

Supporting Information:

Highly efficient heterogeneous aerobic oxidative C–C coupling from C_{sp3}–H bonds by a magnetic nanoparticles-immobilized bipy-gold(III) catalyst

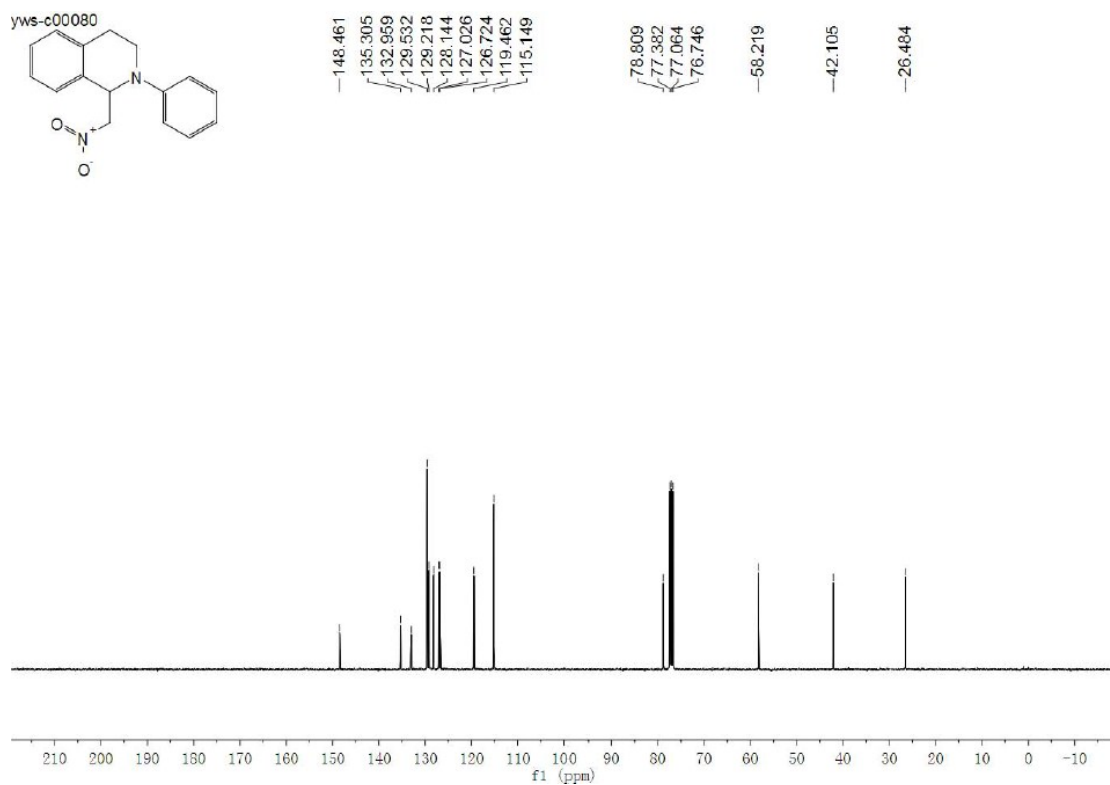
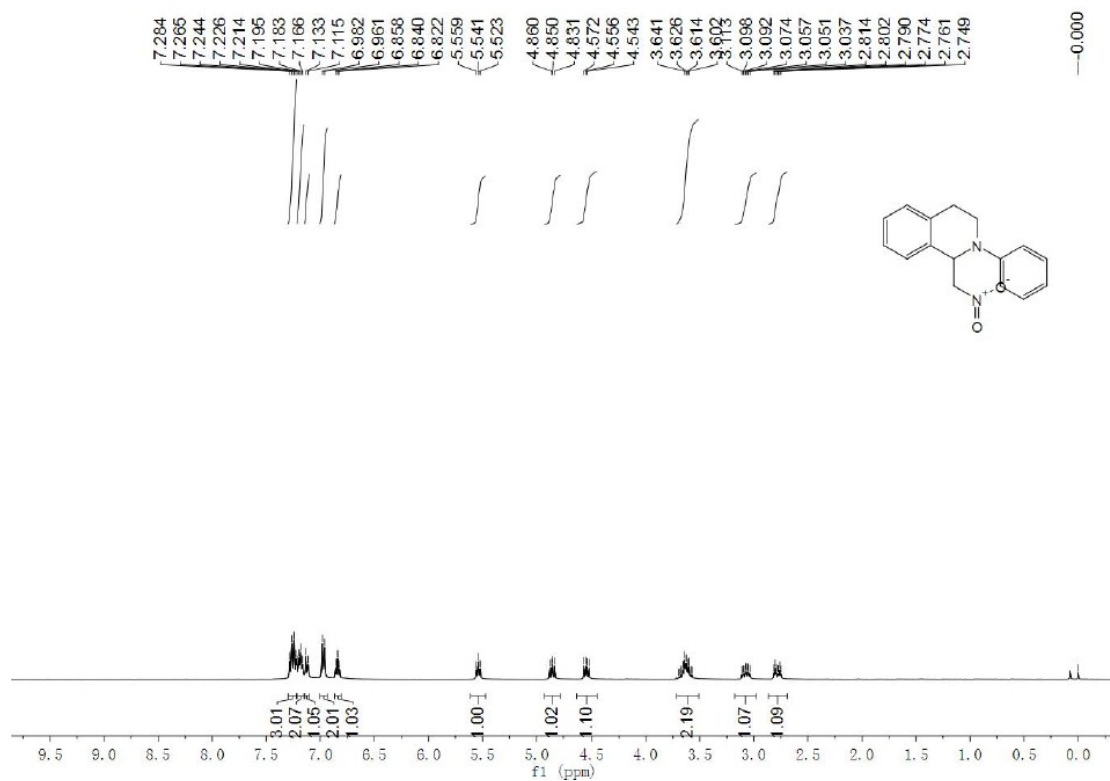
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^a *Key Laboratory of Functional Small Organic Molecule, Ministry of Education and College of Chemistry & Chemical Engineering, Jiangxi Normal University, Nanchang 330022, P. R. China*

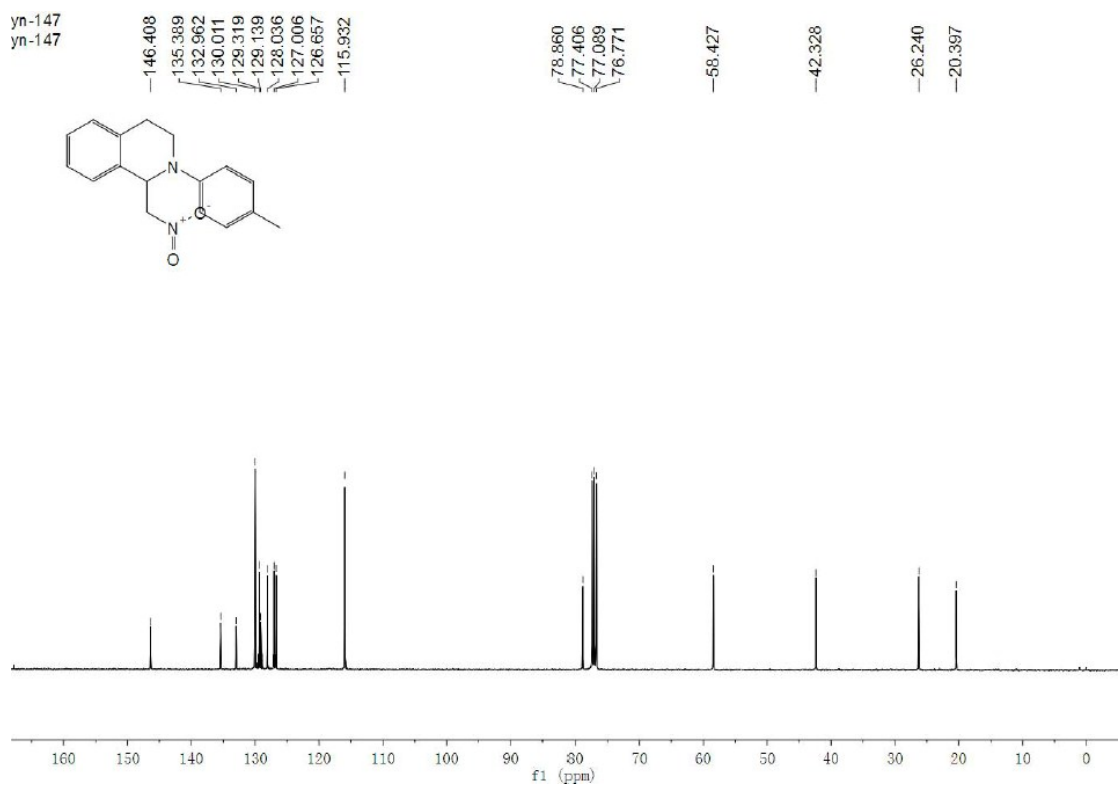
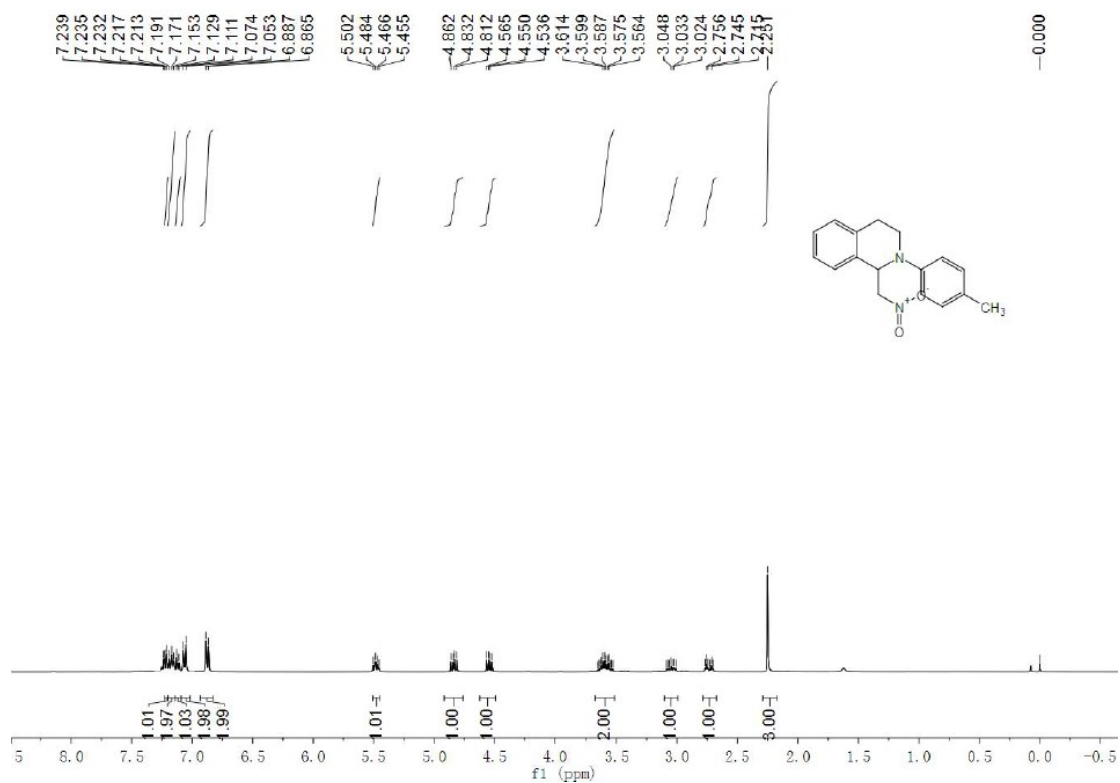
^b *College of Ecology and Resources Engineering, Wuyi University, Wuyishan City 354300, P. R. China*

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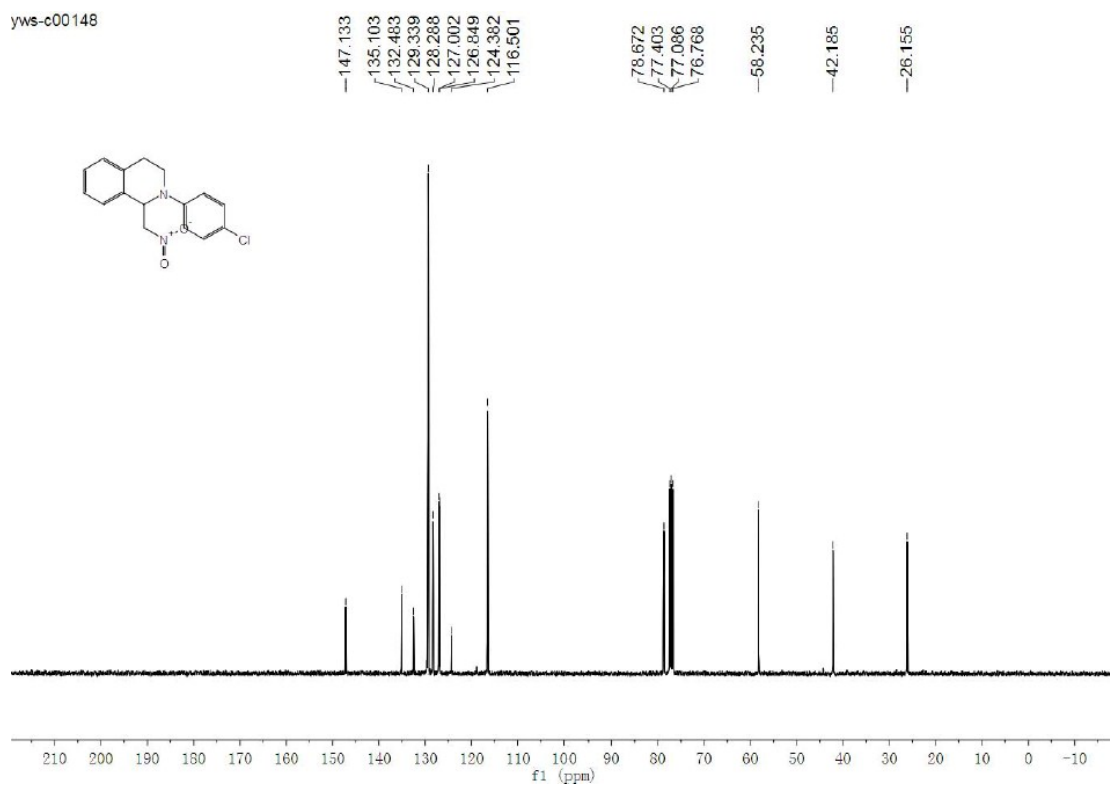
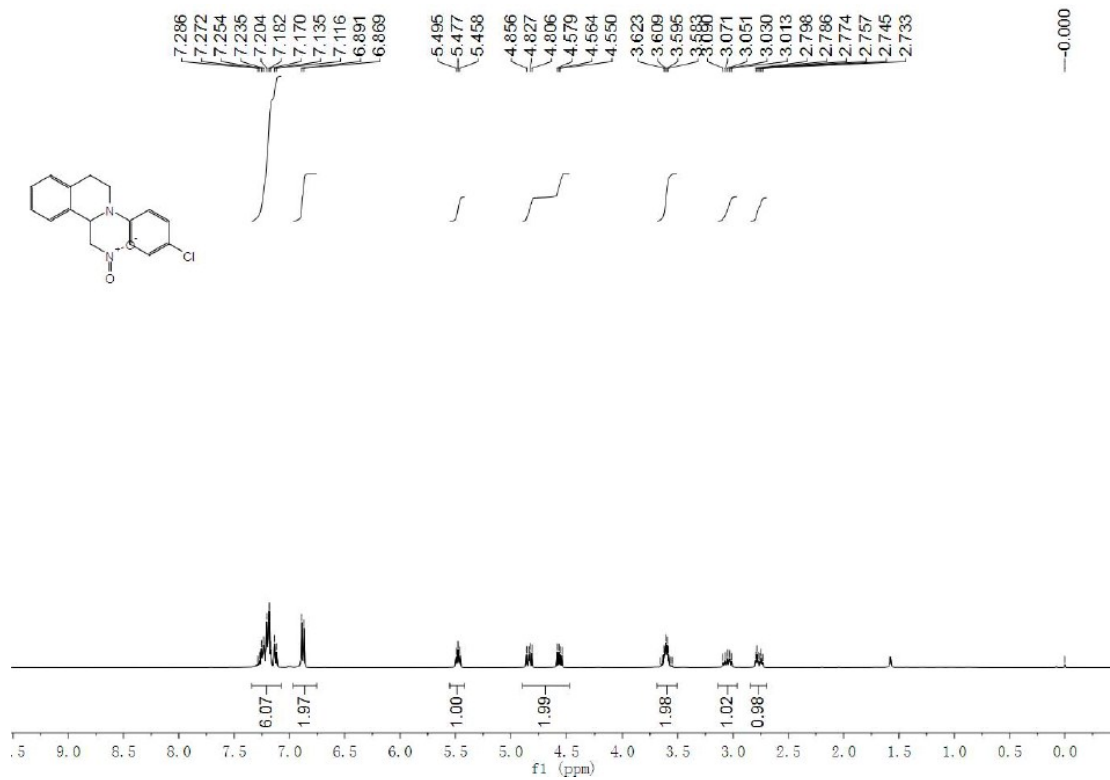
Copies of ¹H NMR and ¹³C NMR spectra of compounds 3a-3b'



