

Supplementary Materials

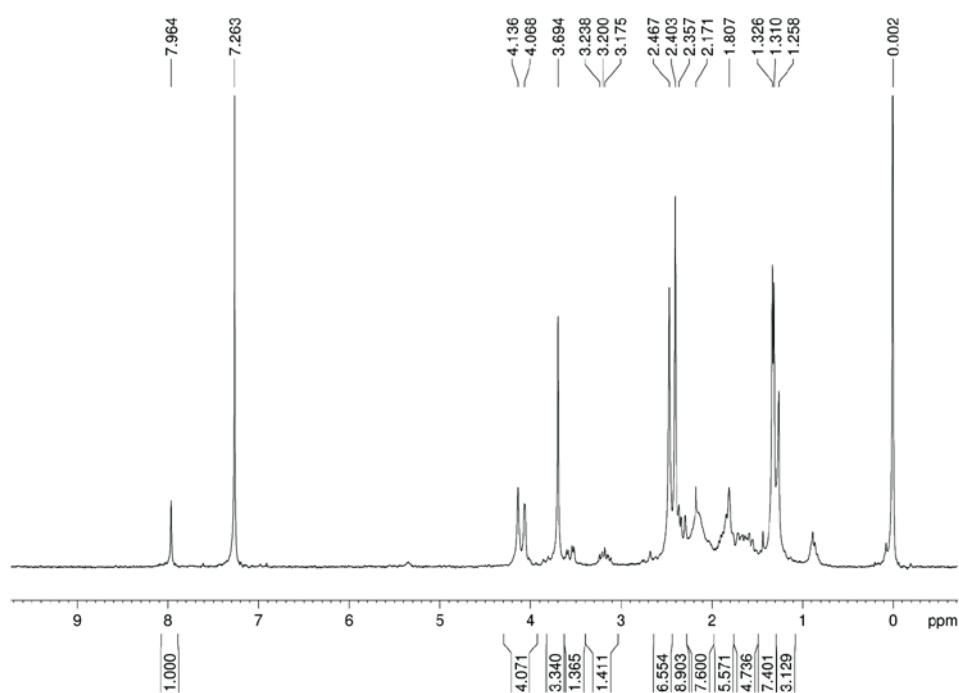


Figure S1. ^1H -NMR spectrum of compound **4a** (300 MHz, CDCl_3)

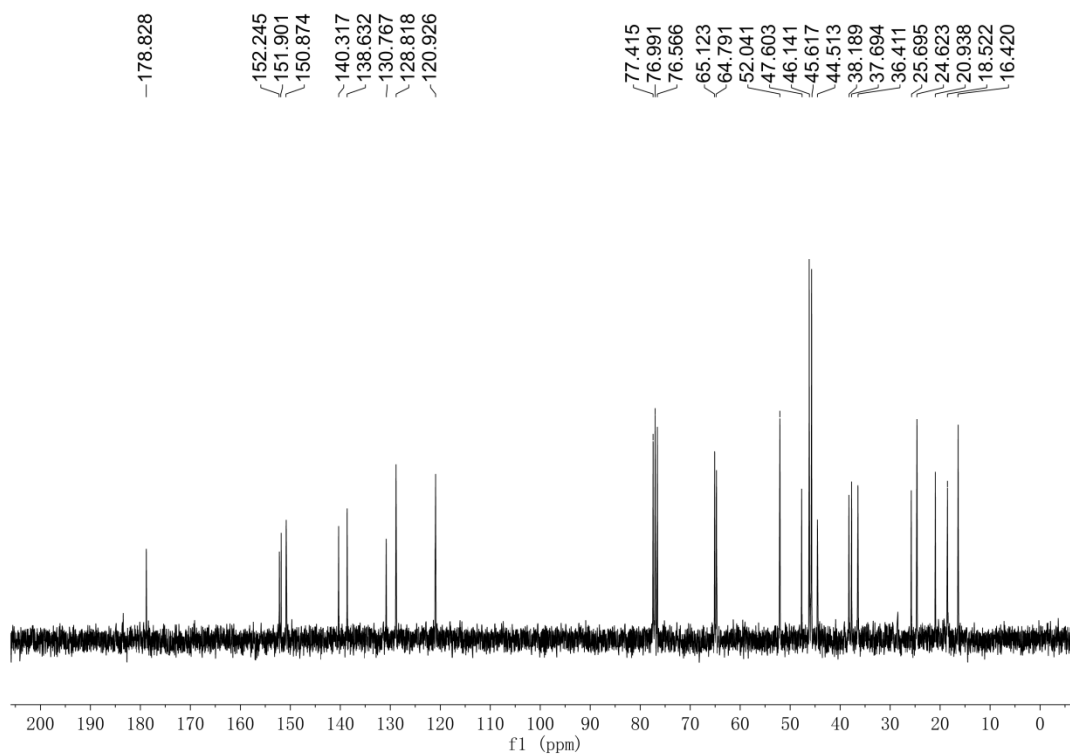


Figure S1. ^{13}C -NMR spectrum of compound **4a** (75 MHz, CDCl_3)

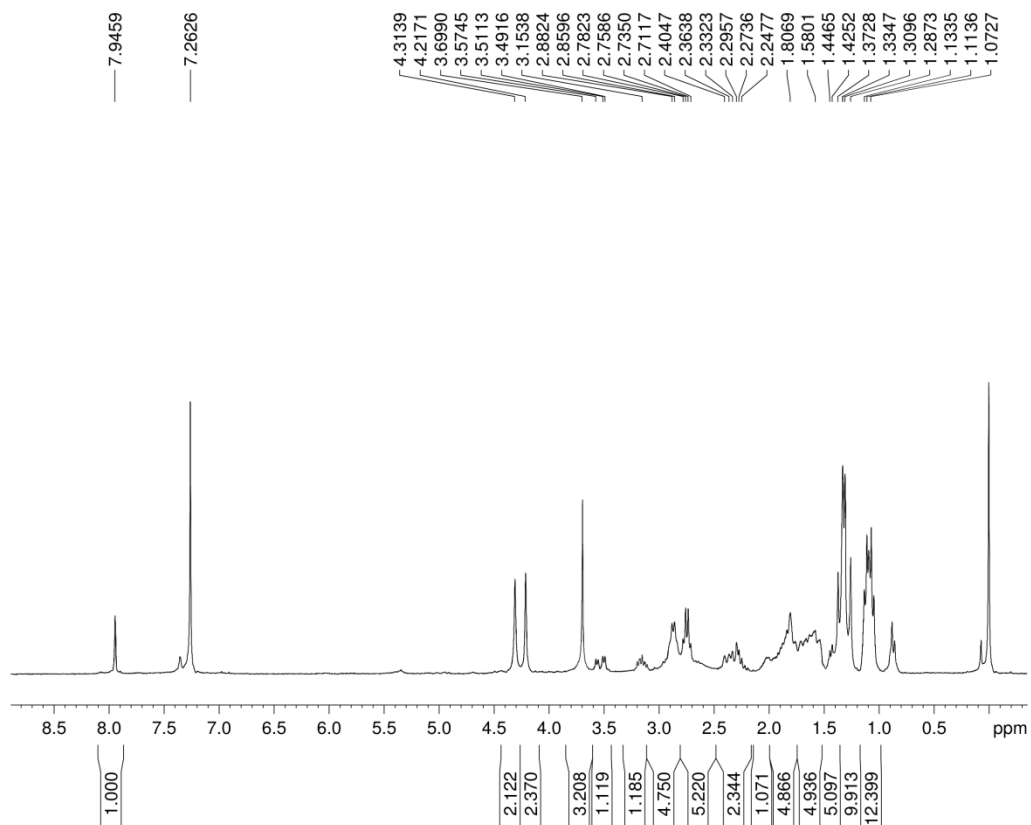


Figure S3. ^1H -NMR spectrum of compound **4b** (300 MHz, CDCl_3)

