Supporting Information

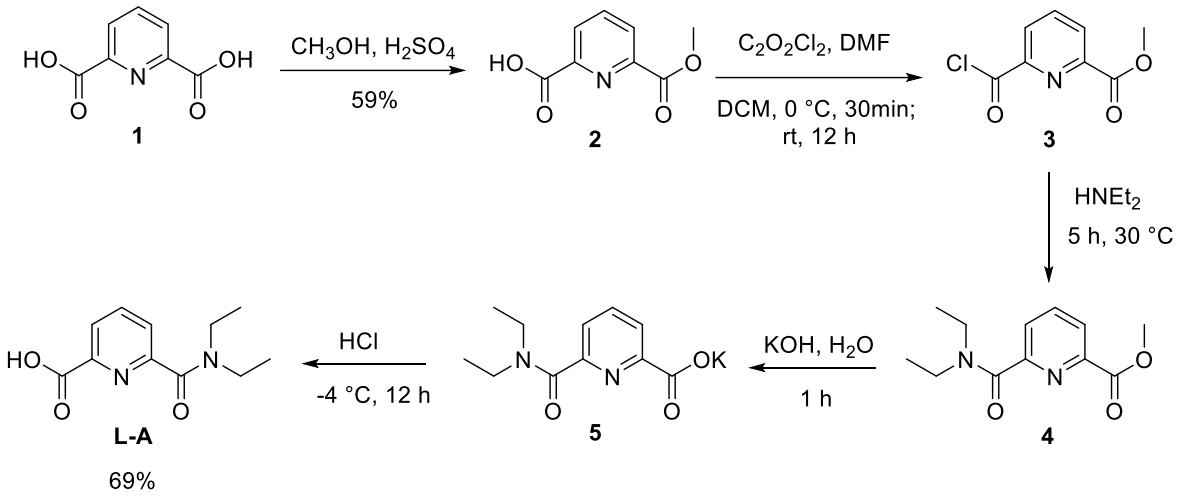


Figure S1. Synthesis of **L-A**.

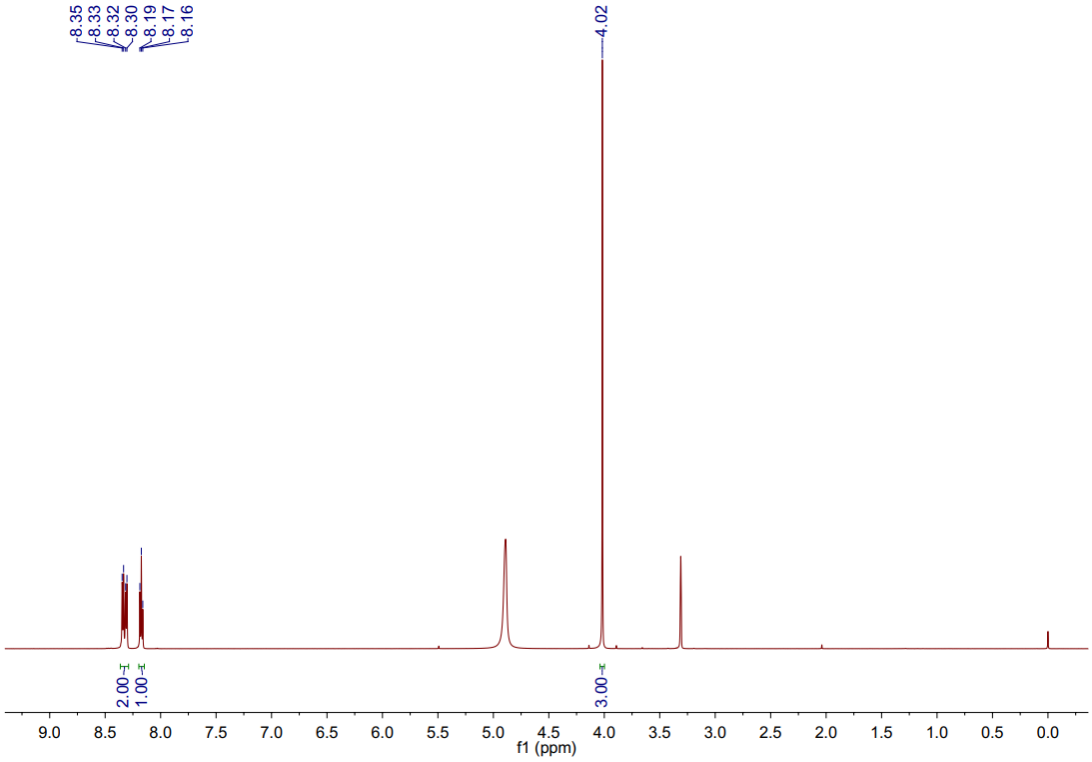


Figure S2. ^{1}H NMR (600 MHz, 298 K, CD_3OD) spectrum of **2**.

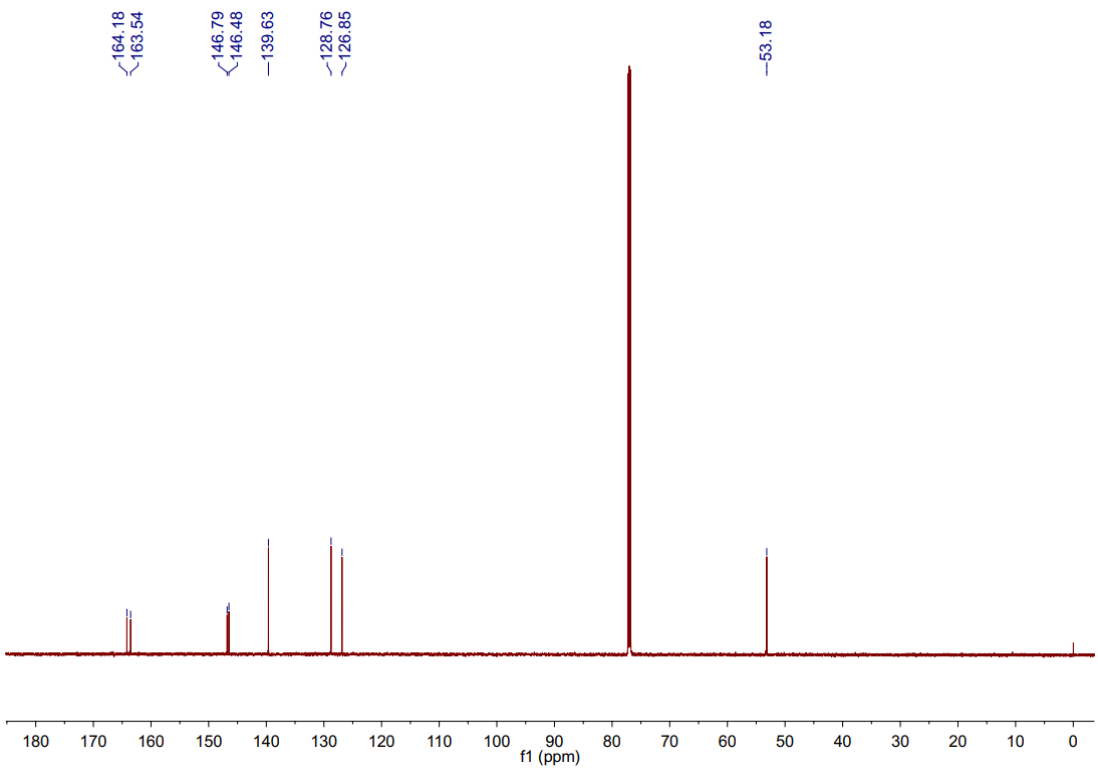


Figure S3. ^{13}C NMR (151 MHz, 298 K, CD_3OD) spectrum of **2**.