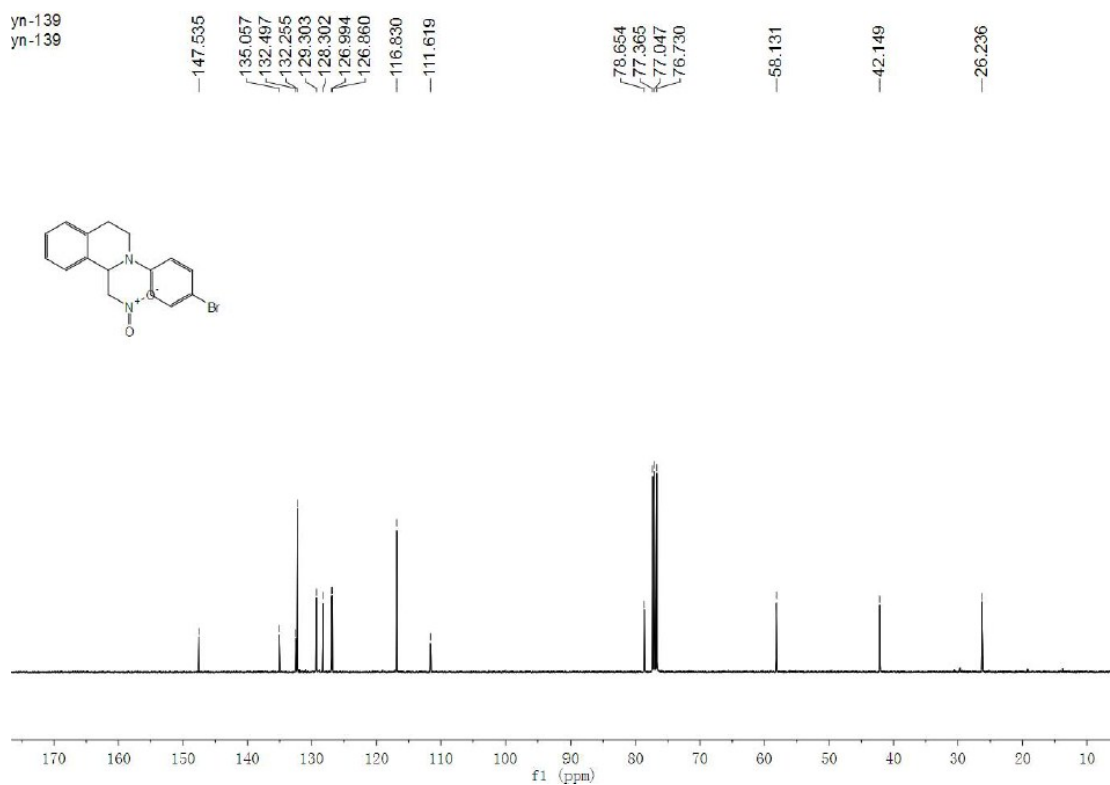
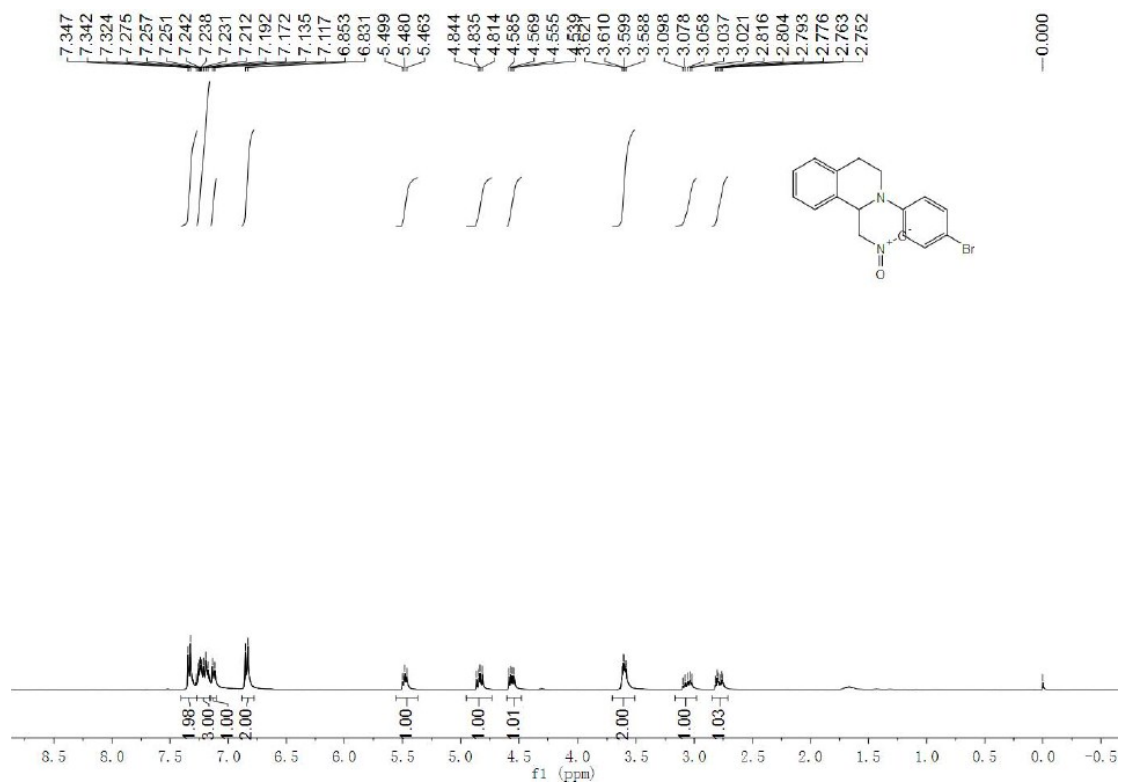
¹H NMR and ¹³C NMR spectra of compound 3a



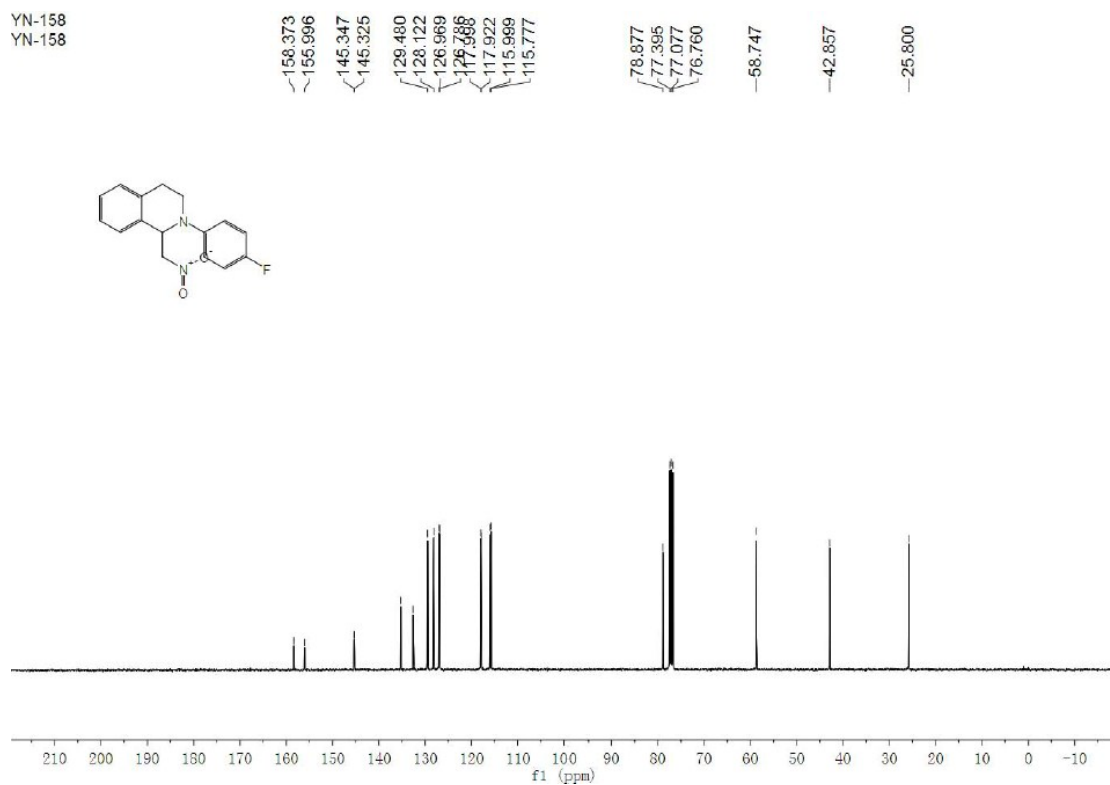
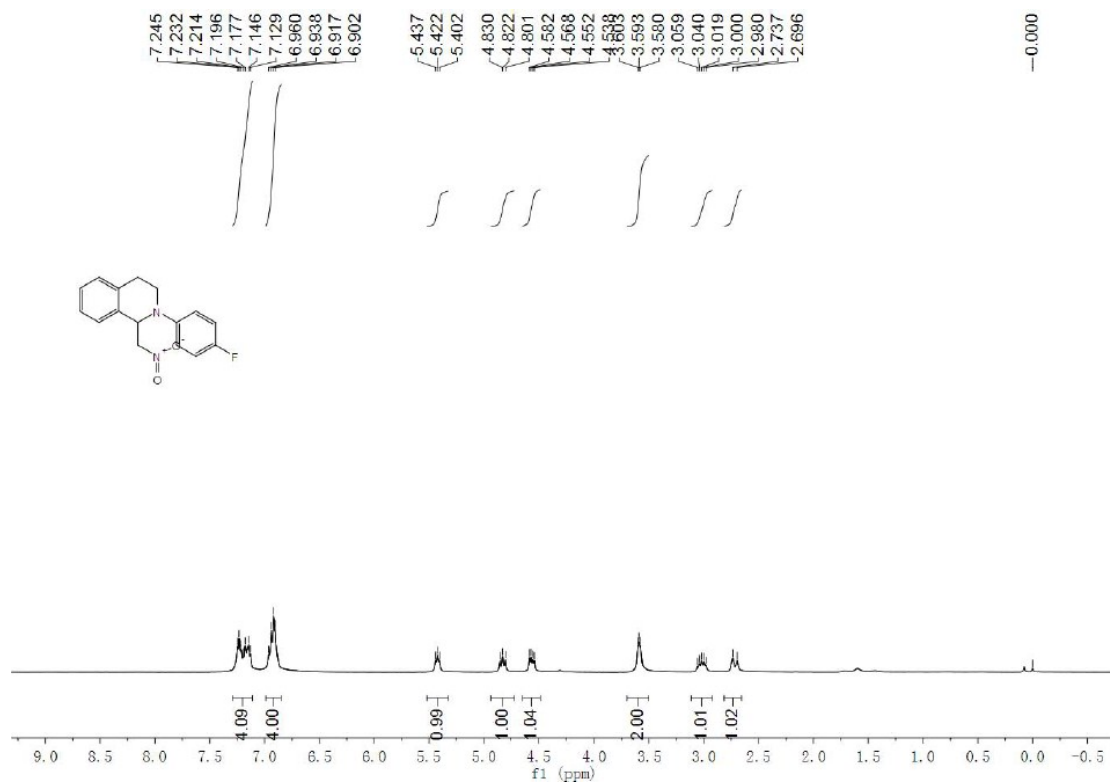
¹H NMR and ¹³C NMR spectra of compound **3b**



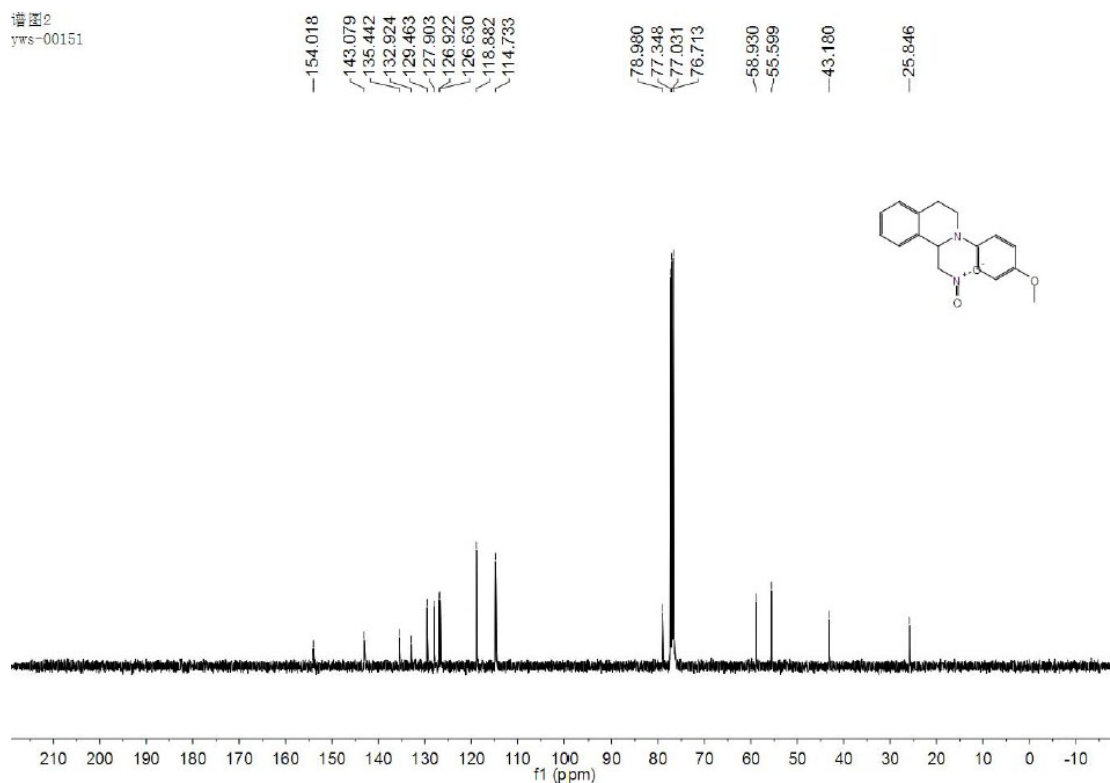
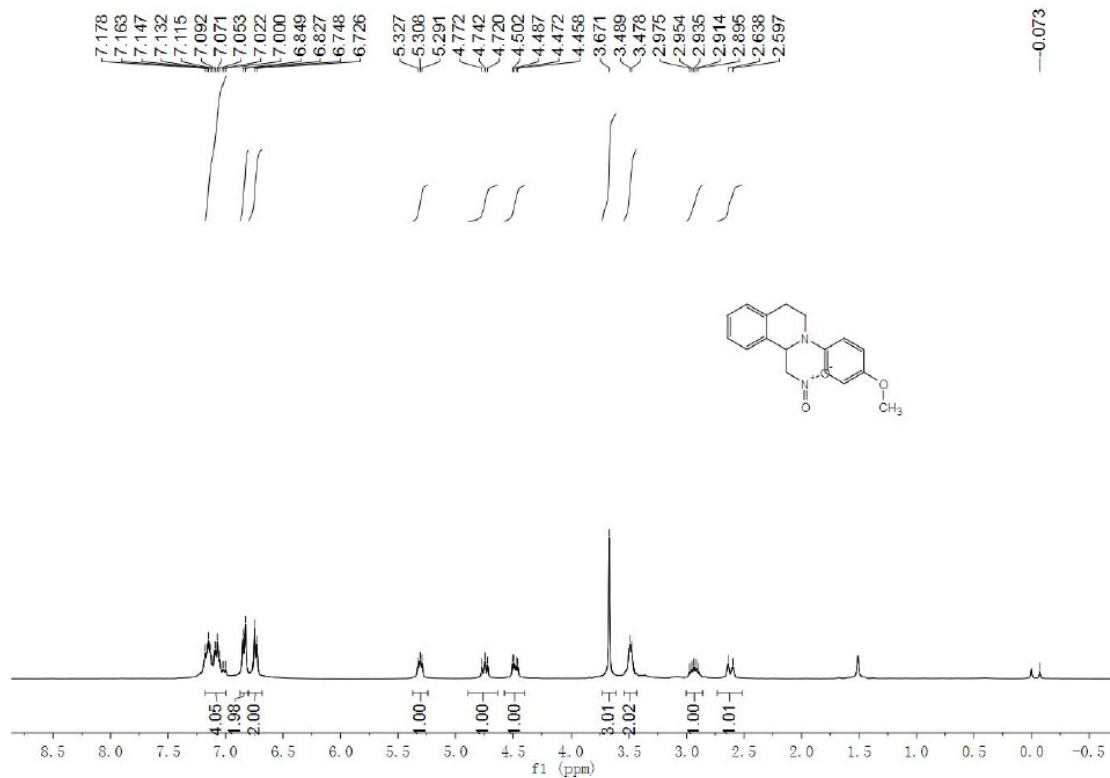
¹H NMR and ¹³C NMR spectra of compound **3c**



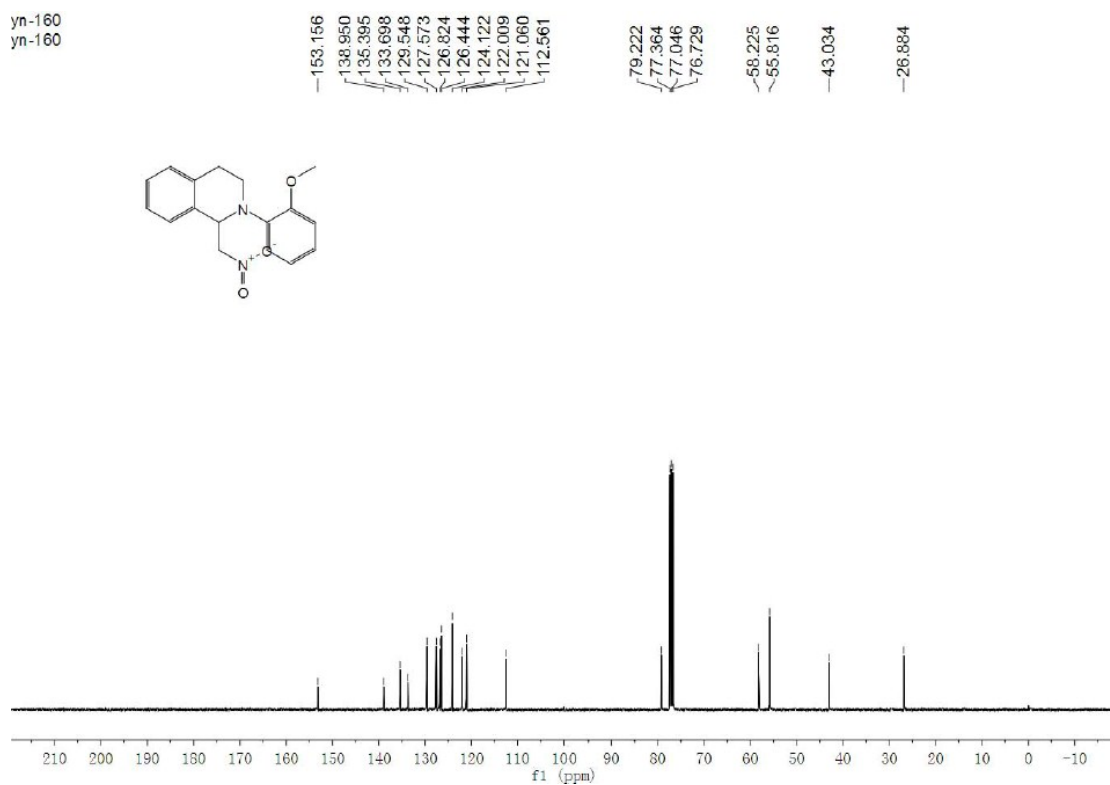
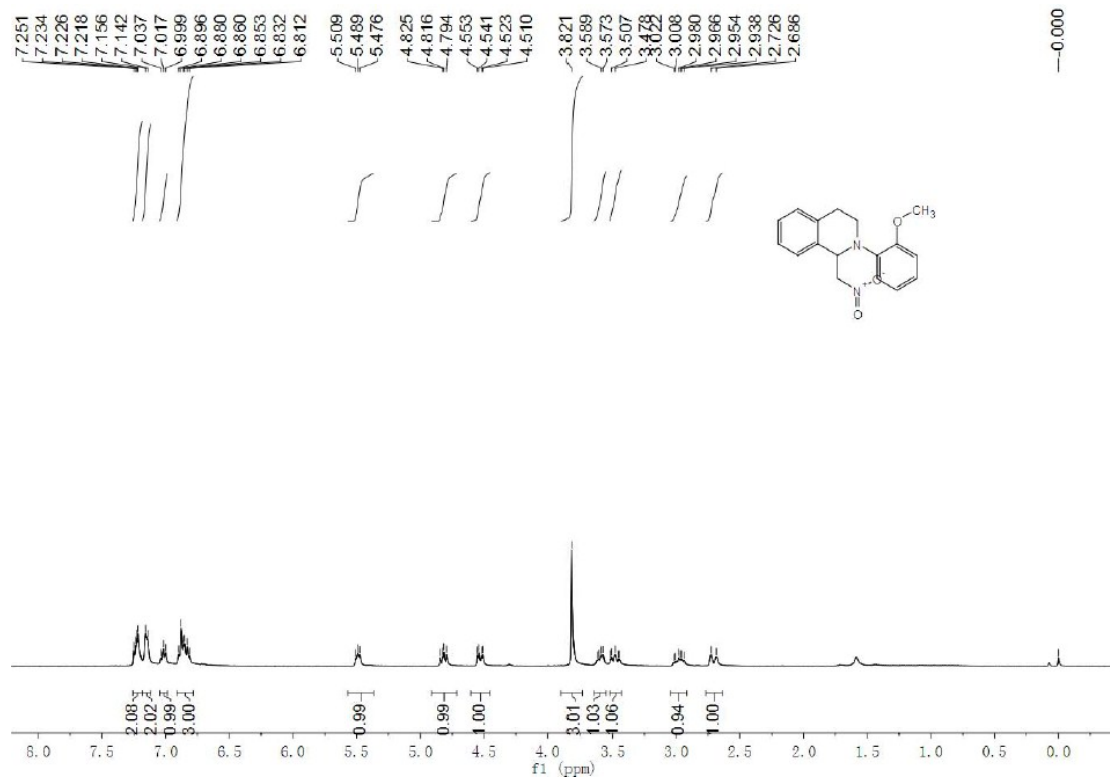
¹H NMR and ¹³C NMR spectra of compound **3d**



