

Supplementary Materials

Crystalline bis(η^5 -cyclopentadienyl)bis(benzoato/carboxylato)titanium(IV) precursor-directed route to functional titanium dioxide nanomaterials

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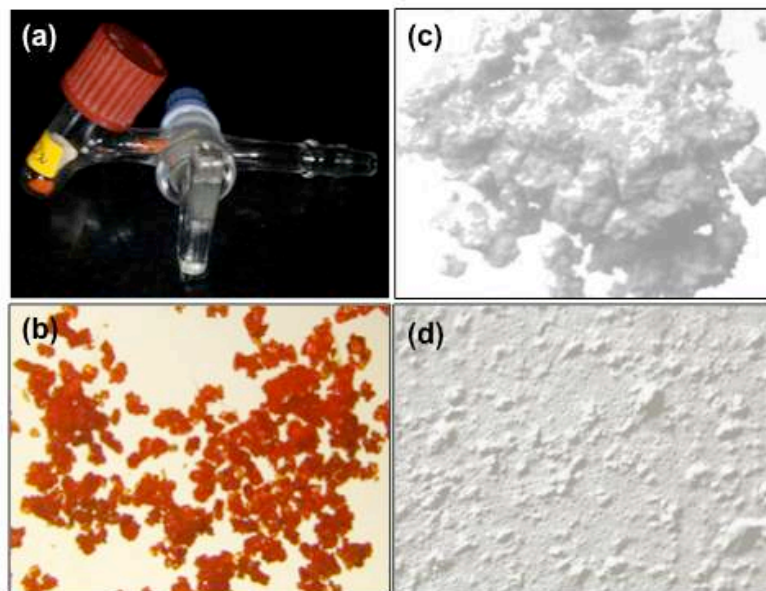


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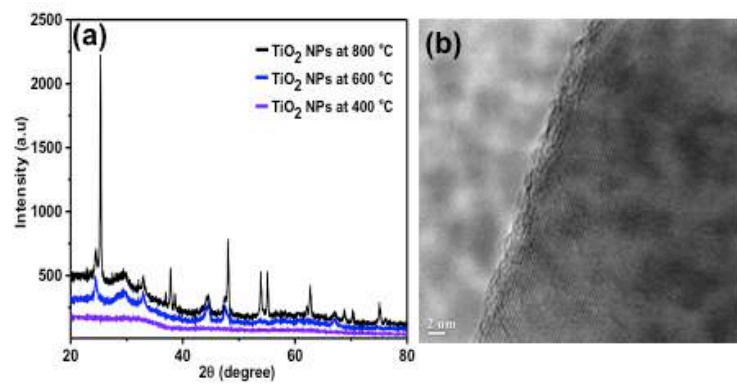


Figure S2. (a) PXRD pattern of as-synthesized TiO₂ nanopowder annealed at 400 °C, 600 °C and 800 °C for anatase phase identification and (b) TEM micrographs of as-synthesized TiO₂ nanopowder annealed at 800 °C at 50 K magnification.

COMP-1-1H.esp

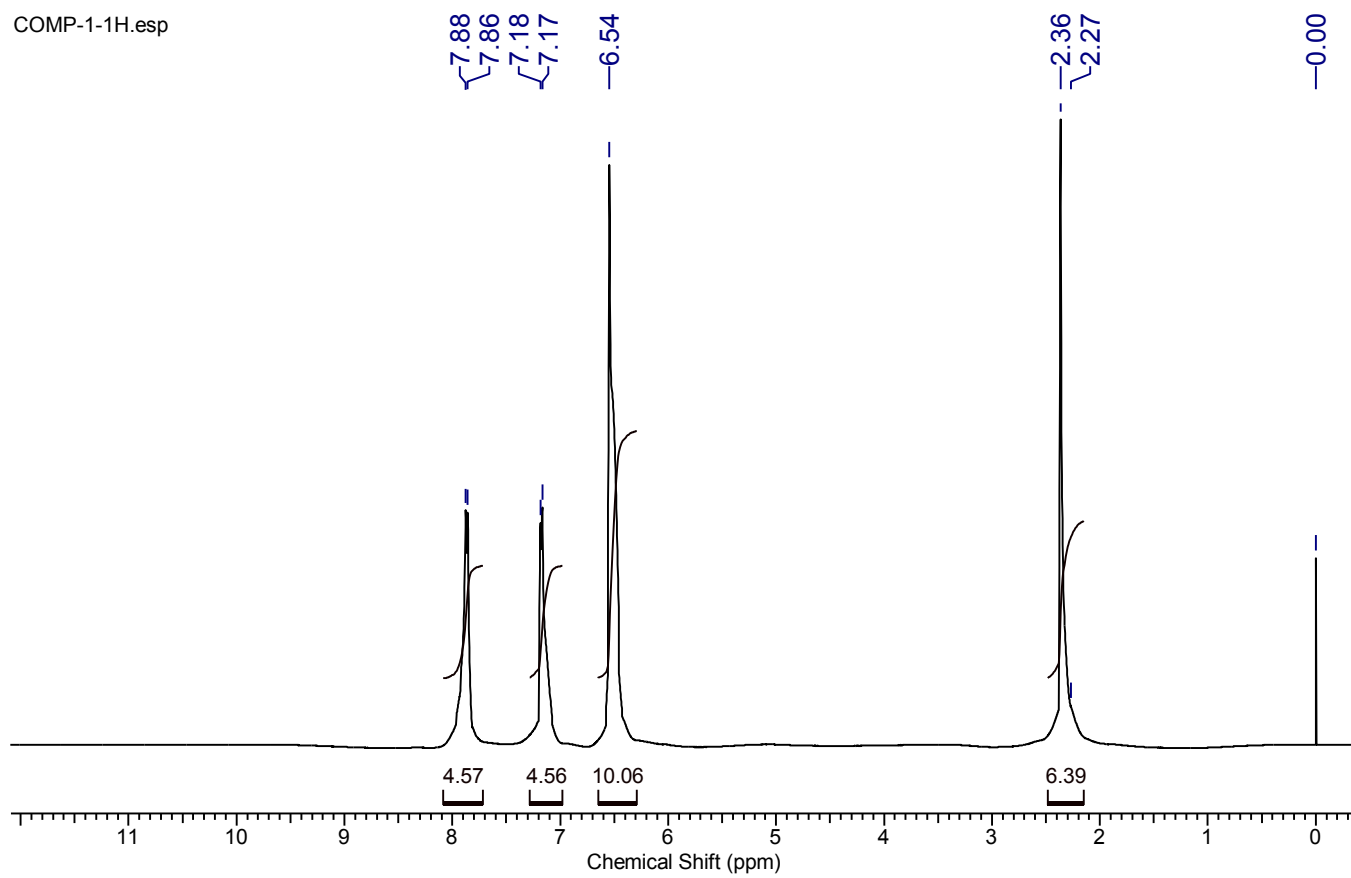


Figure S3. ¹H NMR spectrum of **1** in CDCl₃.

