Supplementary Information

Figure S1. HR-ESI-MS spectrum of **1**.

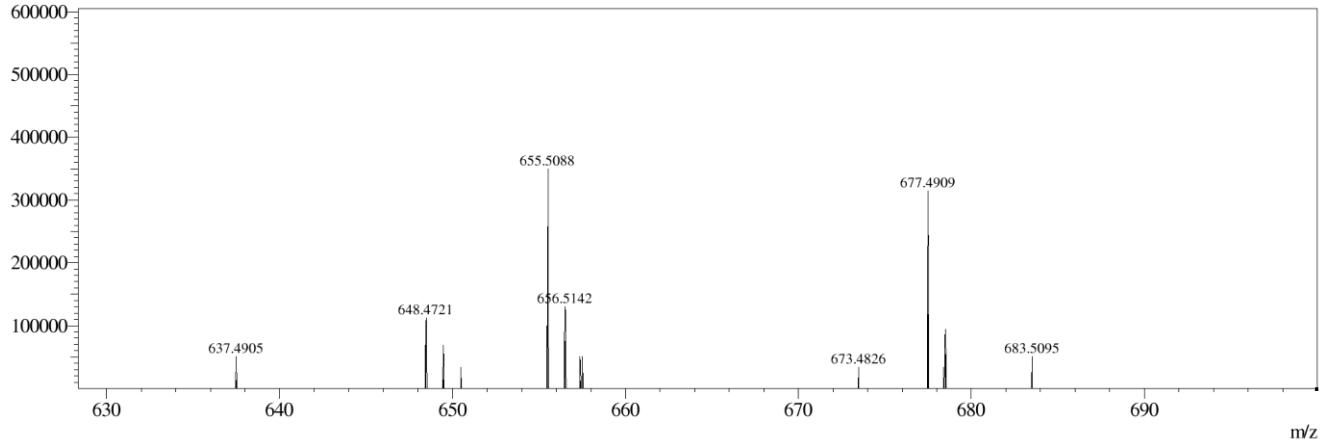

Figure S2. HR-ESI-MS-MS spectrum of **1**.

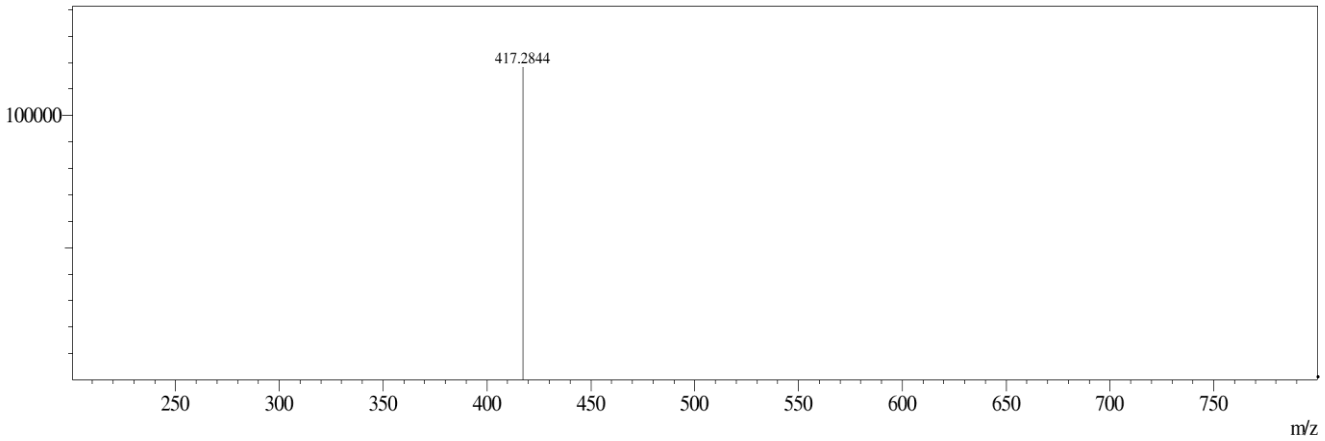

Figure S3. HPLC chromatogram of **1**.

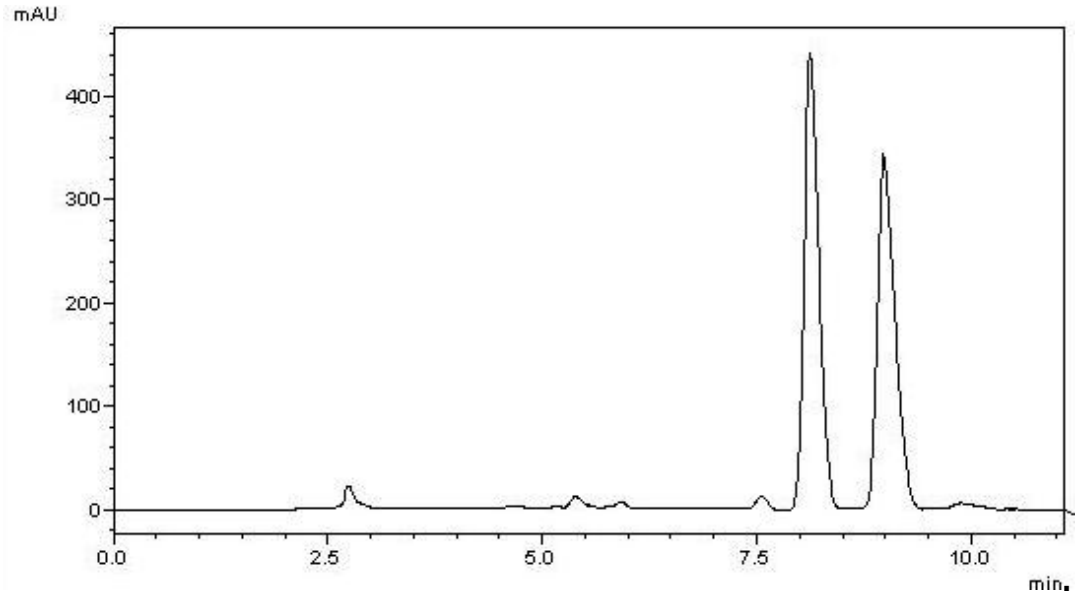

Figure S4. Infrared spectrum of **1**.

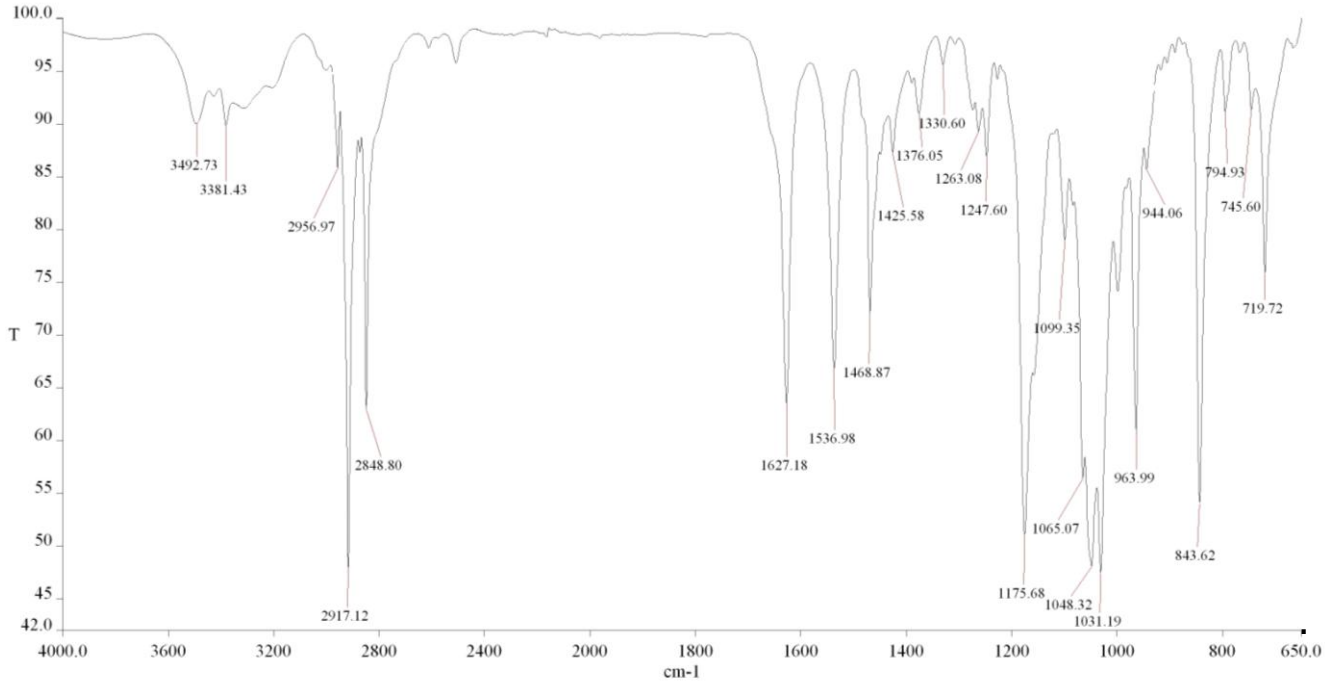

Figure S5. ^{1}H-NMR spectrum (500 MHz, 4:1 $CDCl_3/CD_3OD$) of **1**. (bottom) Expansion of the olefin region depicting assignments of protons H4, H5, H8 and H9.

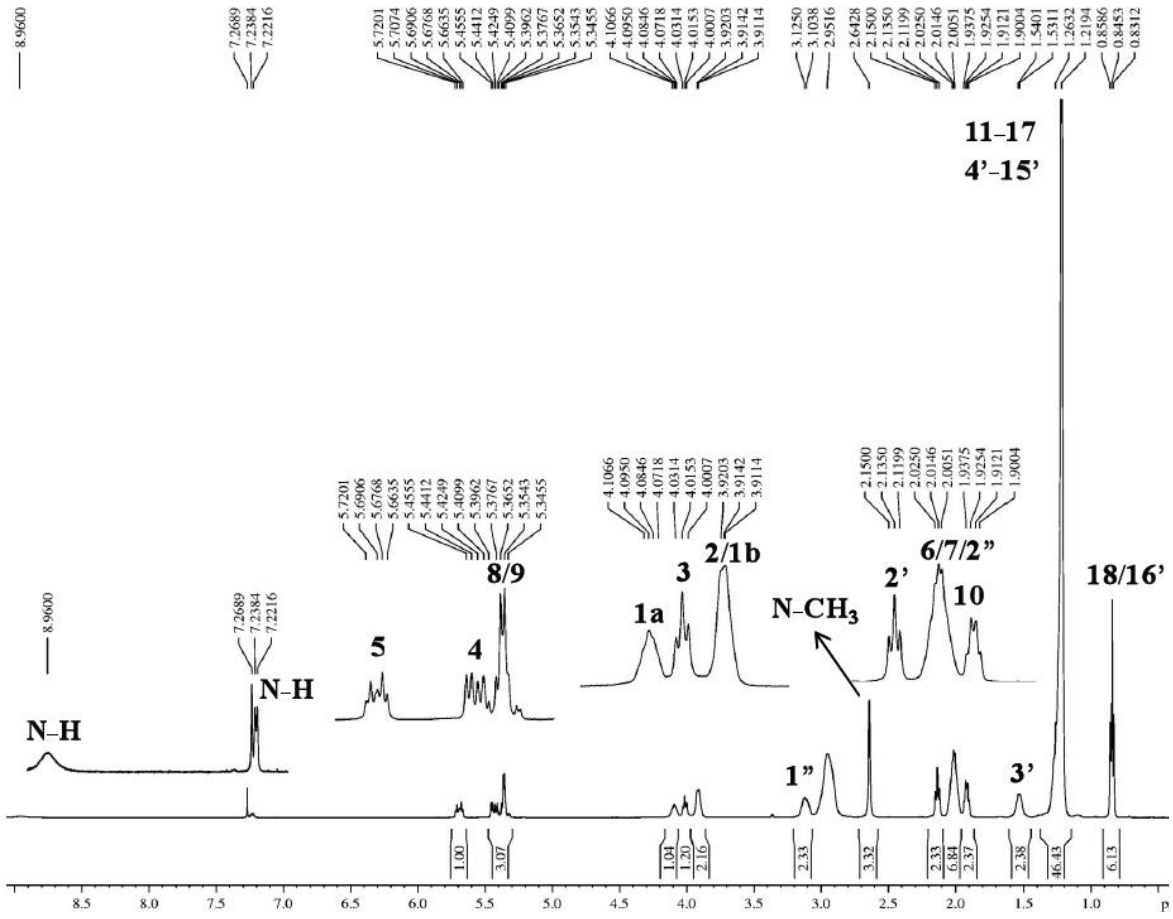

Figure S5. *Cont.*

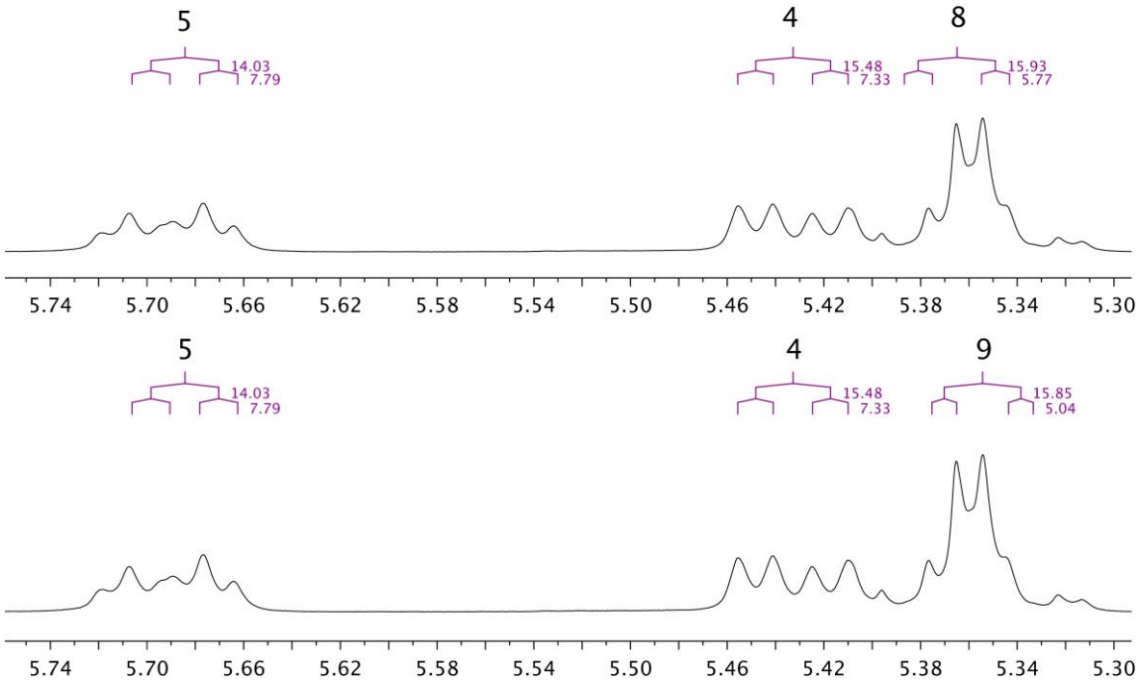

Figure S6. ^{13}C-NMR spectrum (125 MHz, 4:1 $CDCl_3/CD_3OD$) of **1**.