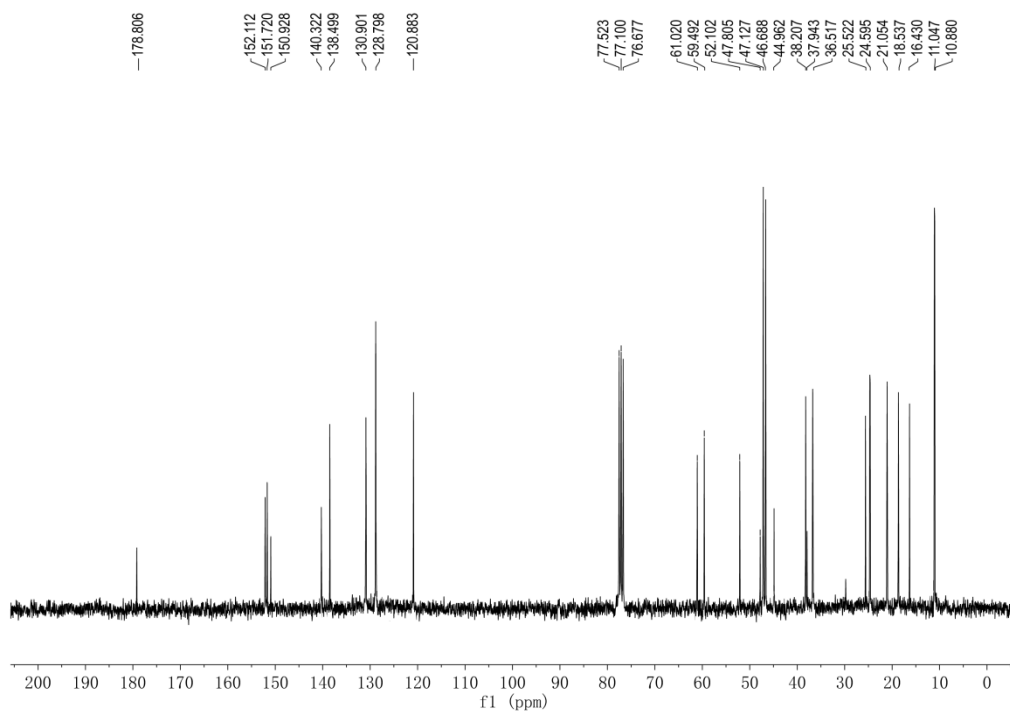


Figure S4. ^{13}C -NMR spectrum of compound **4b** (75 MHz, CDCl_3)

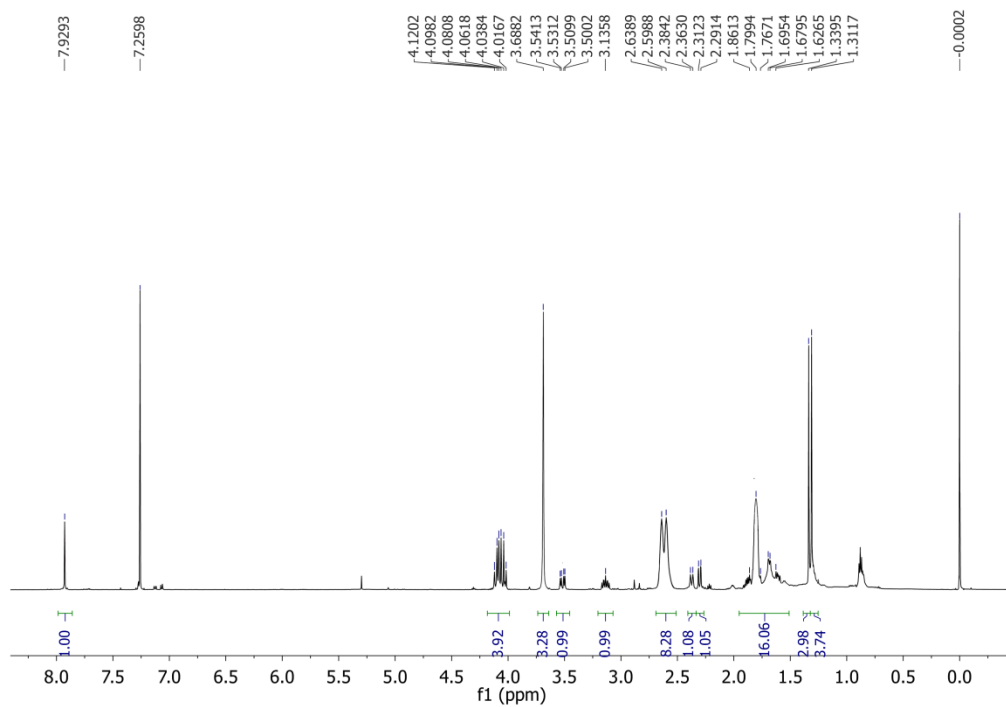


Figure S5. $^1\text{H-NMR}$ spectrum of compound **4e** (600 MHz, CDCl_3)