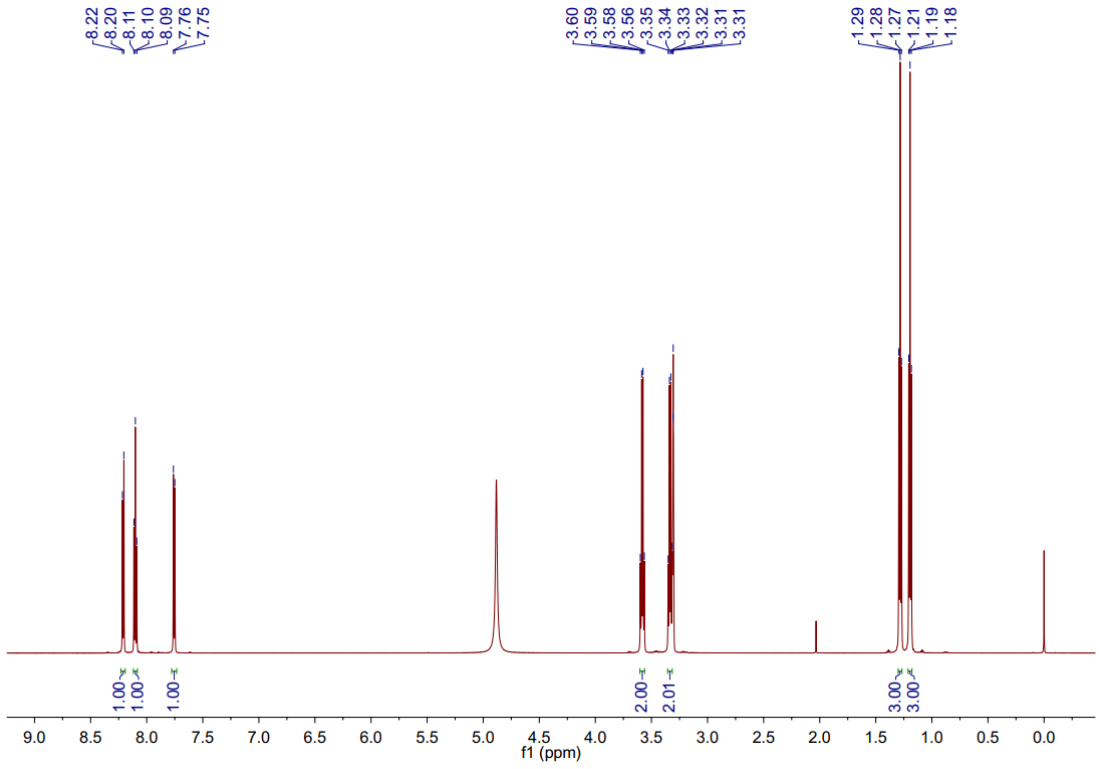


Figure S4. ^{1}H NMR (600 MHz, 298 K, CD_3OD) spectrum of **L-A**.

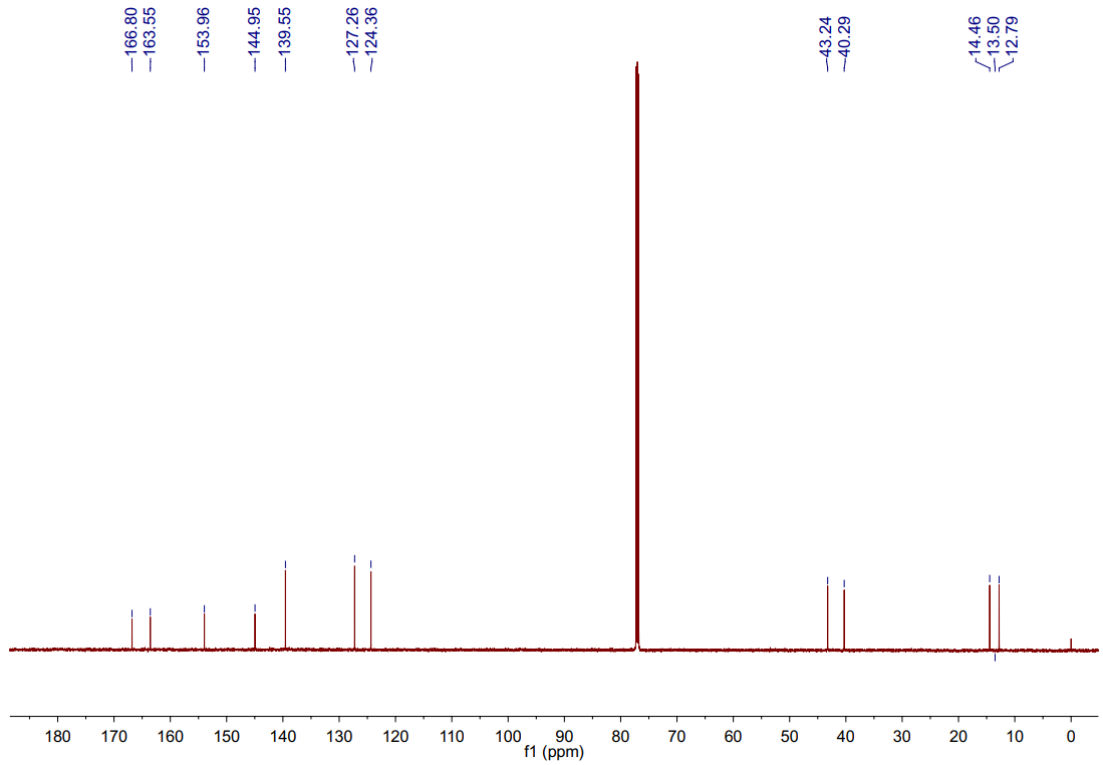


Figure S5. ^{13}C NMR (151 MHz, 298 K, $CDCl_3$) spectrum of **L-A**.

