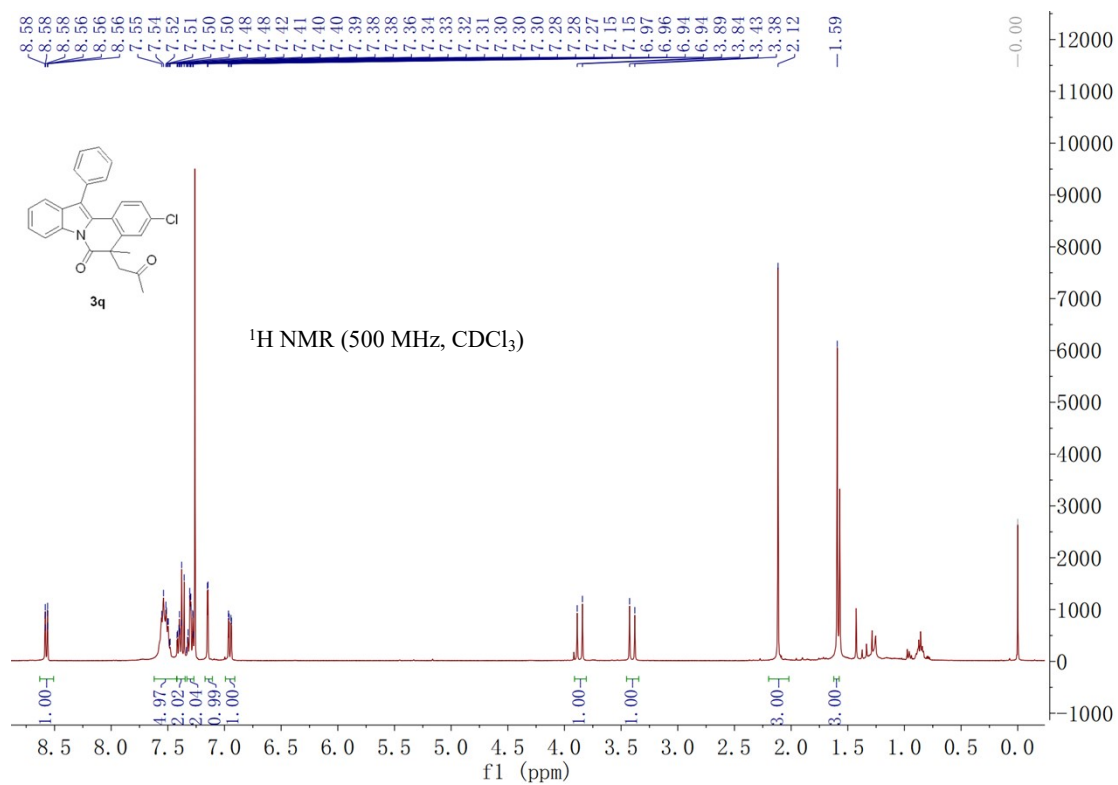
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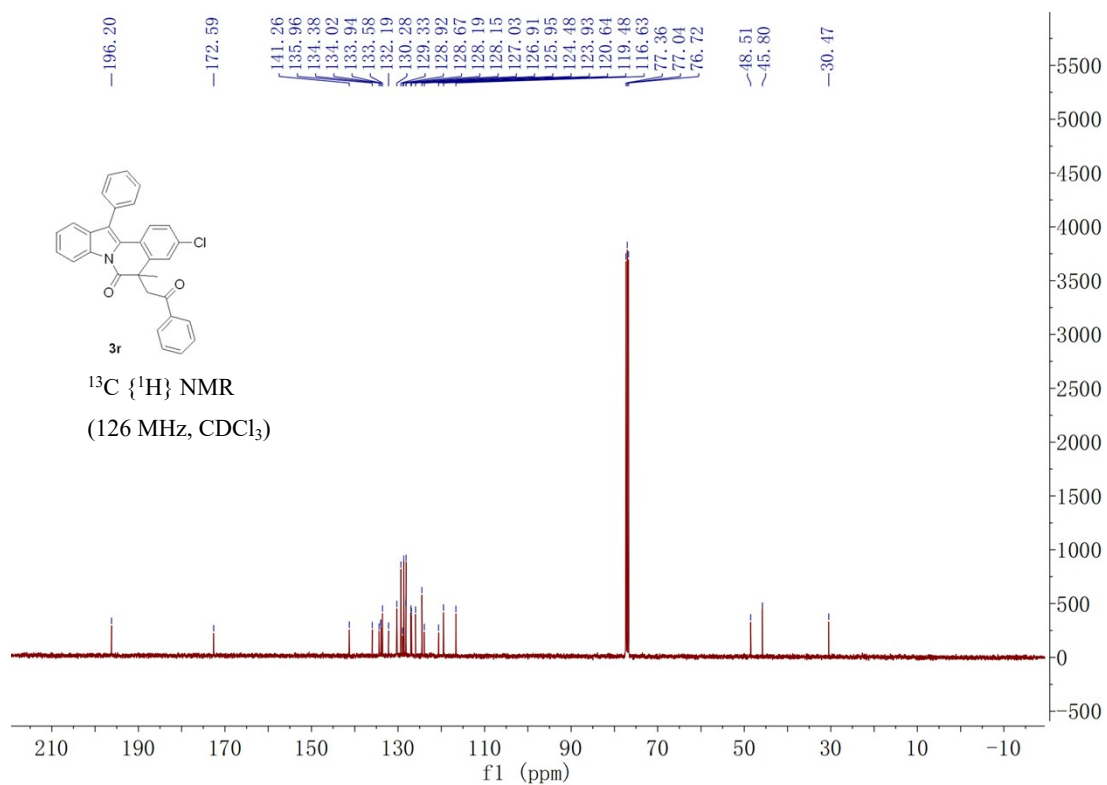
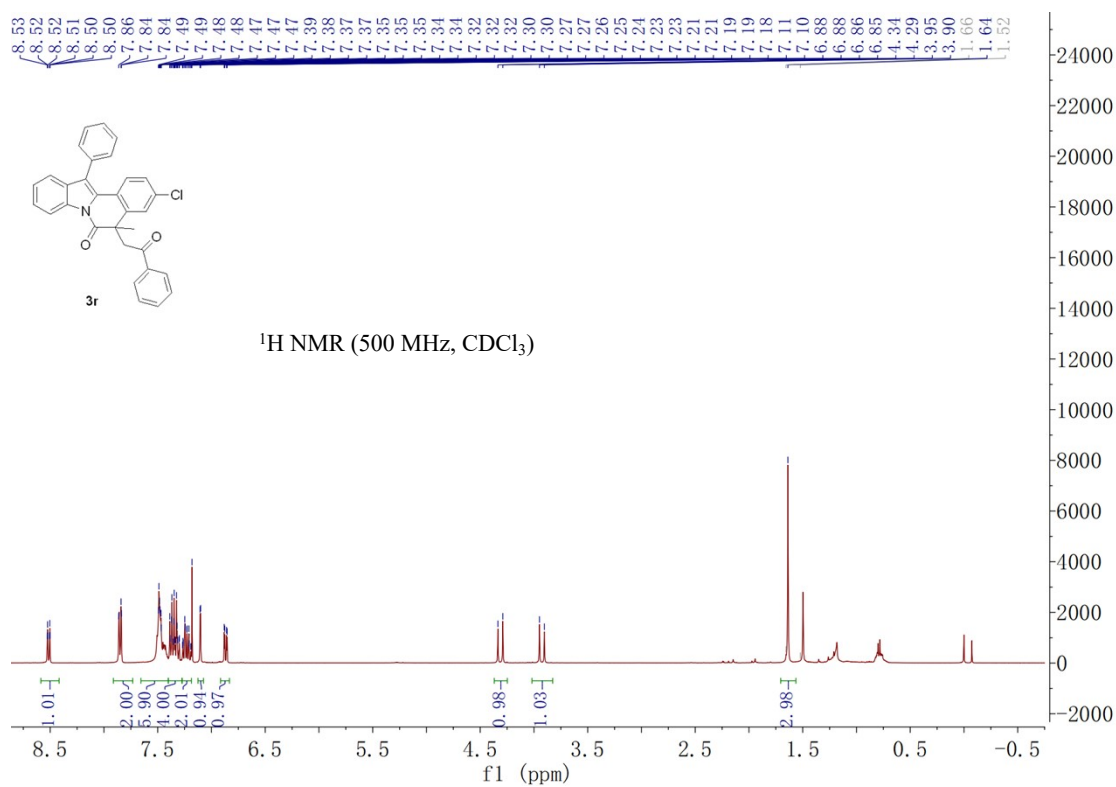
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3p



