Supplementary Materials: Self-Supported N-Heterocyclic Carbenes and Their Use as Organocatalysts

Shuang Ma and Patrick H. Toy

Contents

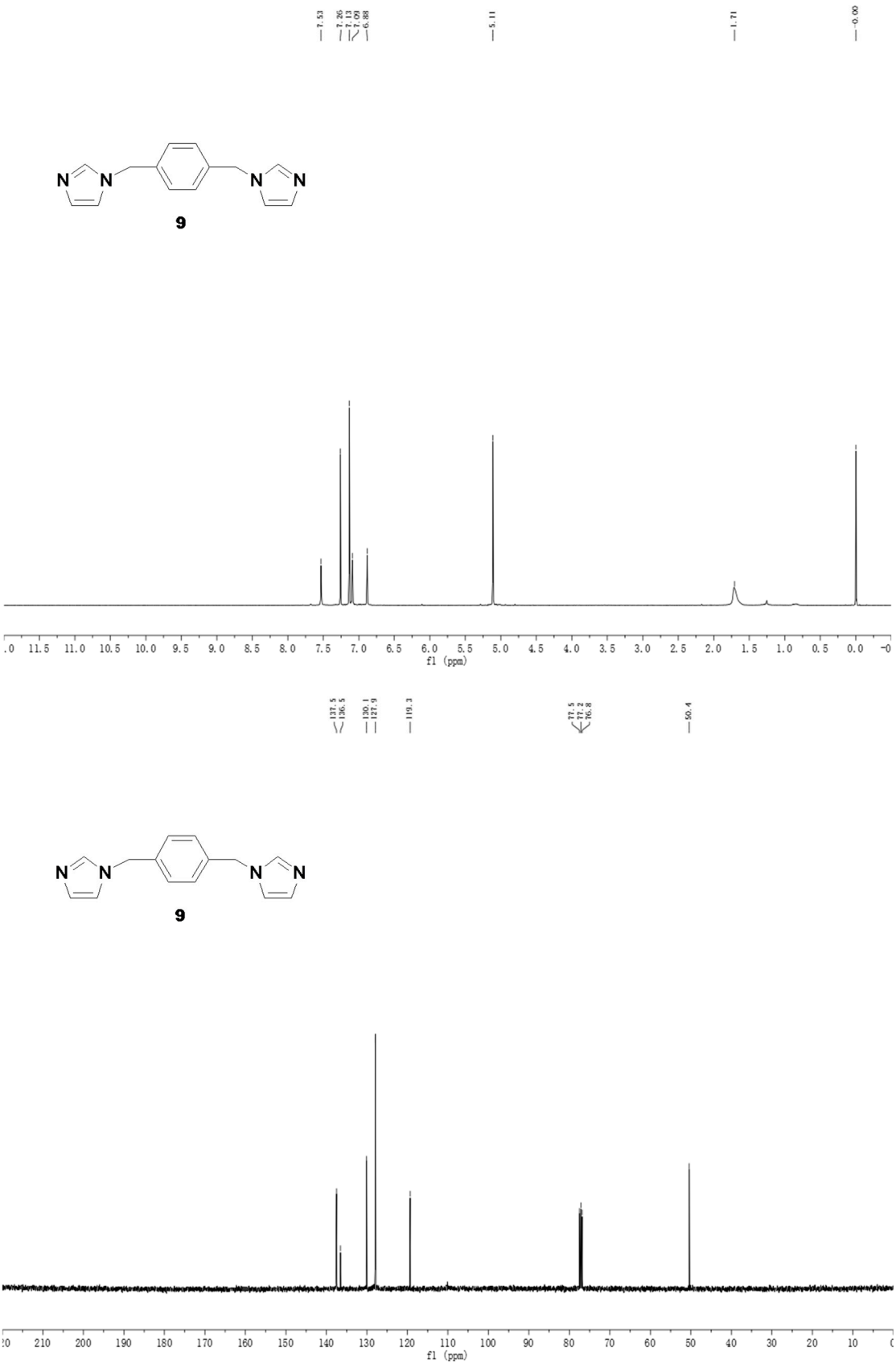

Figure S1. ^{1}H- and ^{13}C-NMR spectra for **9**.

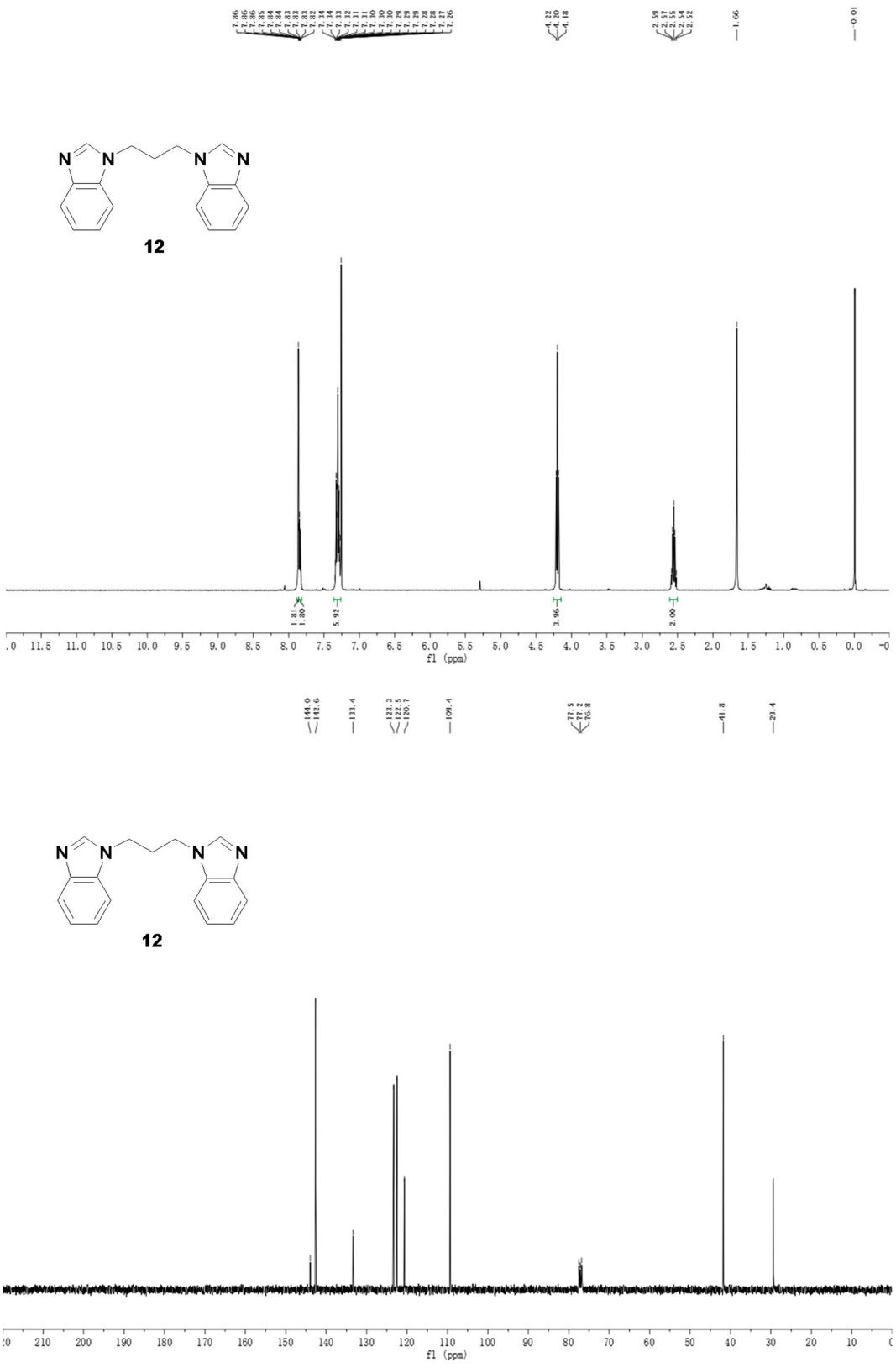

Figure S2. ^{1}H- and ^{13}C-NMR spectra for **12**.

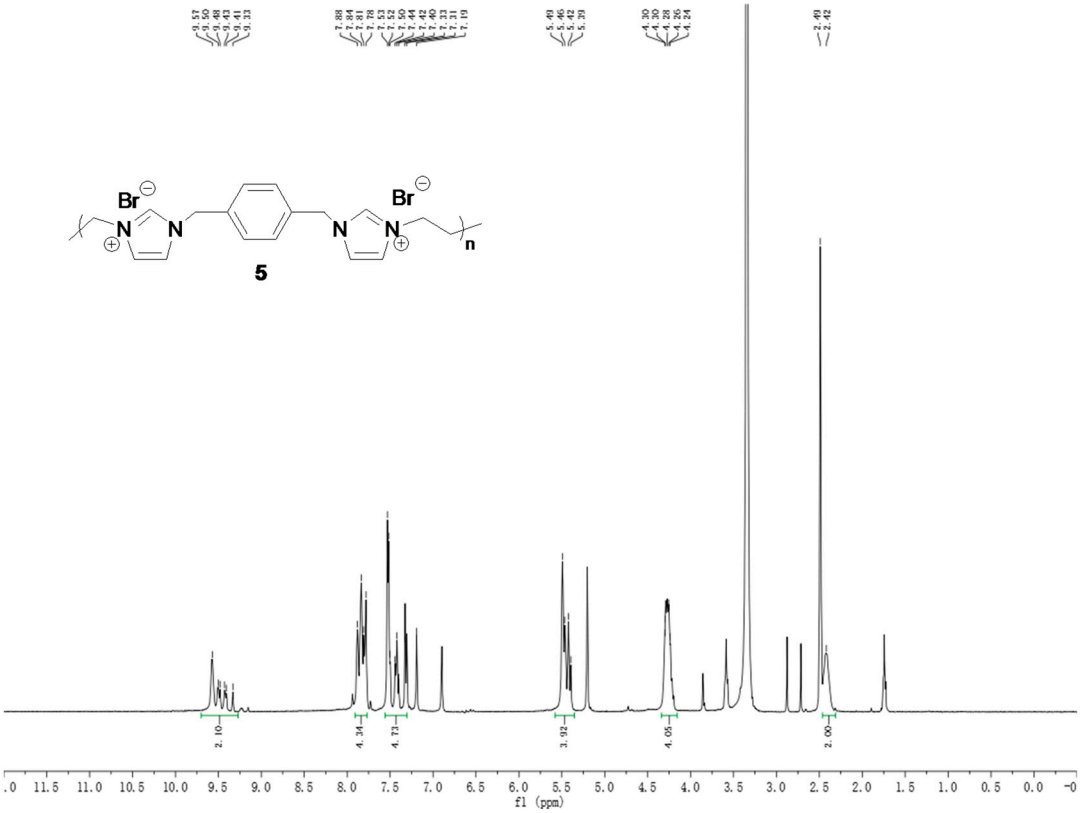

Figure S3. ^{1}H-NMR spectrum for **5**.