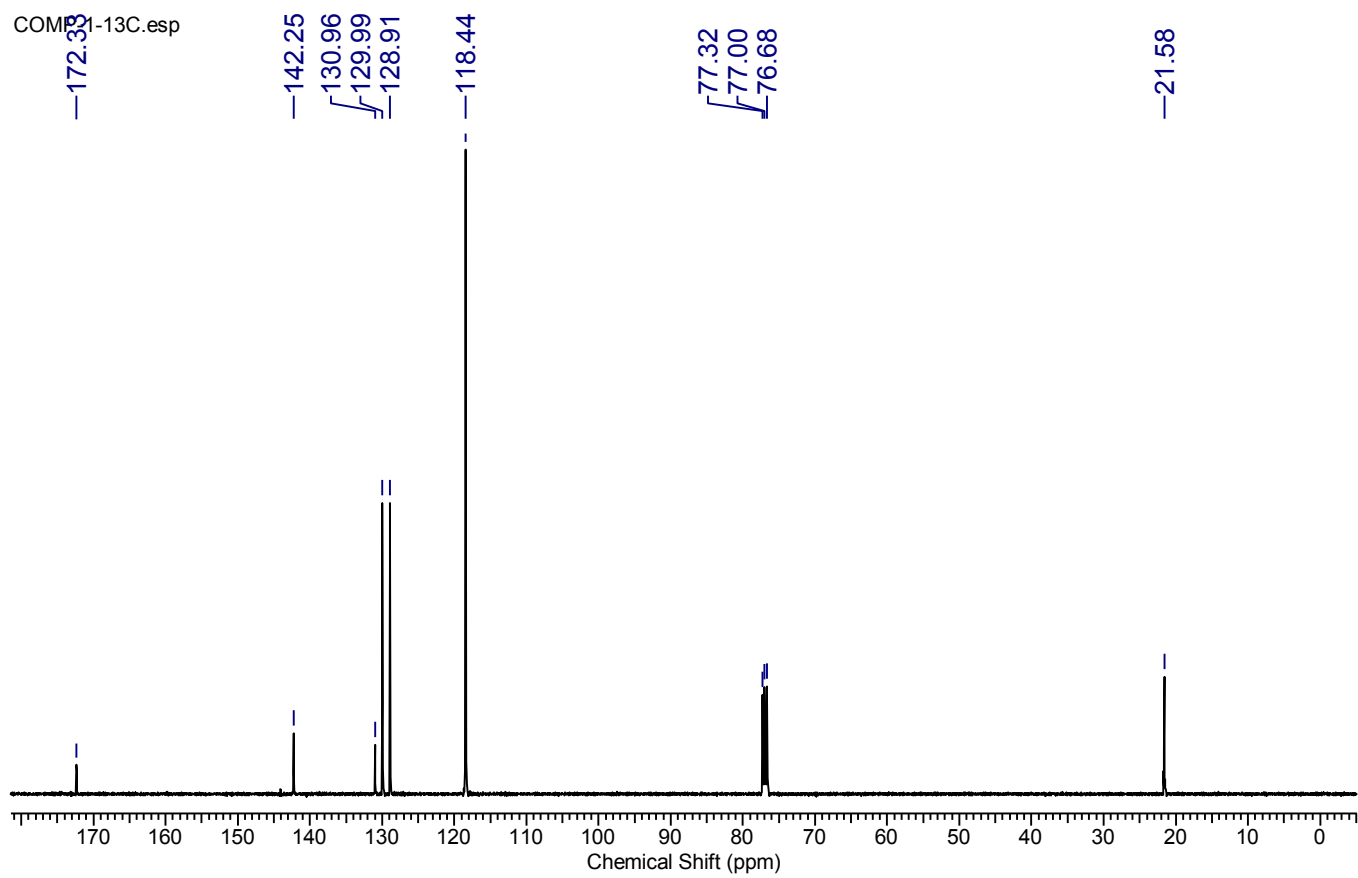


Figure S4. ^{13}C NMR spectrum of **1** in CDCl_3 .