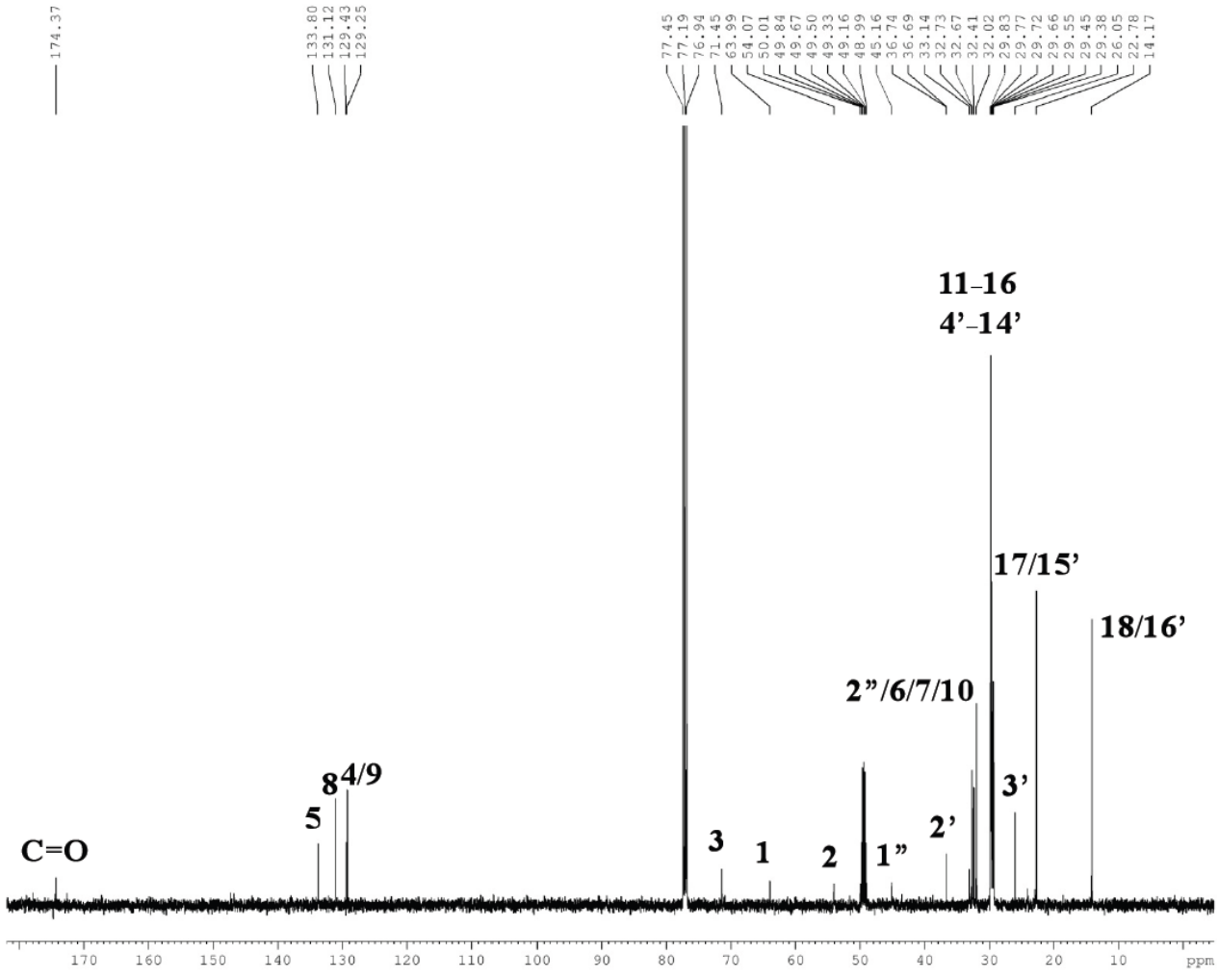

Figure S7. ^{1}H–^{1}H-COSY spectrum (500 × 500 MHz, 4:1 $CDCl_3/CD_3OD$) of **1**.

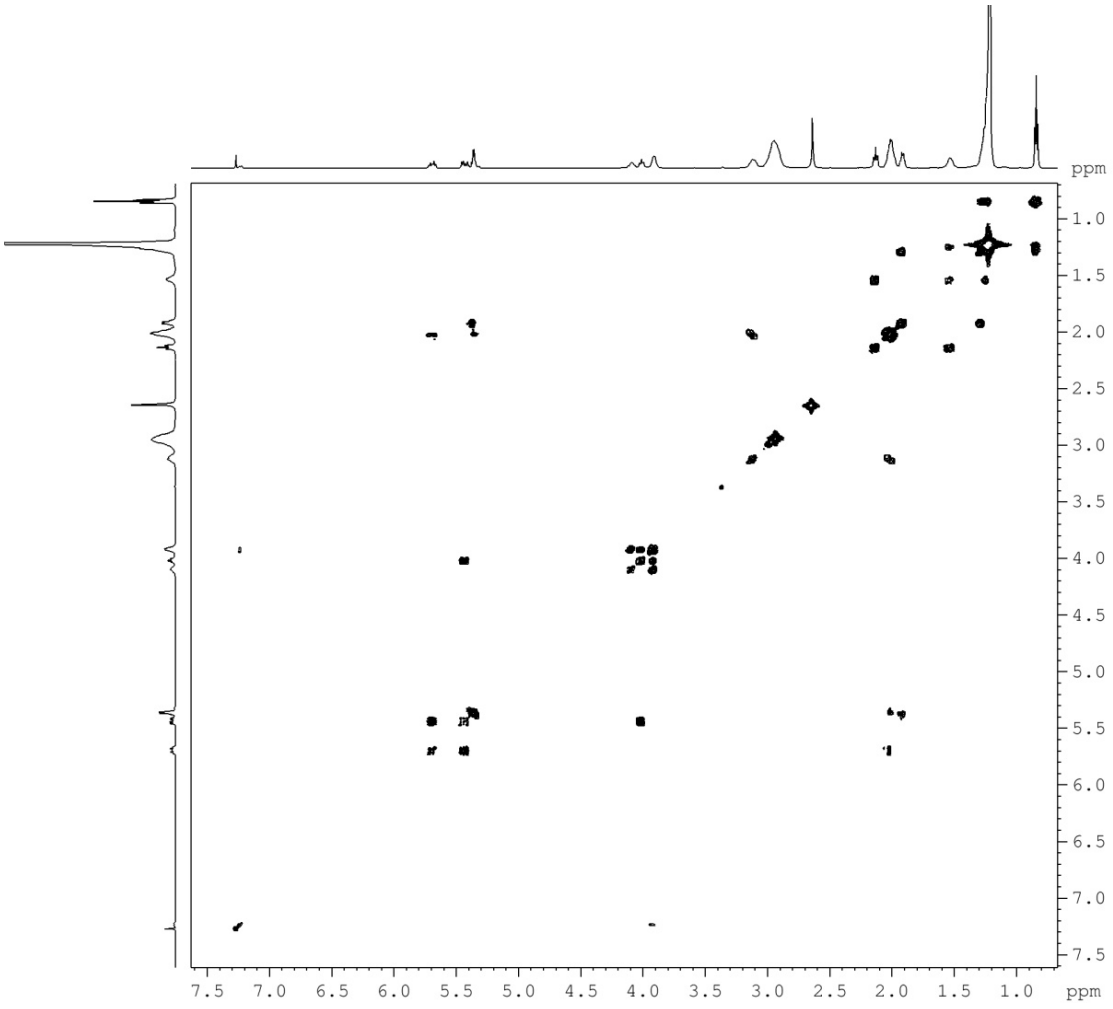

Figure S8. ^{1}H–^{13}C-HSQC spectrum (500 × 125 MHz, 4:1 $CDCl_3/CD_3OD$) of **1**.

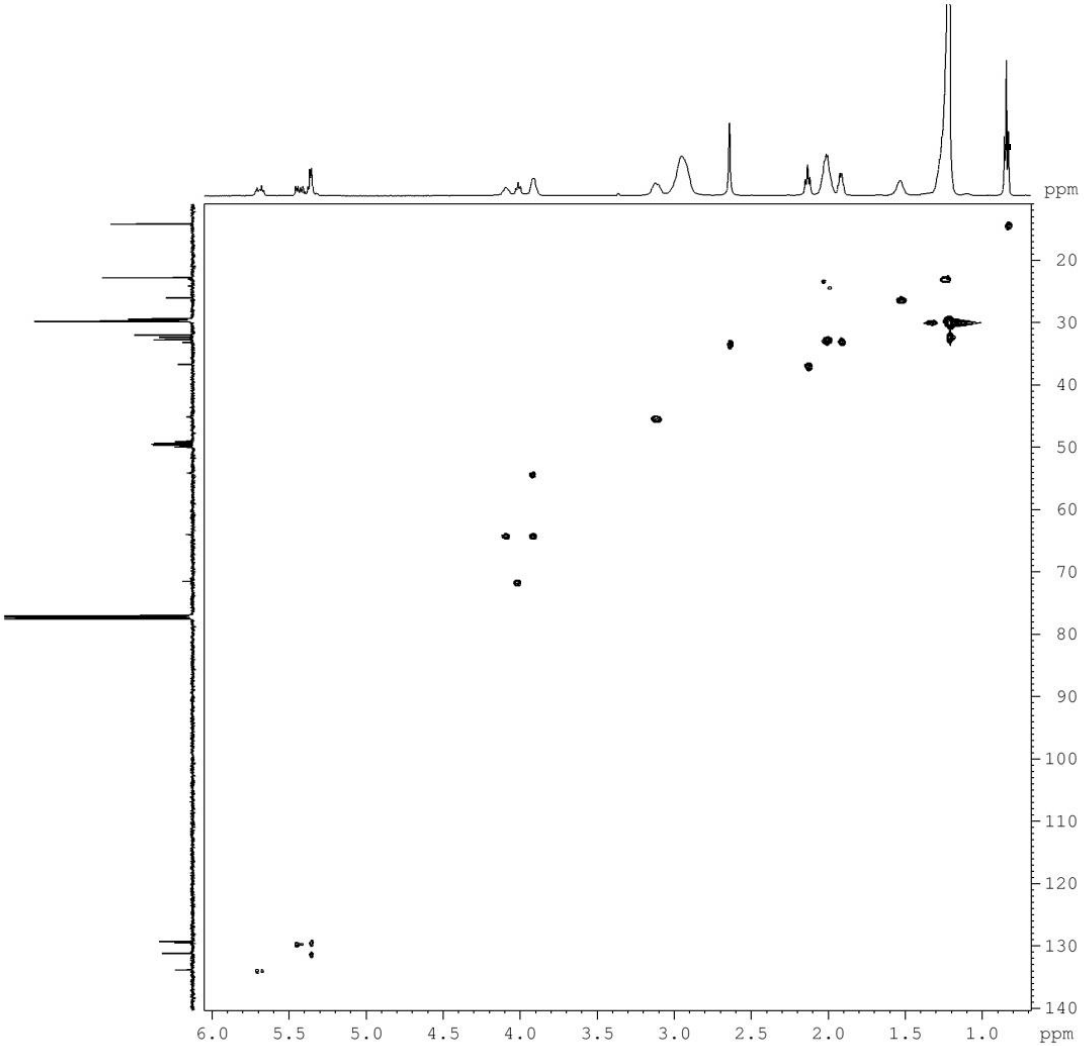

Figure S9. ^{1}H–^{13}C-HMBC spectrum (500 × 125 MHz, 4:1 $CDCl_3/CD_3OD$) of **1**.

