

Supporting Information

Figure S1. ^1H -NMR spectrum of compound (*2E,4E*)-**4a** (300 MHz, CDCl_3).

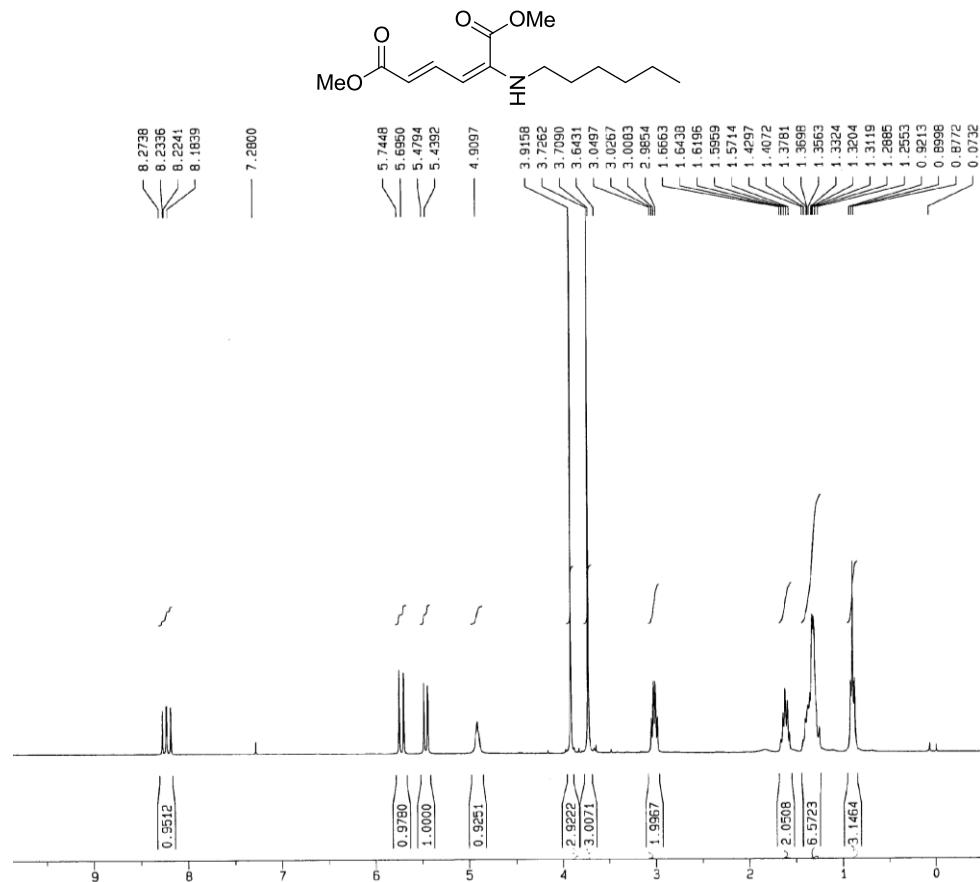


Figure S2. ^{13}C -NMR spectrum of compound (*2E,4E*)-**4a** (75 MHz, CDCl_3).

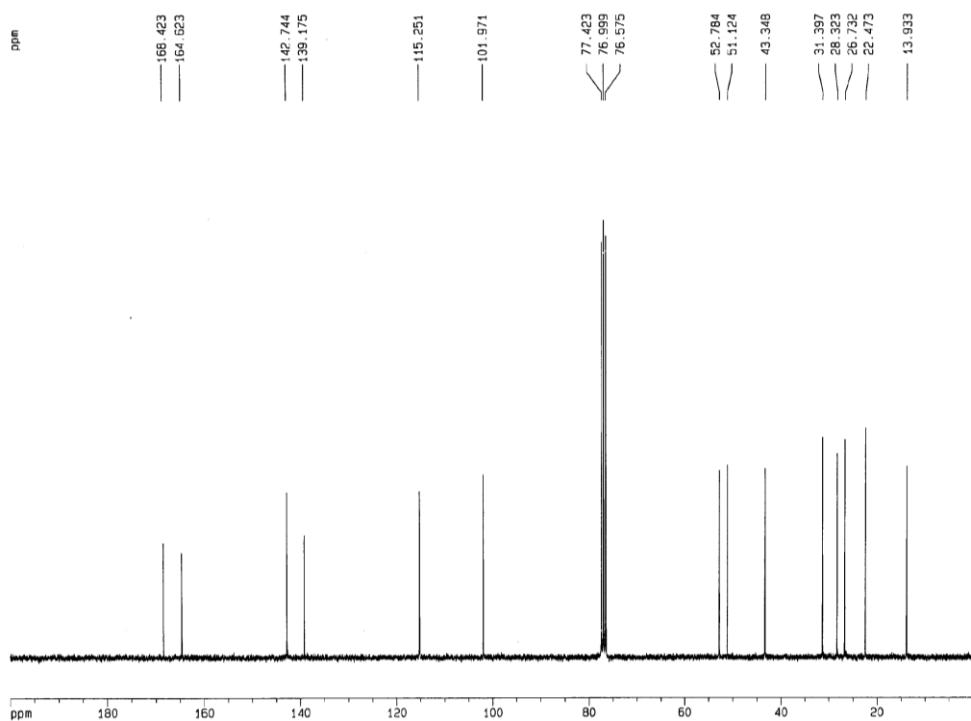


Figure S3. ^1H -NMR spectrum of compound (**2E,4E**)-**4b** (300 MHz, CDCl_3).

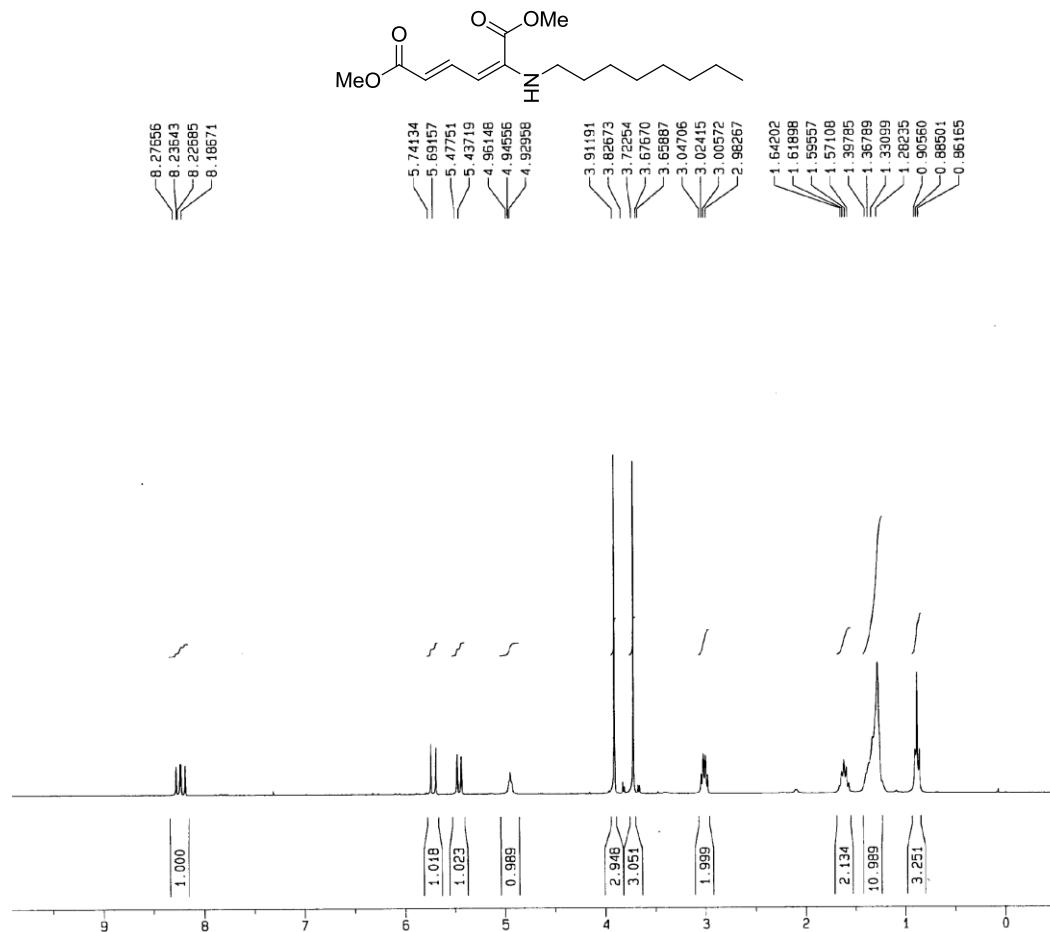


Figure S4. ^{13}C -NMR spectrum of compound (*2E,4E*)-**4b** (75 MHz, CDCl_3).

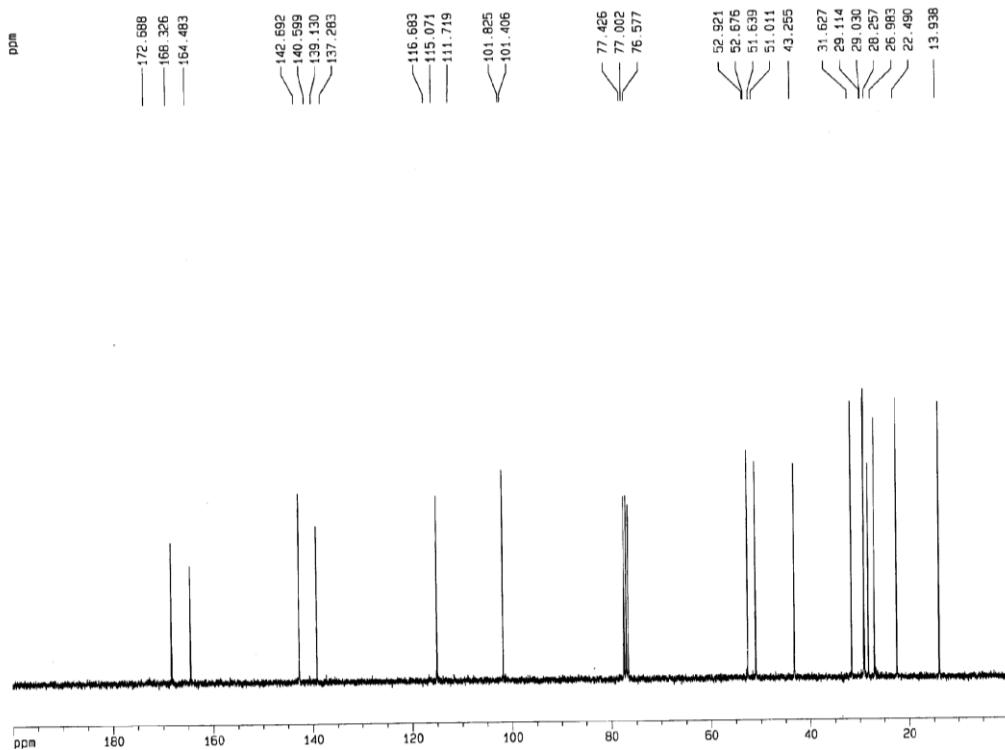


Figure S5. ^1H -NMR spectrum of compound **(2E,4E)-4c** (300 MHz, CDCl_3).