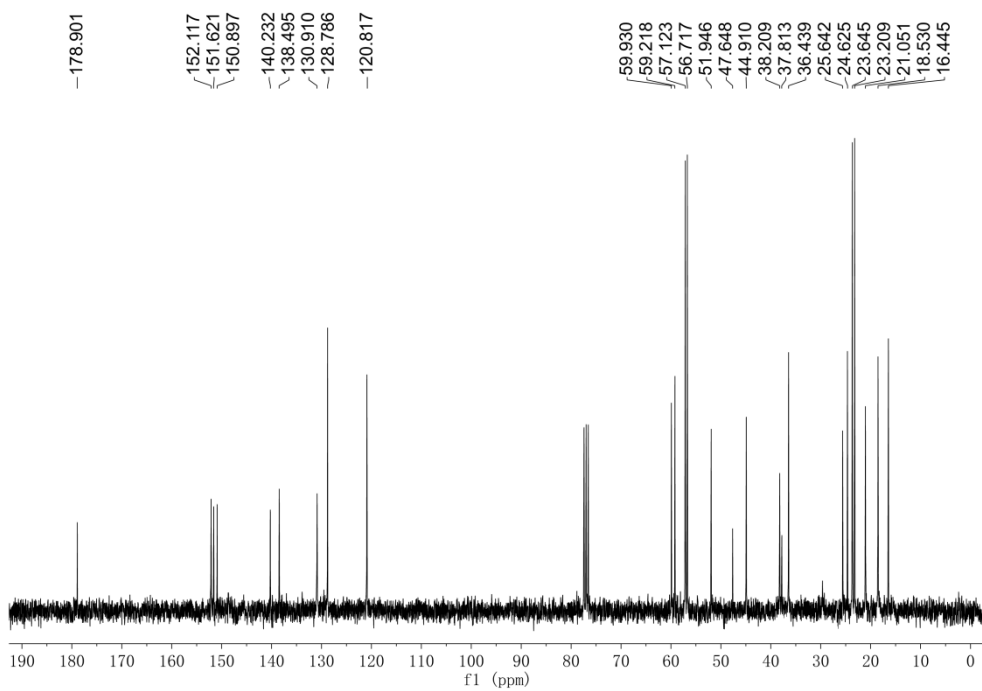


Figure S6. $^{13}\text{C-NMR}$ spectrum of compound **4e** (75 MHz, CDCl_3)

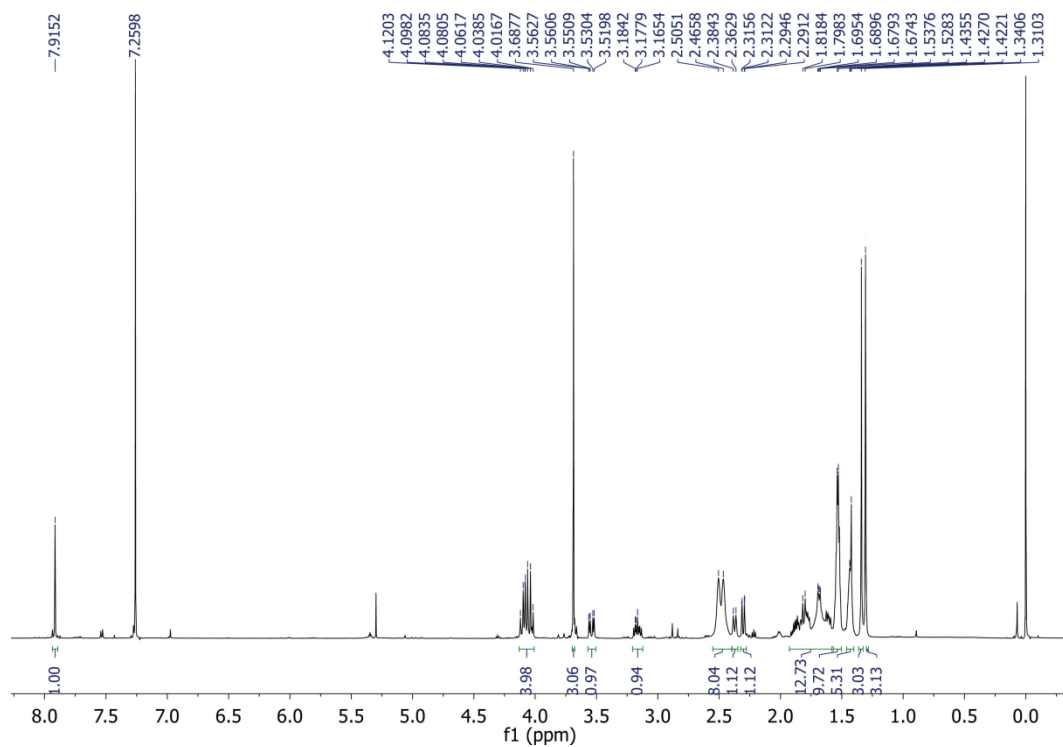


Figure S7. $^1\text{H-NMR}$ spectrum of compound **4f** (600 MHz, CDCl_3)

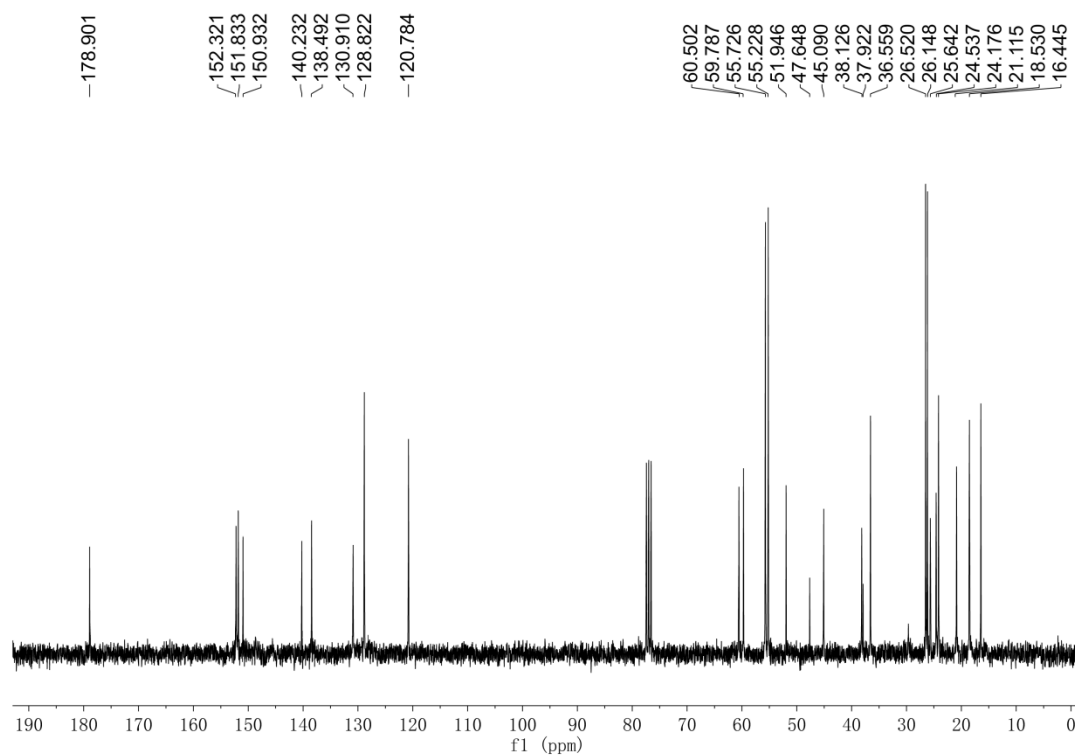


Figure S8. $^{13}\text{C-NMR}$ spectrum of compound **4f** (75 MHz, CDCl_3)