COMP-2-1H.esp

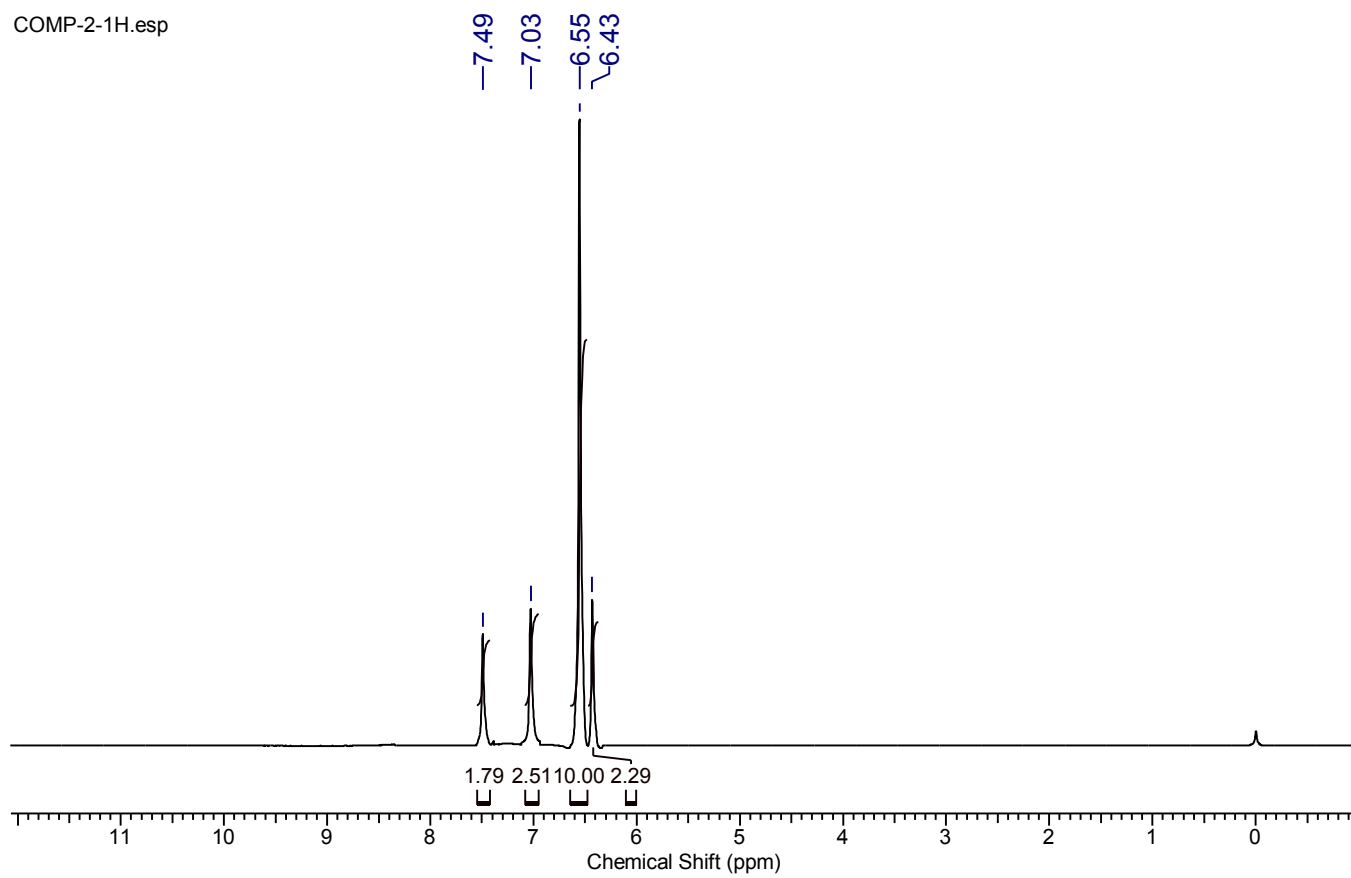


Figure S5. ^1H NMR spectrum of **2** in CDCl_3 .

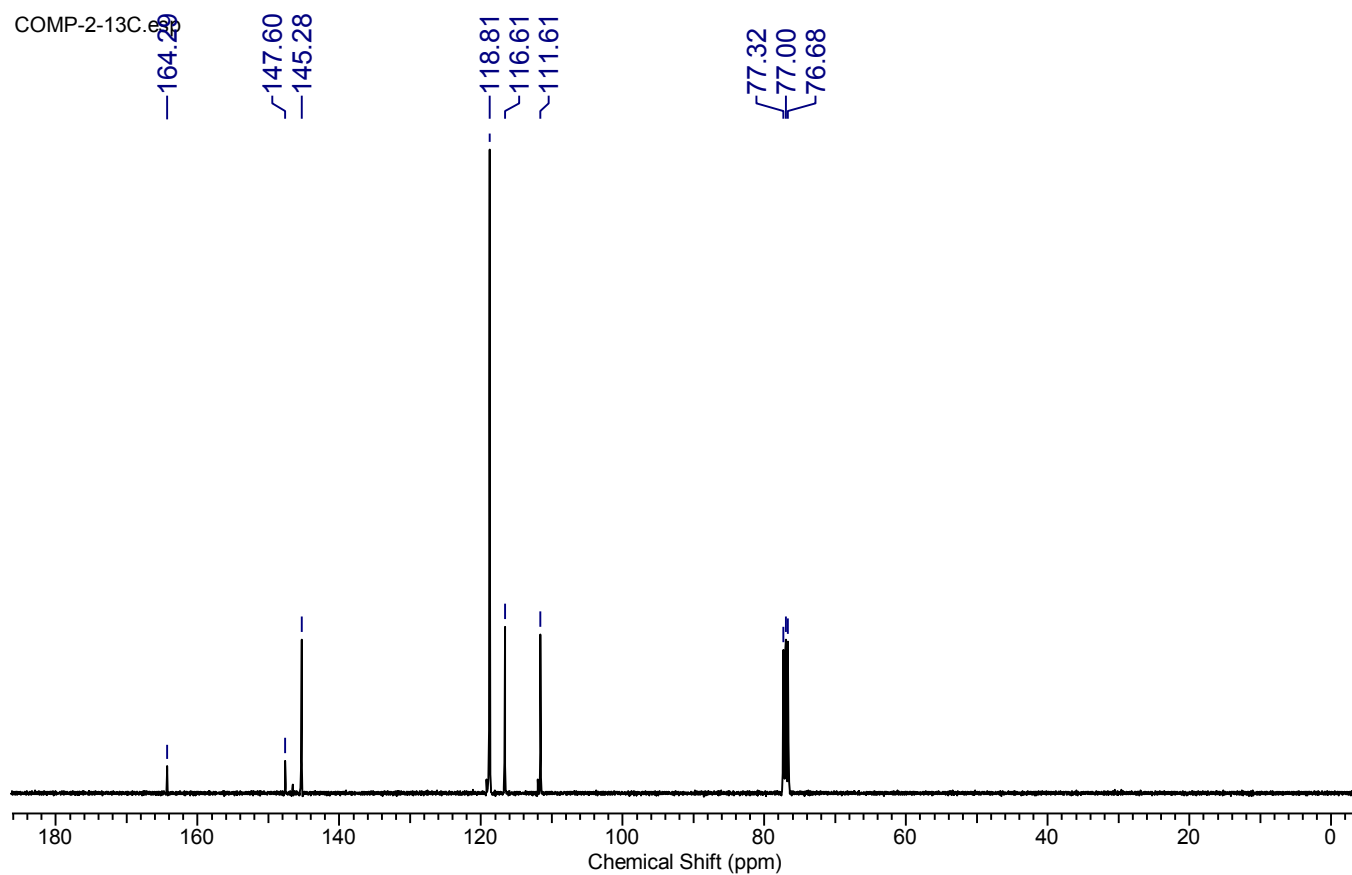


Figure S6. ^{13}C NMR spectrum of **2** in CDCl_3 .