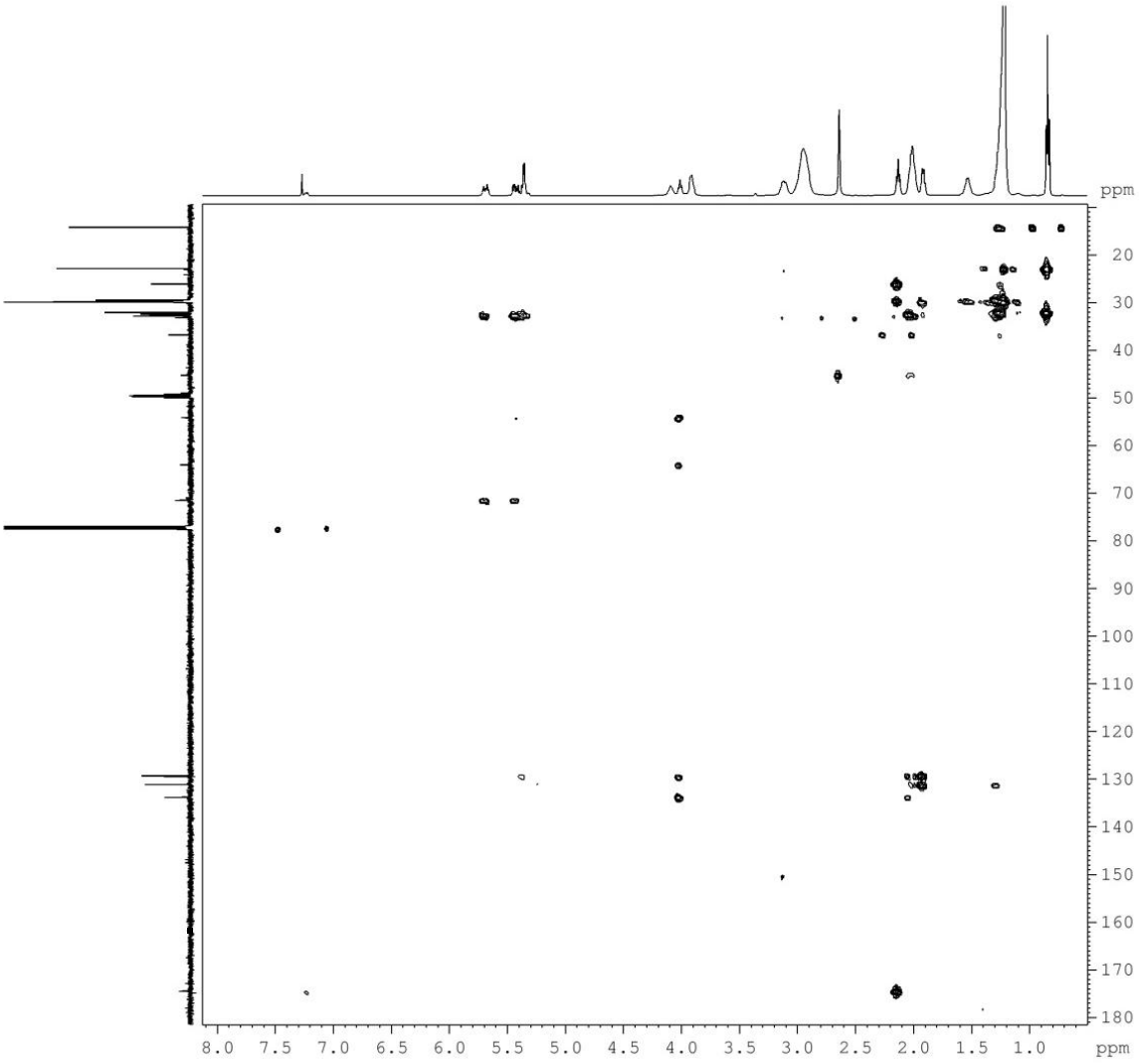

Figure S10. $^{1}H–^{15}N$-HMBC spectrum (500 × 50 MHz, 4:1 $CDCl_3/CD_3OD$) of **1**.

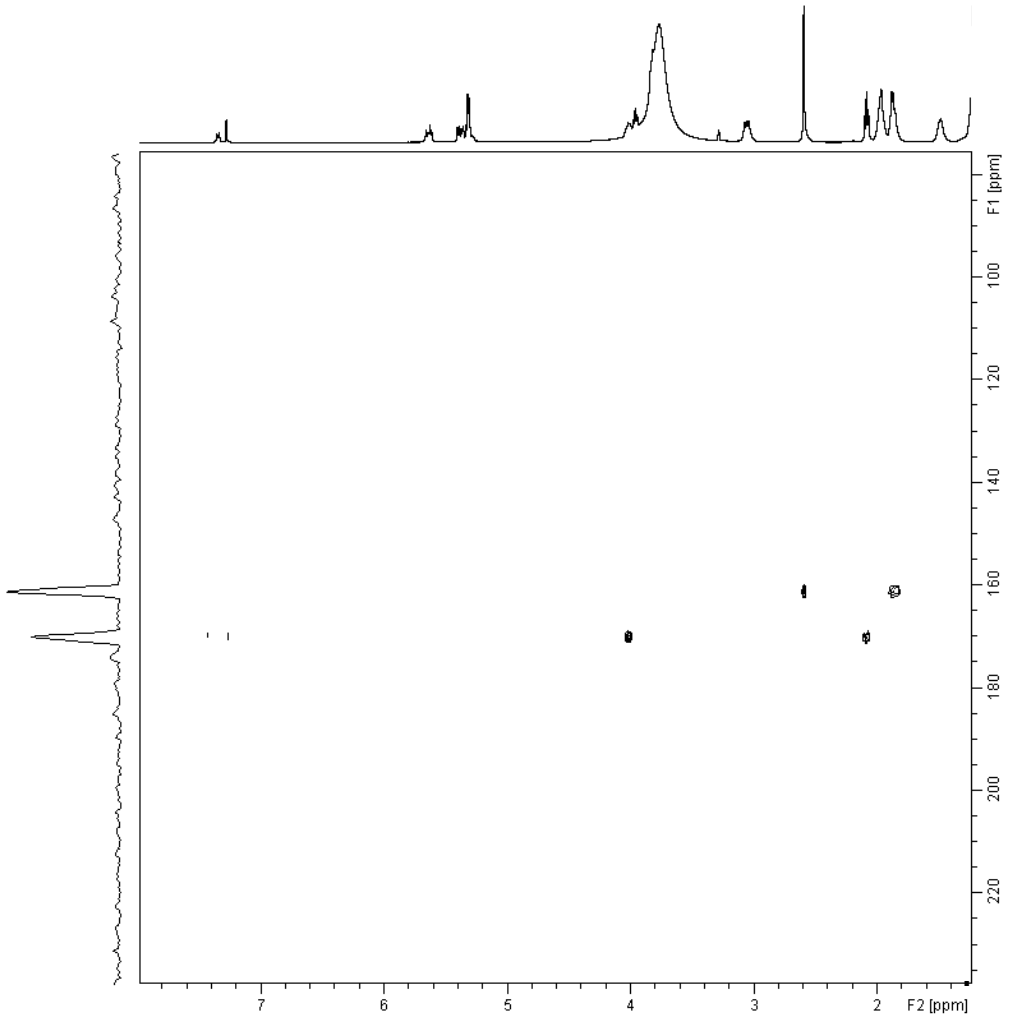

Figure S11. HR-ESI-MS spectrum of **2**.

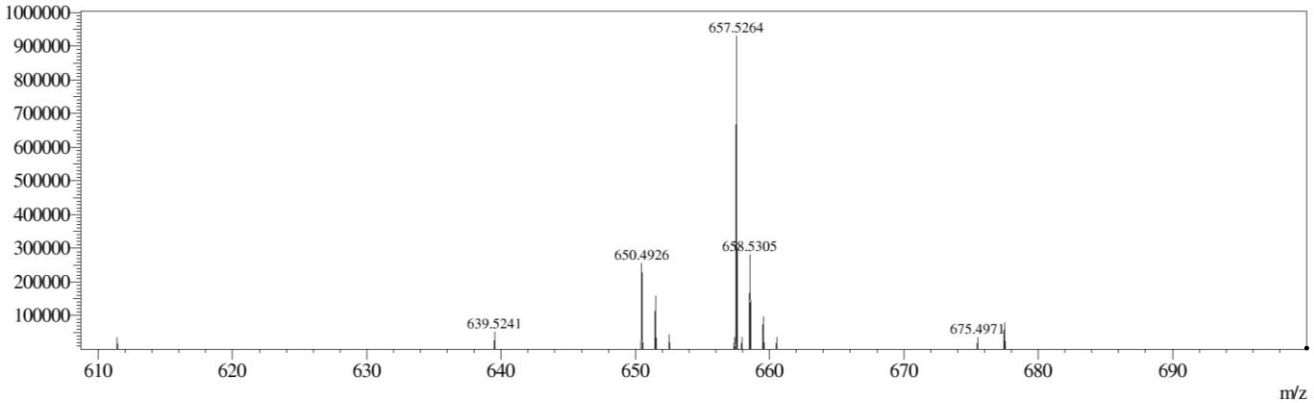

Figure S12. HR-ESI-MS-MS spectrum of **2**.

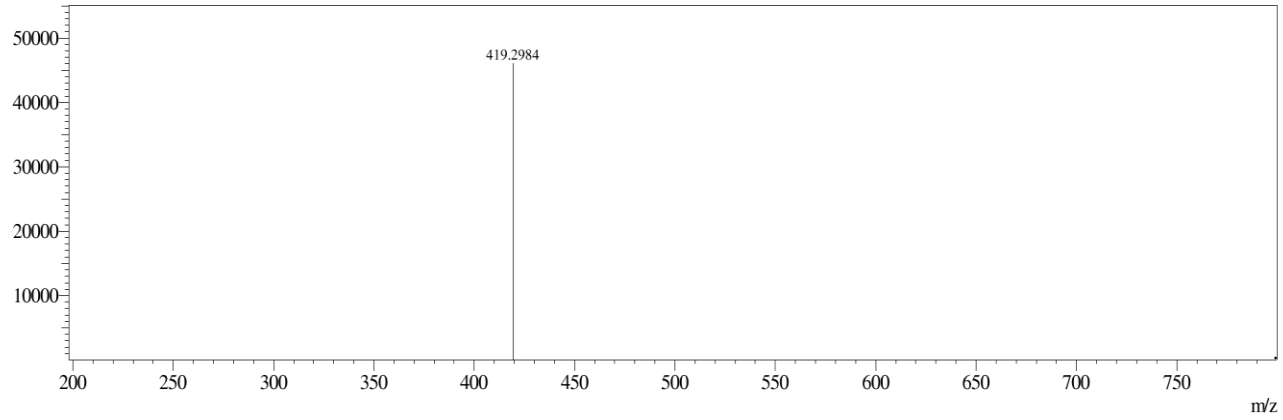

Figure S13. ^{1}H-NMR spectrum (500 MHz, 4:1 $CDCl_3/CD_3OD$) of **2**.

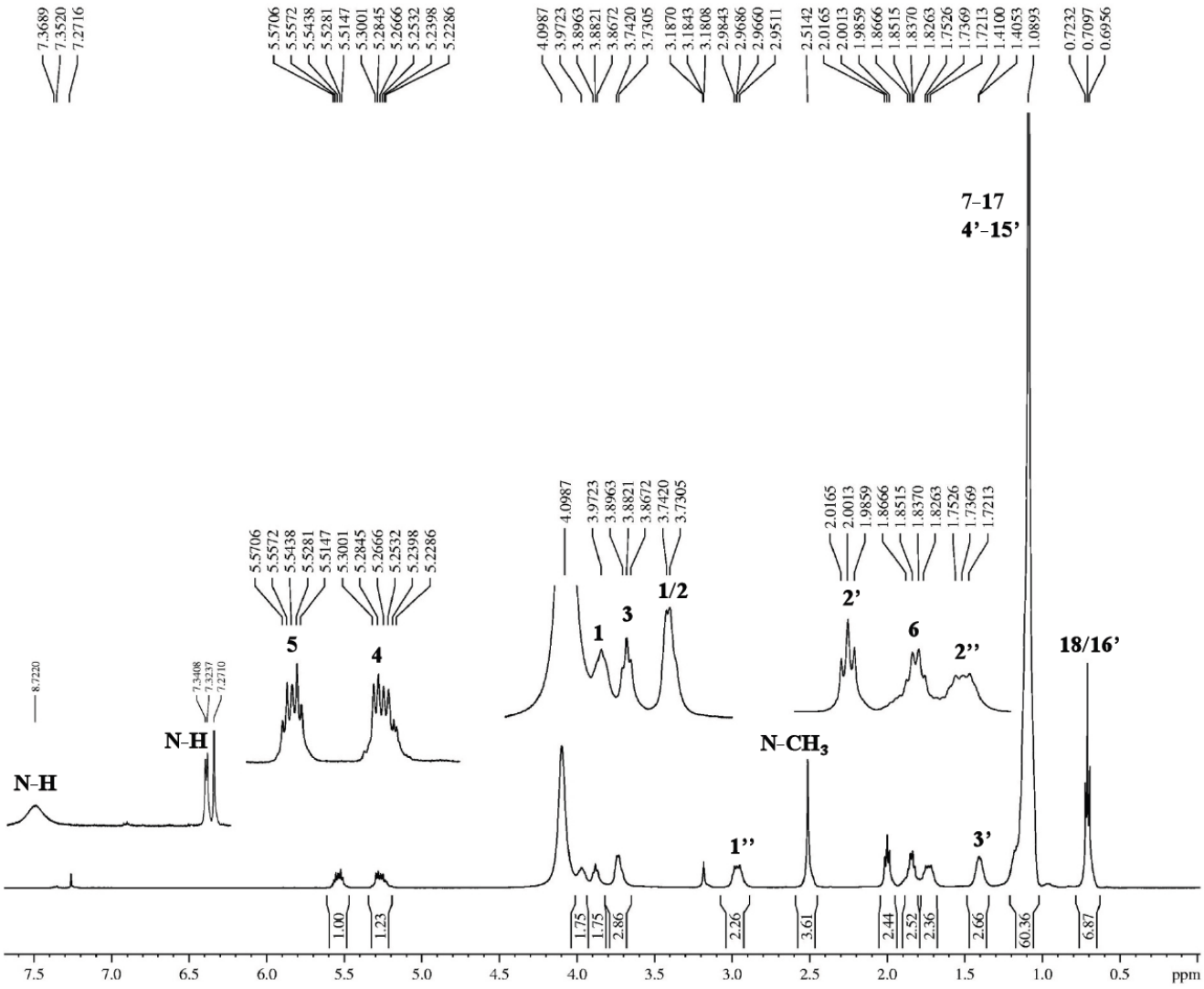

Figure S14. ^{13}C–NMR spectrum (125 MHz, 4:1 $CDCl_3/CD_3OD$) of **2**.