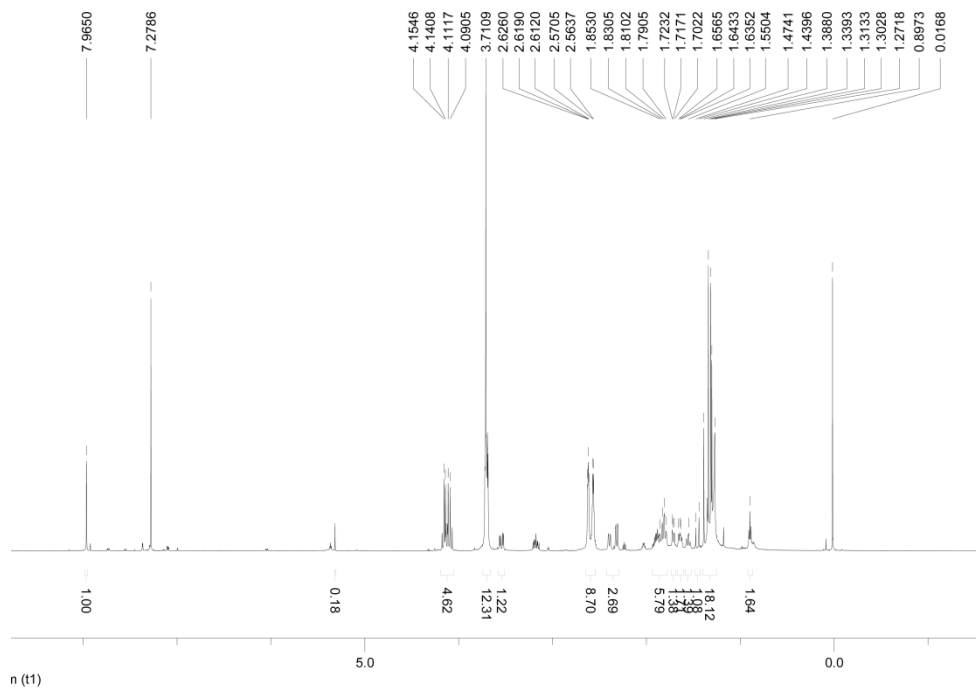


Figure S9. ^1H -NMR spectrum of compound **4h** (600 MHz, CDCl_3)

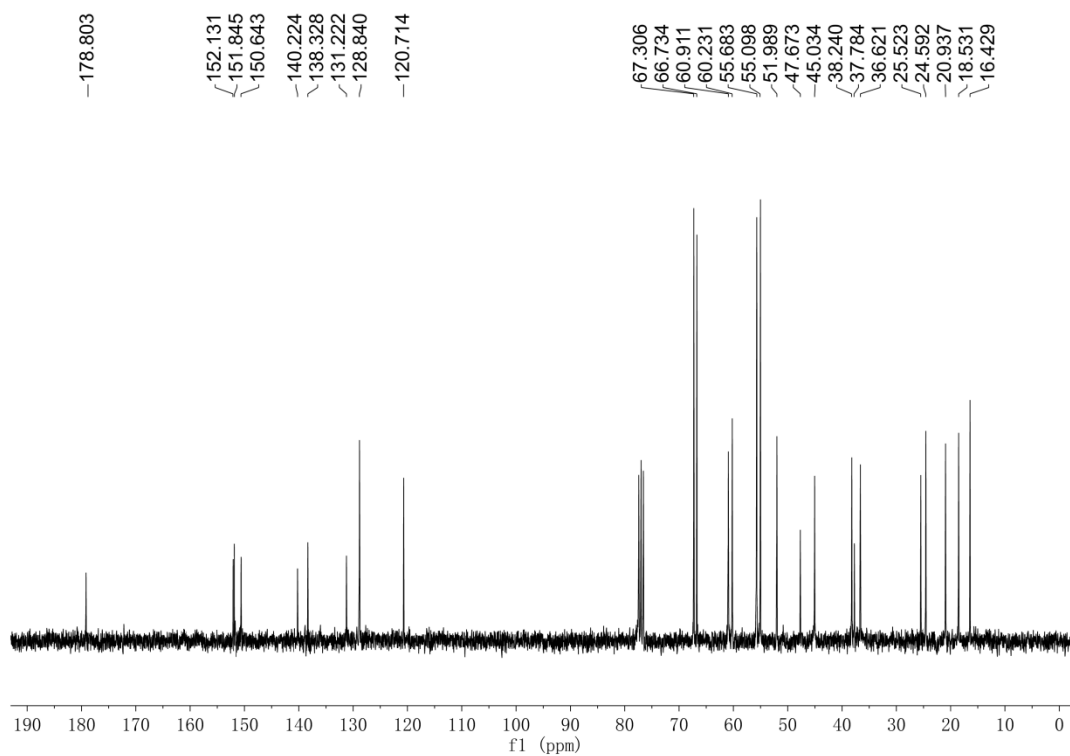


Figure S10. ^{13}C -NMR spectrum of compound **4h** (75 MHz, CDCl_3)

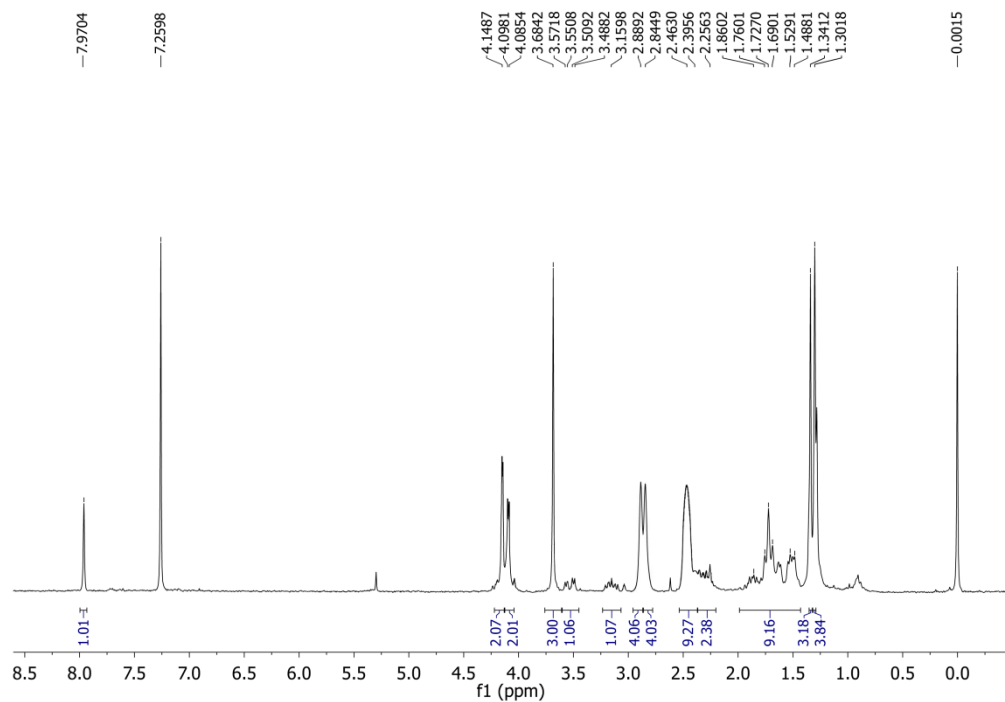


Figure S11. ^1H -NMR spectrum of compound **4i** (300 MHz, CDCl_3)