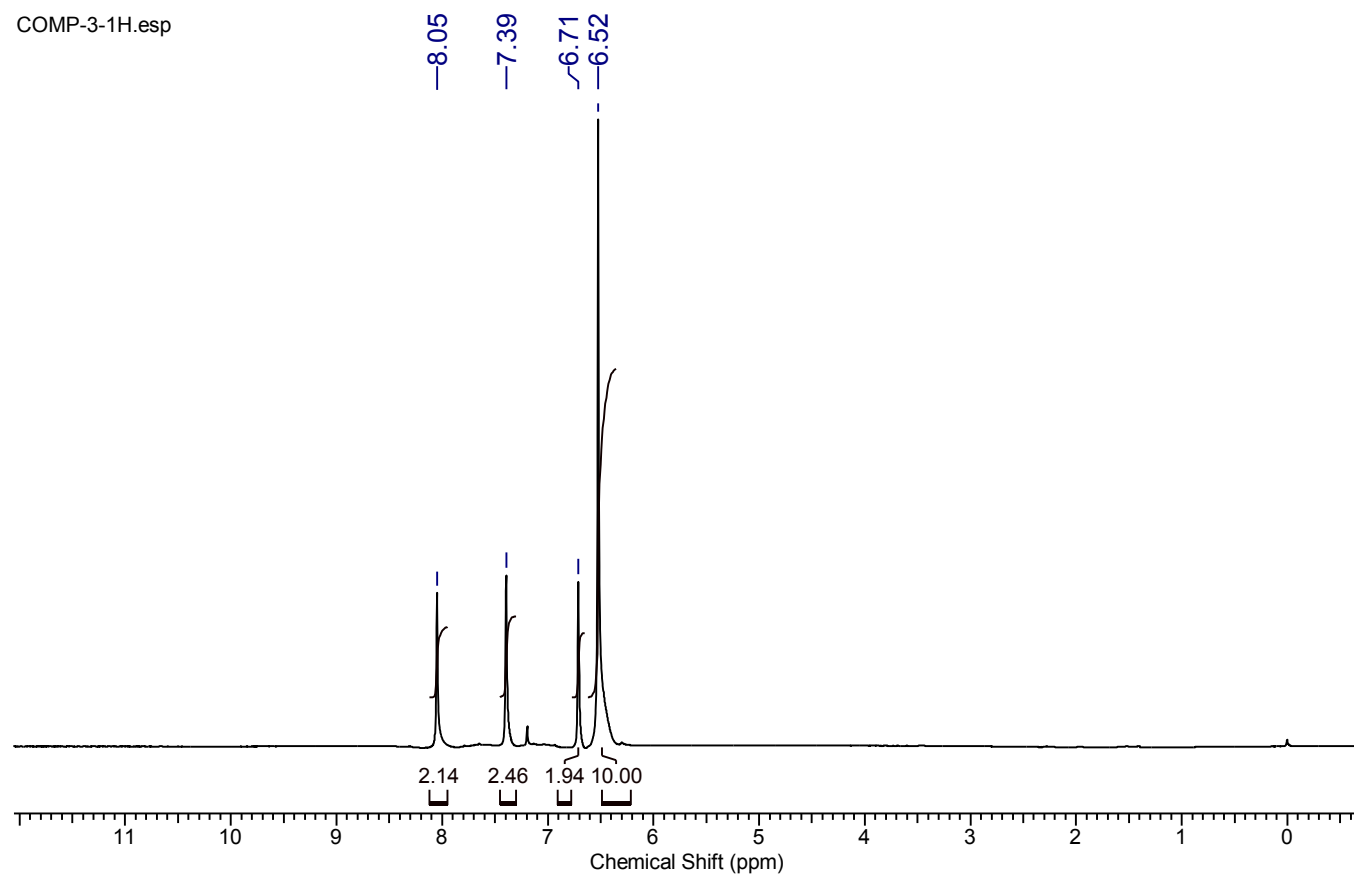


Figure S7. ¹H NMR spectrum of **3** in CDCl₃.

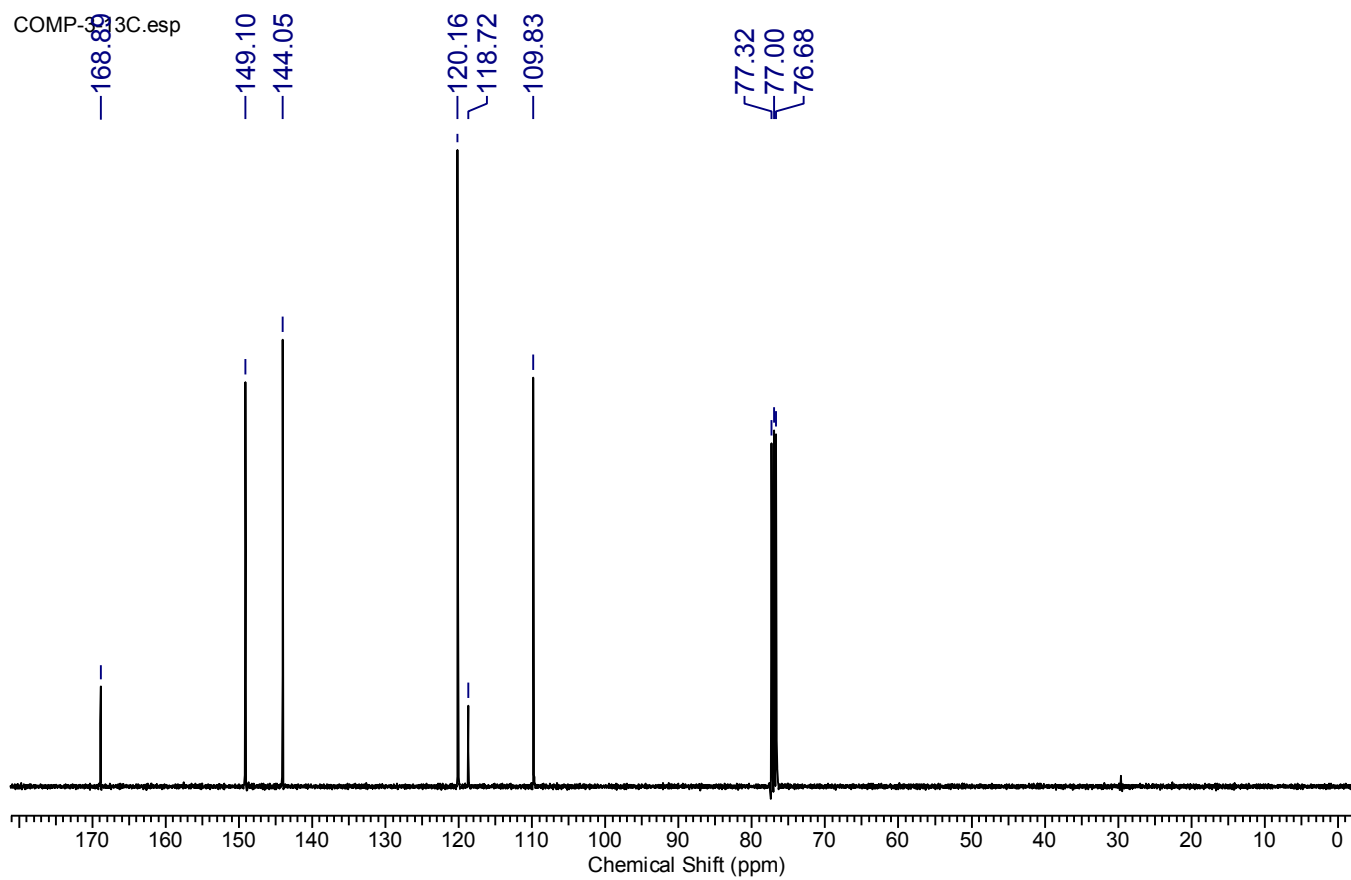


Figure S8. ^{13}C NMR spectrum of **3** in CDCl_3 .

