

Supplementary materials

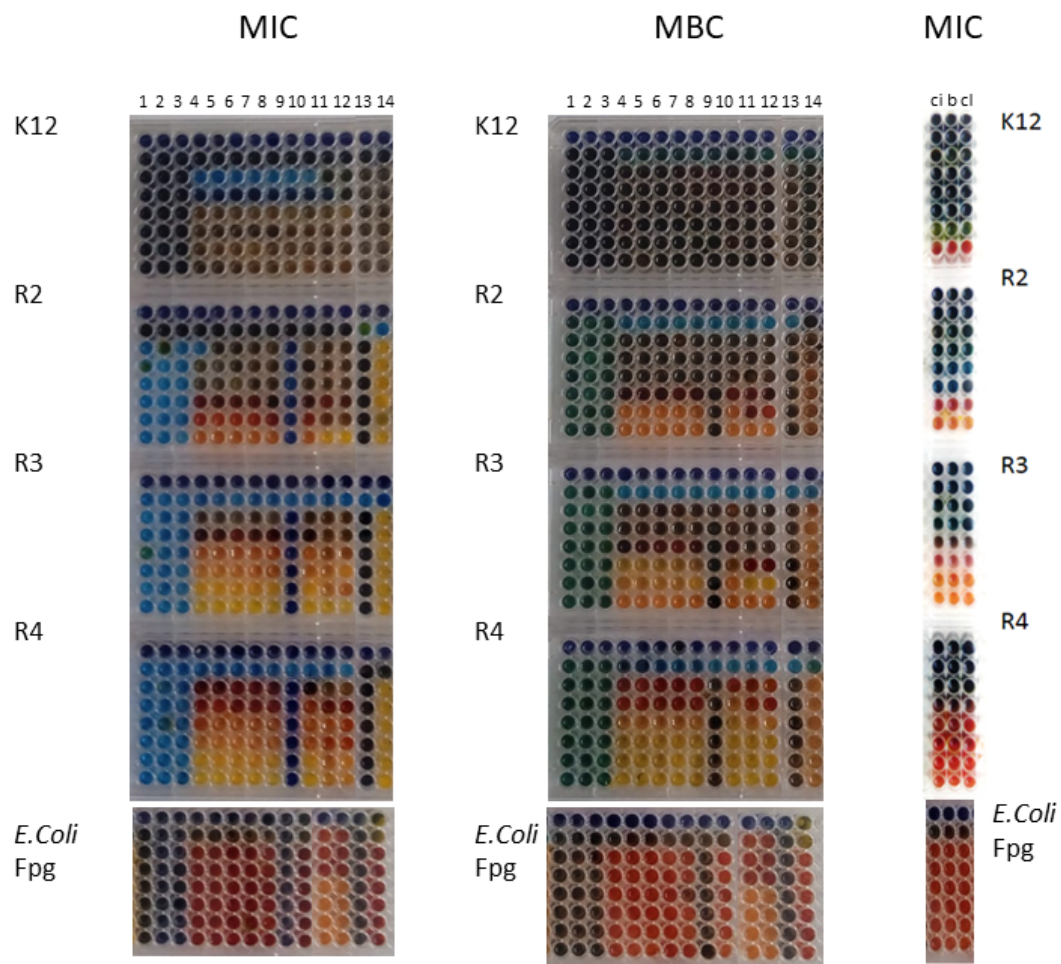


Figure S1. Examples of MIC and MBC on microplates with different concentration of studied compounds ($\mu\text{g/mL}^{-1}$). Resazurin was added as an indicator of microbial growth with K12, R2, R3, R4 strains and *E. coli* Fpg with tested compounds, as described in Figure 4 and 5. Additionally, examples of MIC with different strains K12, R2, R3, R4 and *E. coli* Fpg of studied antibiotics with ciprofloxacin (ci), bleomycin (b), and cloxacillin (cl) in ($\mu\text{g/mL}^{-1}$).