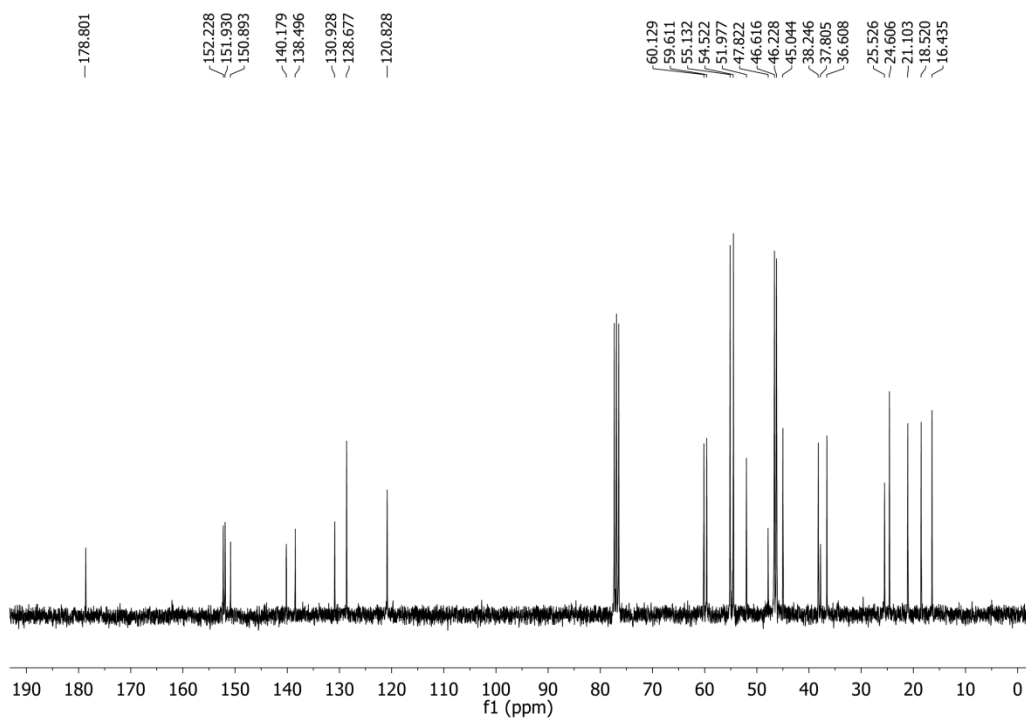


Figure S12. ^{13}C -NMR spectrum of compound **4i** (75 MHz, CDCl_3)

WS-N-JiaJiPaiQin 1H-NMR CDC13 303K AV-300

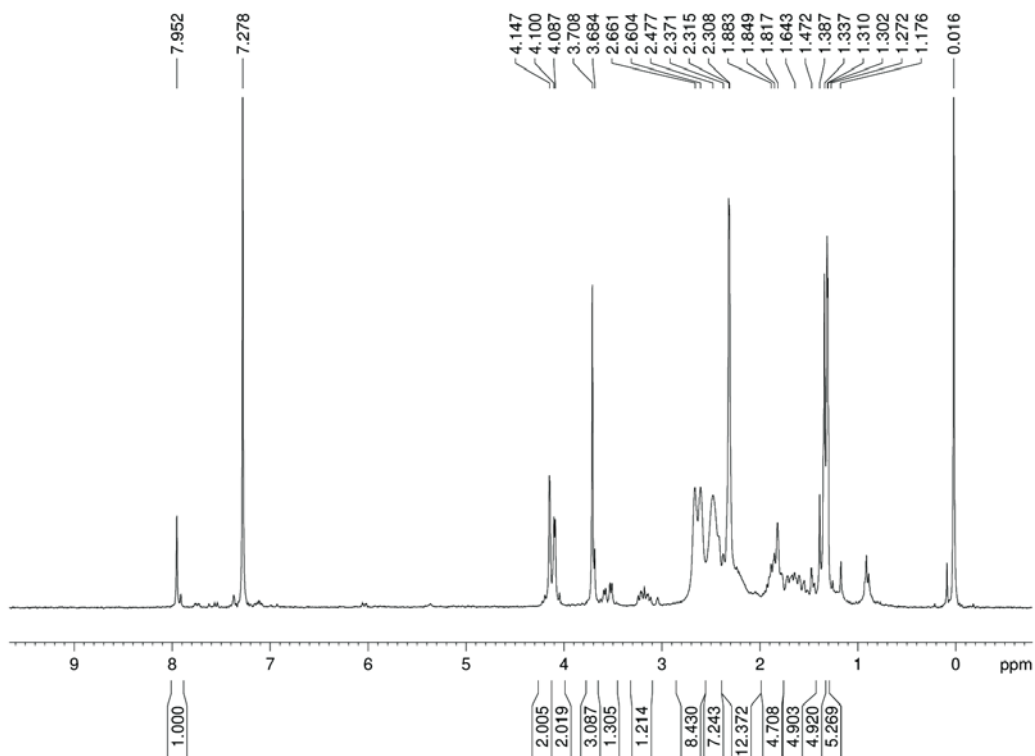


Figure S13. $^1\text{H-NMR}$ spectrum of compound **4j** (300 MHz, CDCl_3)

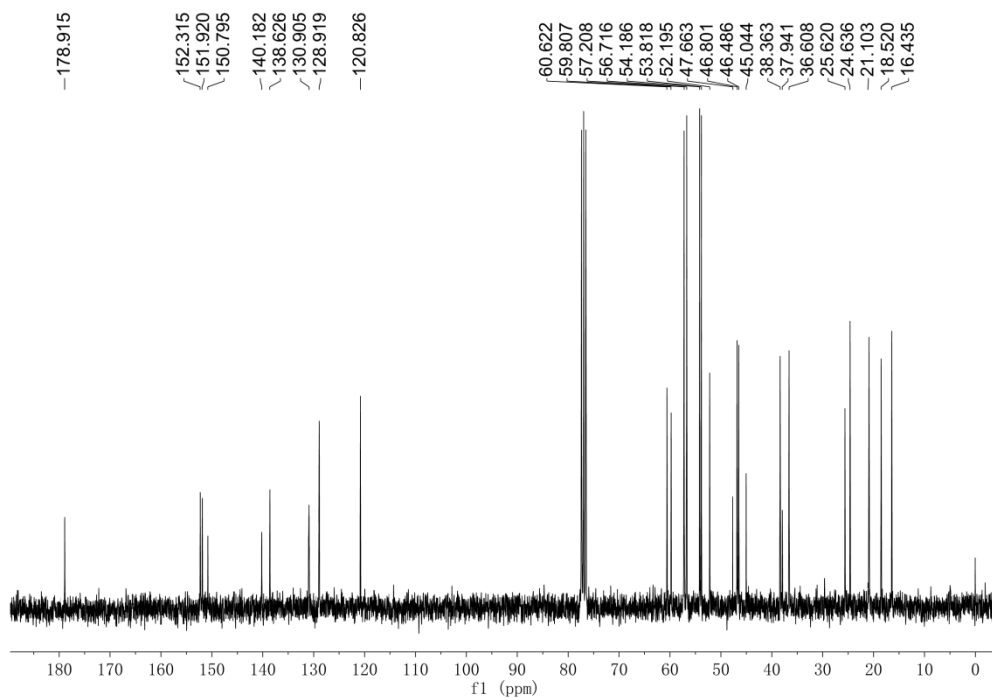


Figure S14. $^{13}\text{C-NMR}$ spectrum of compound **4j** (75 MHz, CDCl_3)