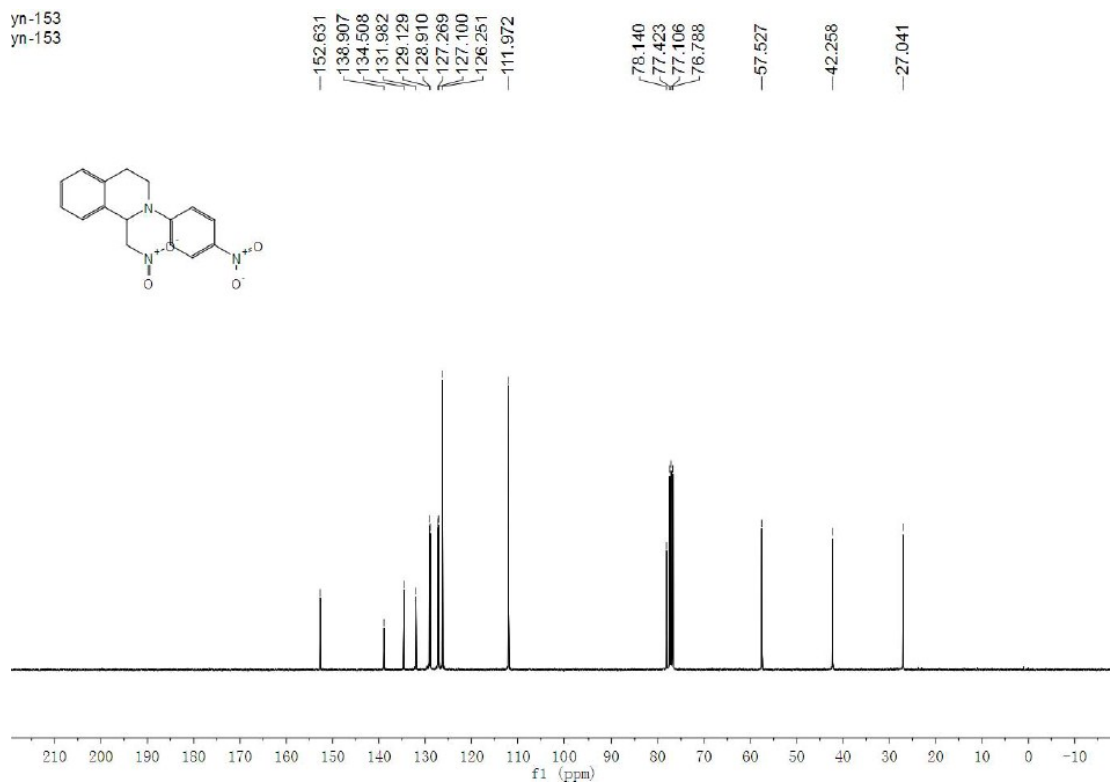
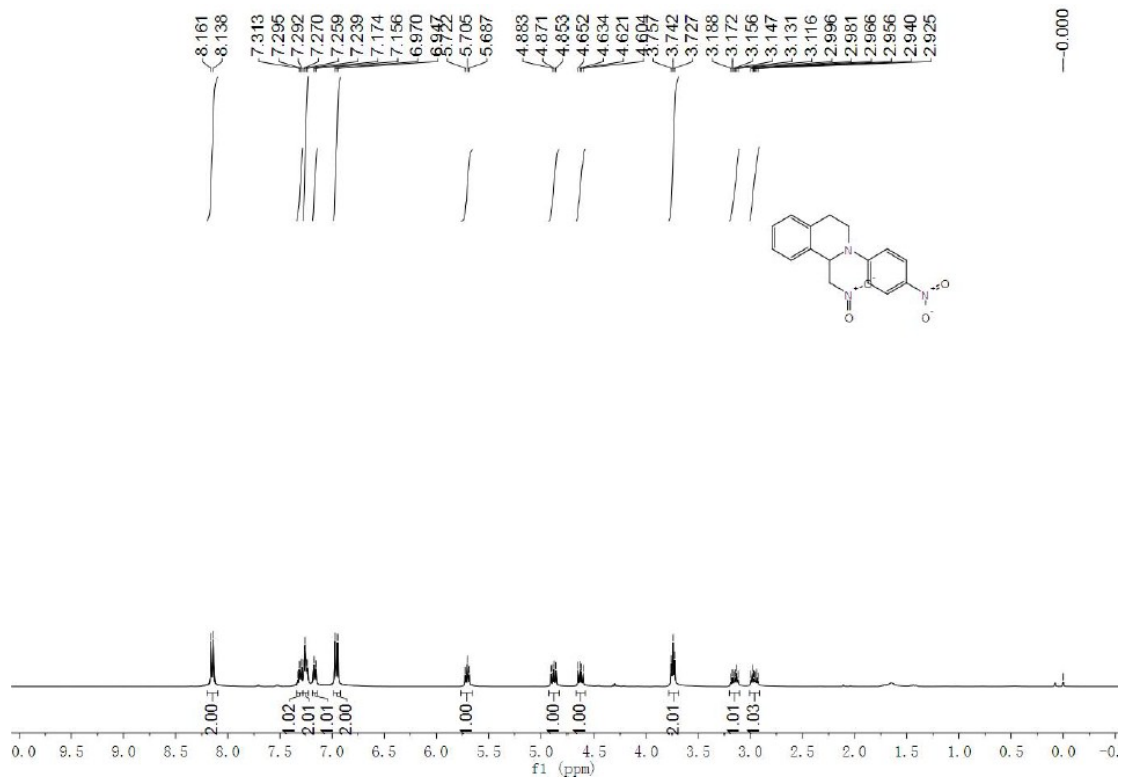
¹H NMR and ¹³C NMR spectra of compound **3e**



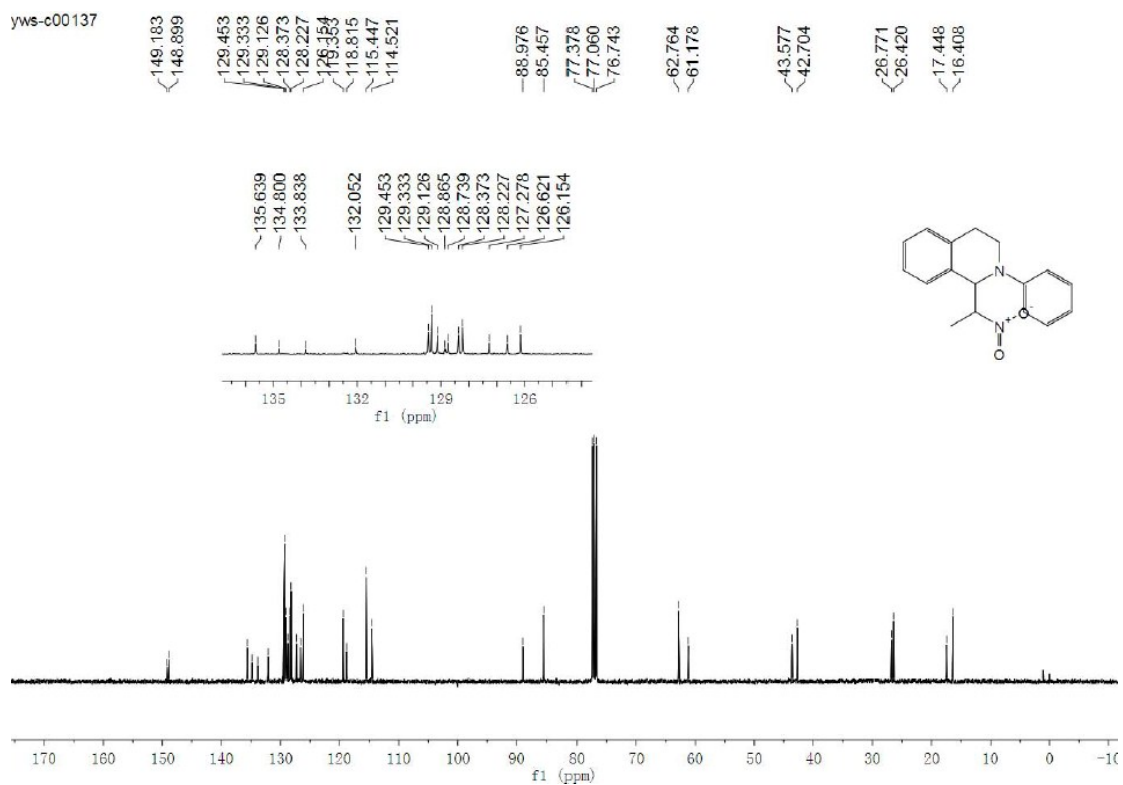
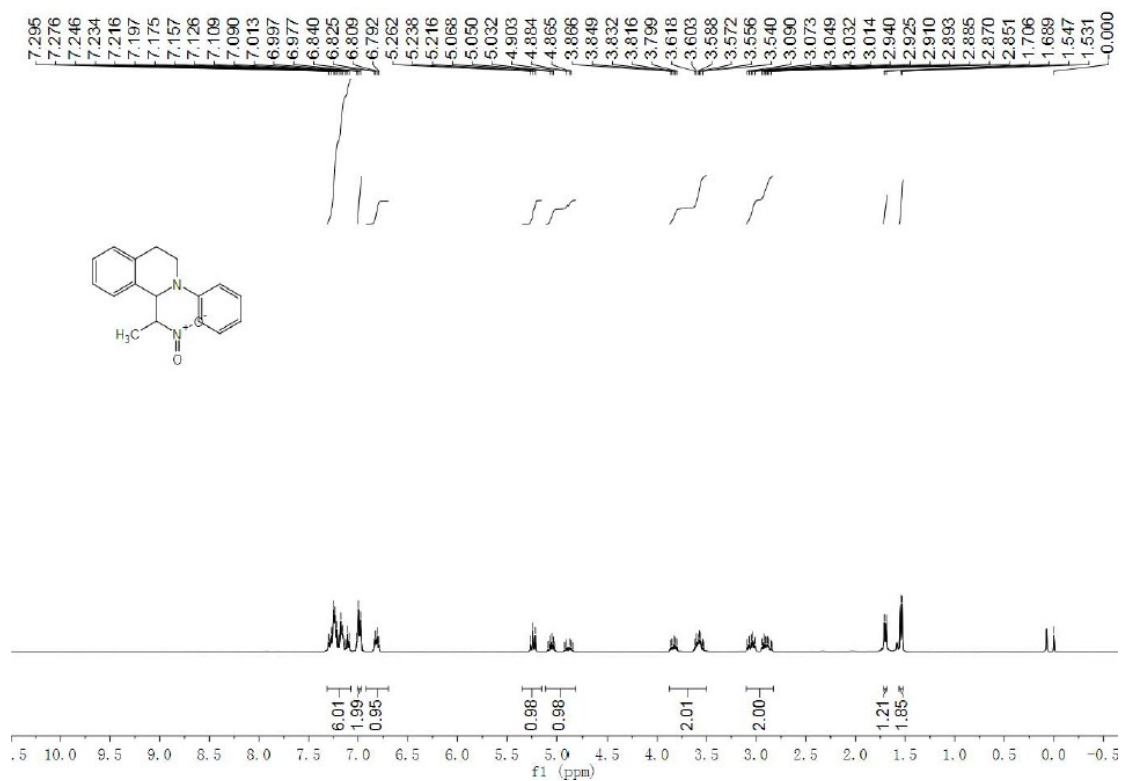
¹H NMR and ¹³C NMR spectra of compound **3f**



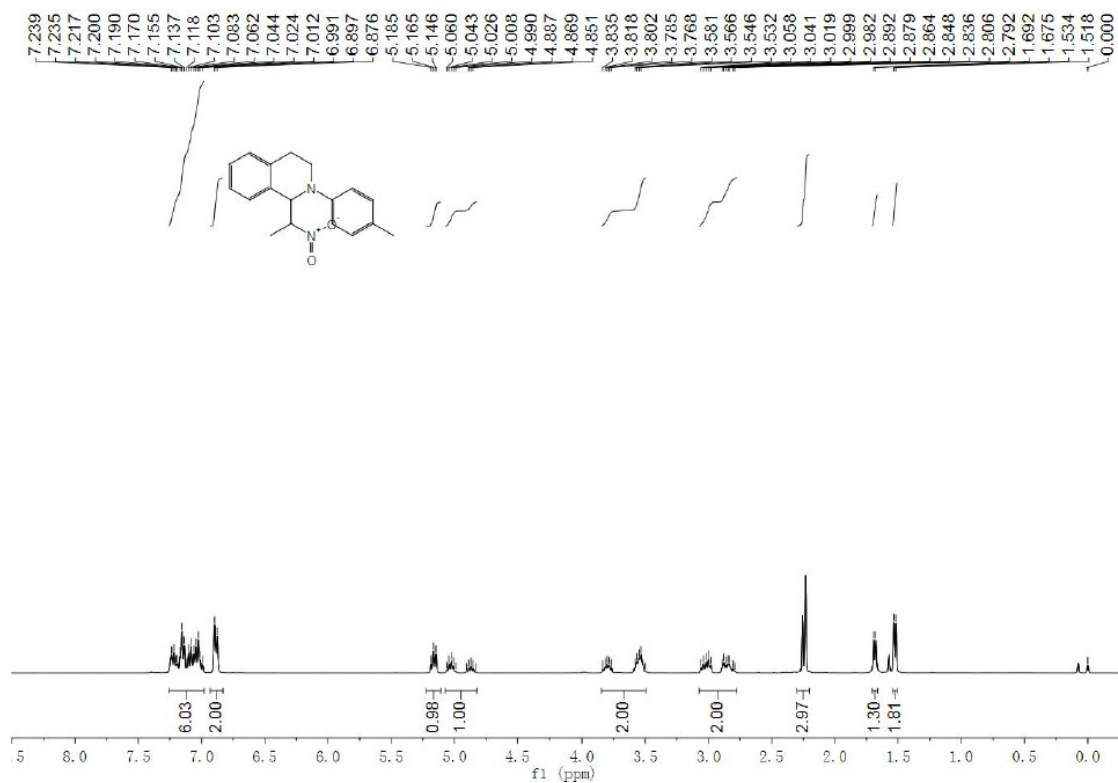
^1H NMR and ^{13}C NMR spectra of compound **3g**



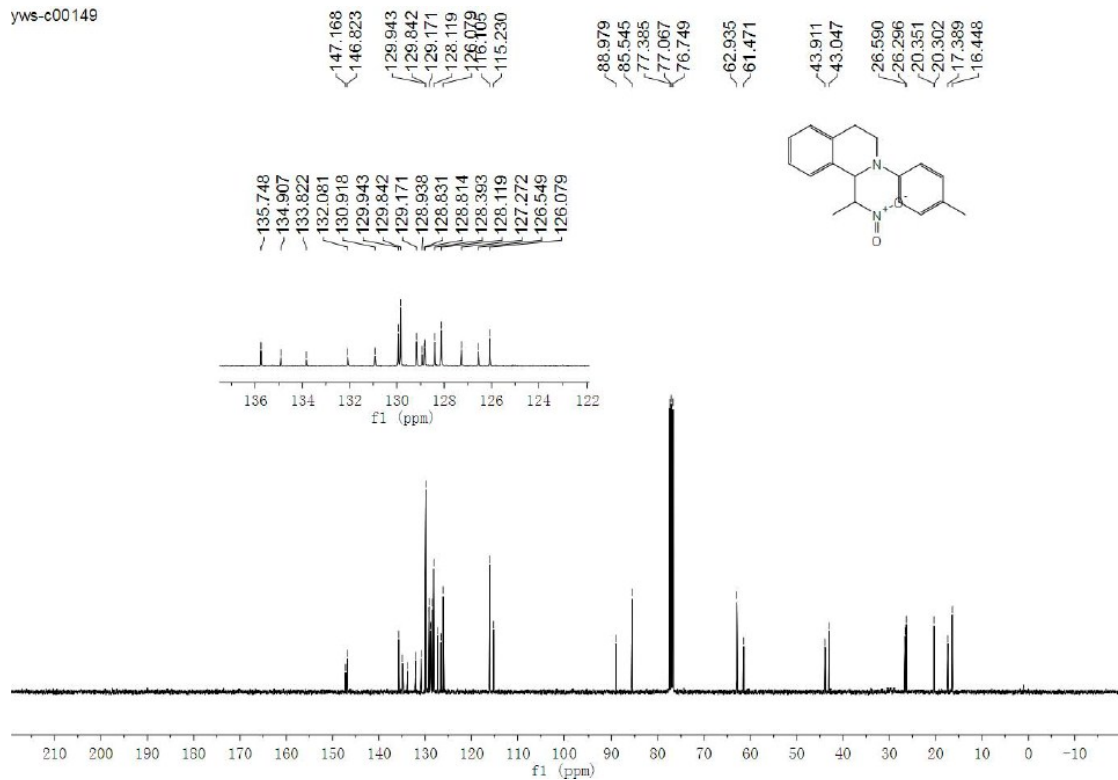
¹H NMR and ¹³C NMR spectra of compound **3h**



