

Supporting Information

Highly efficient construction of CF₃-containing 3,3'-pyrrolidinyl-dispirooxindoles via base-catalyzed diastereoselective 1,3-dipolar cycloaddition reactions

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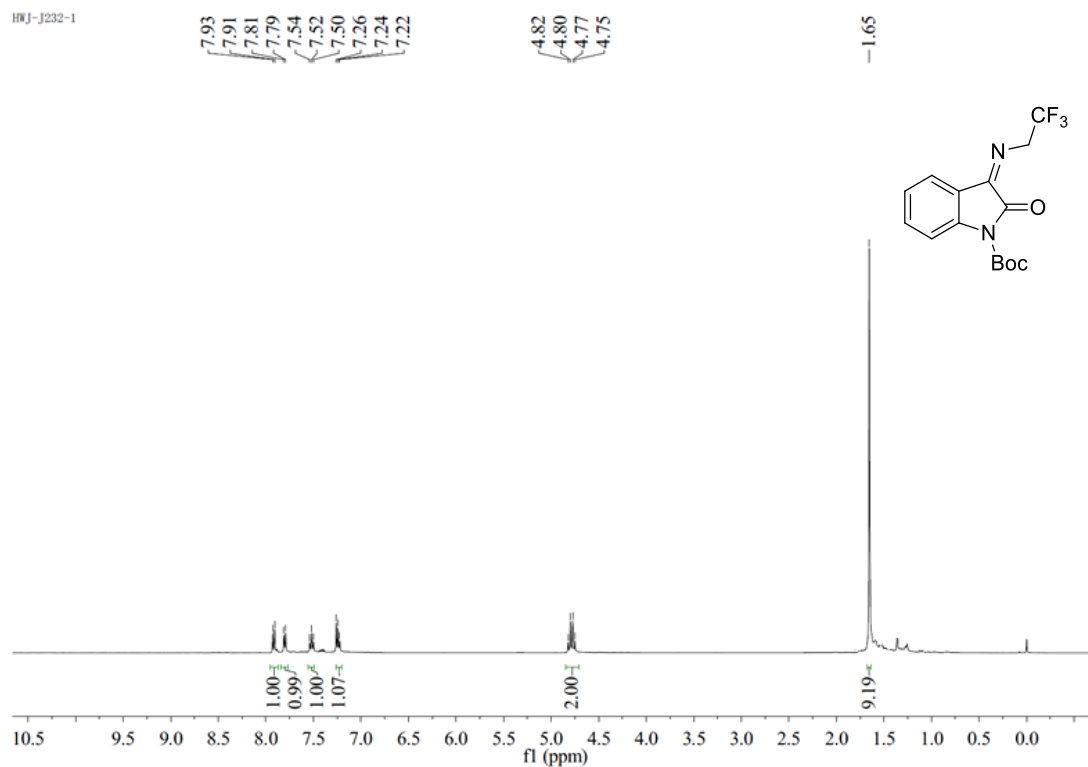
⁺ These two authors contributed equally to the work

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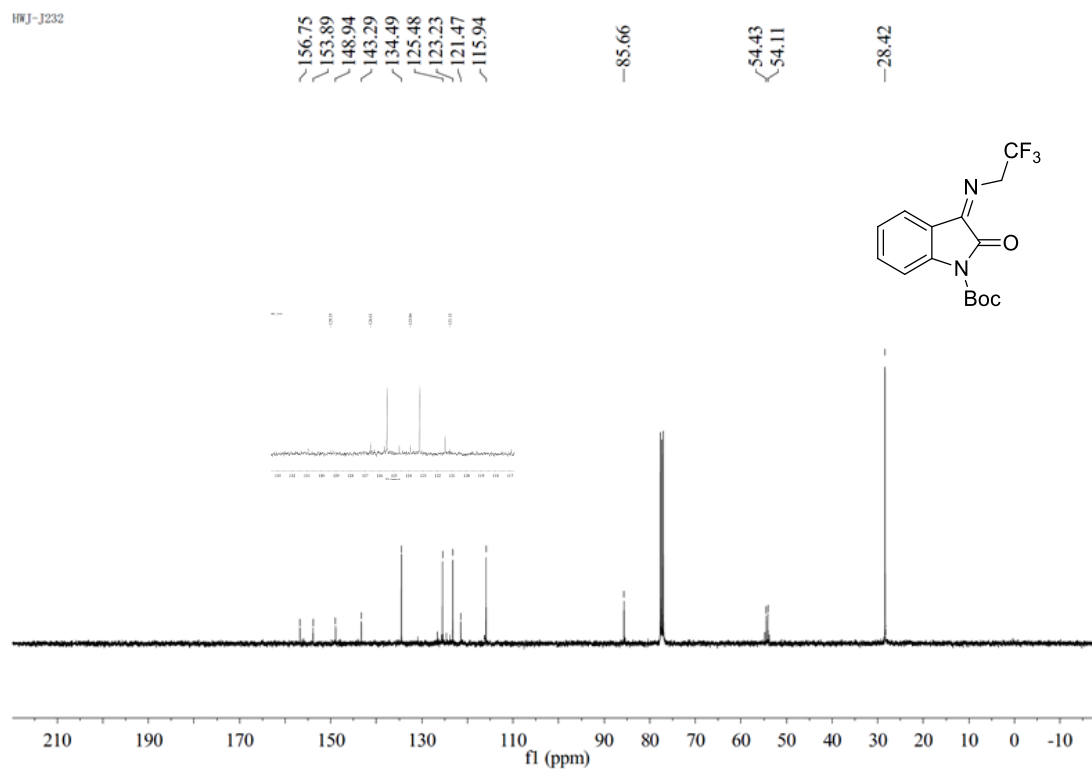
Copies of NMR spectra of compounds.....(S2)

Copies of NMR spectra of compounds

¹HNMR of compound J-232 (in CDCl₃)

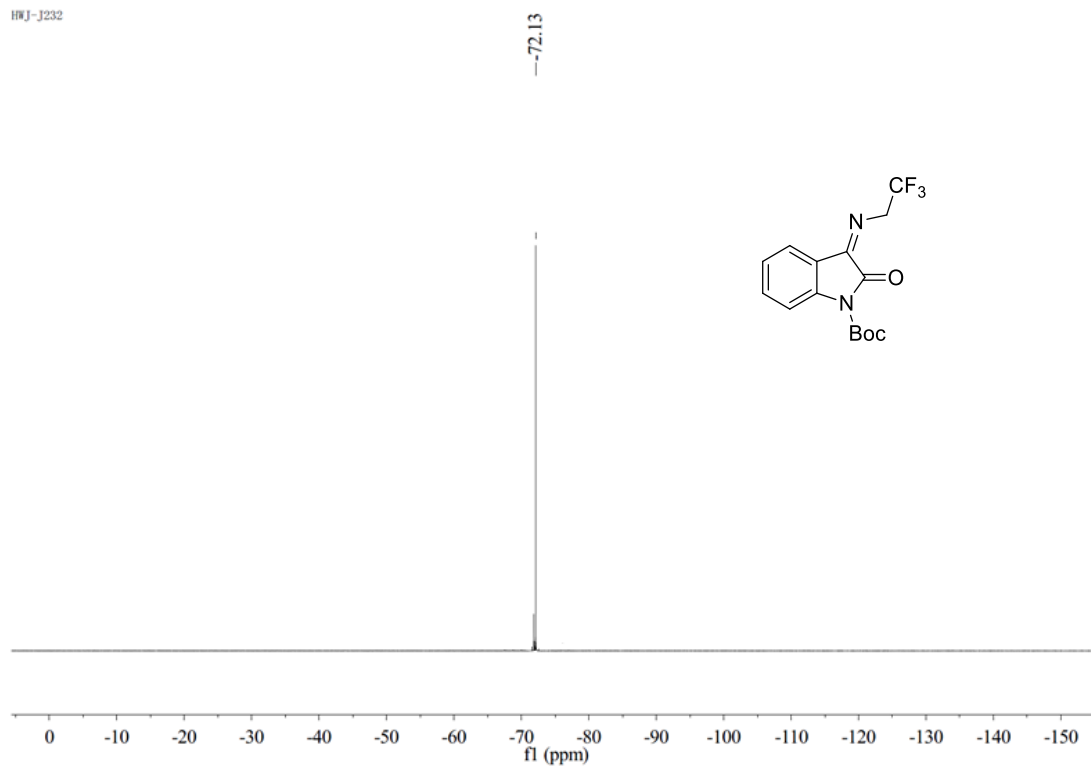


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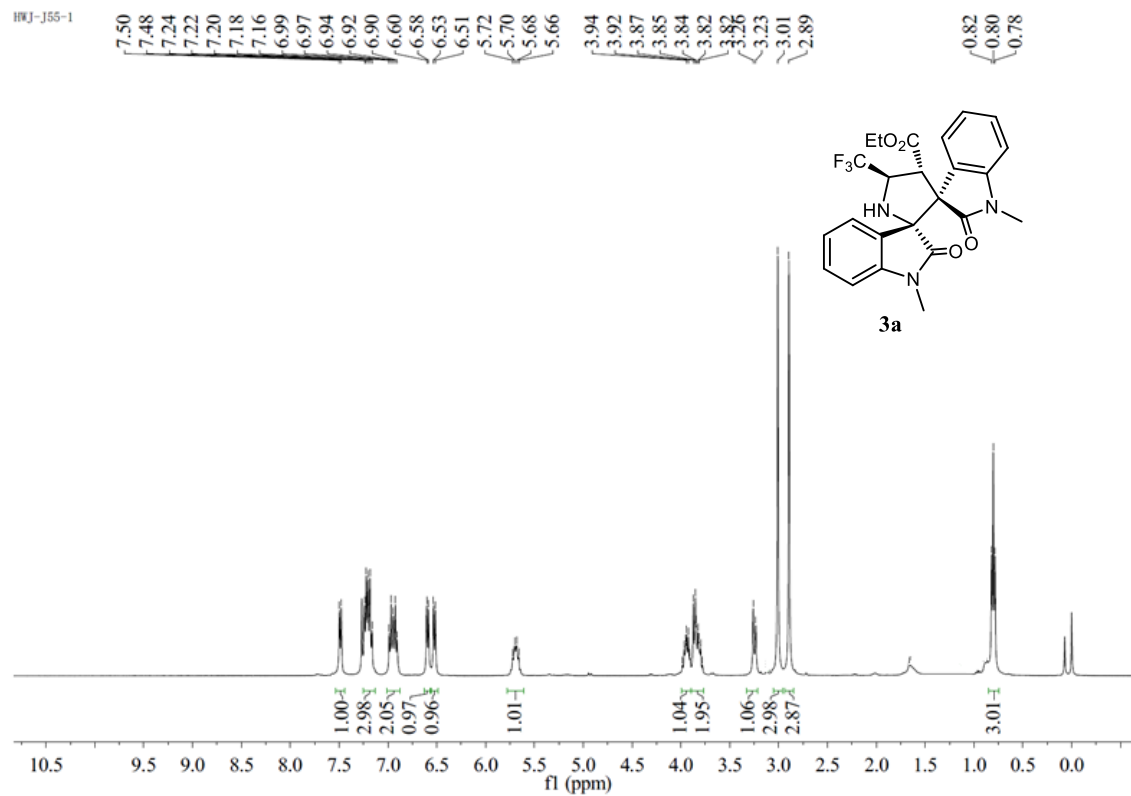
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HWJ-J232

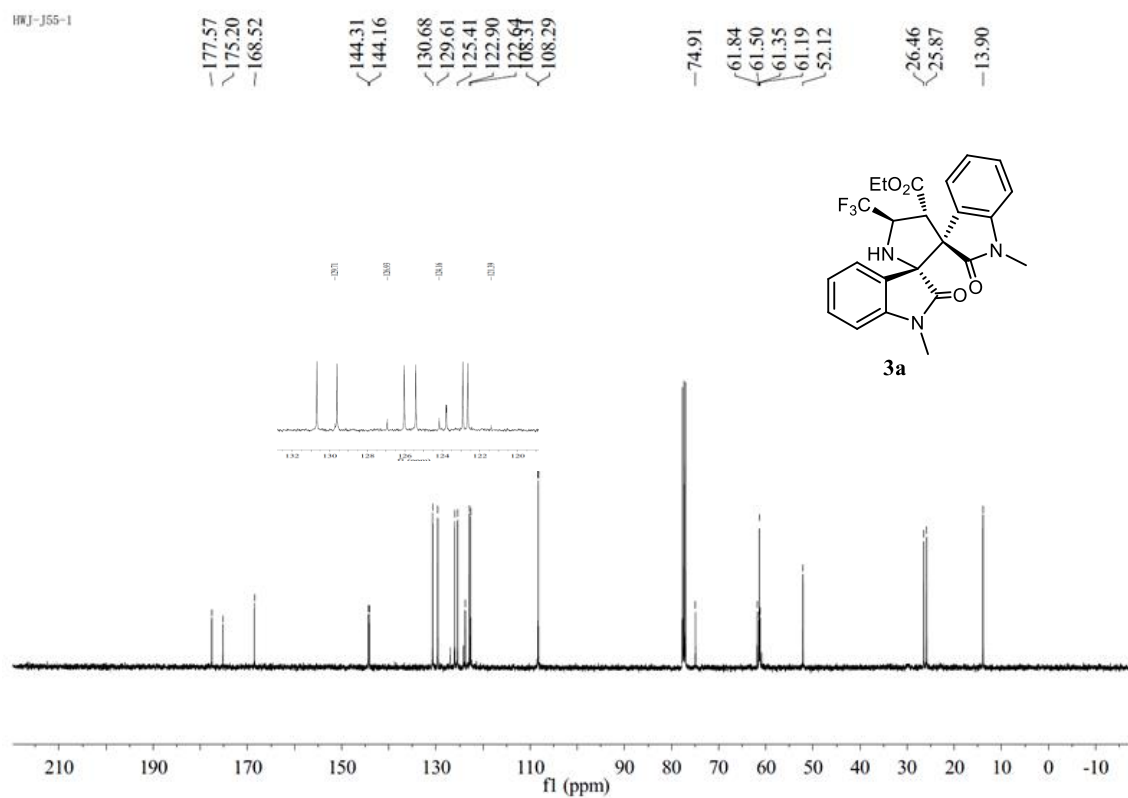


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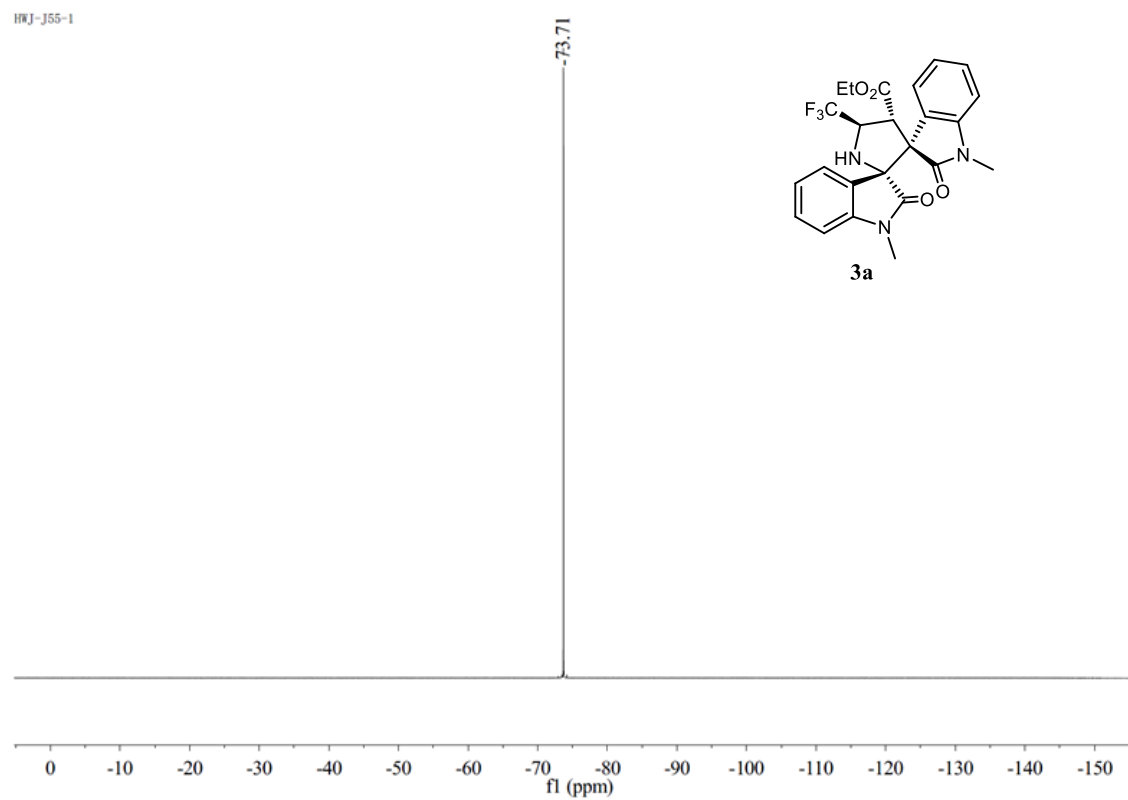
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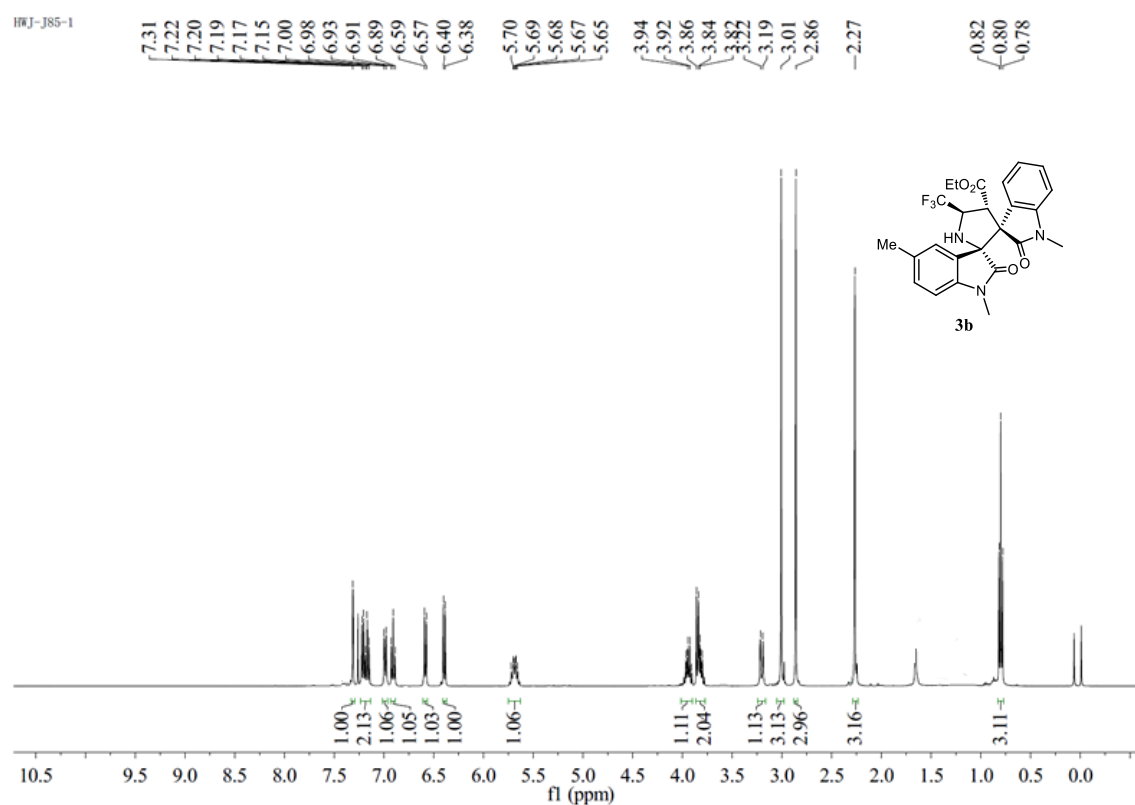
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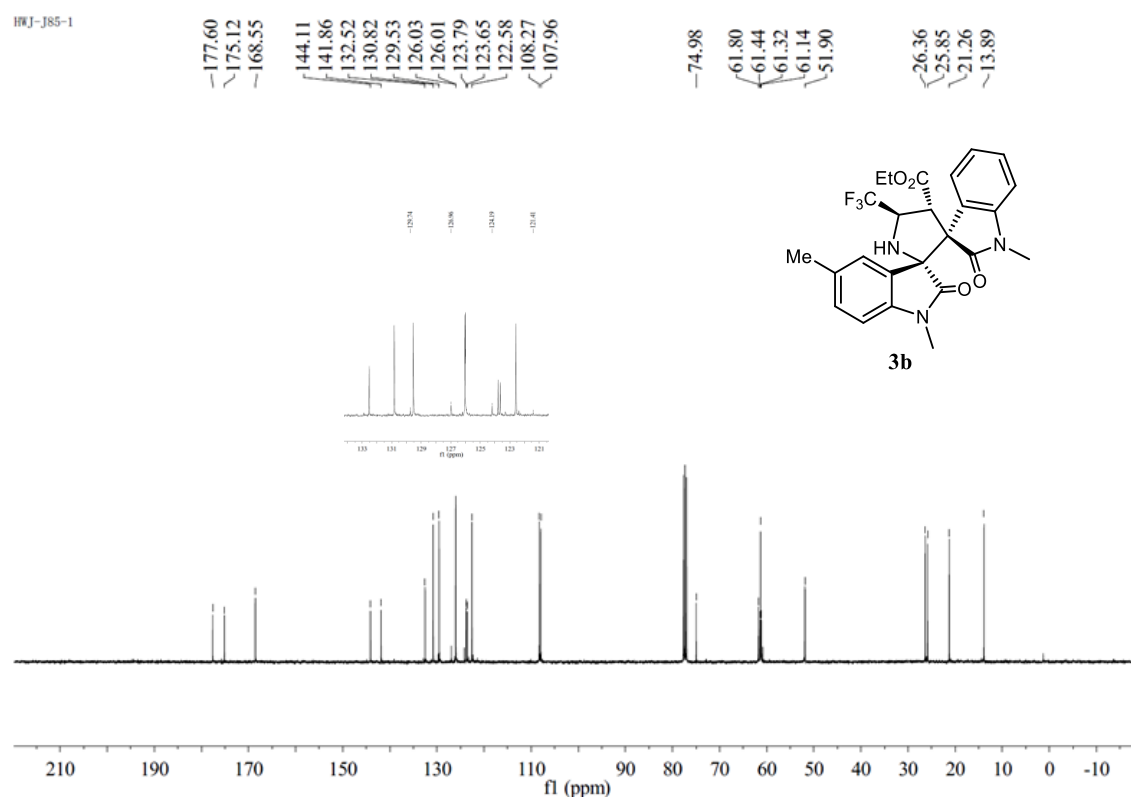
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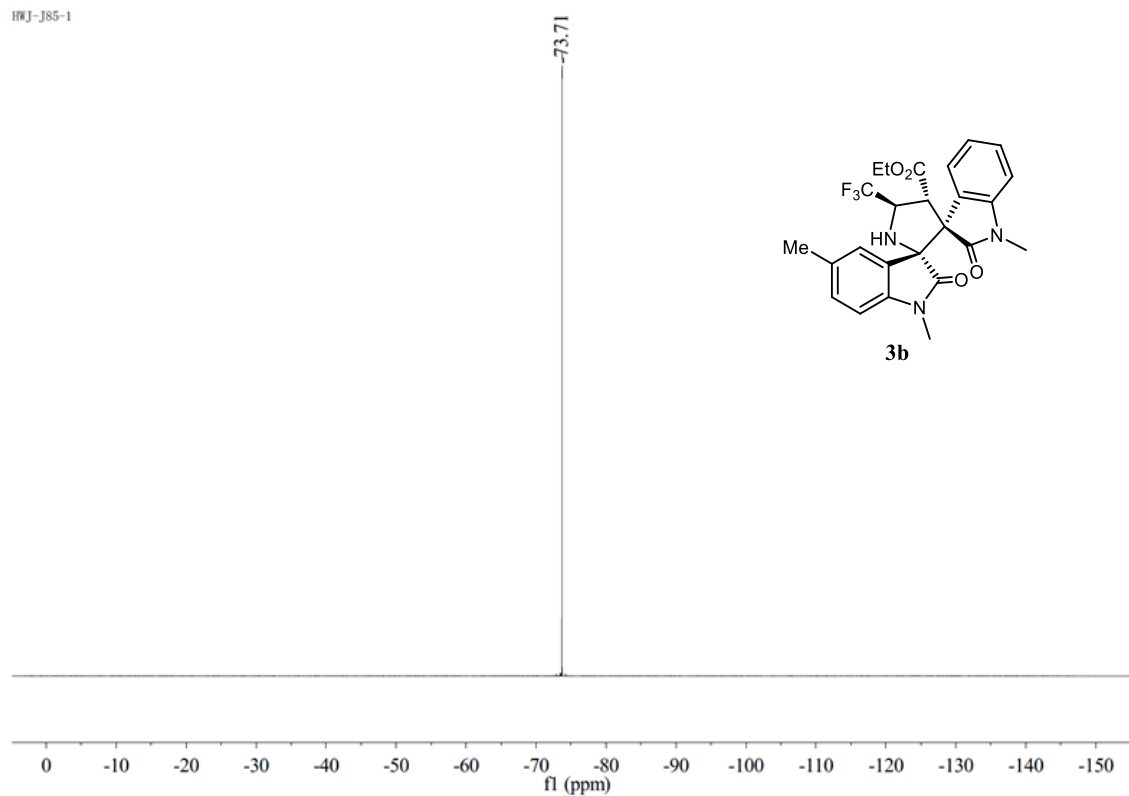