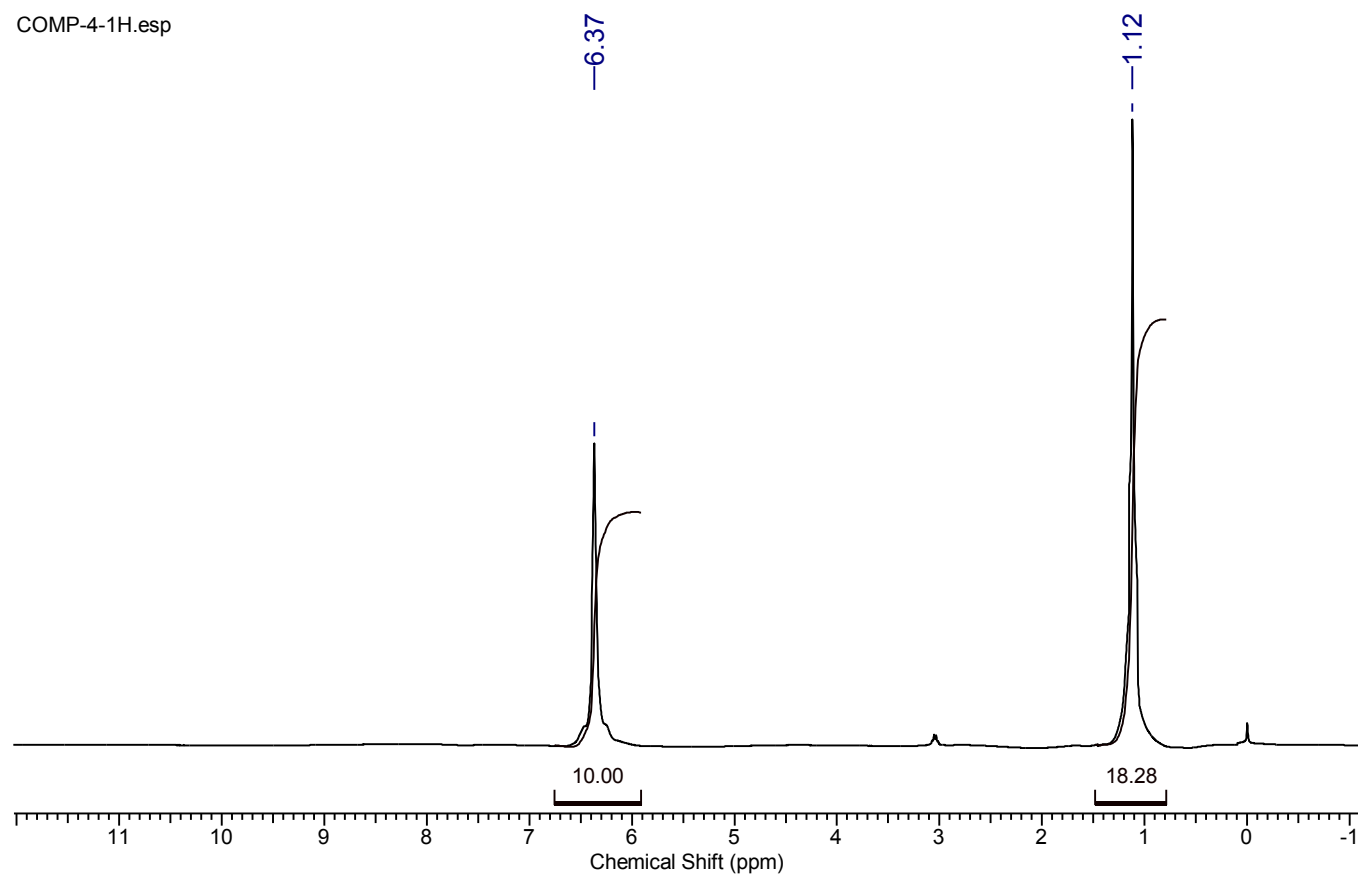


Figure S9. ^1H NMR spectrum of **4** in CDCl_3 .

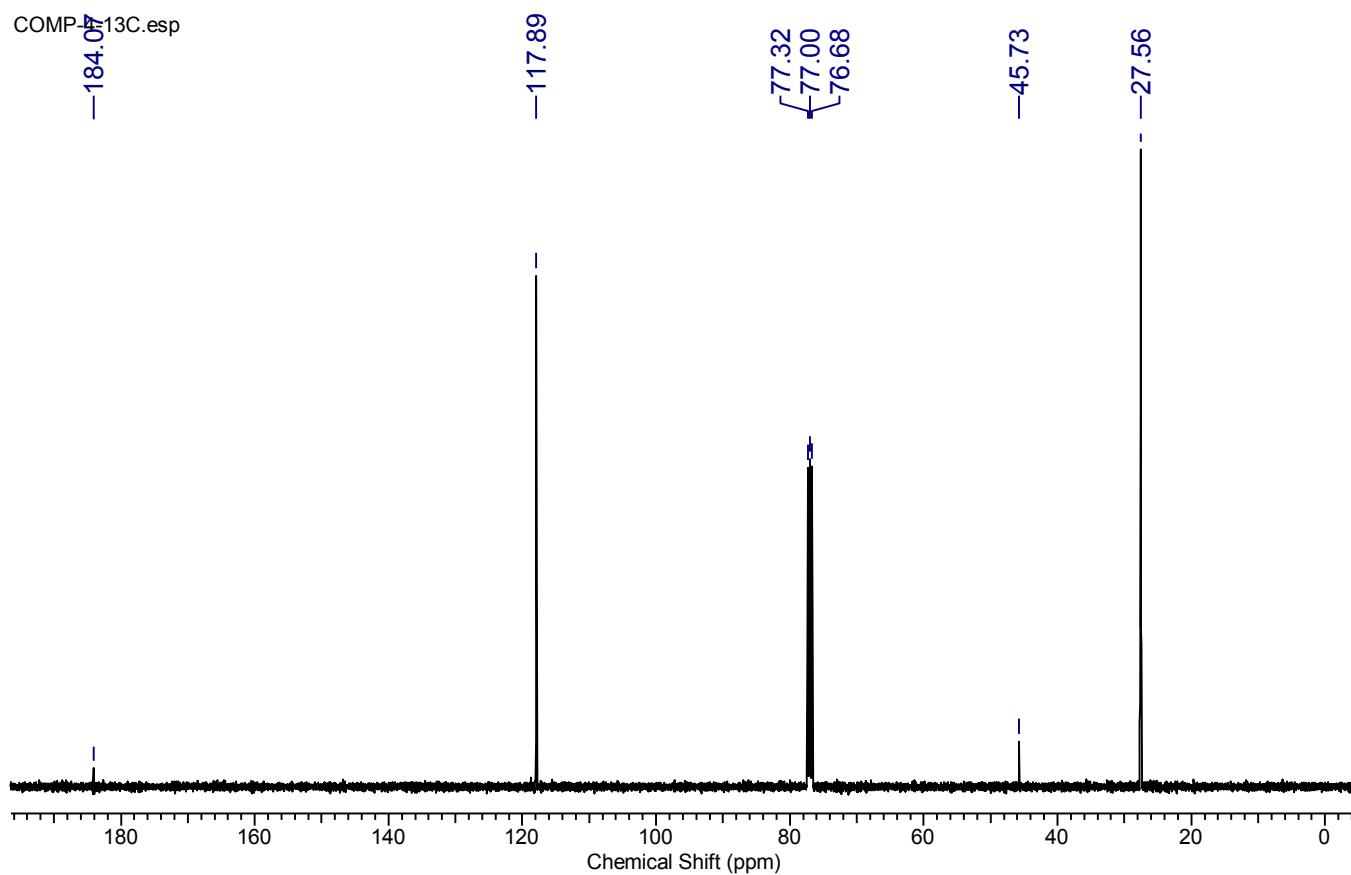


Figure S10. ^{13}C NMR spectrum of **4** in CDCl_3 .