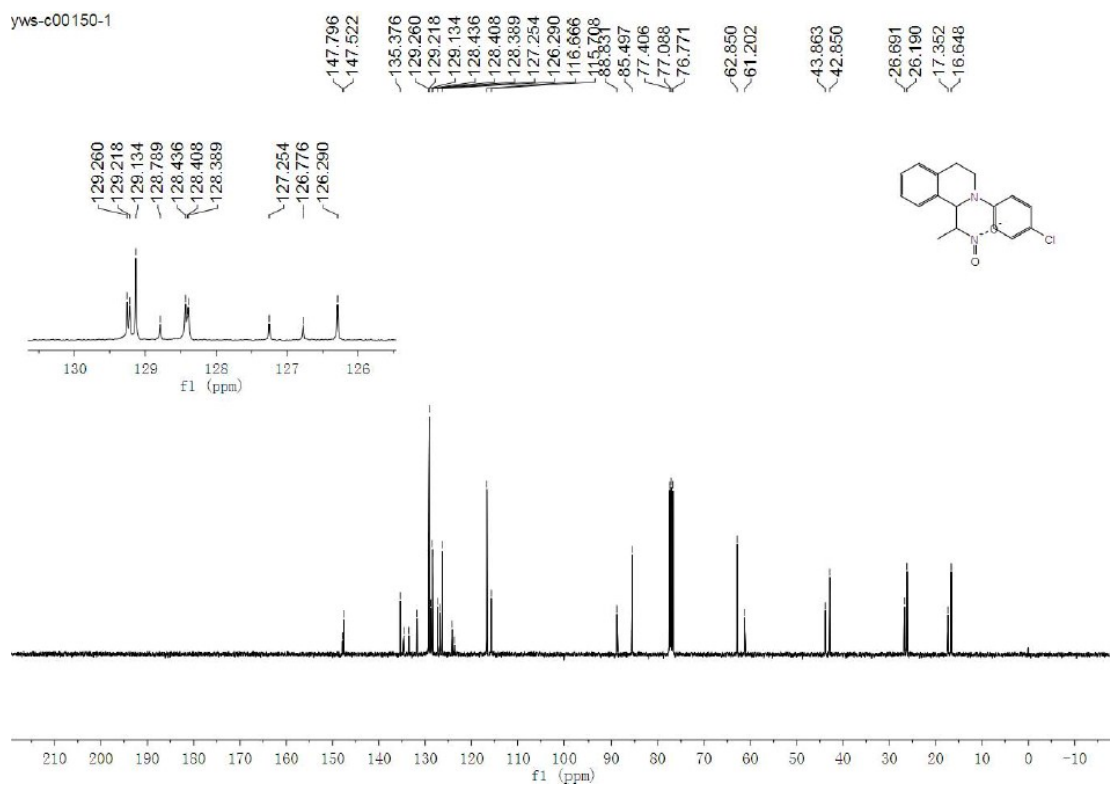
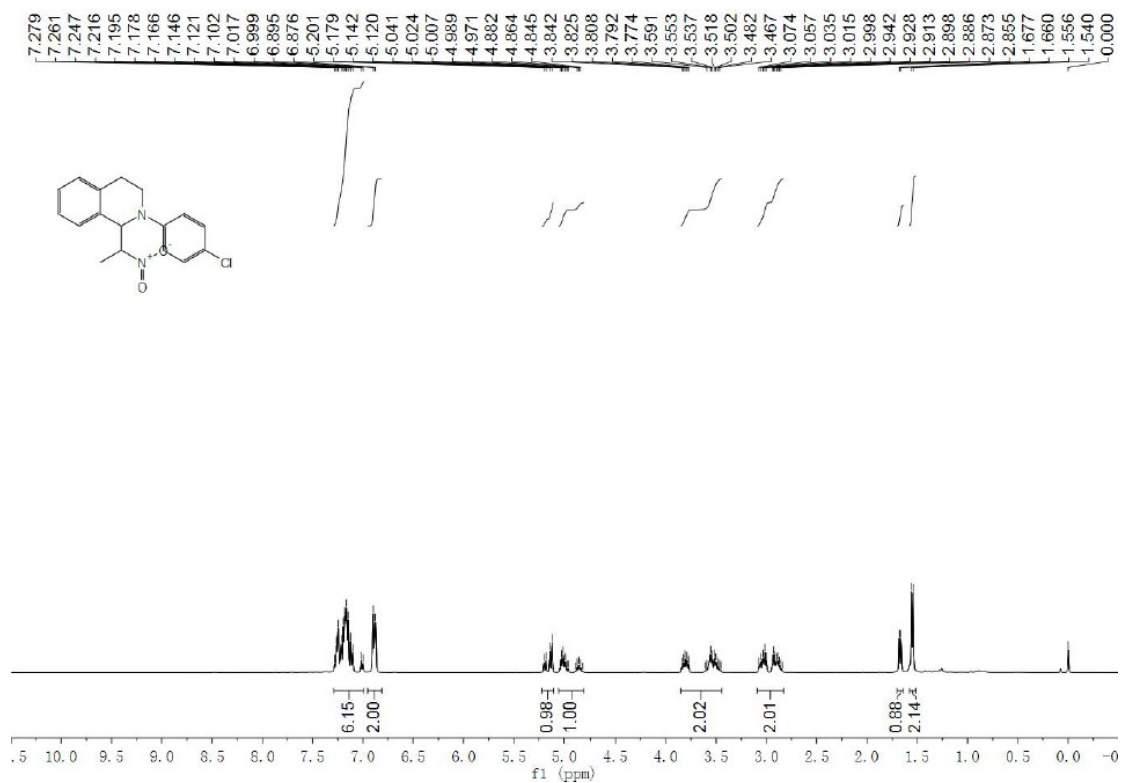
¹H NMR and ¹³C NMR spectra of compound **3i**



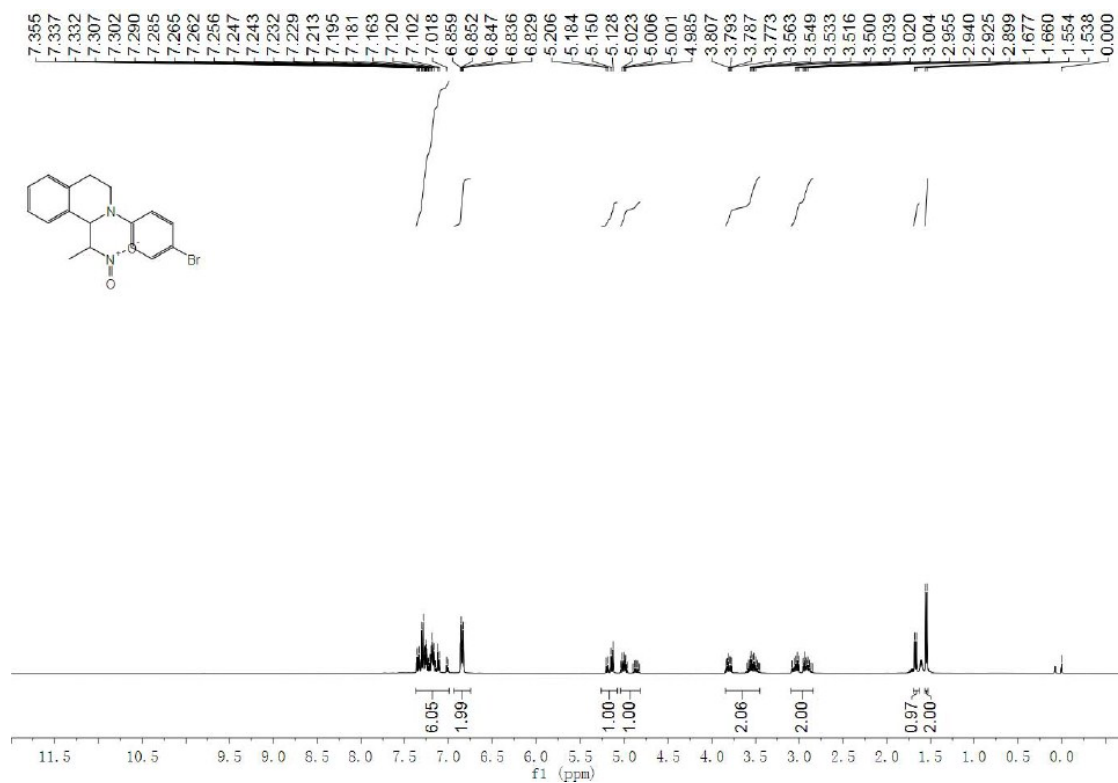
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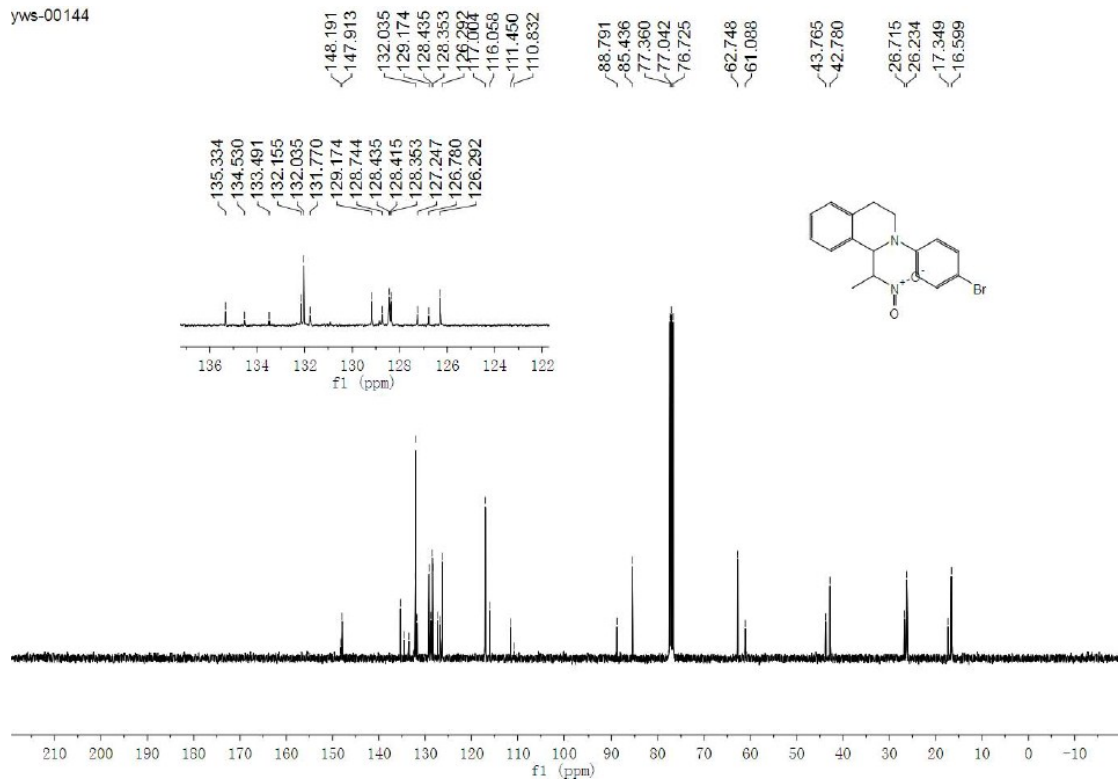
^1H NMR and ^{13}C NMR spectra of compound **3j**



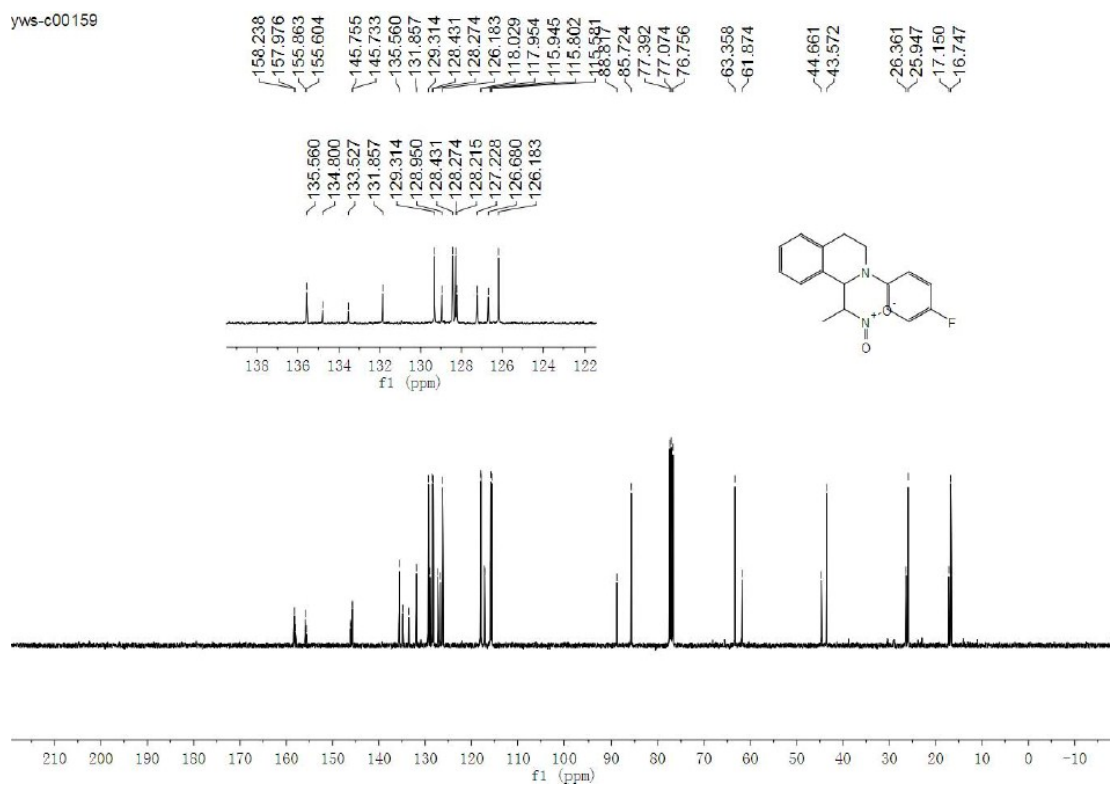
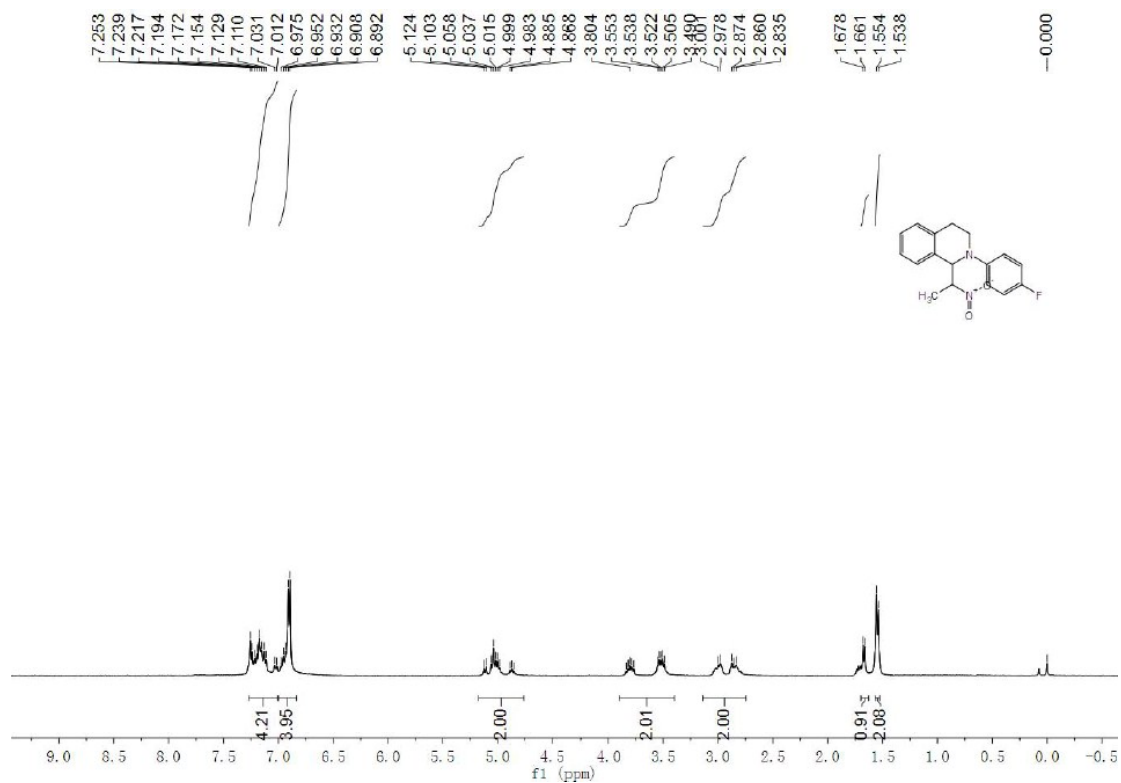
¹H NMR and ¹³C NMR spectra of compound **3k**



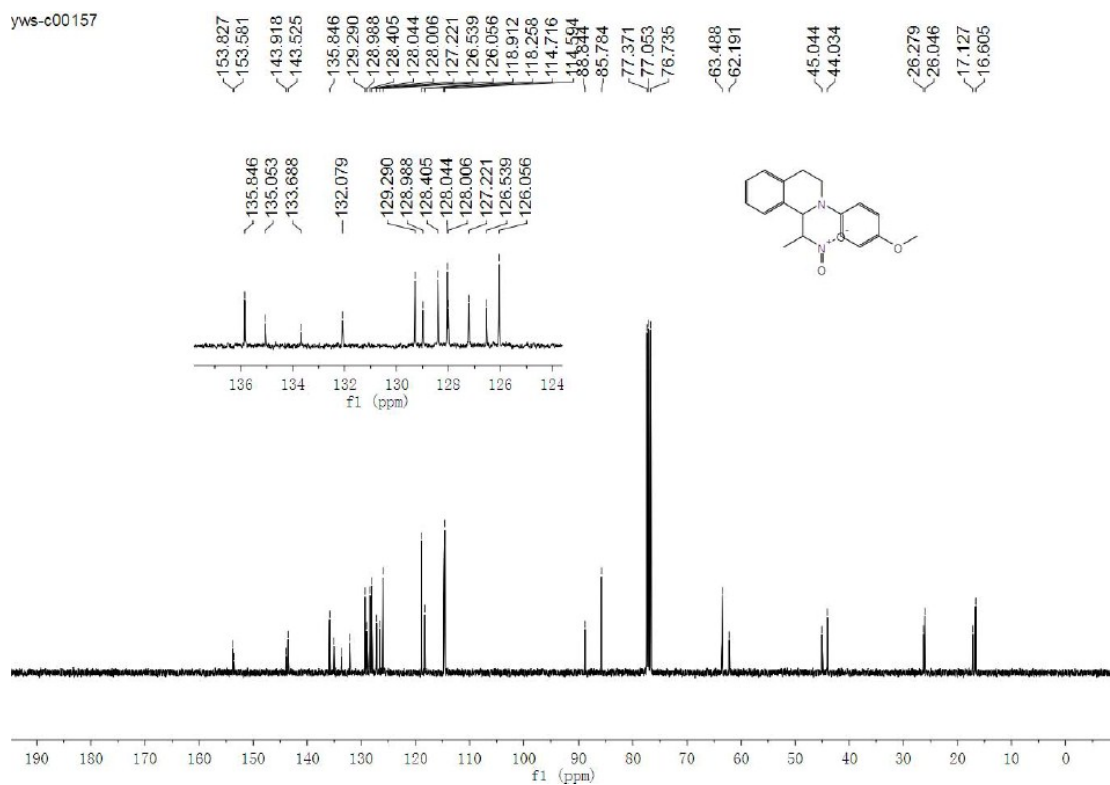
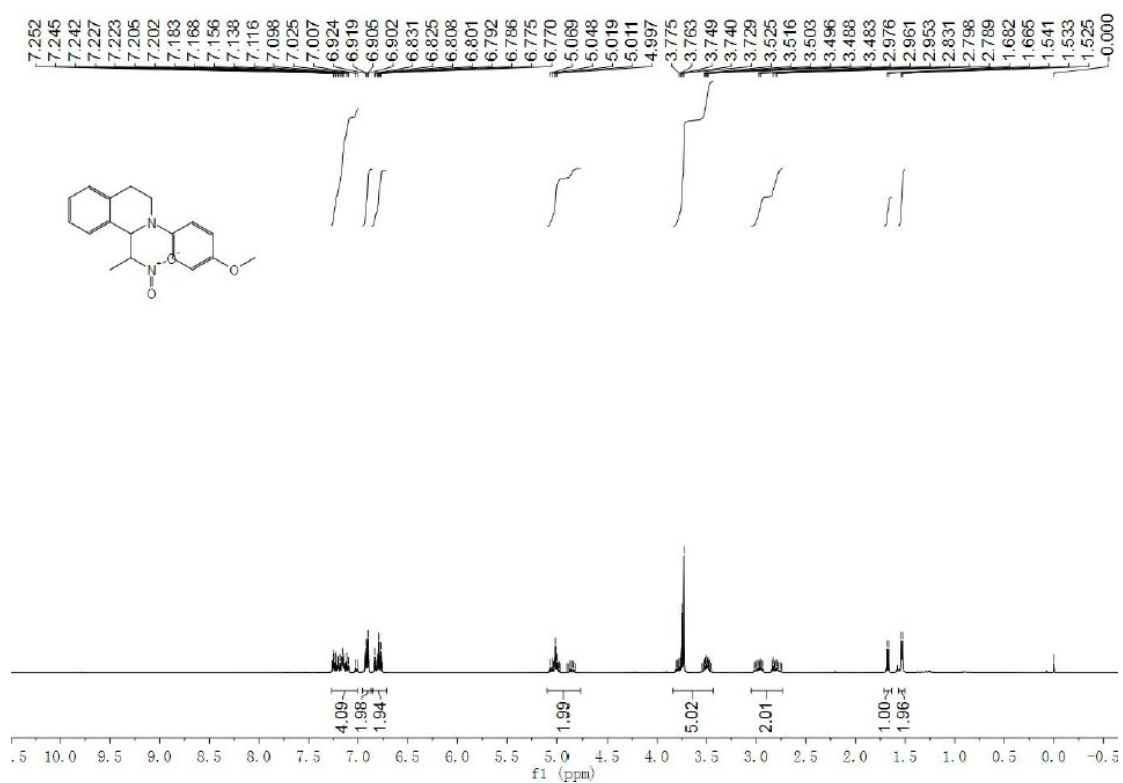
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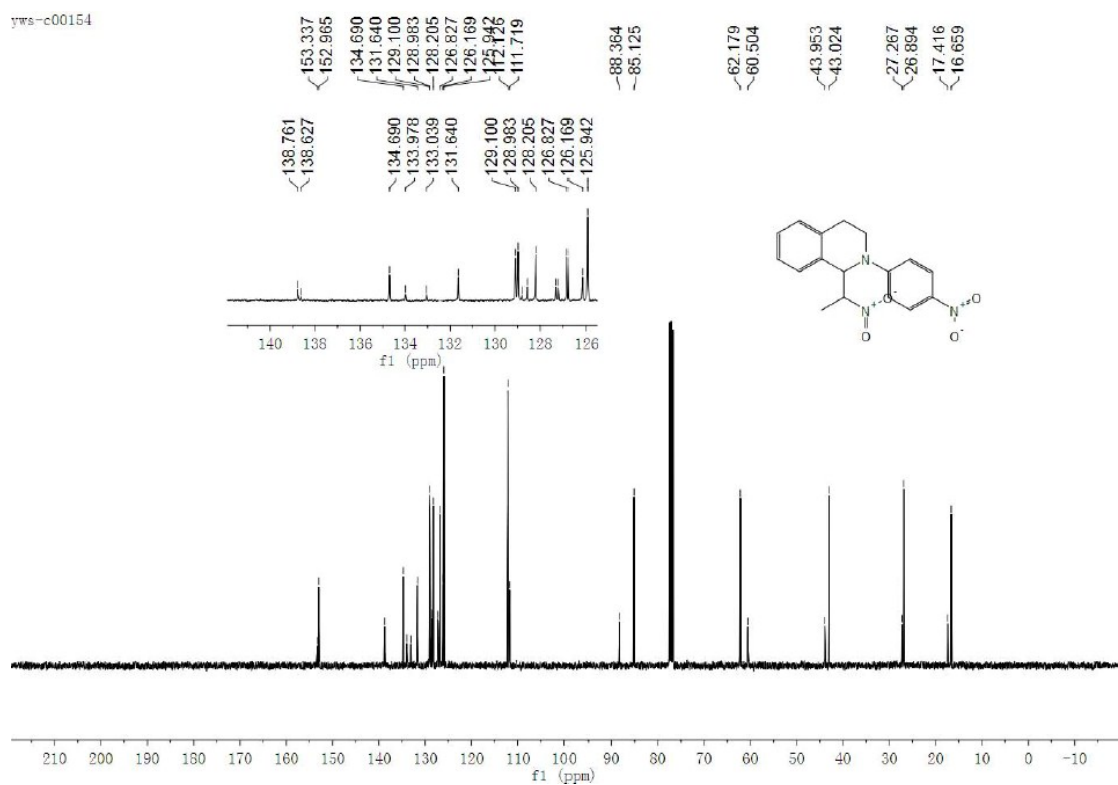
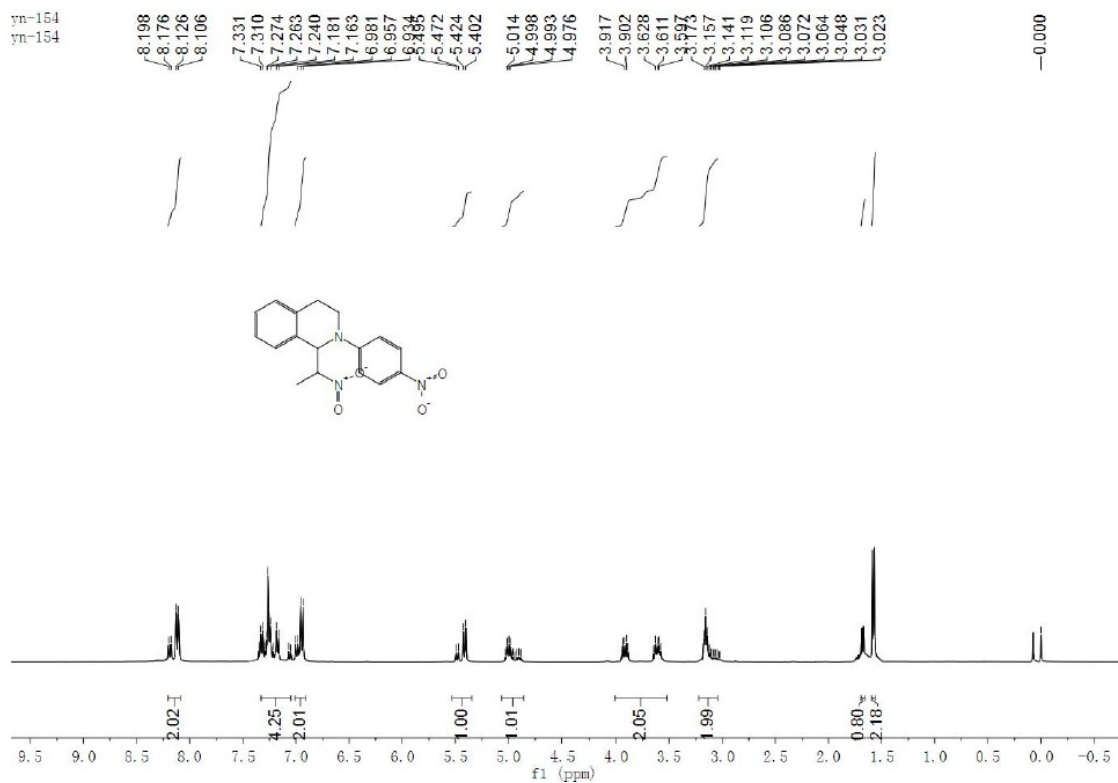
¹H NMR and ¹³C NMR spectra of compound 31