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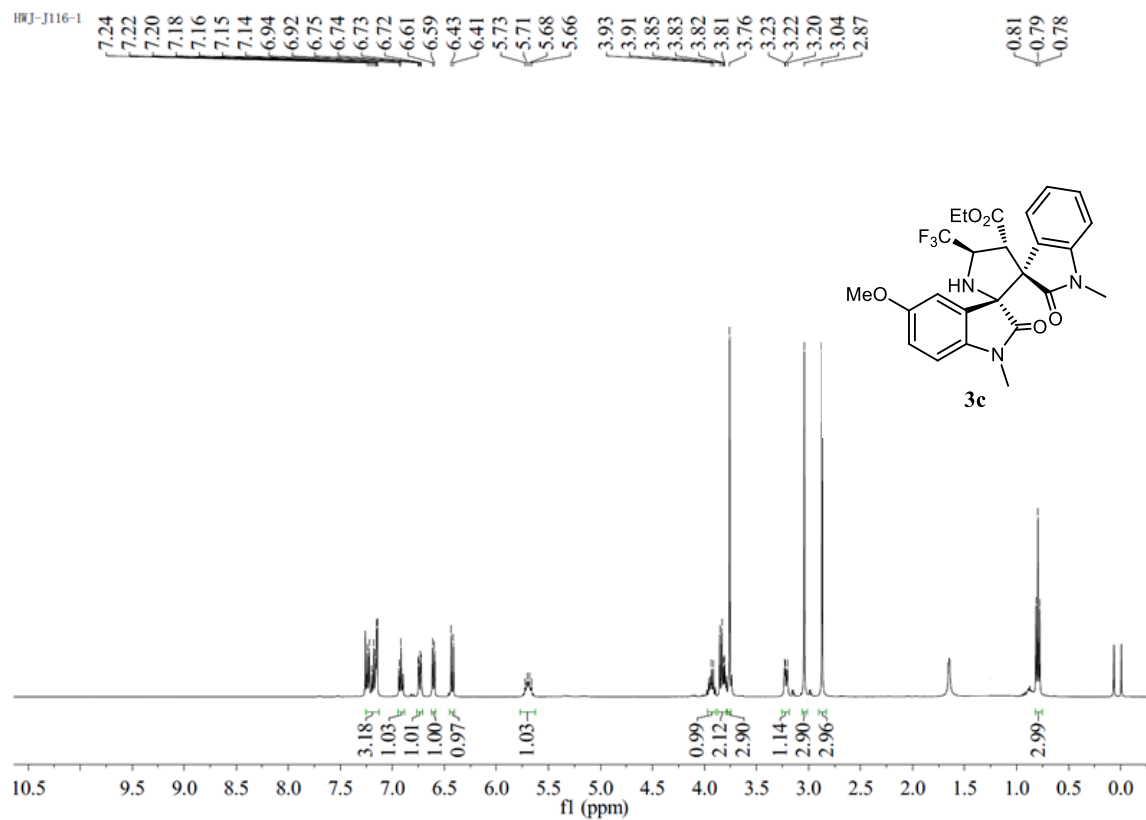
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HWJ-185-1



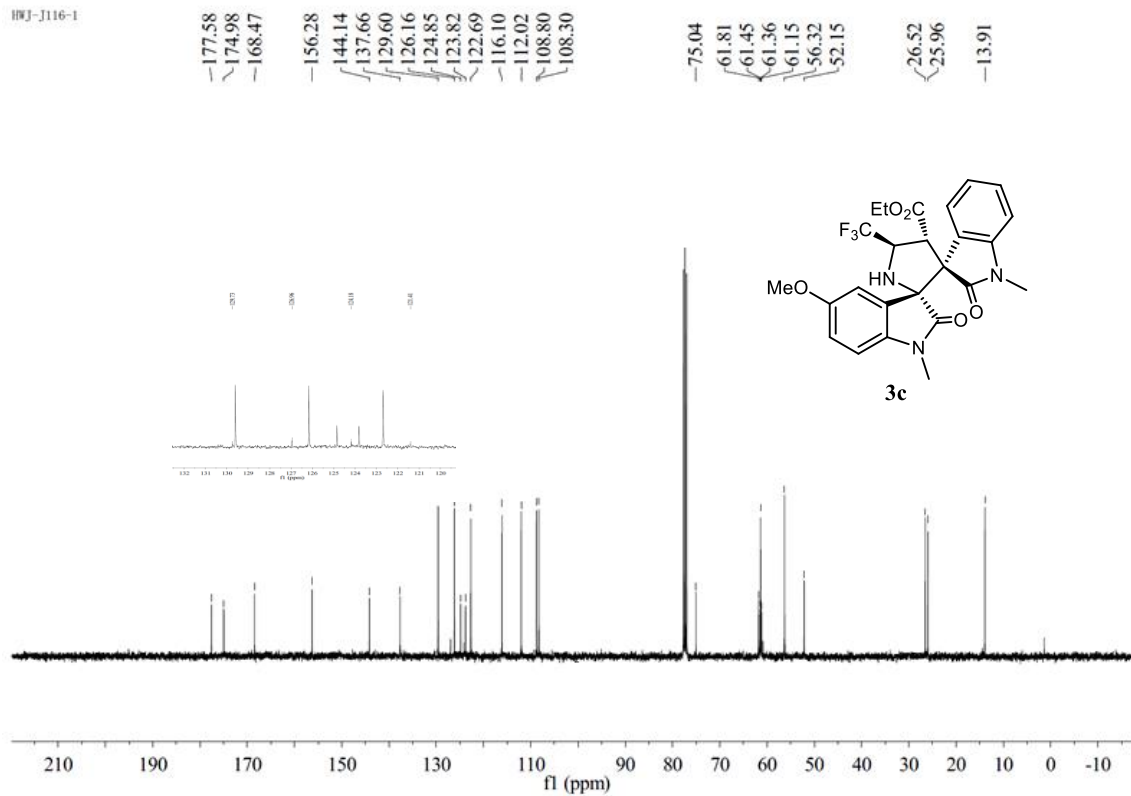
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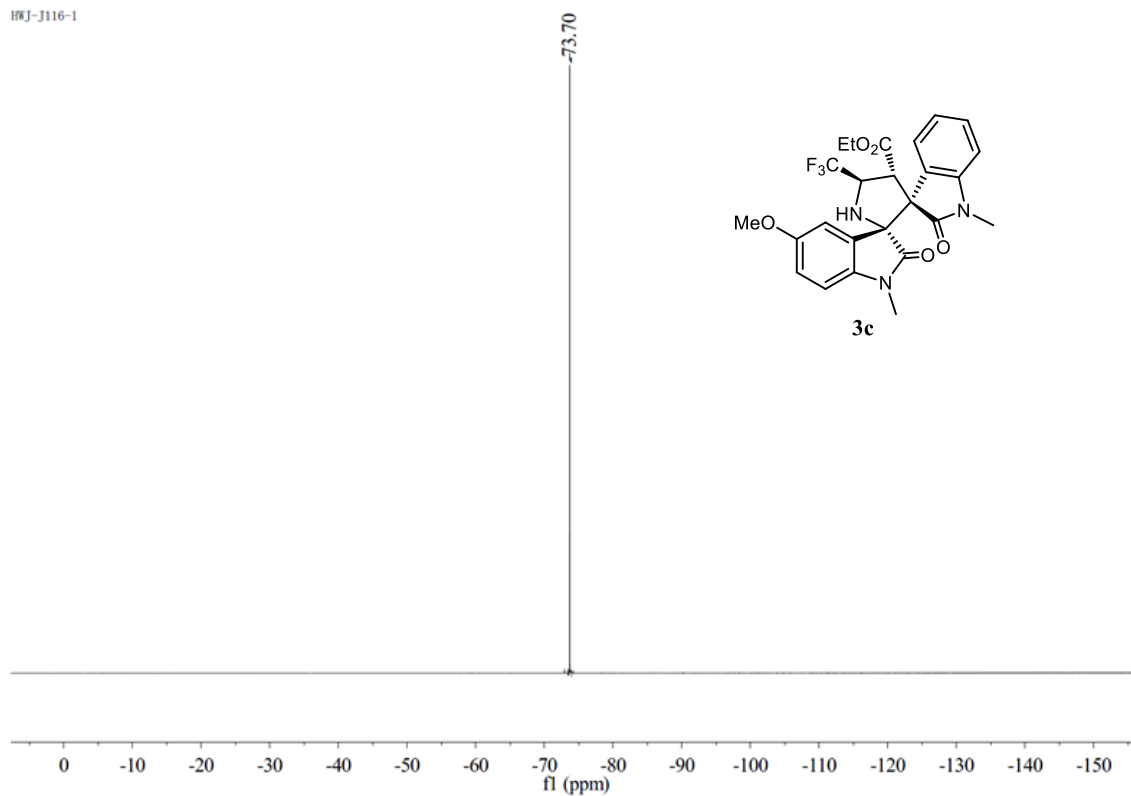
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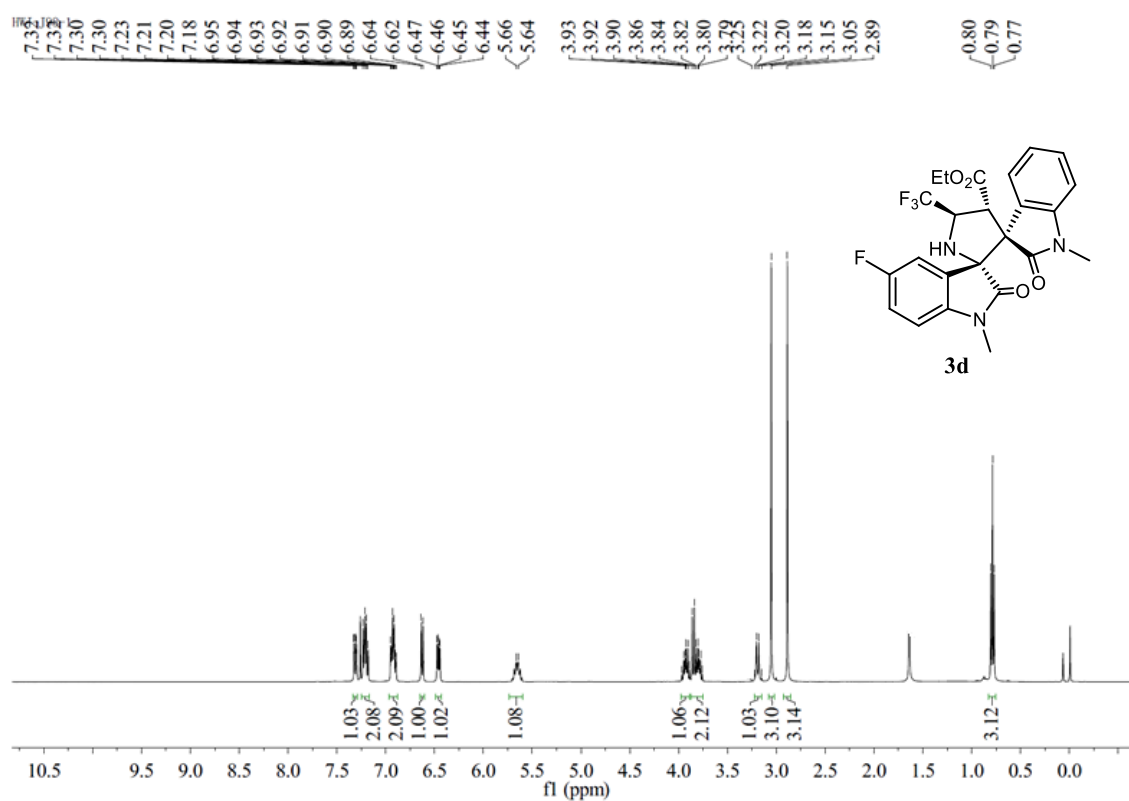


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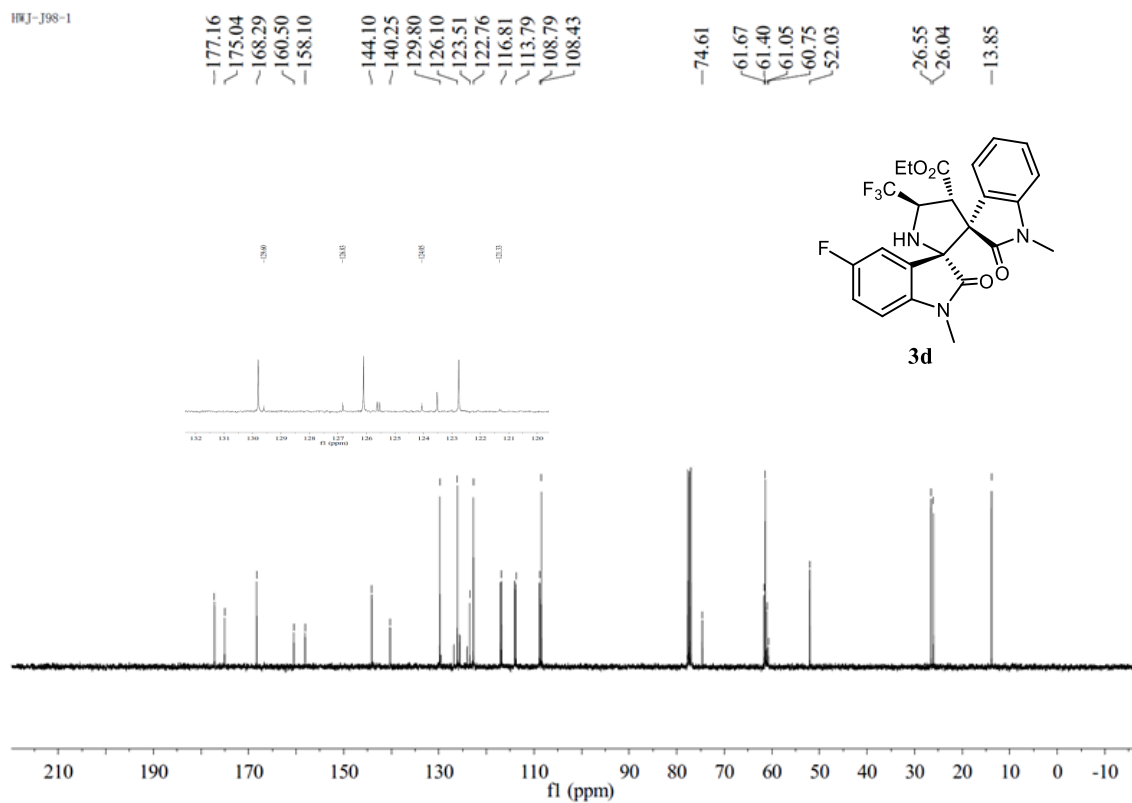
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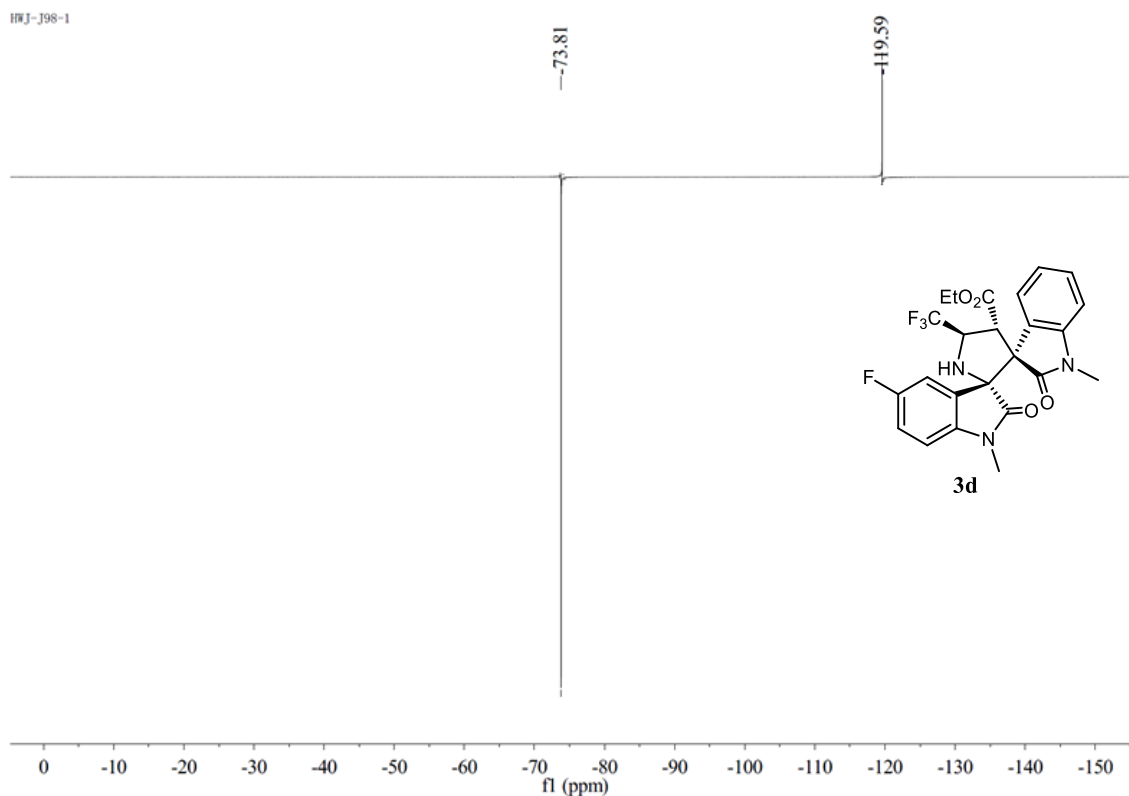
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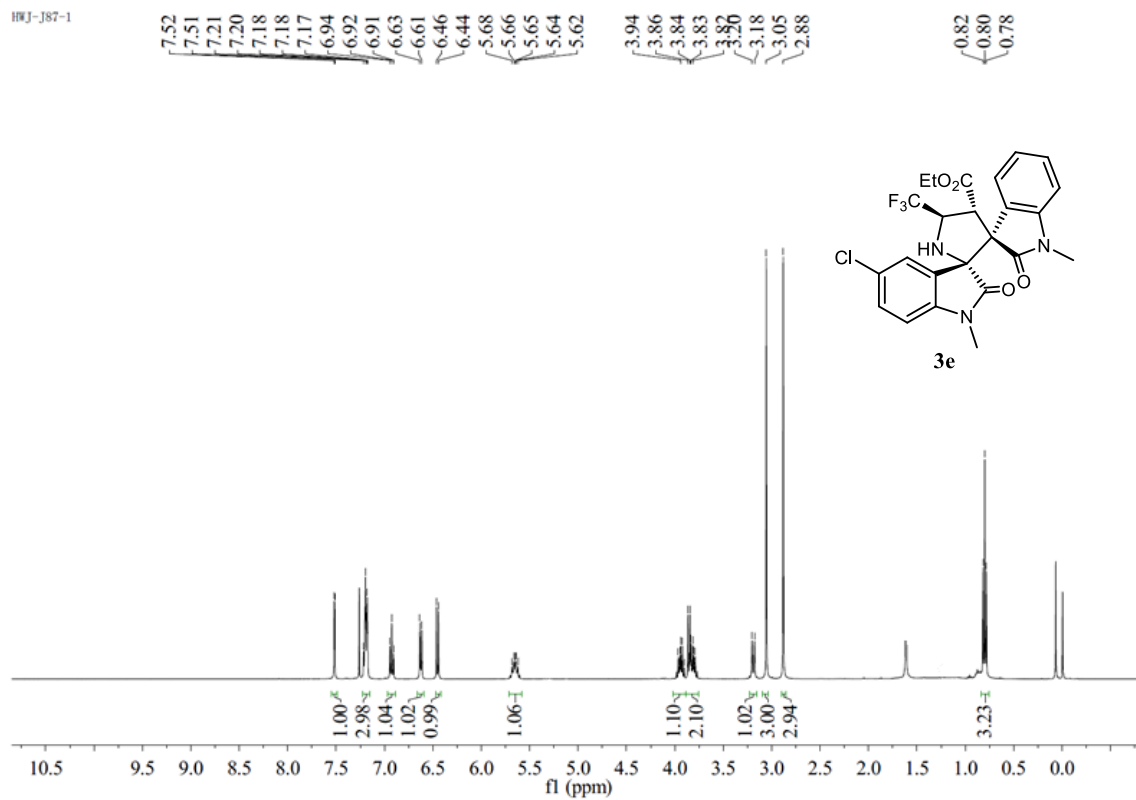
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¹⁹F NMR of compound **3d** (in CDCl₃)



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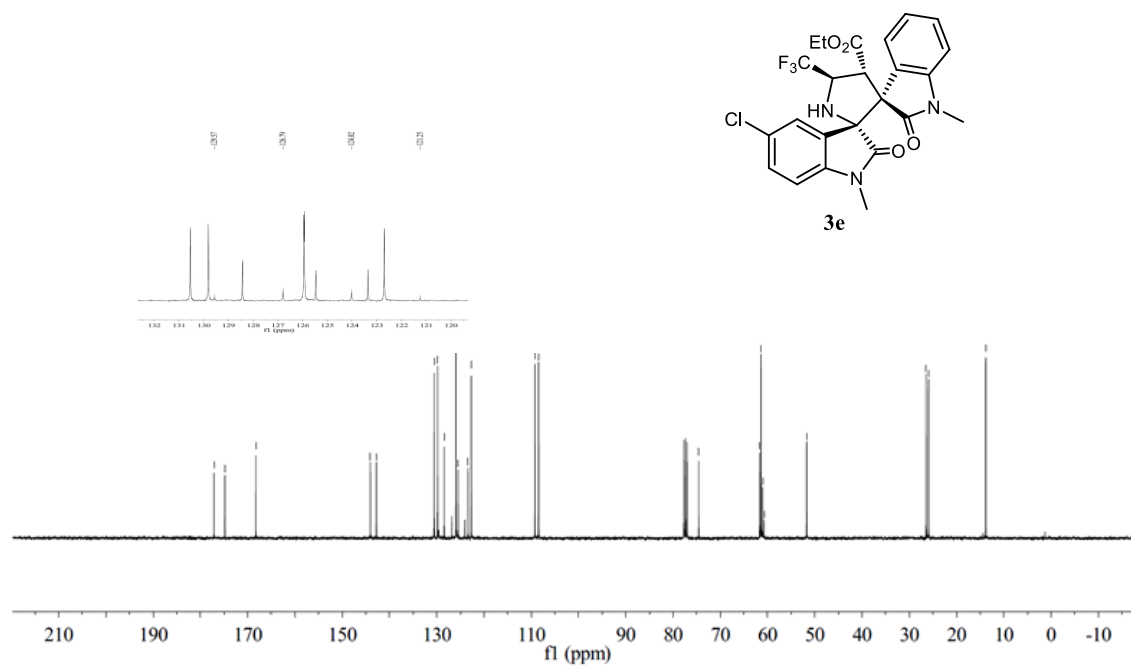


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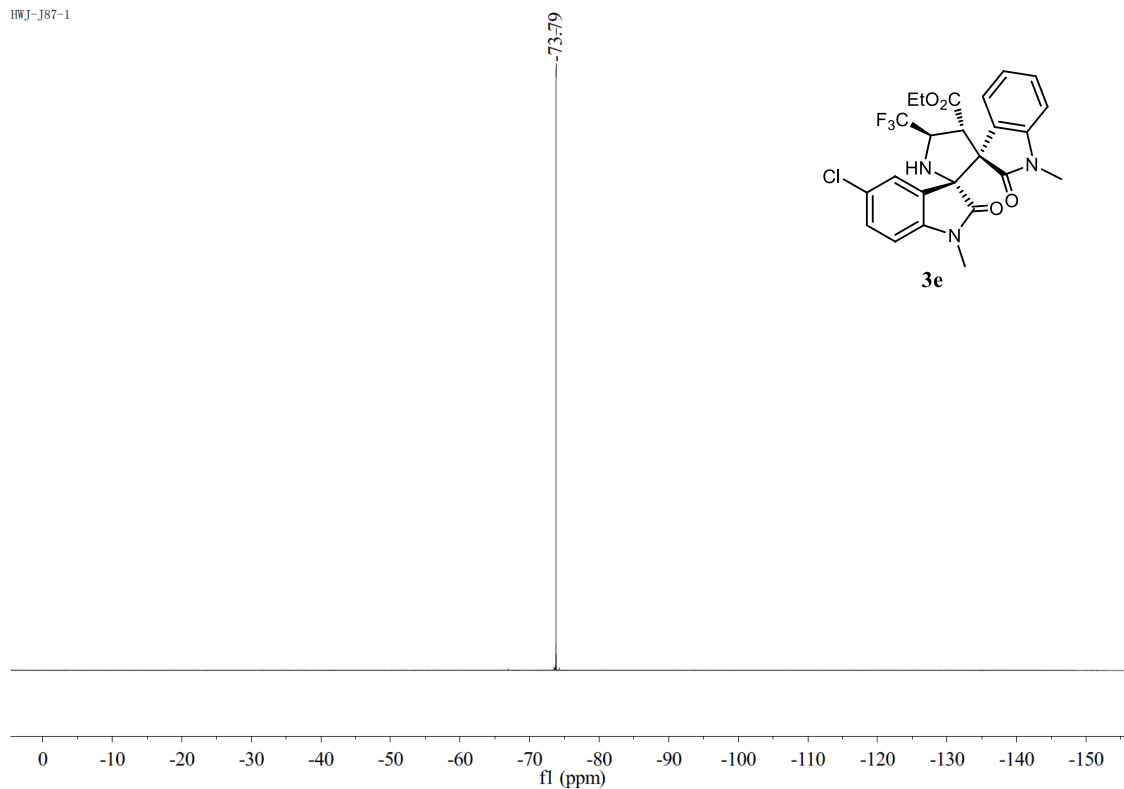
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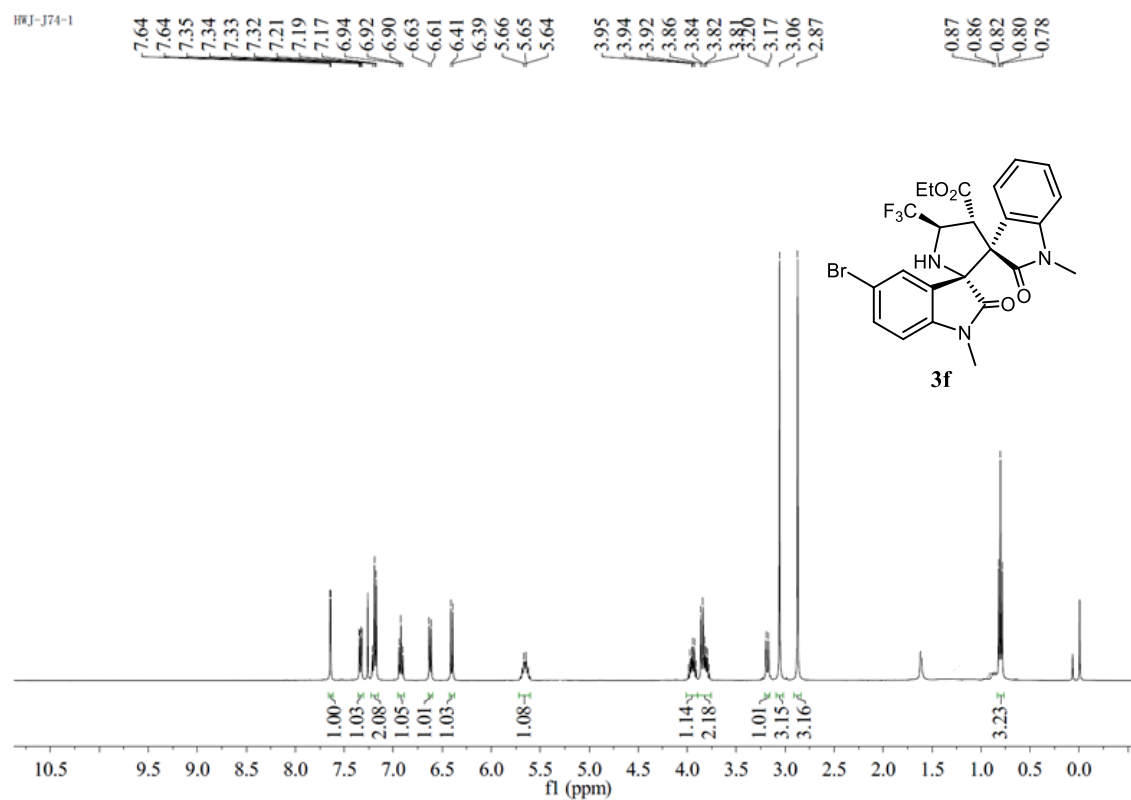