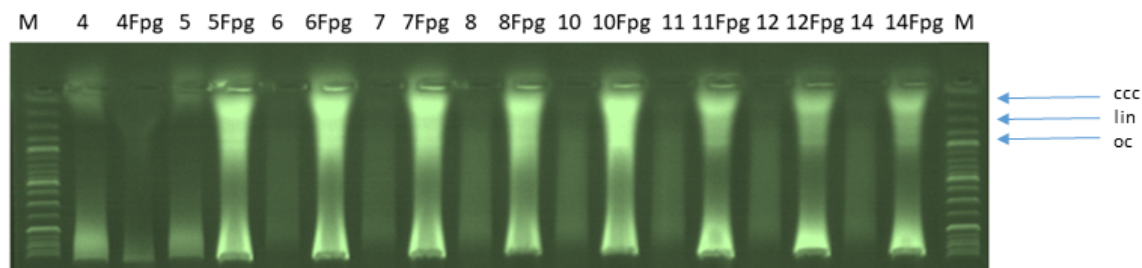


Figure S2. An example of an agarose gel electrophoresis separation of isolated plasmids DNA on R4 strains modified with selected coumarin derivatives and digested with repair Fpg protein. M = marker.

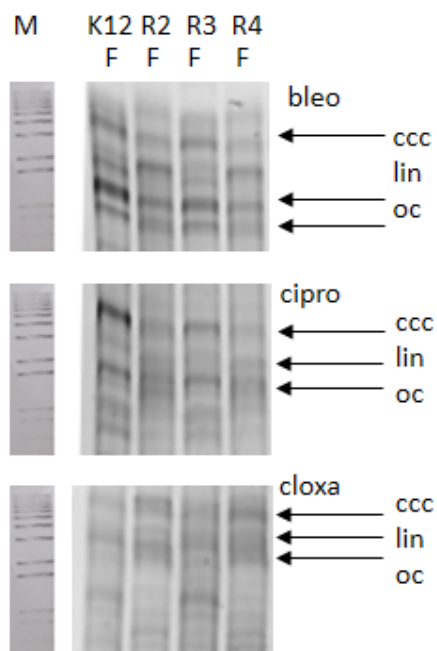


Figure S3. Example of an agarose gel electrophoresis separation of isolated plasmids DNA from K12 and R4 strains modified with antibiotics: bleomycin, ciprofloxacin, and cloxacillin digested (or not) with repair enzymes Fpg. M = marker.