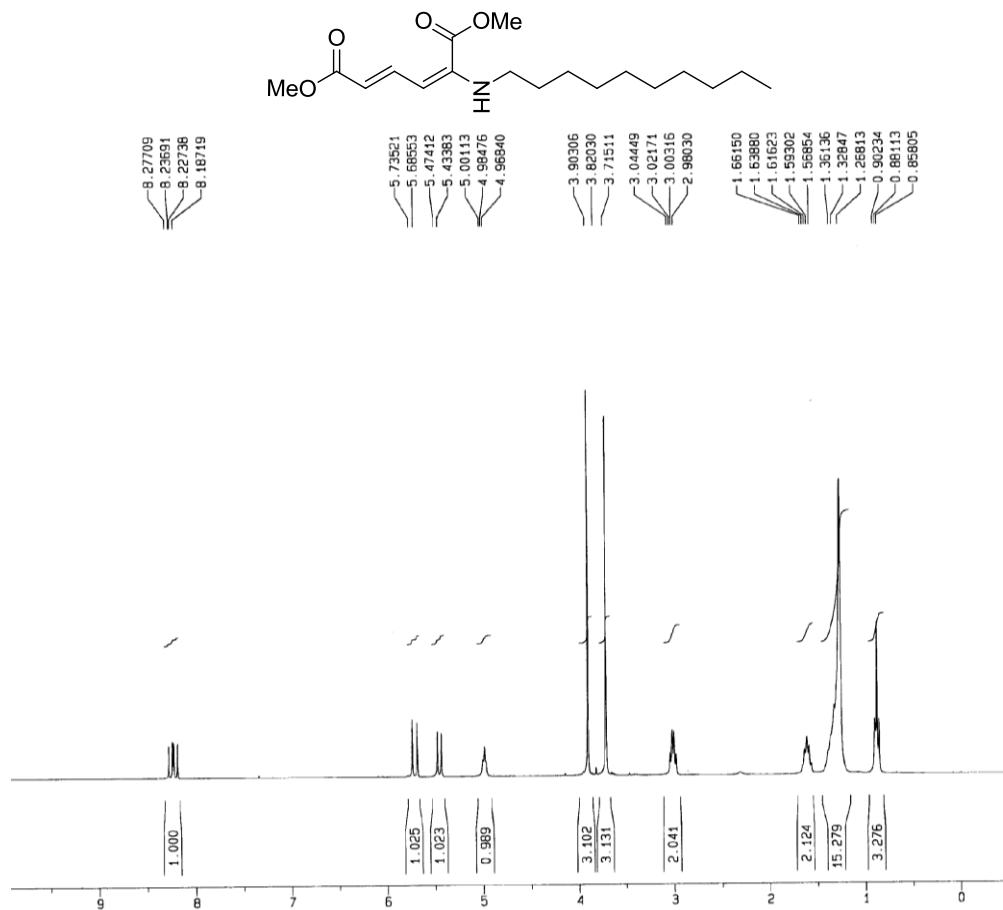


Figure S6. ^{13}C -NMR spectrum of compound (*2E,4E*)-4c (75 MHz, CDCl_3).

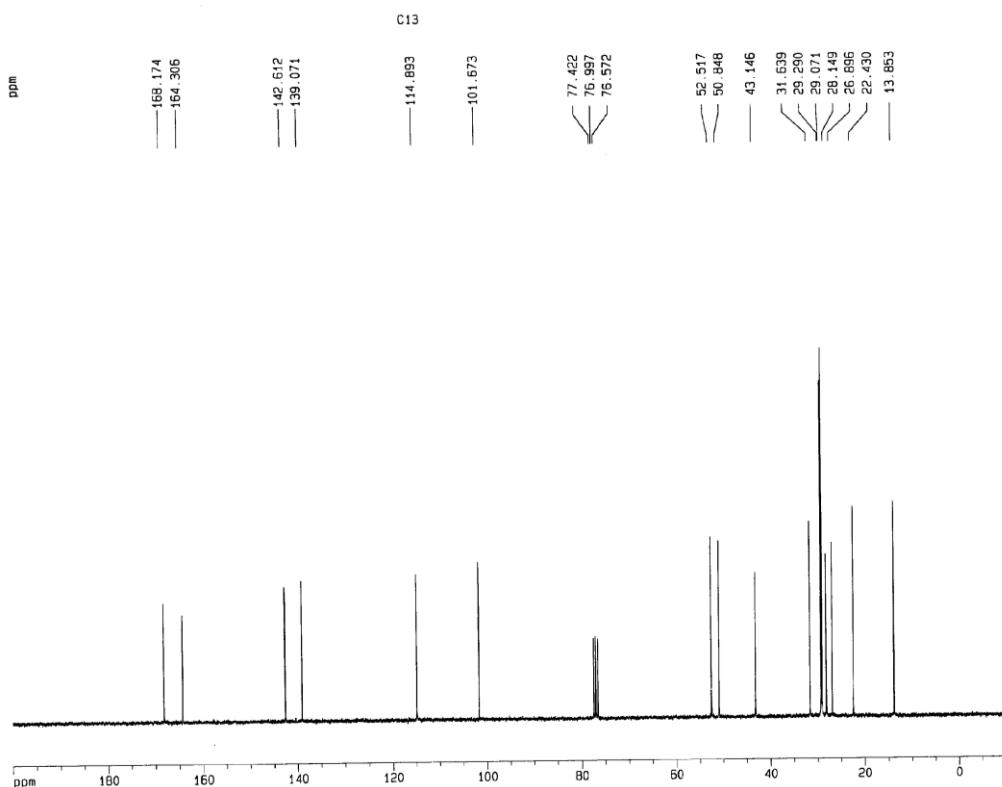


Figure S7. ^1H -NMR spectrum of compound (**2E,4E**)-**4d** (300 MHz, CDCl_3).

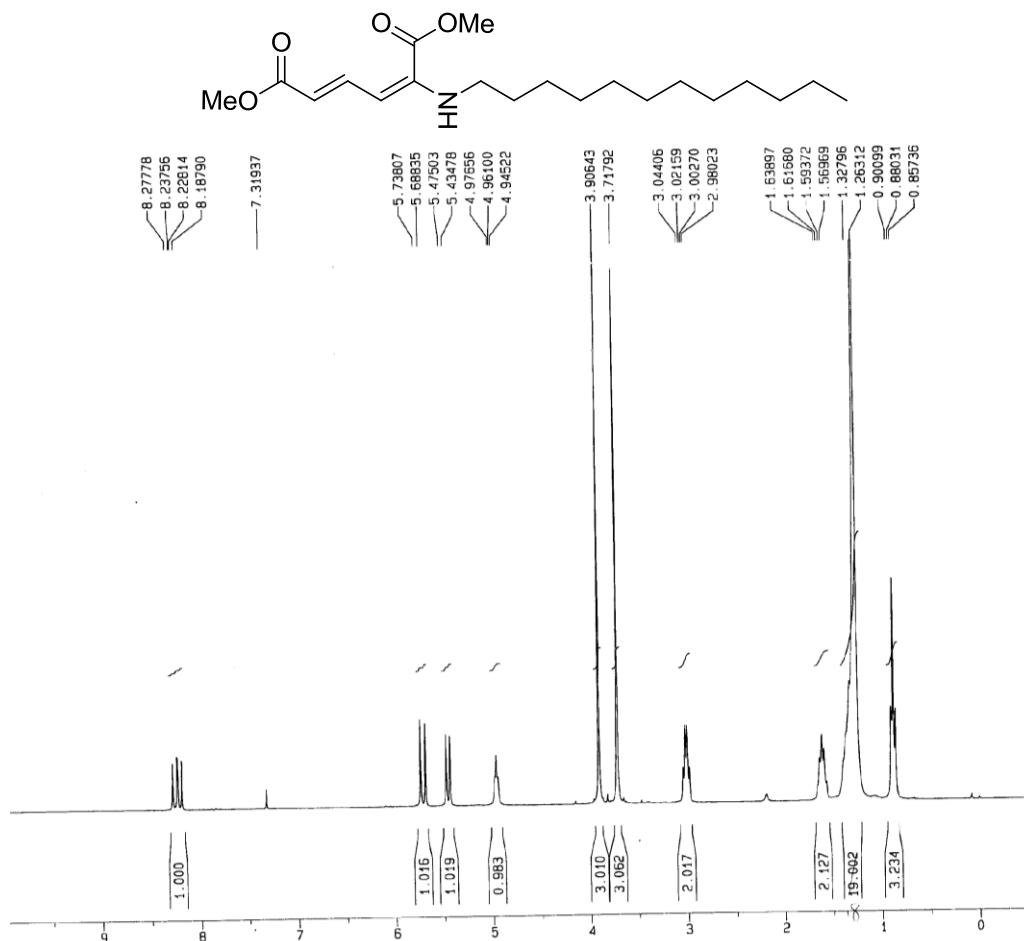


Figure S8. ^{13}C -NMR spectrum of compound (**2E,4E**)-**4d** (75 MHz, CDCl_3)