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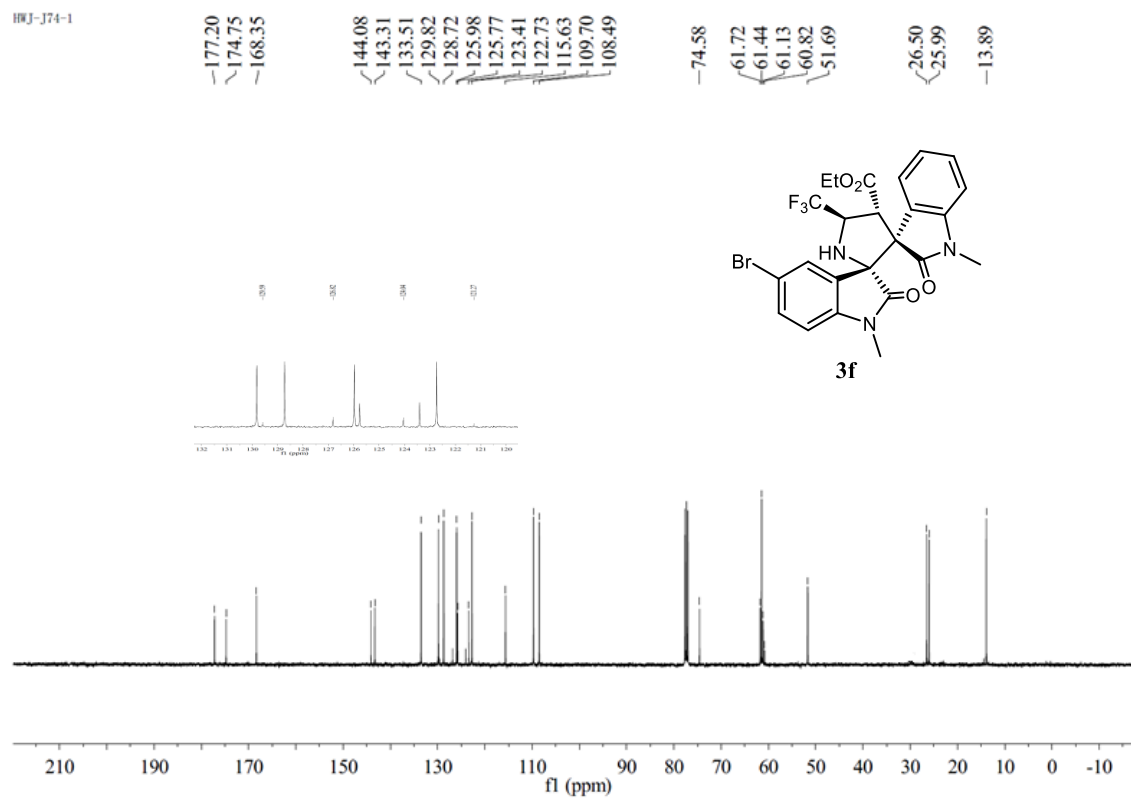
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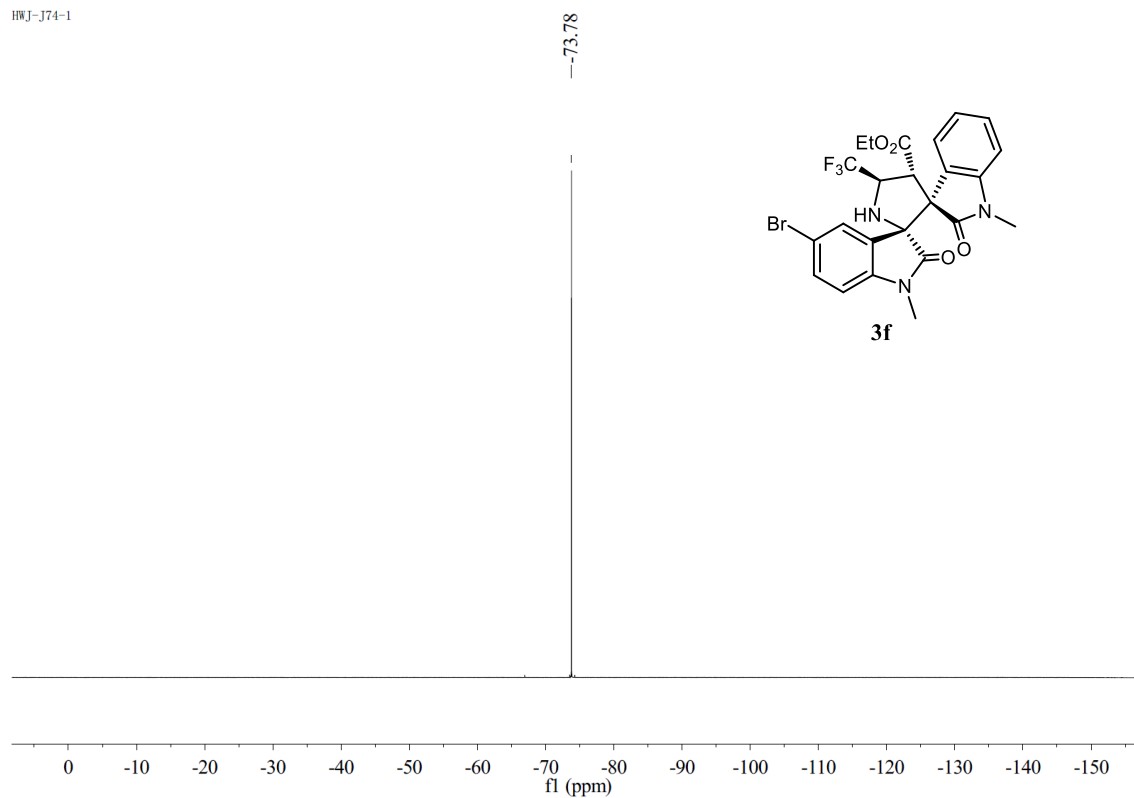


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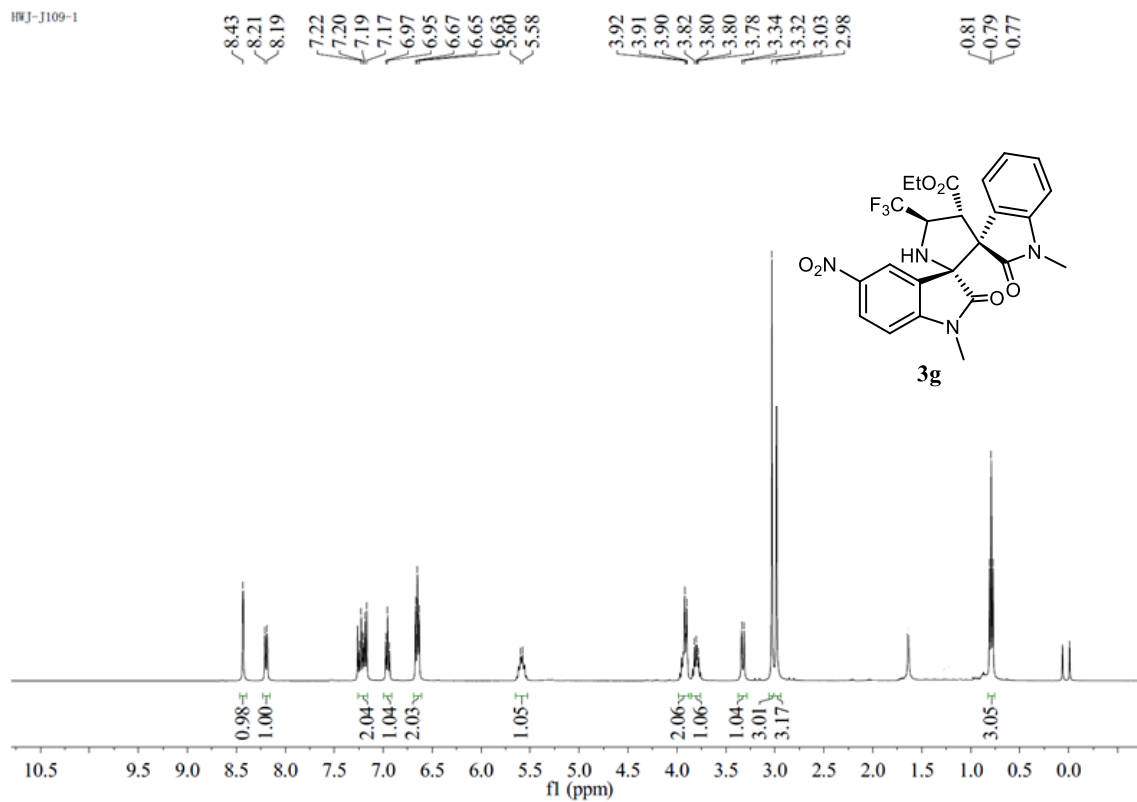
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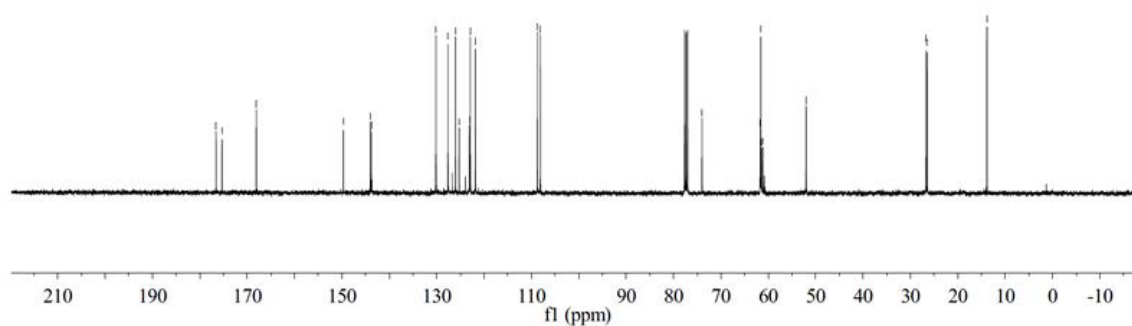
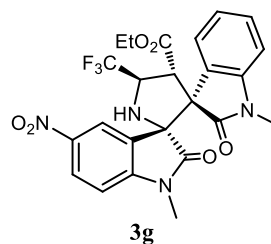
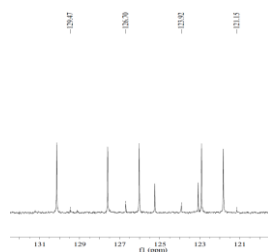
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¹³CNMR of compound **3g** (in CDCl₃)

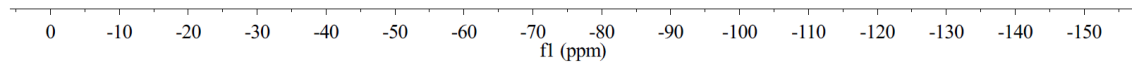
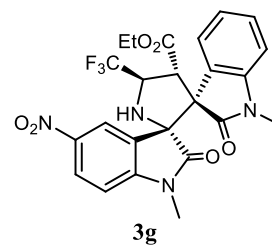
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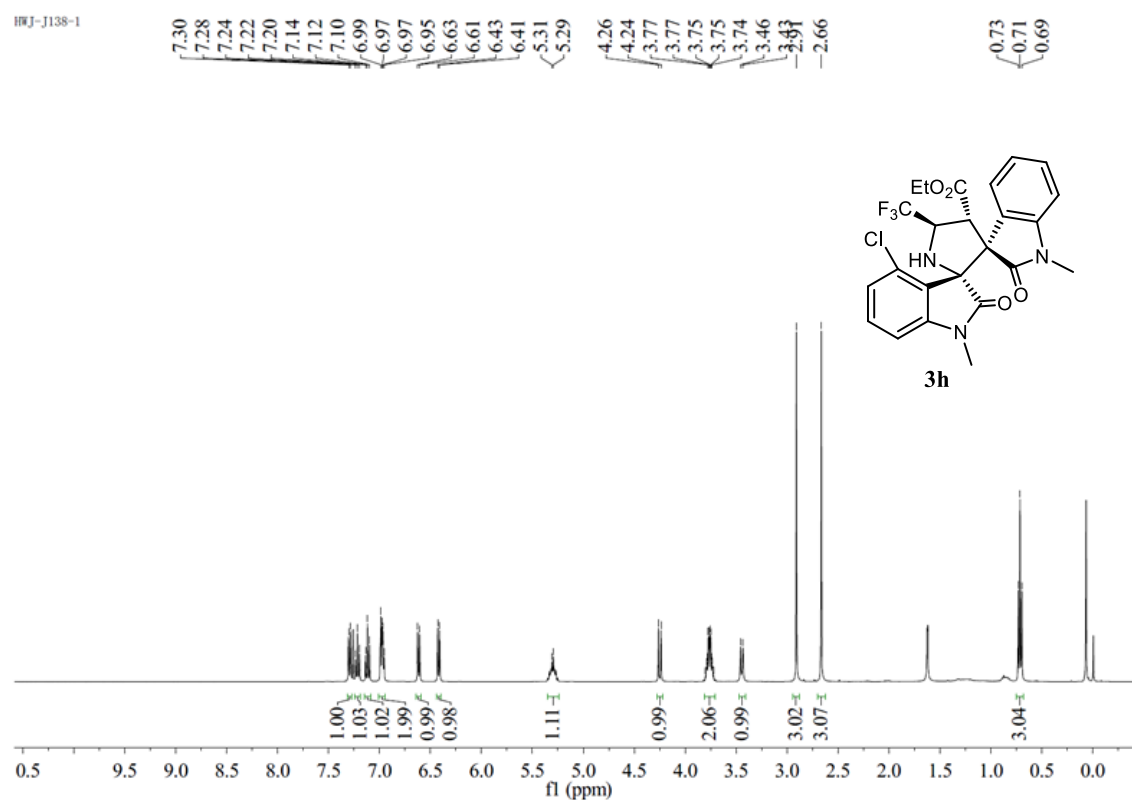
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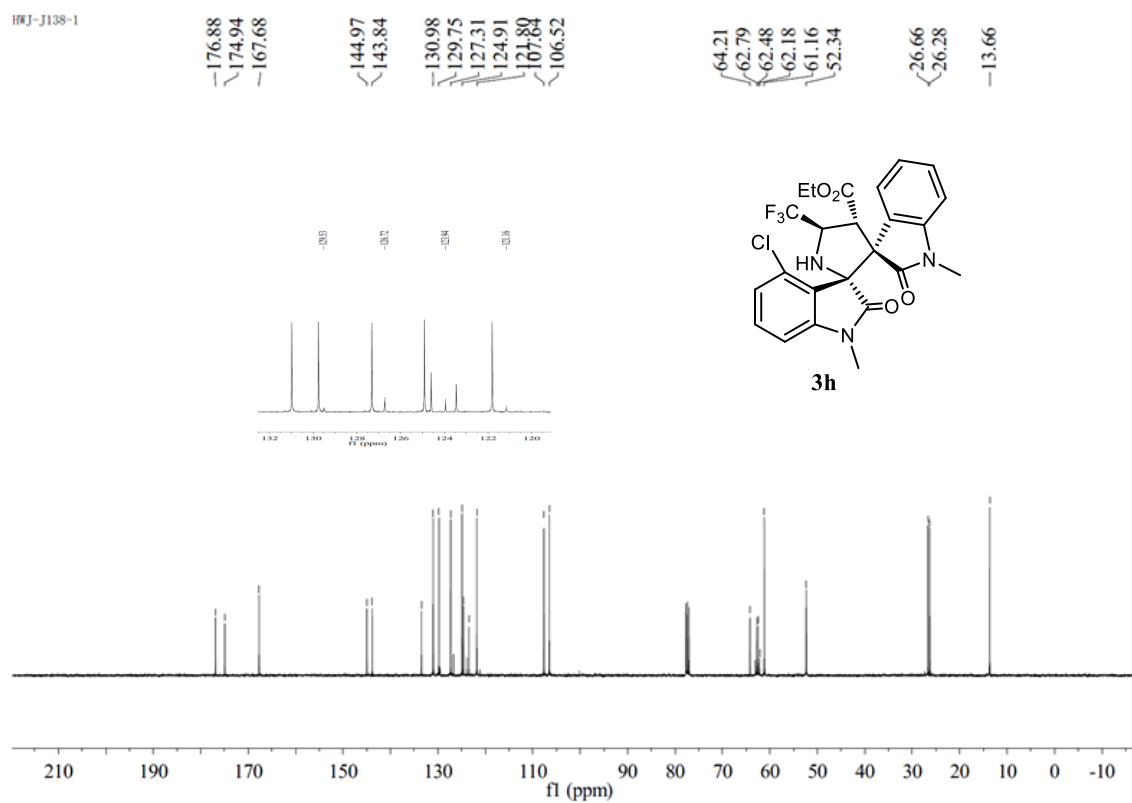
73.72



¹H NMR of compound **3h** (in CDCl₃)

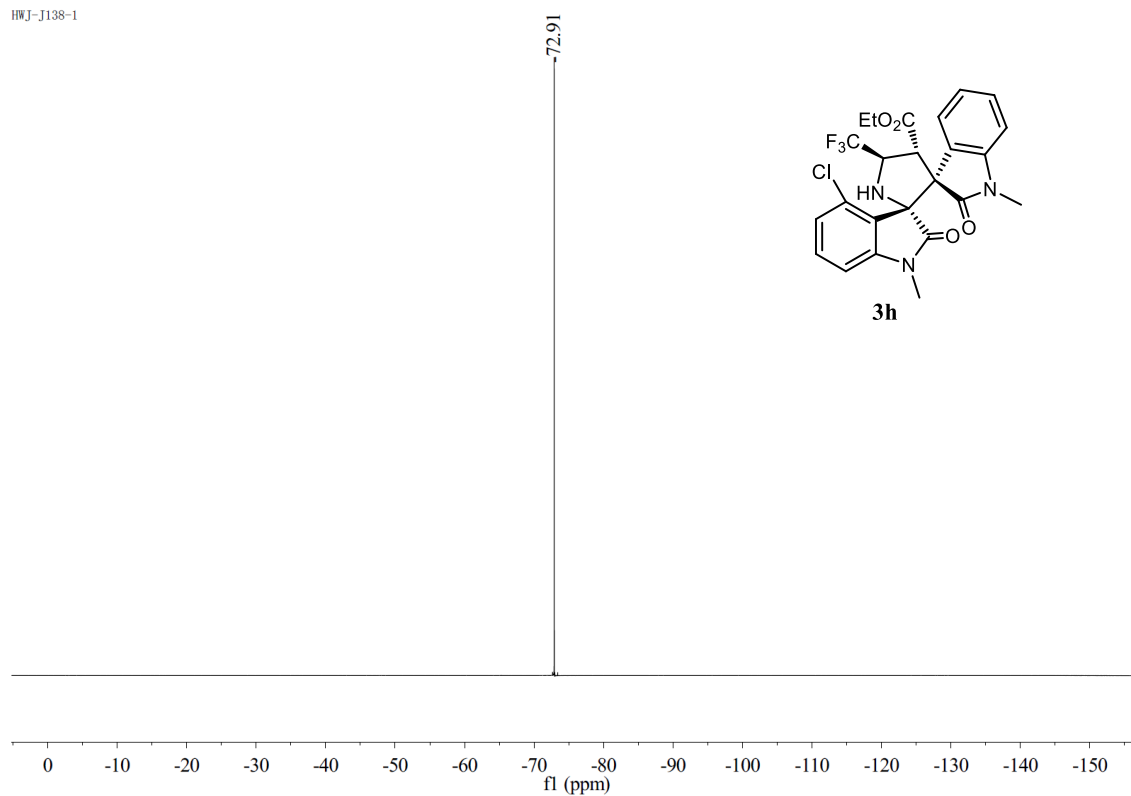


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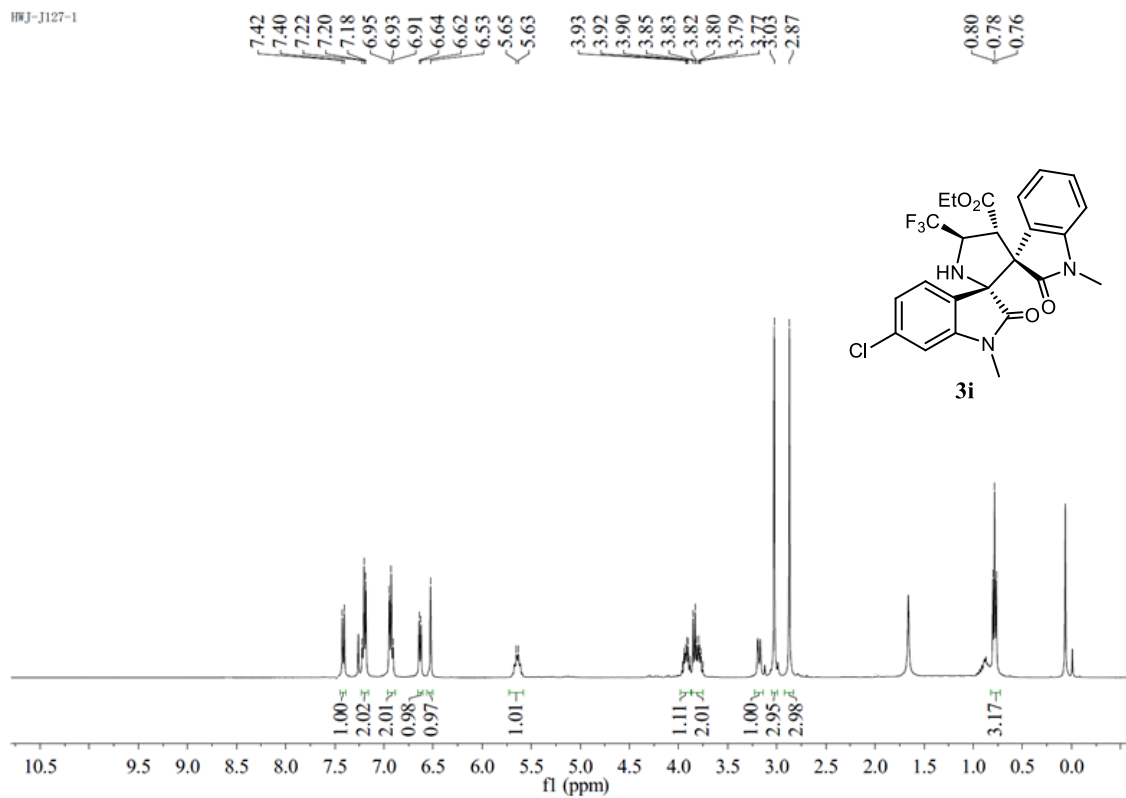
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HWJ-J138-1