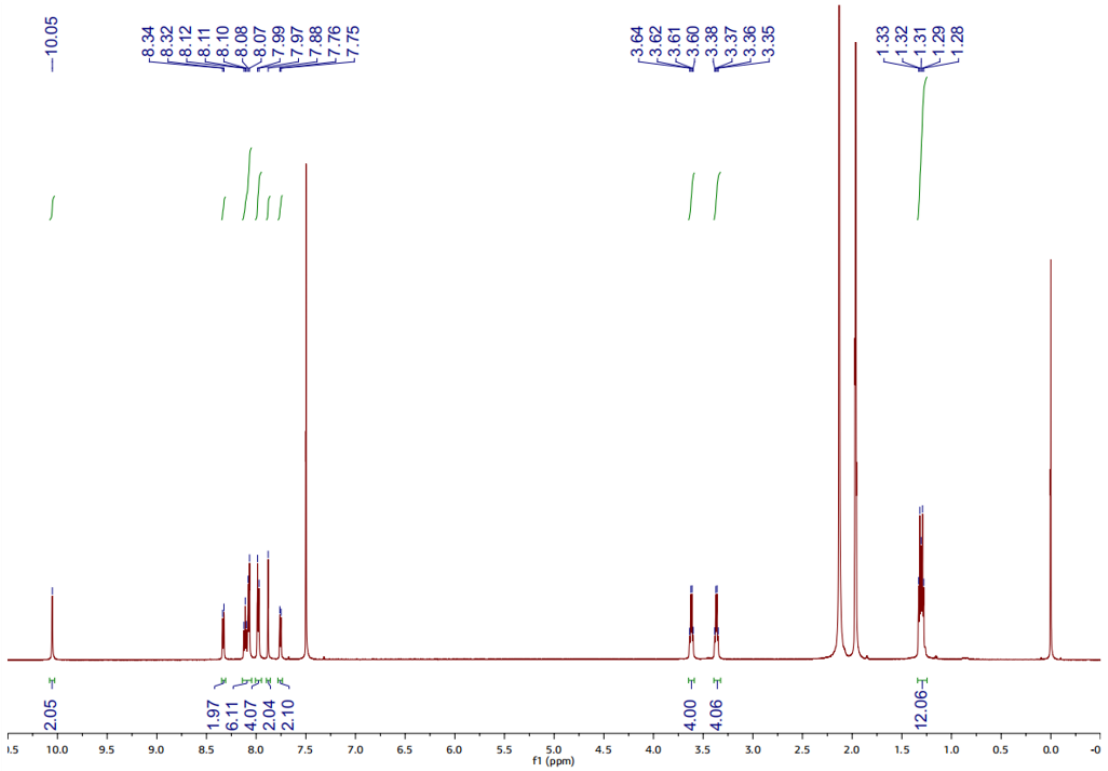


Figure S6. ^{1}H NMR (600 MHz, 298 K, $CD_3CN/CDCl_3$ = 1/1) spectrum of **L-B**.

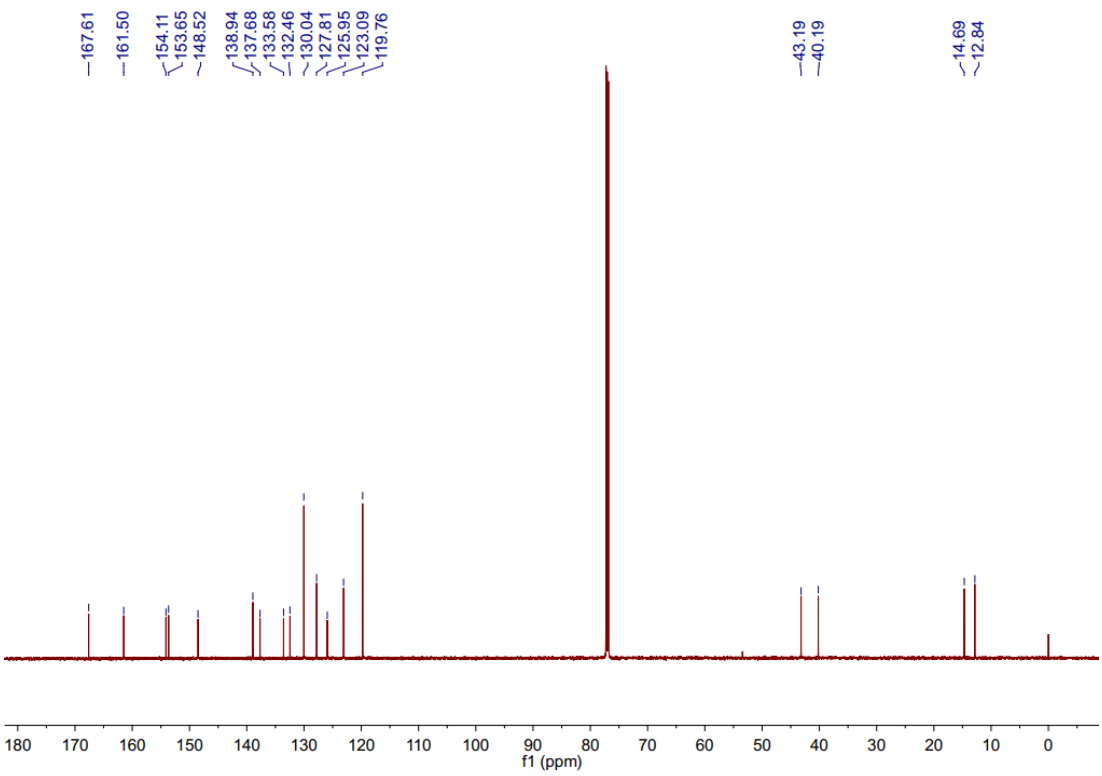


Figure S7. ^{13}C NMR (151 MHz, 298 K, $CDCl_3$) spectrum of **L-B**.

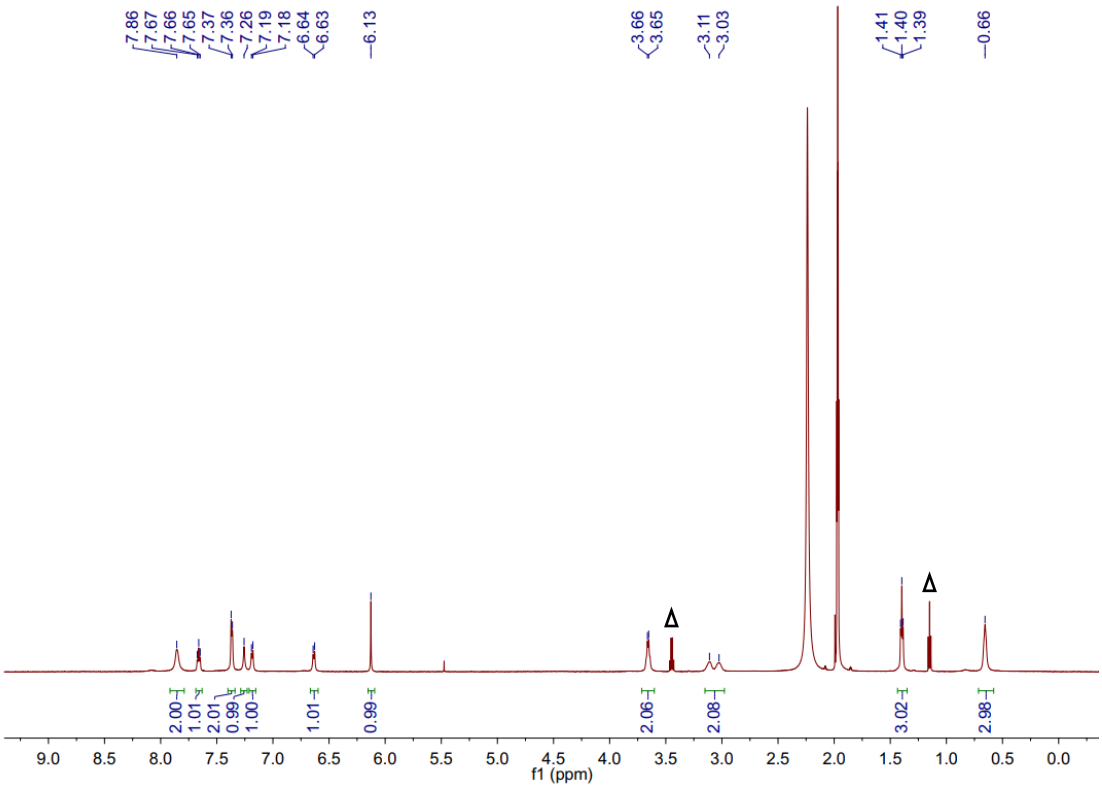


Figure S8. ^{1}H NMR (600 MHz, 298 K, CD_3CN) spectrum of **C**$_A$. (Δ=Et_2O in CD_3CN)