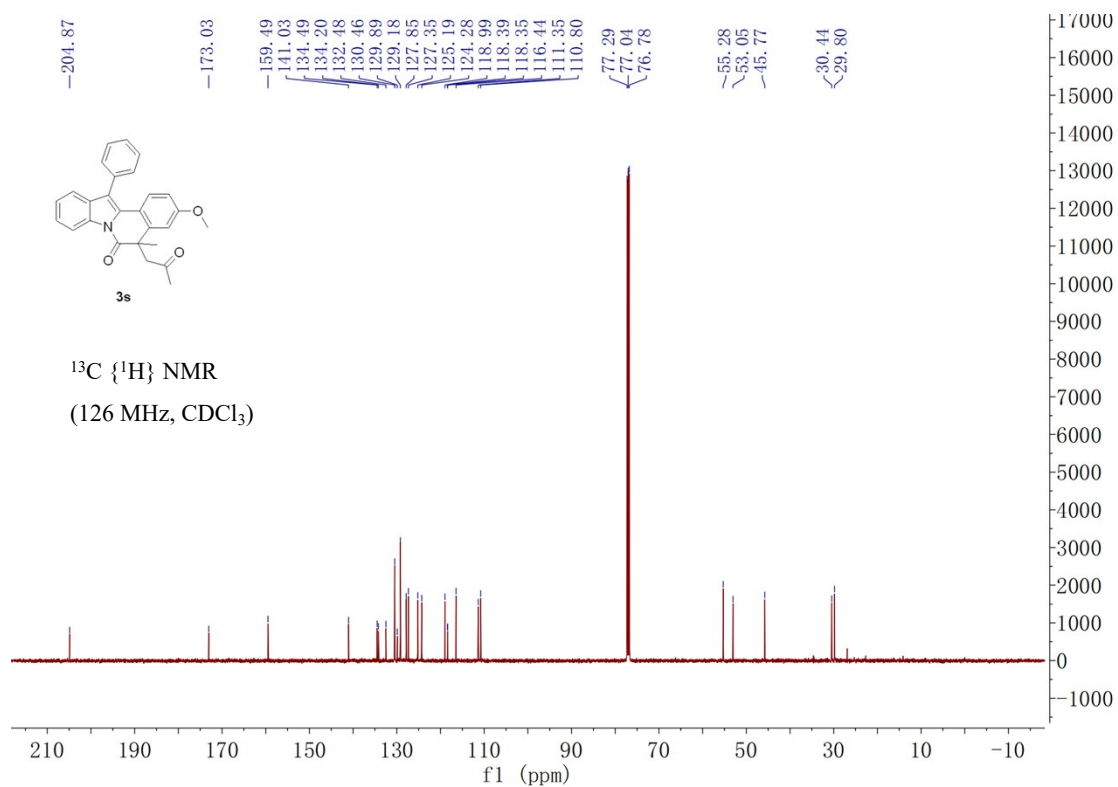
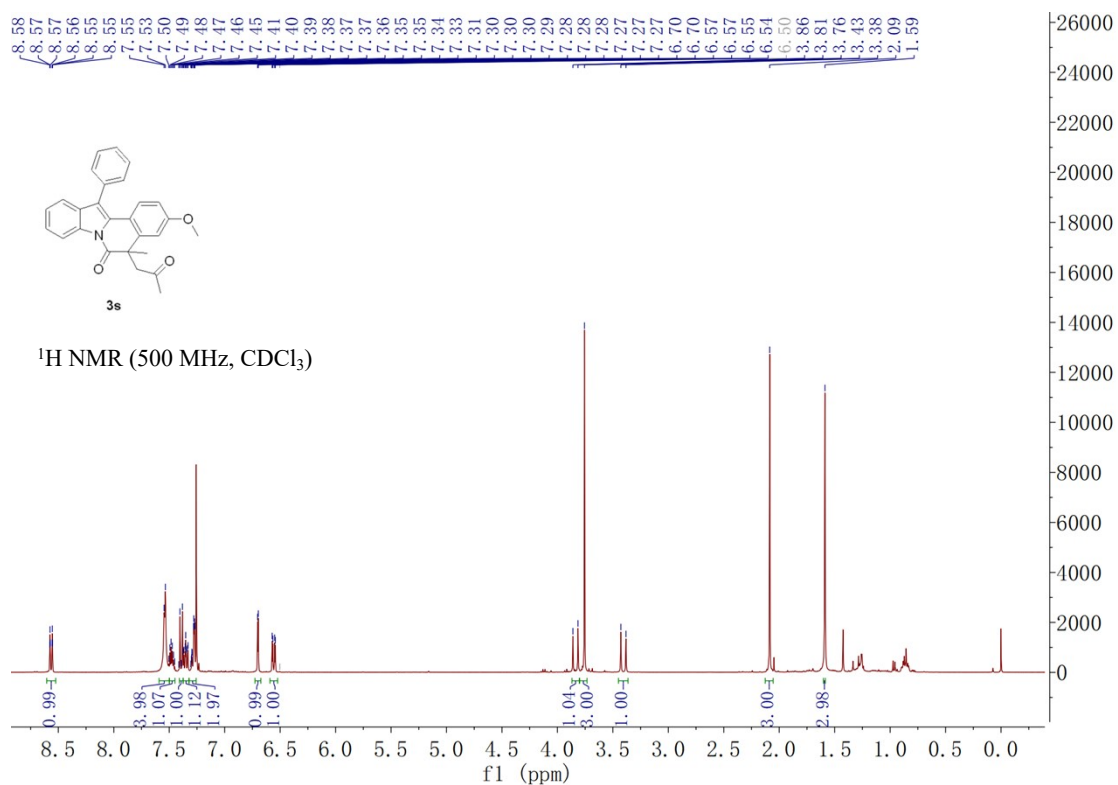
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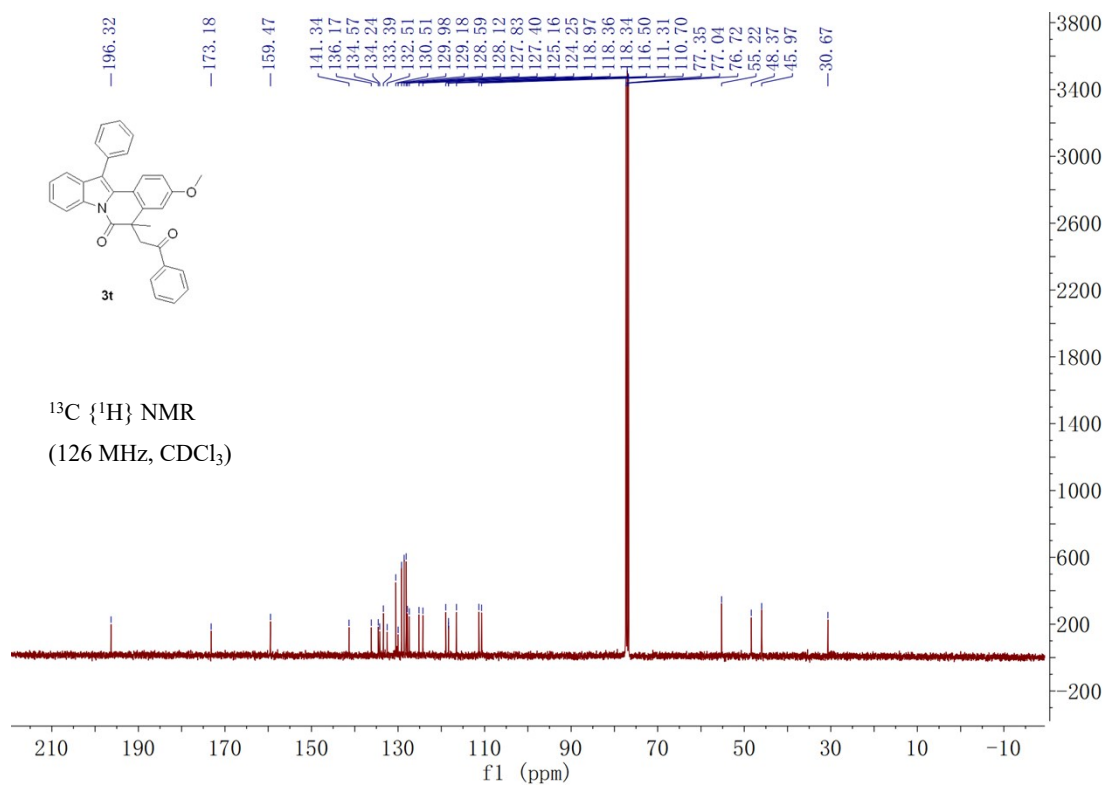
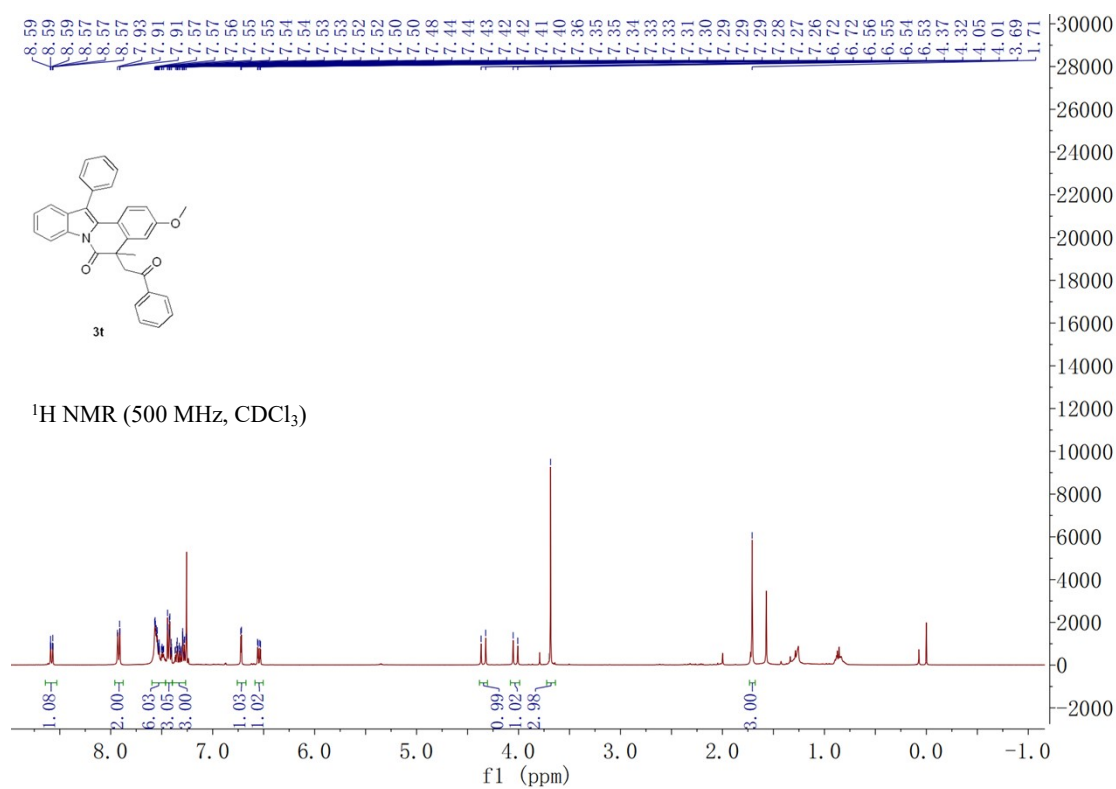
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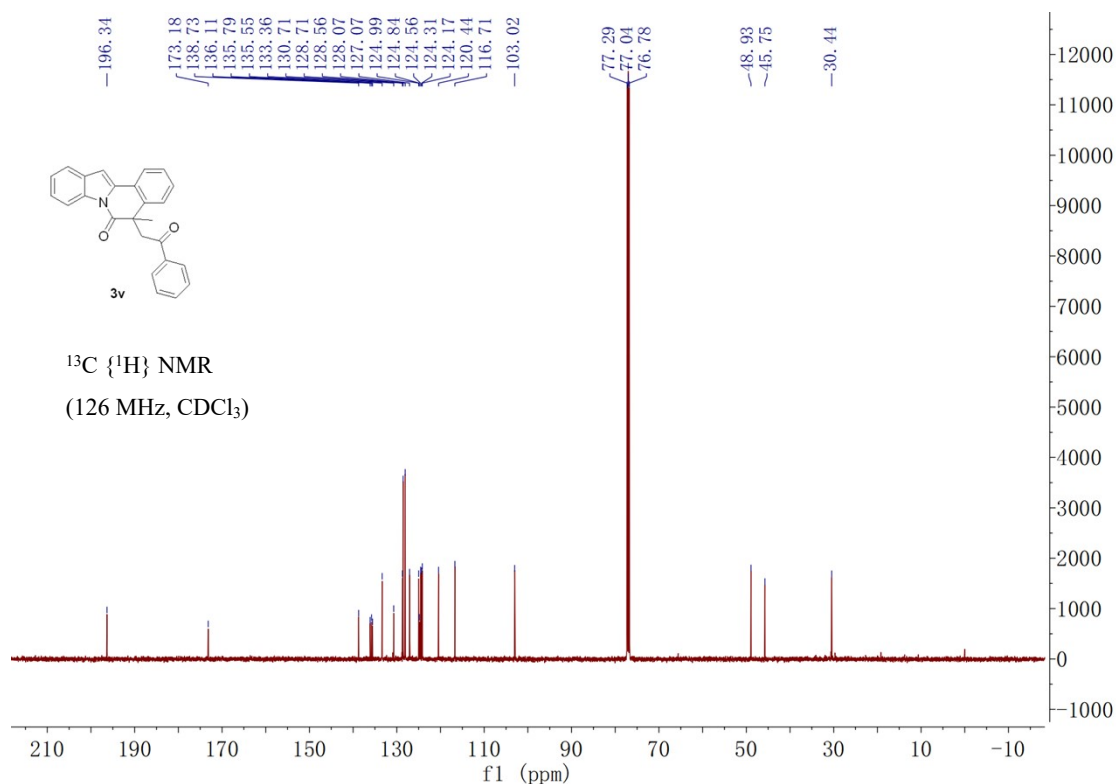
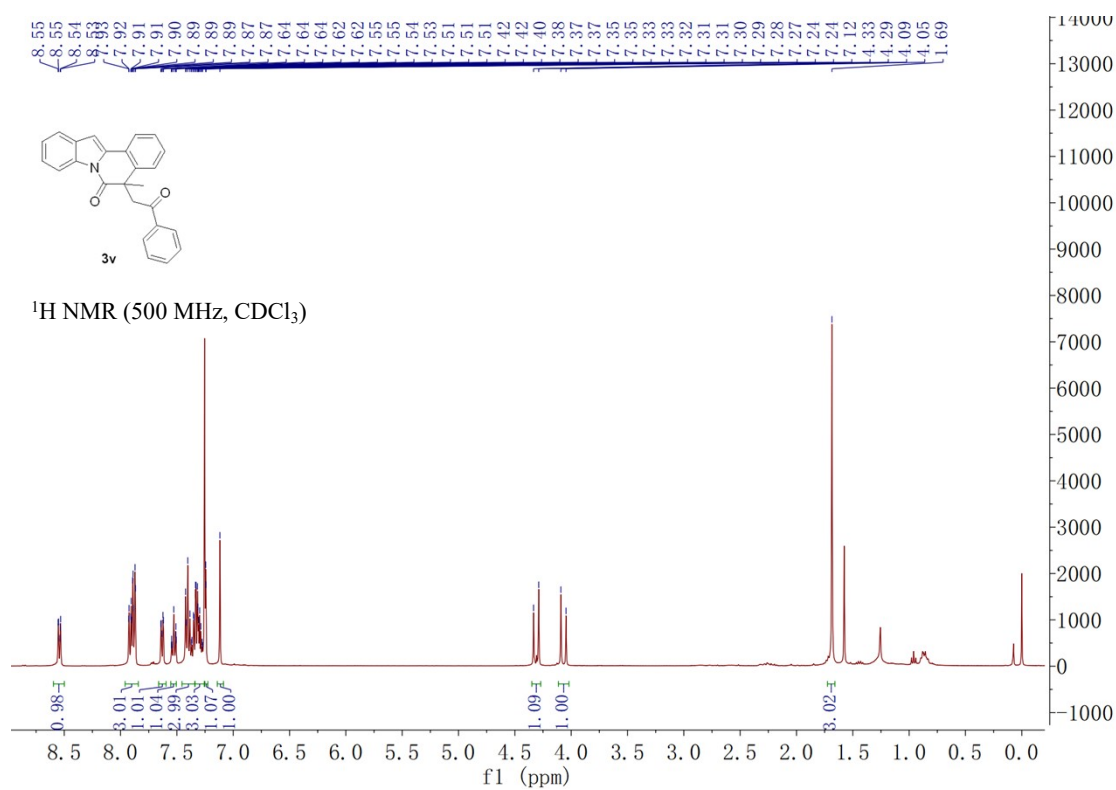
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3s