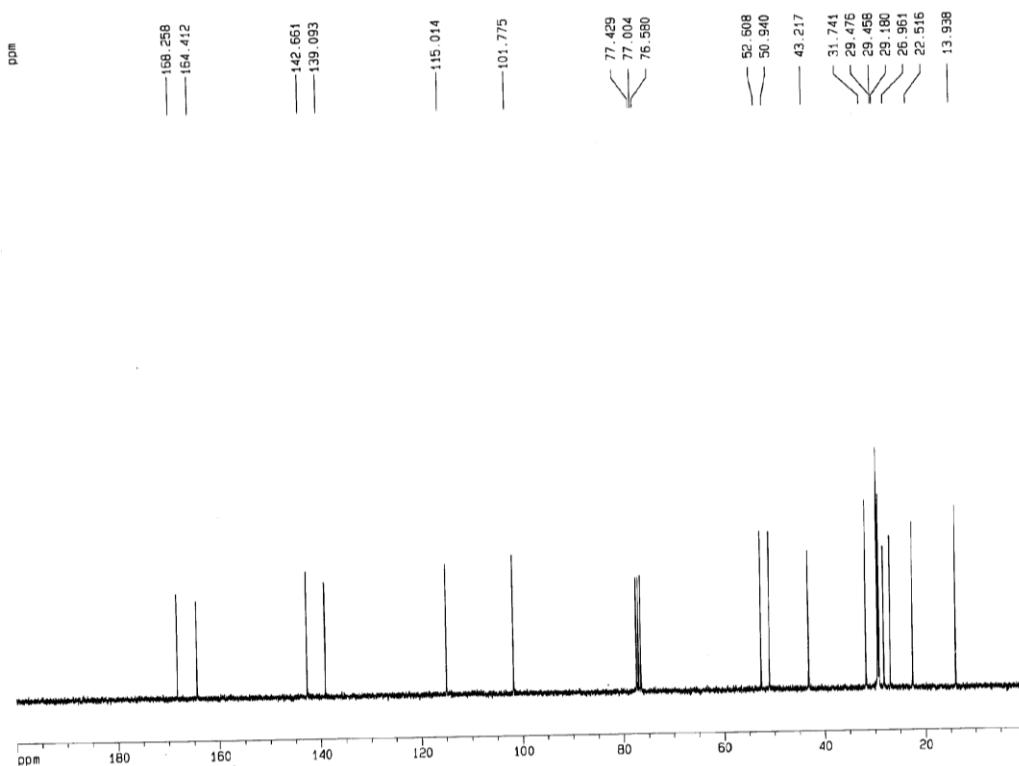


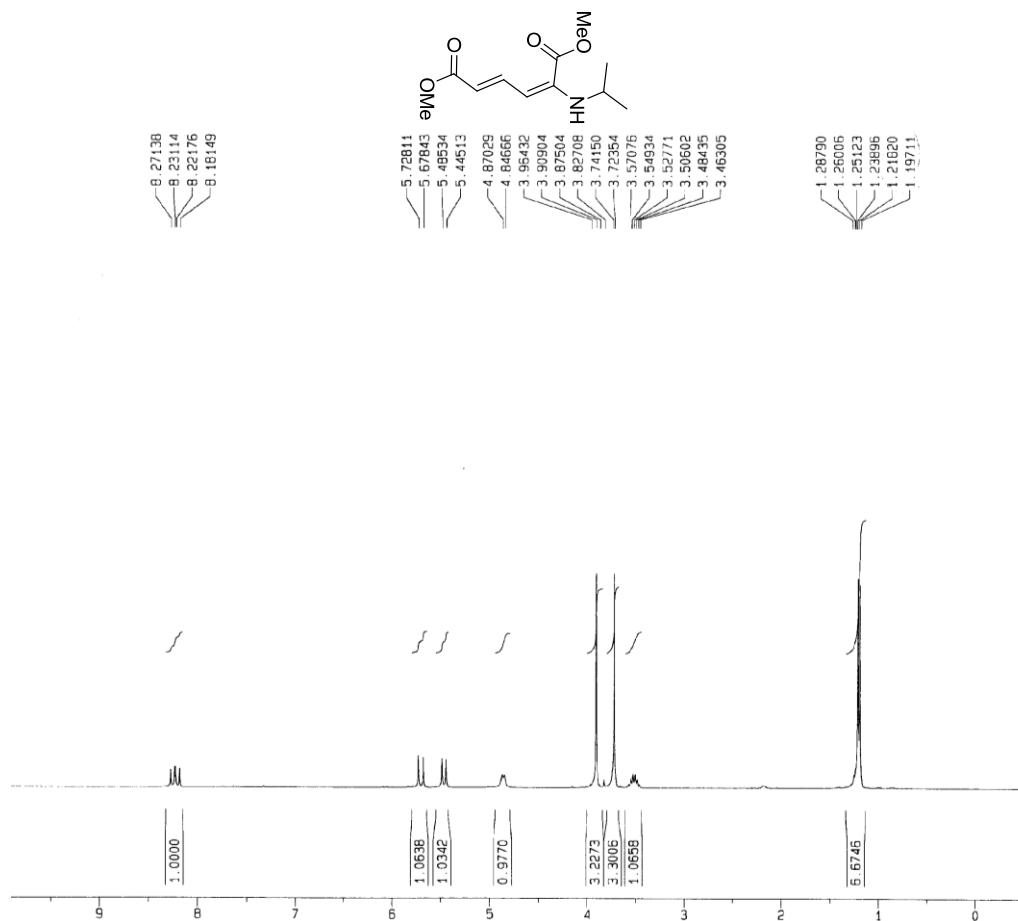
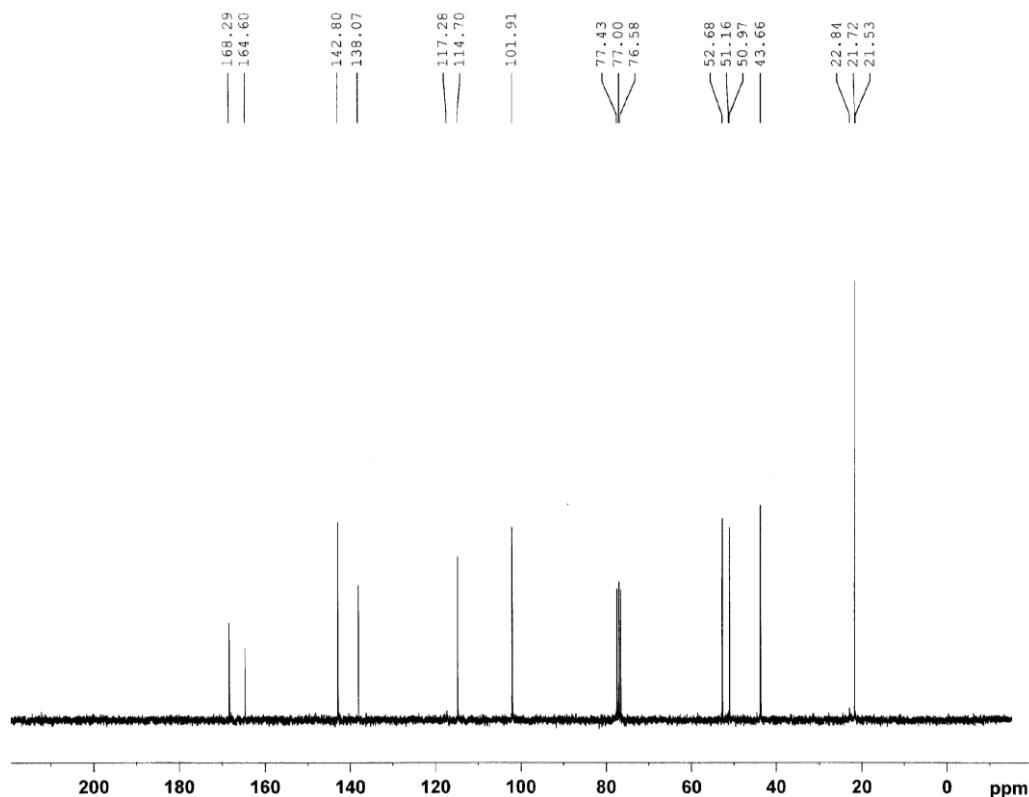
Figure S9. ^1H -NMR spectrum of compound (*2E,4E*)-4f (300 MHz, CDCl_3).**Figure S10.** ^{13}C -NMR spectrum of compound (*2E,4E*)-4f (75 MHz, CDCl_3).

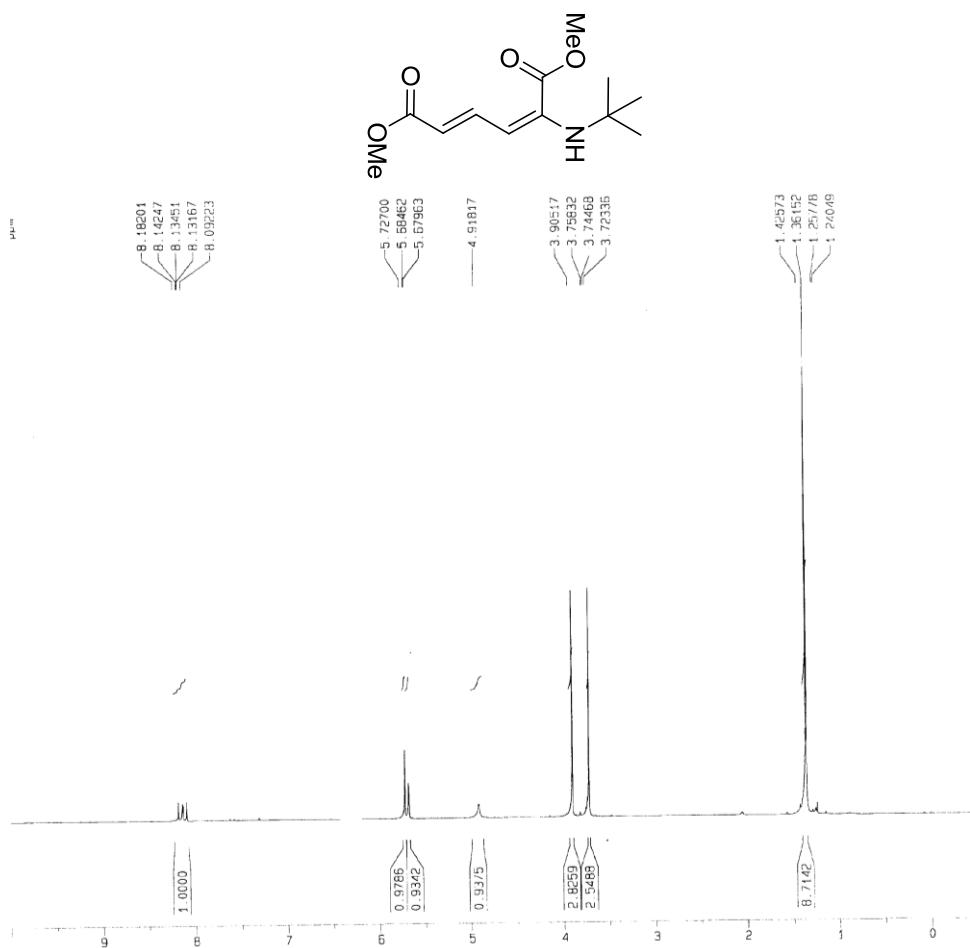
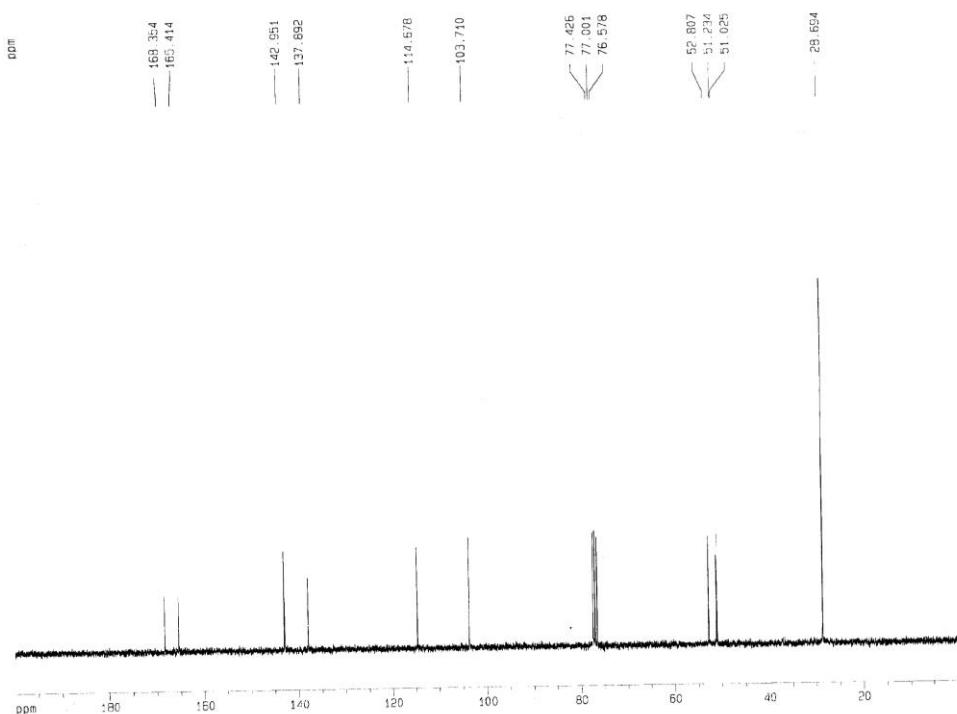
Figure S11. ^1H -NMR spectrum of compound (*2E,4E*)-**4g** (300 MHz, CDCl_3).**Figure S12.** ^{13}C -NMR spectrum of compound (*2E,4E*)-**4g** (75 MHz, CDCl_3).