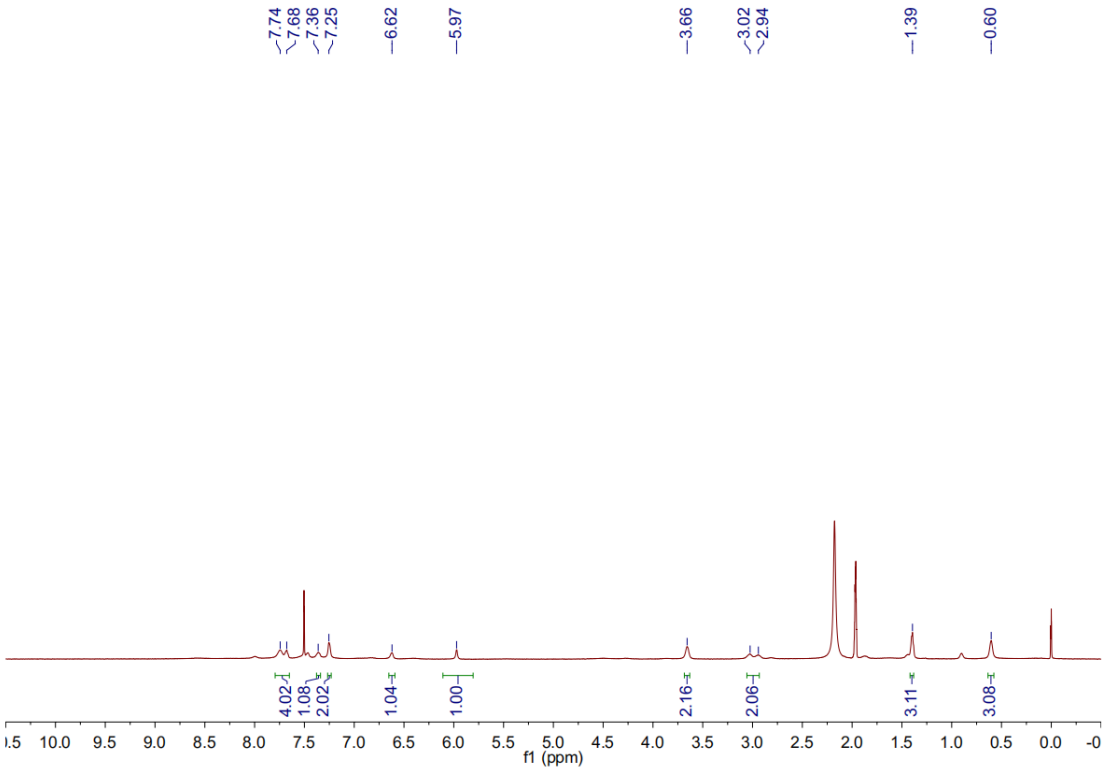


Figure S9. ^{1}H NMR (600 MHz, 298 K, $CD_3CN/CDCl_3$ = 1/1) spectrum of **CA**.

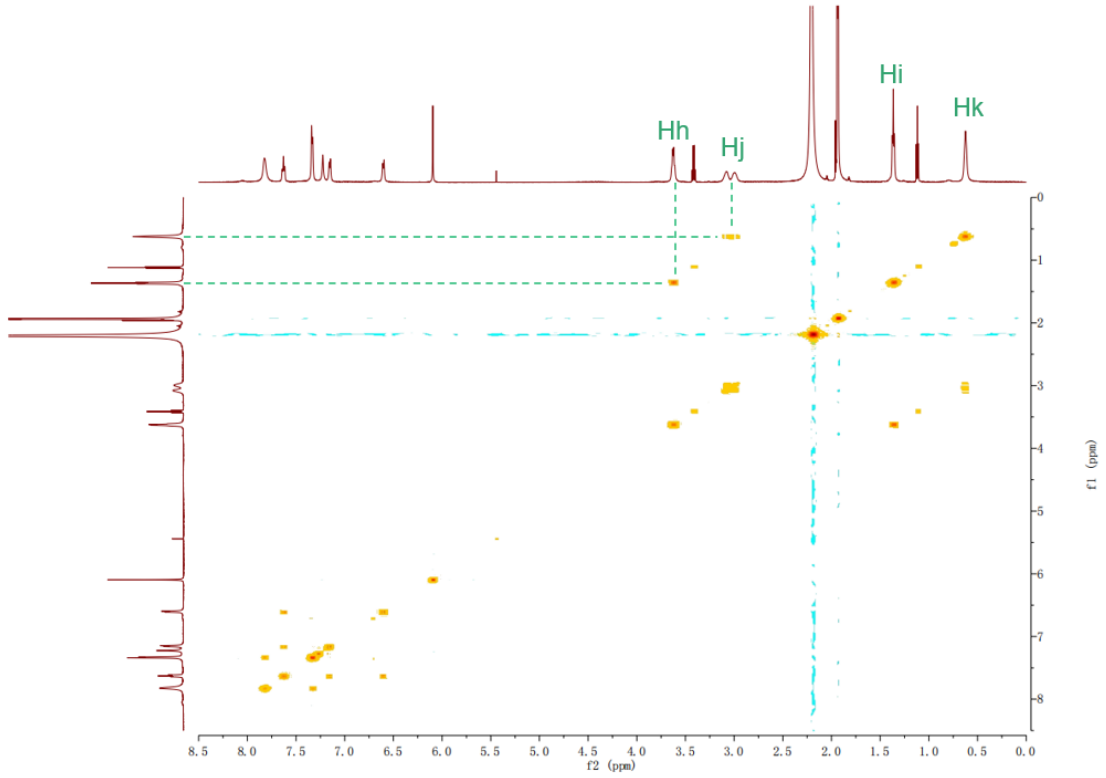


Figure S10. Aromatic region of the COSY (CD_3CN) spectrum of **CA**.