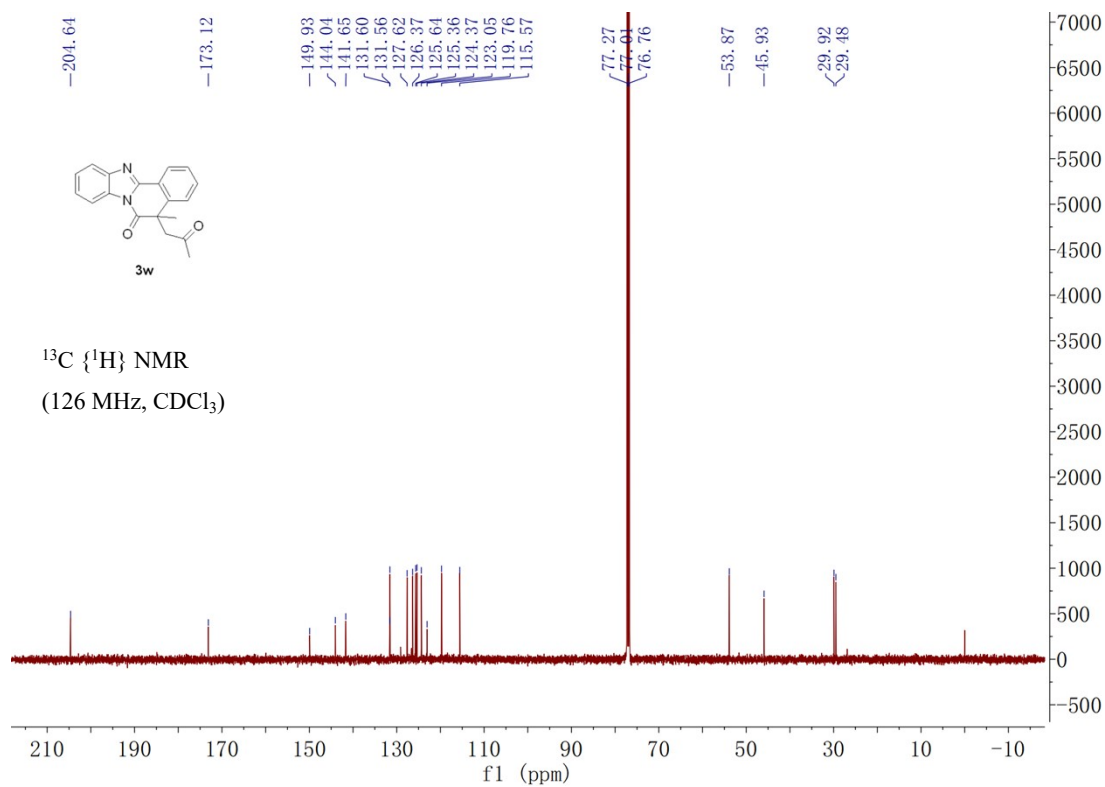
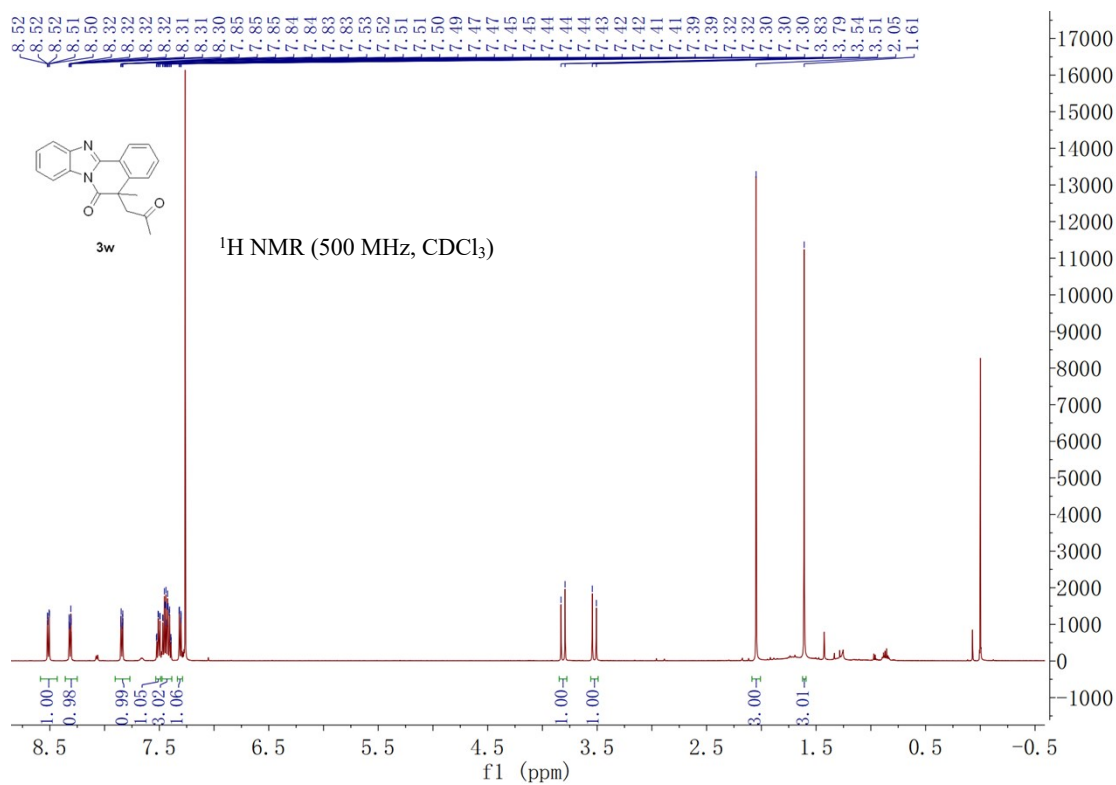
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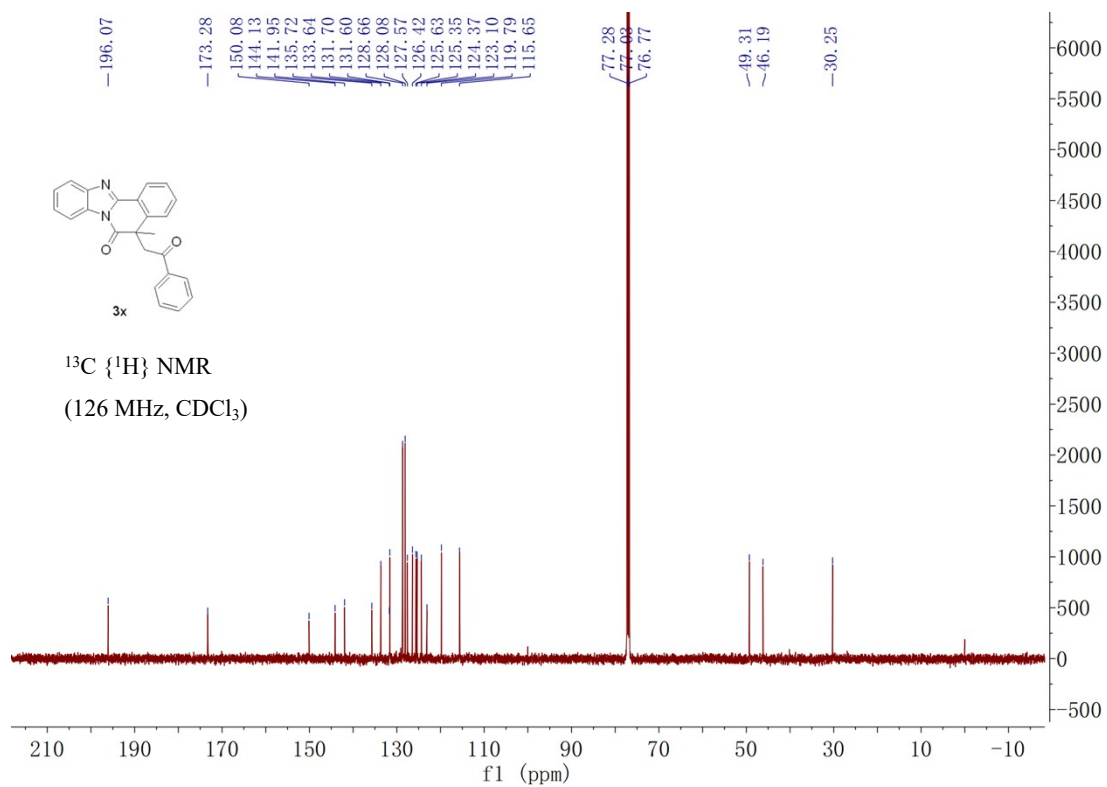
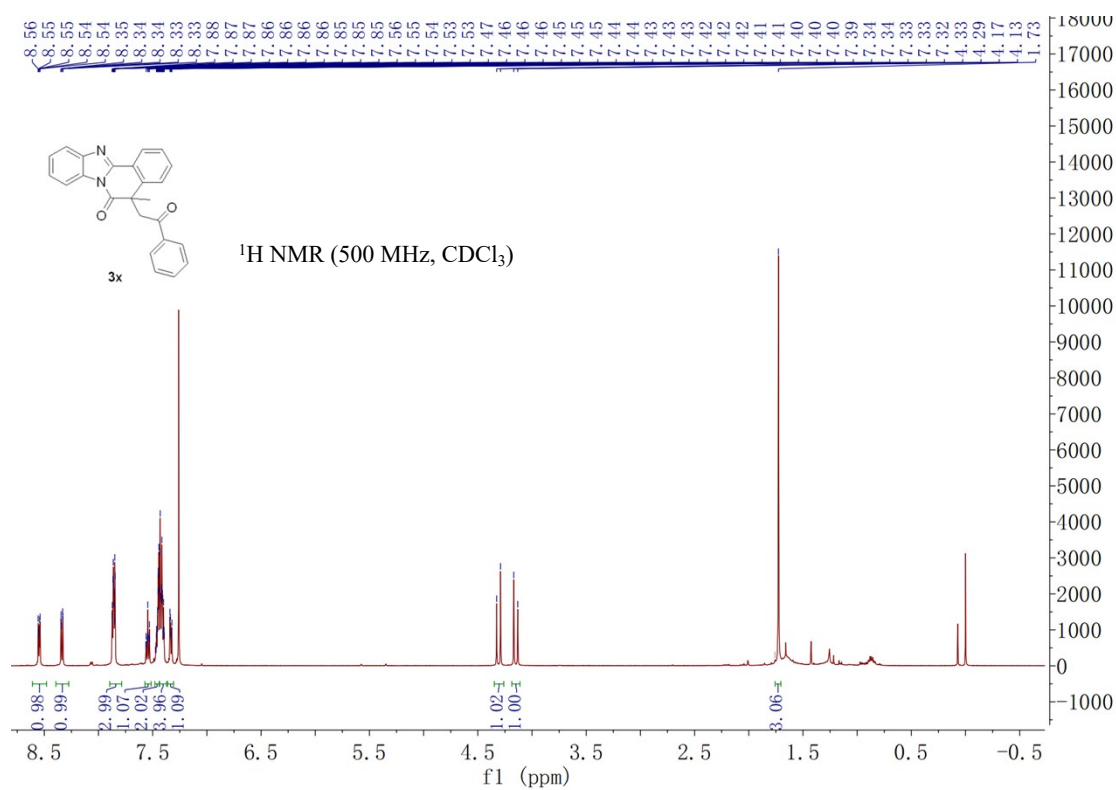