¹H NMR and ¹³C NMR spectra of compound **3m**

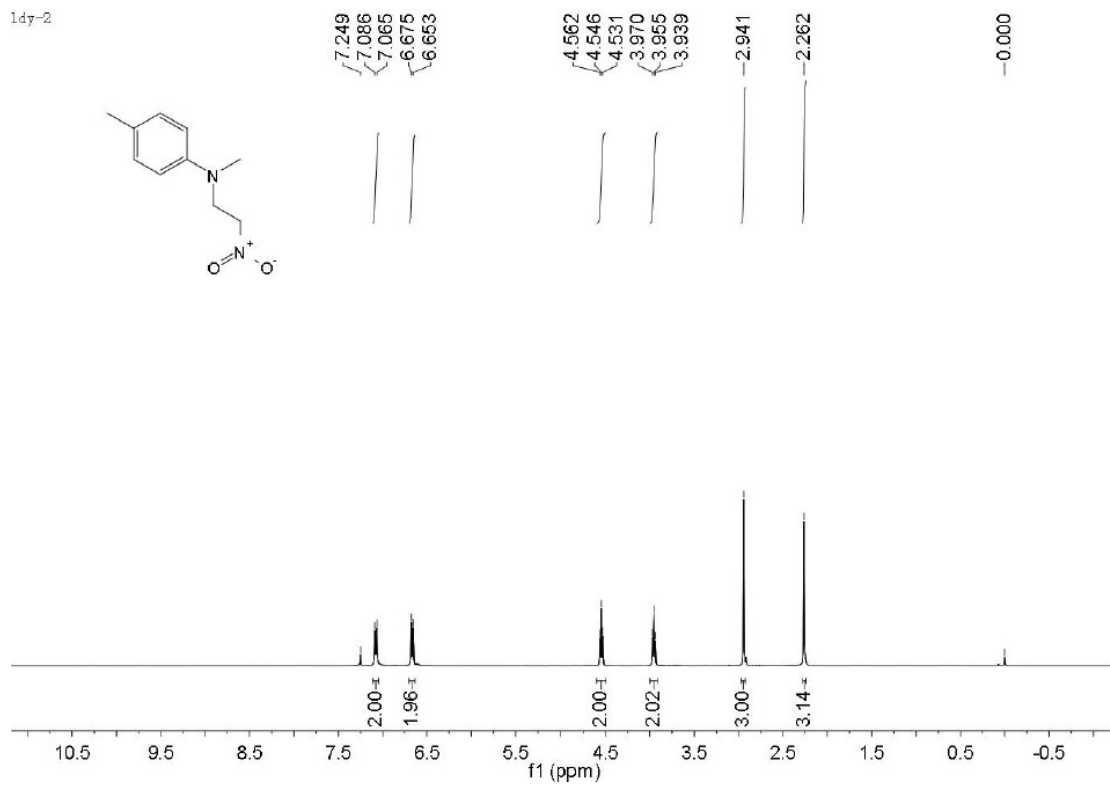


¹H NMR and ¹³C NMR spectra of compound **3n**

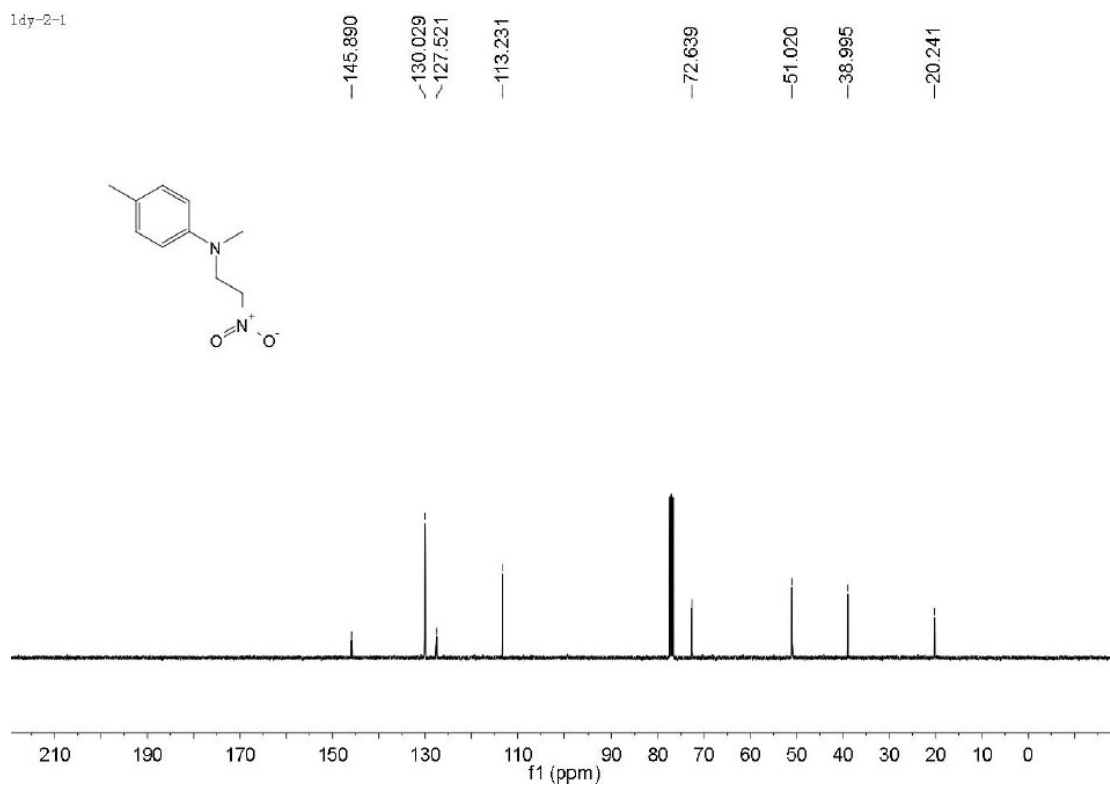


¹H NMR and ¹³C NMR spectra of compound **30**

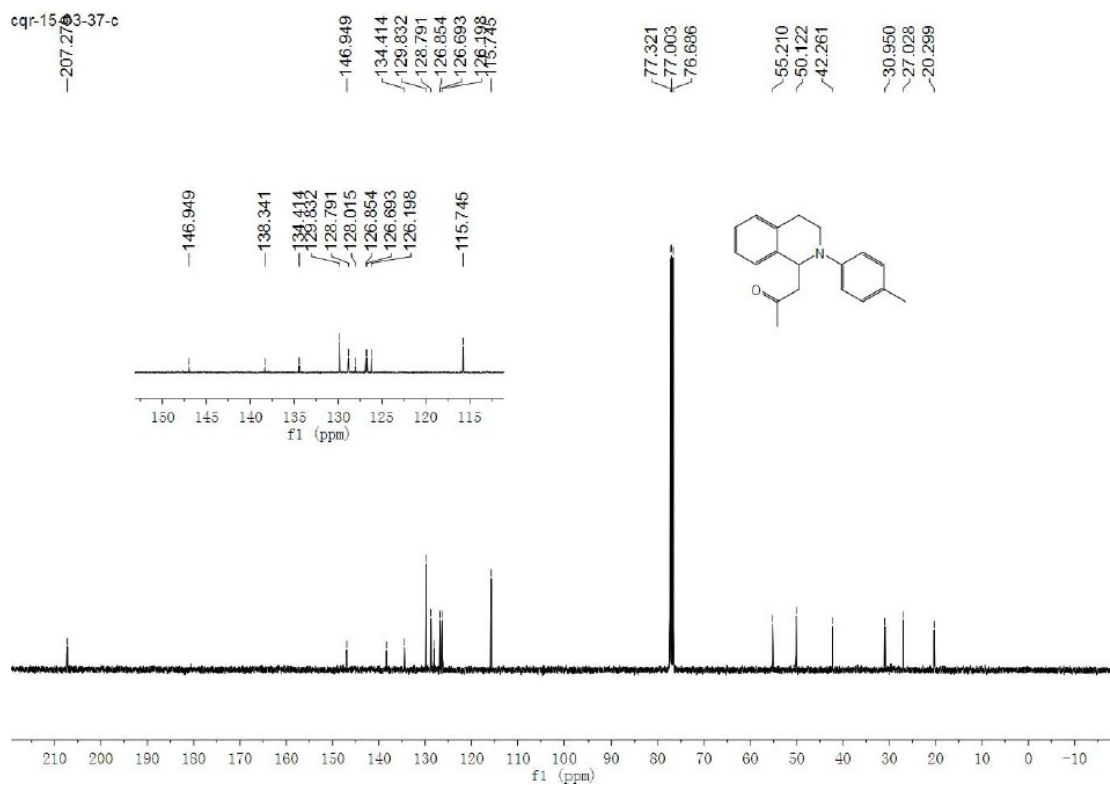
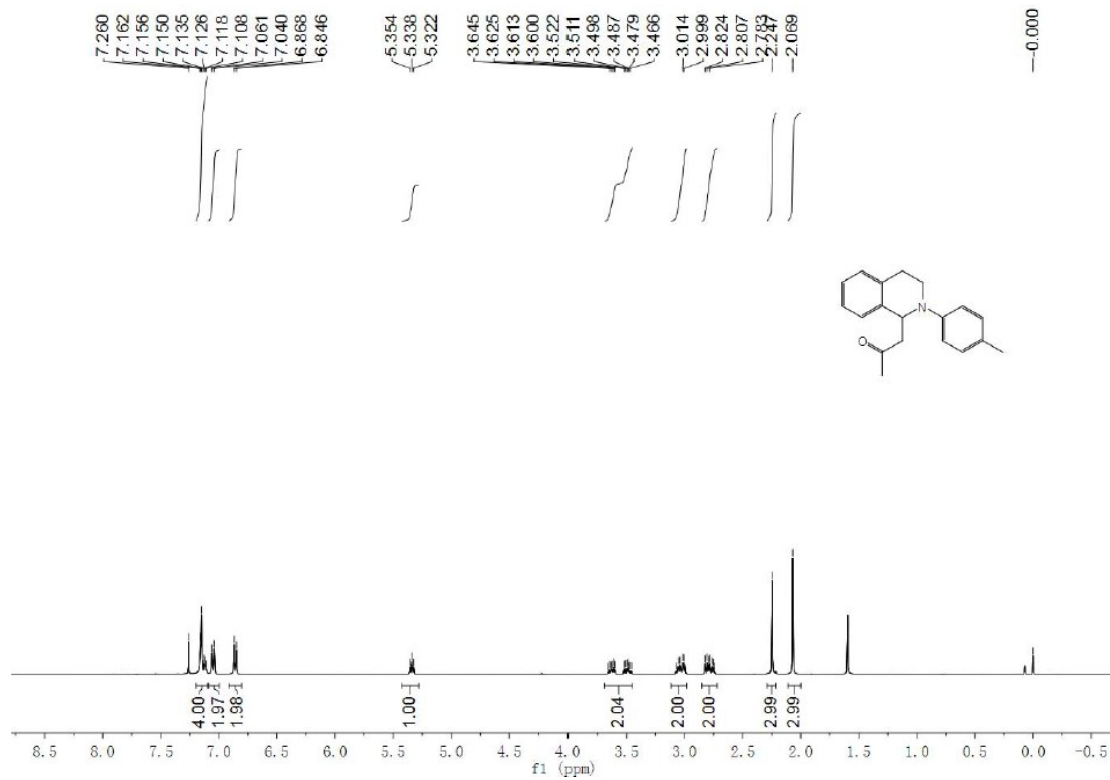
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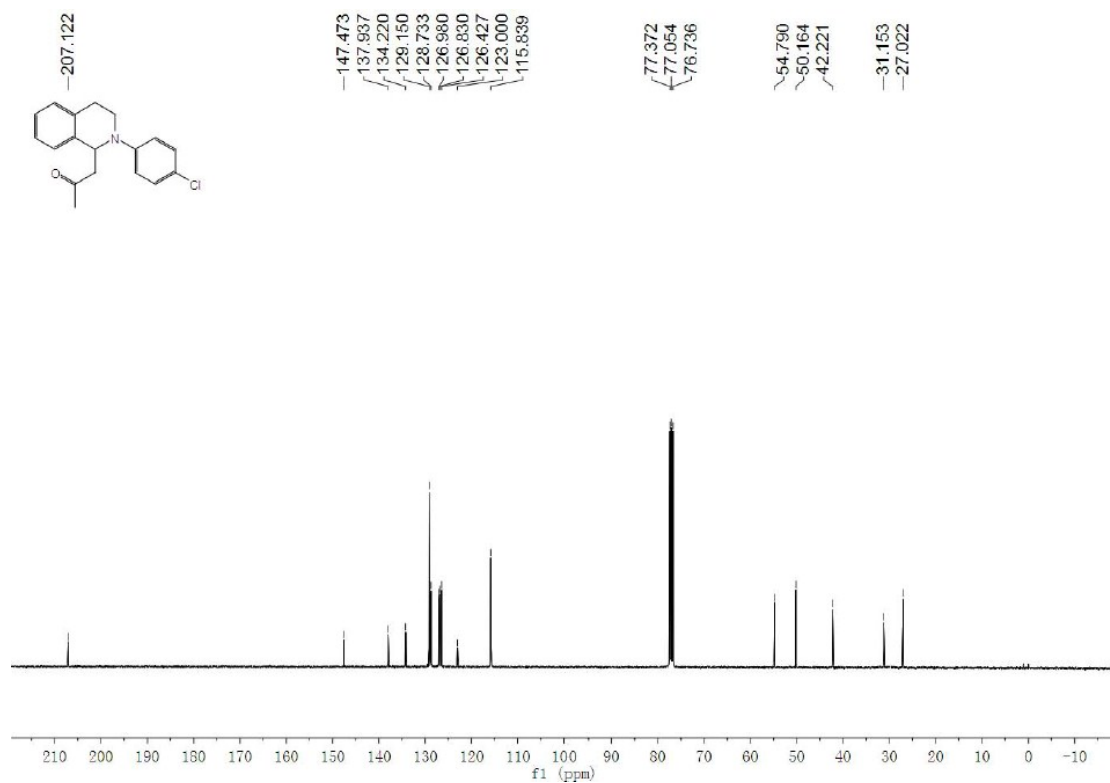
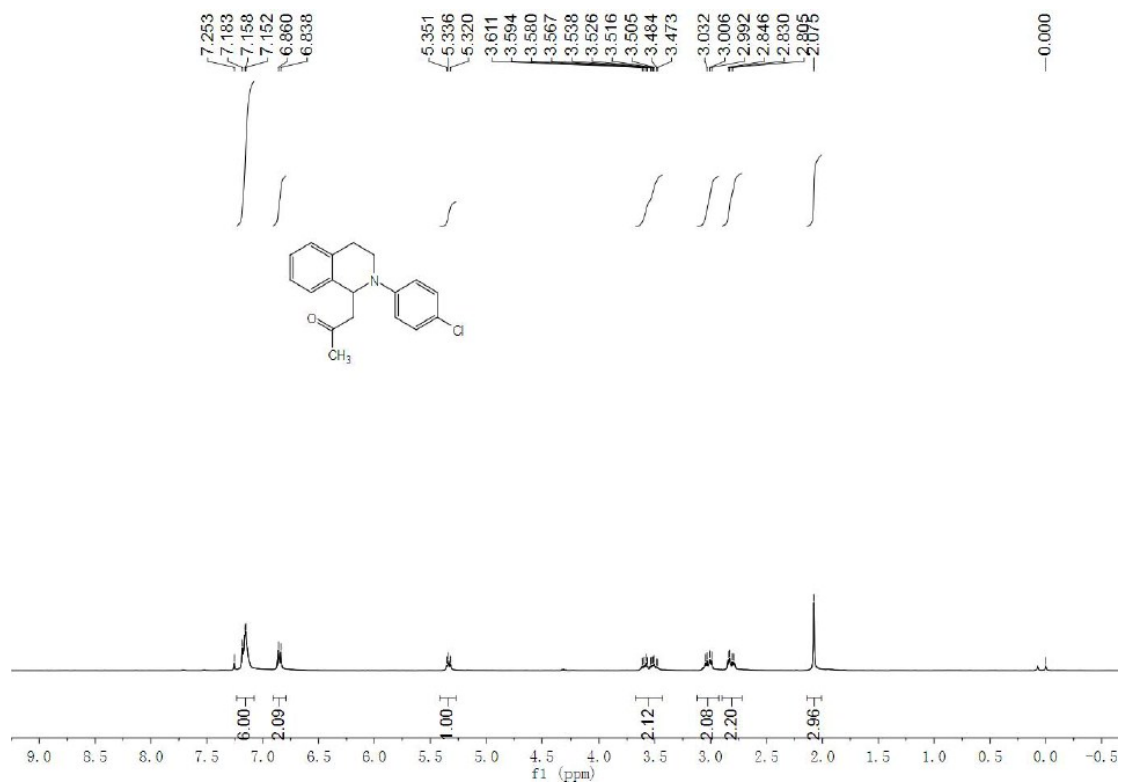