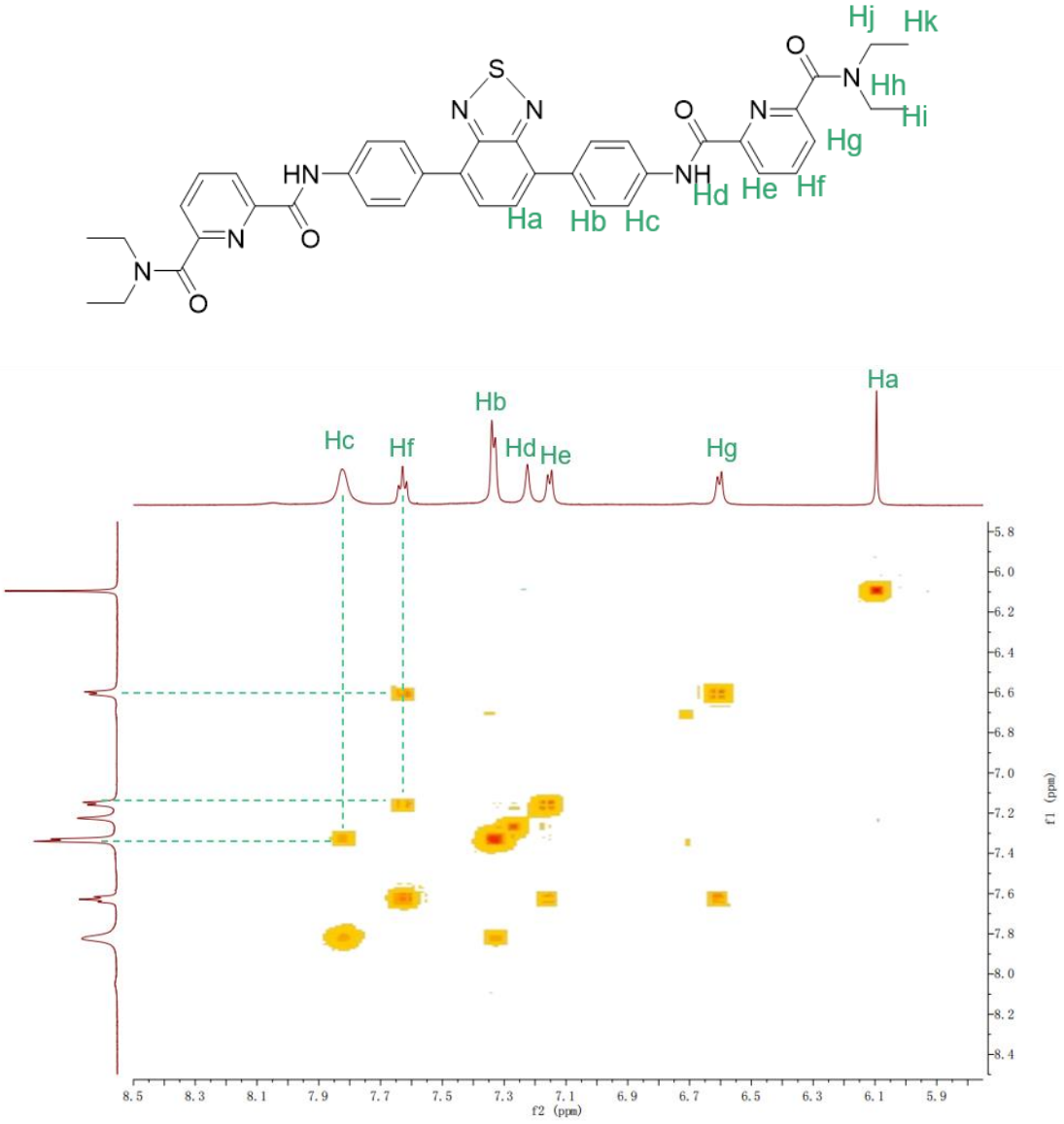


Figure S11. Aromatic region magnification of the COSY (CD_3CN) spectrum of **C**A.

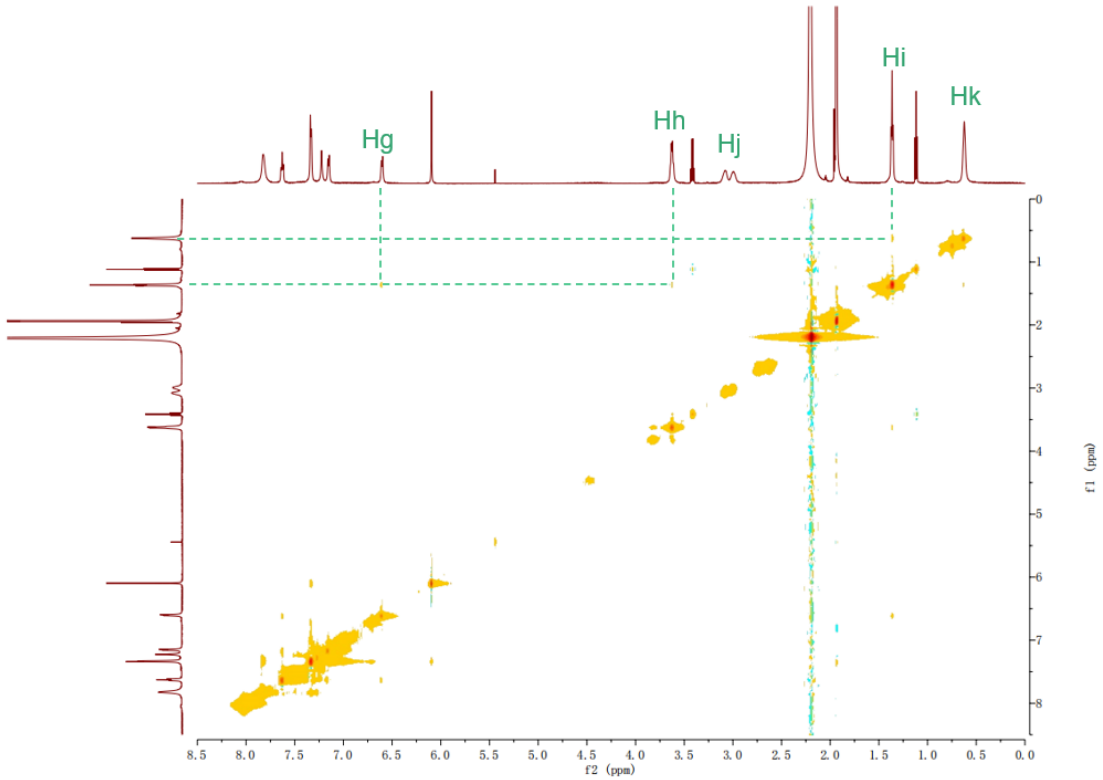
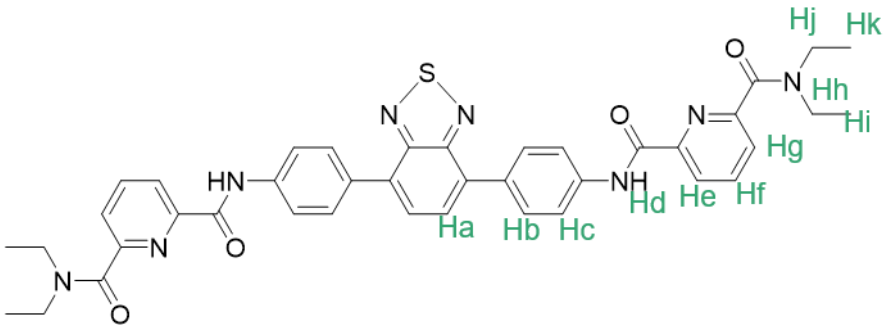


Figure S12. Aromatic region of the NOESY (CD_3CN) spectrum of **C**A.