5-methyl-5-(2-oxopropyl)indolo[2,1-a]isoquinolin-6(5H)-one **3u**

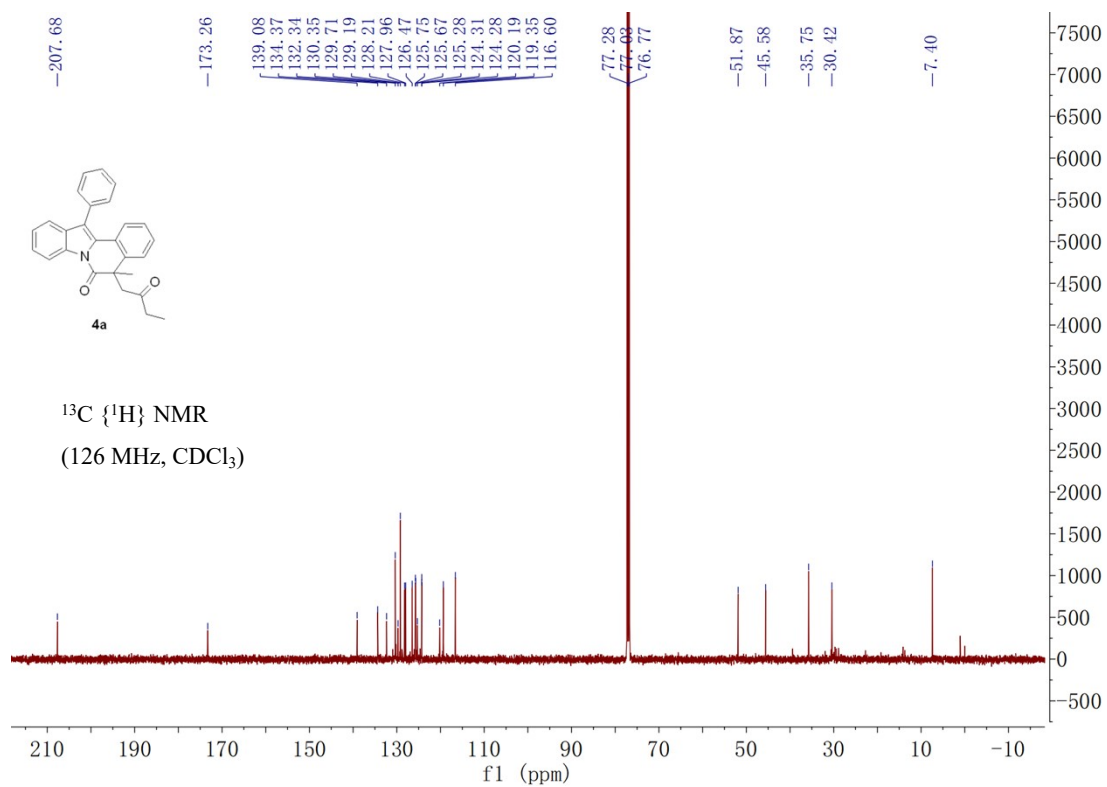
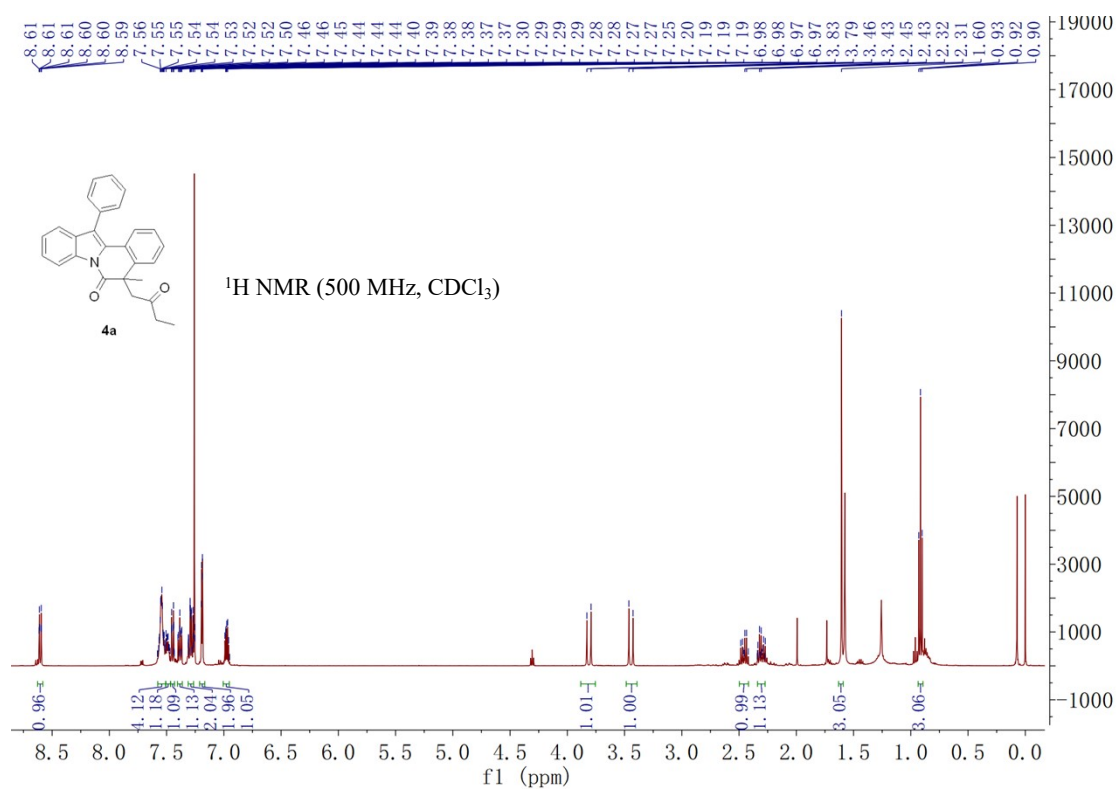