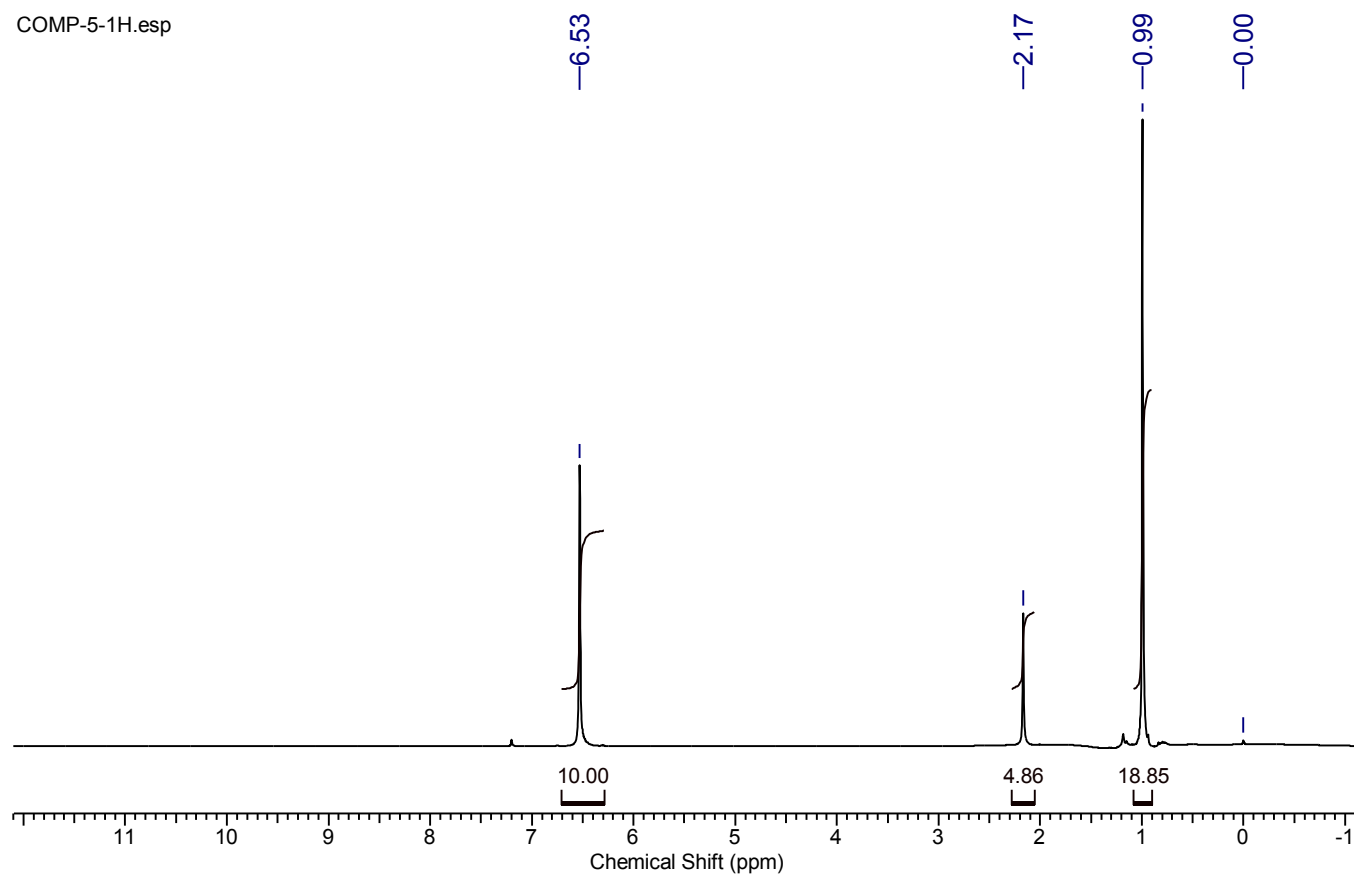


Figure S11. ¹H NMR spectrum of **5** in CDCl₃.