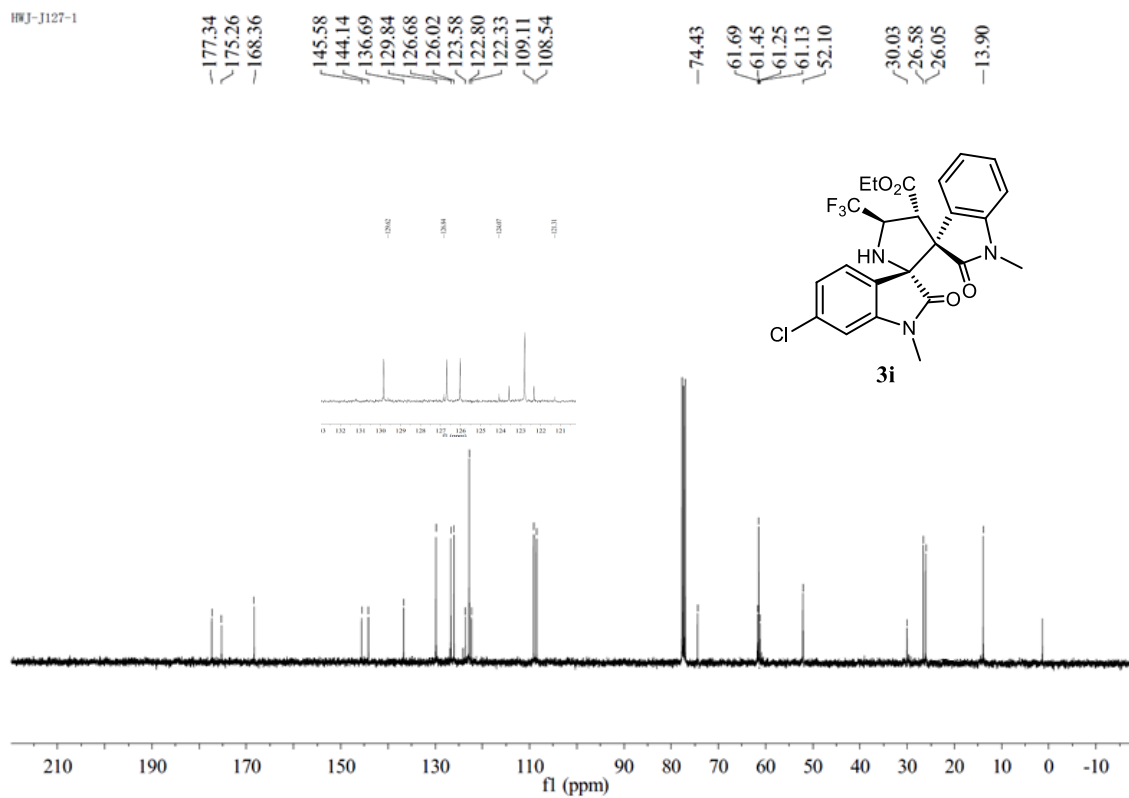
¹H NMR of compound **3i** (in CDCl₃)

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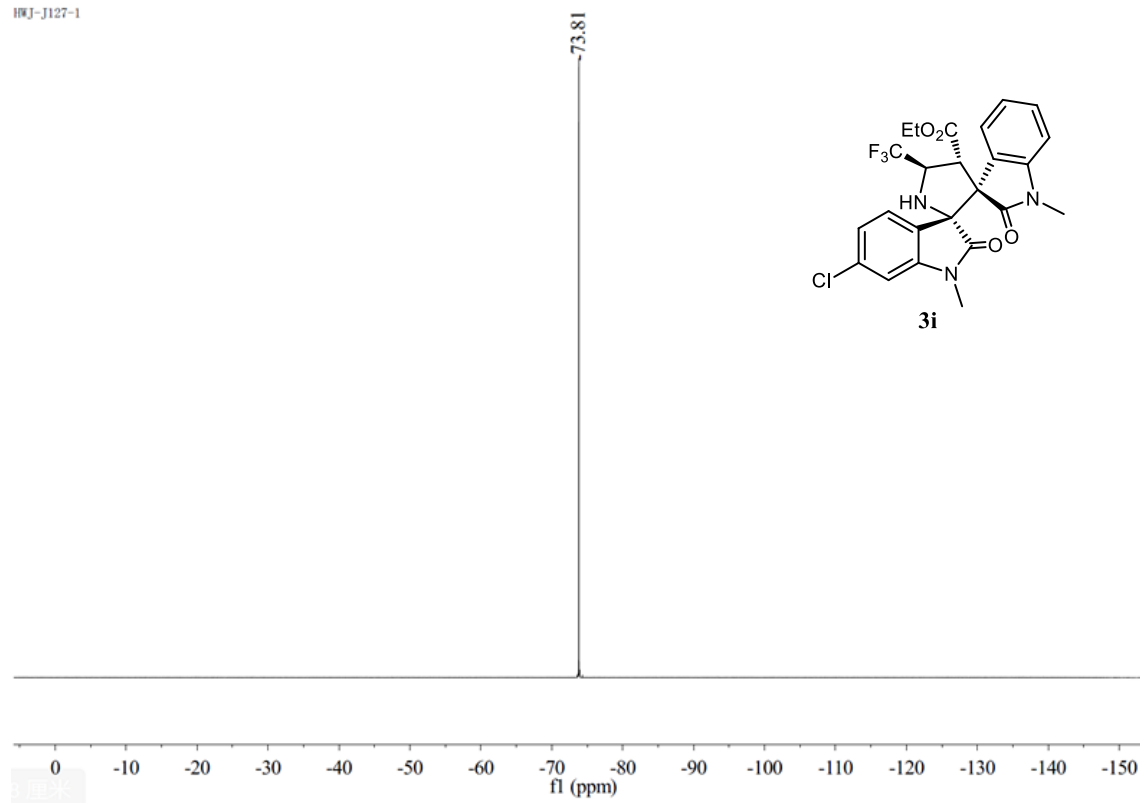
¹³CNMR of compound **3i** (in CDCl₃)

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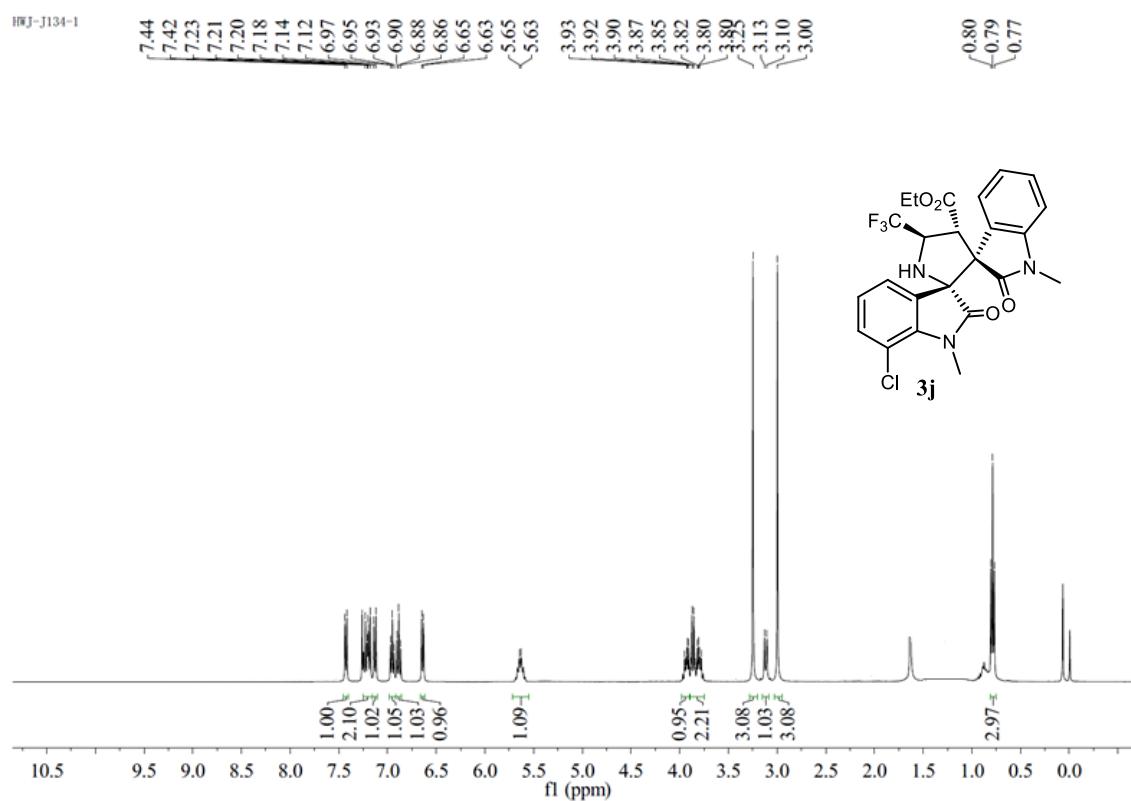


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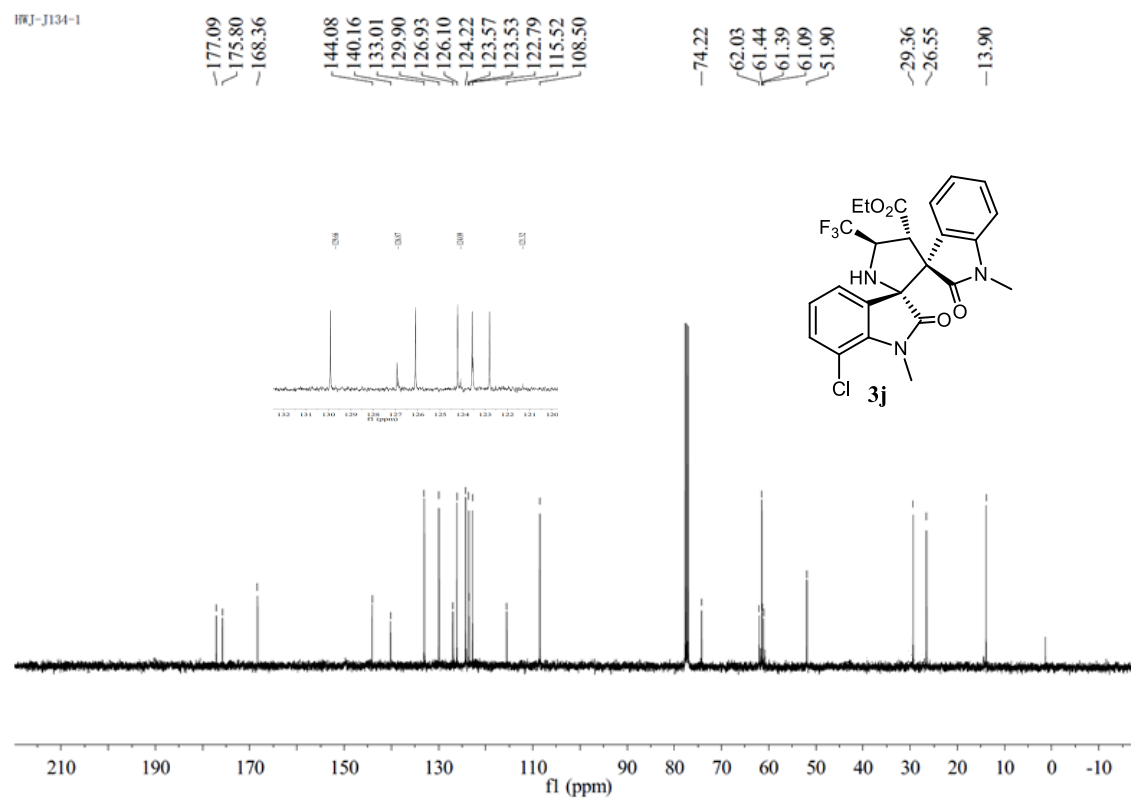
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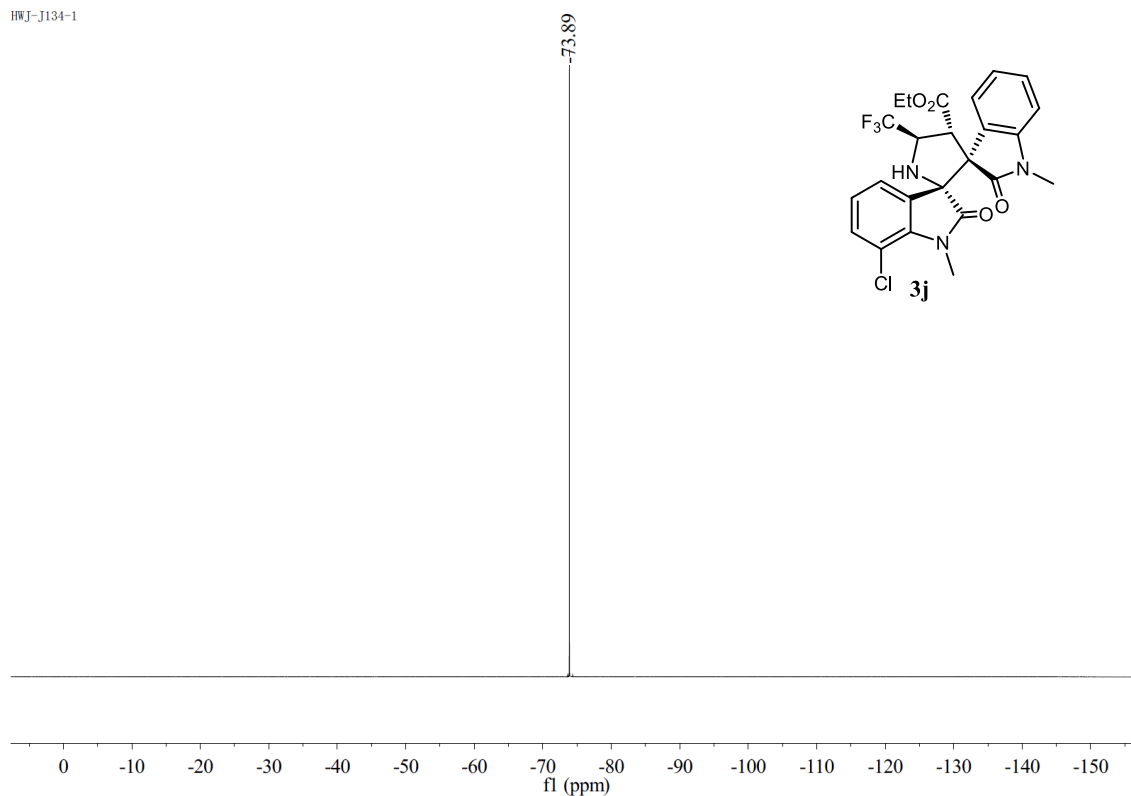


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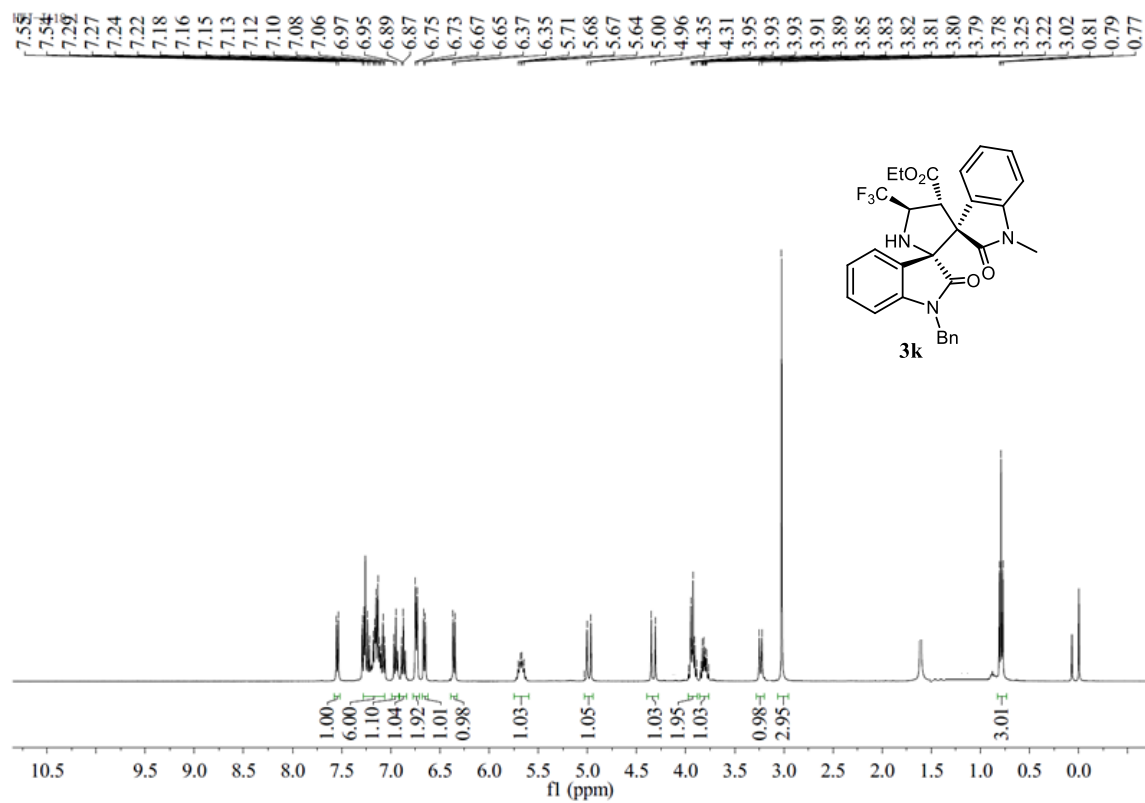


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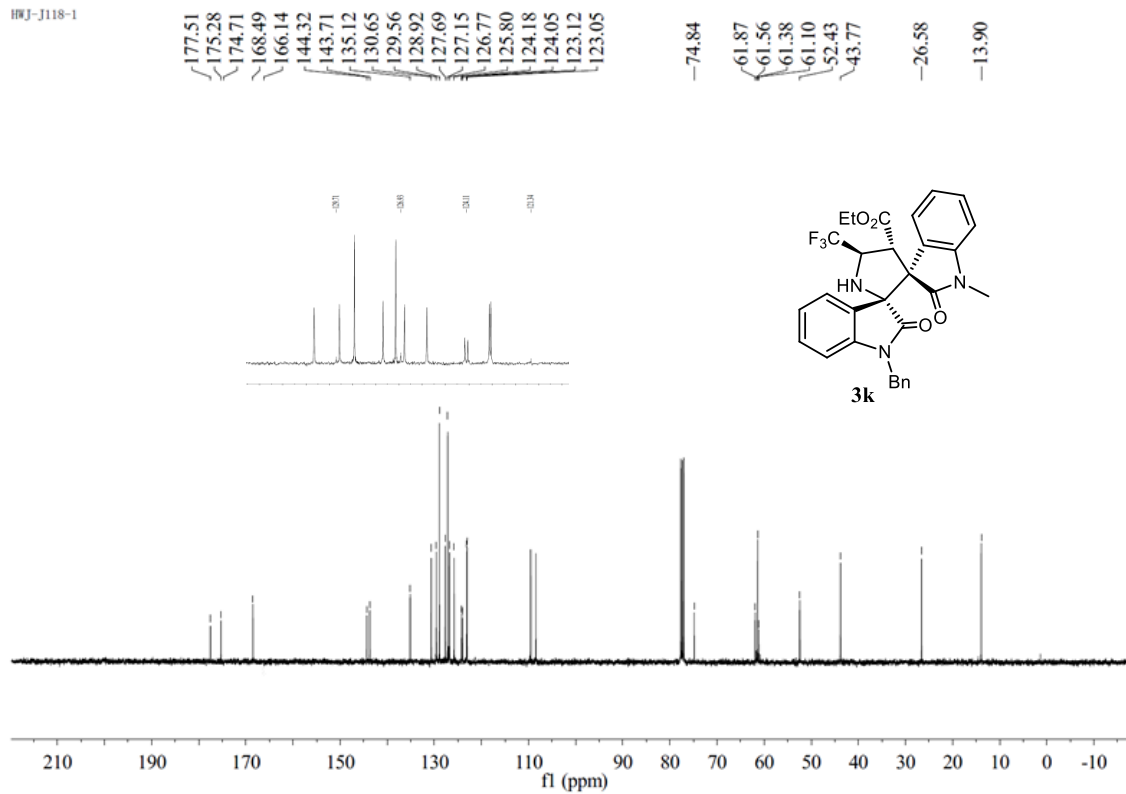


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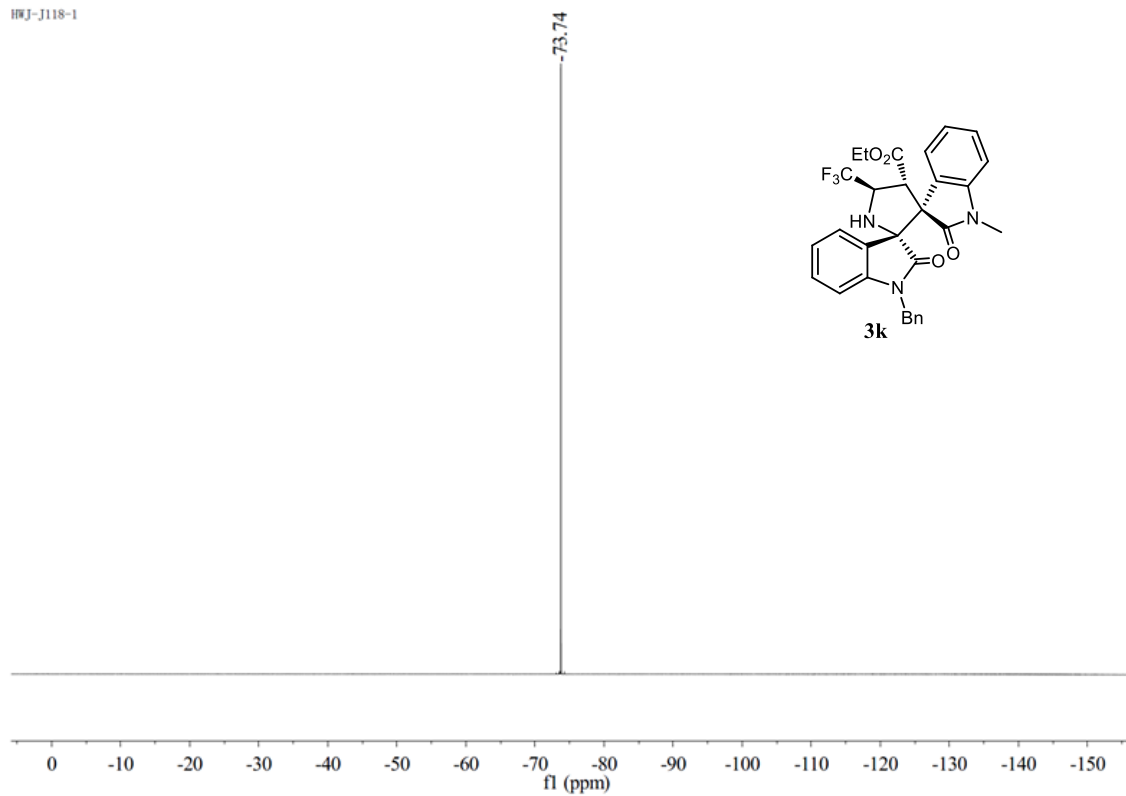
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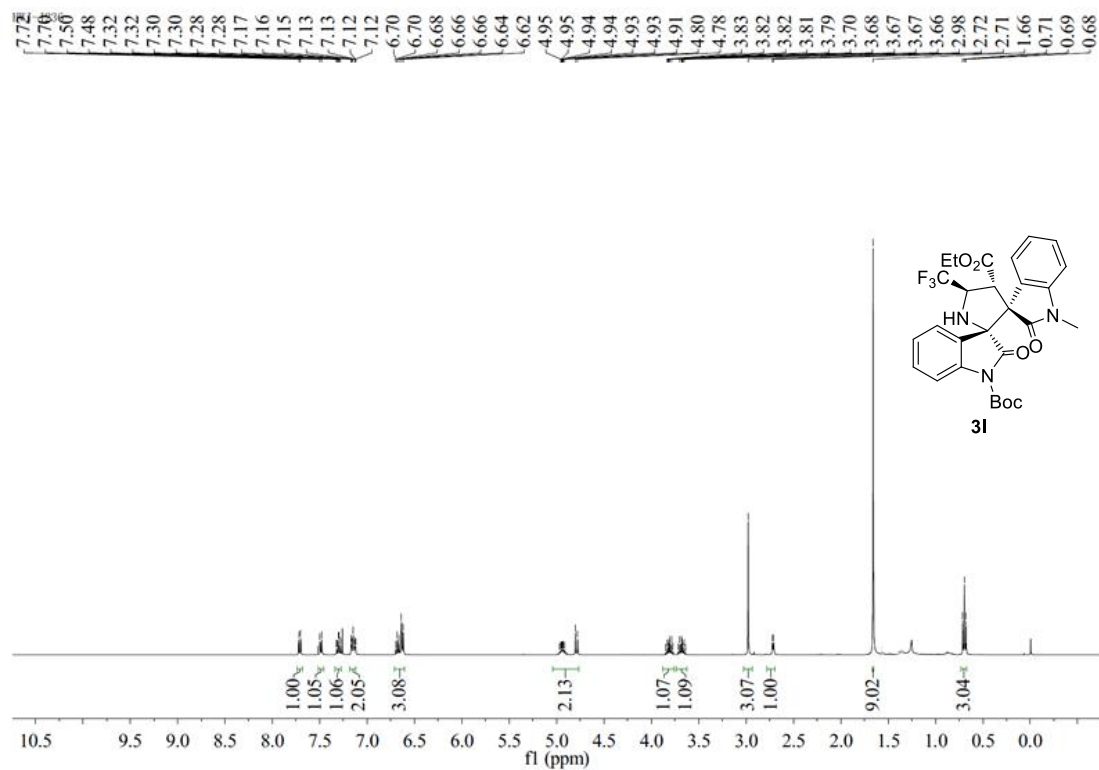