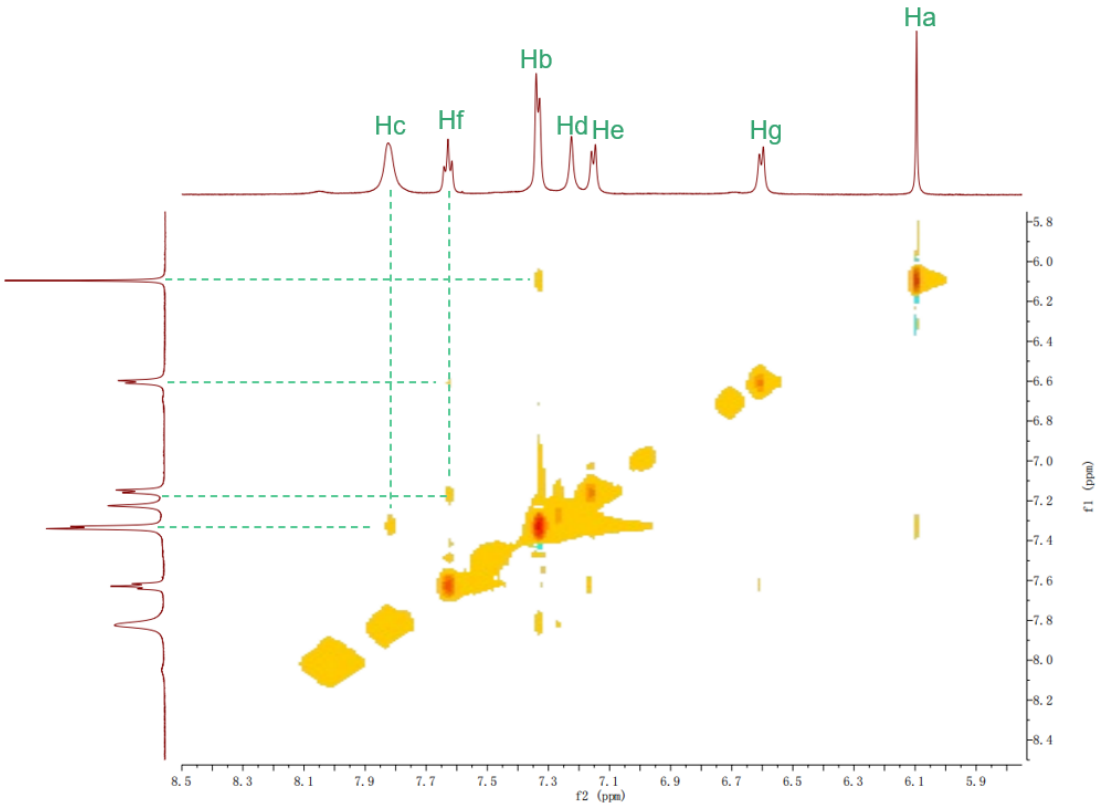


Figure S13. Aromatic region magnification of the NOESY (CD_3CN) spectrum of **C**A.

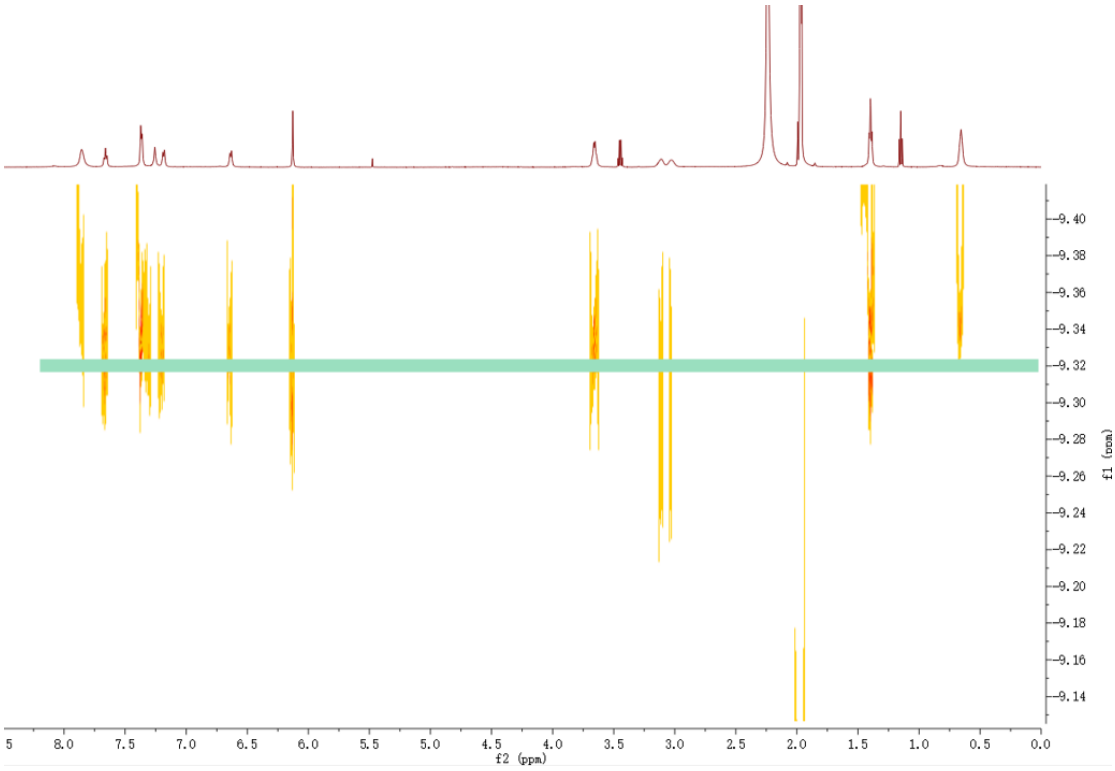


Figure S14. Aromatic region of the DOSY (CD_3CN) spectrum of **C**A.

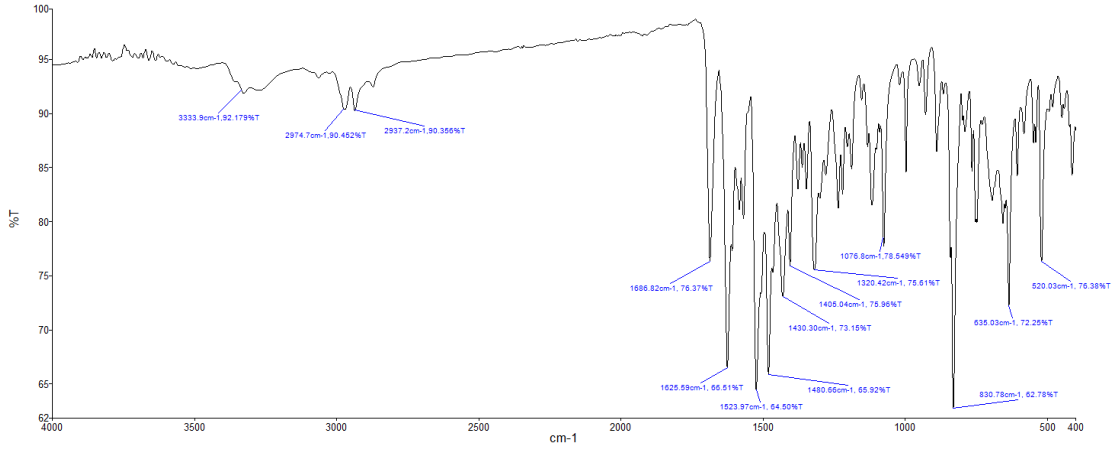


Figure S15. IR spectrum of **L-B**.