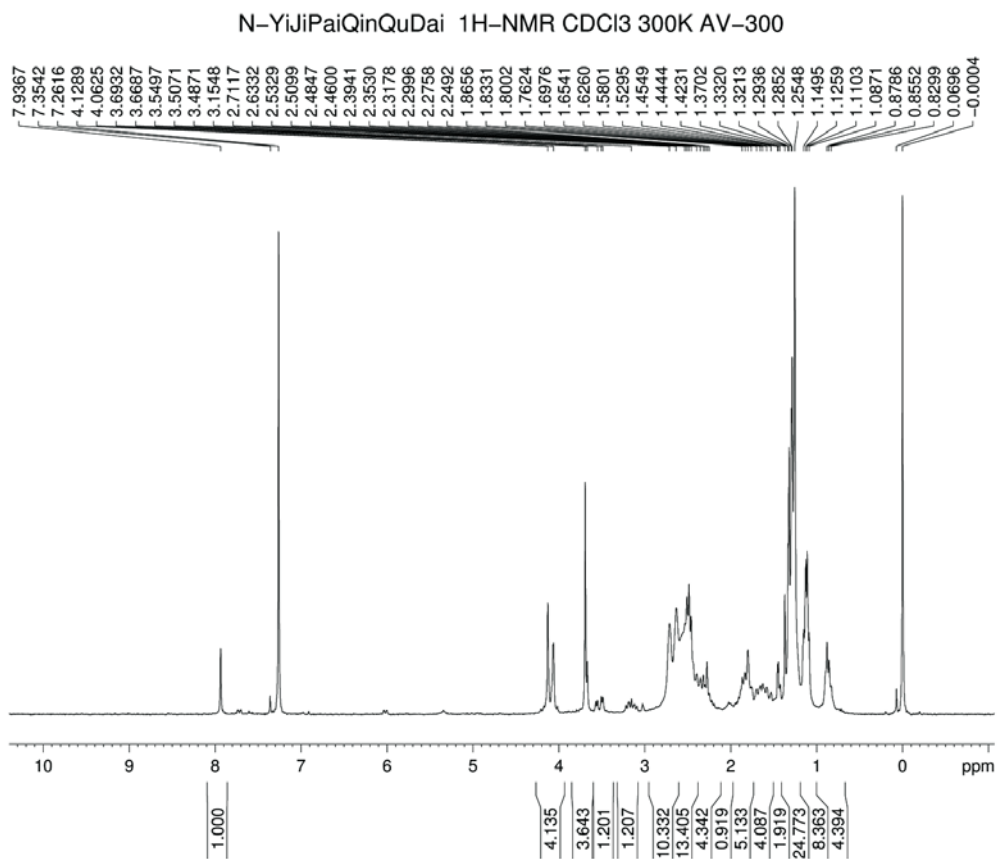


Figure S15. ¹H-NMR spectrum of compound **4k** (300 MHz, CDCl₃)

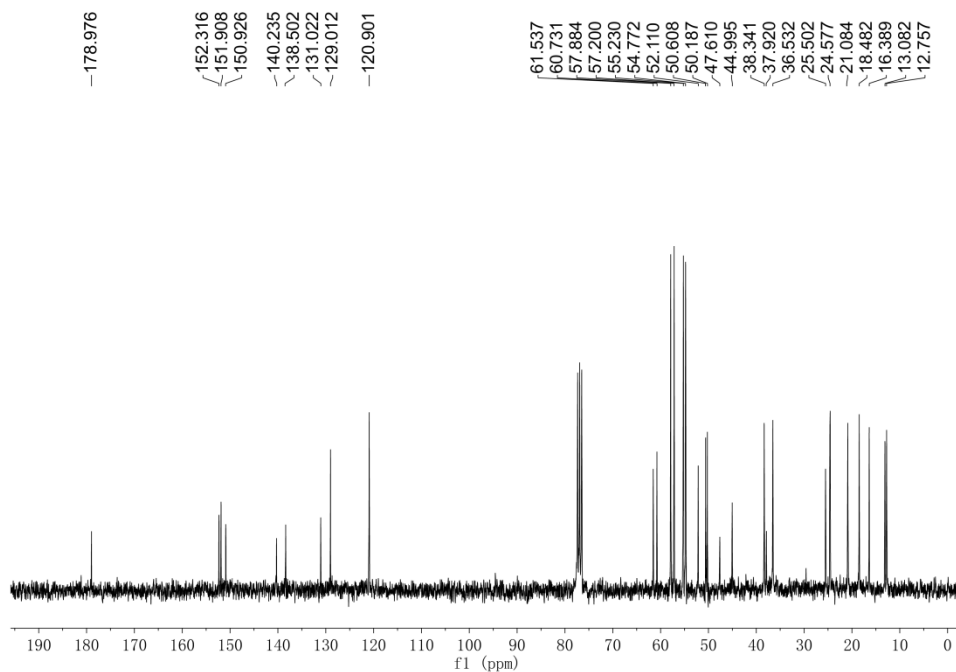


Figure S16. ¹³C-NMR spectrum of compound **4k** (75 MHz, CDCl₃)

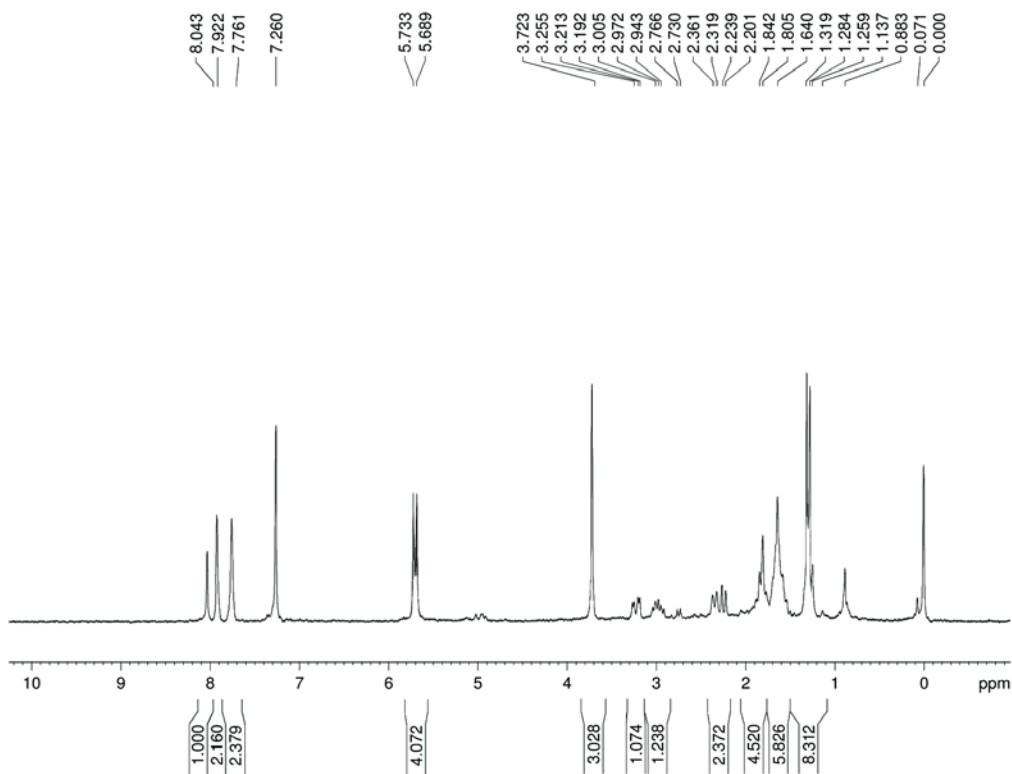


Figure S17. $^1\text{H-NMR}$ spectrum of compound **4m** (300 MHz, CDCl_3)