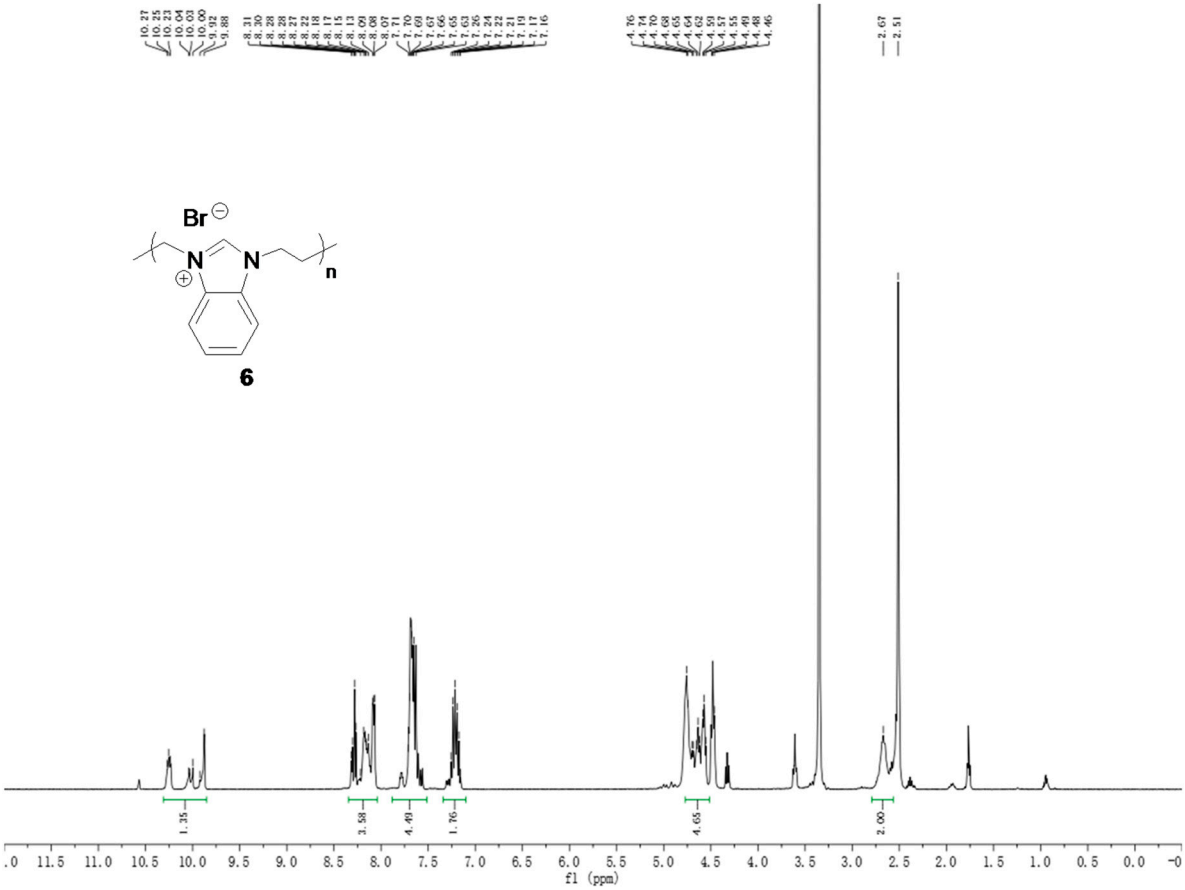

Figure S4. ^{1}H-NMR spectrum for **6**.

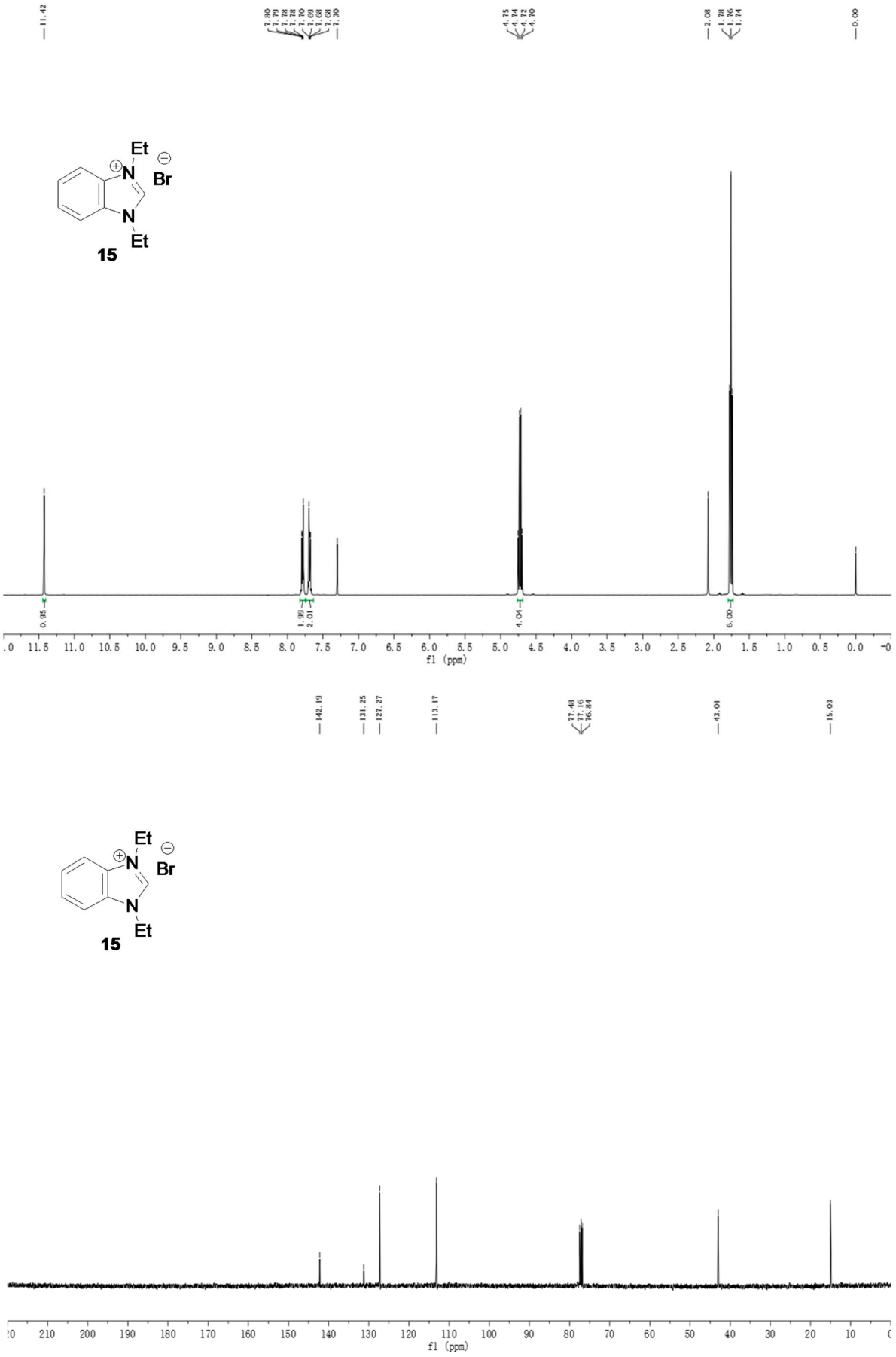

Figure S5. ^{1}H- and ^{13}C-NMR spectra for **15**.

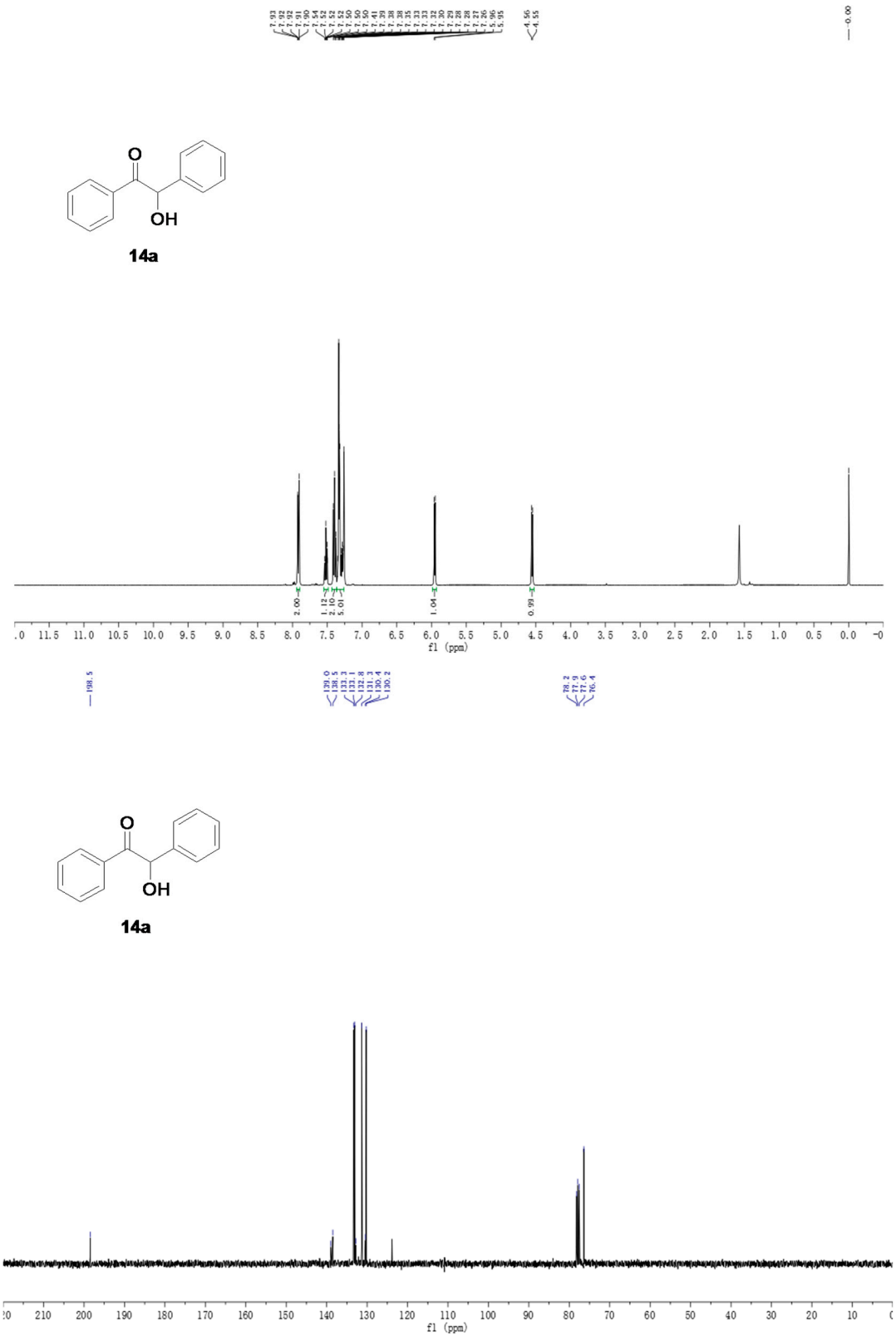

Figure S6. ^{1}H- and ^{13}C-NMR spectra for **14a**.