COMPL-13C.esp

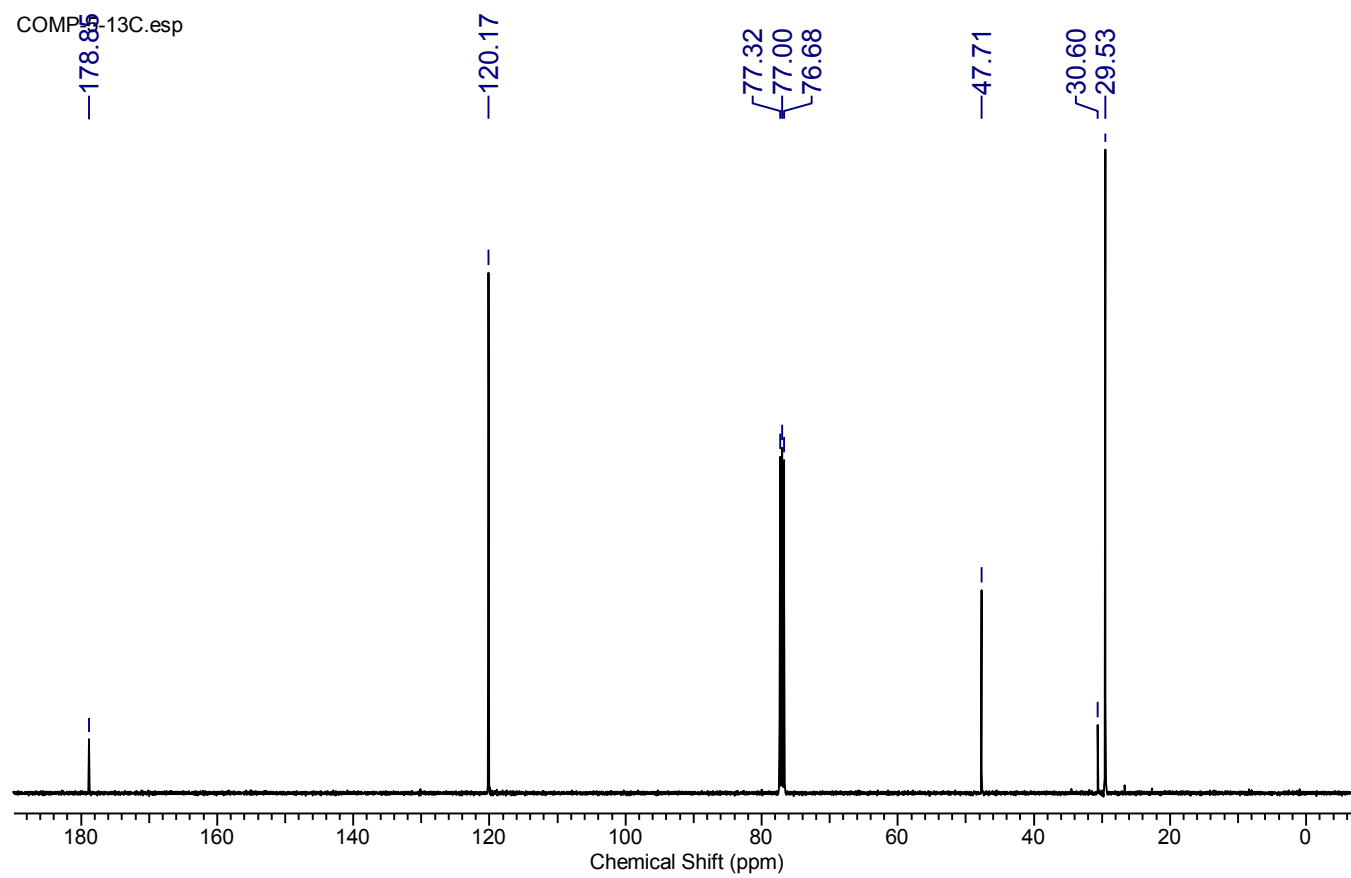


Figure S12. ¹³C NMR spectrum of **5** in CDCl₃.

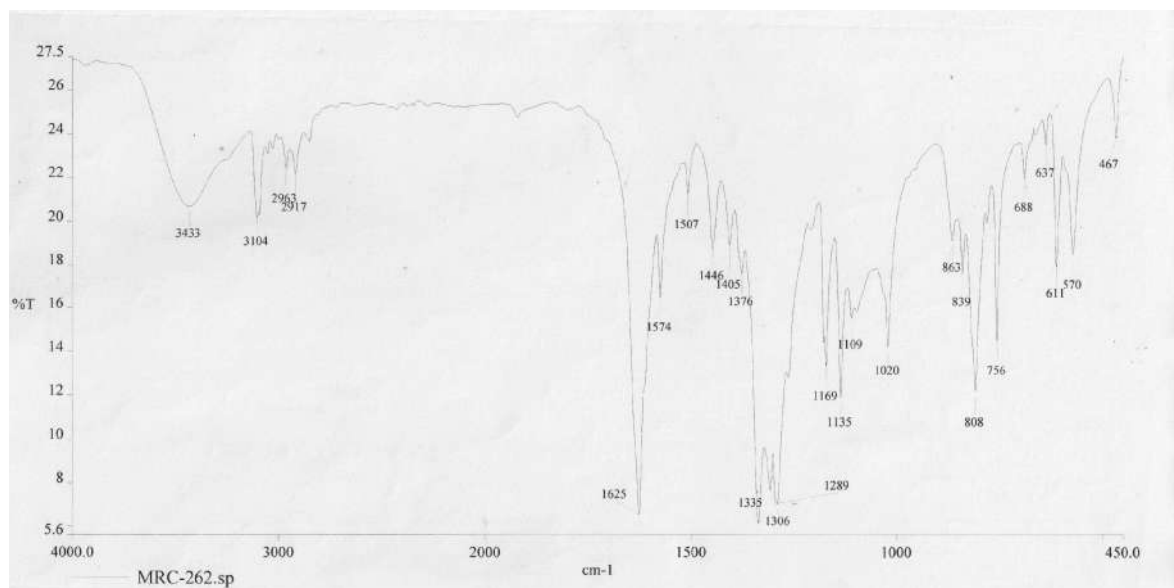


Figure S13. IR spectrum of **1** in KBr.

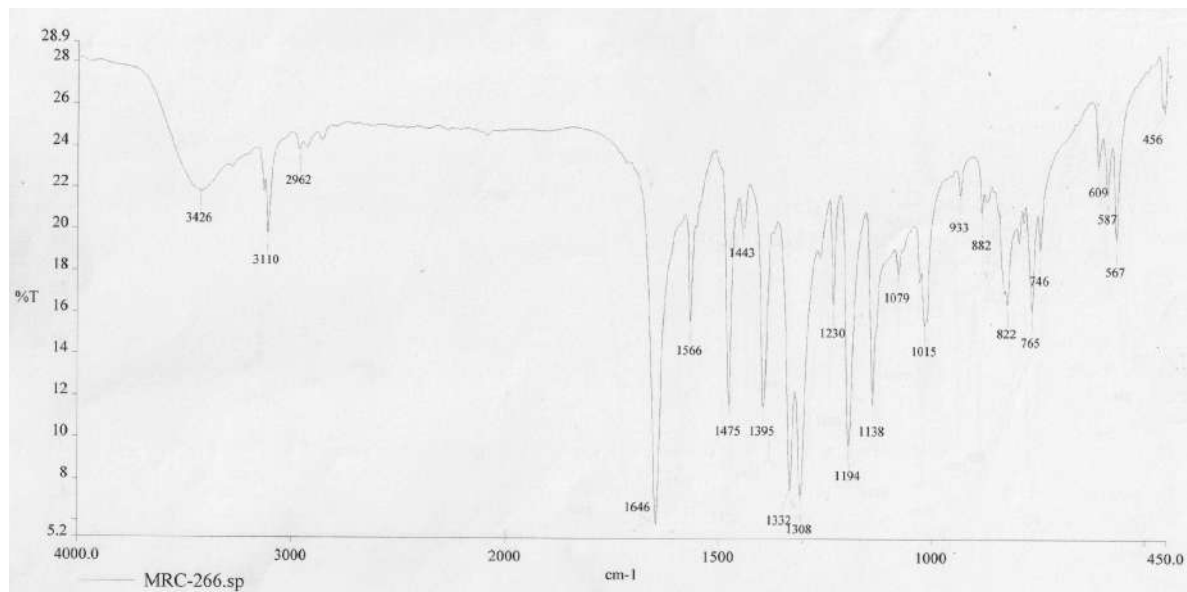


Figure S14. IR spectrum of **2** in KBr.