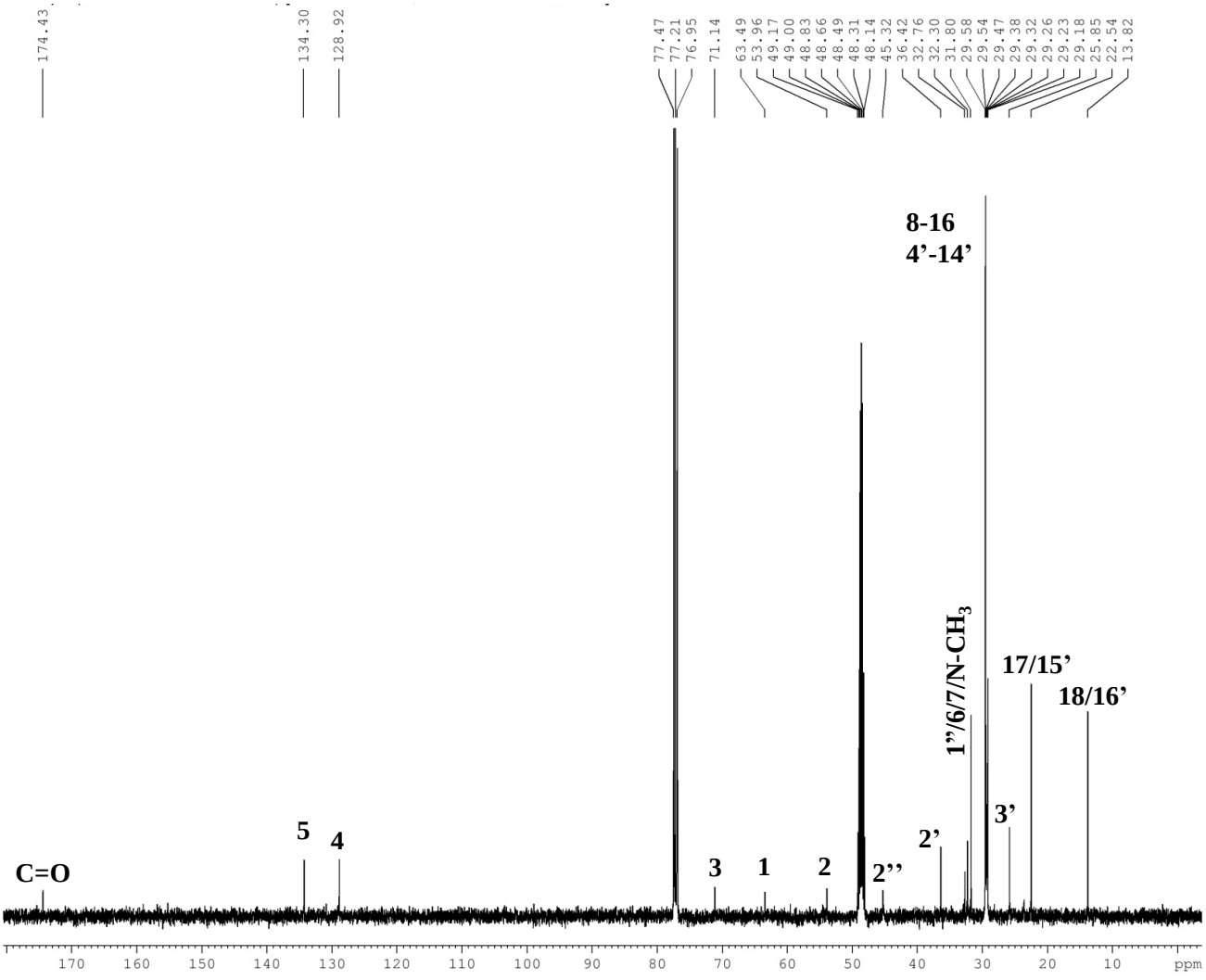

Figure S15. ^{1}H–^{13}C-HSQC spectrum (500 × 125 MHz, 4:1 $CDCl_3/CD_3OD$) of **2**.

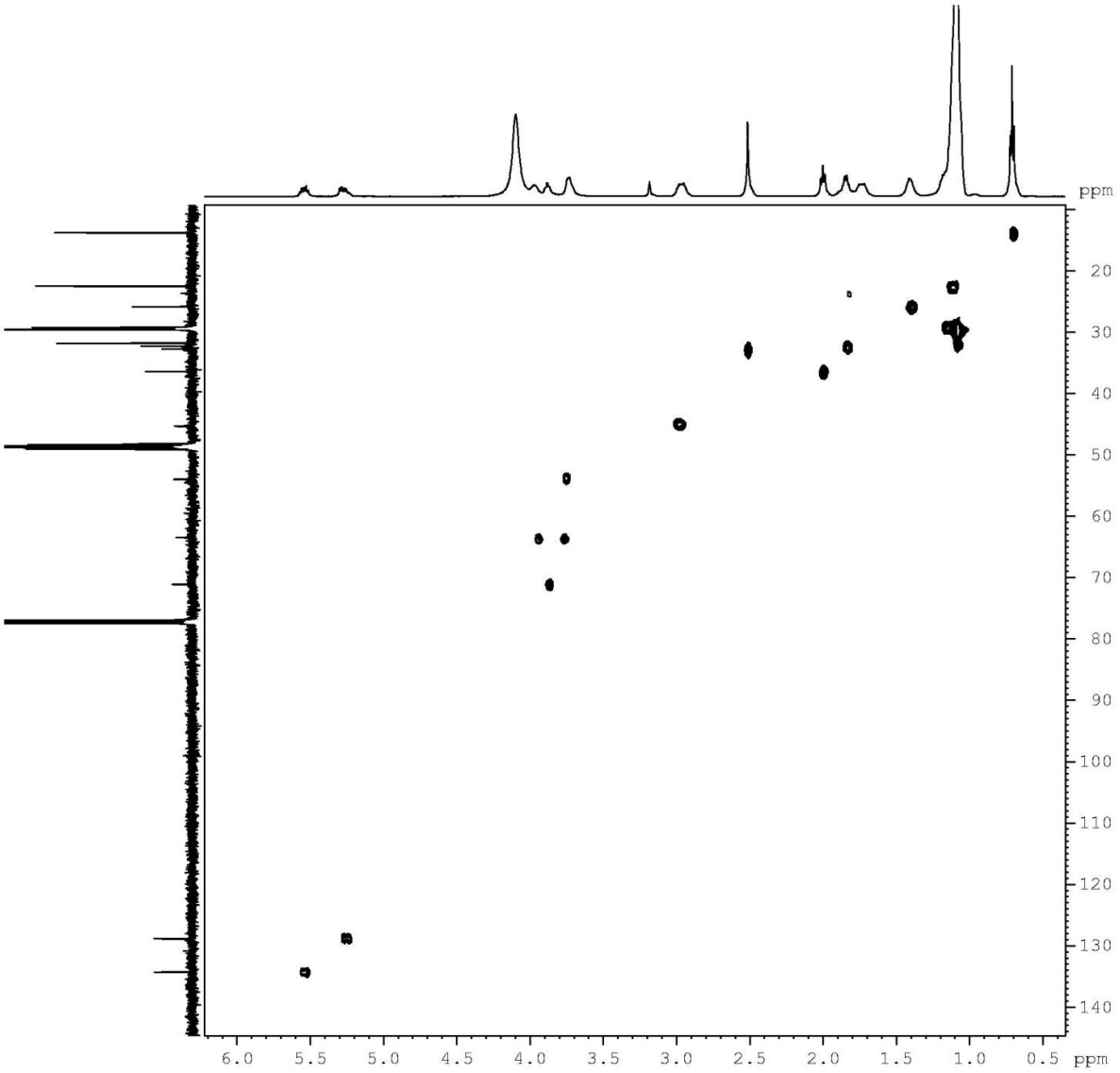

Figure S16. ^{1}H–^{13}C-HMBC spectrum (500 × 125 MHz, 4:1 $CDCl_3/CD_3OD$) of **2**.

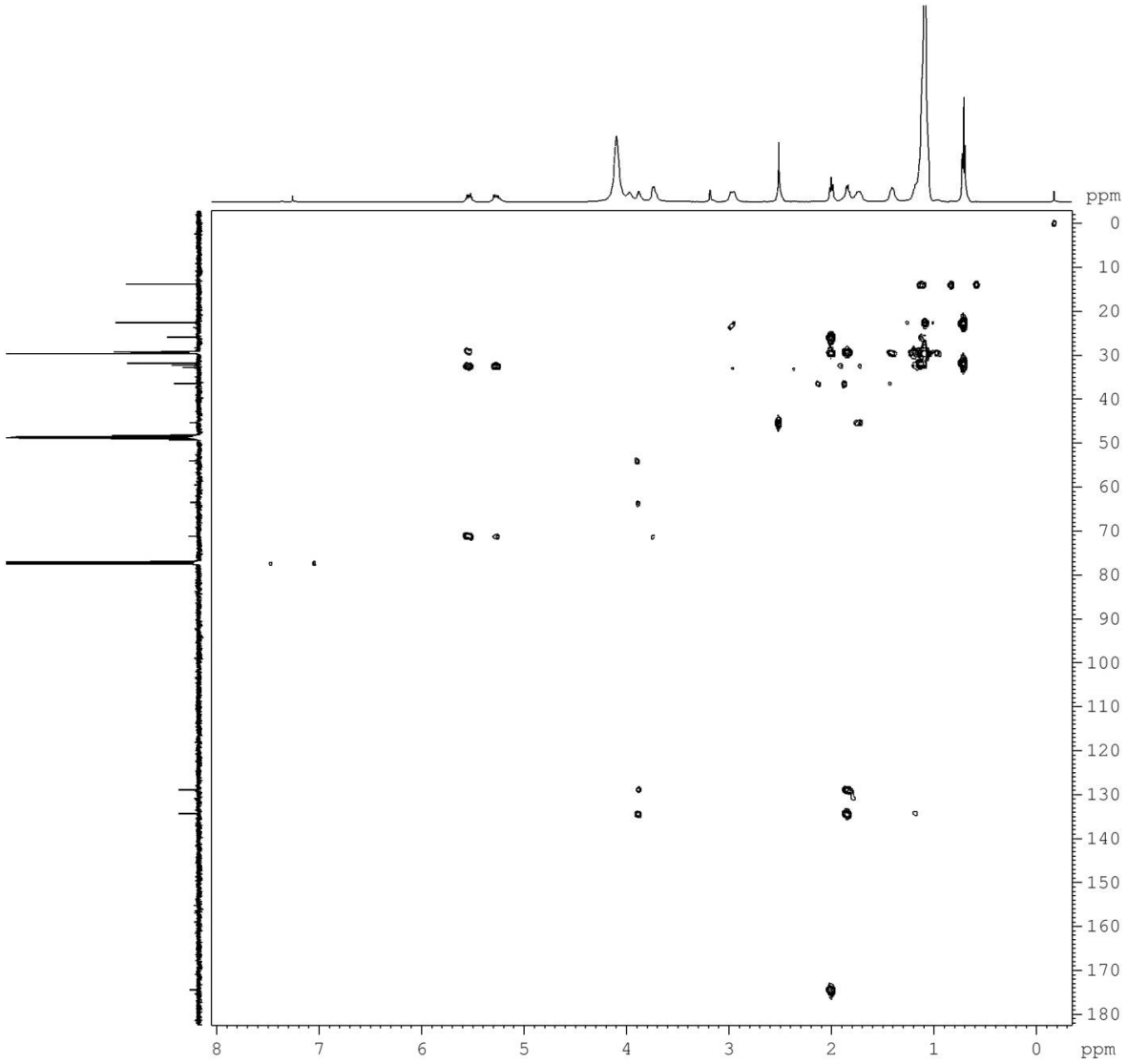

Figure S17. $^{1}H–^{15}N$-HMBC spectrum (500 × 50 MHz, 4:1 $CDCl_3/CD_3OD$) of **2**.