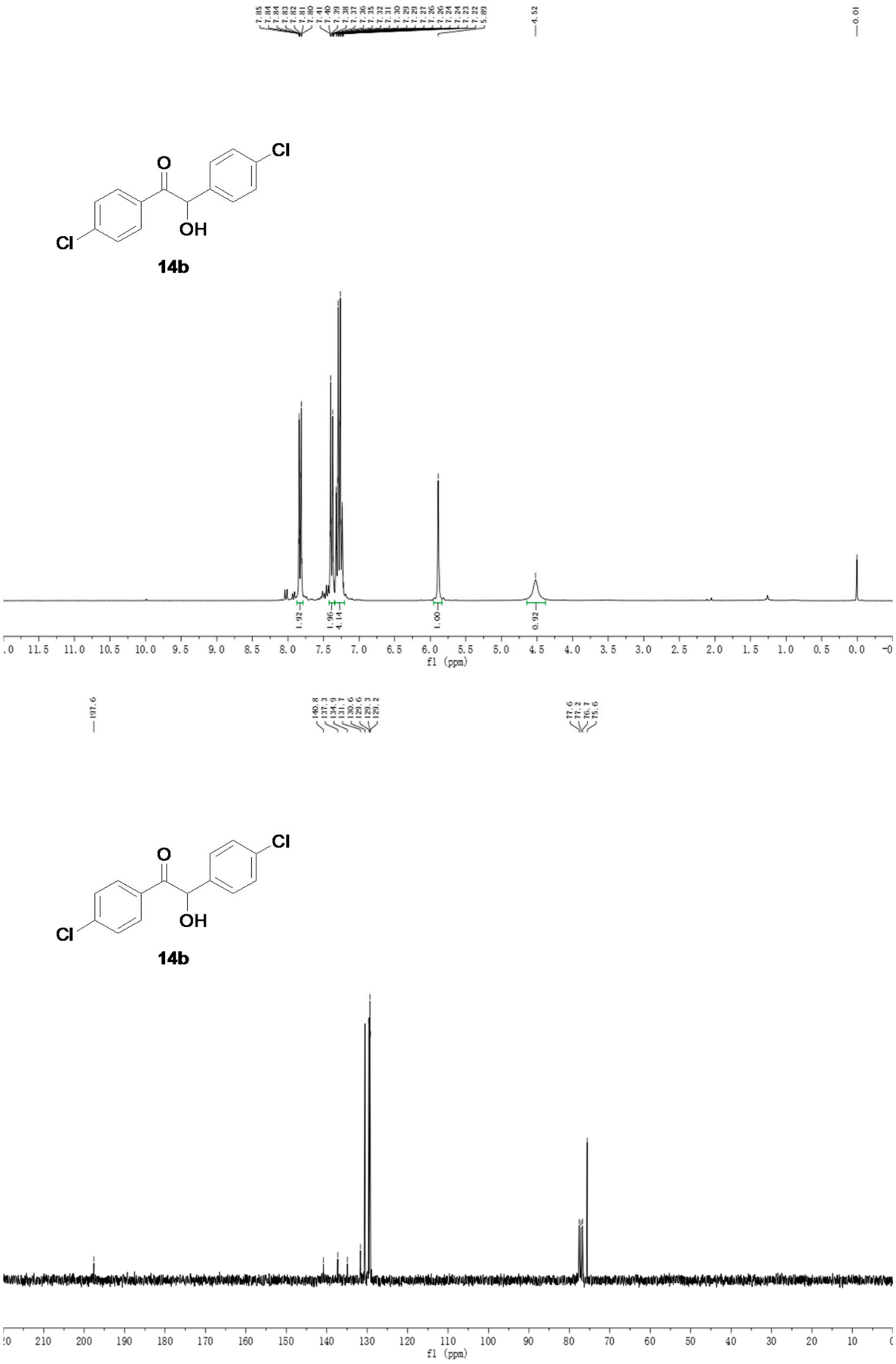

Figure S7. ^{1}H- and ^{13}C-NMR spectra for **14b**.

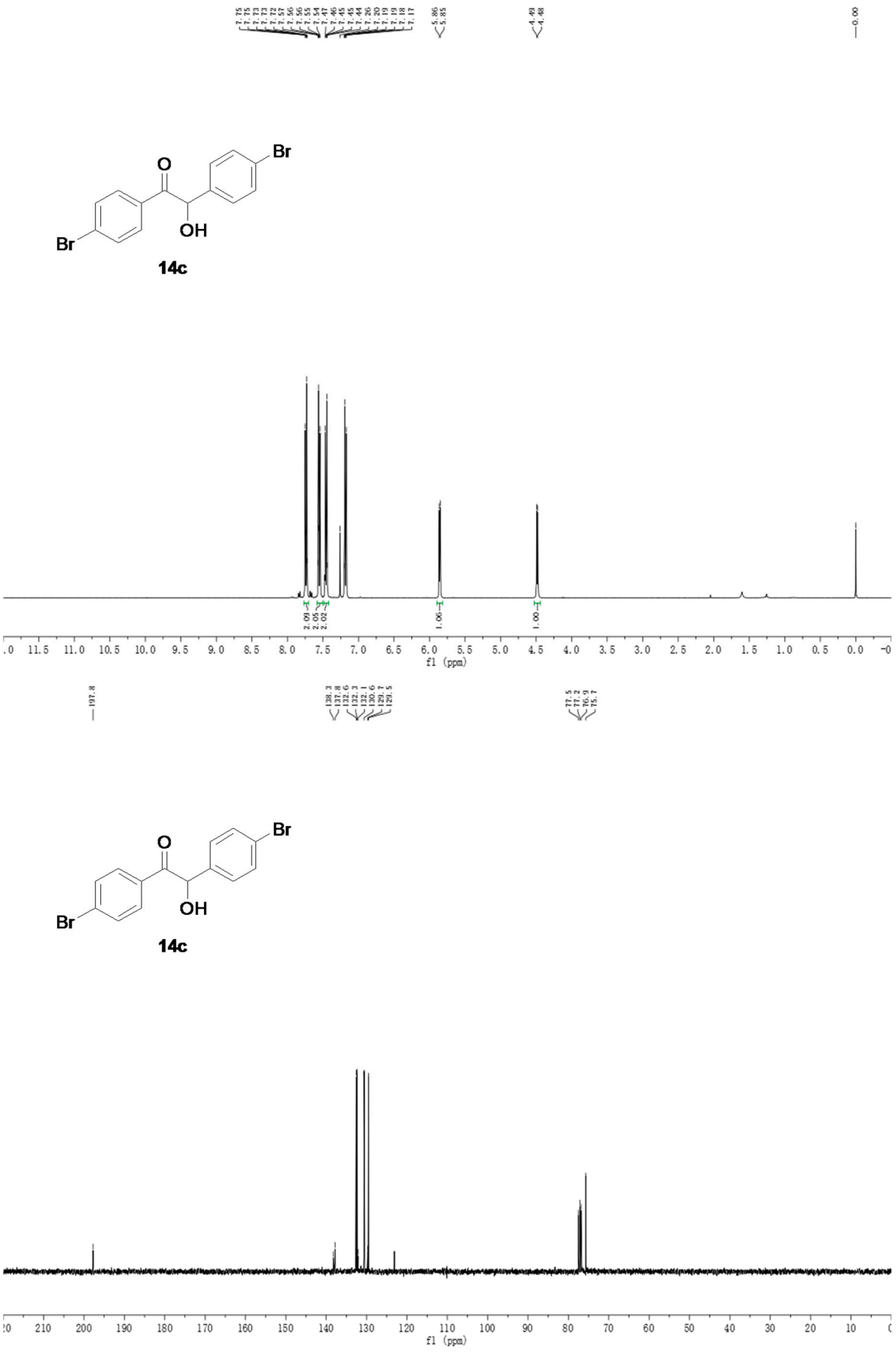

Figure S8. ^{1}H- and ^{13}C-NMR spectra for **14c**.

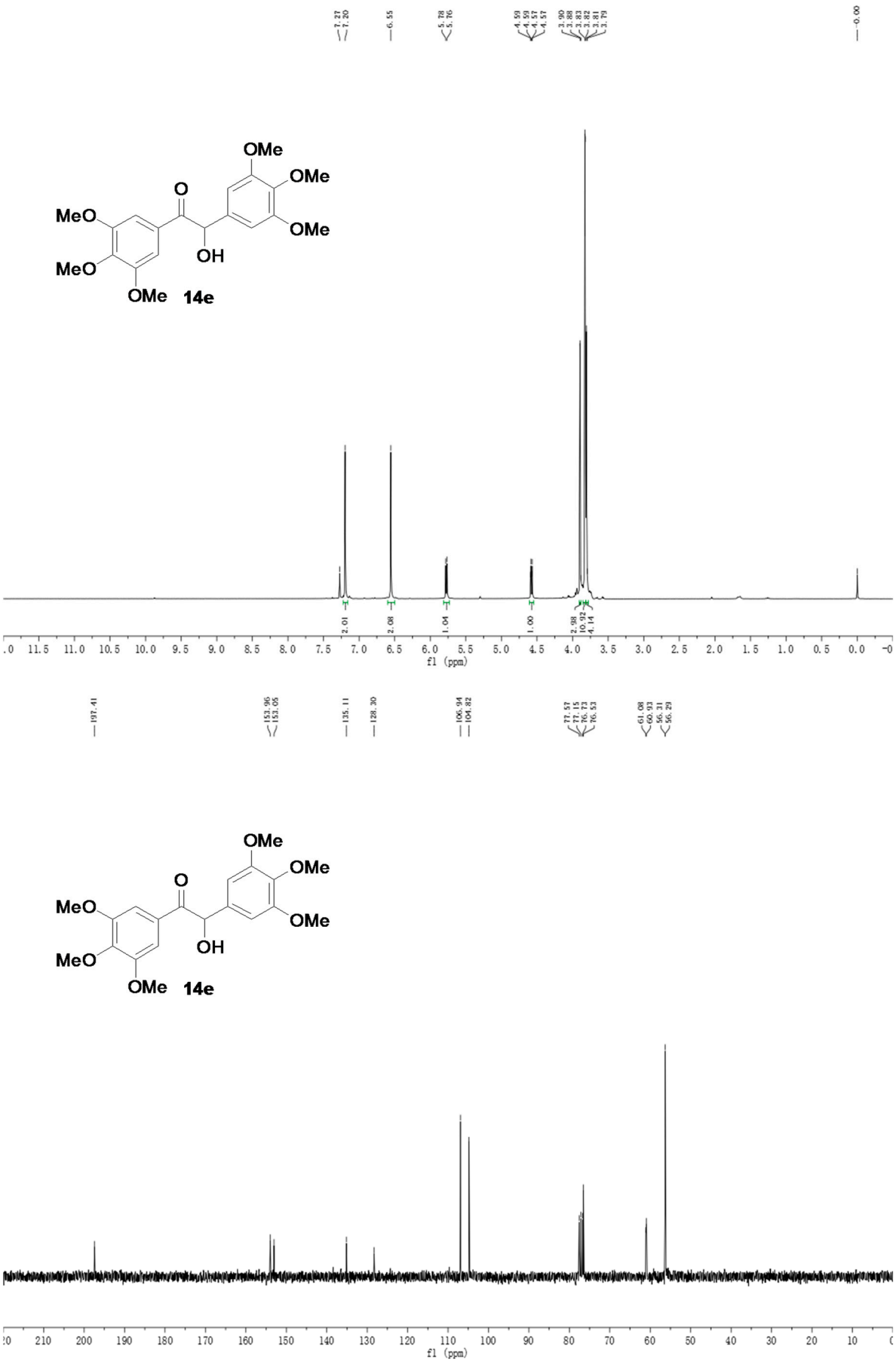

Figure S9. ^{1}H- and ^{13}C-NMR spectra for **1e**.