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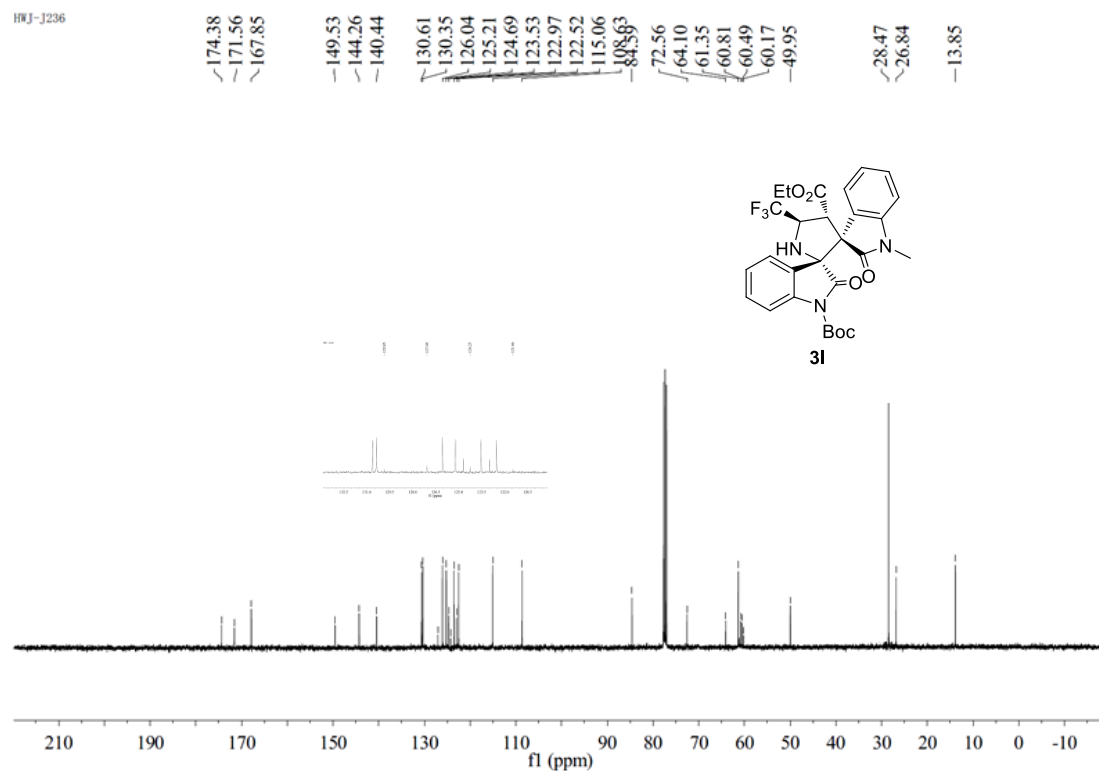
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¹H NMR of compound **3I** (in CDCl₃)

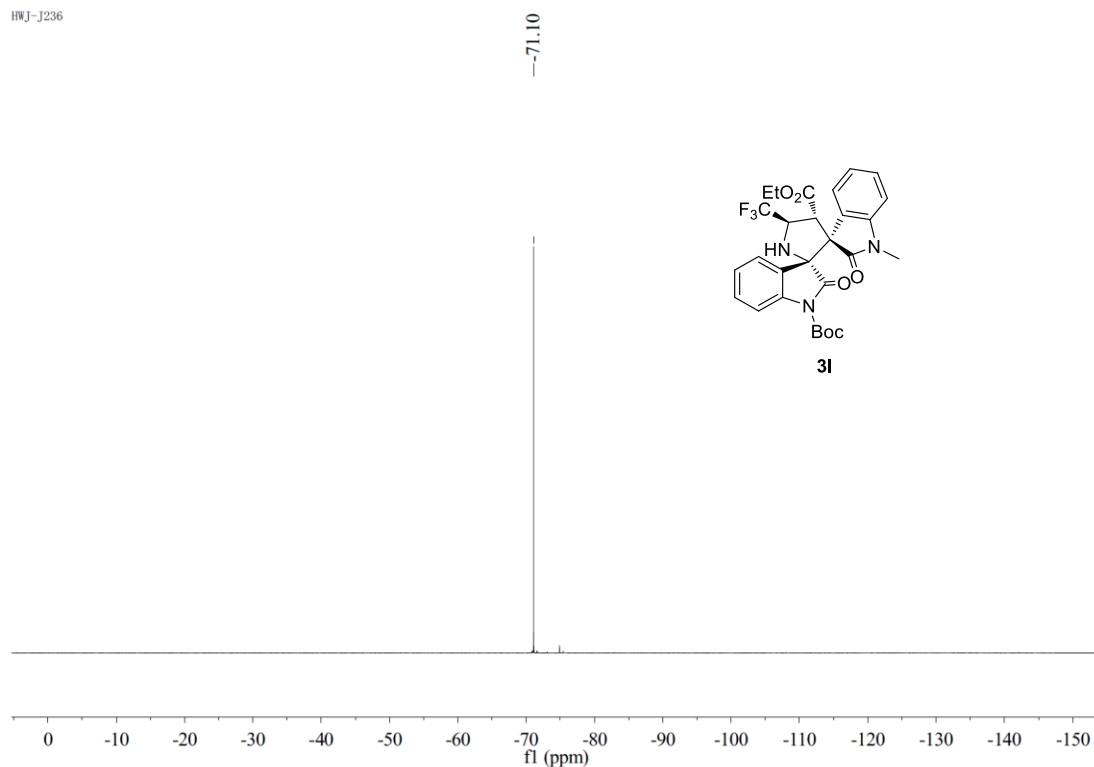


¹³C NMR of compound **3I** (in CDCl₃)



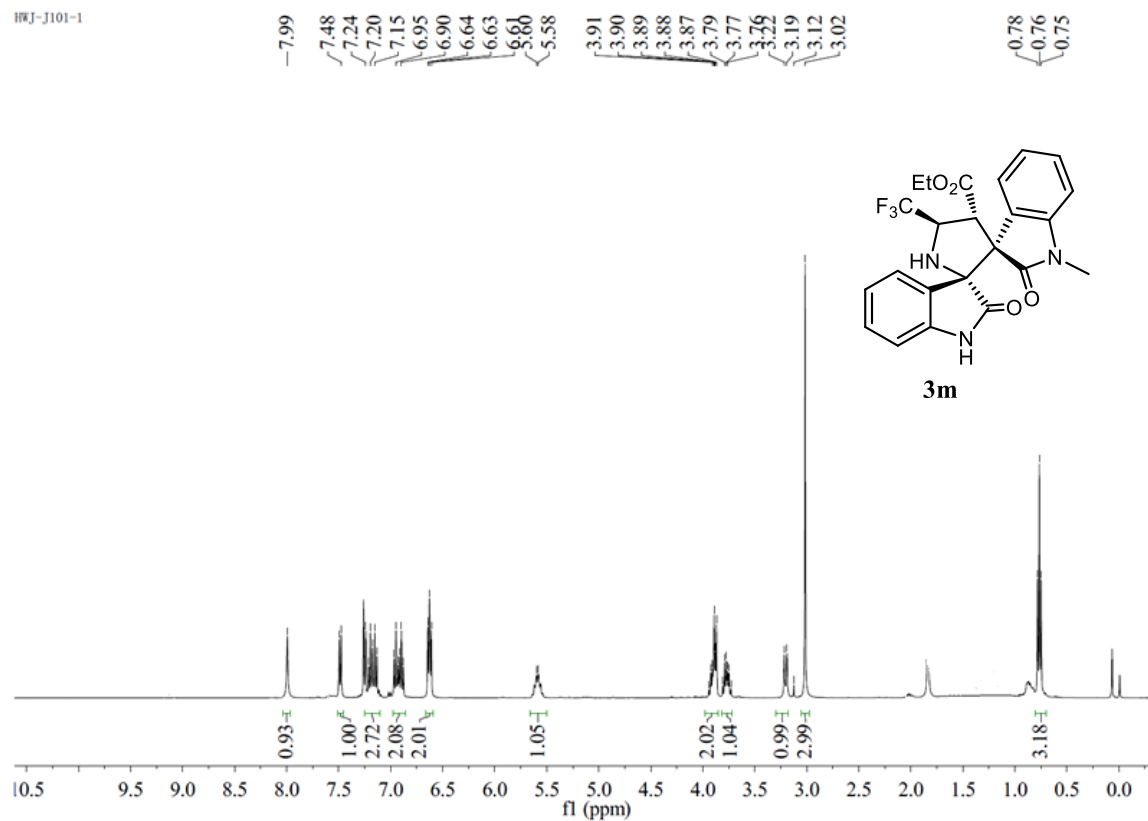
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HWJ-J236

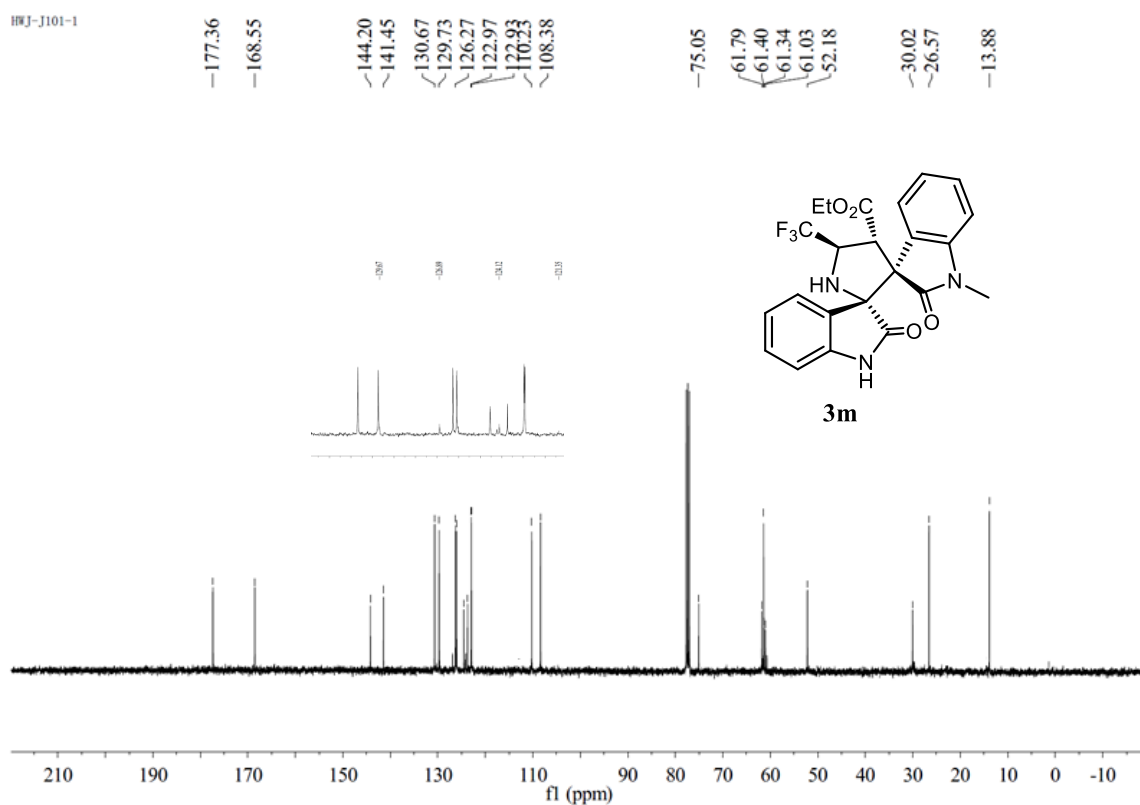


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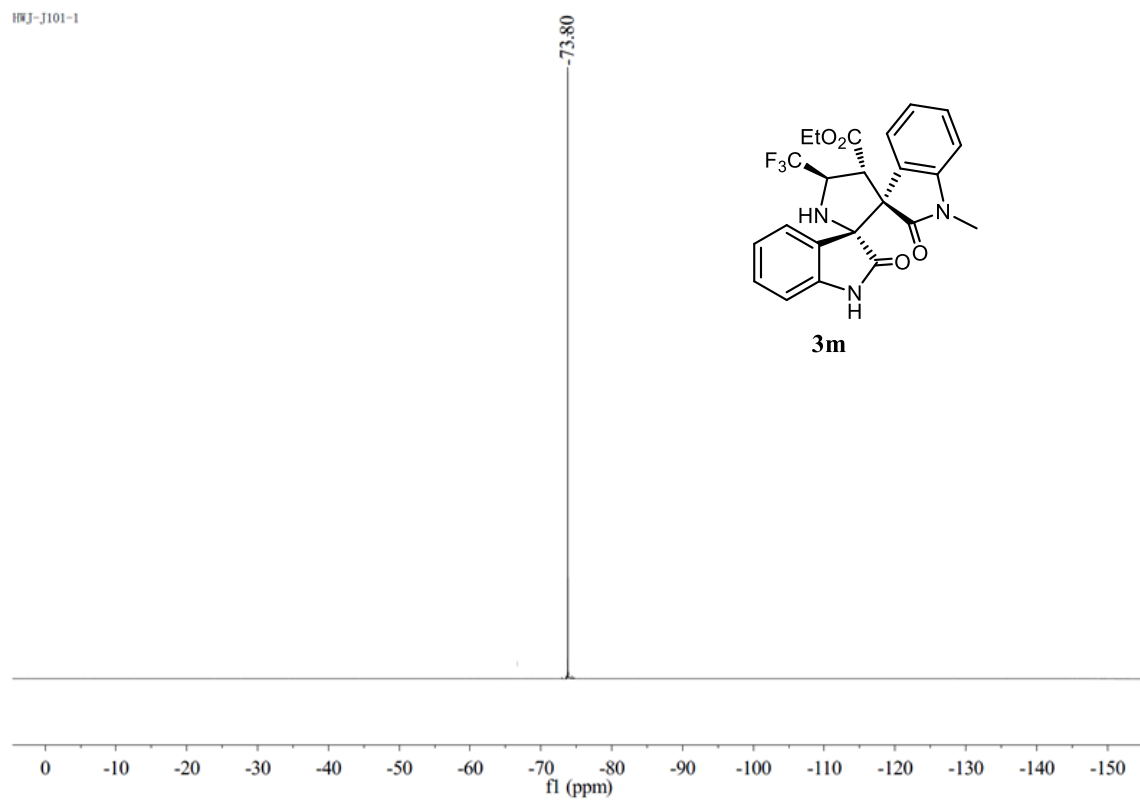
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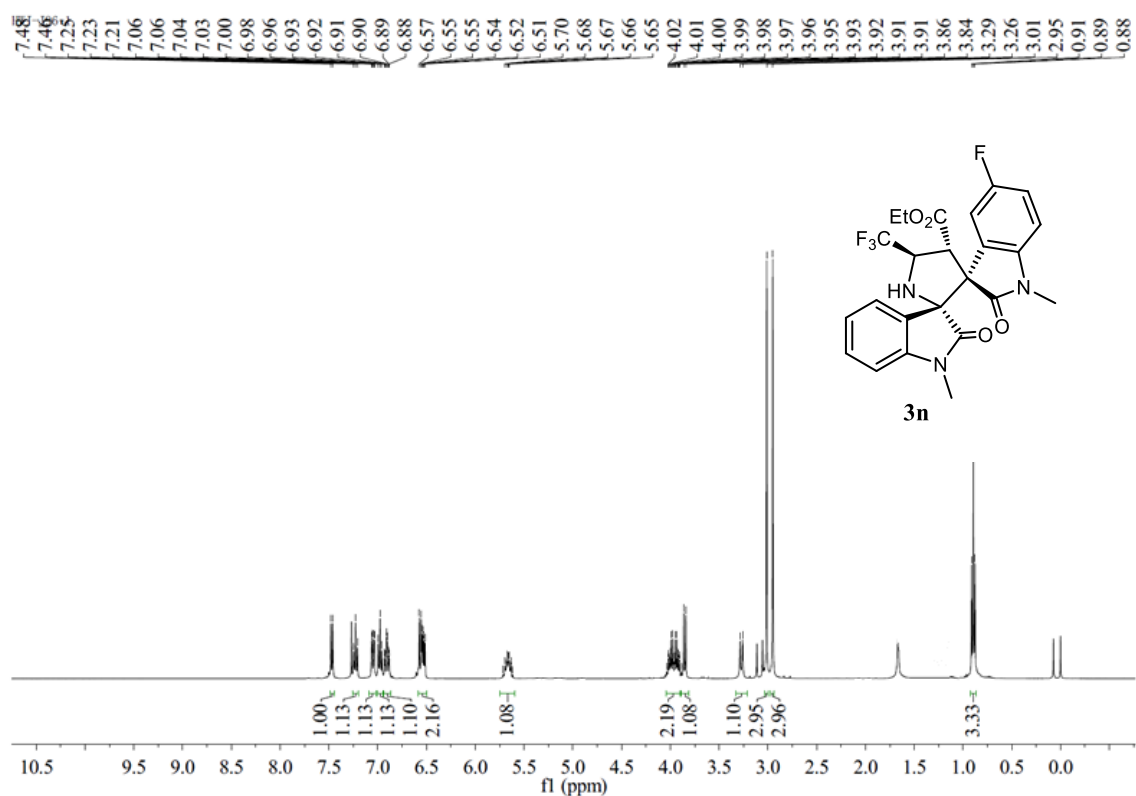
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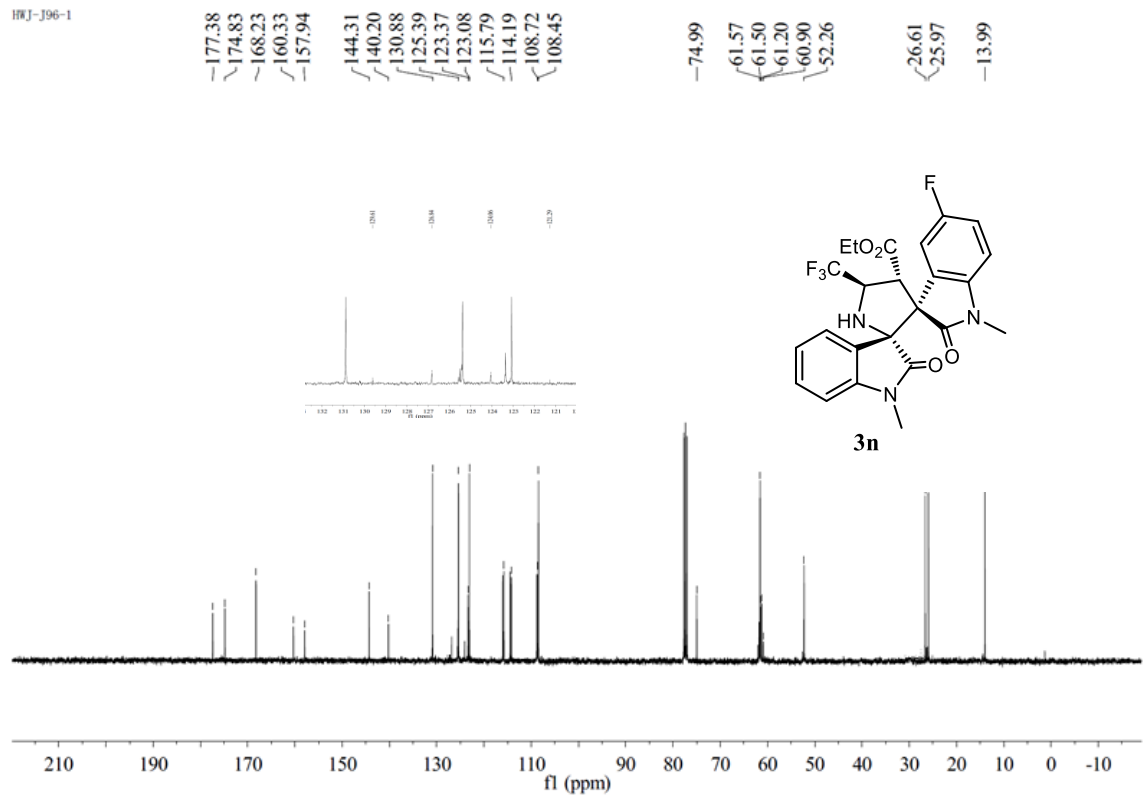