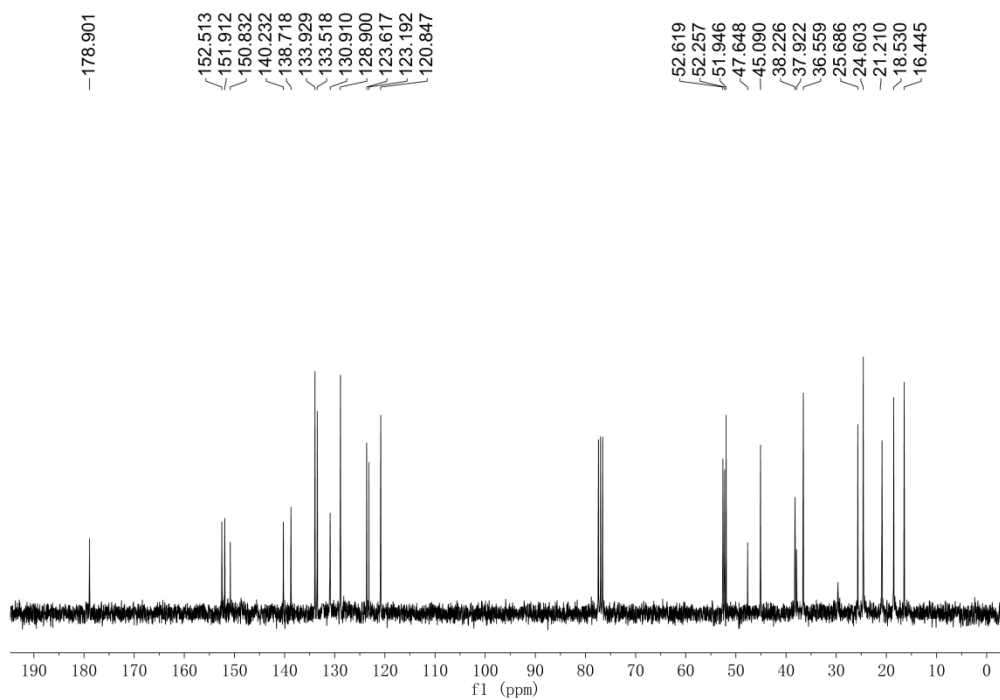


Figure S18. $^{13}\text{C-NMR}$ spectrum of compound **4m** (75 MHz, CDCl_3)

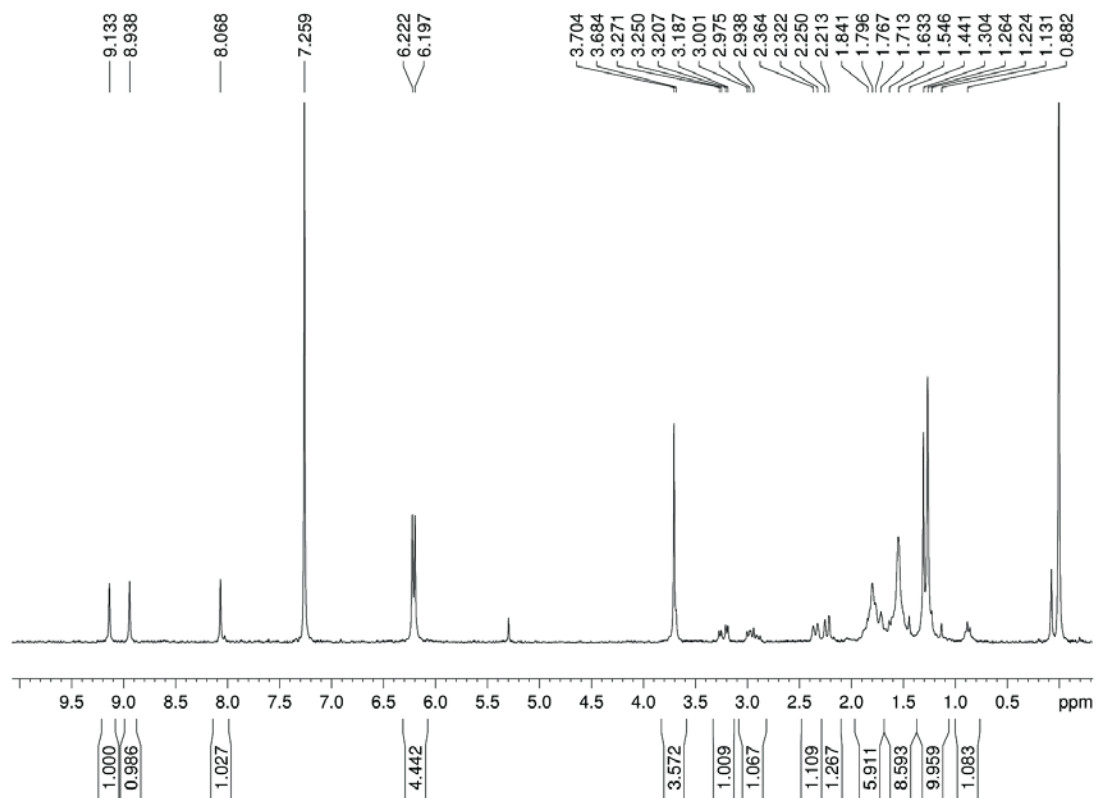


Figure S19. $^1\text{H-NMR}$ spectrum of compound **4n** (300 MHz, CDCl_3)