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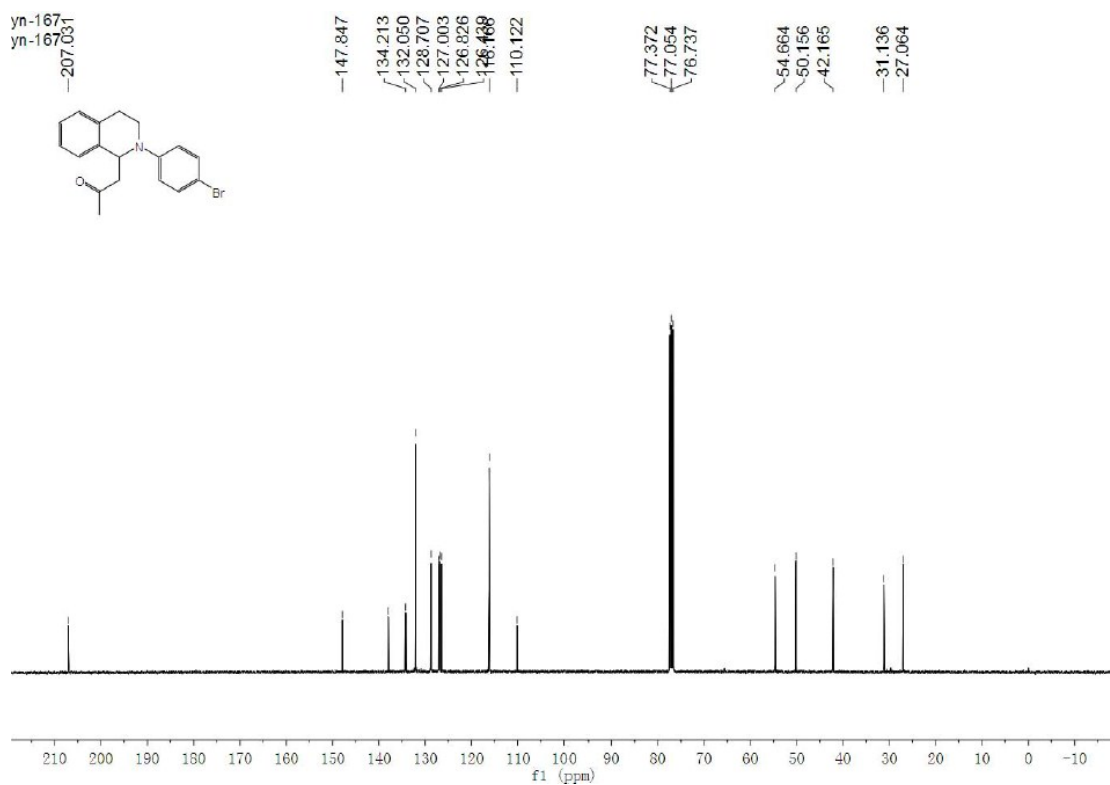
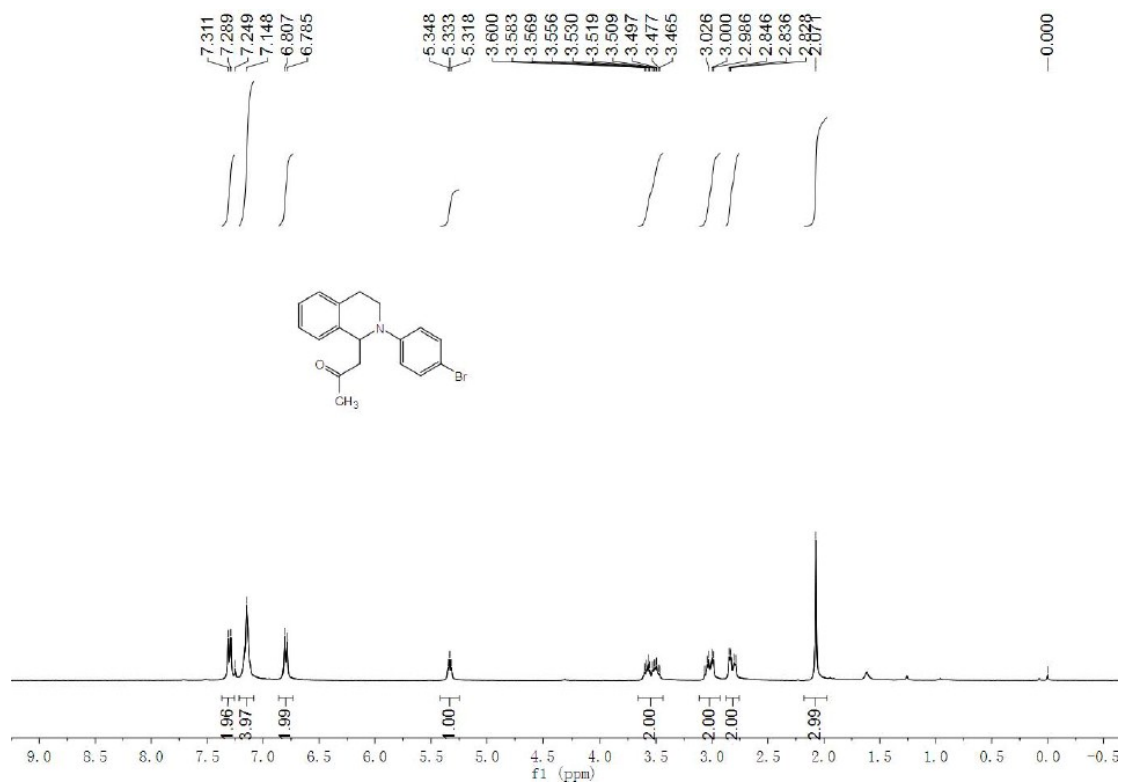
¹H NMR and ¹³C NMR spectra of compound 3p



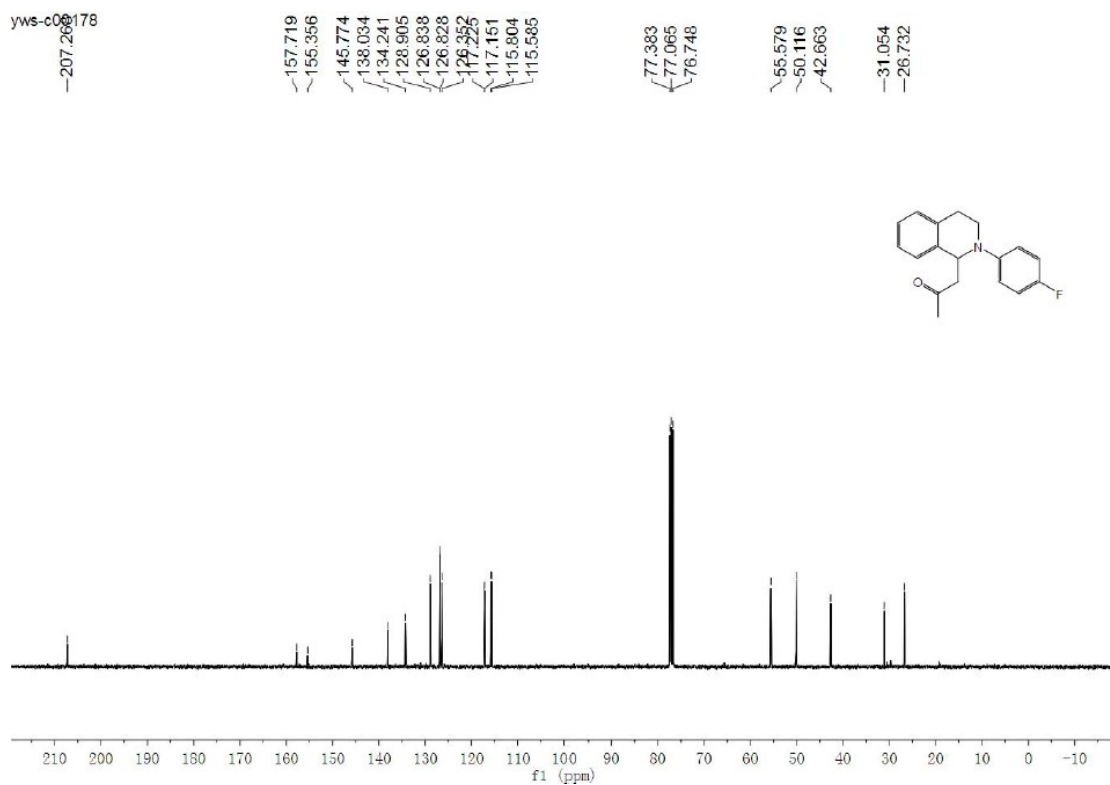
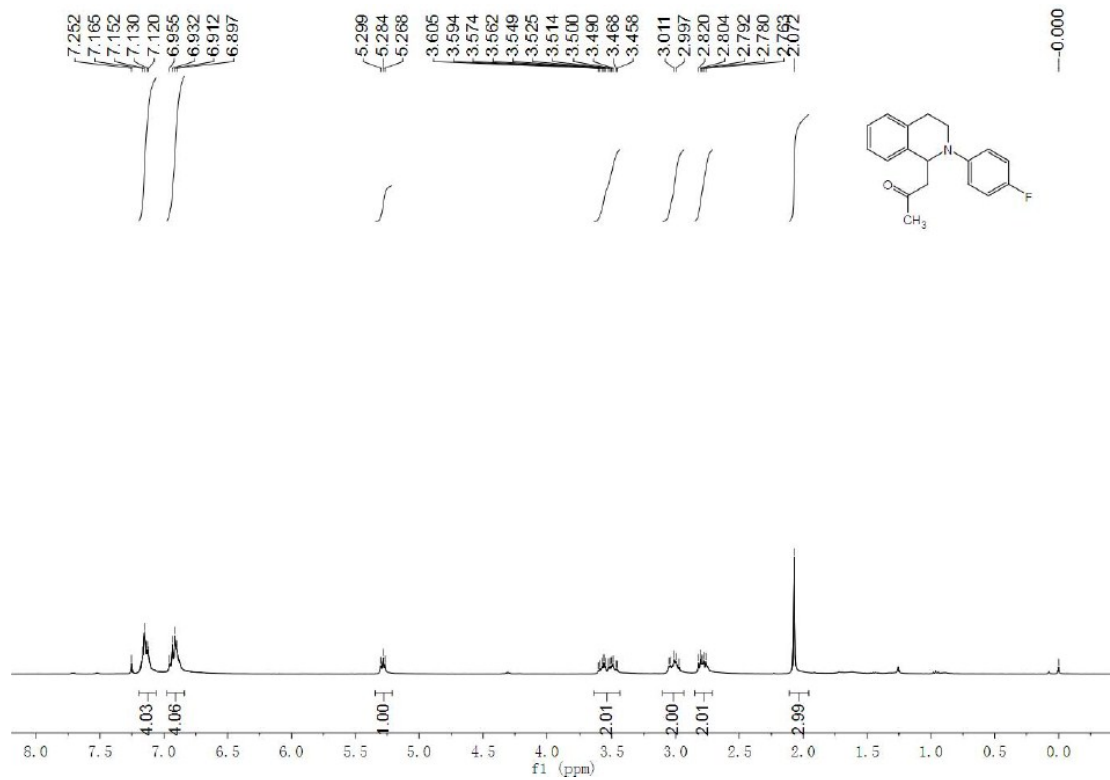
¹H NMR and ¹³C NMR spectra of compound **3q**



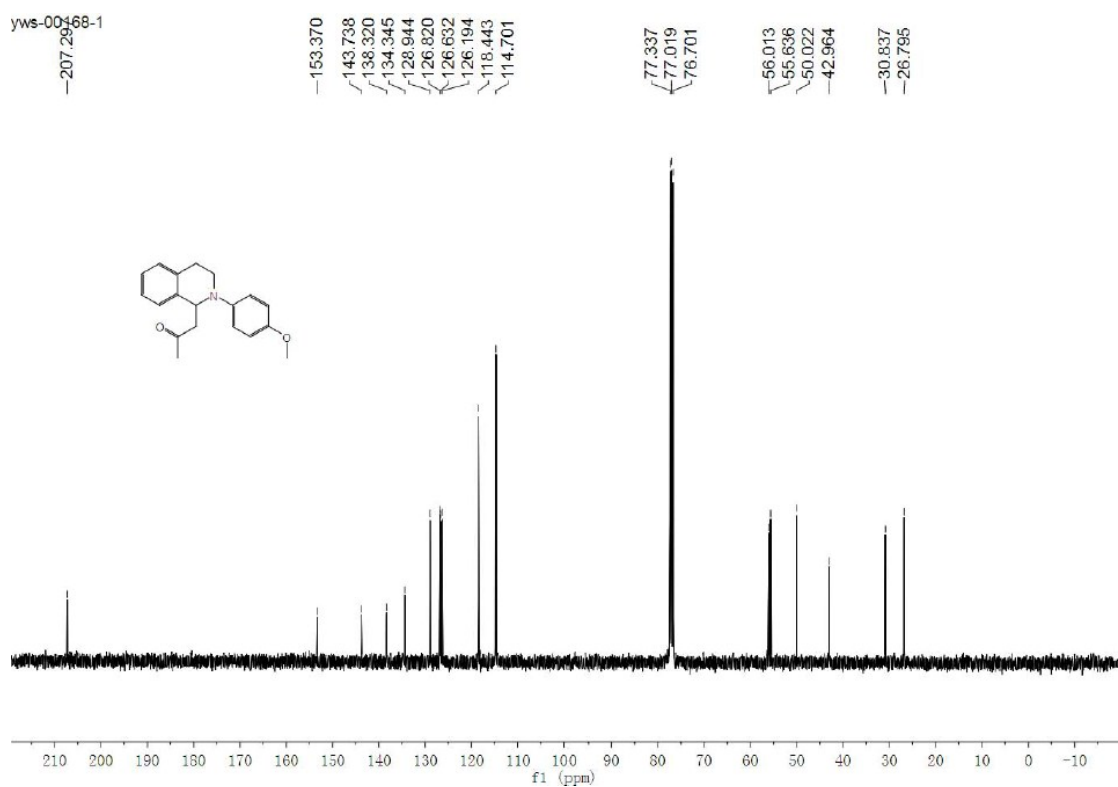
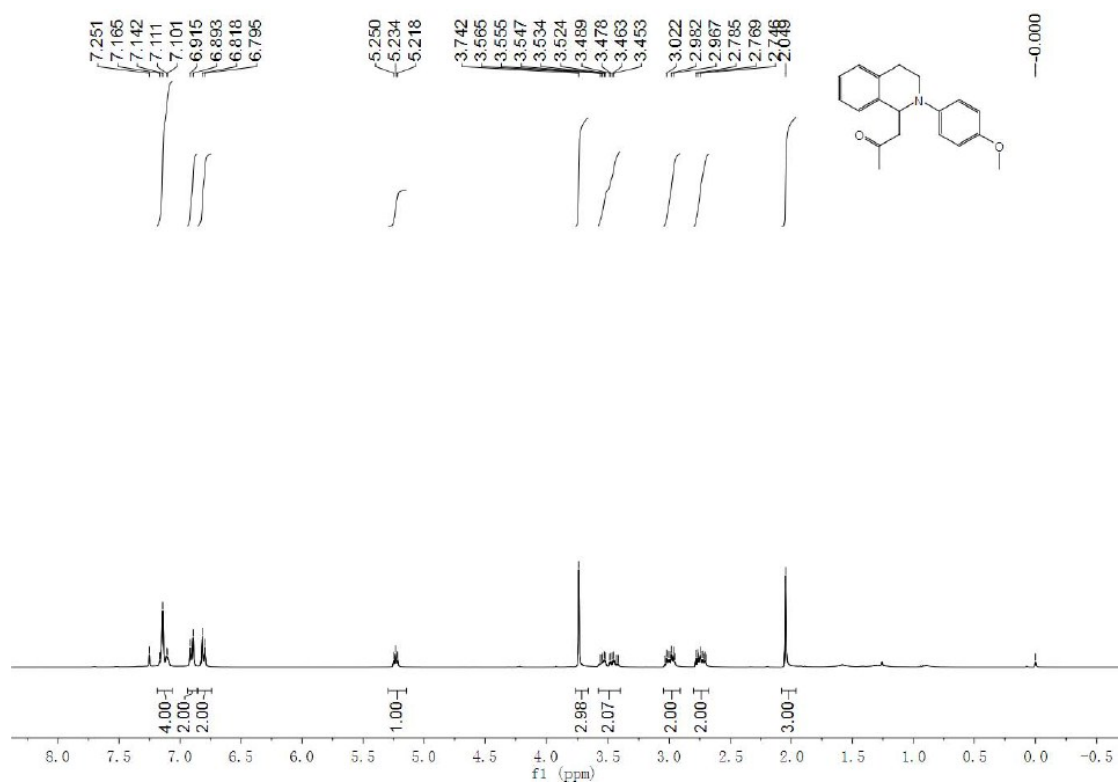
¹H NMR and ¹³C NMR spectra of compound 3r