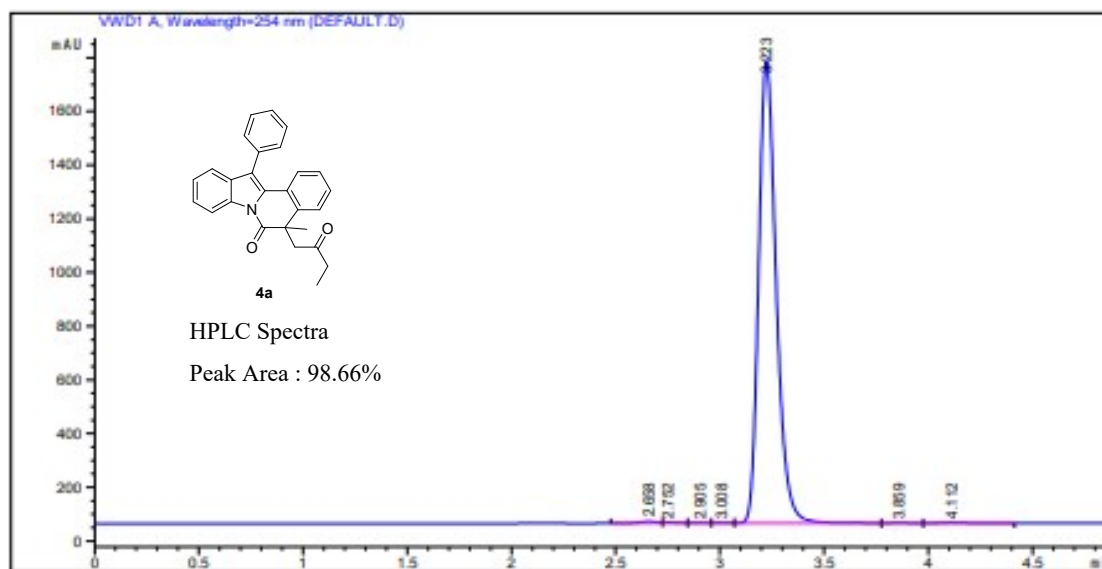
5-methyl-5-(2-oxopropyl)benzo[4,5]imidazo[2,1-a]isoquinolin-6(5H)-one **3w**

5-methyl-5-(2-oxo-2-phenylethyl)benzo[4,5]imidazo[2,1-a]isoquinolin-6(5H)-one **3x**