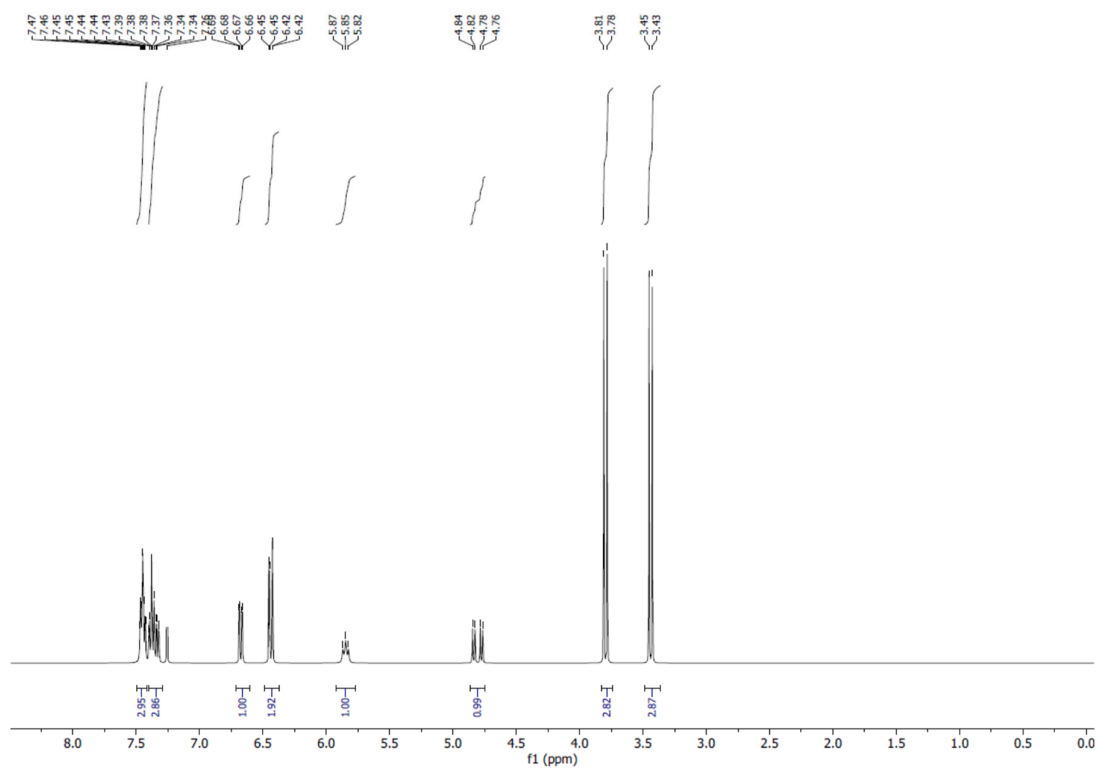


Figure S4. ¹H NMR (400 MHz, CDCl₃) of (1).

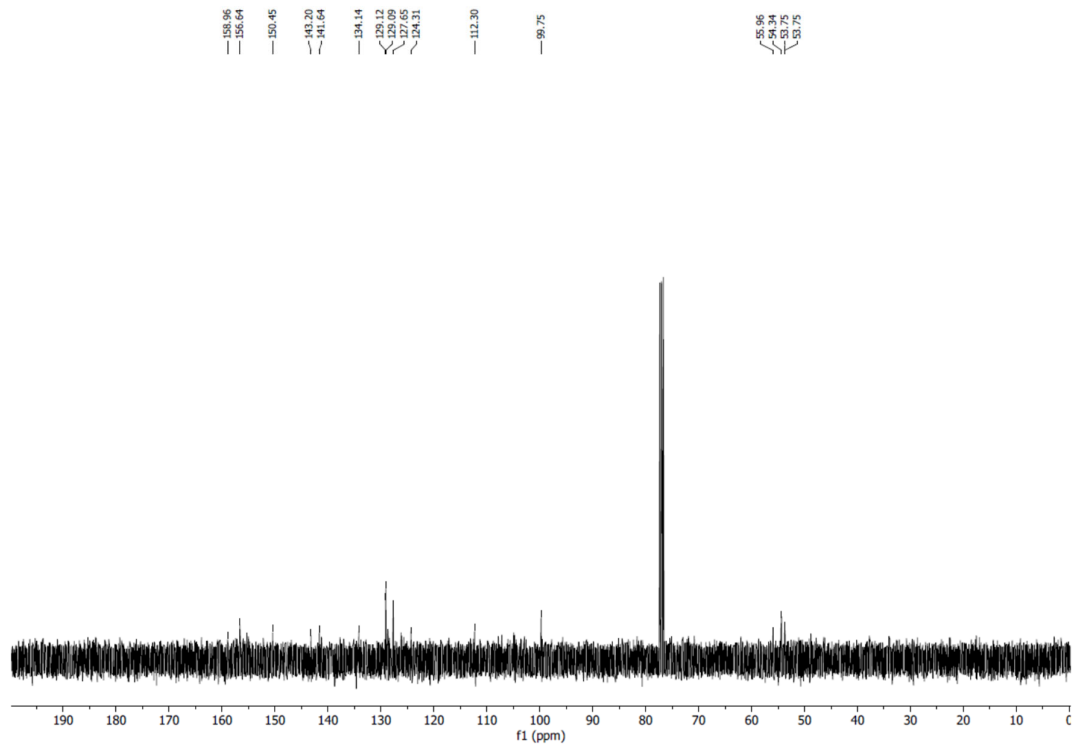


Figure S5. ¹³C NMR (100 MHz, CDCl₃) of (1).