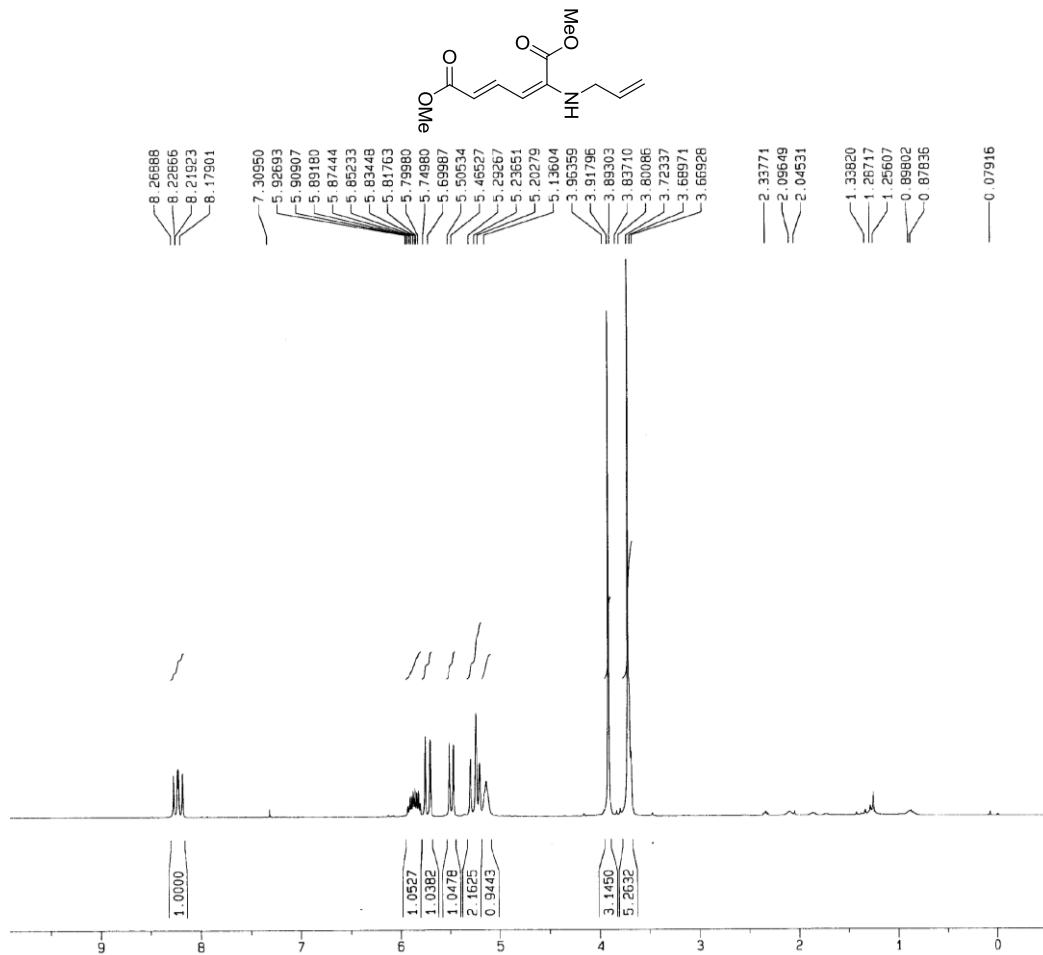
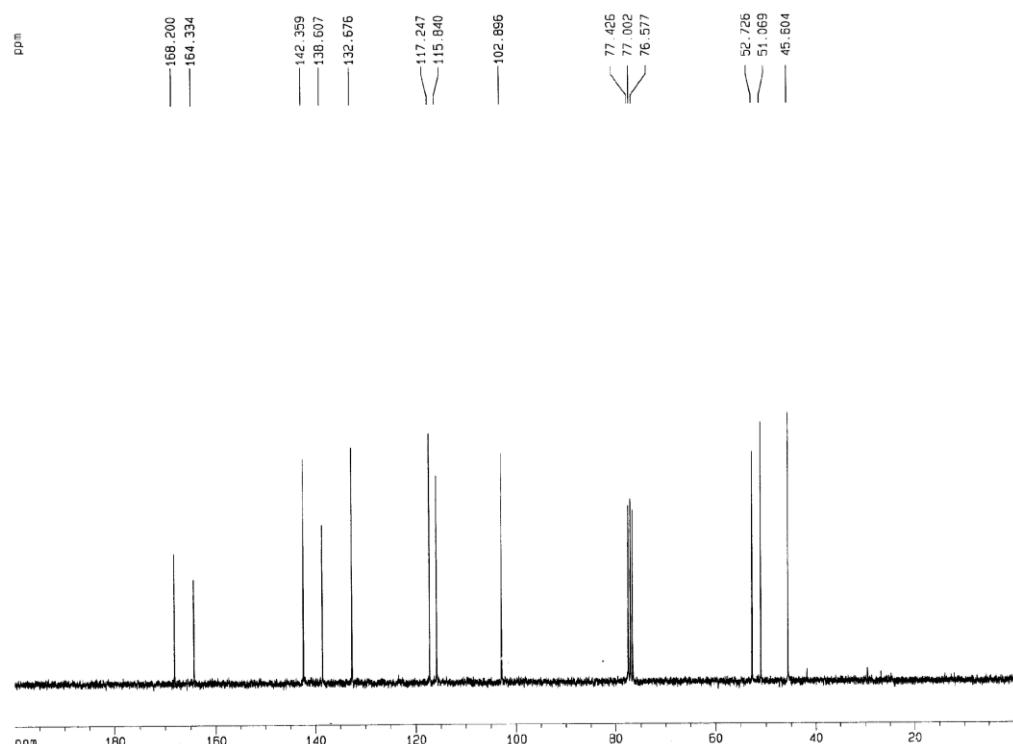
Figure S13. ^1H -NMR spectrum of compound (*2E,4E*)-**4h** (300 MHz, CDCl_3).**Figure S14.** ^{13}C -NMR spectrum of compound (*2E,4E*)-**4h** (75 MHz, CDCl_3).

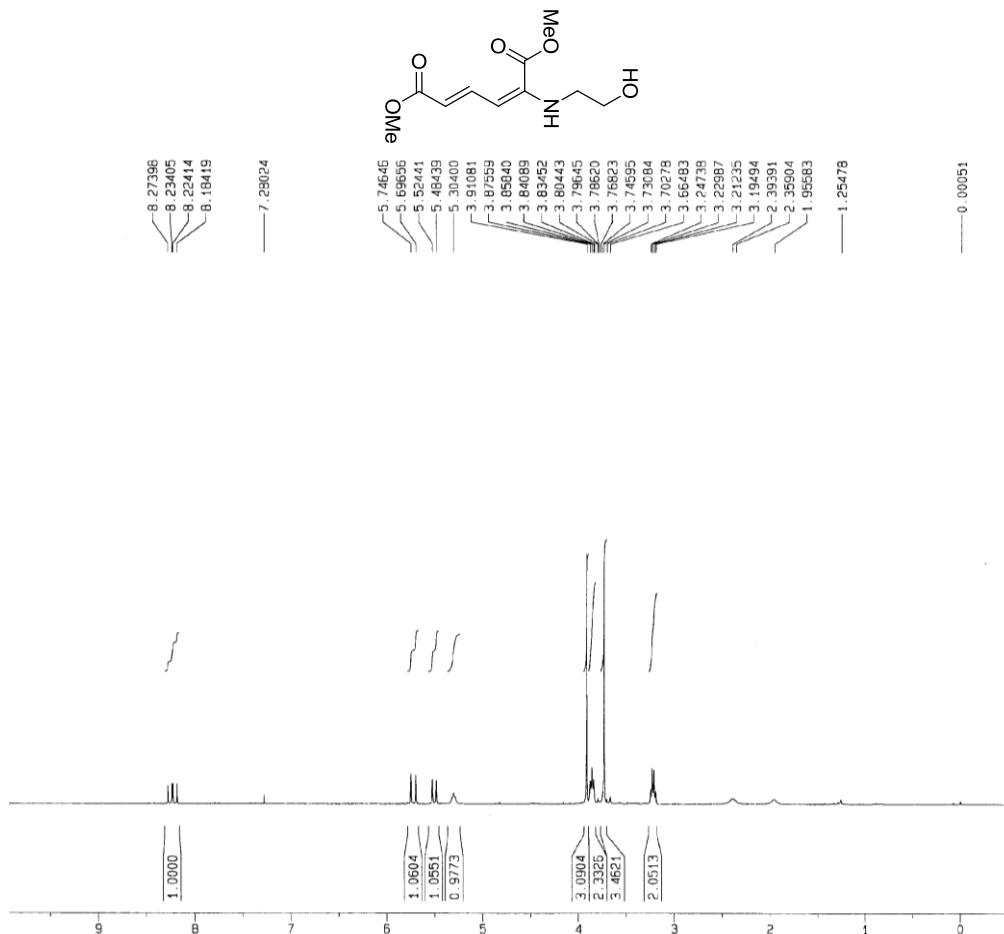
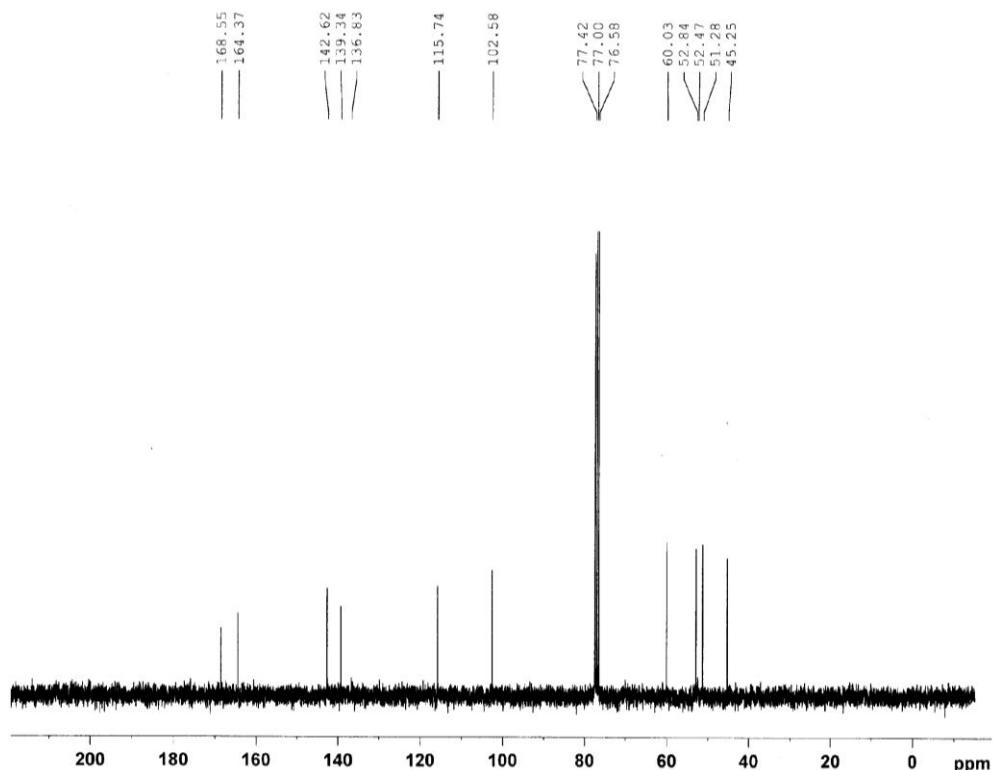
Figure S15. ^1H -NMR spectrum of compound (**2E,4E**)-**4i** (300 MHz, CDCl_3).**Figure S16.** ^{13}C -NMR spectrum of compound (**2E,4E**)-**4i** (75 MHz, CDCl_3).

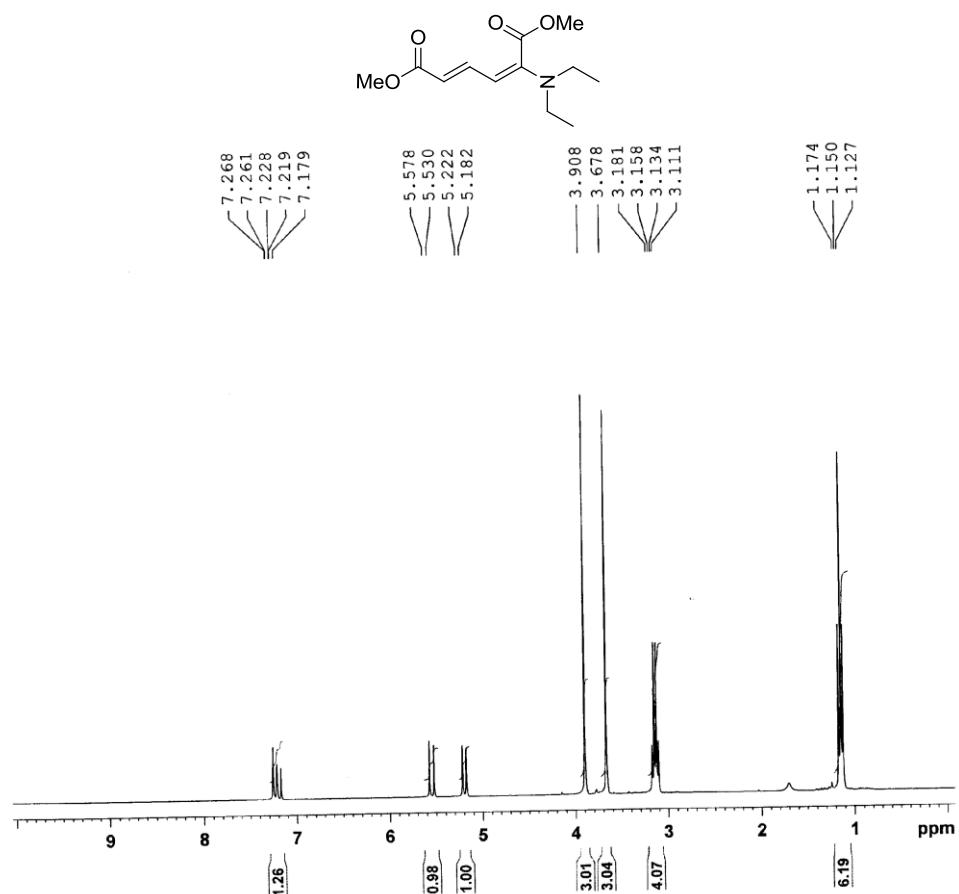
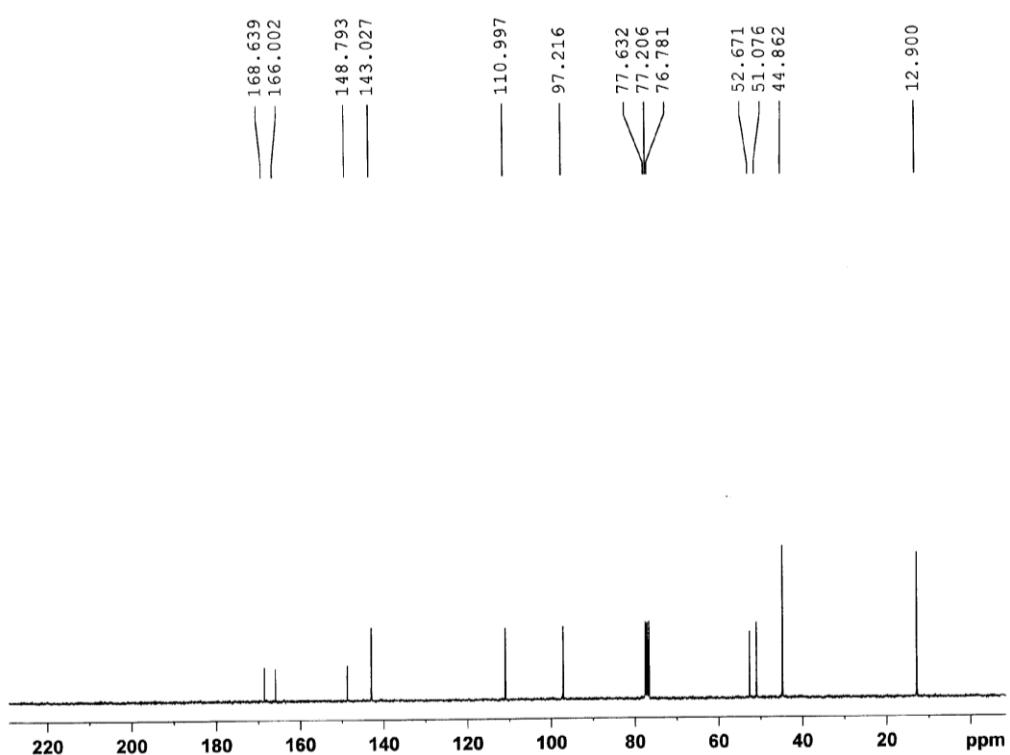
Figure S17. ^1H -NMR spectrum of compound (**2E,4E**)-**4j** (300 MHz, CDCl_3).**Figure S18.** ^{13}C -NMR spectrum of compound (**2E,4E**)-**4j** (75 MHz, CDCl_3).