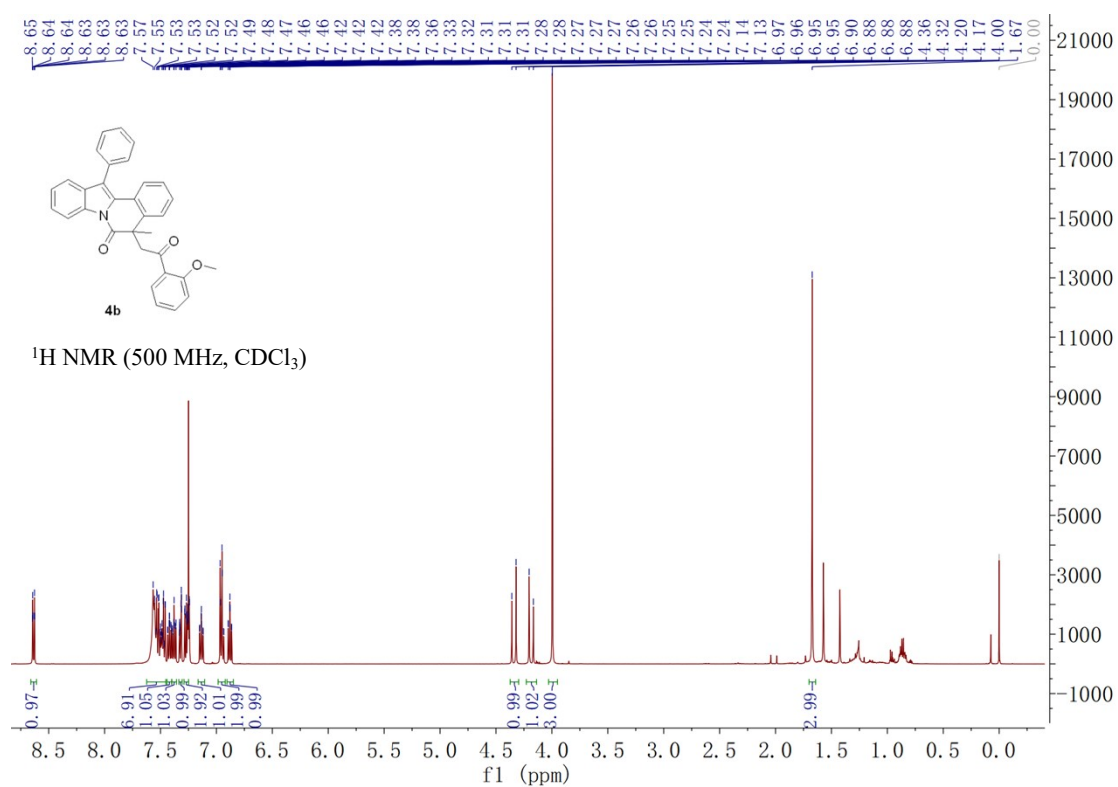


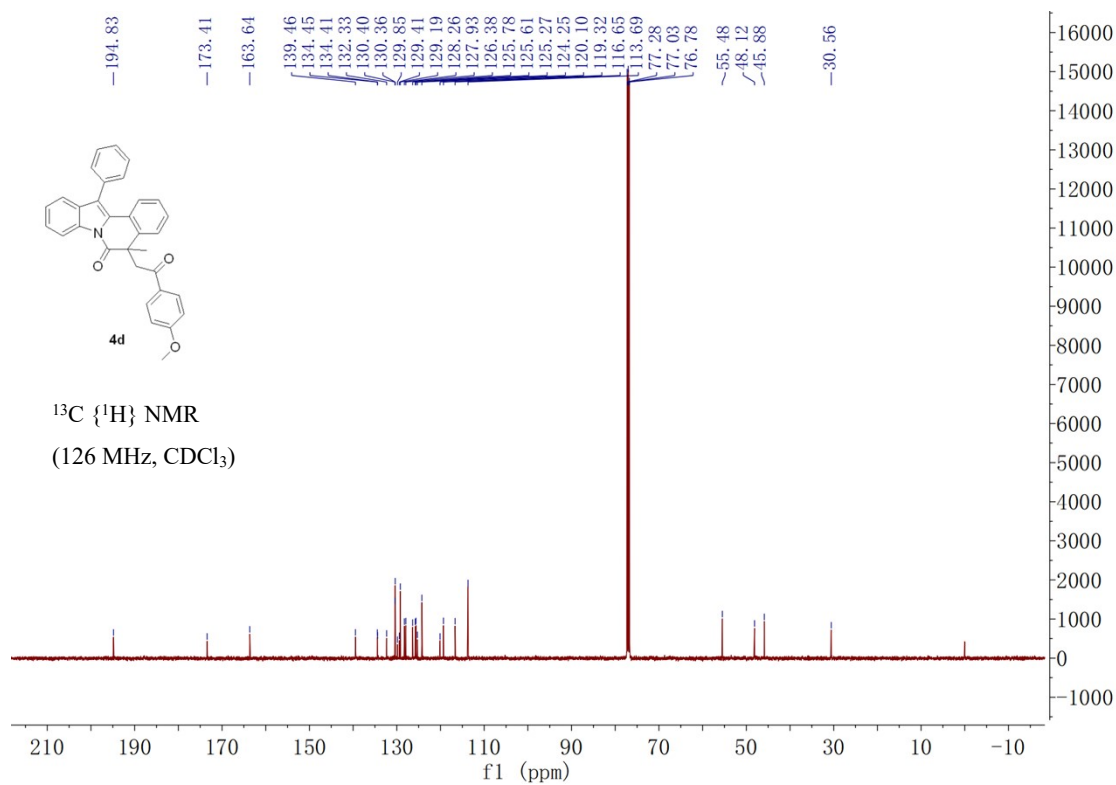
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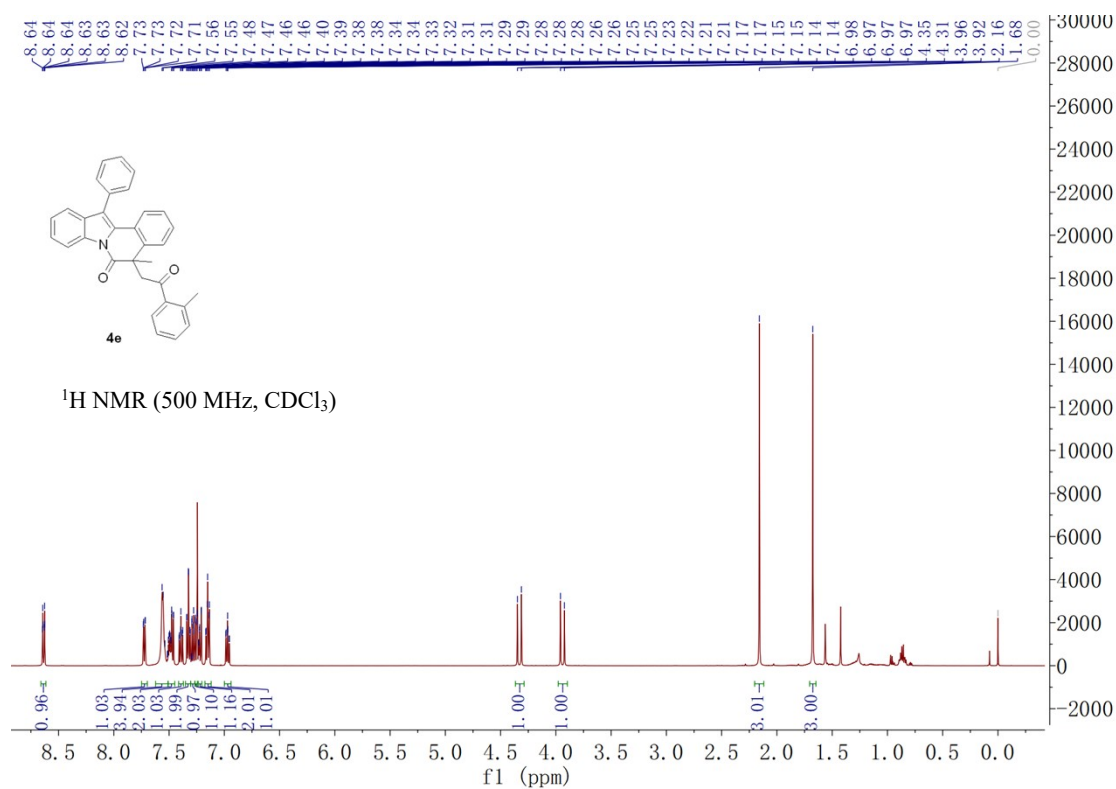


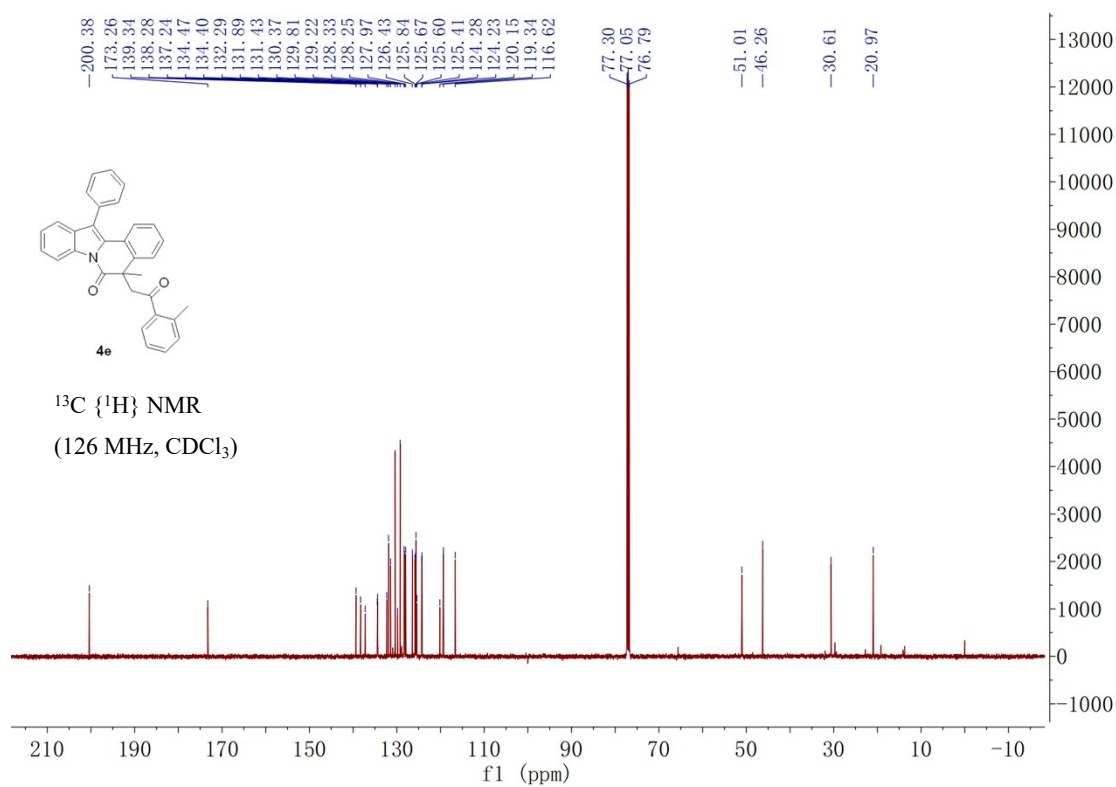
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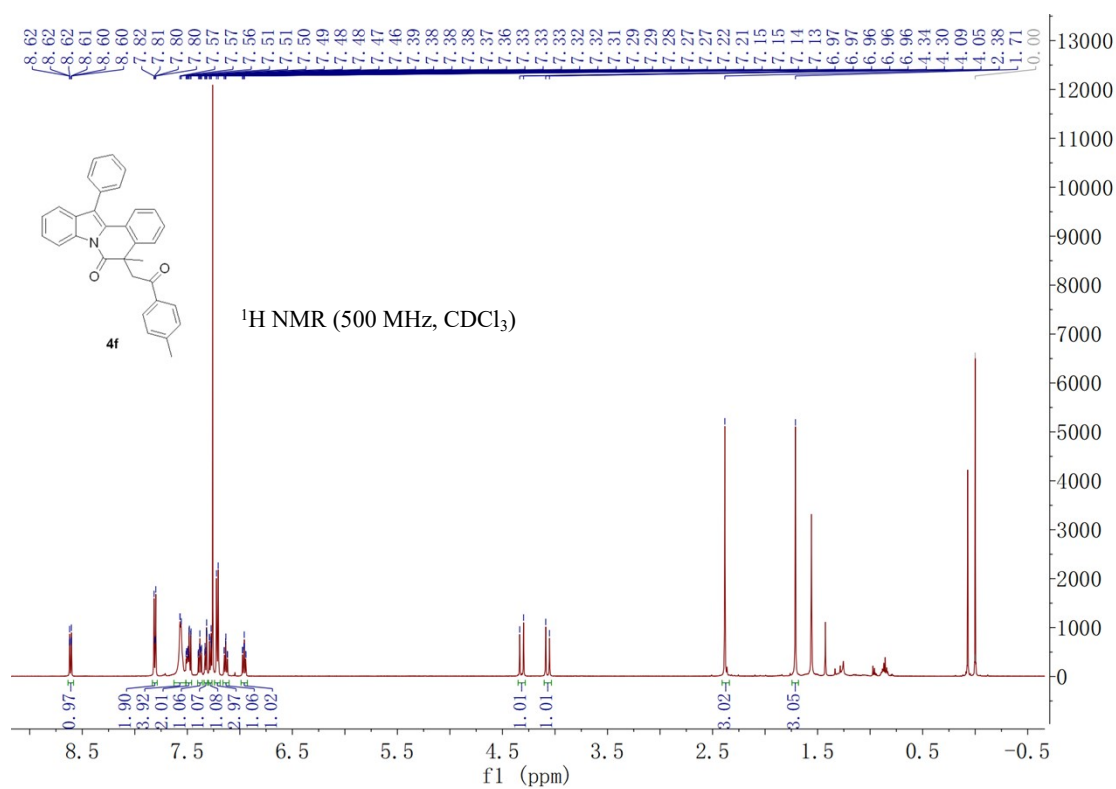