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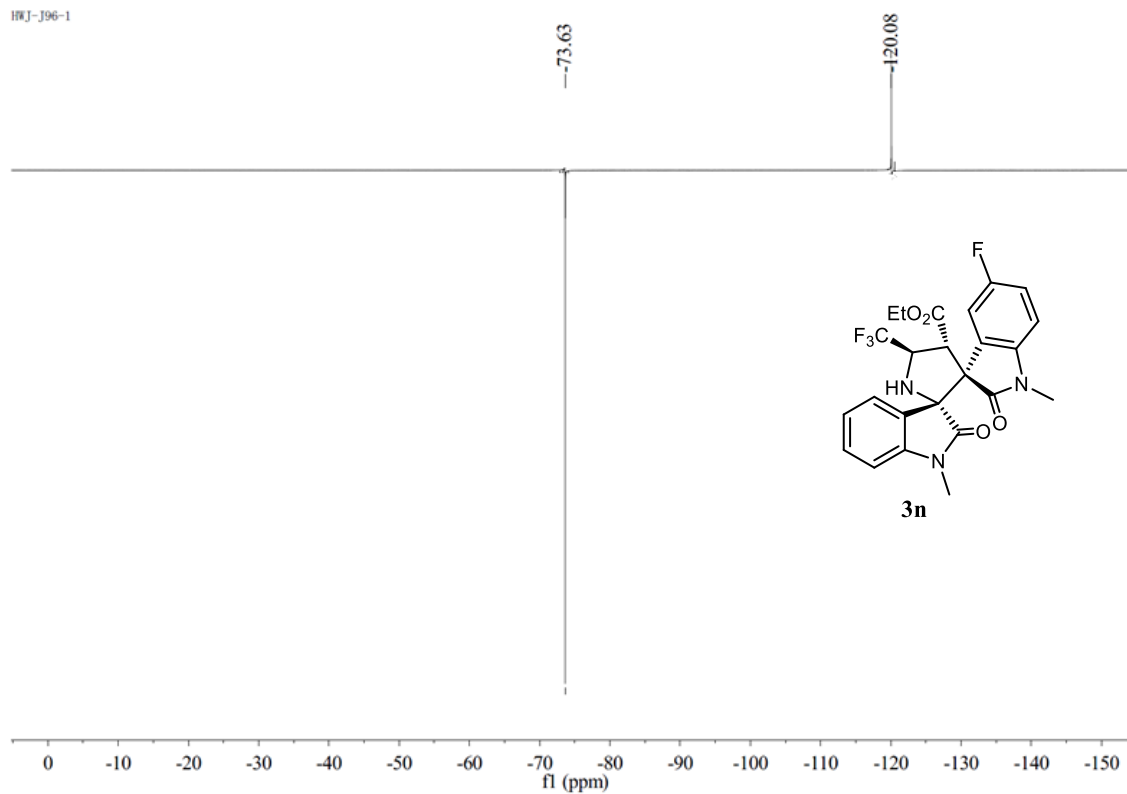
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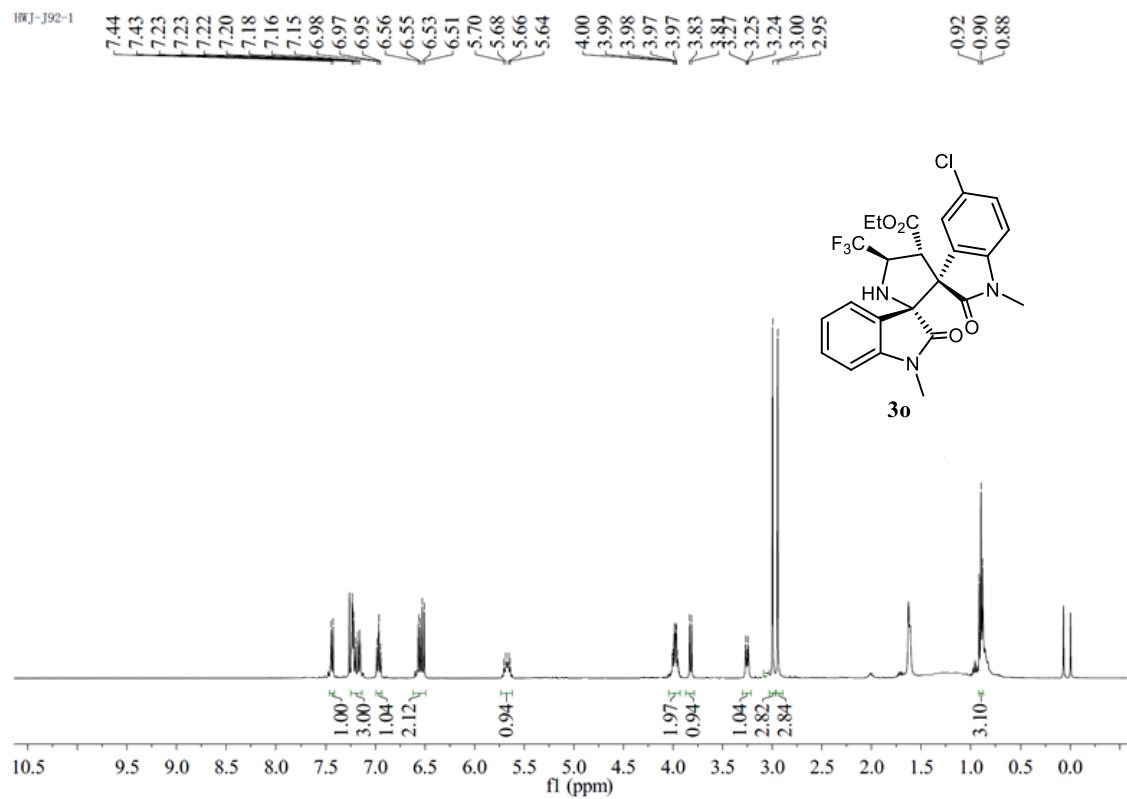
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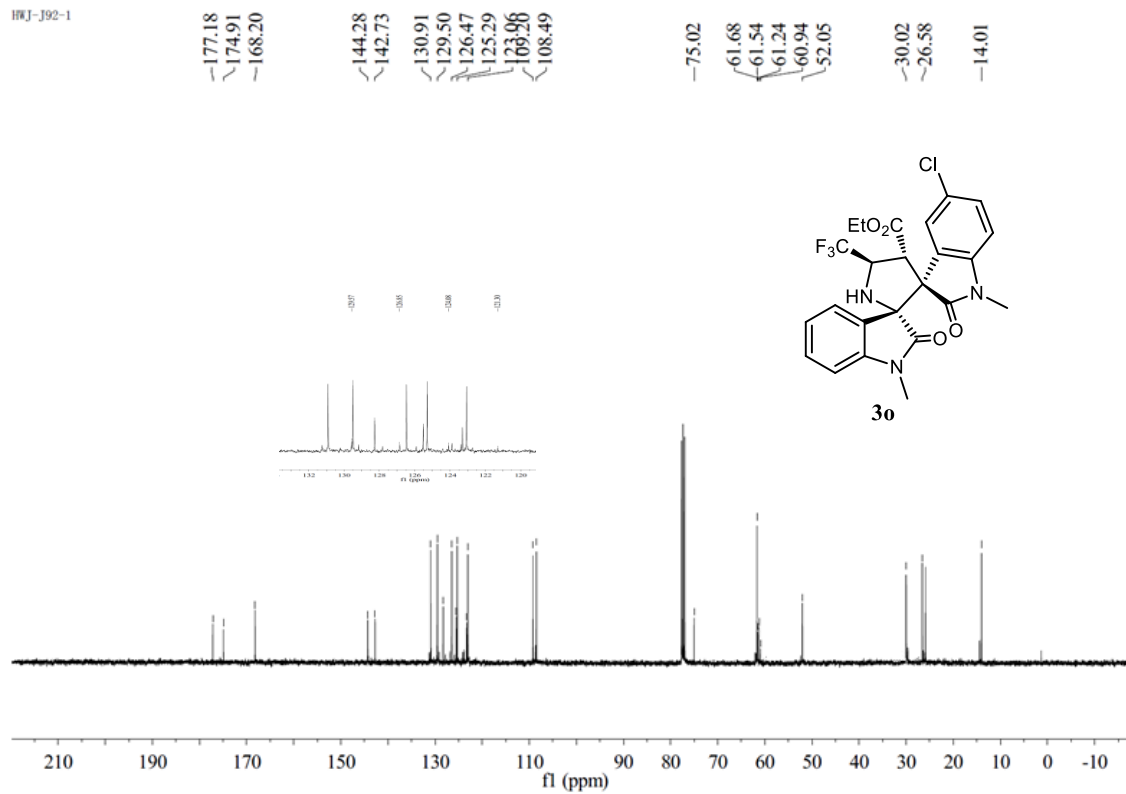
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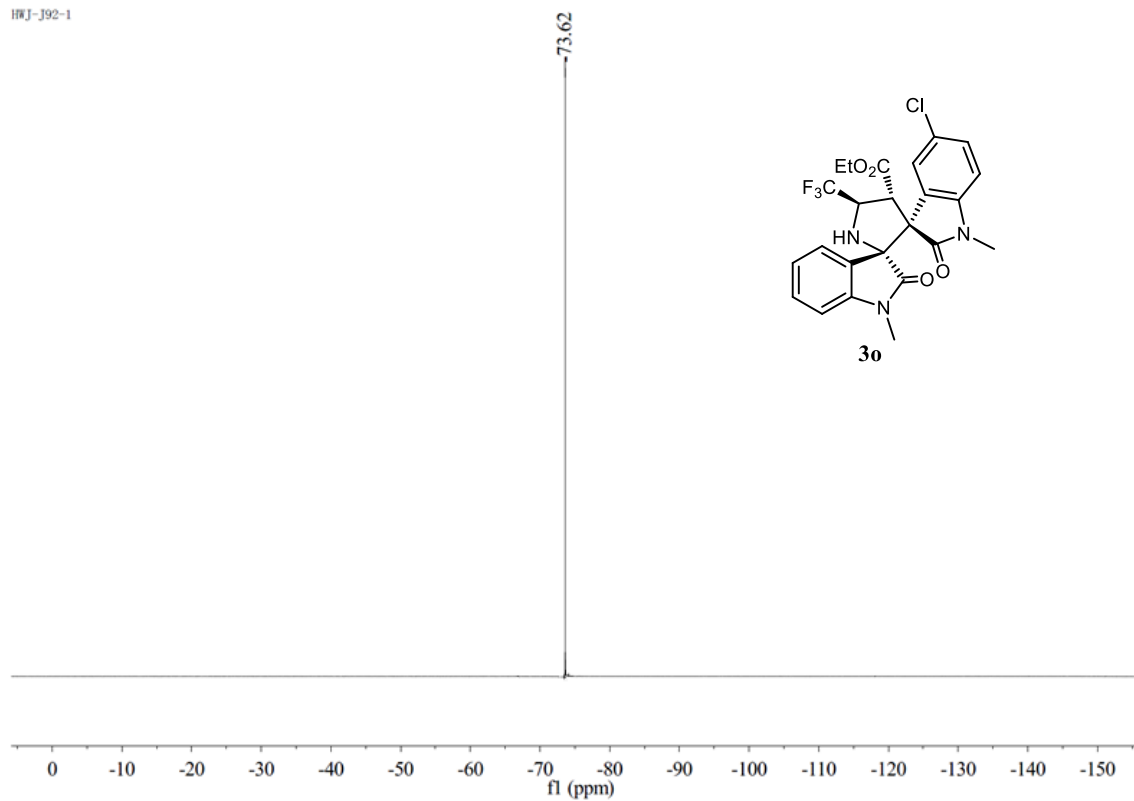
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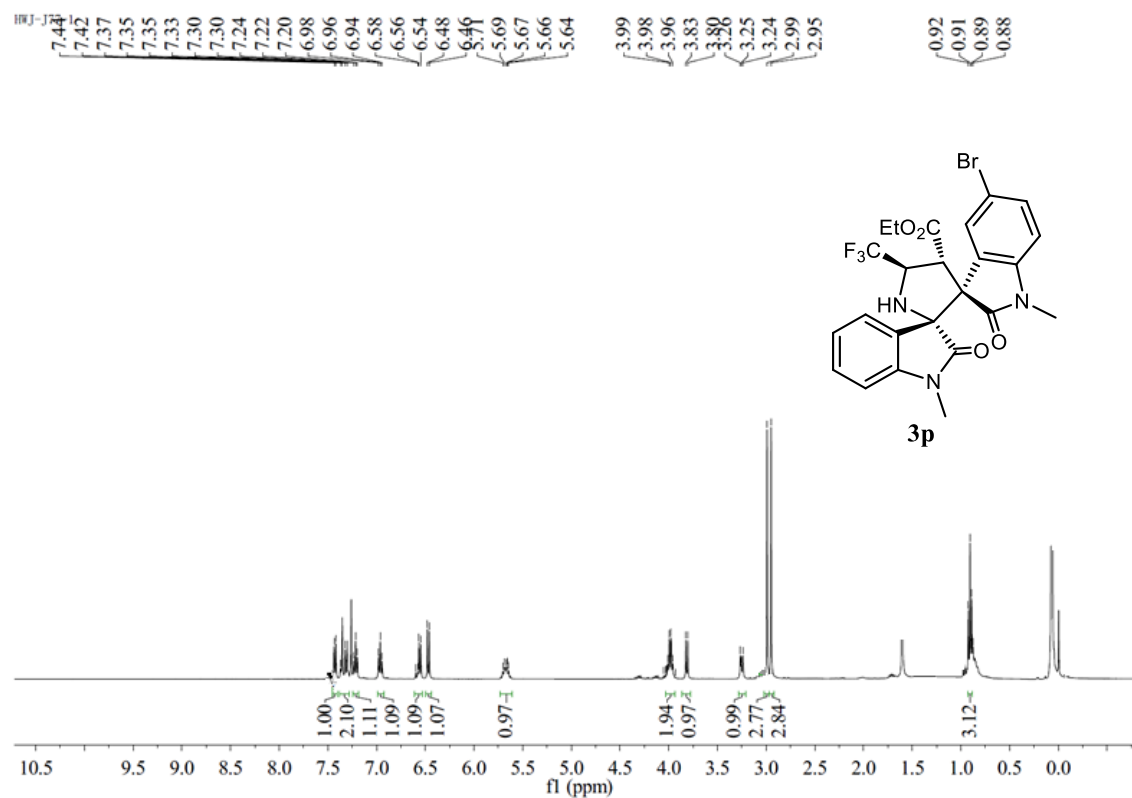


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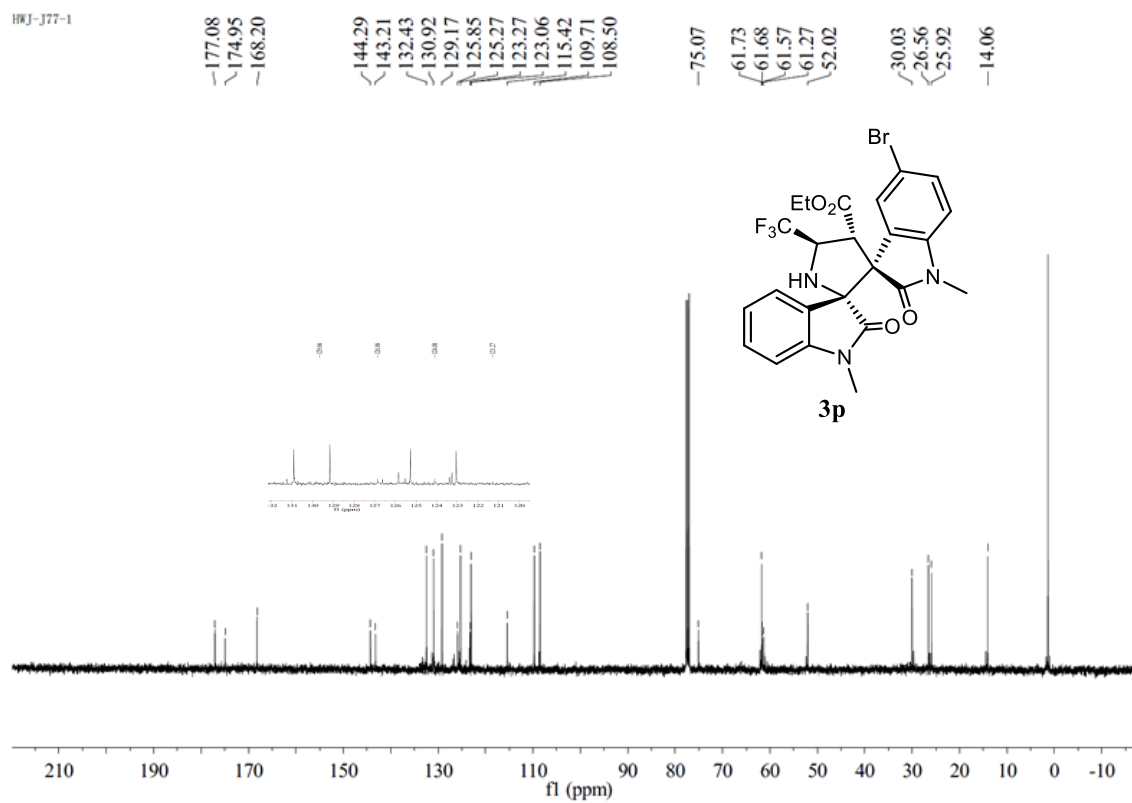
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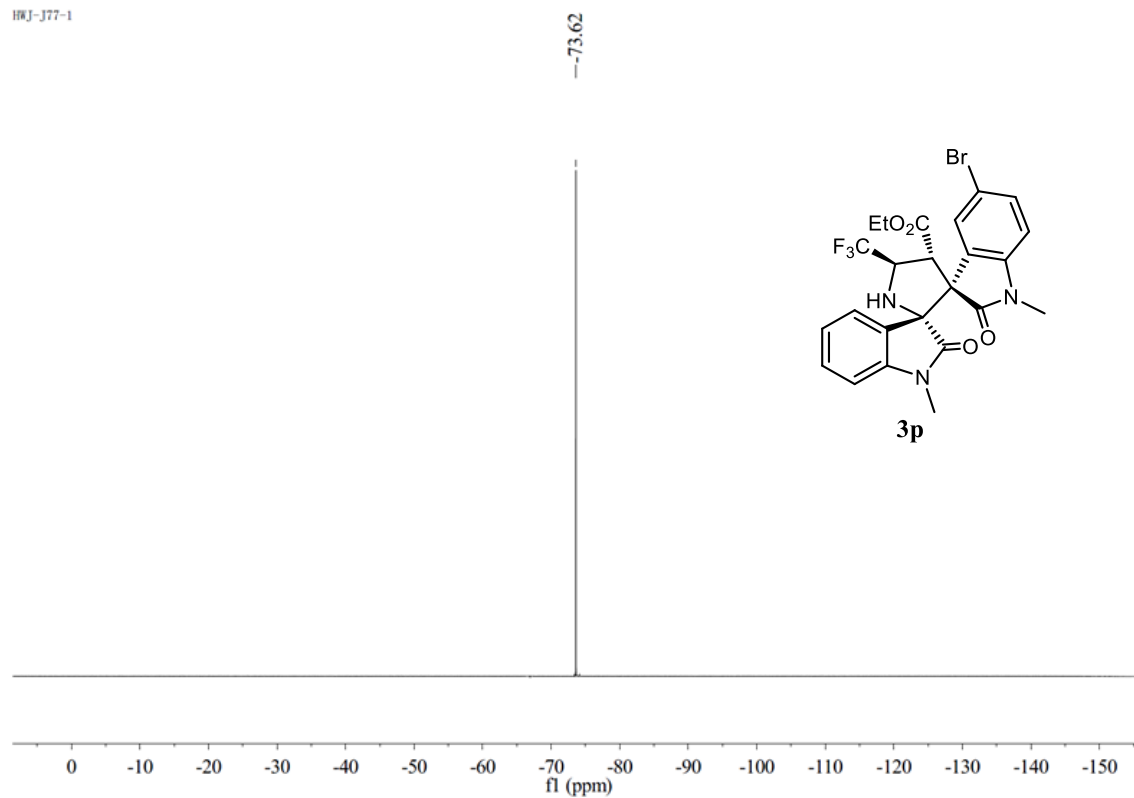


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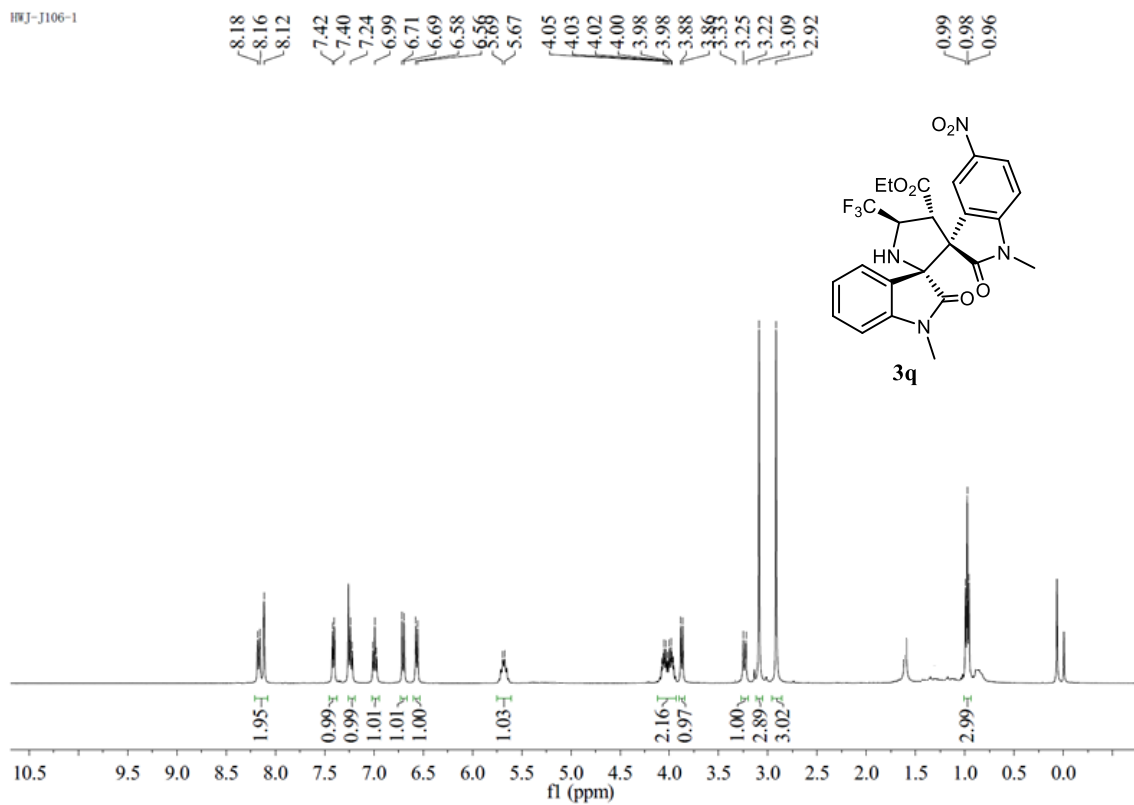
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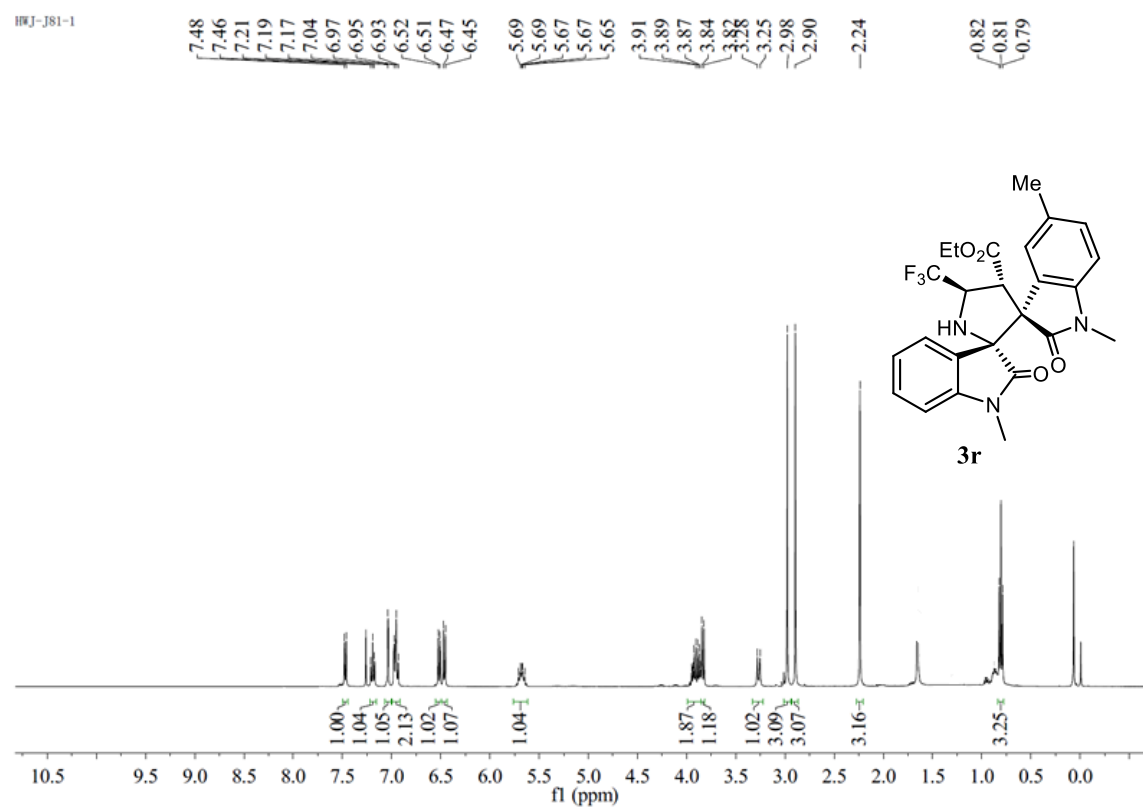


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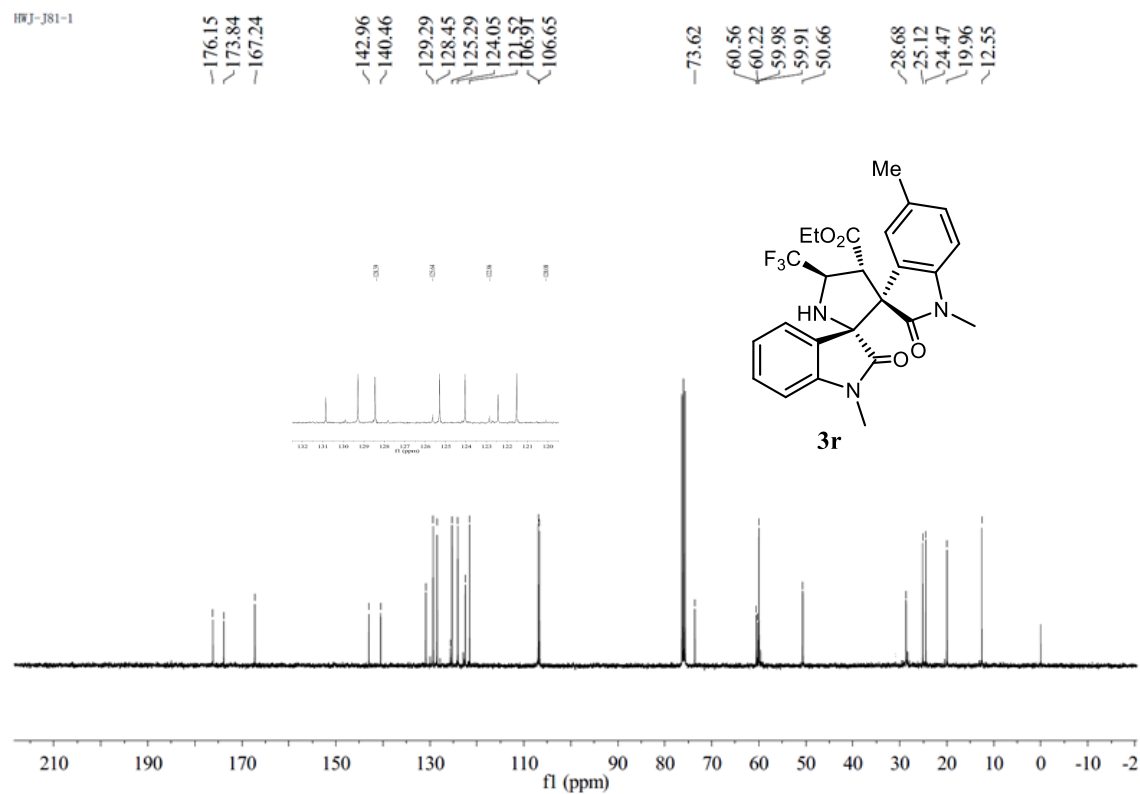
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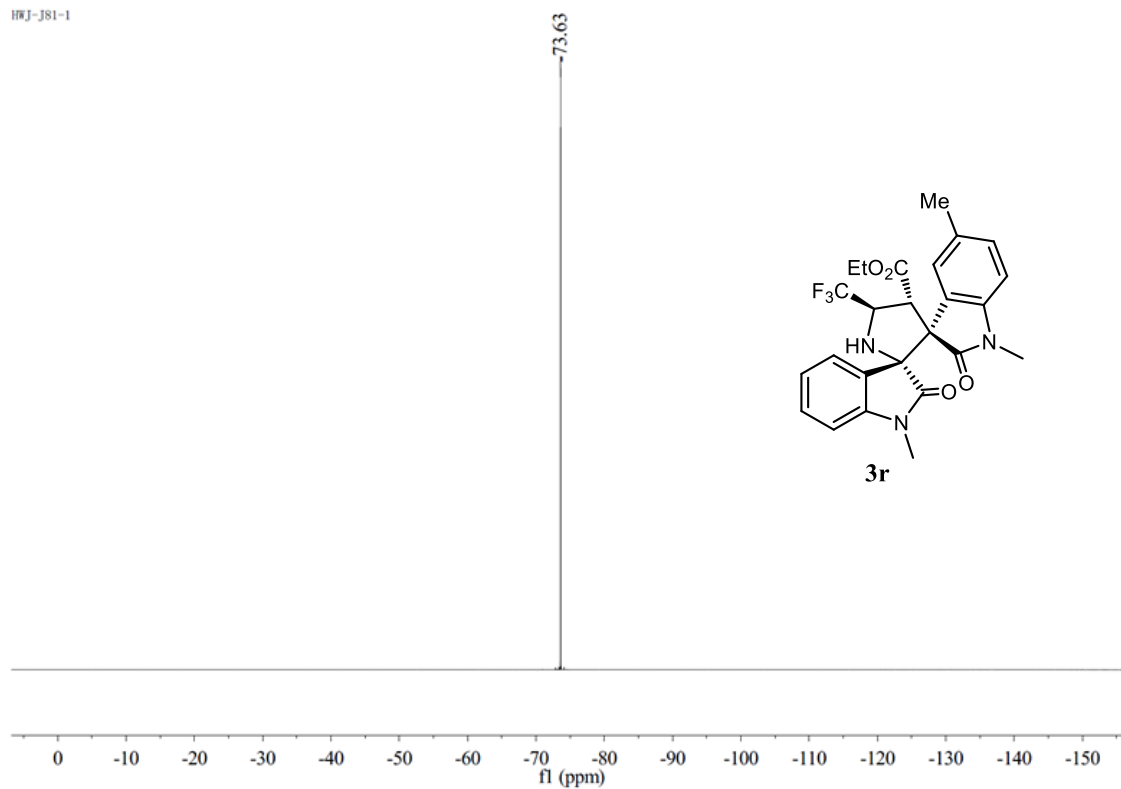