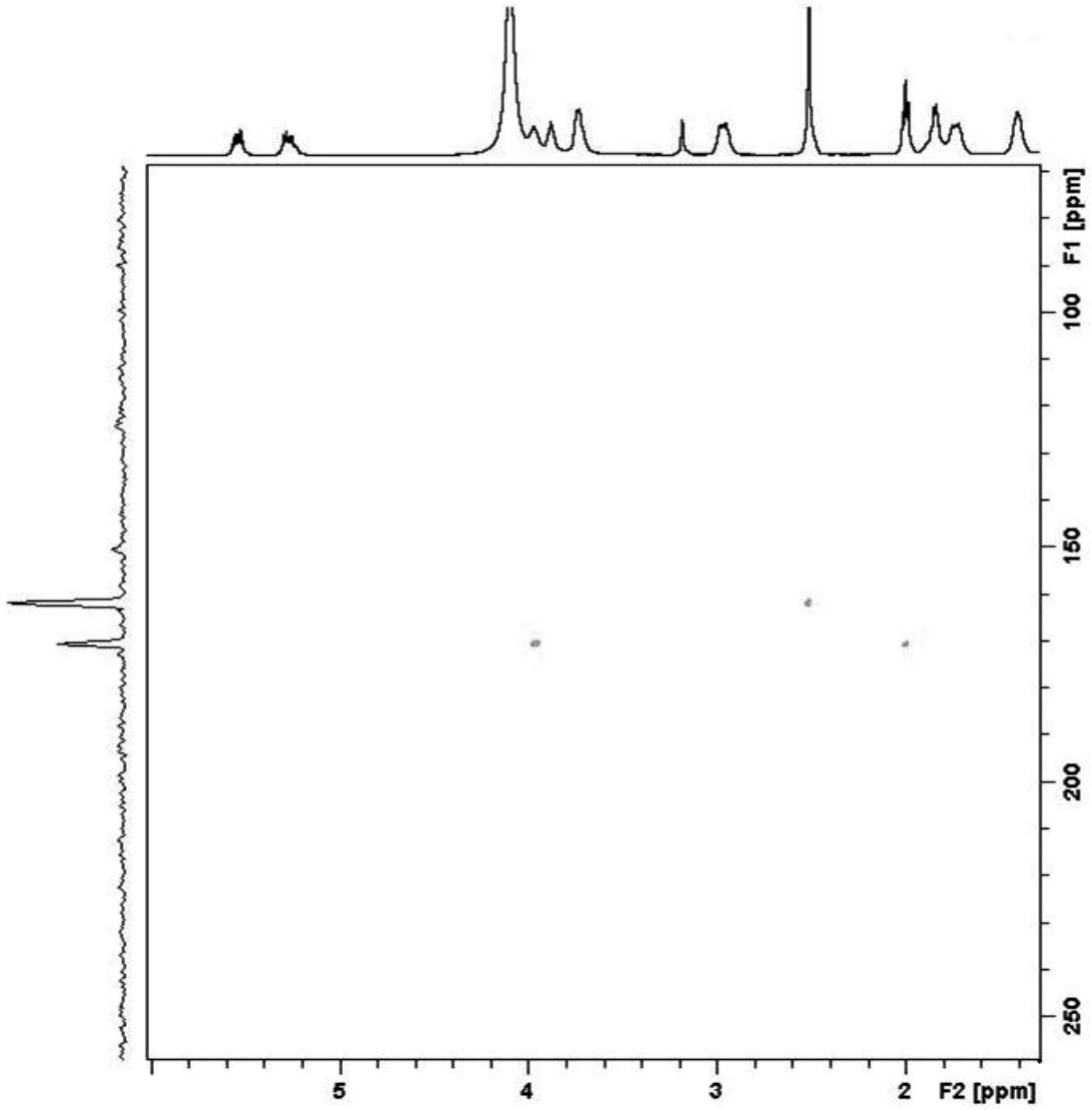

Figure S18. HR-ESI-MS spectrum of **3**.

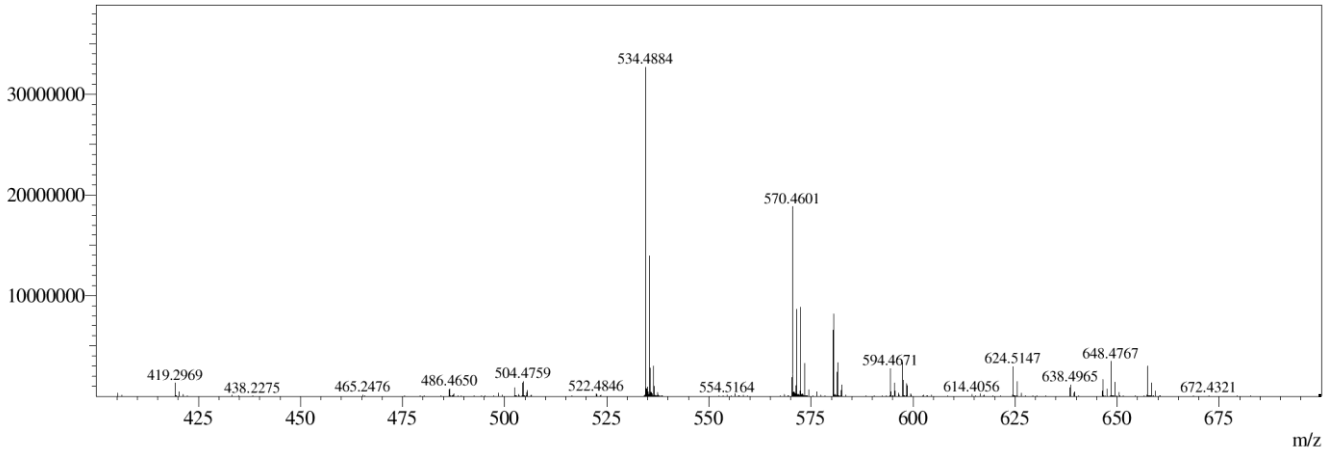

Figure S19. ^{1}H-NMR spectrum (500 MHz, pyridine-d_5) of **3**.

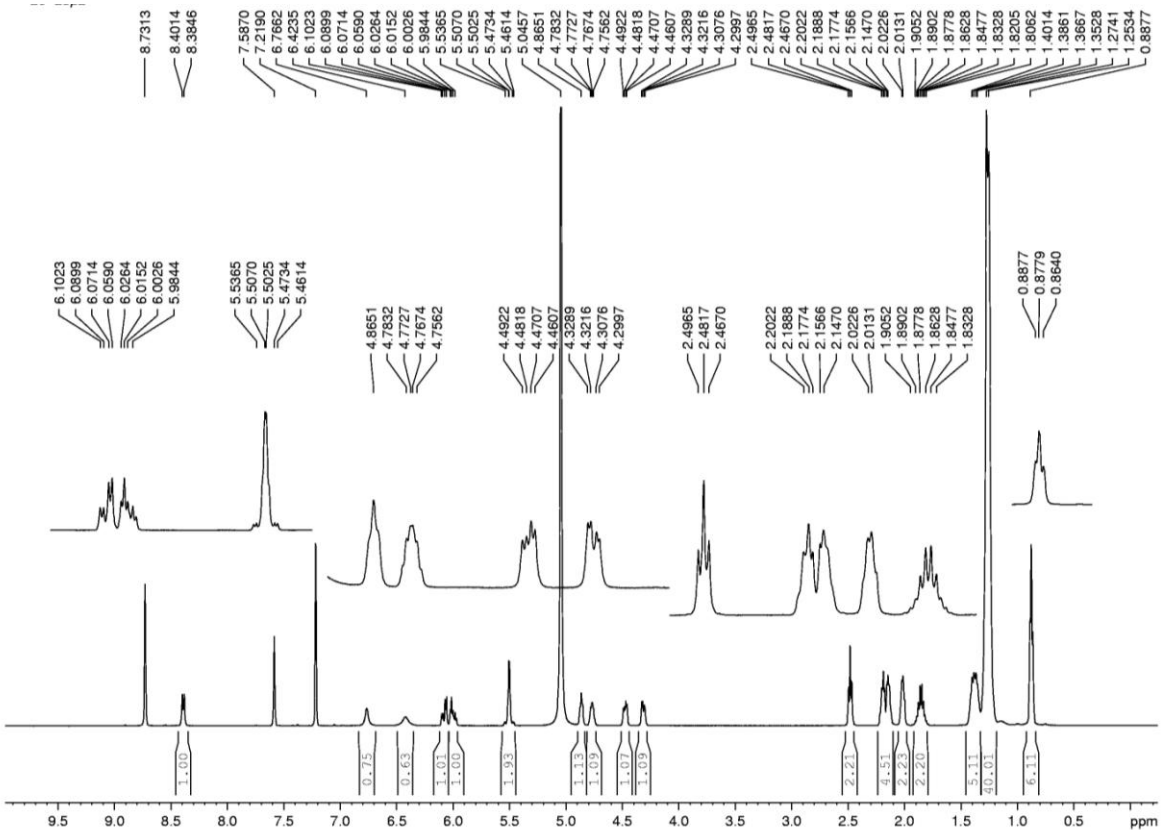

Figure S20. ^{13}C-NMR spectrum (125 MHz, pyridine-d_5) of **3**.

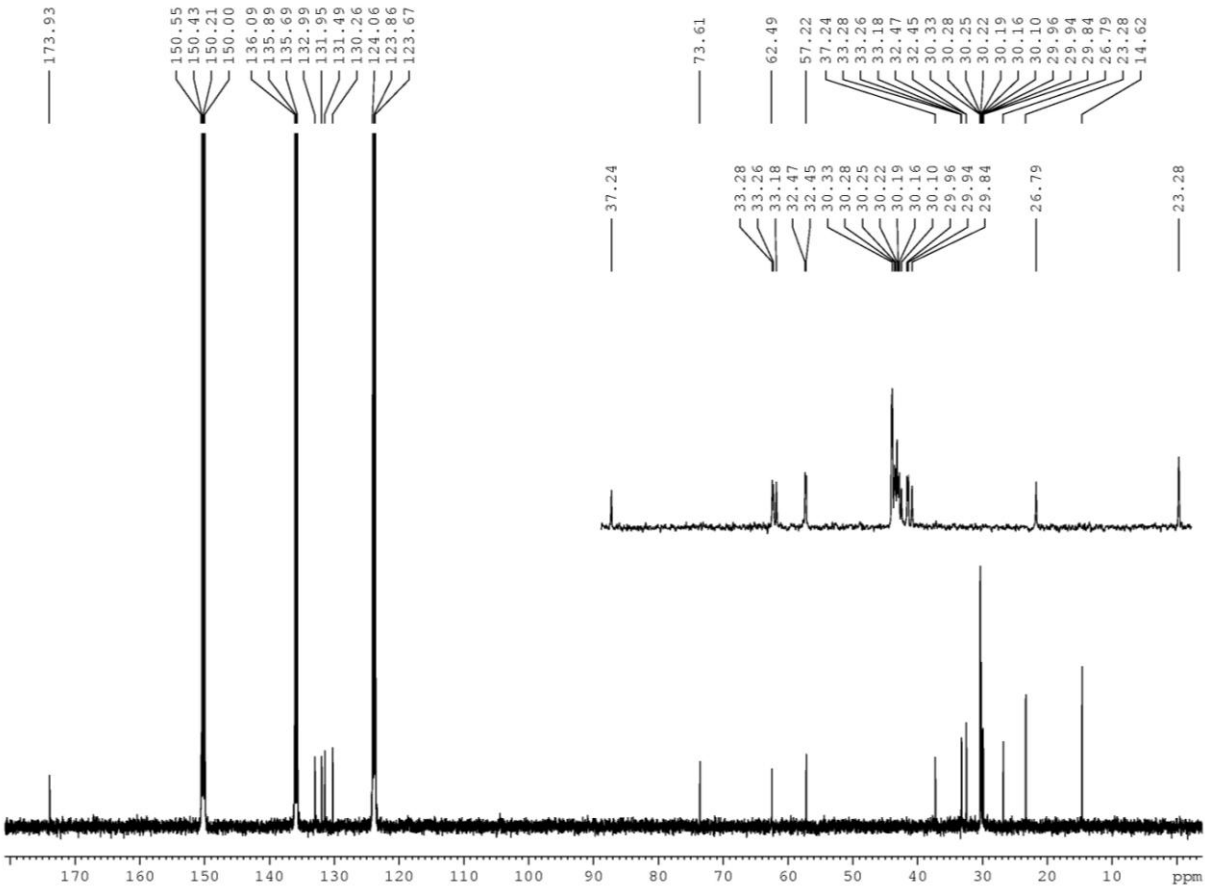

Figure S21. ^{1}H–^{1}H-COSY spectrum (500 × 500 MHz, pyridine-d_5) of **3**.

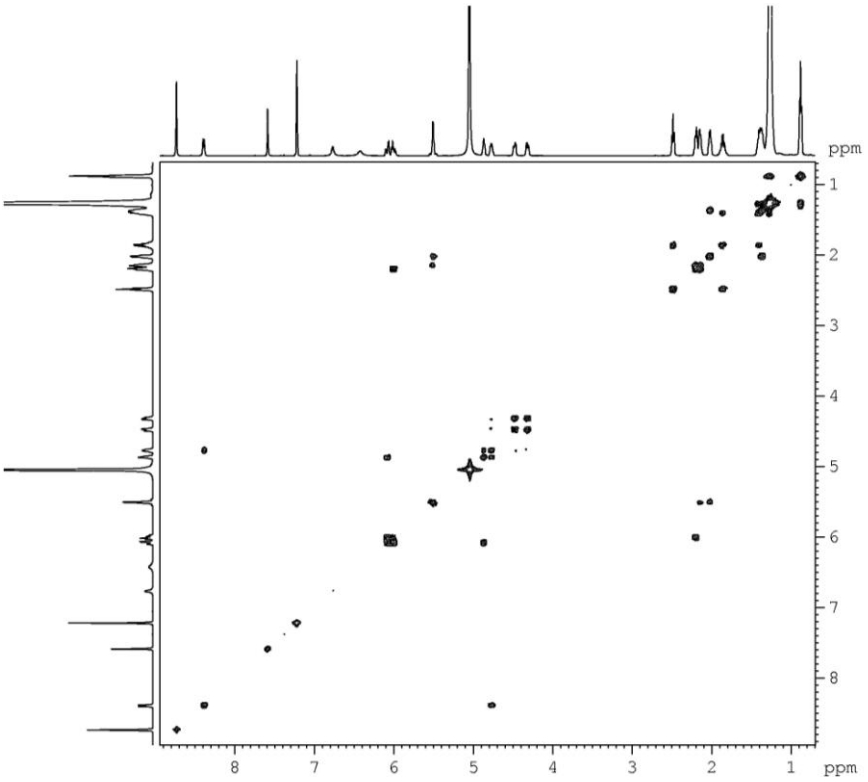

Figure S22. ^{1}H–^{13}C-HSQC spectrum (500 × 125 MHz, pyridine-d_5) of **3**.