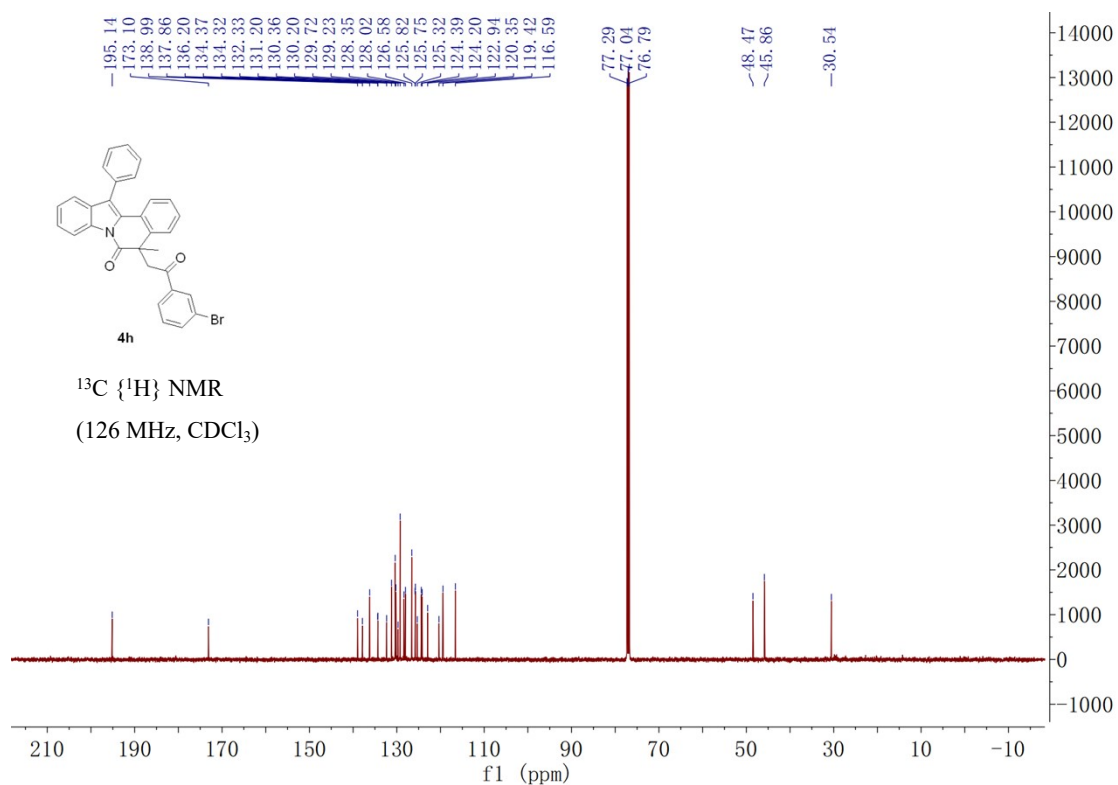
5-methyl-5-(2-oxo-2-(*o*-tolyl)ethyl)-12-phenylindolo[2,1-*a*]isoquinolin-6(5H)-one **4e**



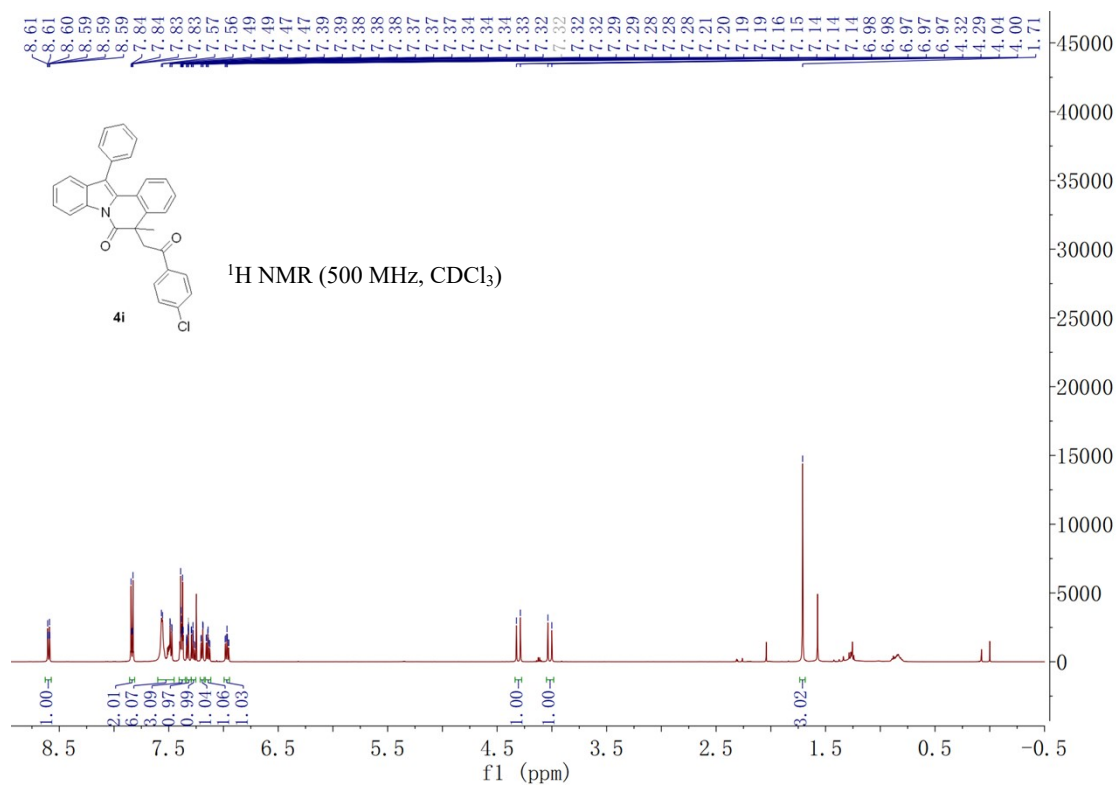


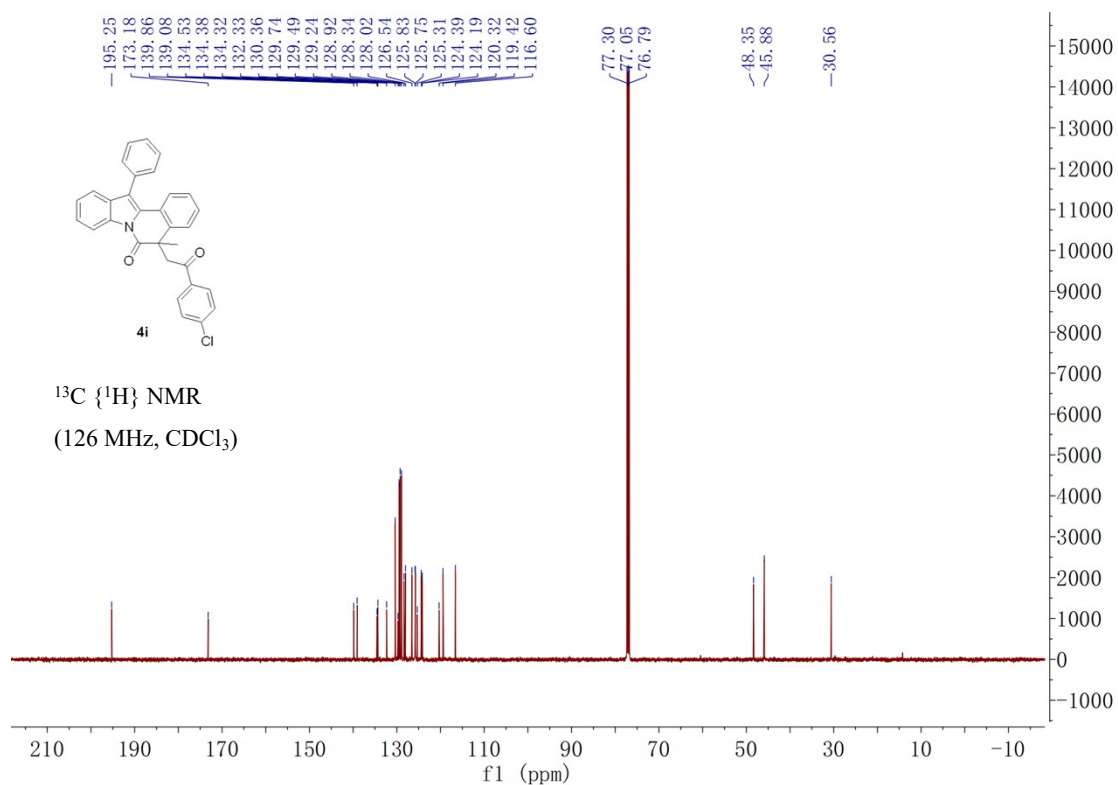
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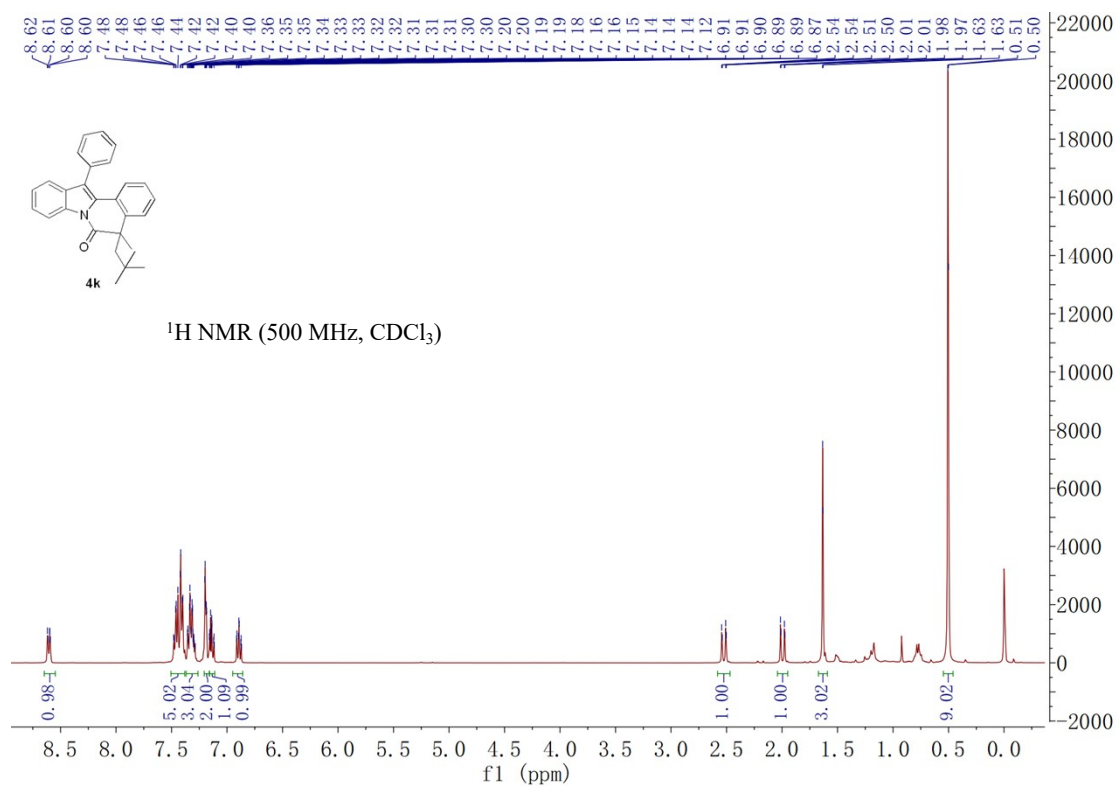