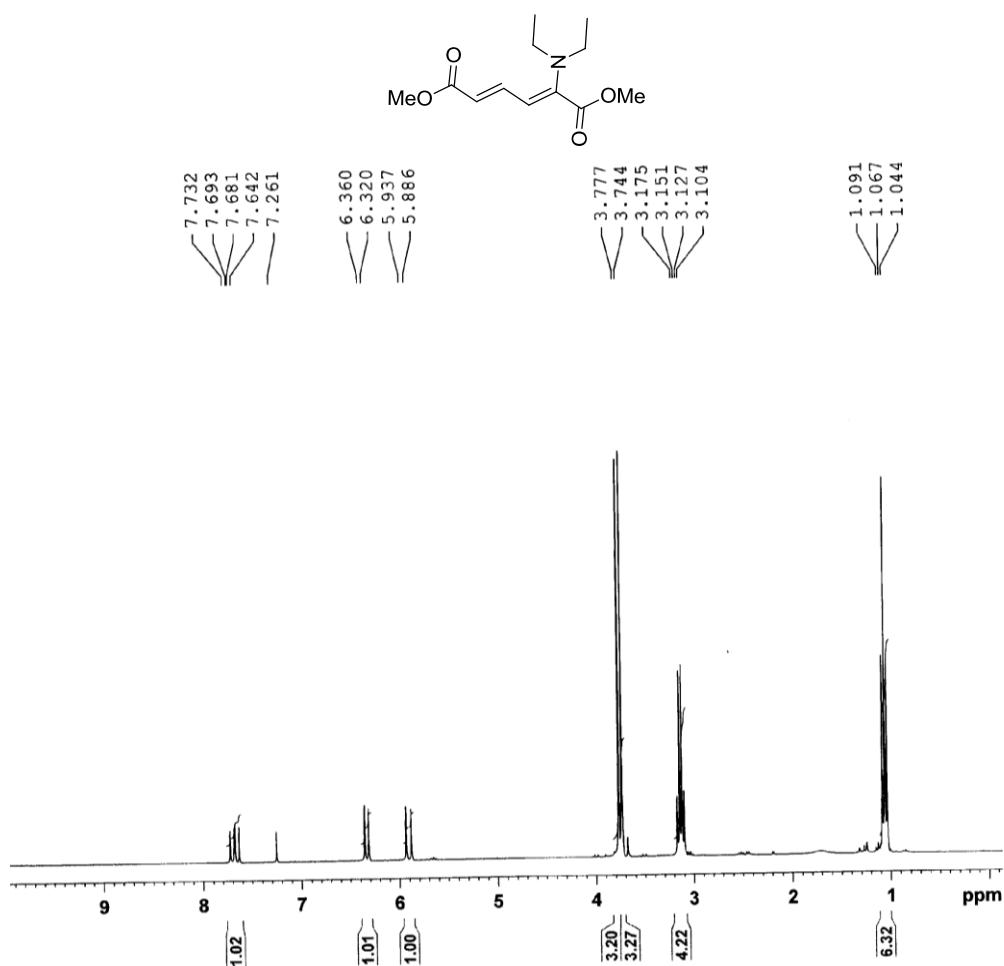
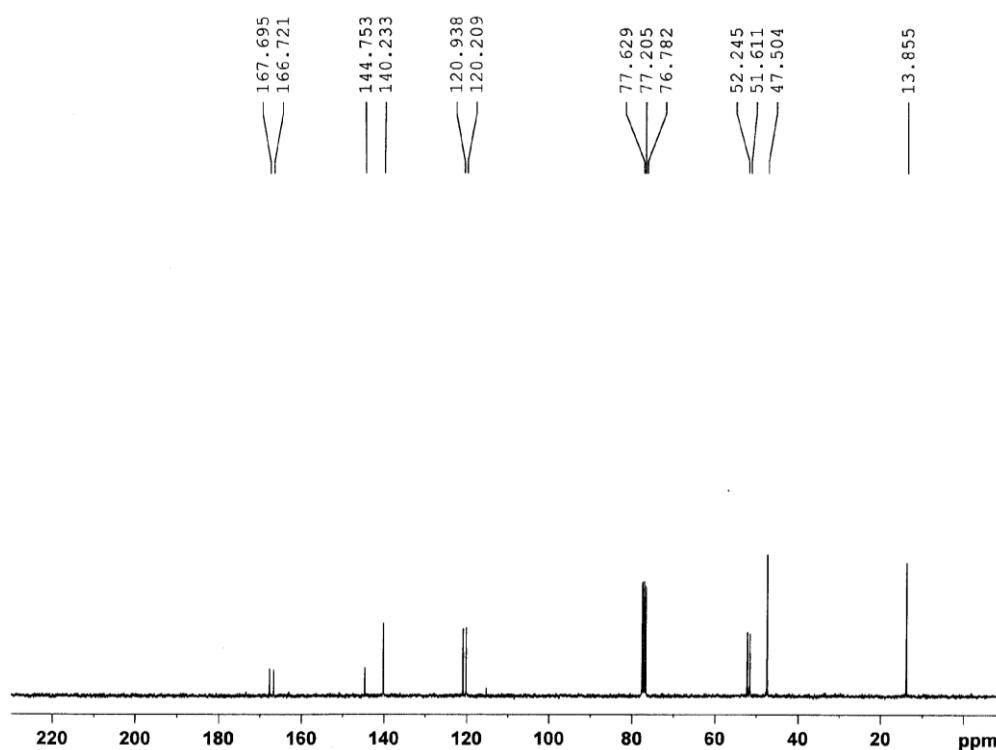
Figure S19. ^1H -NMR spectrum of compound (**2Z,4E**)-**4j** (300 MHz, CDCl_3).**Figure S20.** ^{13}C -NMR spectrum of compound (**2Z,4E**)-**4j** (75 MHz, CDCl_3).

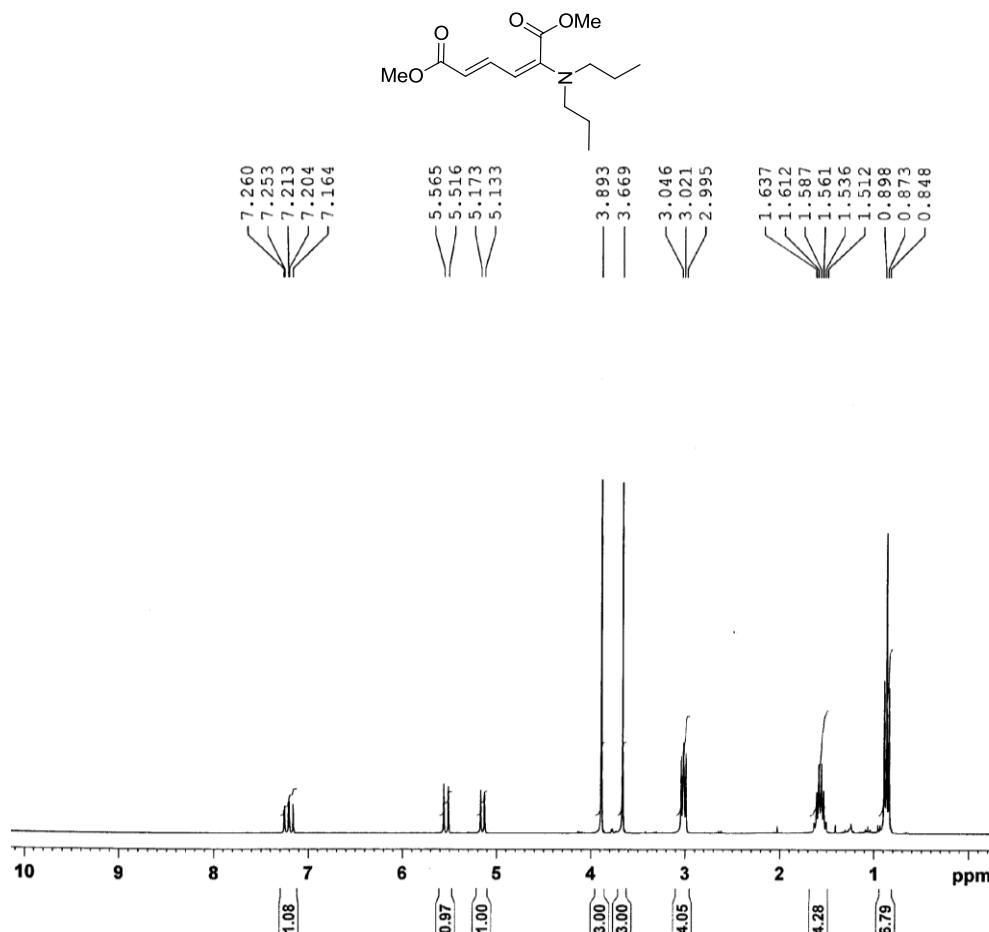
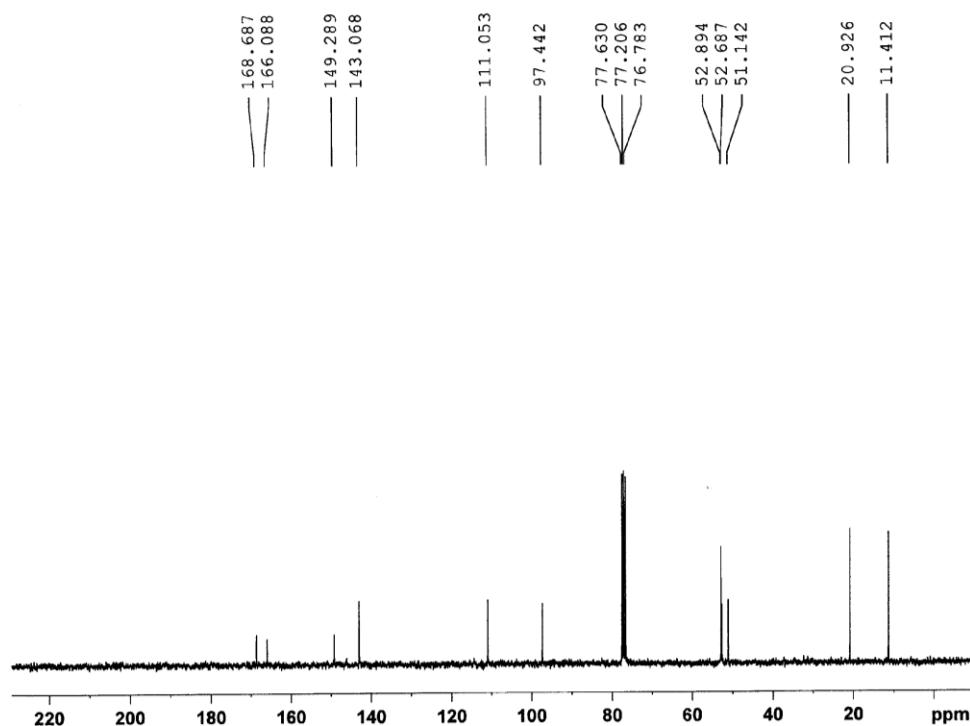
Figure S21. ^1H -NMR spectrum of compound (*2E,4E*)-4k (300 MHz, CDCl_3).**Figure S22.** ^{13}C -NMR spectrum of compound (*2E,4E*)-4k (75 MHz, CDCl_3).