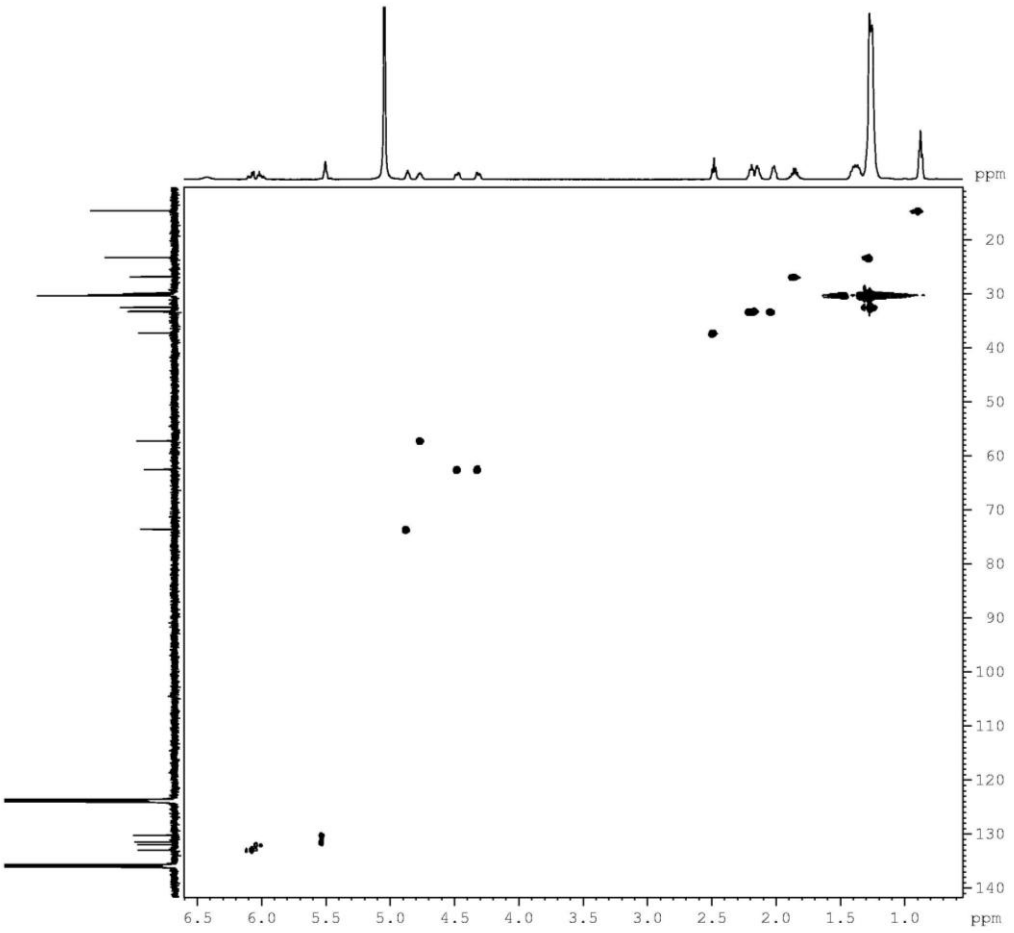

Figure S23. ^{1}H–^{13}C-HMBC spectrum (500 × 125 MHz, pyridine-d_5) of **3**.

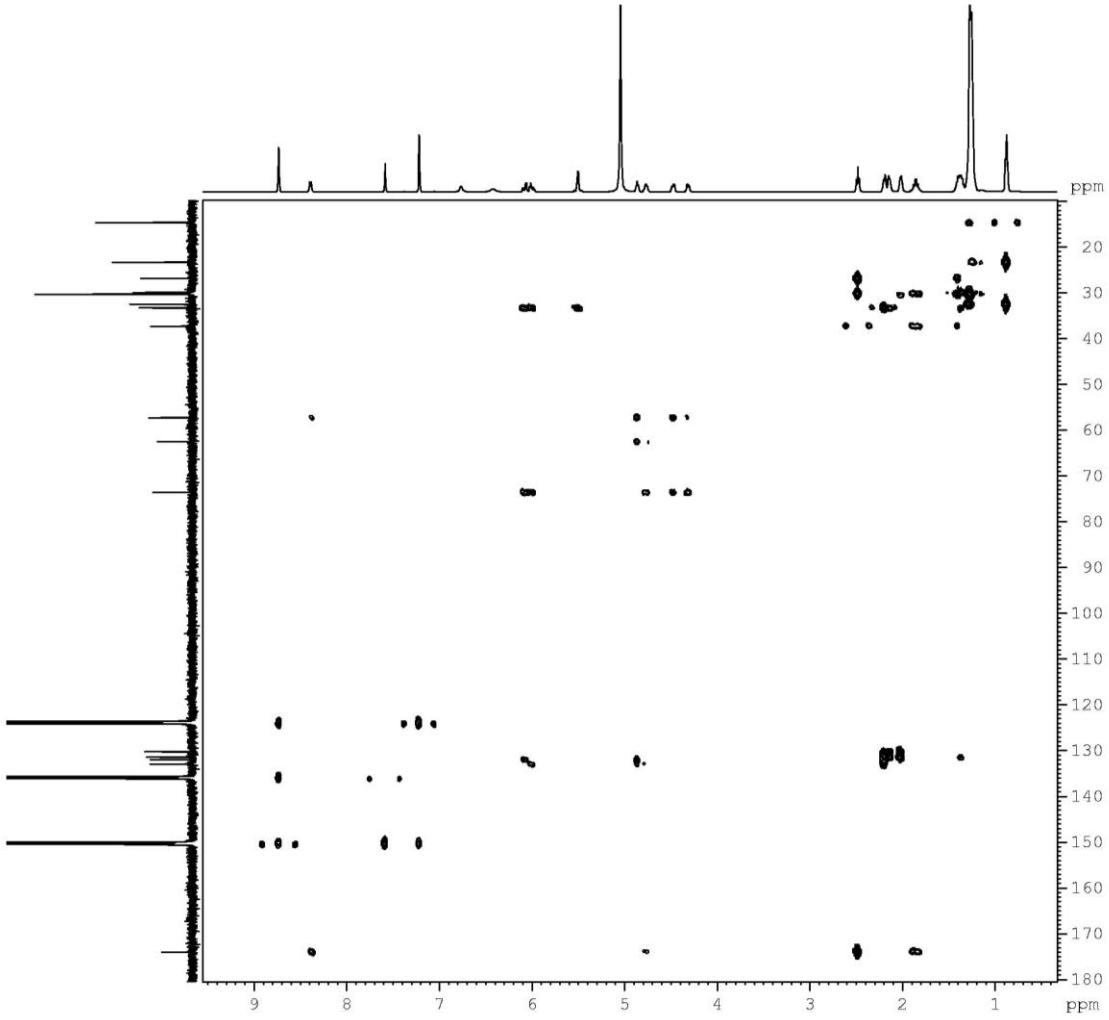

Figure S24. HR-ESI-MS spectrum of **4**.

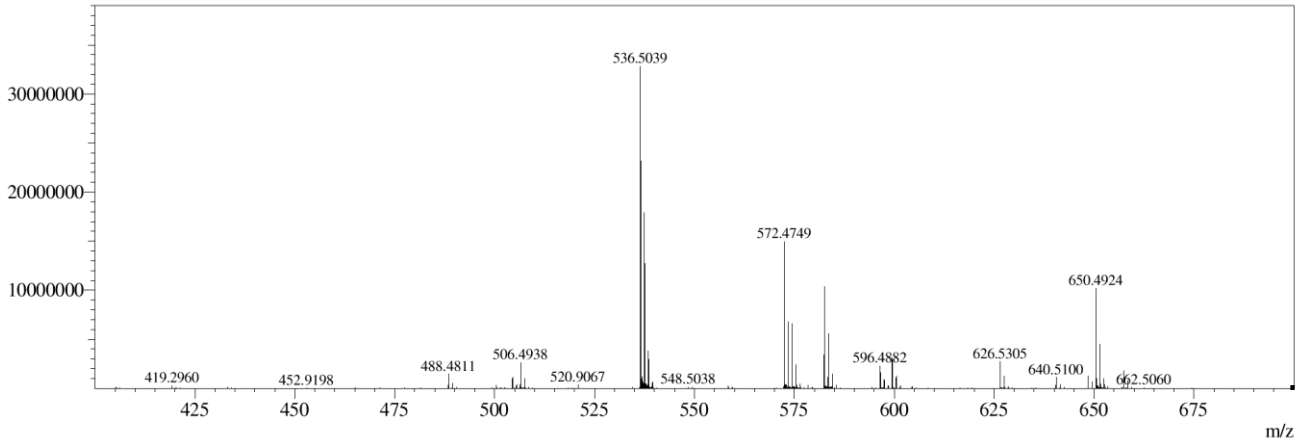

Figure S25. ^{1}H-NMR spectrum (500 MHz, pyridine-d_5) of **4**.

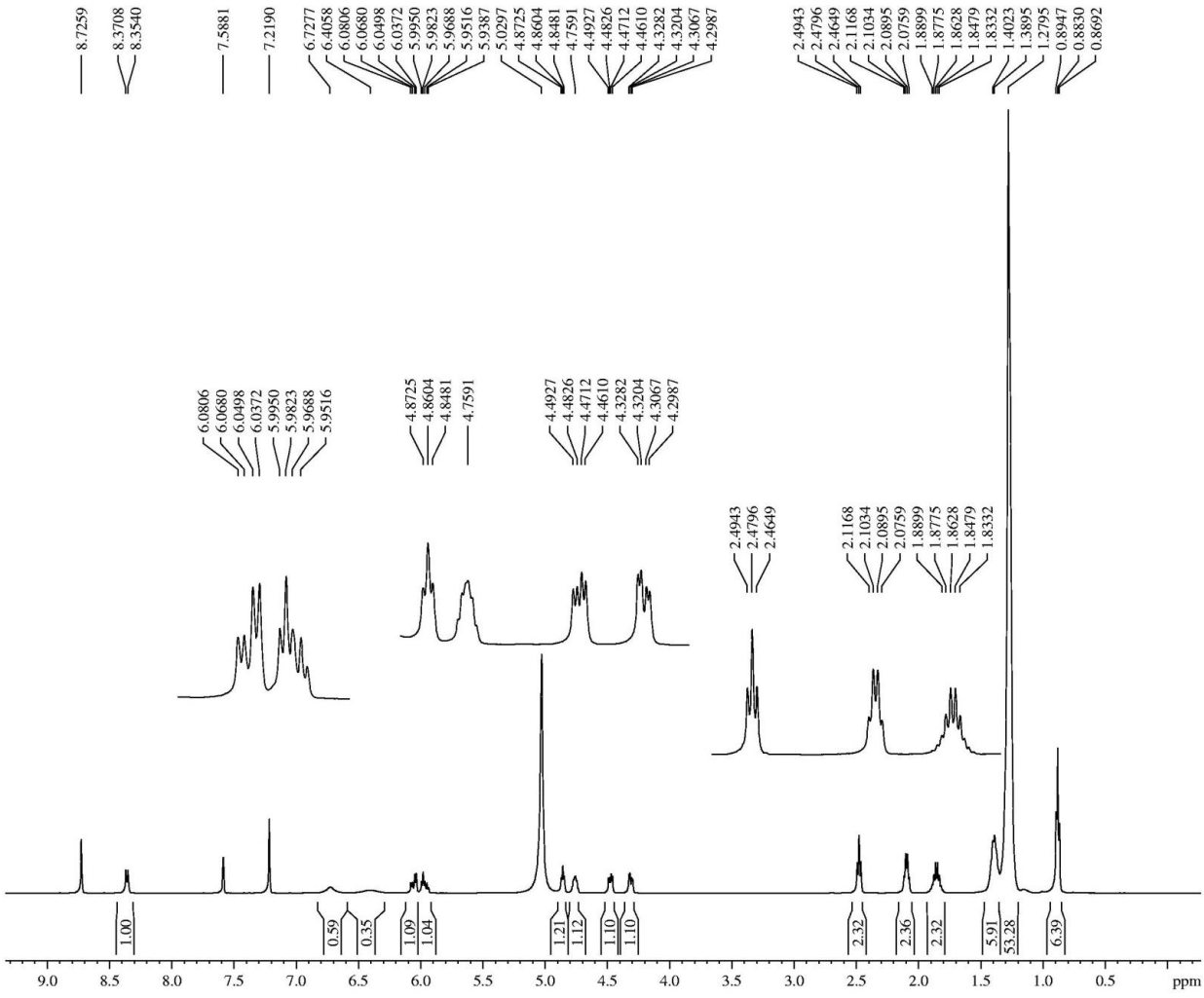

Figure S26. ^{13}C-NMR spectrum (125 MHz, pyridine-d_5) of **4**.