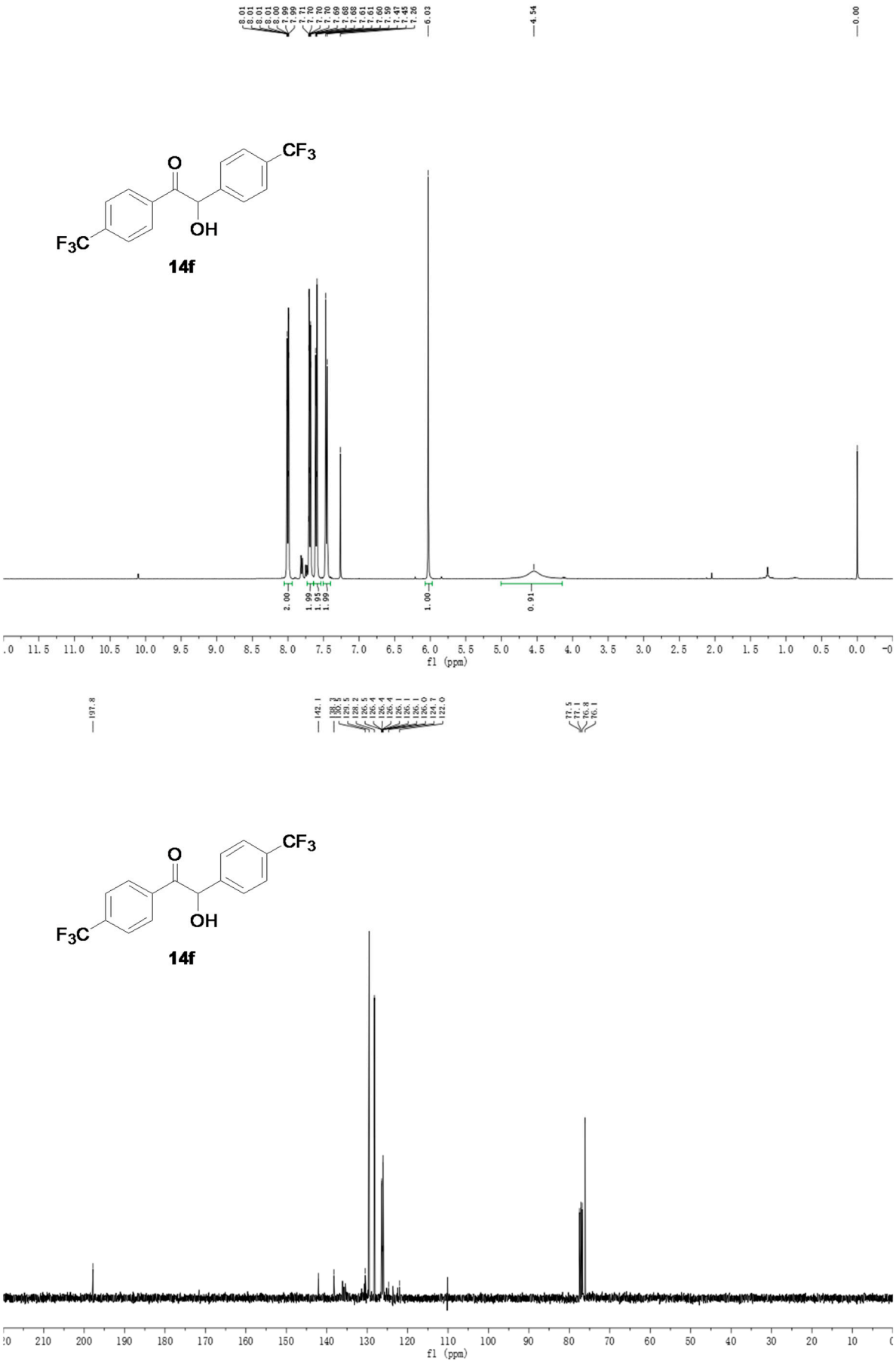

Figure S10. ^{1}H- and ^{13}C-NMR spectra for **14f**.

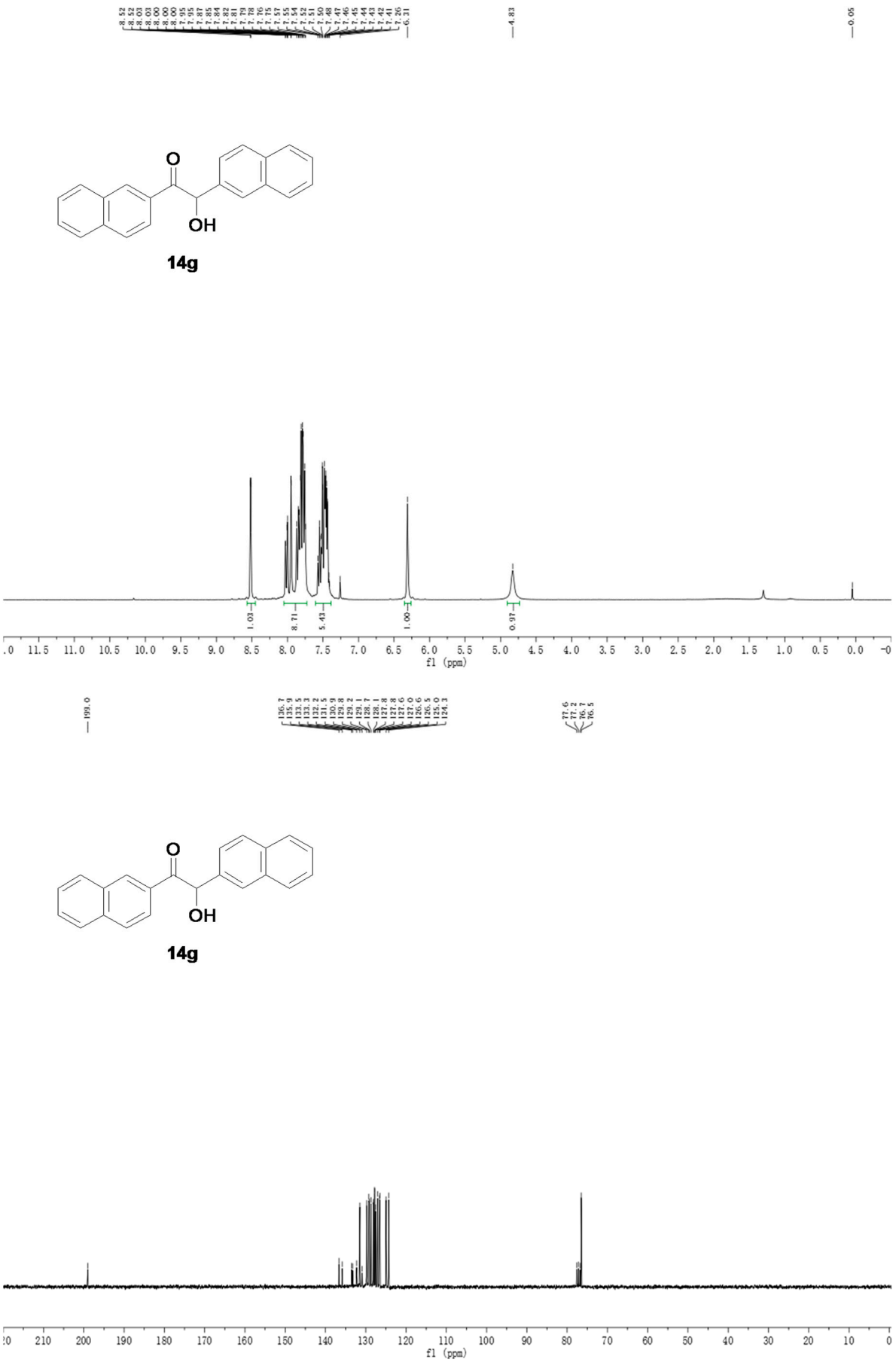

Figure S11. ^{1}H- and ^{13}C-NMR spectra for **14g**.

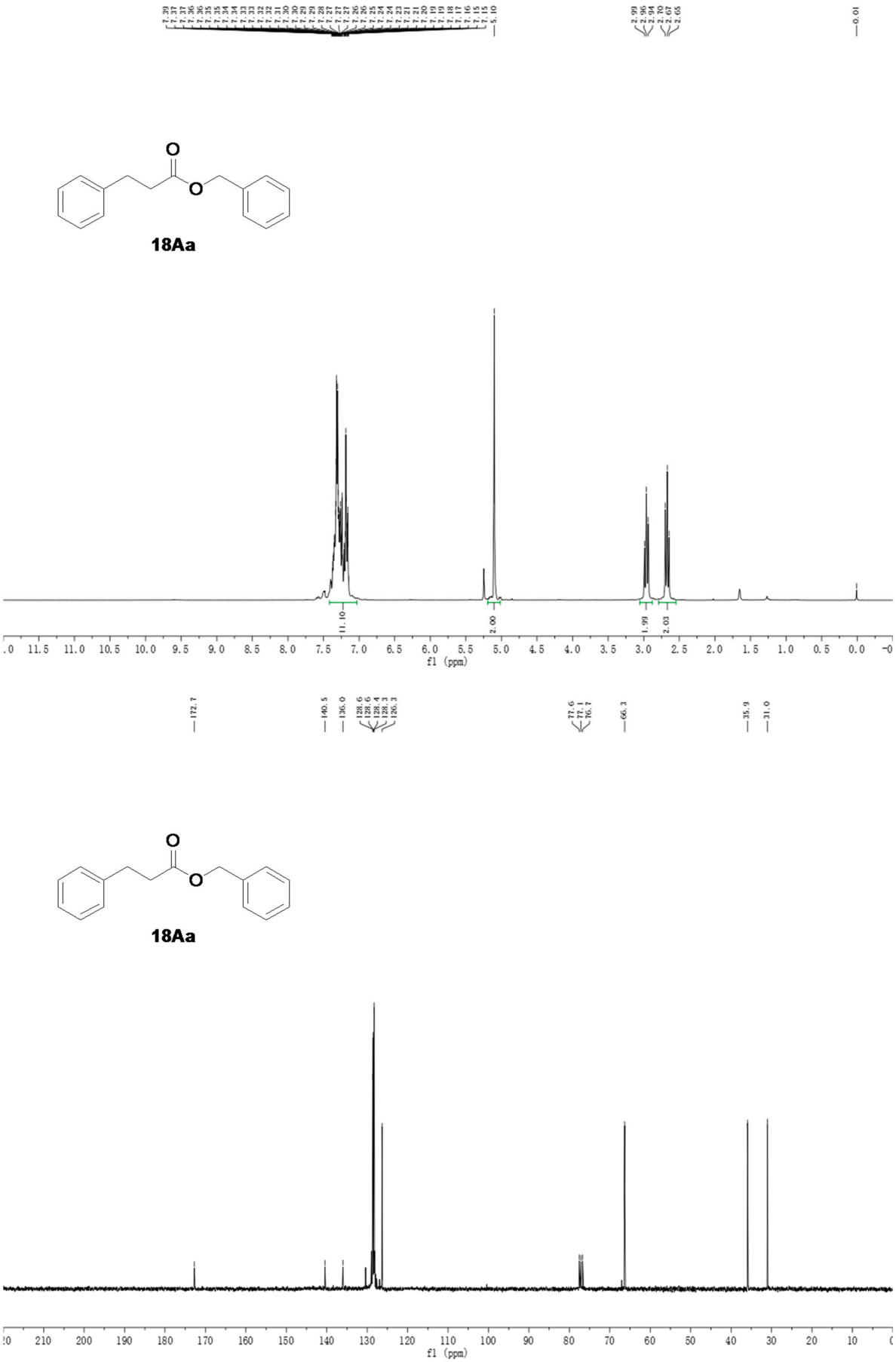

Figure S12. ^{1}H- and ^{13}C-NMR spectra for **18Aa**.