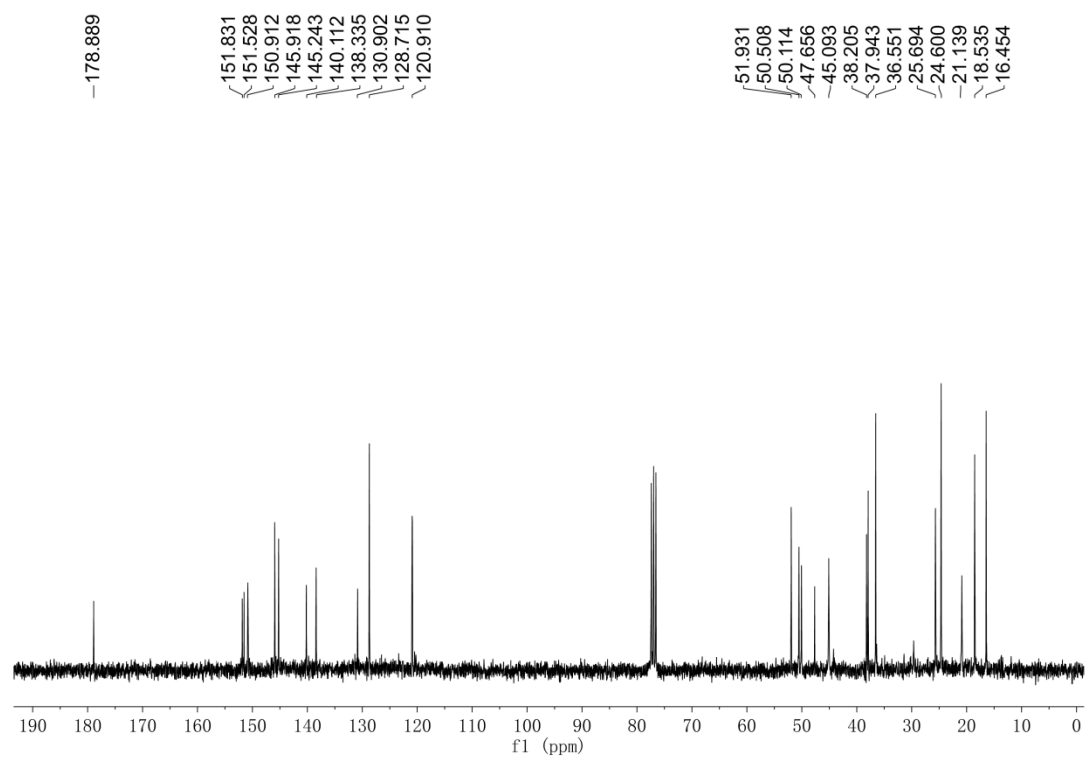


Figure S20. $^{13}\text{C-NMR}$ spectrum of compound **4n** (75 MHz, CDCl_3)

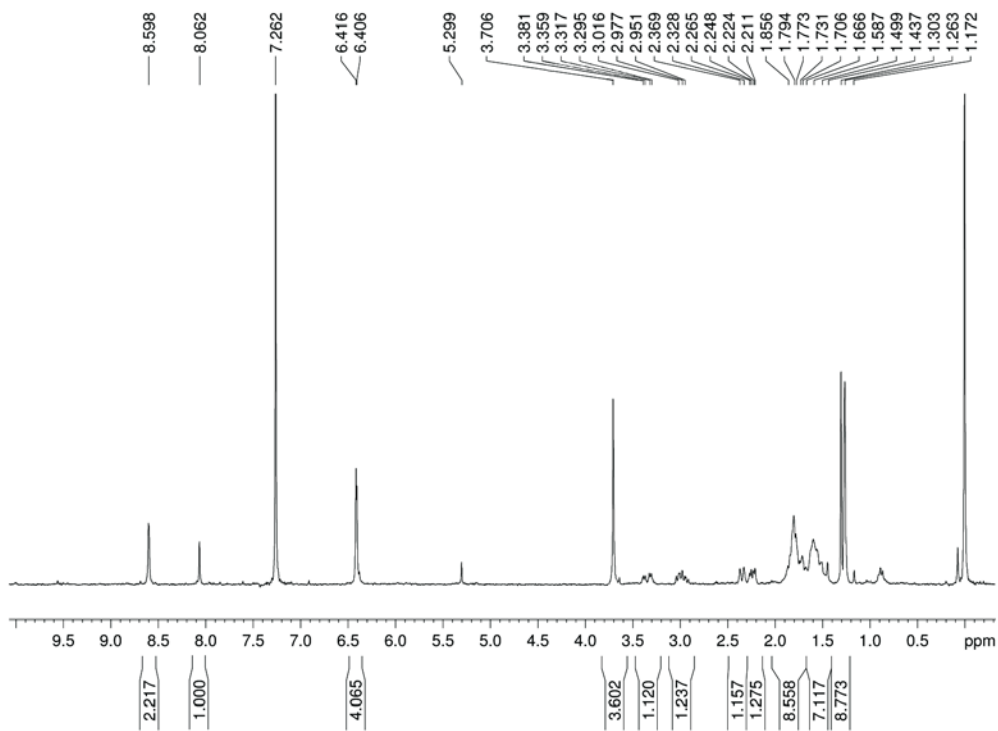


Figure S21. ^1H -NMR spectrum of compound **4o** (300 MHz, CDCl_3)

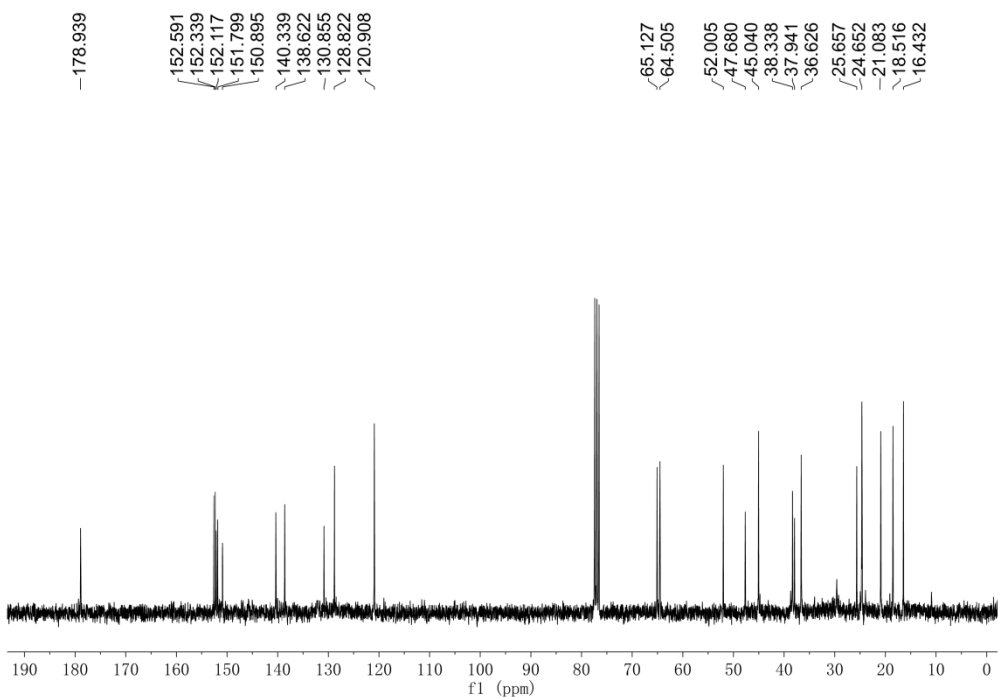


Figure S22. ^{13}C -NMR spectrum of compound **4o** (75 MHz, CDCl_3)