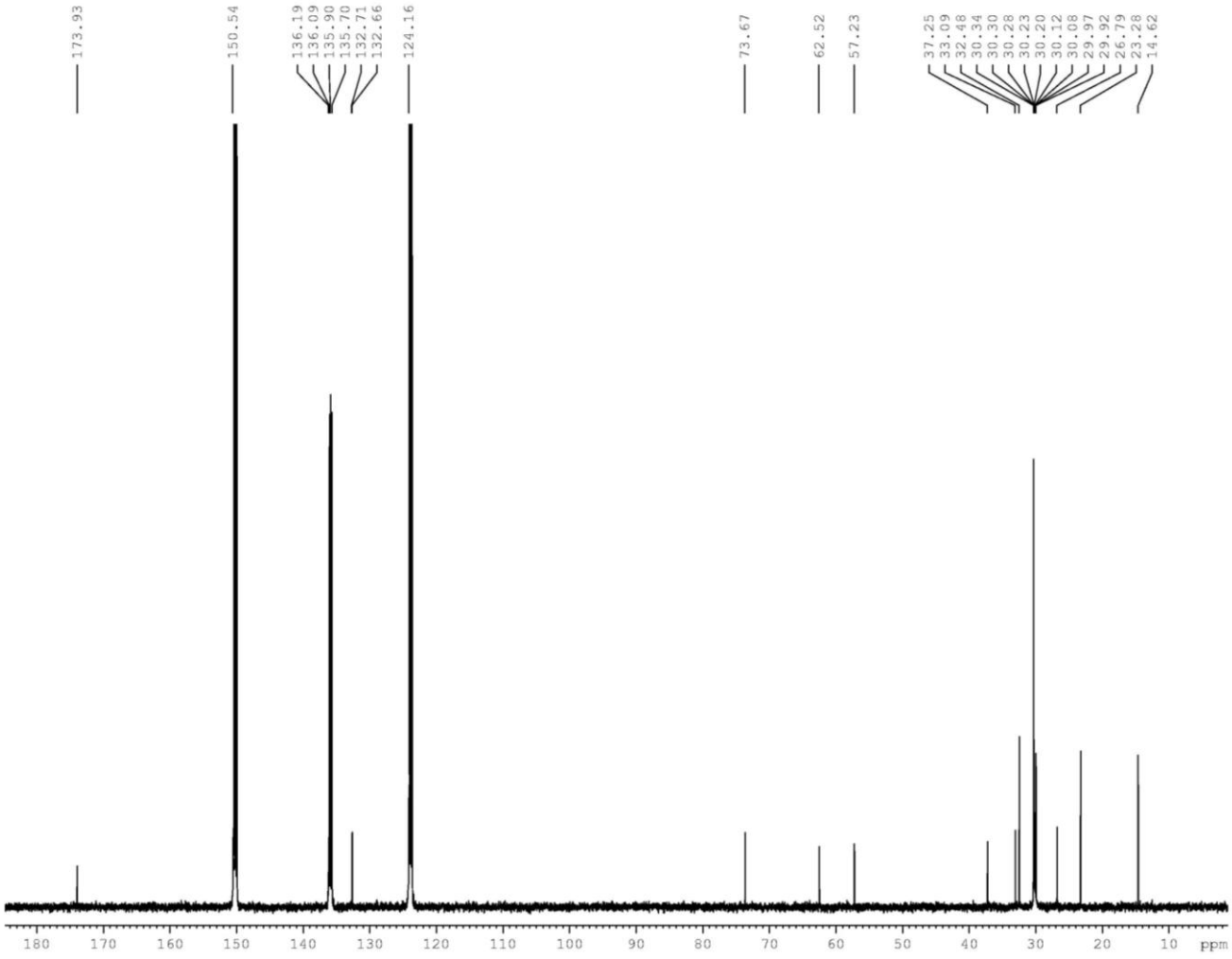

Figure S27. ^{1}H–^{1}H-COSY spectrum (500 × 500 MHz, pyridine-d_5) of **4**.

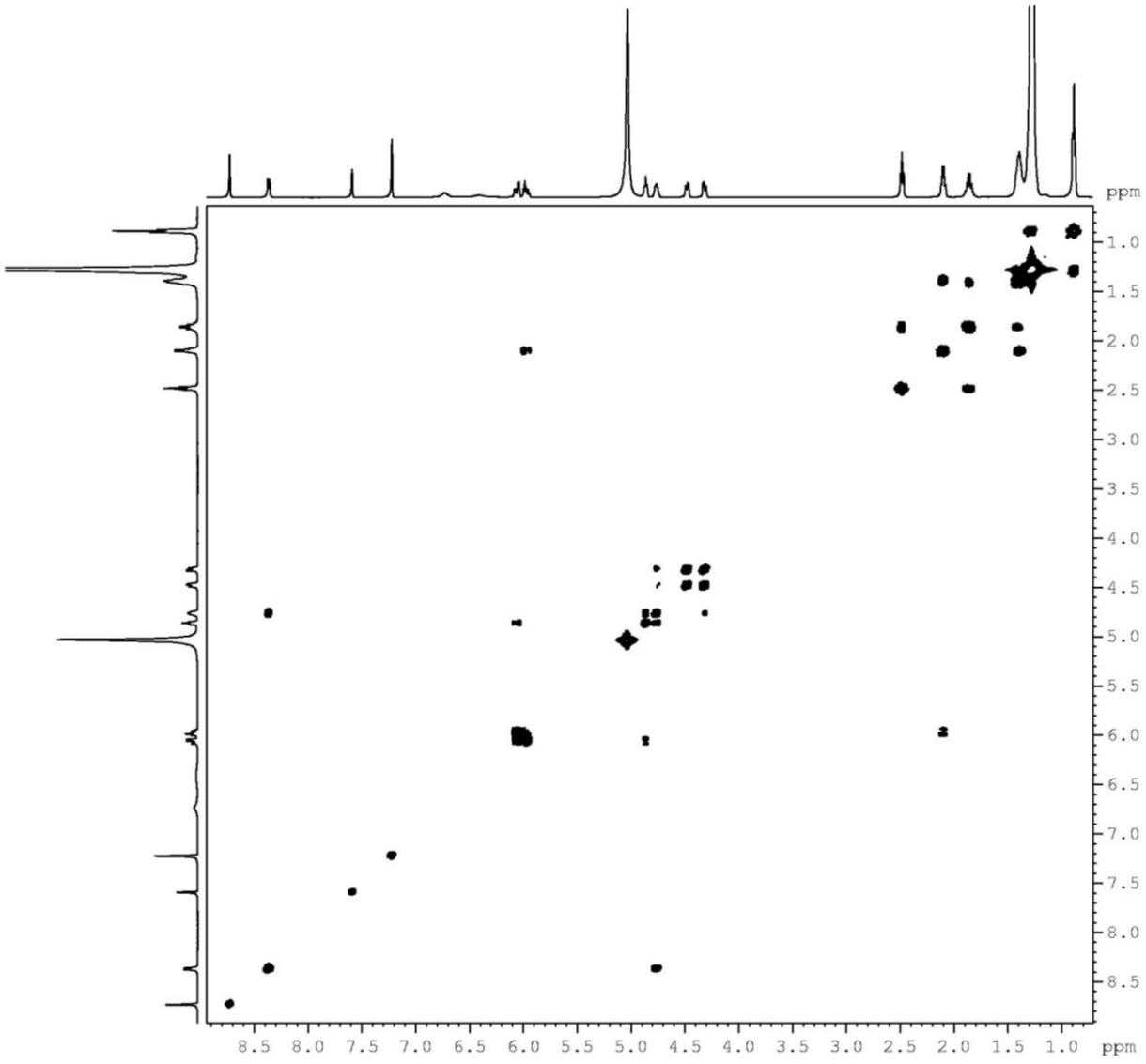

Figure S28. ^{1}H–^{13}C-HSQC spectrum (500 × 125 MHz, pyridine-d_5) of **4**.

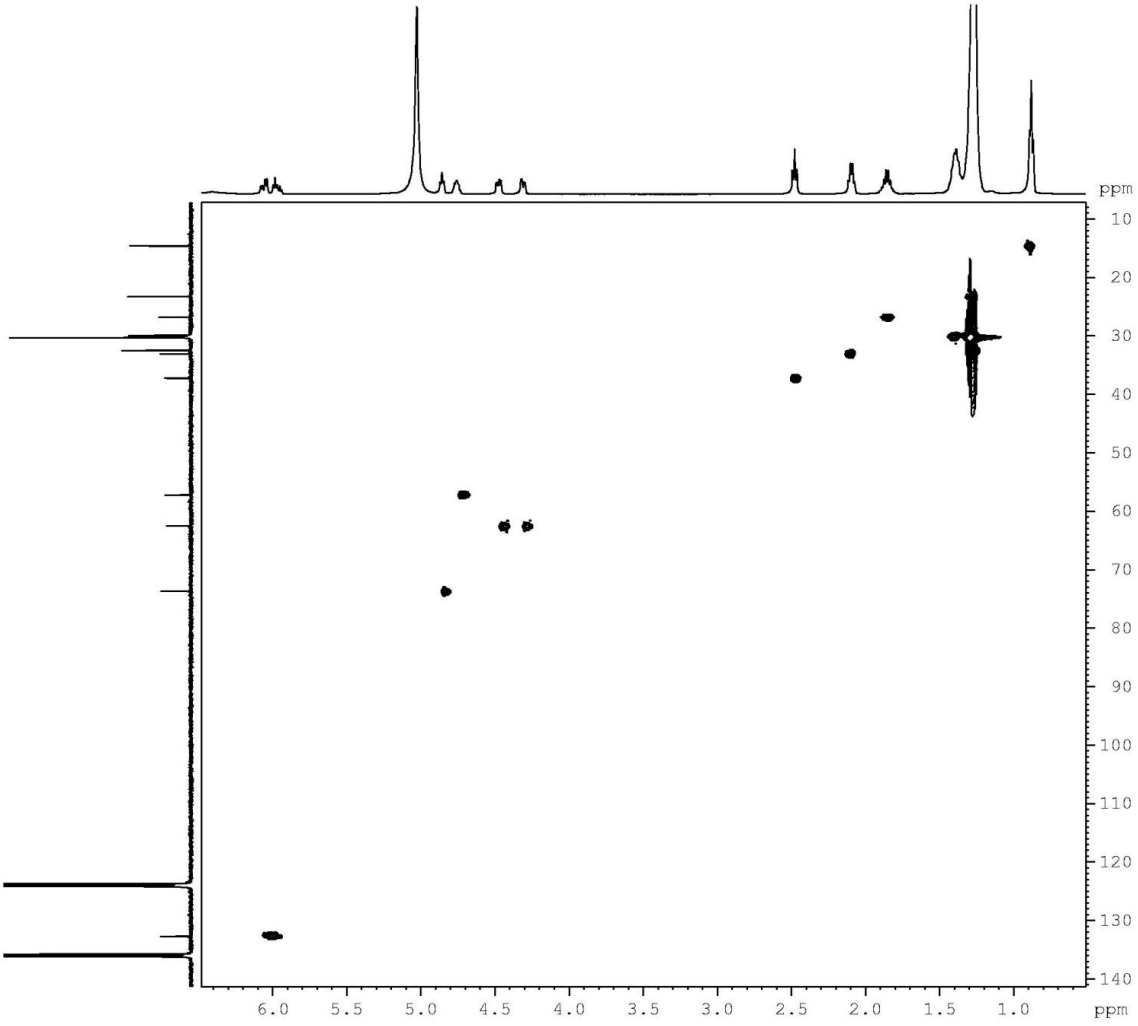

Figure S29. ^{1}H–^{13}C-HMBC spectrum (500 × 125 MHz, pyridine-d_5) of **4**.

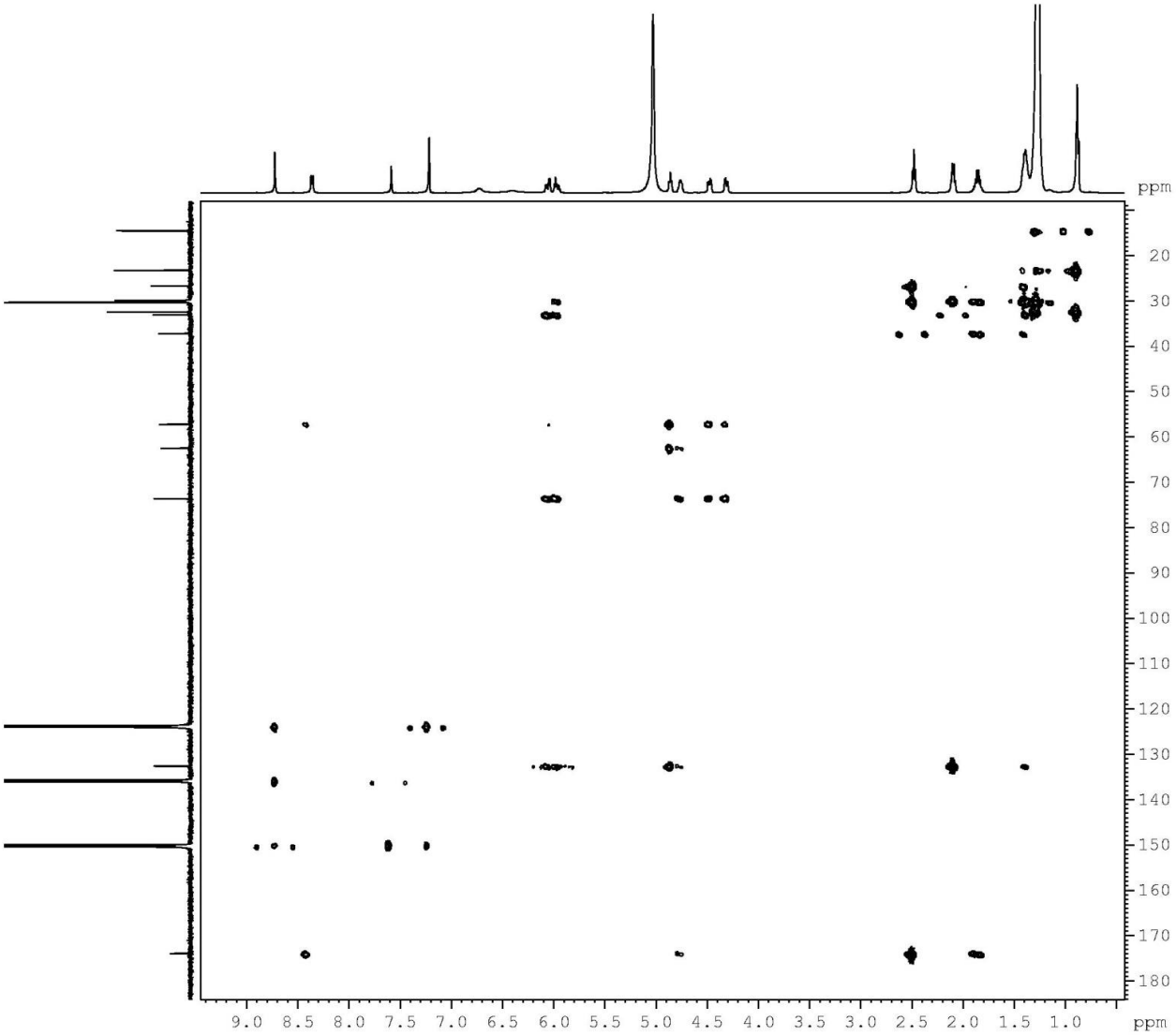

Figure S30. ^{1}H NMR spectrum (500 MHz, $CDCL_3/CD_3OD$) of **3**.