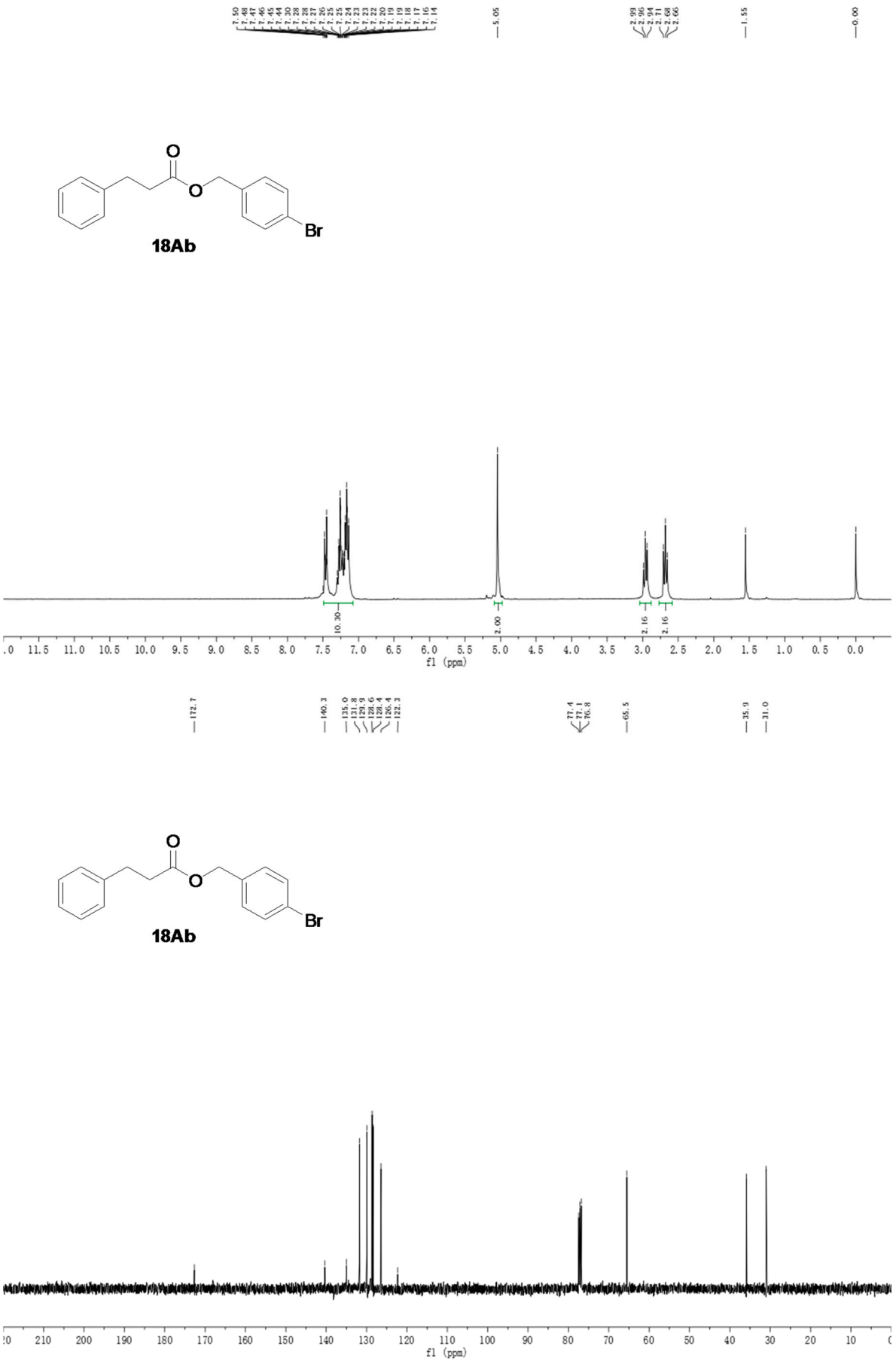

Figure S13. ^{1}H- and ^{13}C-NMR spectra for **18Ab**.

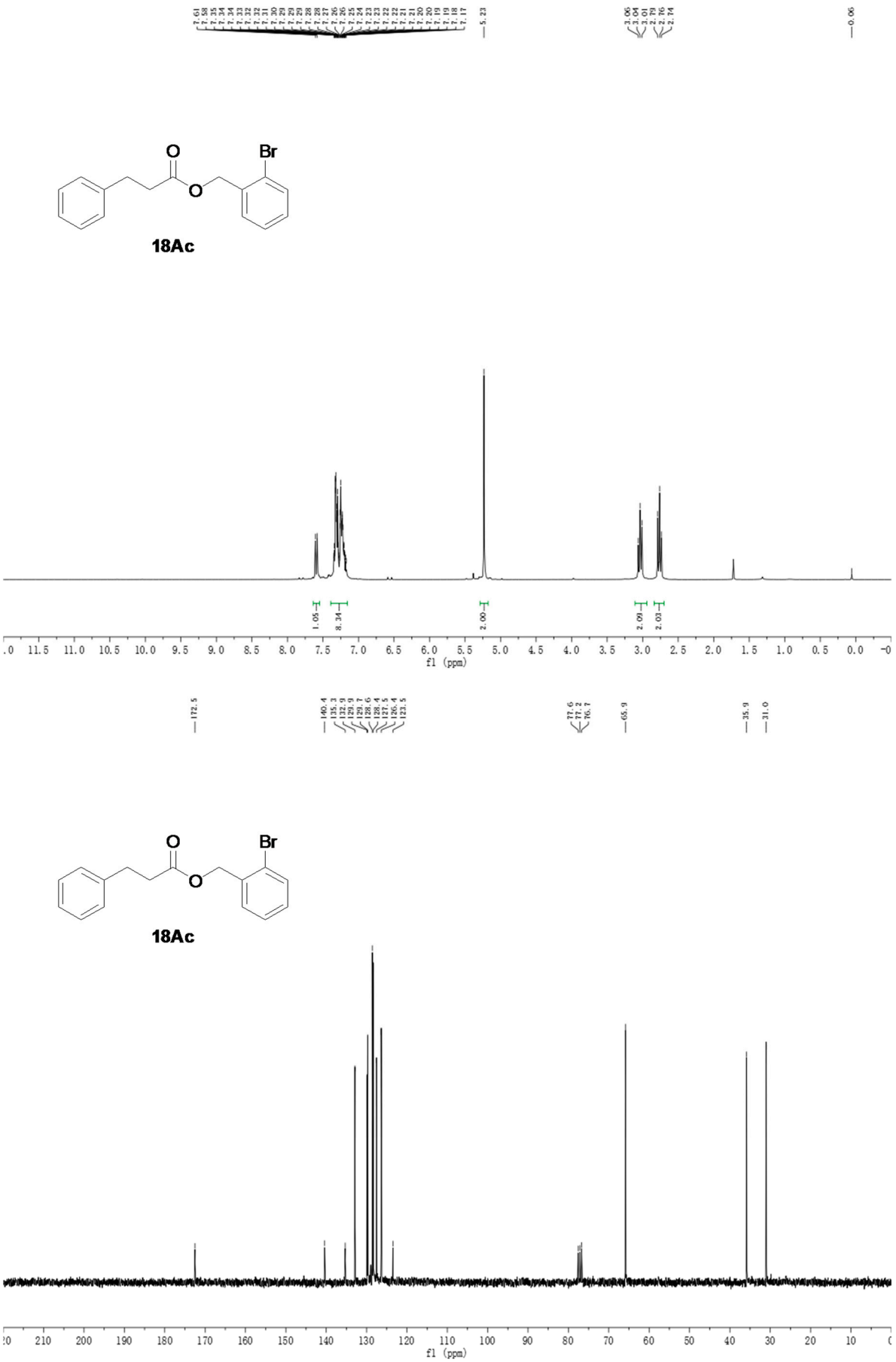

Figure S14. ^{1}H- and ^{13}C-NMR spectra for **18Ac**.