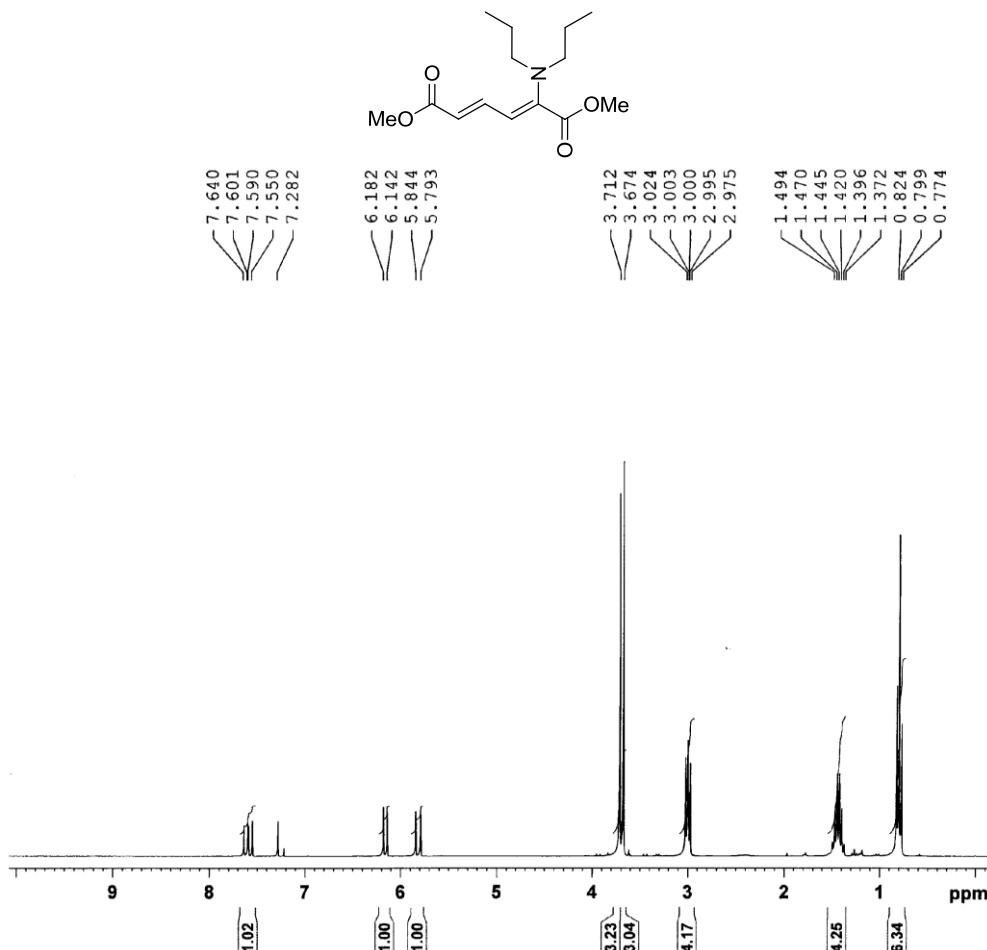
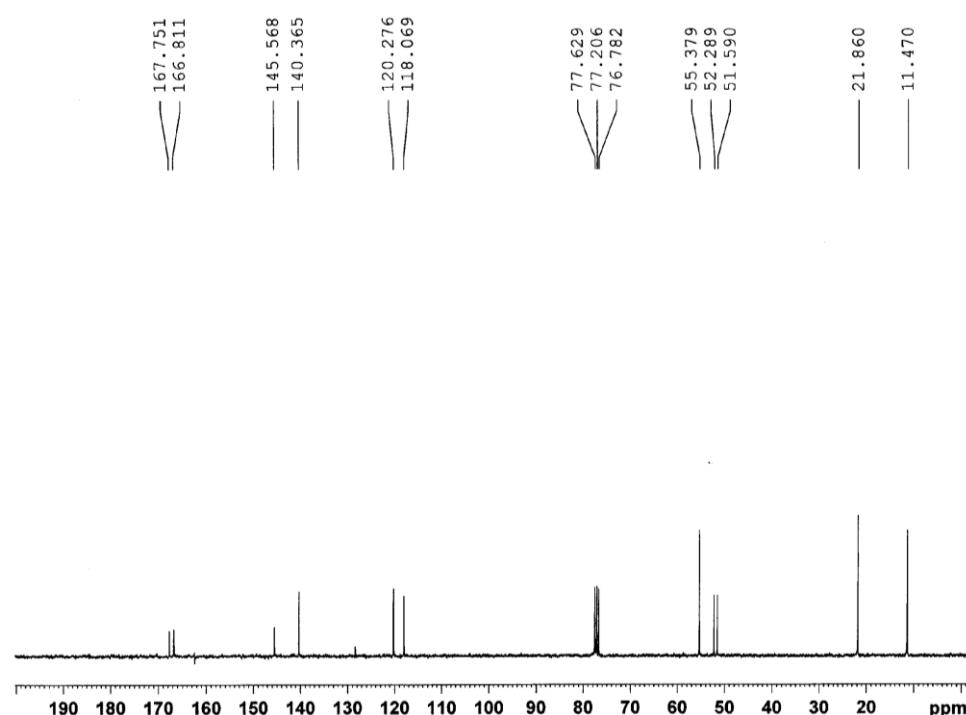
Figure S23. ^1H -NMR spectrum of compound **(2Z,4E)-4k** (300 MHz, CDCl_3).**Figure S24.** ^{13}C -NMR spectrum of compound **(2Z,4E)-4k** (75 MHz, CDCl_3).

Figure S25. ^1H -NMR spectrum of compound (*2E,4E*)-**4l** (300 MHz, CDCl_3).

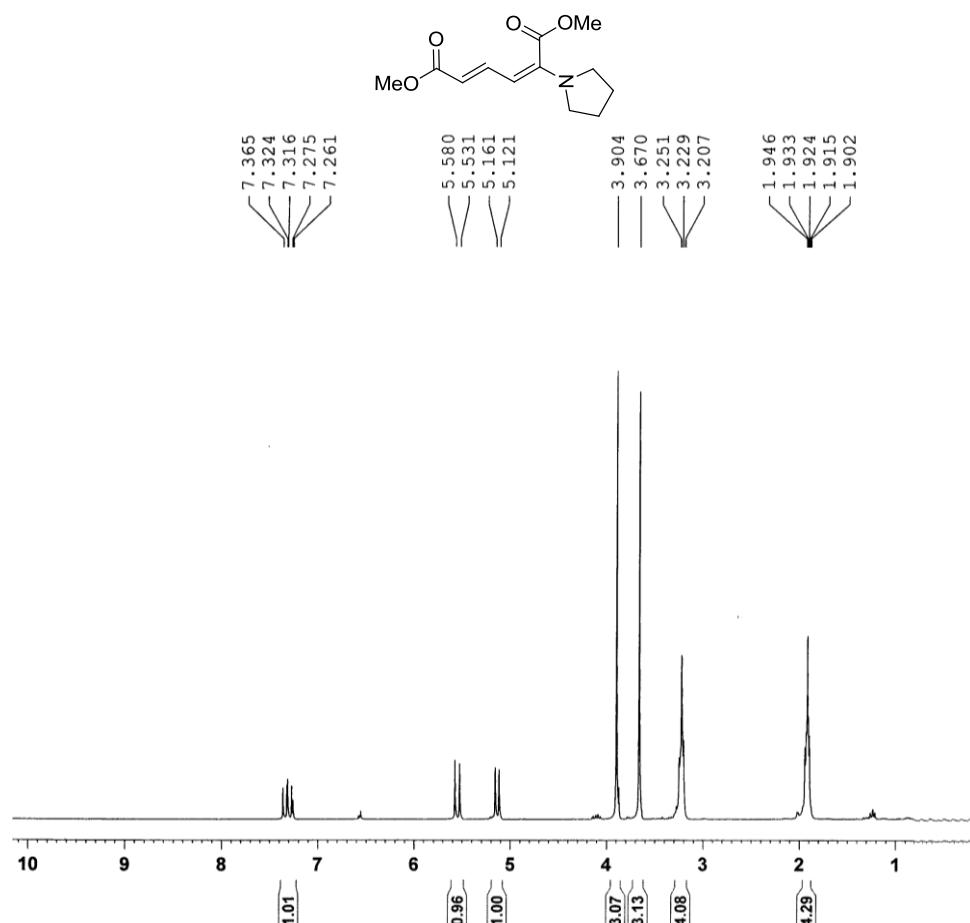


Figure S26. ^{13}C -NMR spectrum of compound (*2E,4E*)-**4l** (75 MHz, CDCl_3).

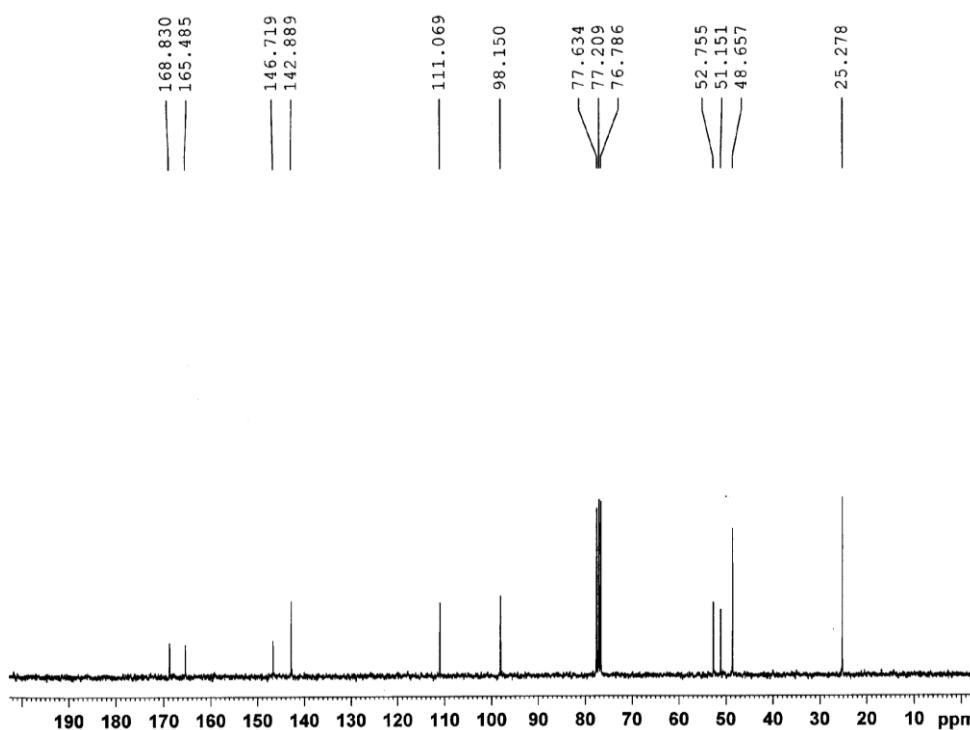


Figure S27. ^1H -NMR spectrum of compound (*2Z,4E*)-4l (300 MHz, CDCl_3).