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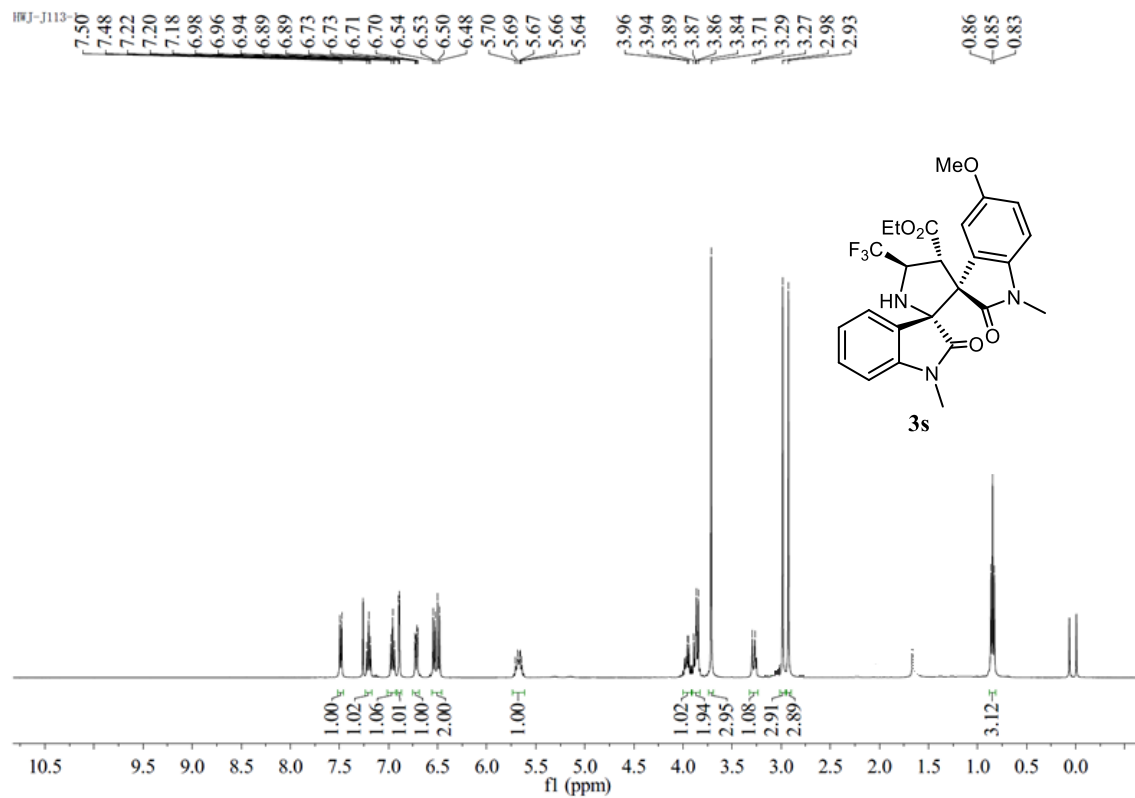
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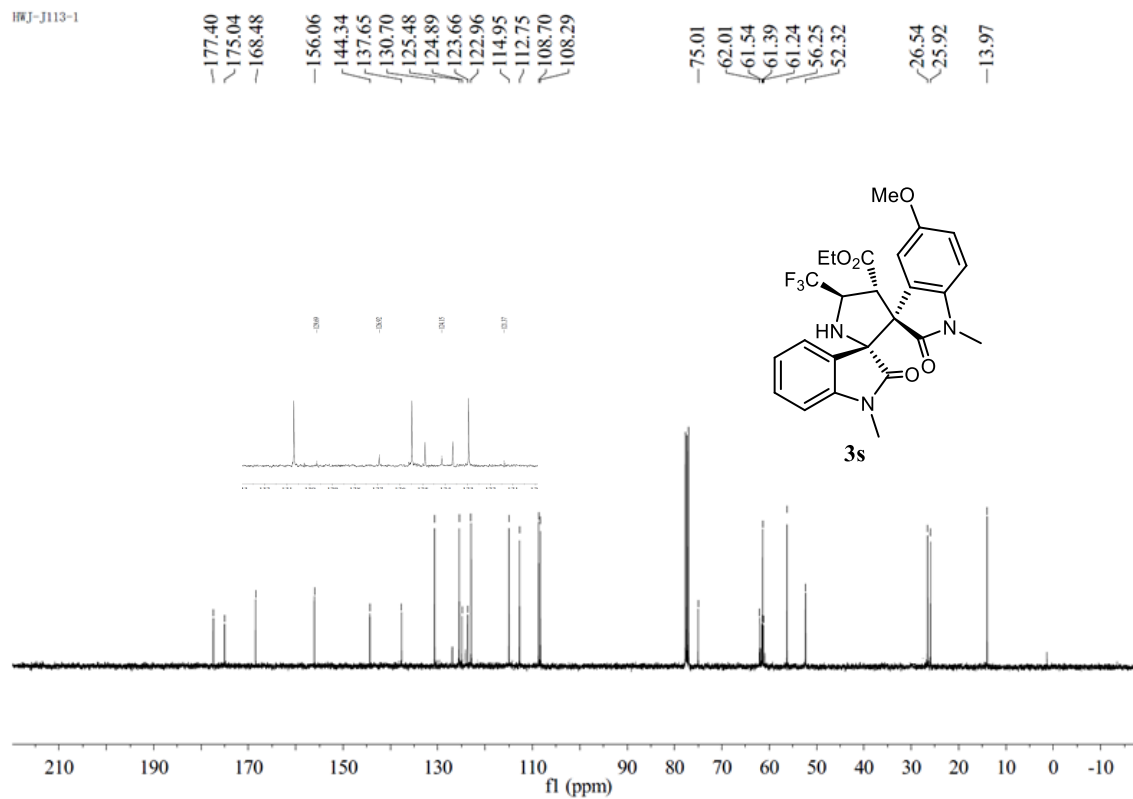
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HWJ-J113



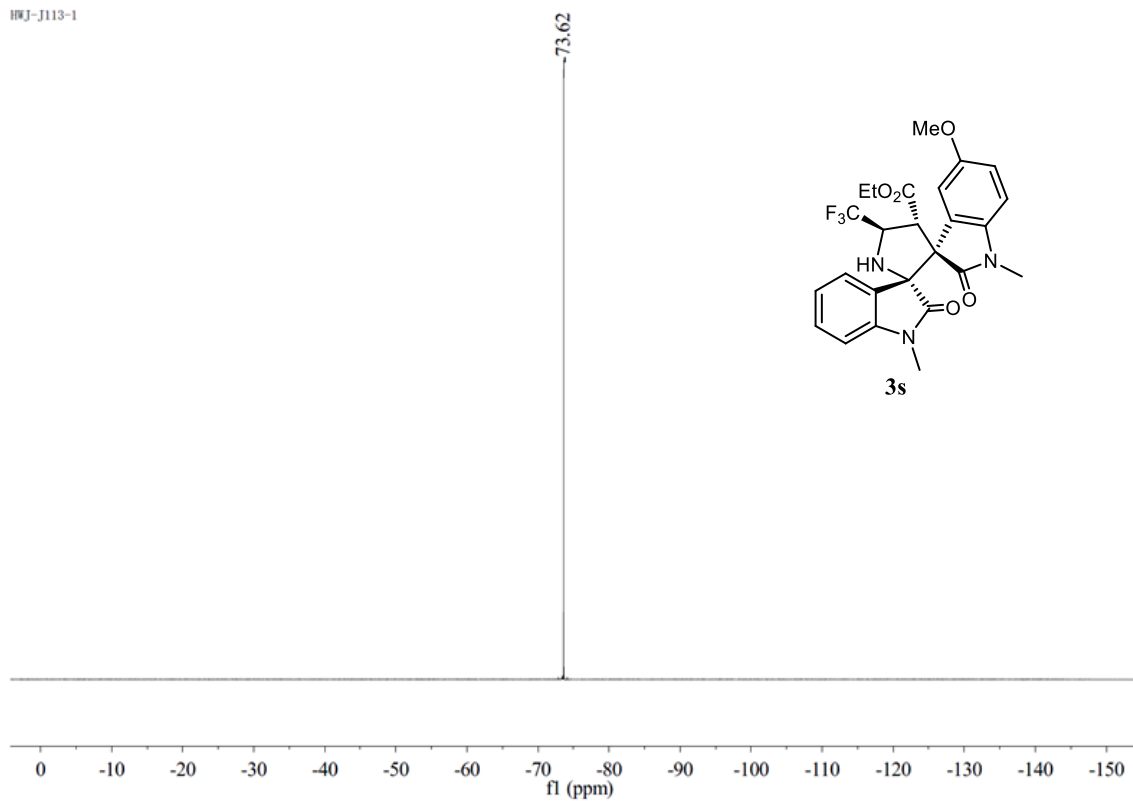
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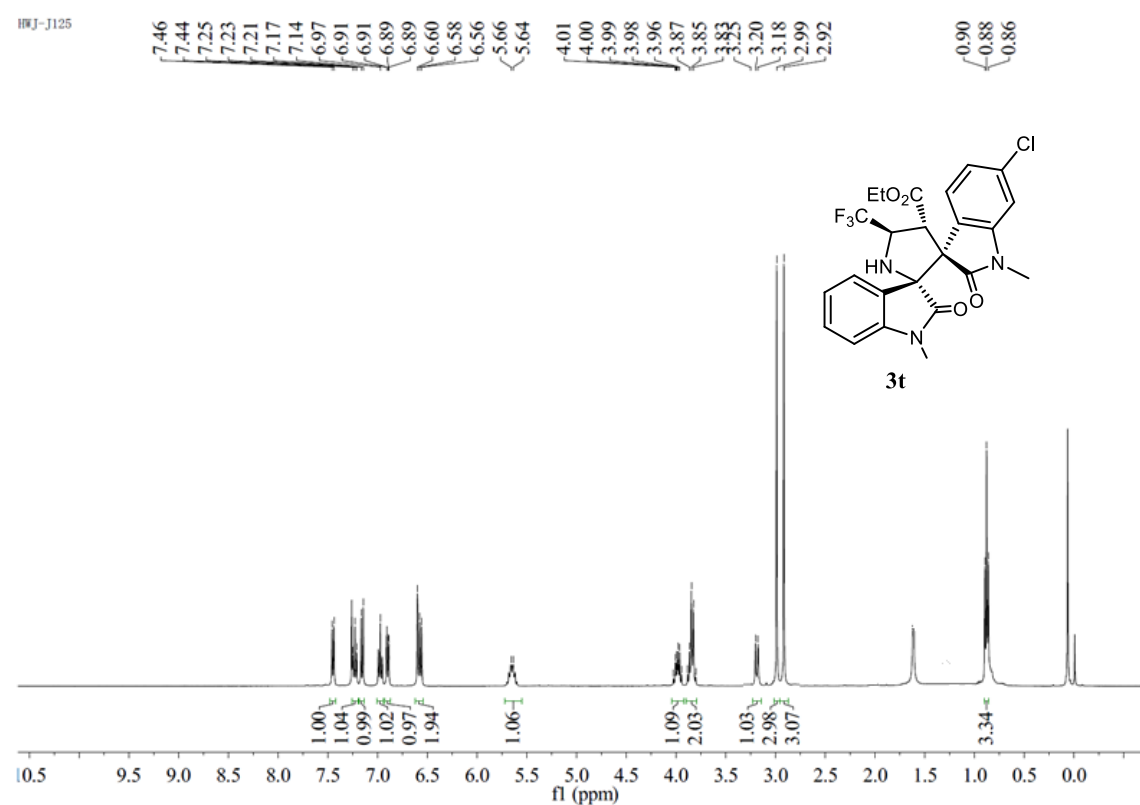


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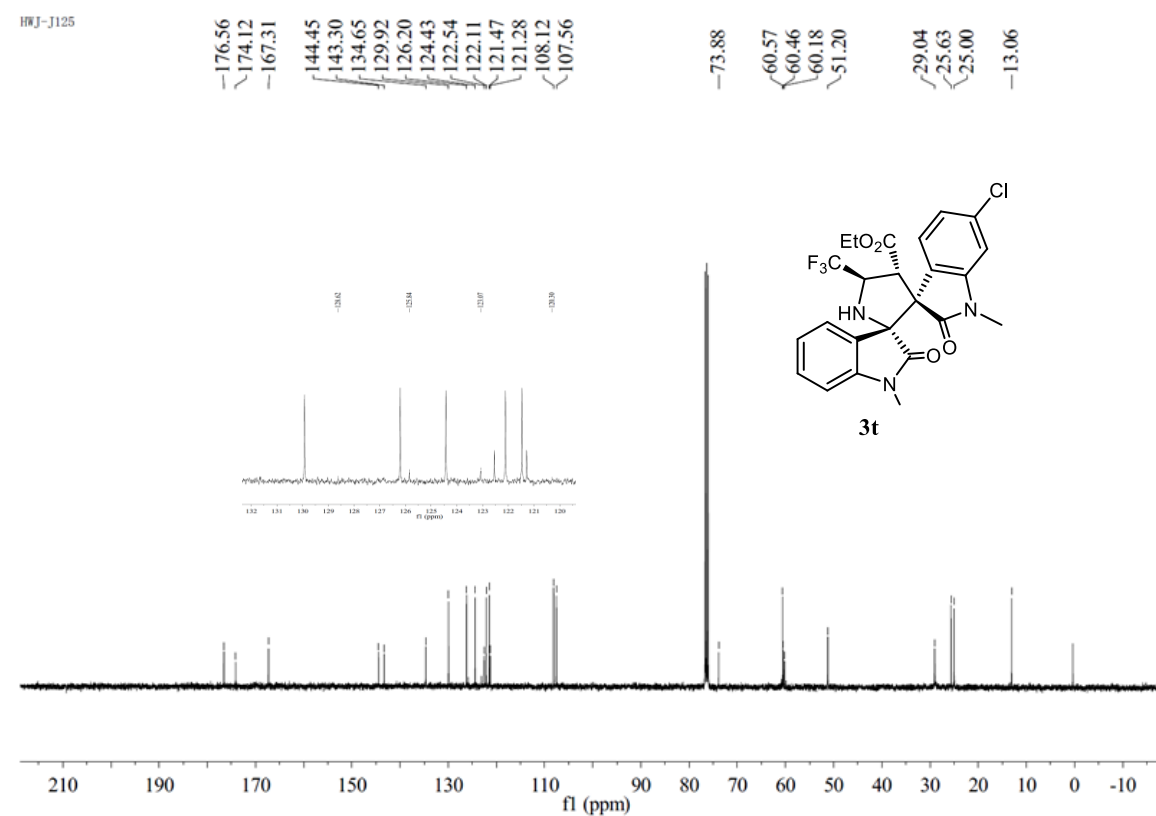
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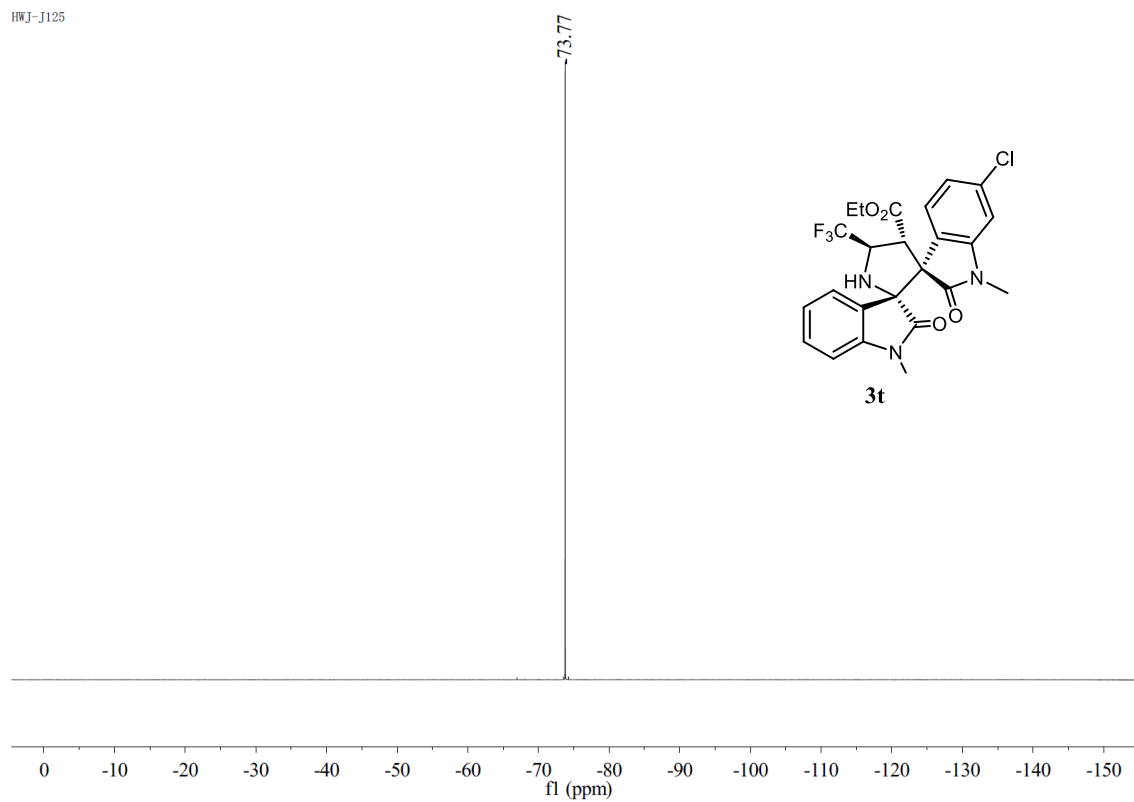


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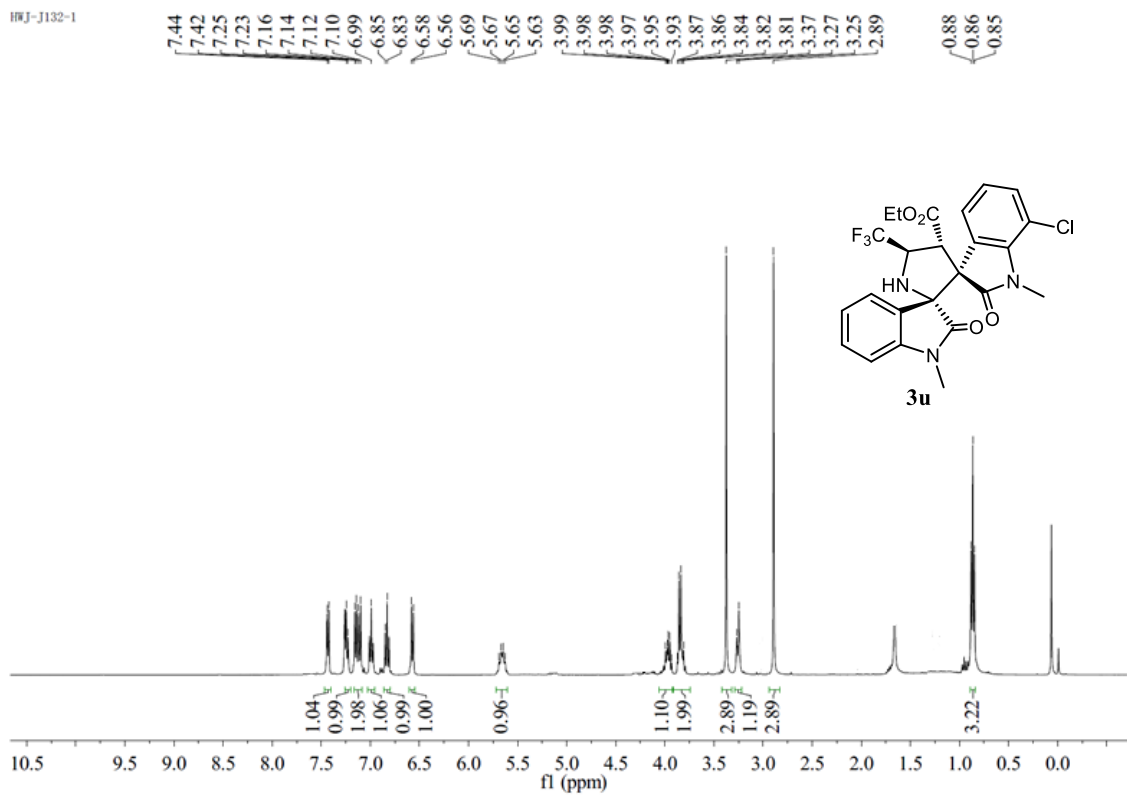
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HWJ-J125

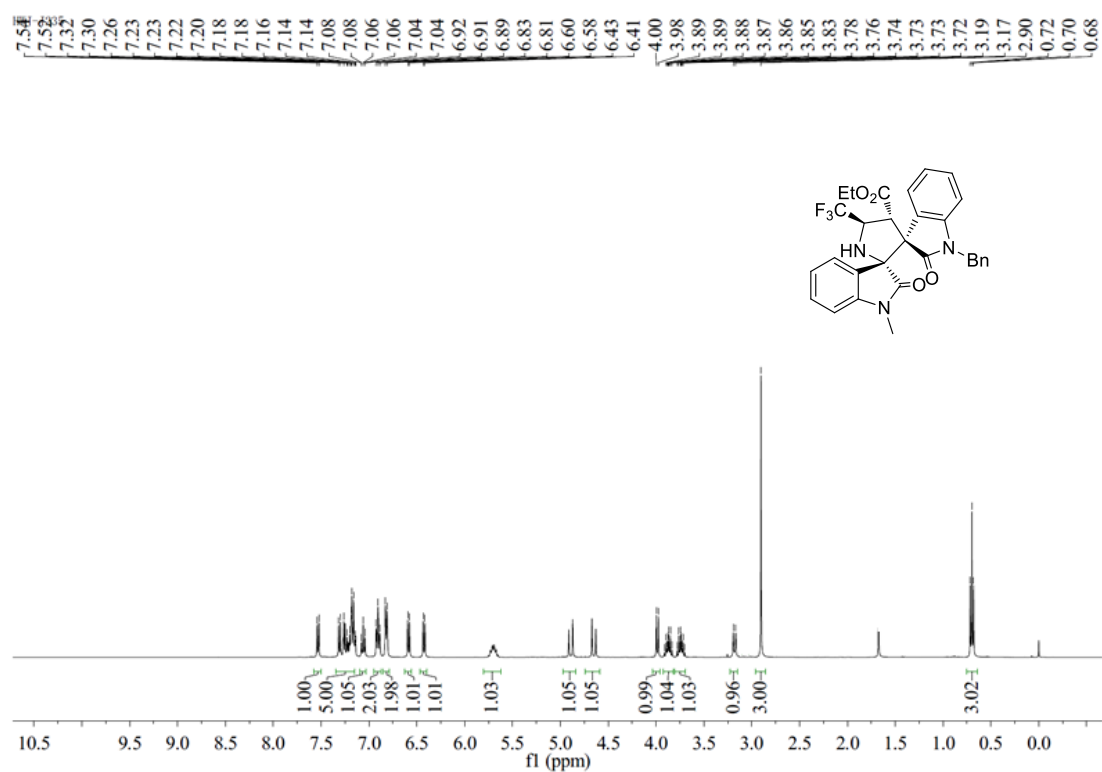


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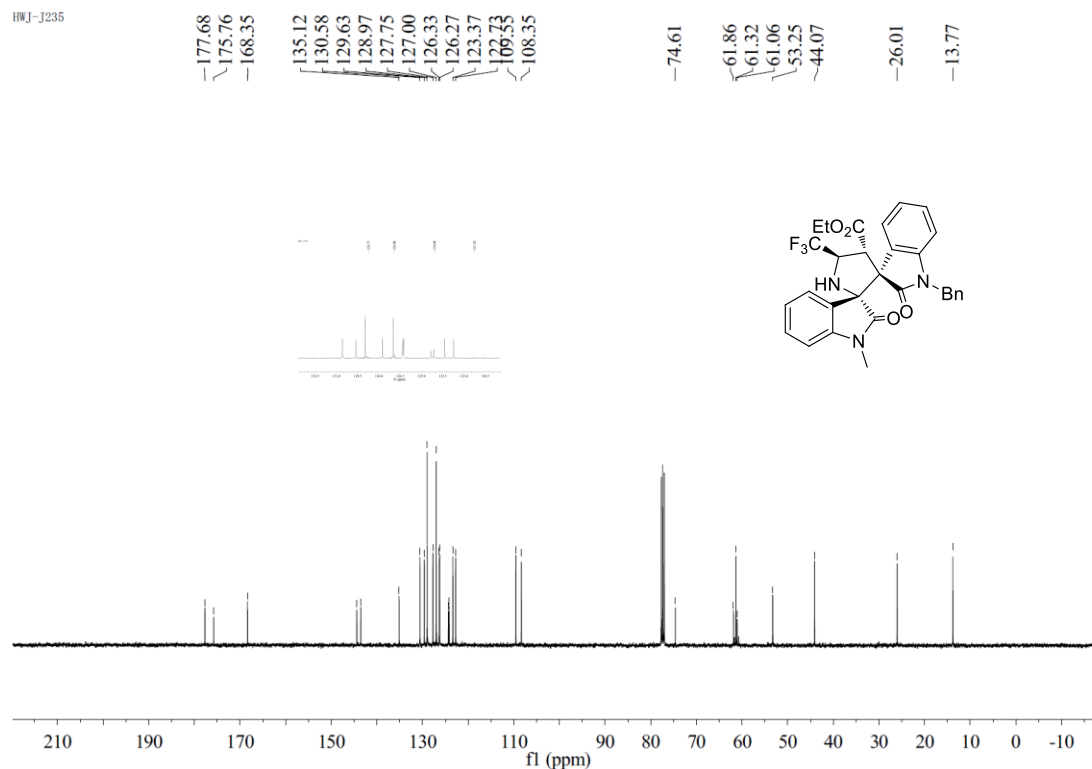
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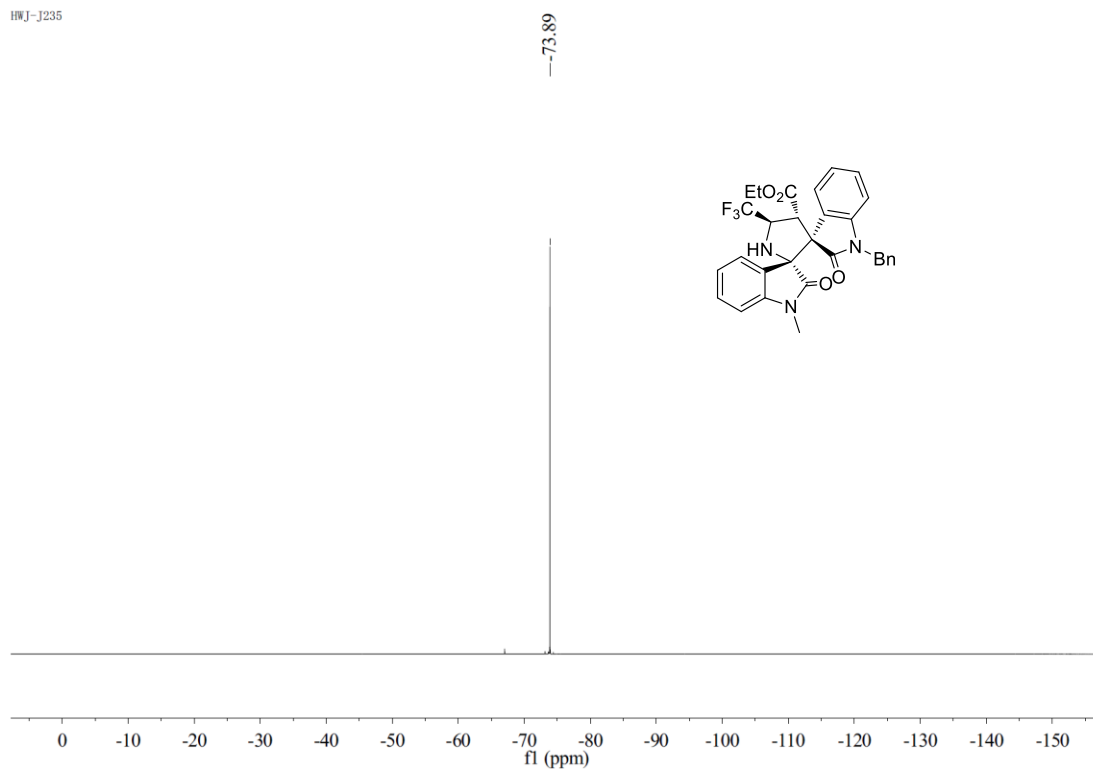