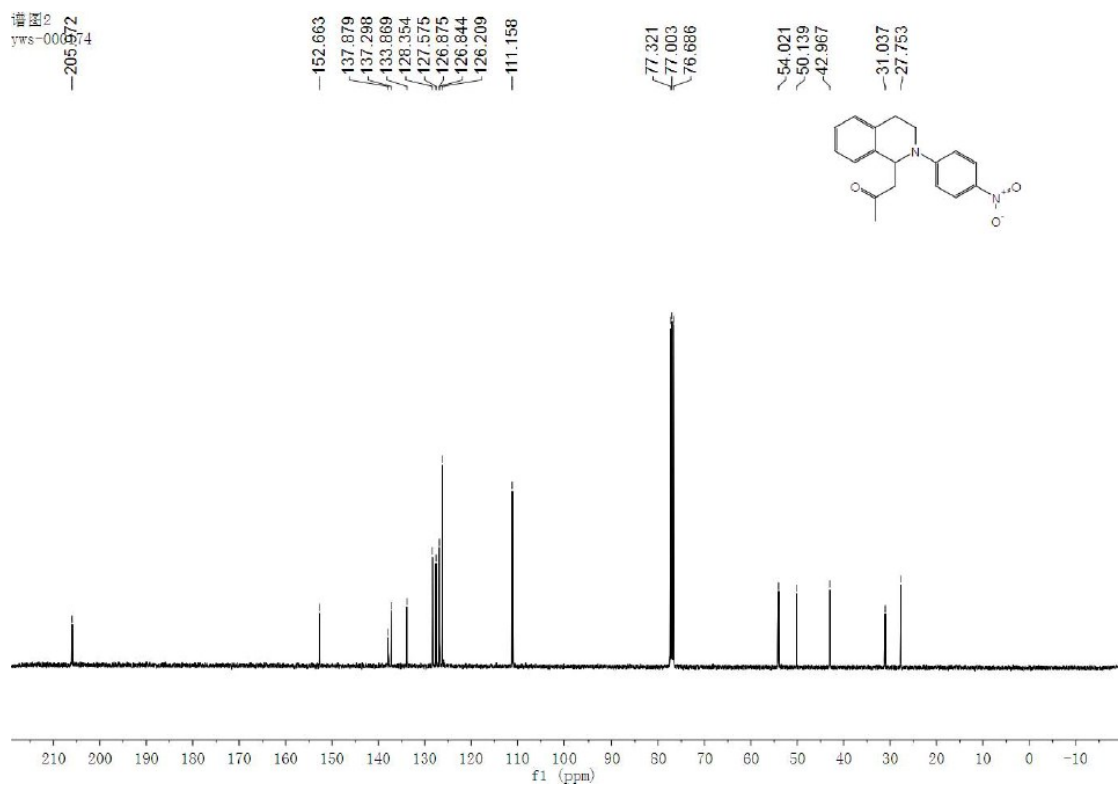
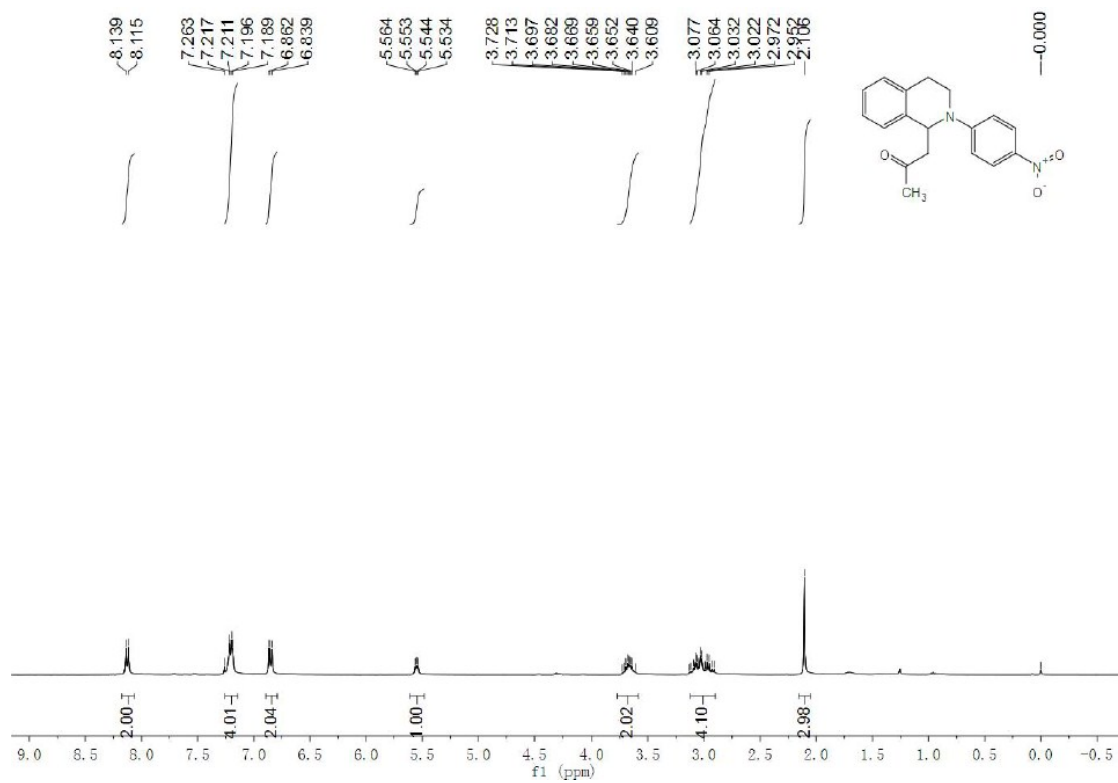
¹H NMR and ¹³C NMR spectra of compound 3s



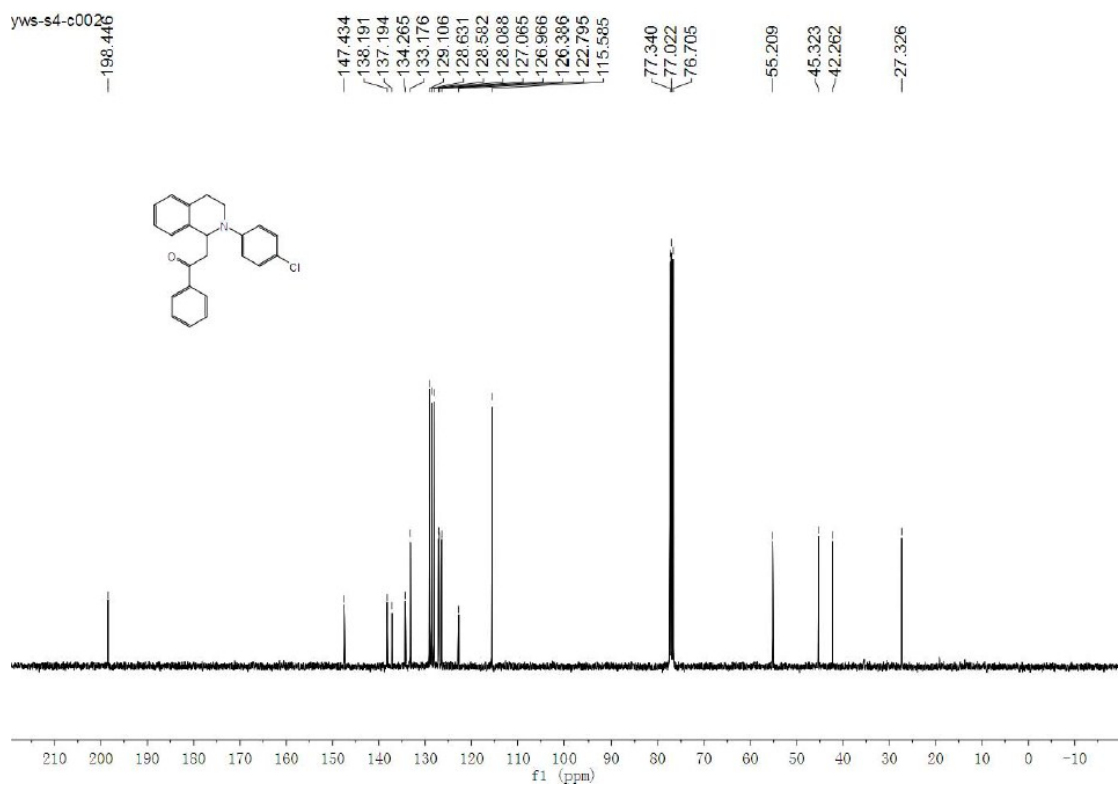
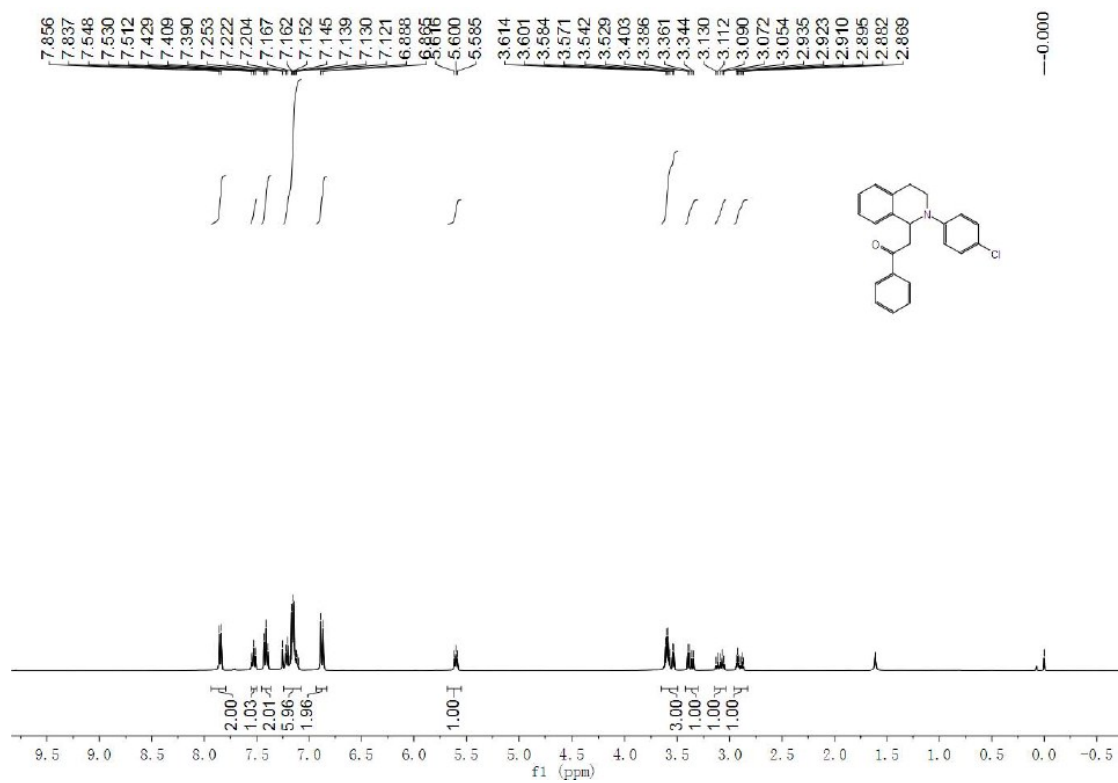
¹H NMR and ¹³C NMR spectra of compound 3t



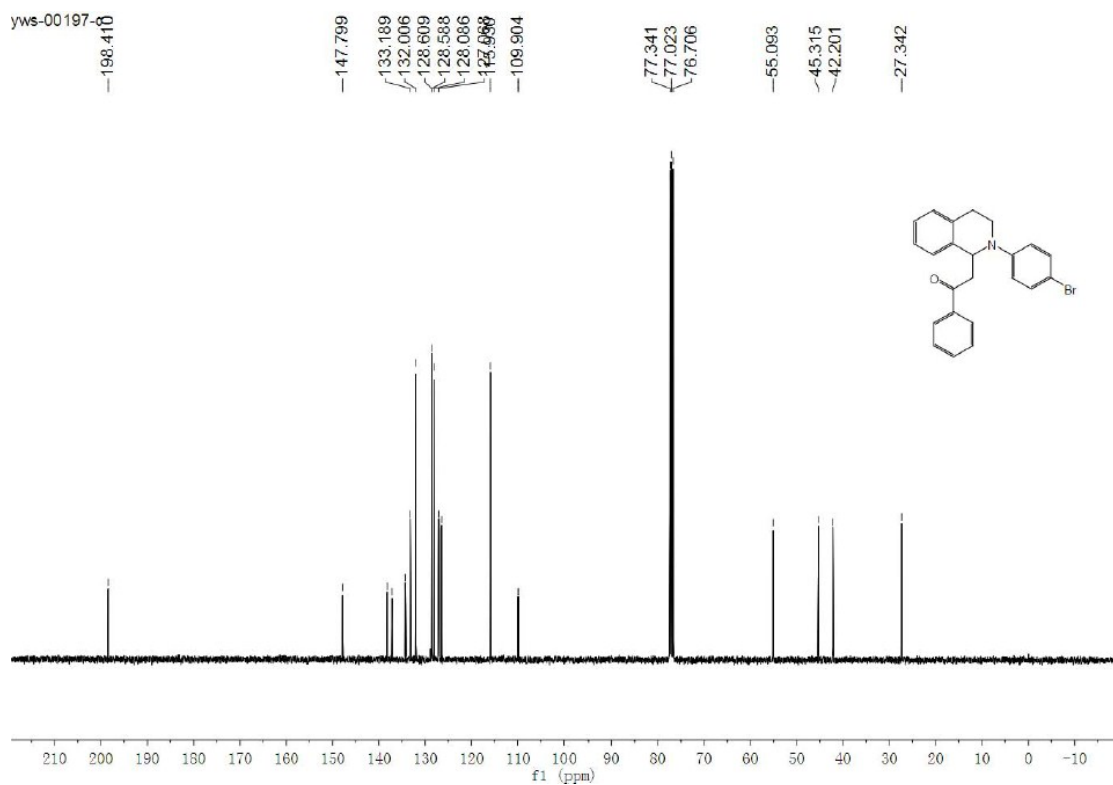
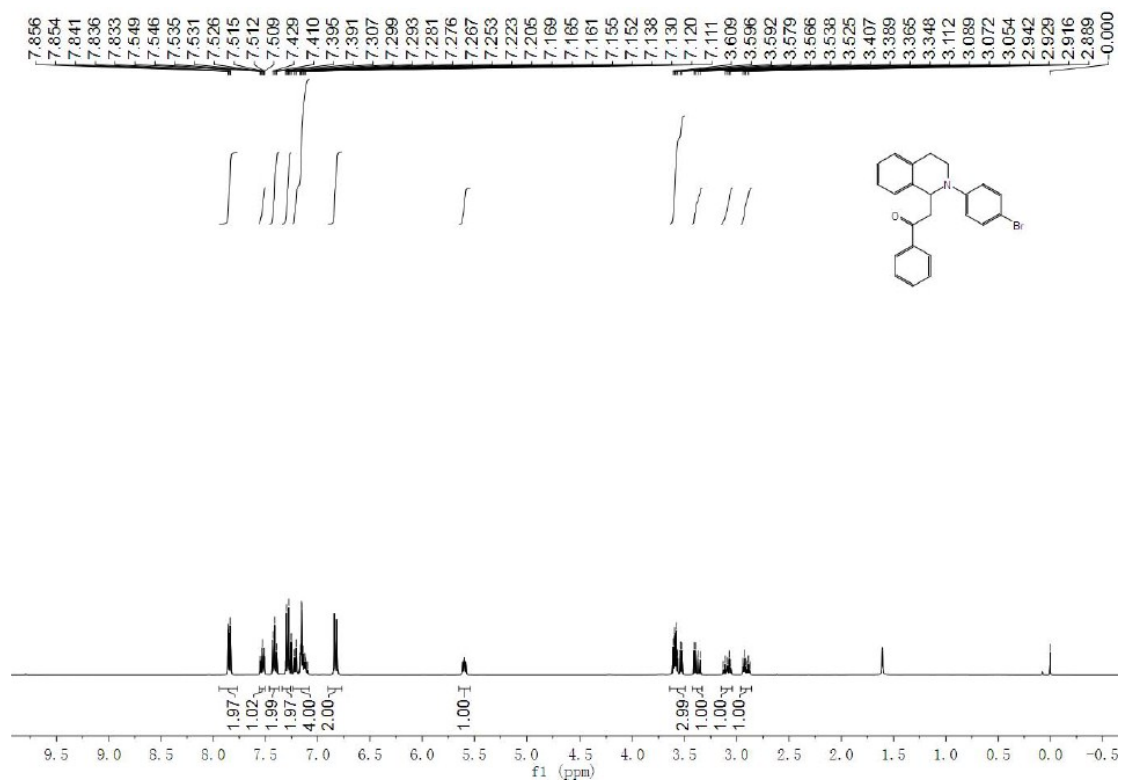
¹H NMR and ¹³C NMR spectra of compound **3u**



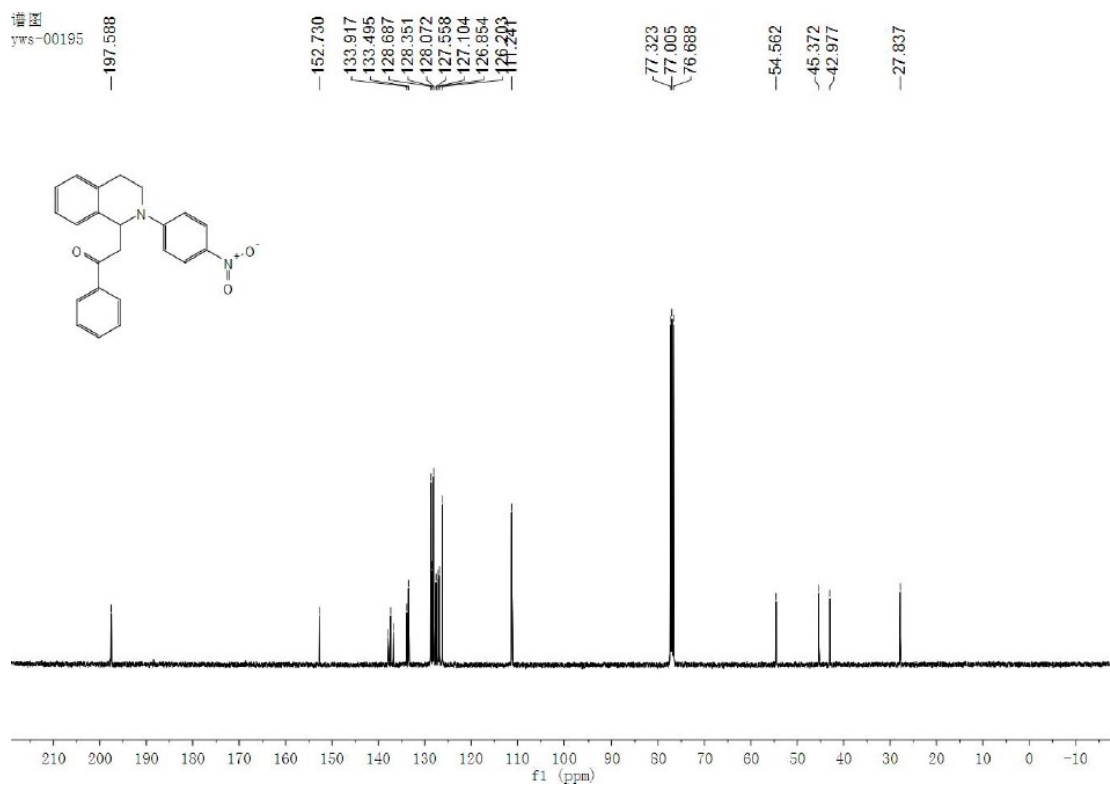
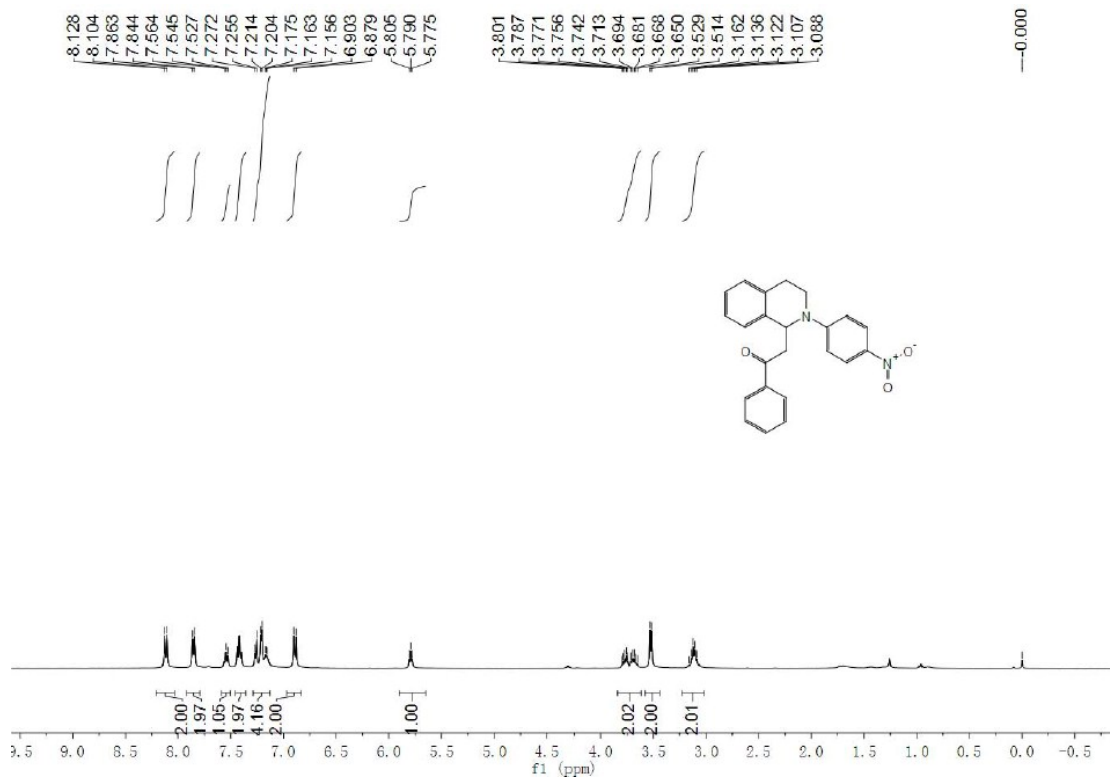
¹H NMR and ¹³C NMR spectra of compound **3v**