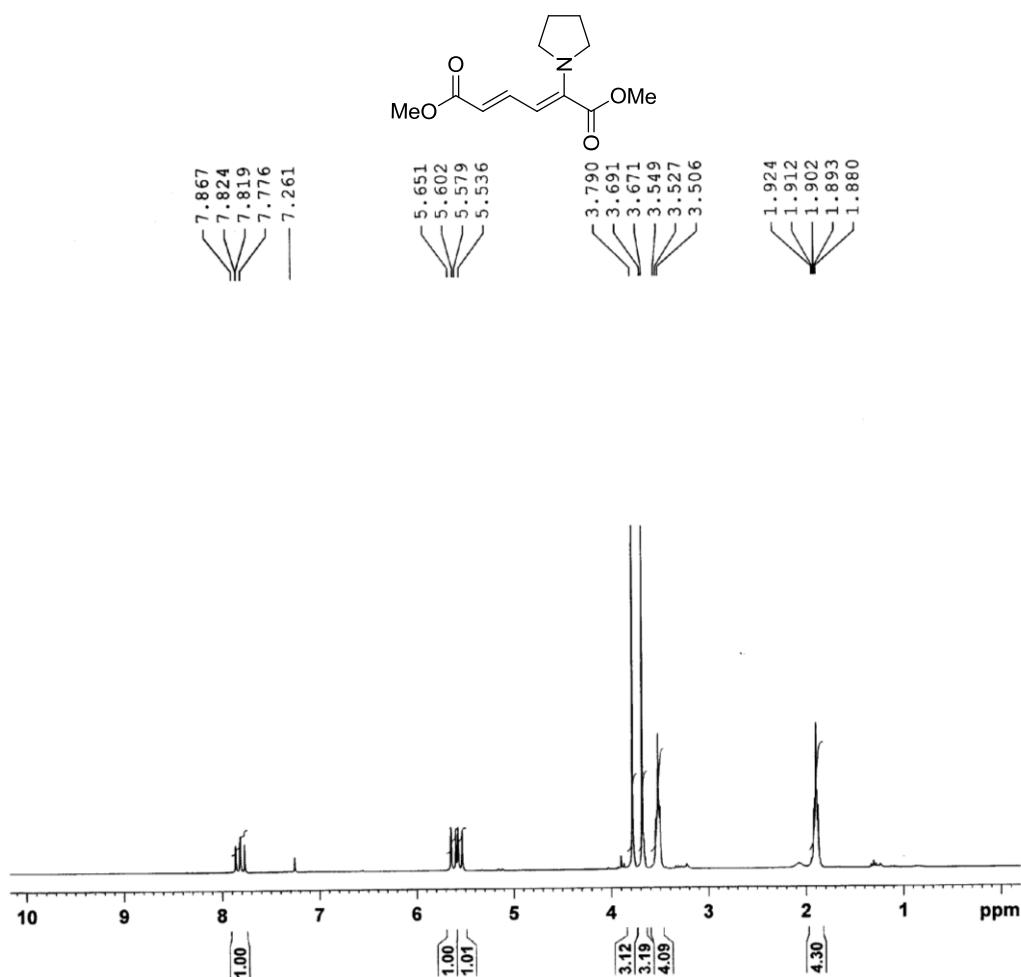


Figure S28. ^{13}C -NMR spectrum of compound (2Z,4E)-4l (75 MHz, CDCl_3).

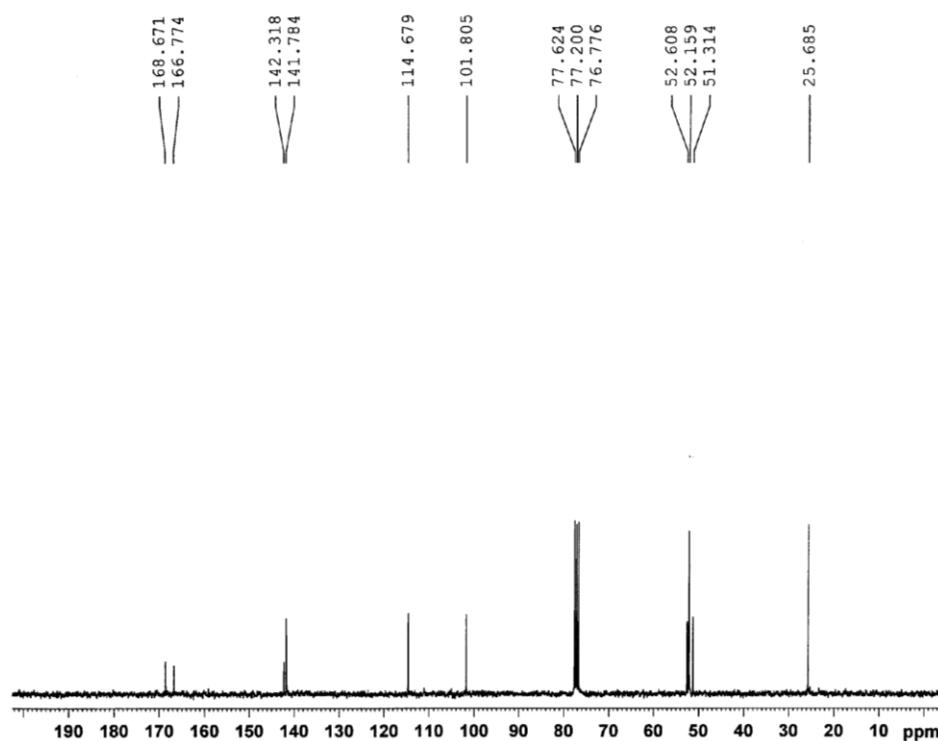


Figure S29. ^1H -NMR spectrum of compound (*2E,4E*)-4m (300 MHz, CDCl_3).

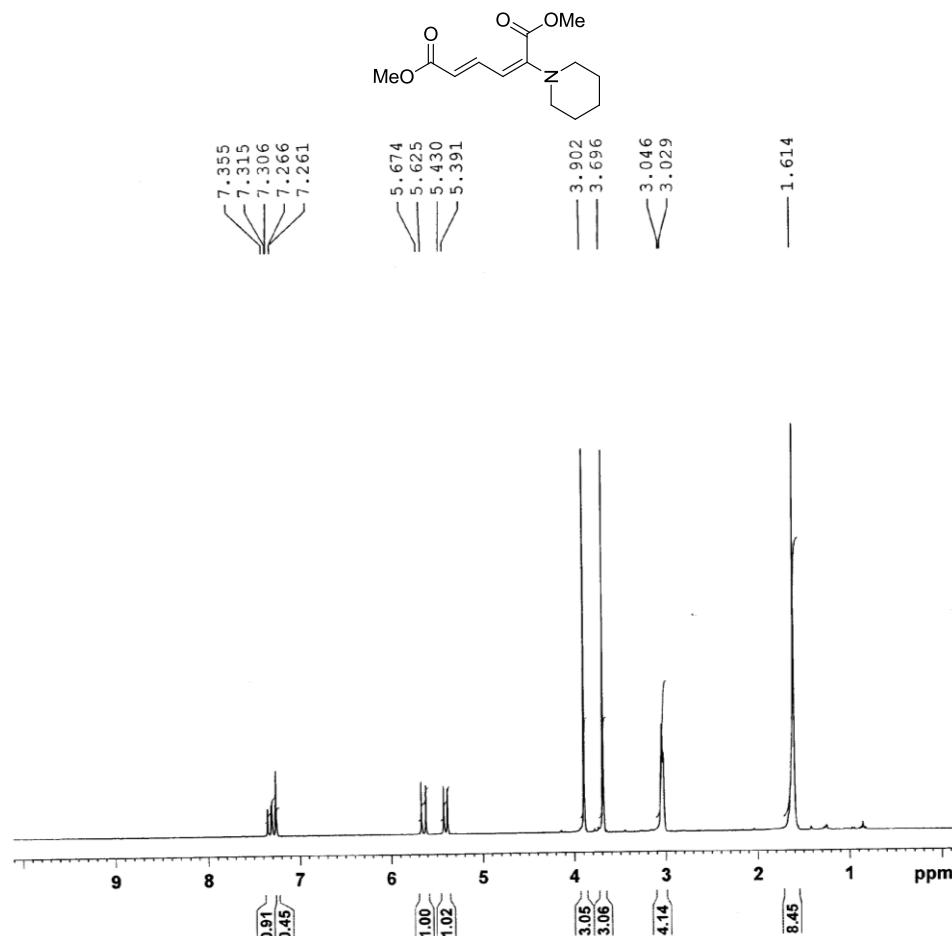


Figure S30. ^{13}C -NMR spectrum of compound (*2E,4E*)-4m (75 MHz, CDCl_3).

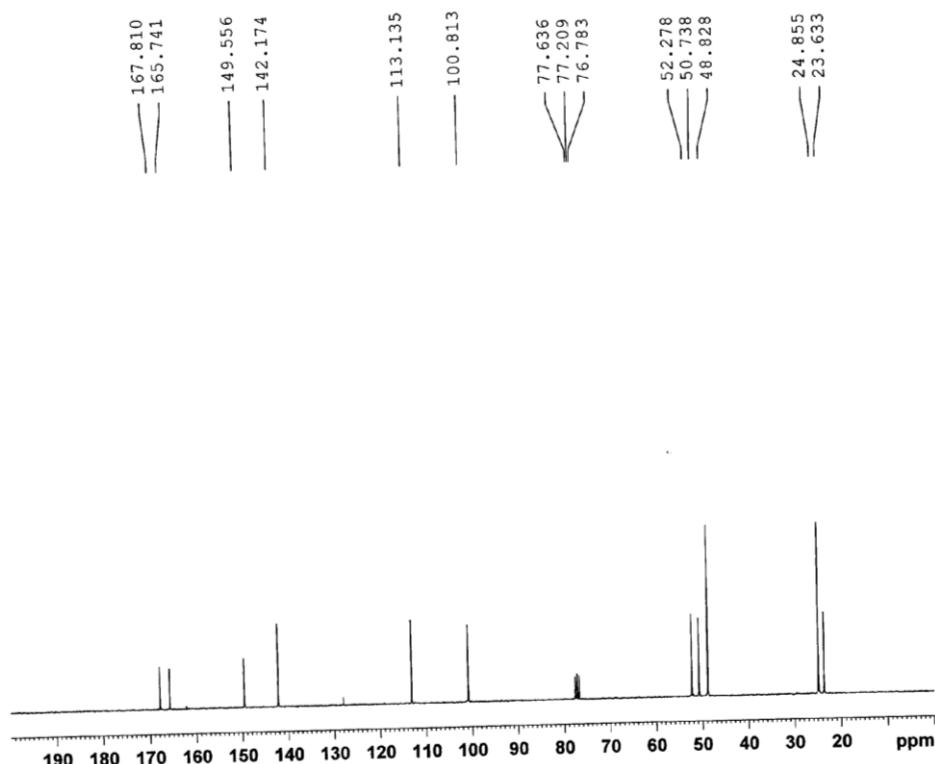


Figure S31. ^1H -NMR spectrum of compound (*2Z,4E*)-4m (300 MHz, CDCl_3).