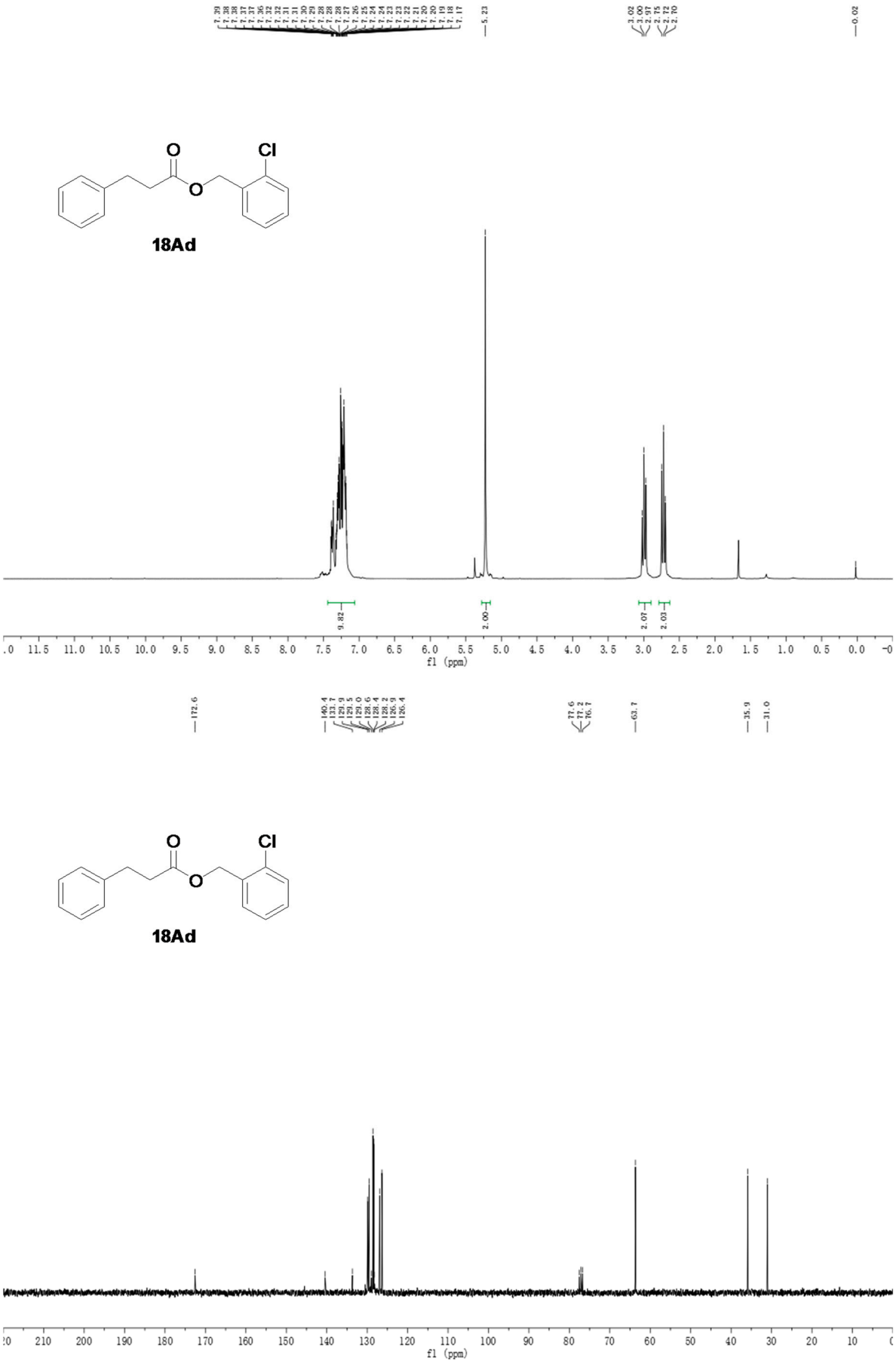

Figure S15. ^{1}H- and ^{13}C-NMR spectra for **18Ad**.

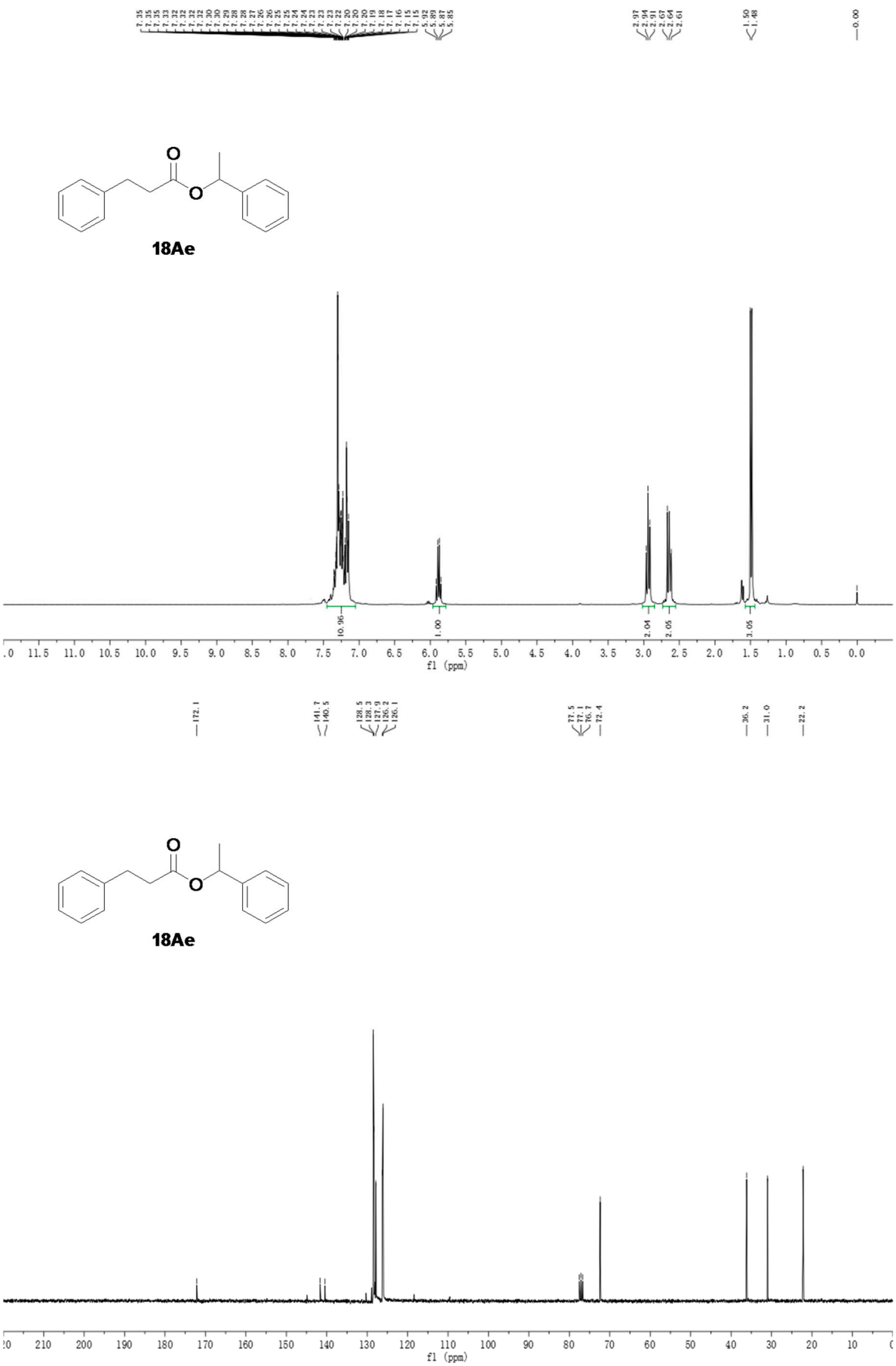

Figure S16. ^{1}H- and ^{13}C-NMR spectra for **18Ae**.

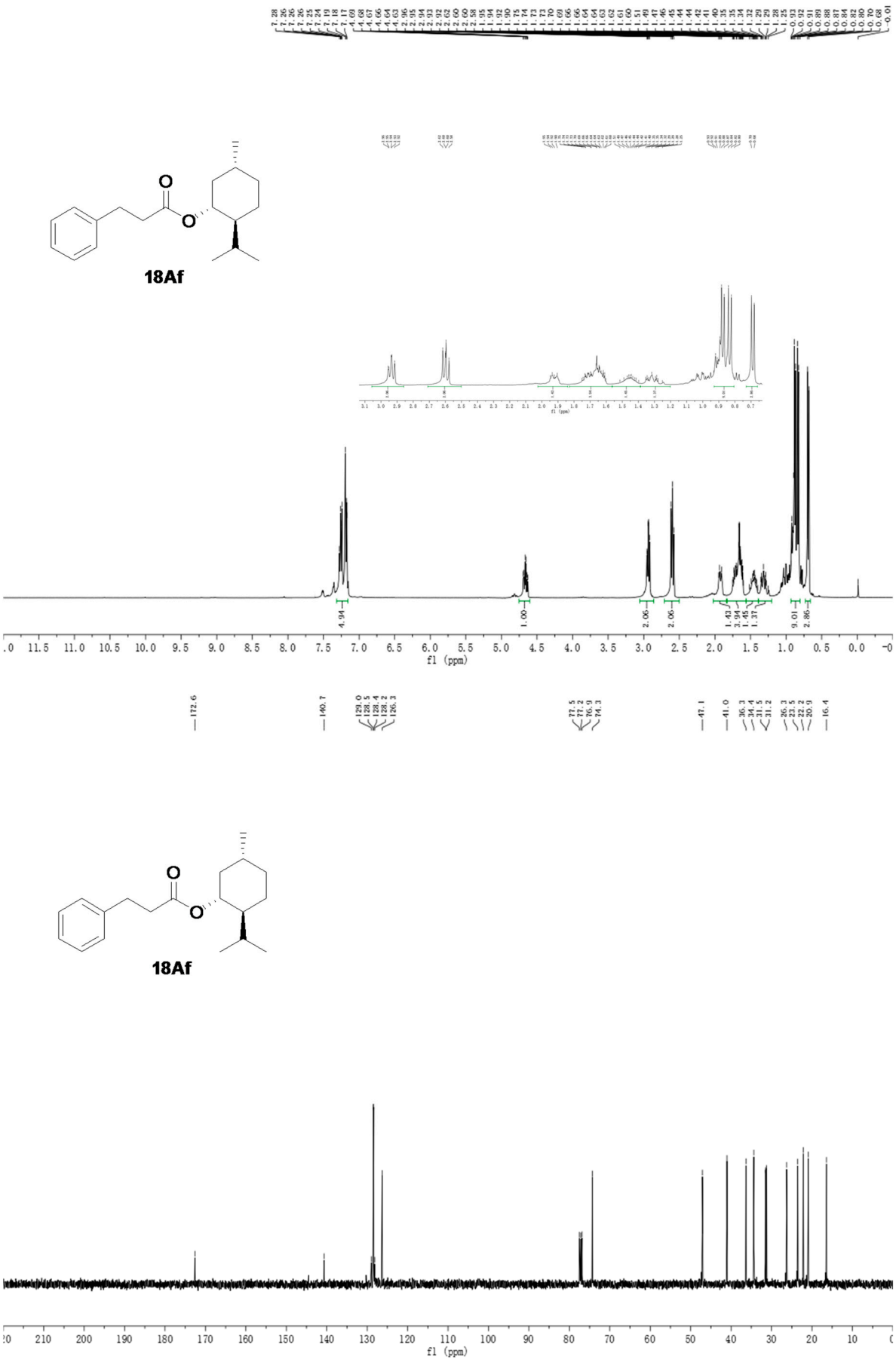

Figure S17. ^{1}H- and ^{13}C-NMR spectra for **18Af**.