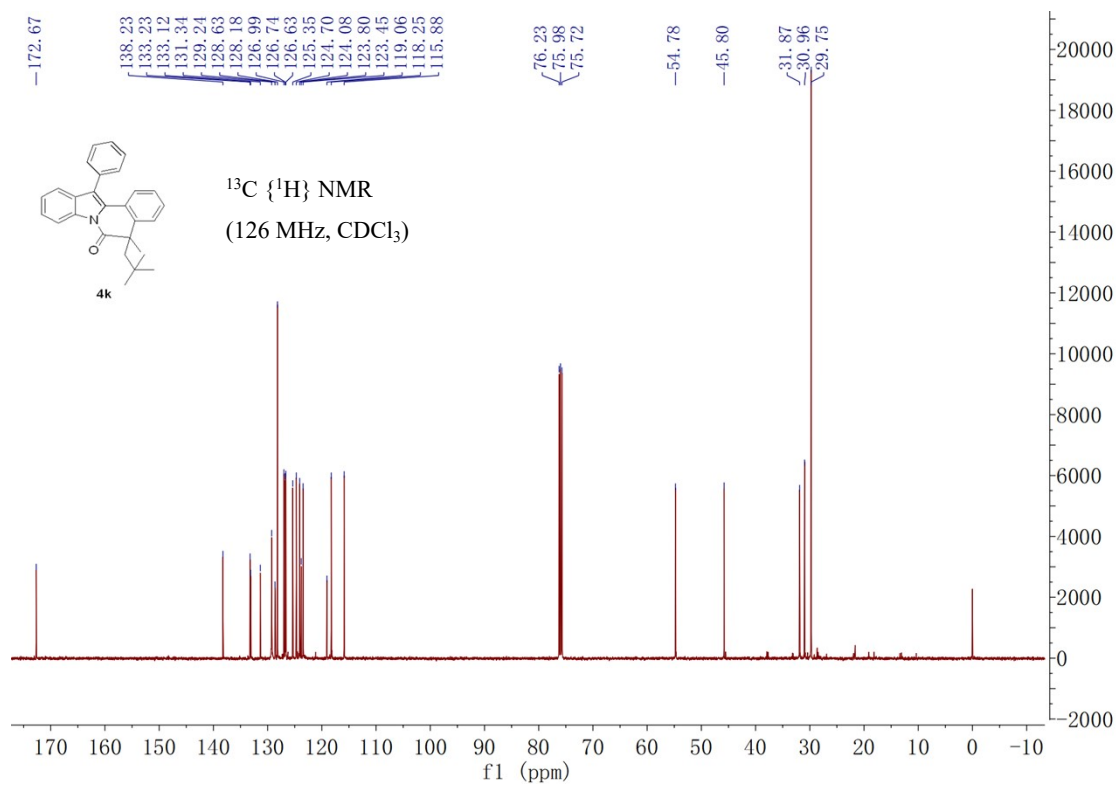
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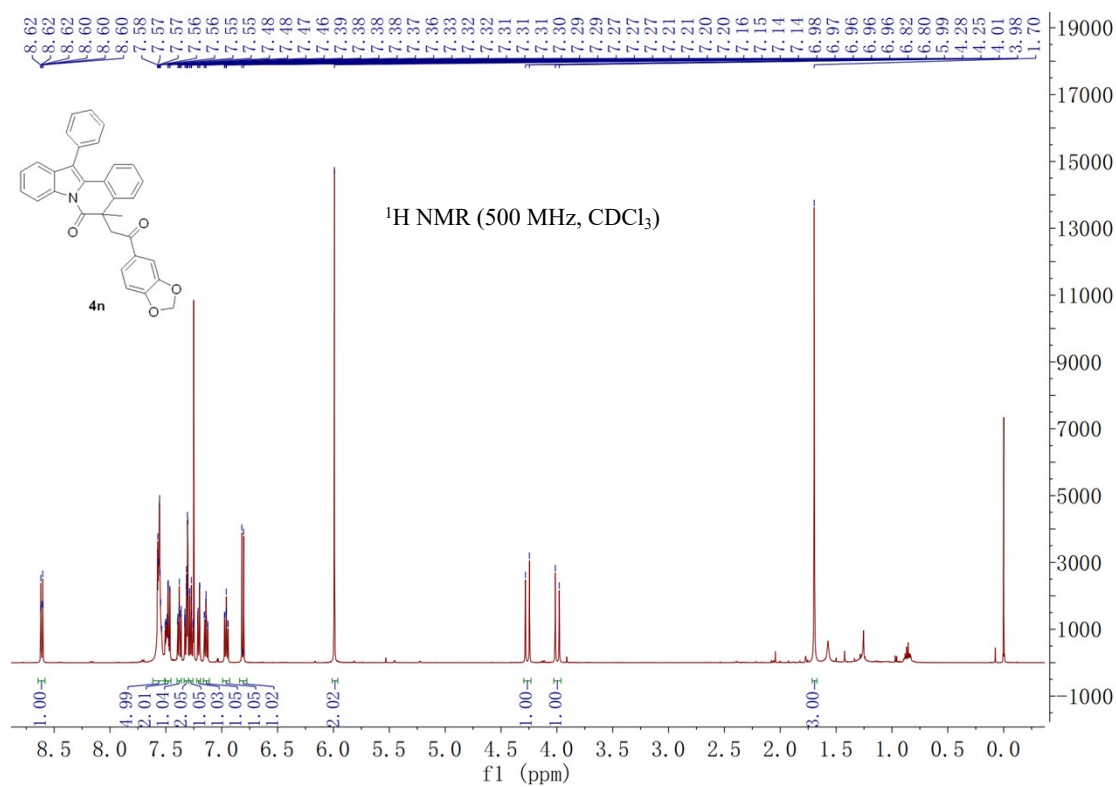


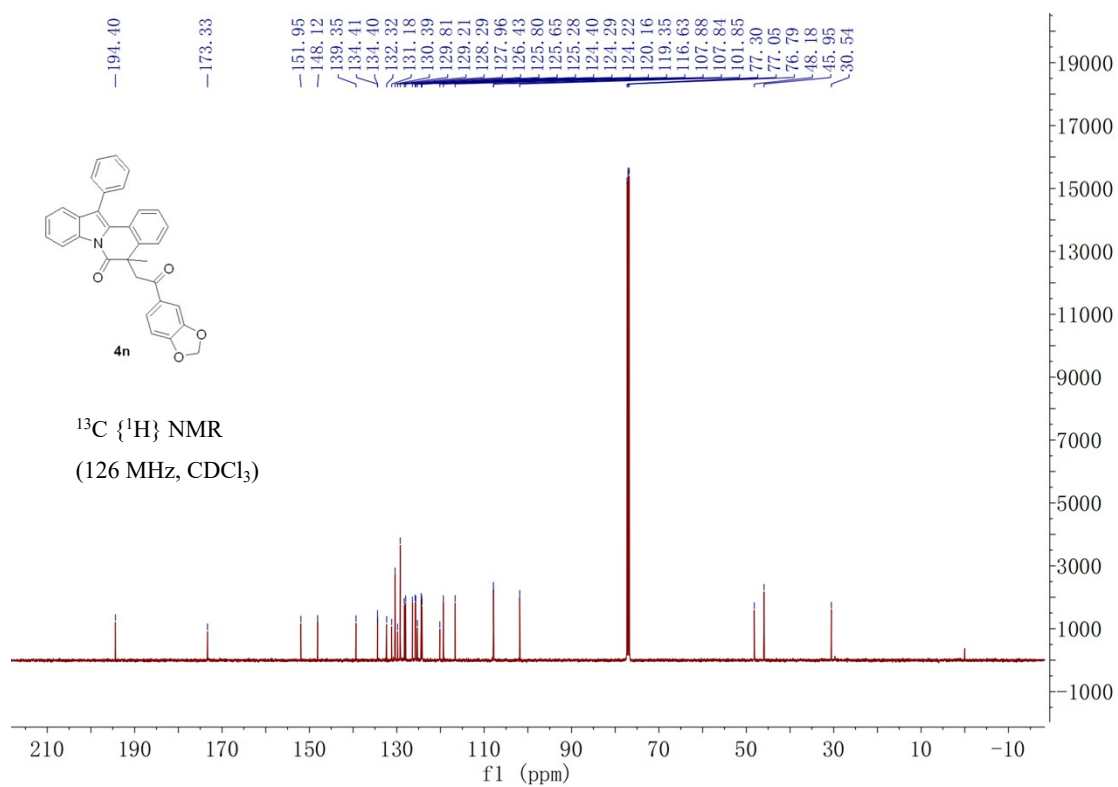
5-methyl-5-neopentyl-12-phenylindolo[2,1-a]isoquinolin-6(5H)-one 4k





5-(2-(benzo[d][1,3]dioxol-5-yl)-2-oxoethyl)-5-methyl-12-phenylindolo[2,1-a]isoquinolin-6(5H)-one **4n**





5-methyl-5-(2-(naphthalen-2-yl)-2-oxoethyl)-12-phenylindolo[2,1-a]isoquinolin-6(5H)-one **4m**