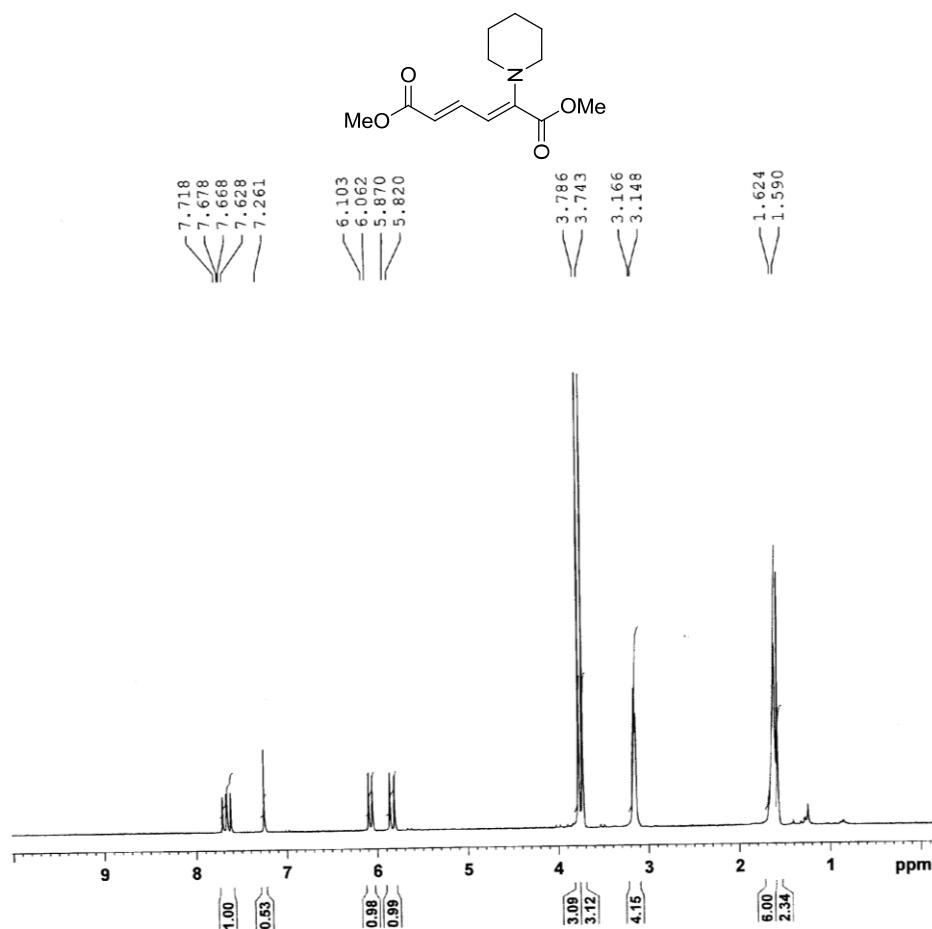


Figure S32. ^{13}C -NMR spectrum of compound (*2Z,4E*)-4m (75 MHz, CDCl_3).

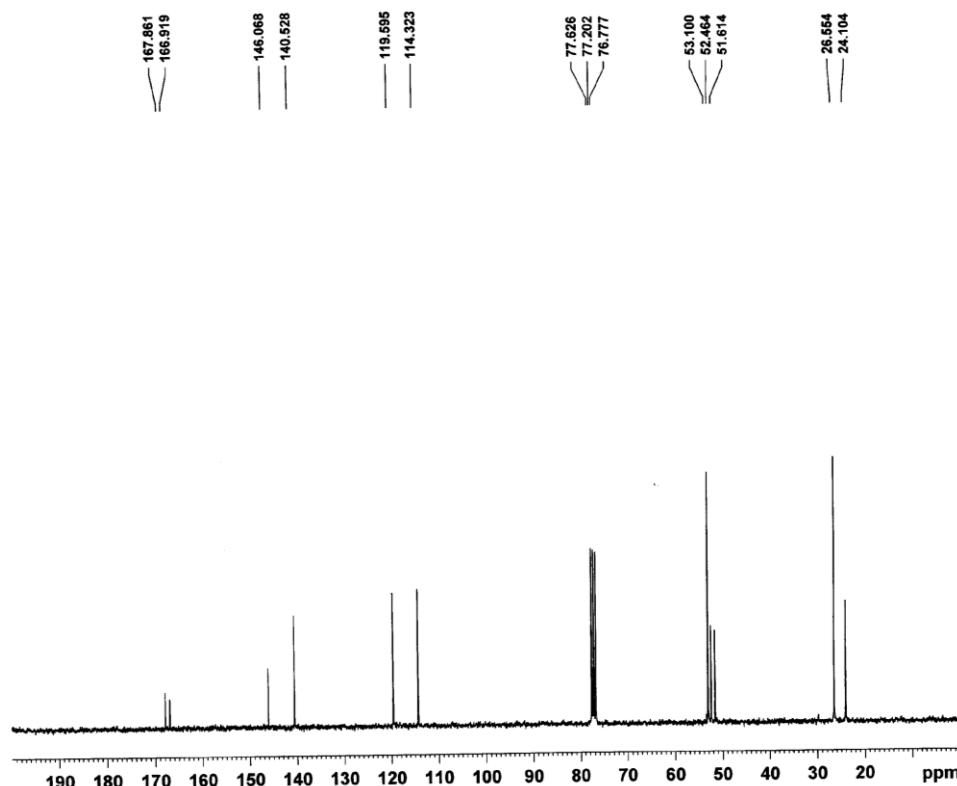


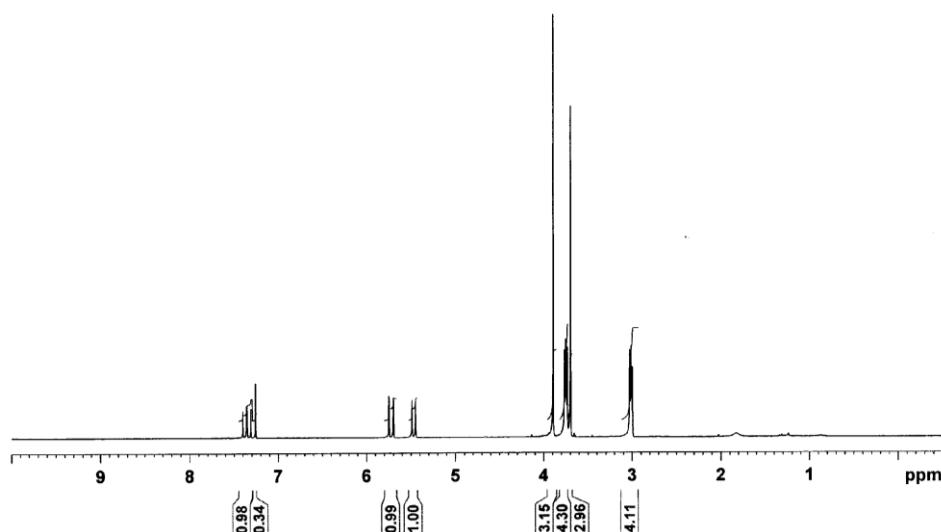
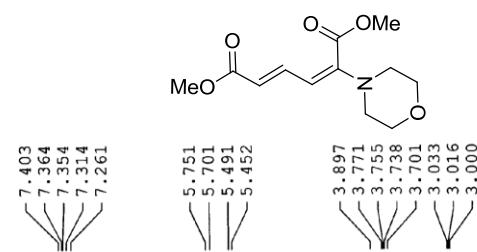
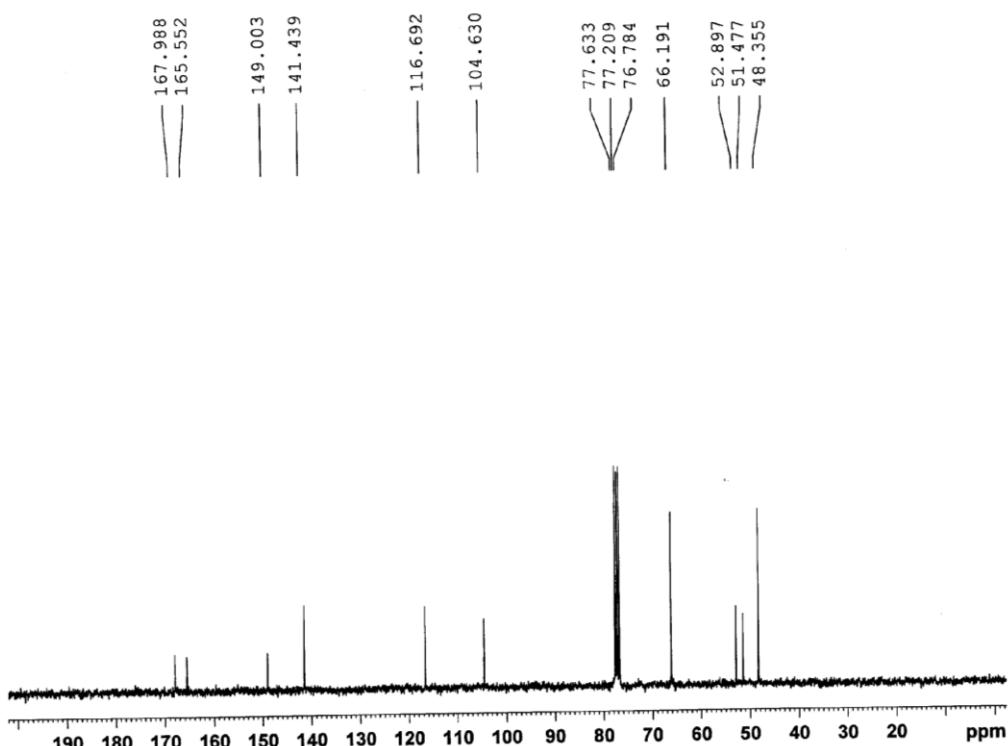
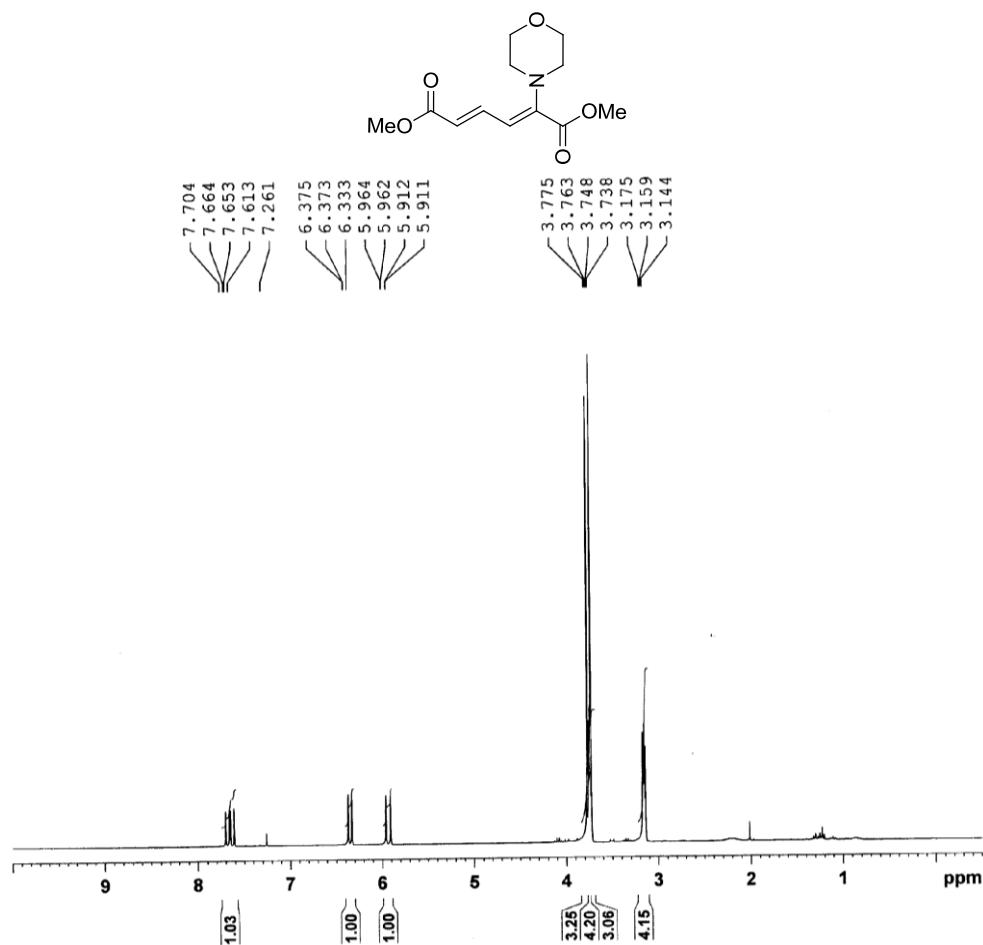
Figure S33. ^1H -NMR spectrum of compound **(2E,4E)-4n** (300 MHz, CDCl_3).**Figure S34.** ^{13}C -NMR spectrum of compound **(2E,4E)-4n** (75 MHz, CDCl_3).

Figure S35. ^1H -NMR spectrum of compound (2Z,4E)-4n (300 MHz, CDCl_3).**Figure S36.** ^{13}C -NMR spectrum of compound (2Z,4E)-4n (75 MHz, CDCl_3).