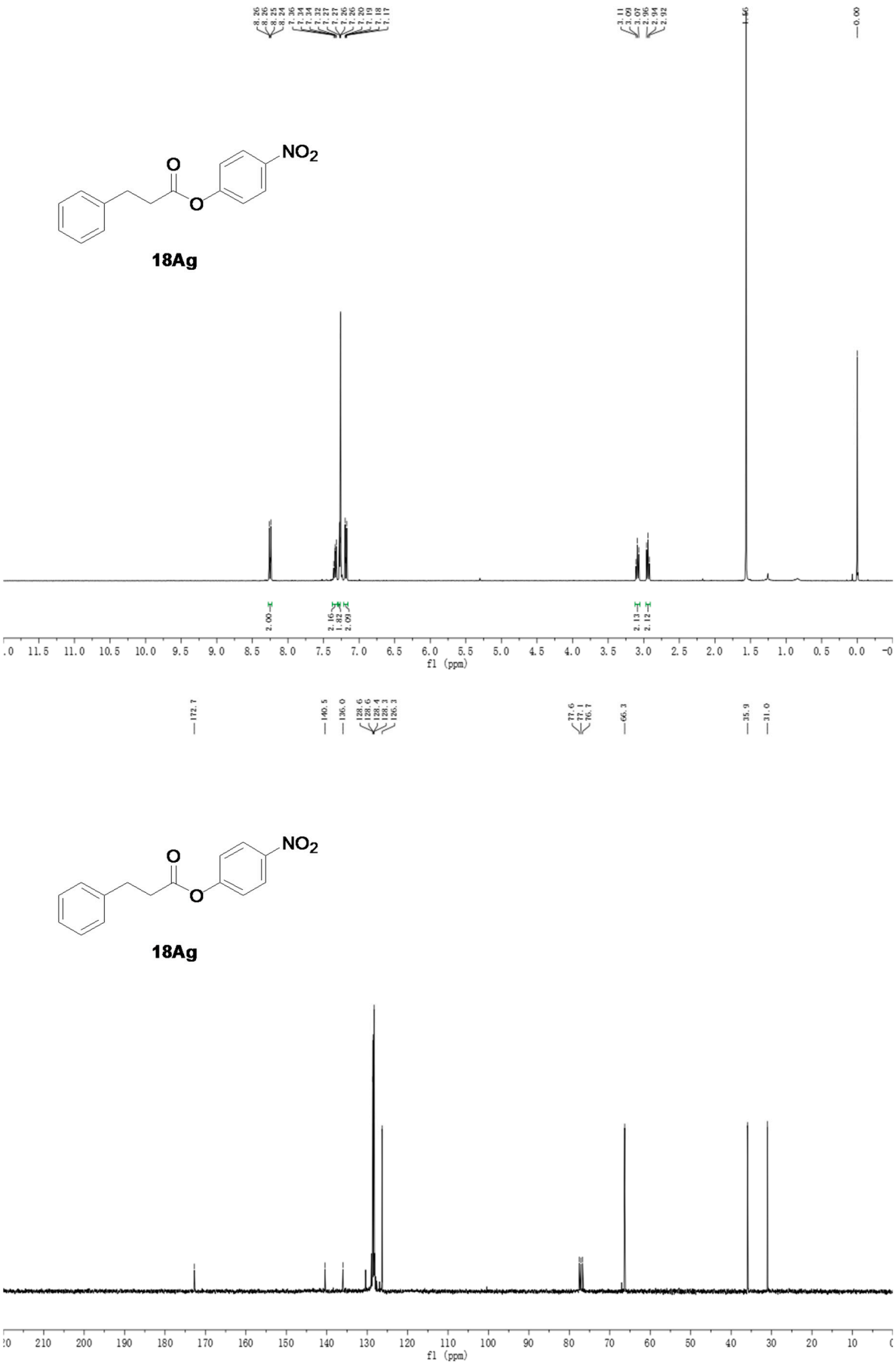

Figure S18. ^{1}H- and ^{13}C-NMR spectra for **18Ag**.

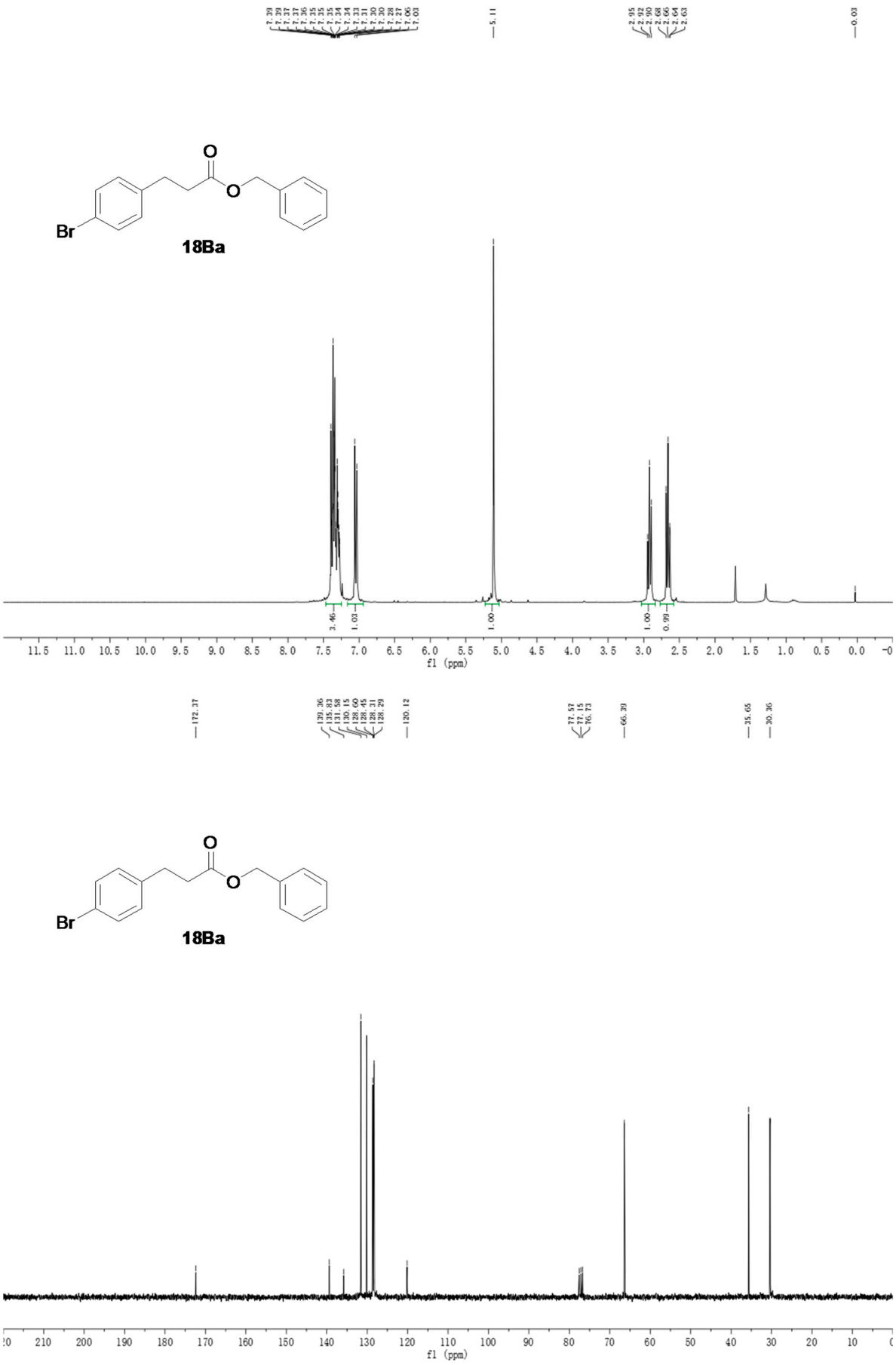

Figure S19. ^{1}H- and ^{13}C-NMR spectra for **18Ba**.

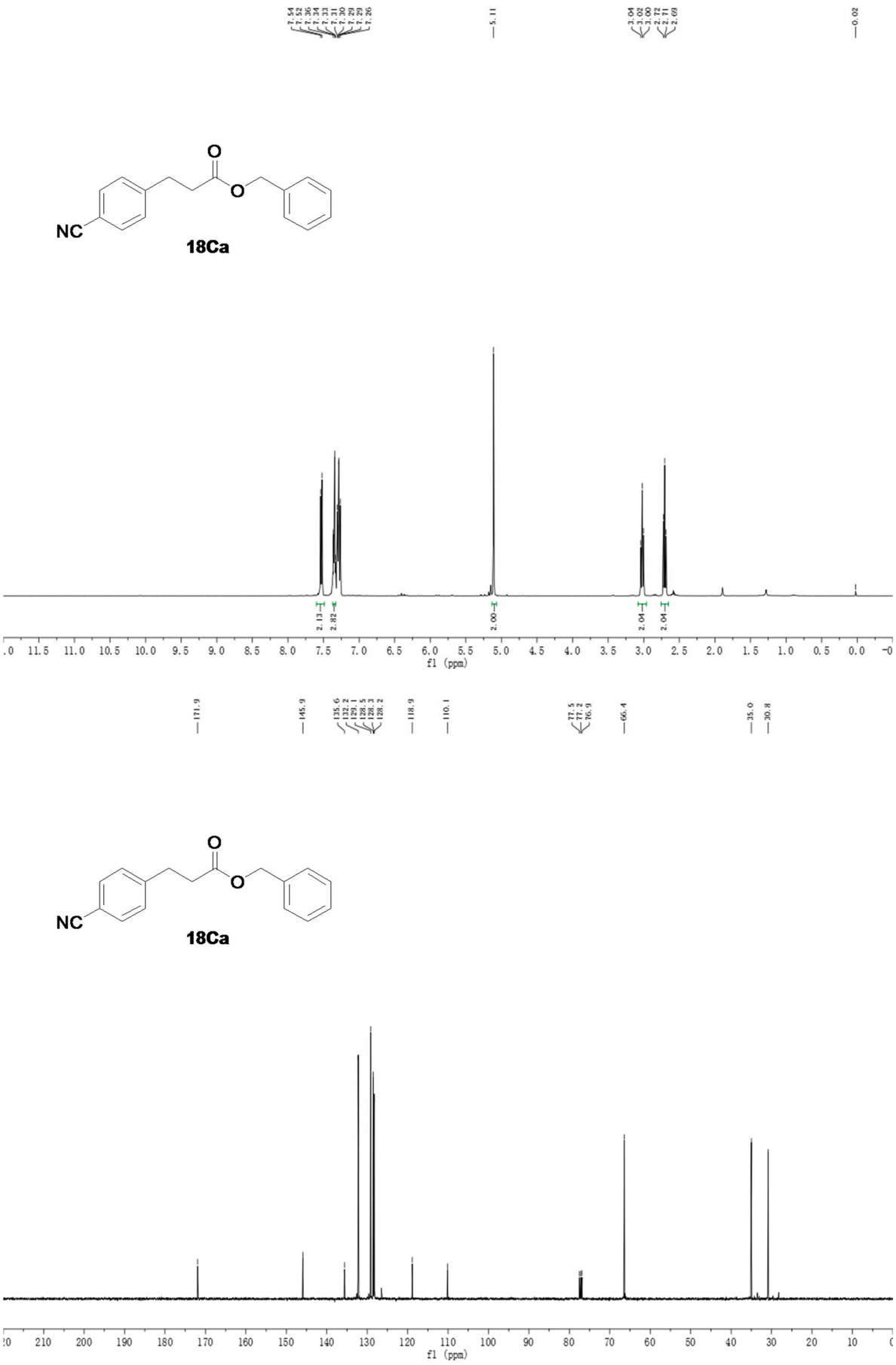

Figure S20. ^{1}H- and ^{13}C-NMR spectra for **18Ca**.