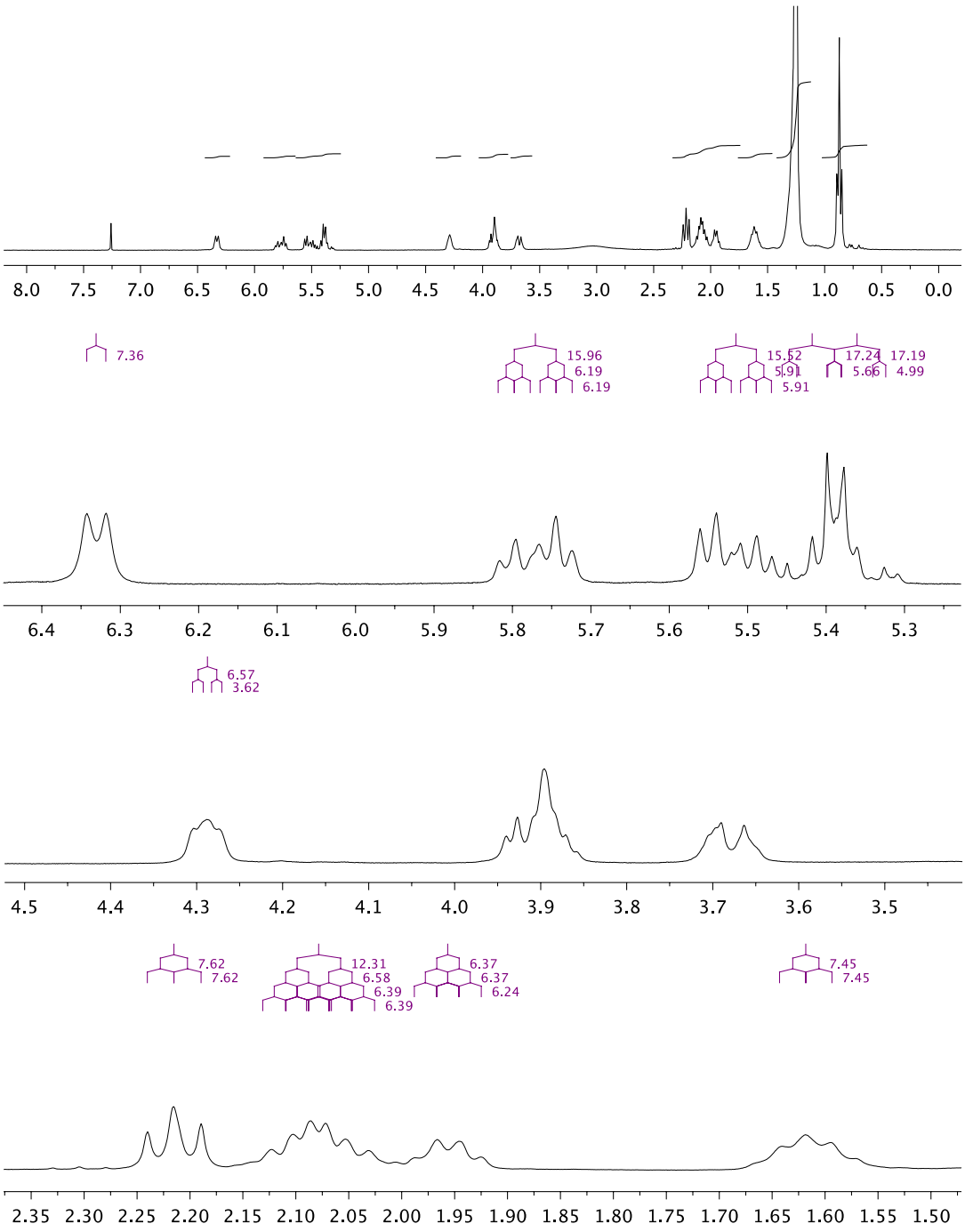

Figure S31. ^{13}C NMR spectrum (125 MHz, $CDCL_3$) of **3**.

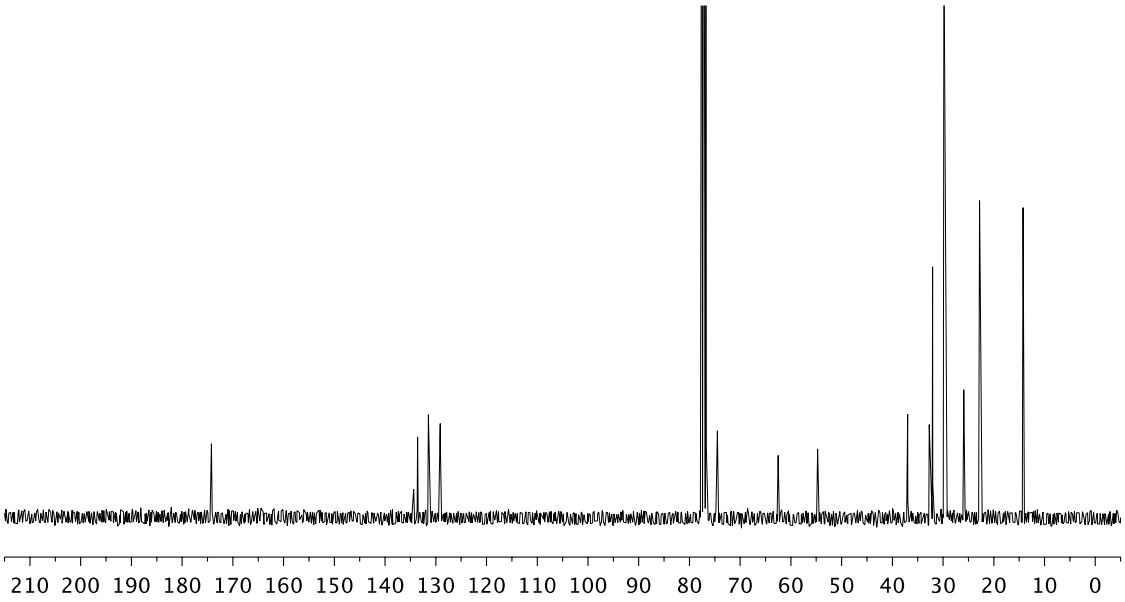

Figure S32. ^{1}H–^{13}C HSQC spectrum (500 × 125 MHz, $CDCl_3$) of **3**.

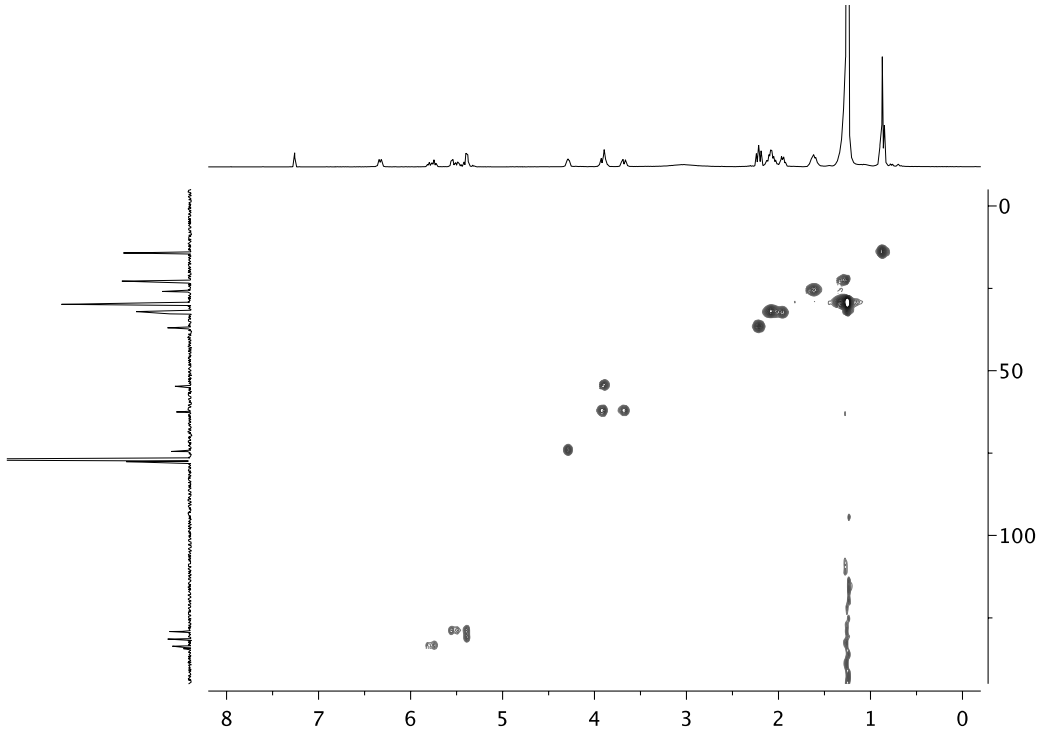

Figure S33. ^{1}H NMR spectrum (500 MHz, $CDCl_3$) of **4**.

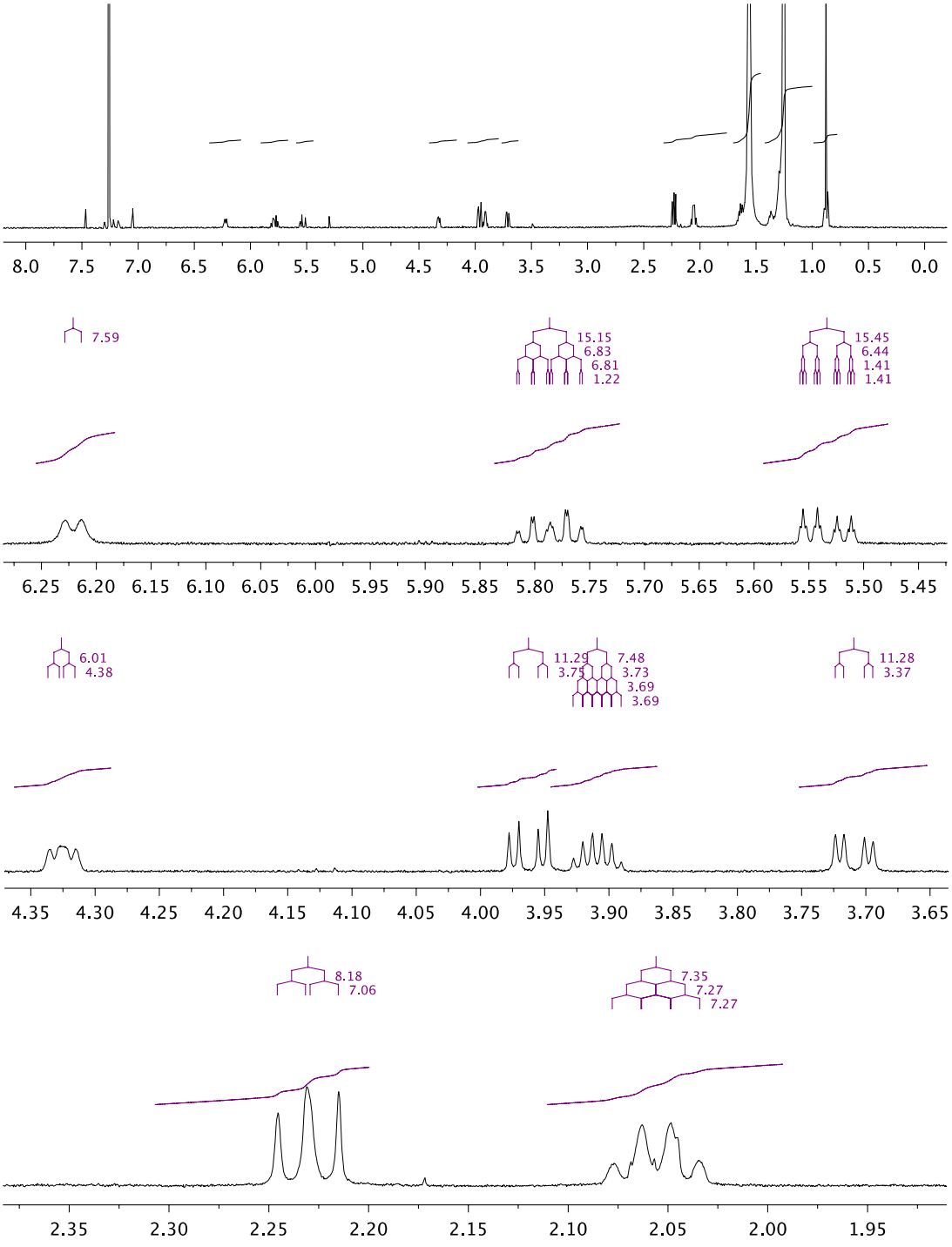

Figure S34. ^{13}C NMR spectrum (125 MHz, $CDCl_3$) of **4**.