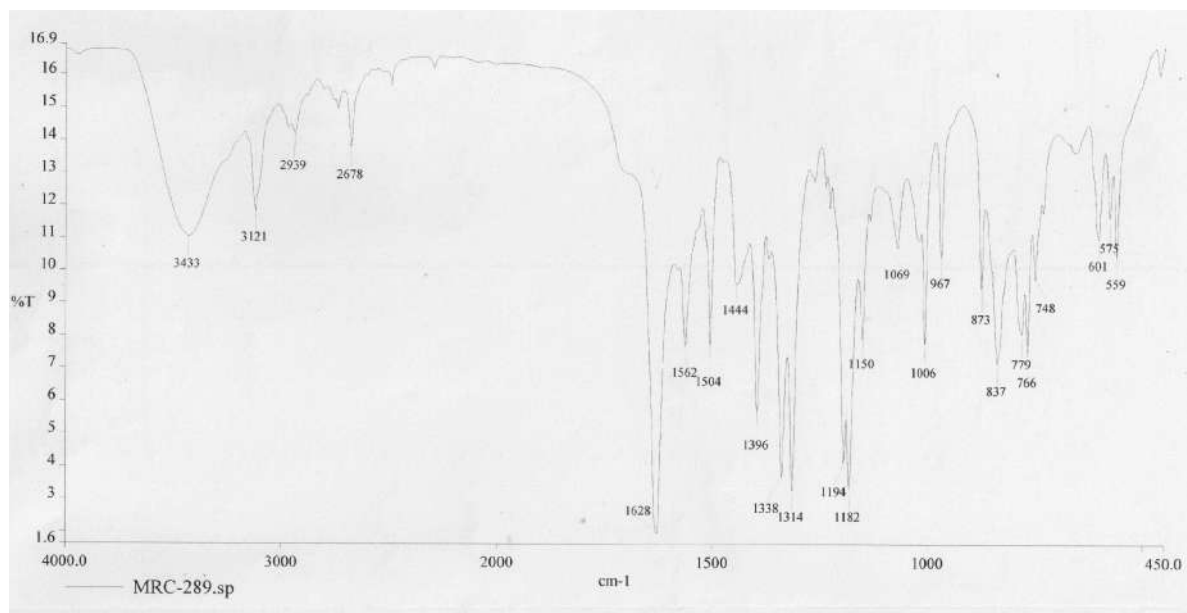


Figure S15. IR spectrum of **3** in KBr.

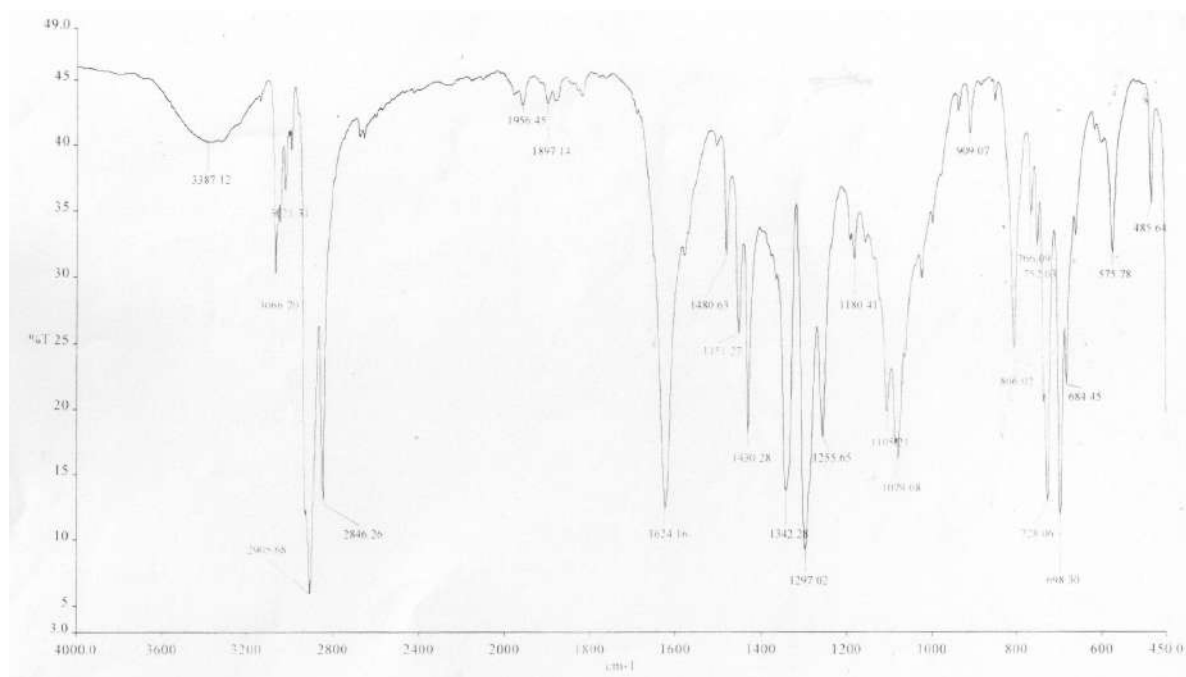


Figure S16. IR spectrum of **4** in KBr.

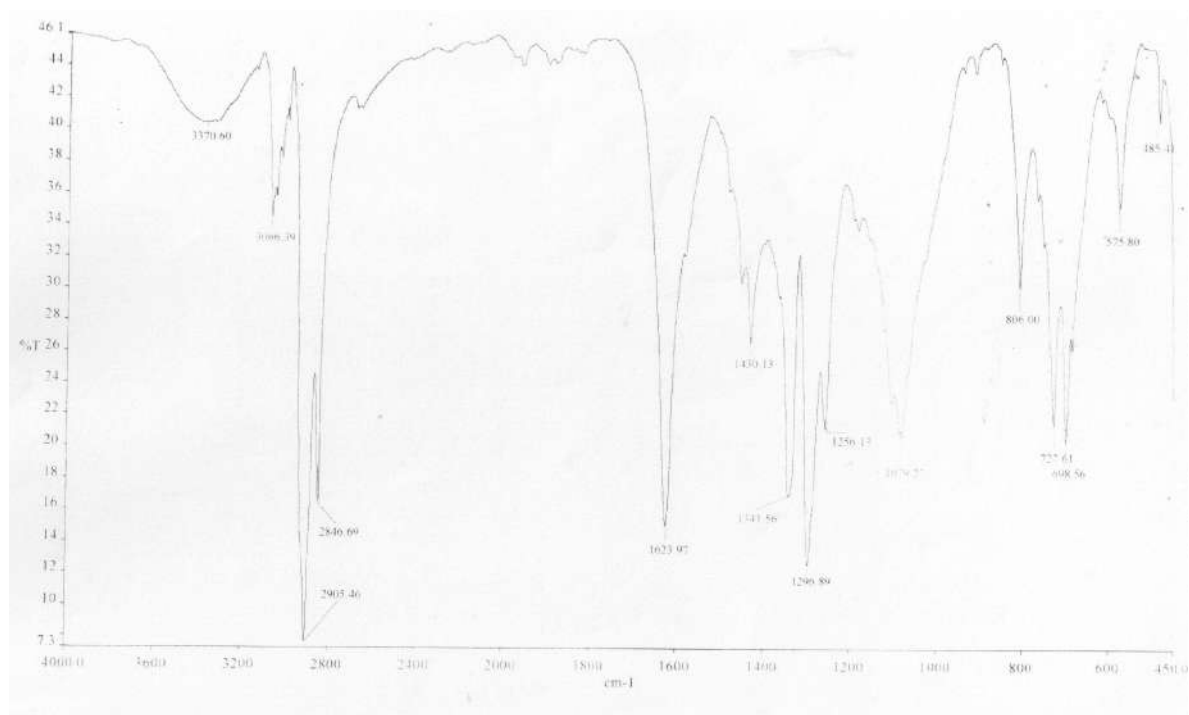


Figure S17. IR spectrum of **5** in KBr.