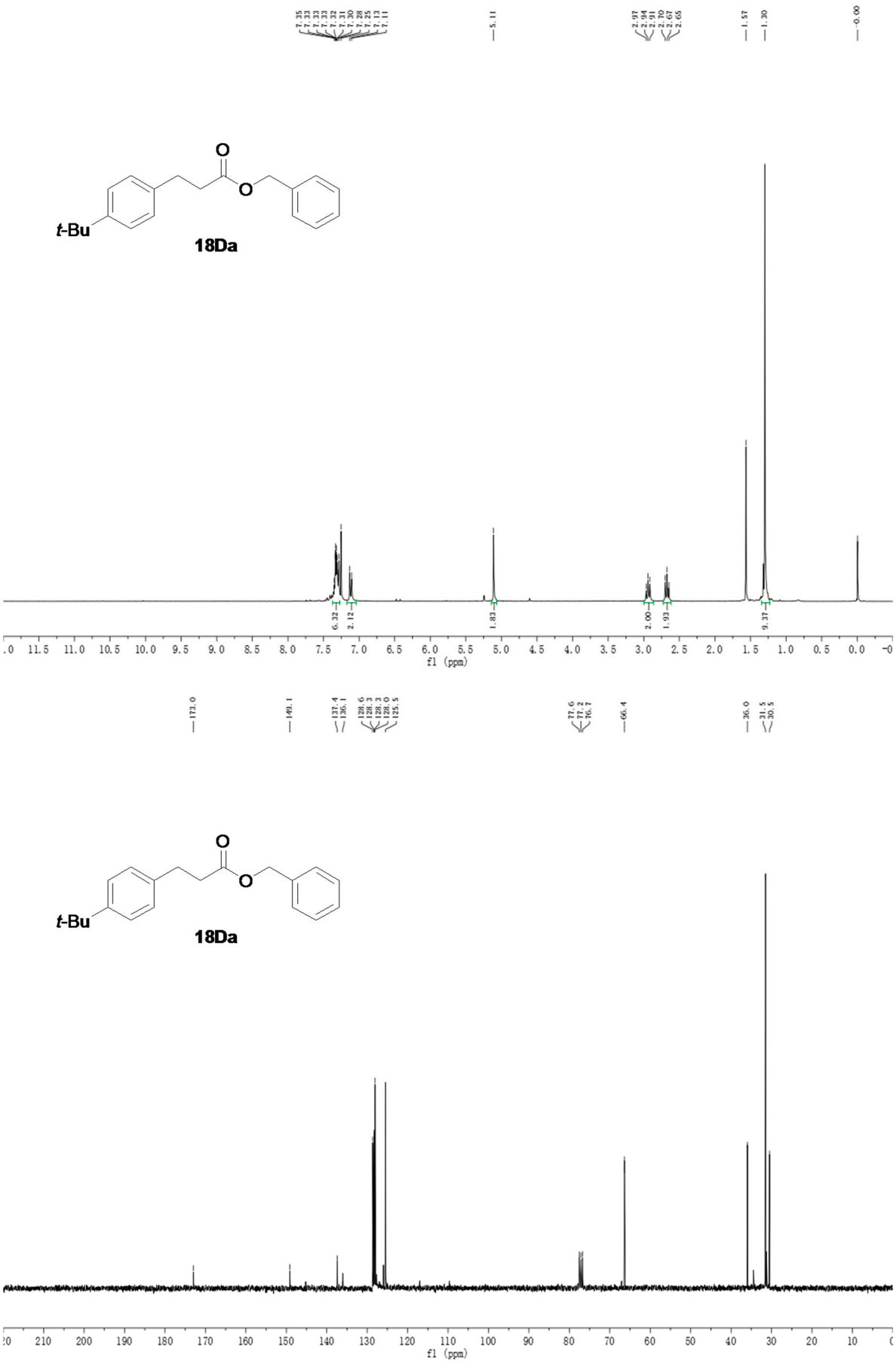

Figure S21. ^{1}H- and ^{13}C-NMR spectra for **18Da**.

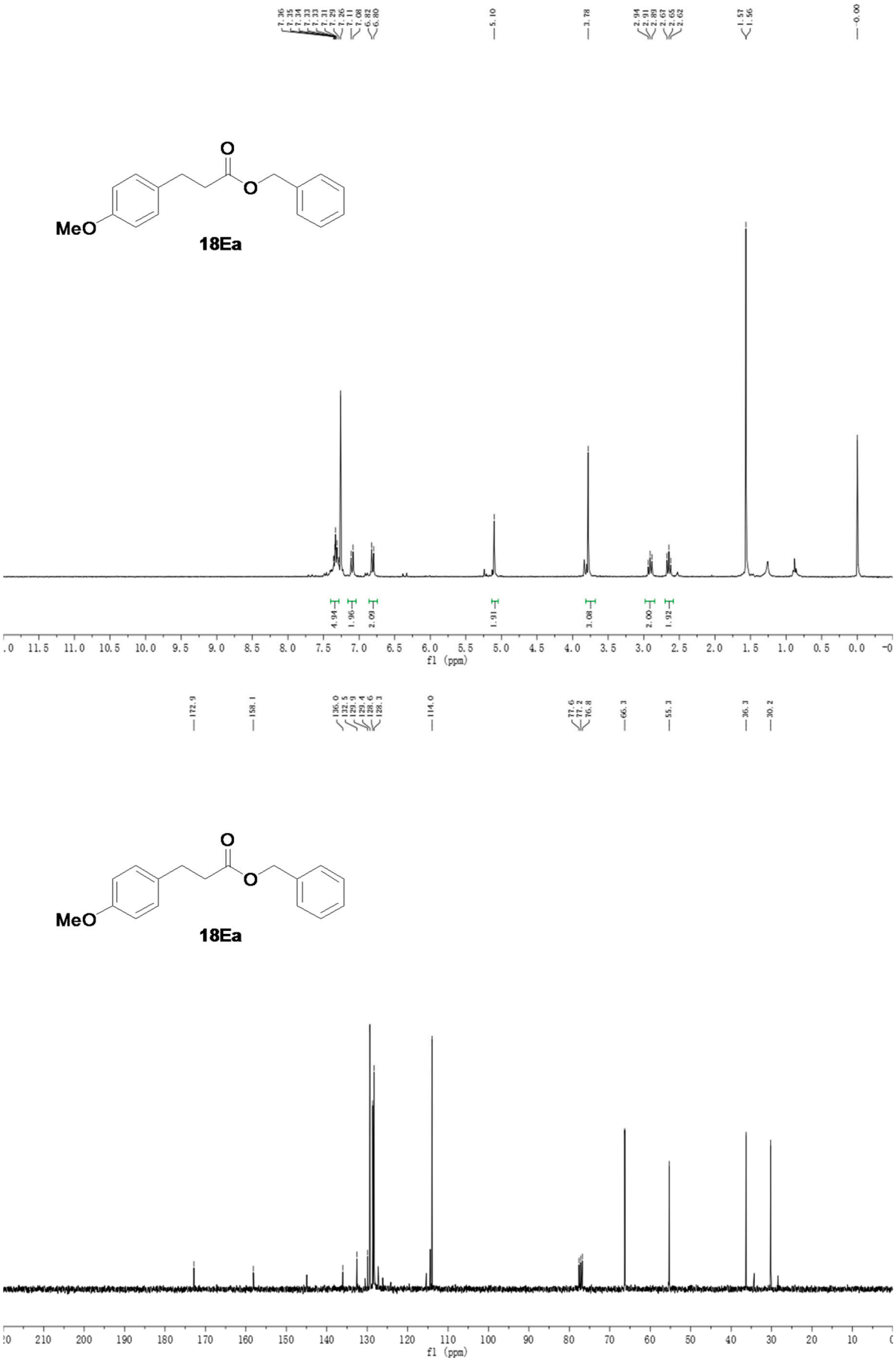

Figure S22. ^{1}H- and ^{13}C-NMR spectra for **18Ea**.

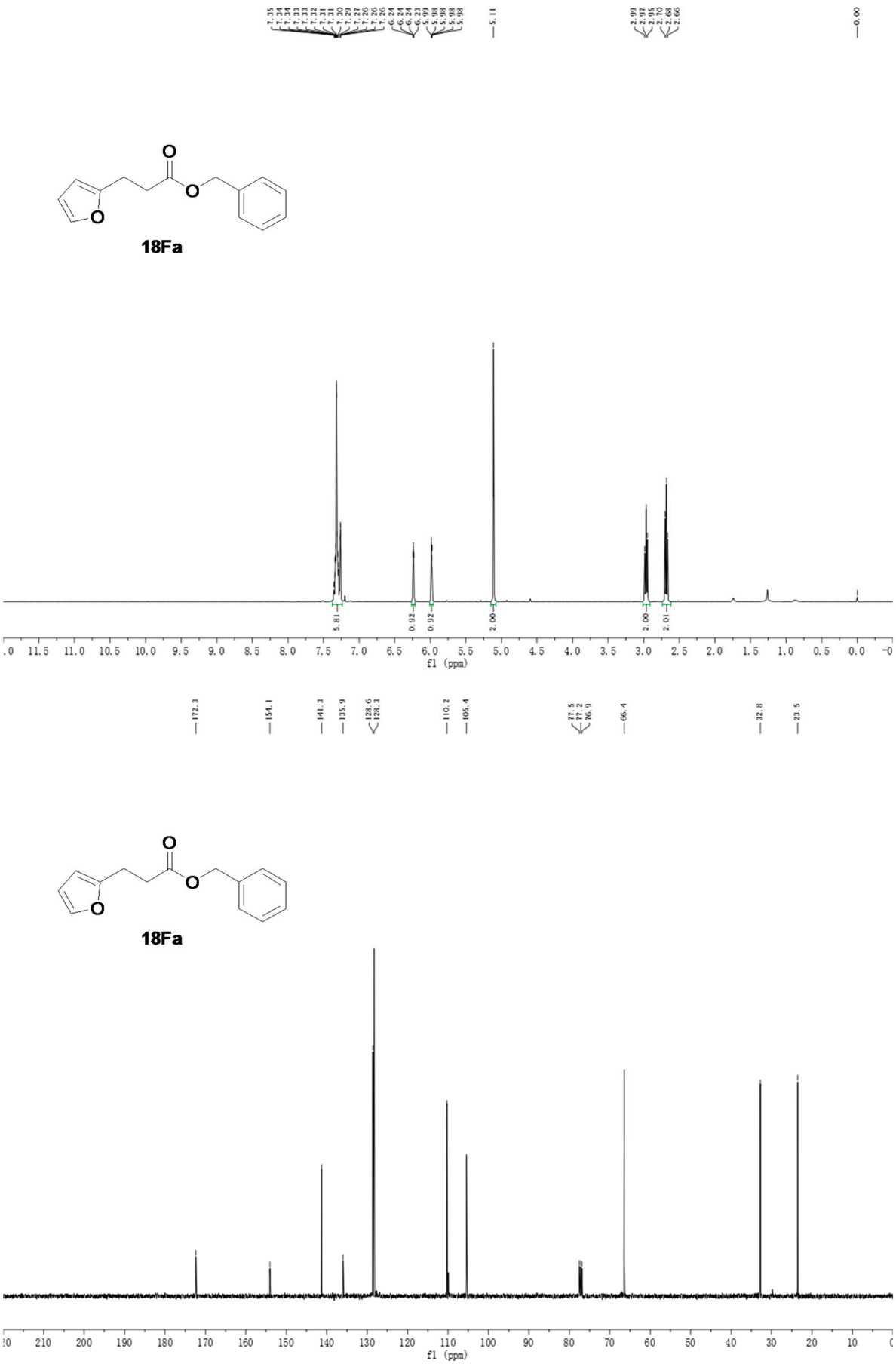

Figure S23. ^{1}H- and ^{13}C-NMR spectra for **18Fa**.