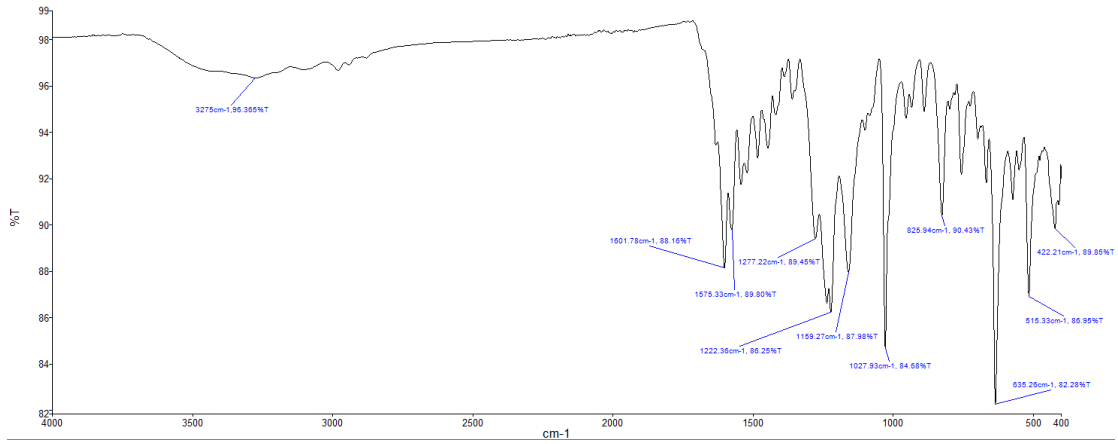


Figure S16. IR spectrum of **C**A.

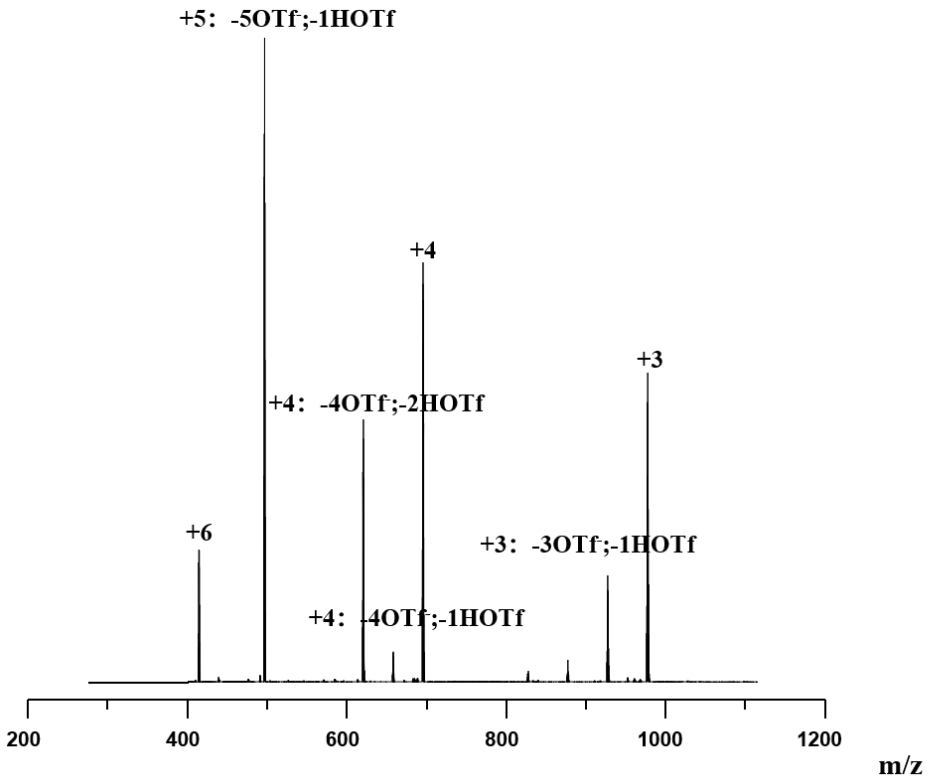


Figure S17. ESI-MS spectrum of **C**A.

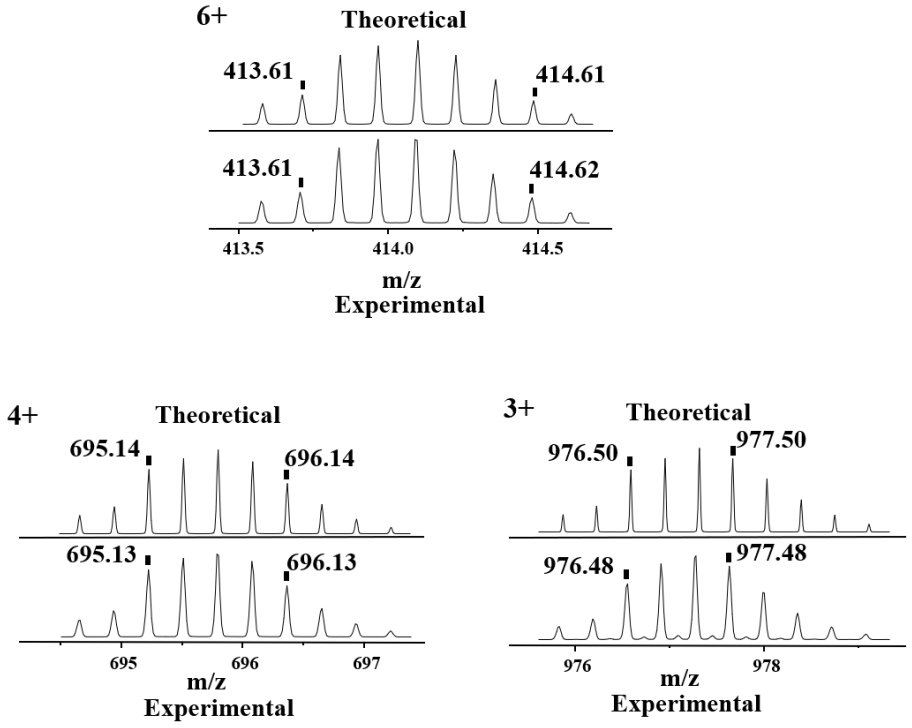


Figure S18. Calculated (top) and Measured (bottom) isotope patterns for different charge states observed from **C**A (OTf^- as counterion).