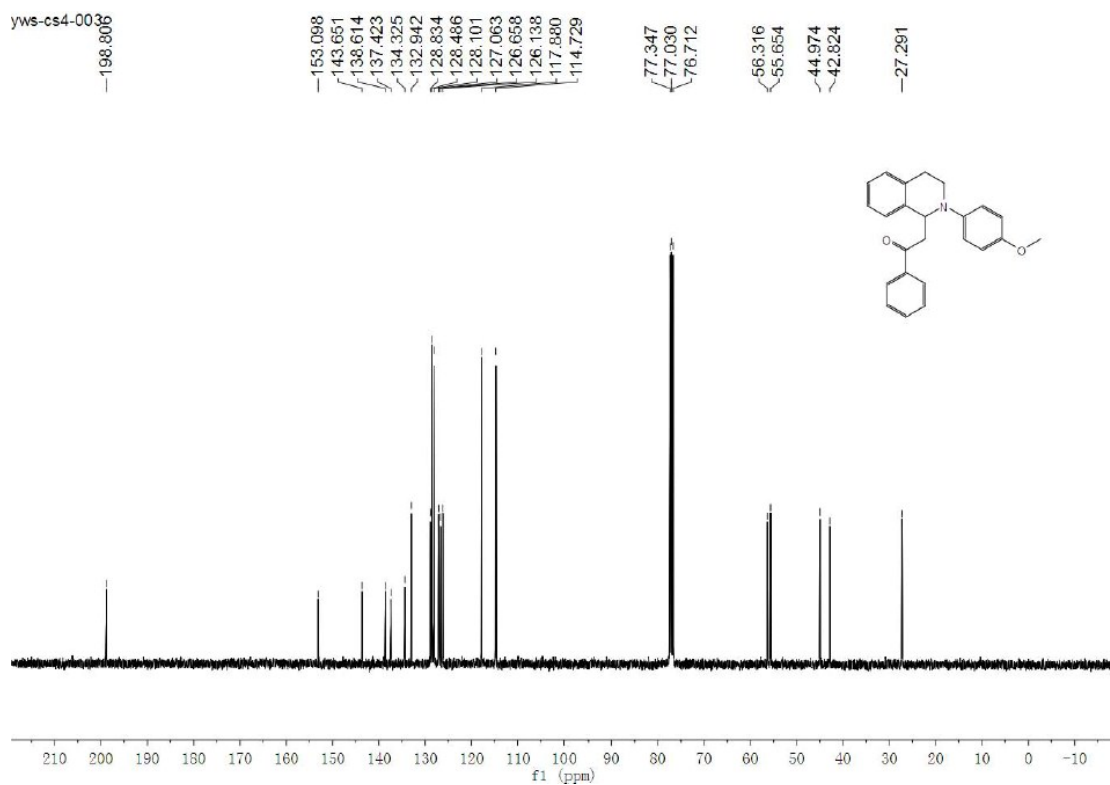
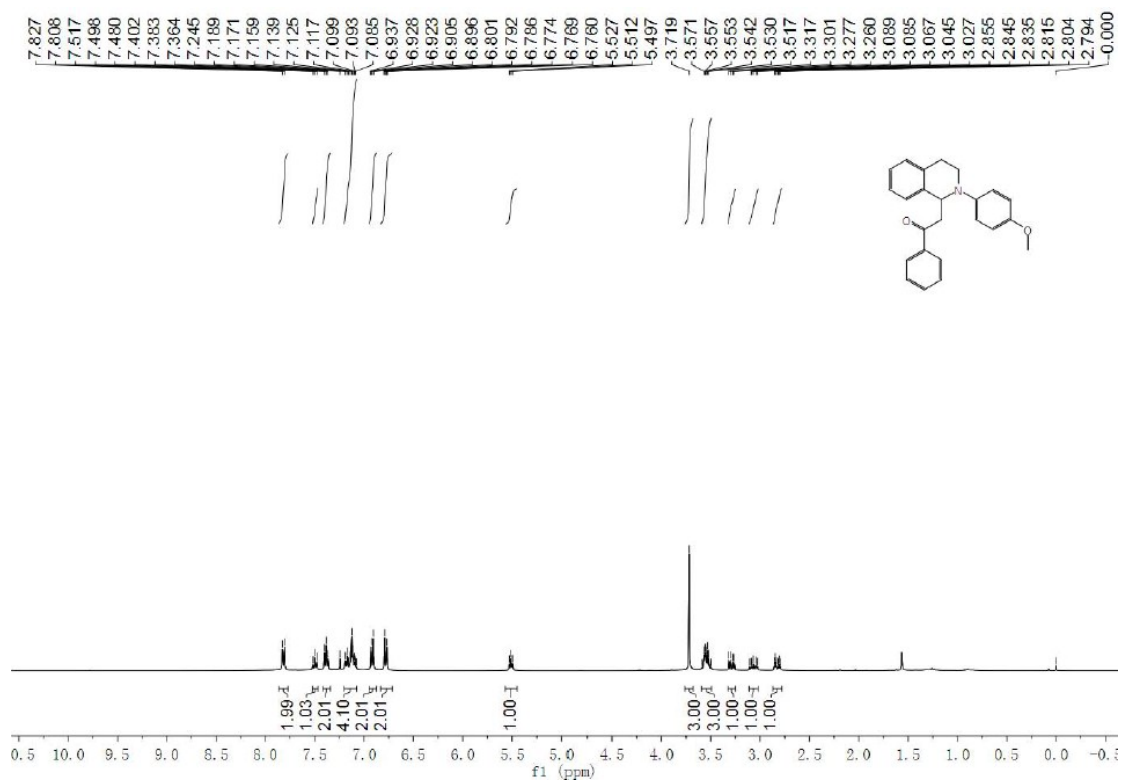
¹H NMR and ¹³C NMR spectra of compound **3w**



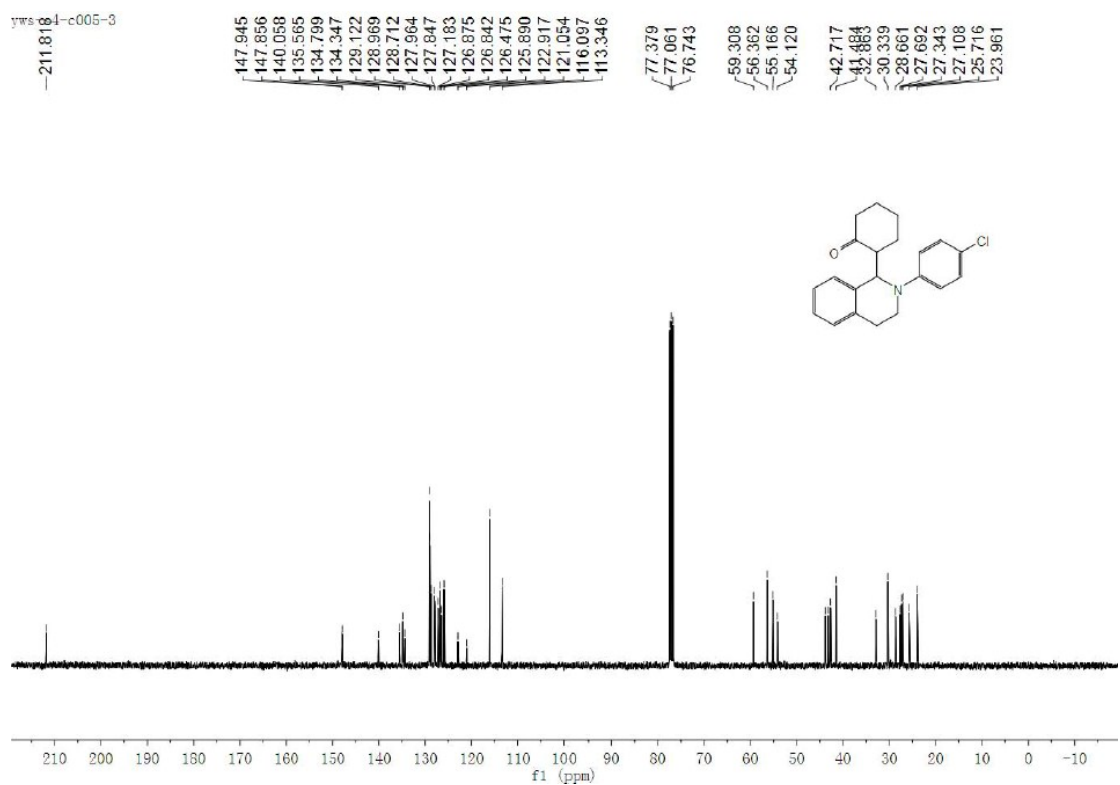
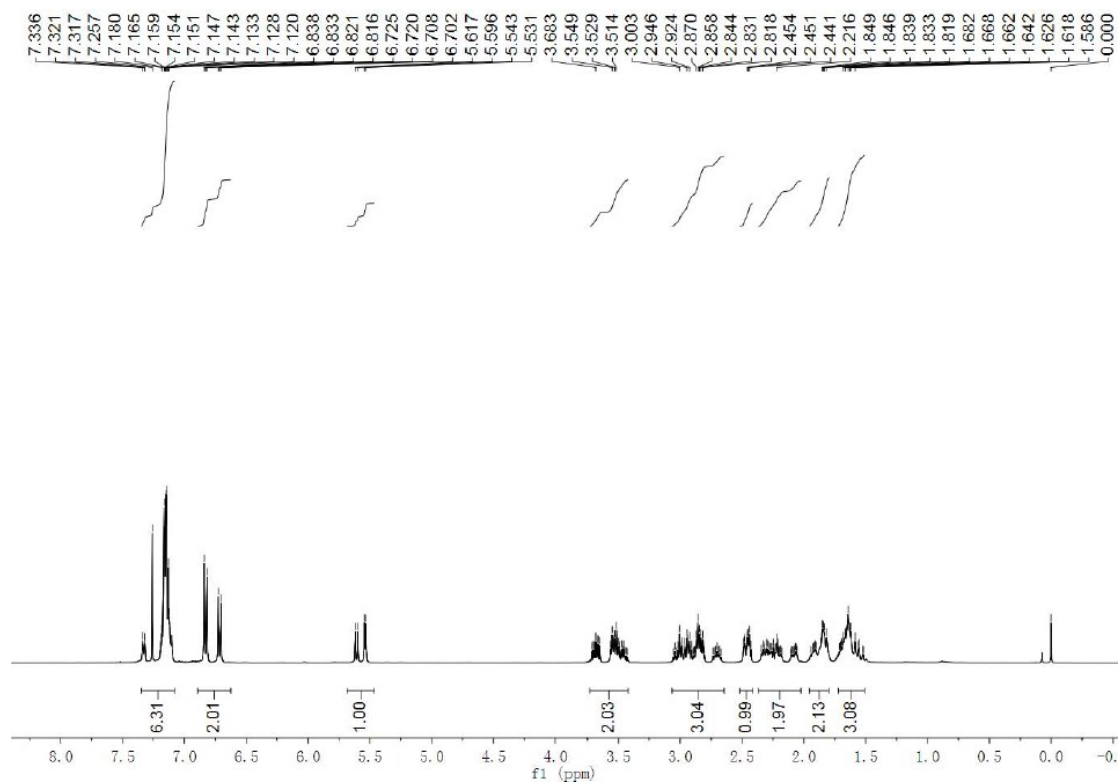
^1H NMR and ^{13}C NMR spectra of compound 3x



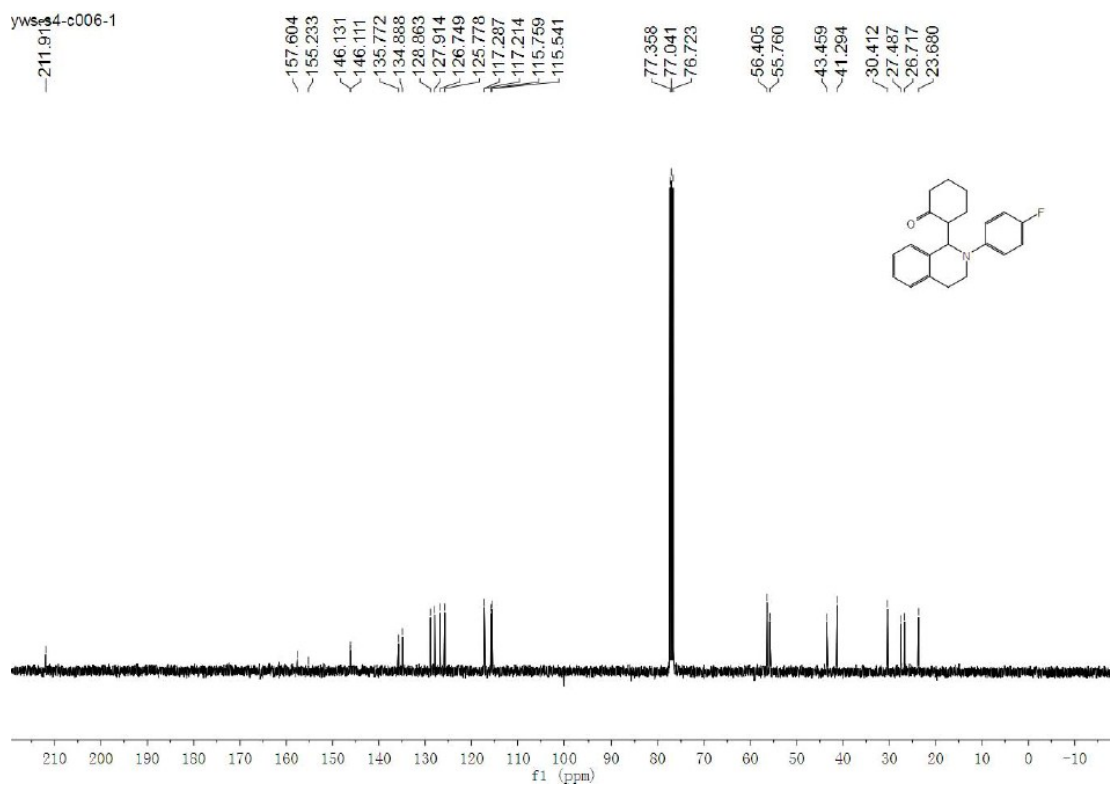
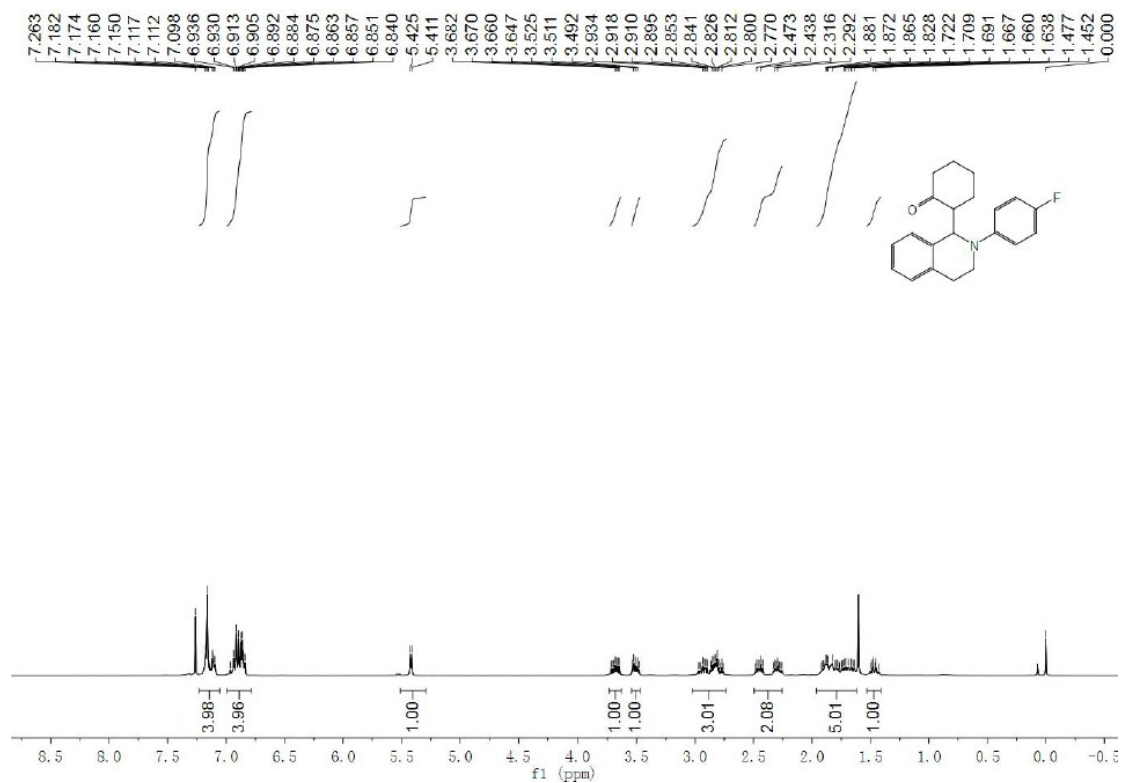
¹H NMR and ¹³C NMR spectra of compound **3y**



^1H NMR and ^{13}C NMR spectra of compound **3z**



¹H NMR and ¹³C NMR spectra of compound 3a'



¹H NMR and ¹³C NMR spectra of compound 3b'