¹³CNMR of compound **3v** (in CDCl₃)

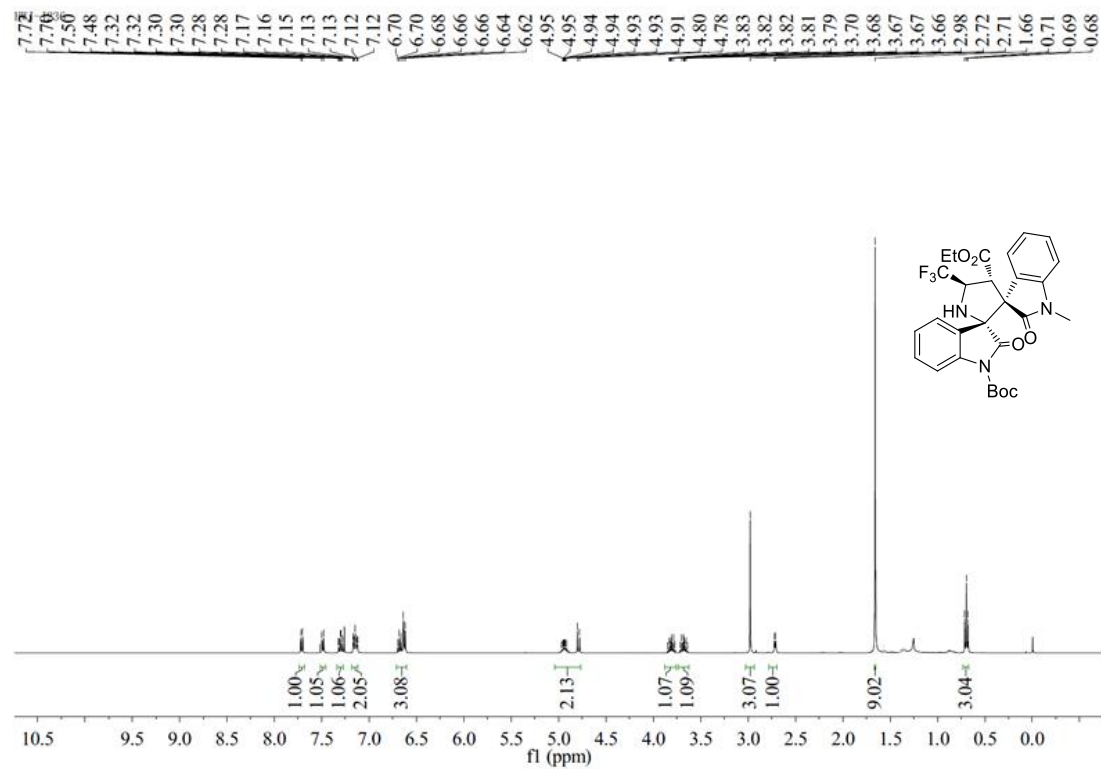


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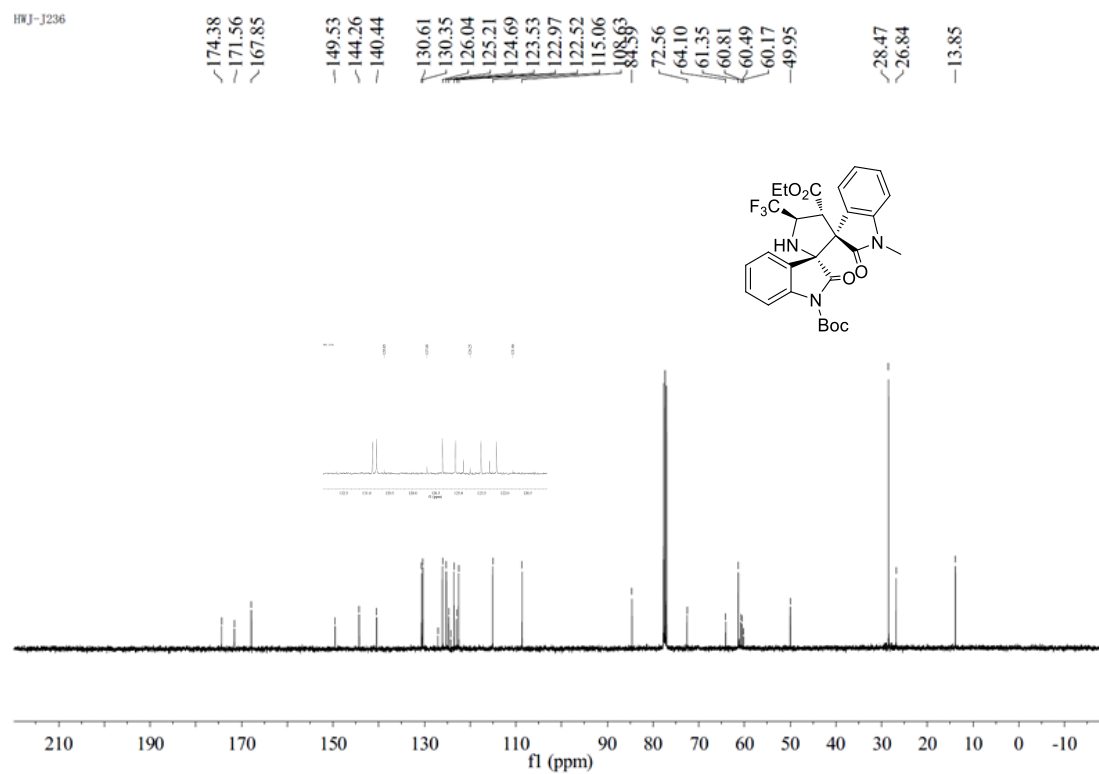
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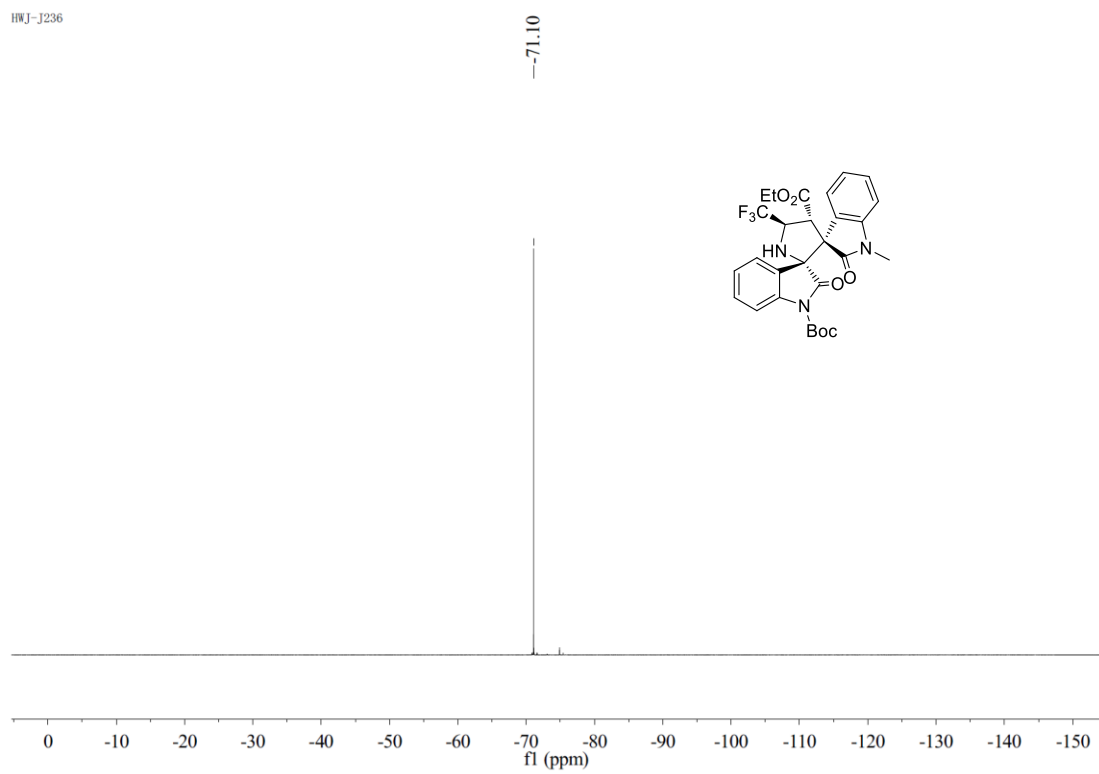
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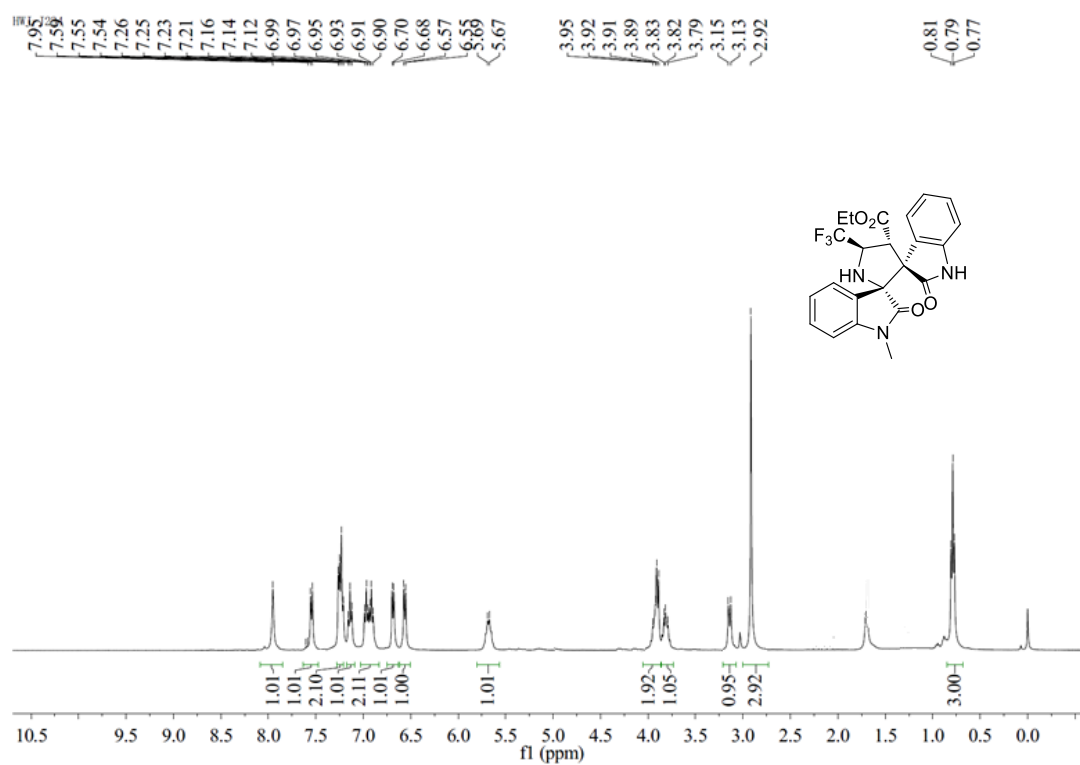
¹³CNMR of compound **3w** (in CDCl₃)



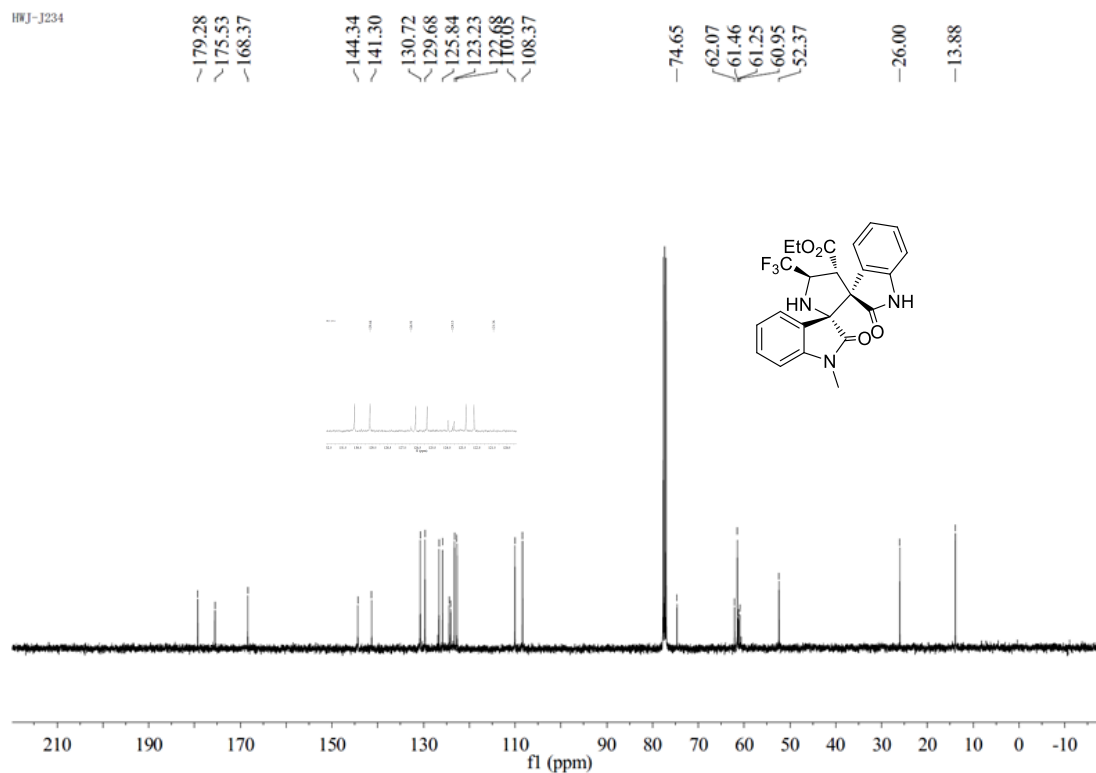
¹⁹FNMR of compound **3w** (in CDCl₃)



^1H NMR of compound **3x** (in CDCl_3)

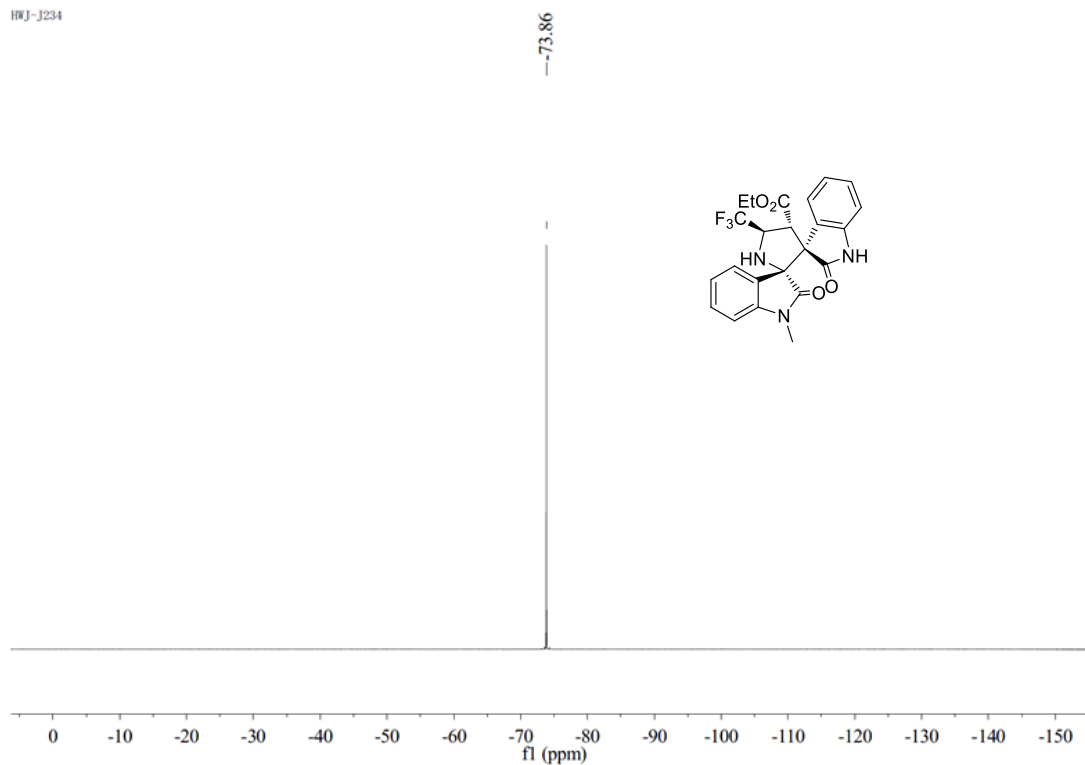


^{13}C NMR of compound **3x** (in CDCl_3)



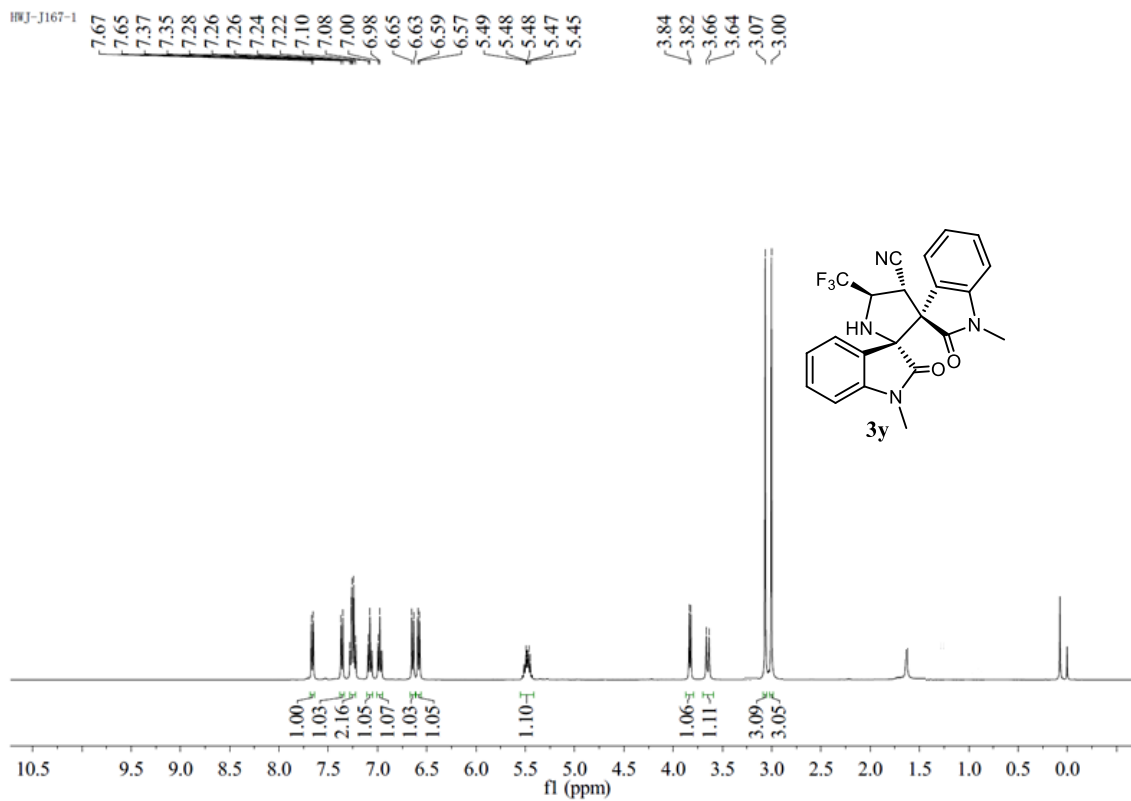
¹⁹F NMR of compound **3x** (in CDCl₃)

HWJ-J234



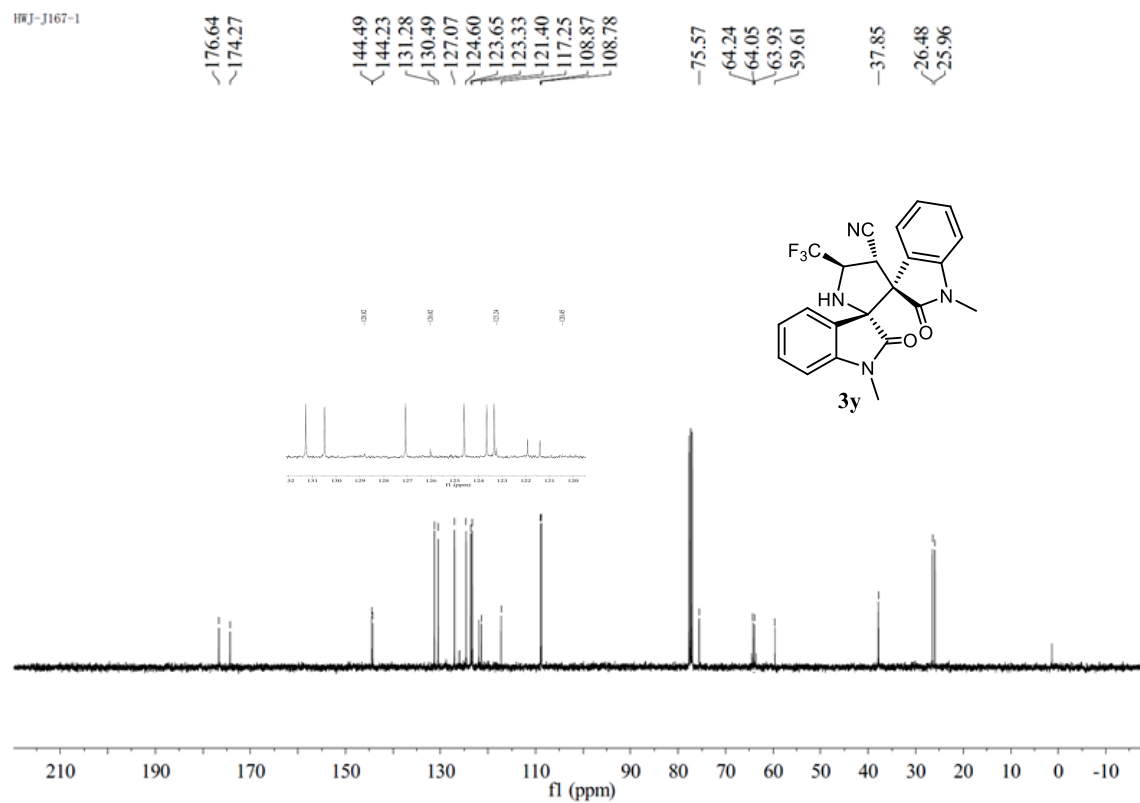
¹H NMR of compound **3y** (in CDCl₃)

HWJ-J167-1



¹³CNMR of compound **3y** (in CDCl₃)

HWJ-1167-1



¹⁹FNMR of compound **3y** (in CDCl₃)

HWJ-1167-1