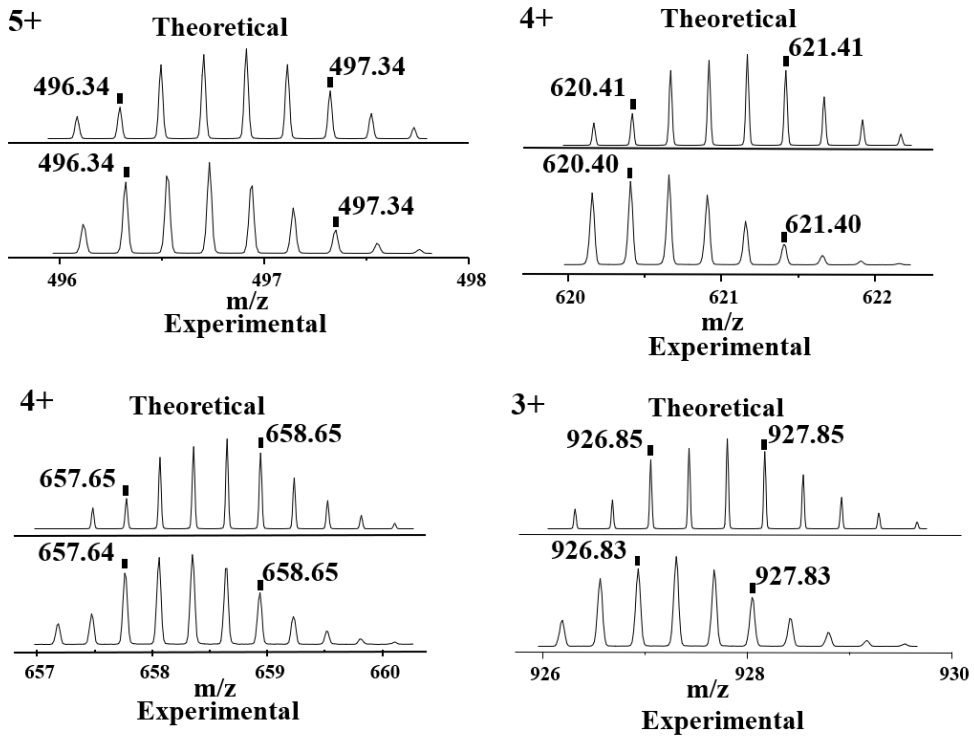


Figure S19. Calculated (top) and Measured (bottom) isotope patterns for different charge states observed from **C**$_A$ (OTf^- and HOTf as counterion).

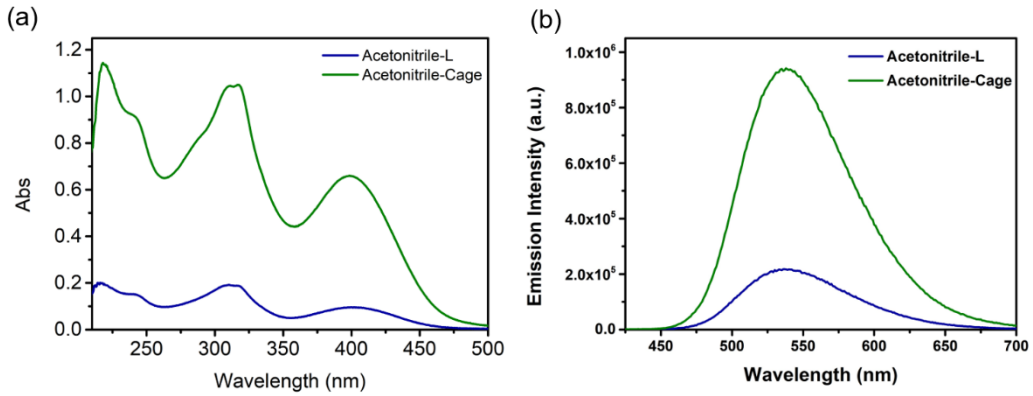


Figure S20. Optical properties of **C**$_A$ and **L-B** in acetonitrile (c=50 ug/mL). (a) UV–Vis absorption. (b) PL emission spectra (λex = 400 nm).

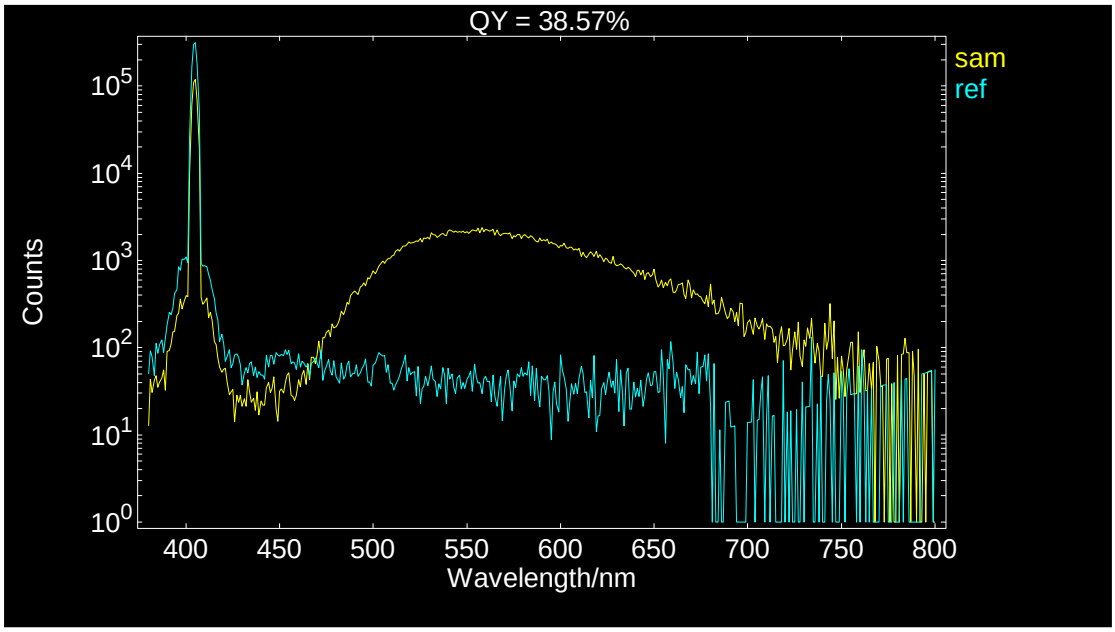


Figure S21. the absolute PL quantum yield of $\mathbf{C_A}$ in acetonitrile (c=50 ug/mL).

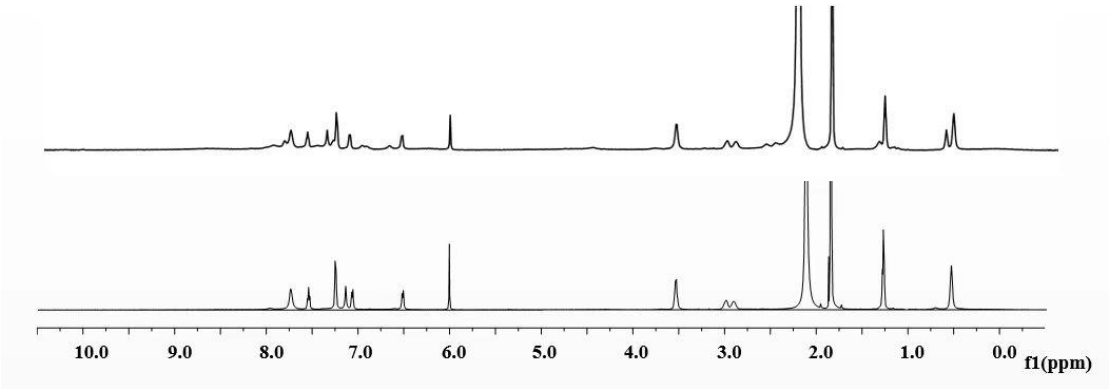


Figure S22. ^{1}H NMR spectra (600 MHz, CD_3CN, 298 K) of $\mathbf{C_A}$ + DMEM. (up), and $\mathbf{C_A}$. (down).