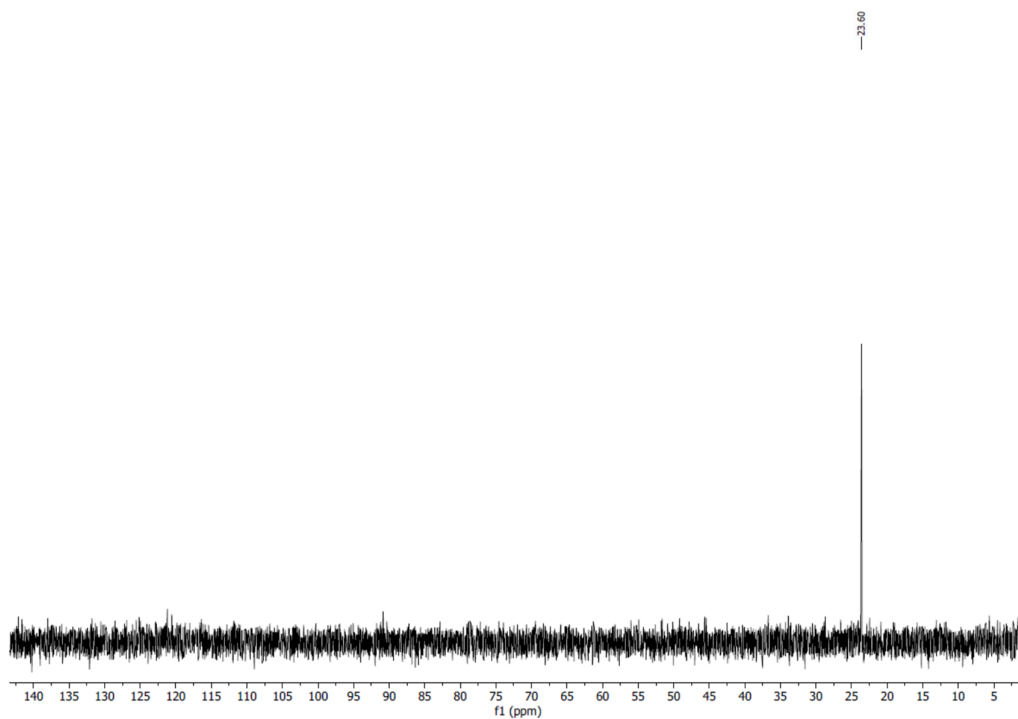


Figure S6. ³¹P NMR (162 MHz, CDCl₃) of (1).

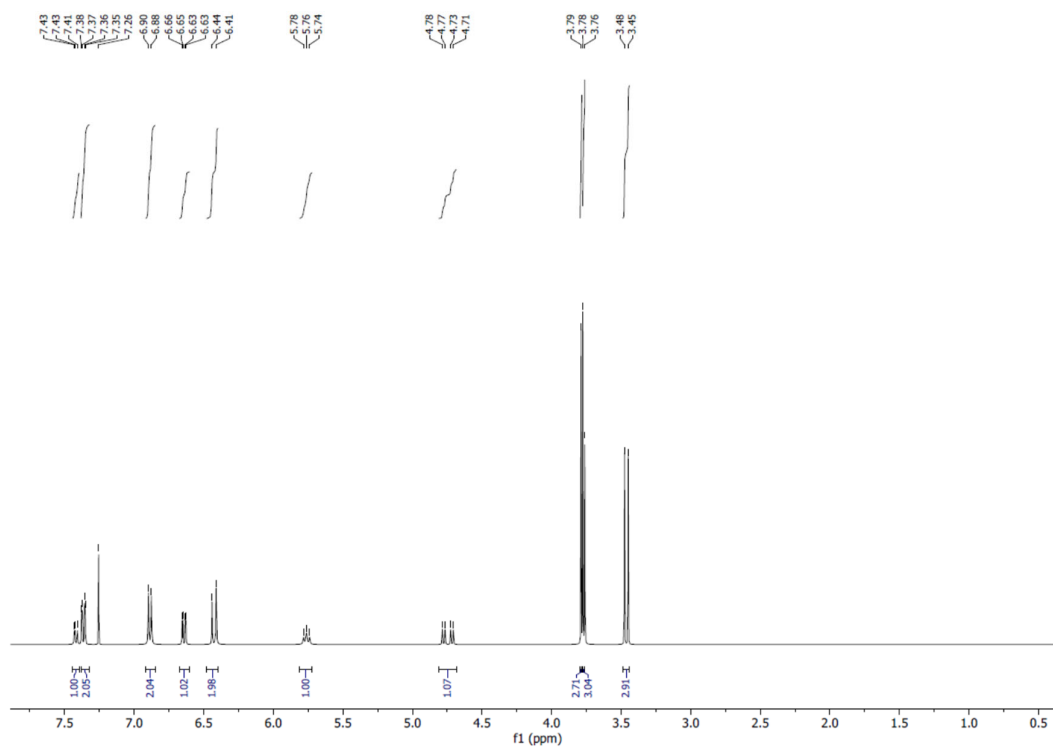


Figure S7. ¹H NMR (400 MHz, CDCl₃) of (2).

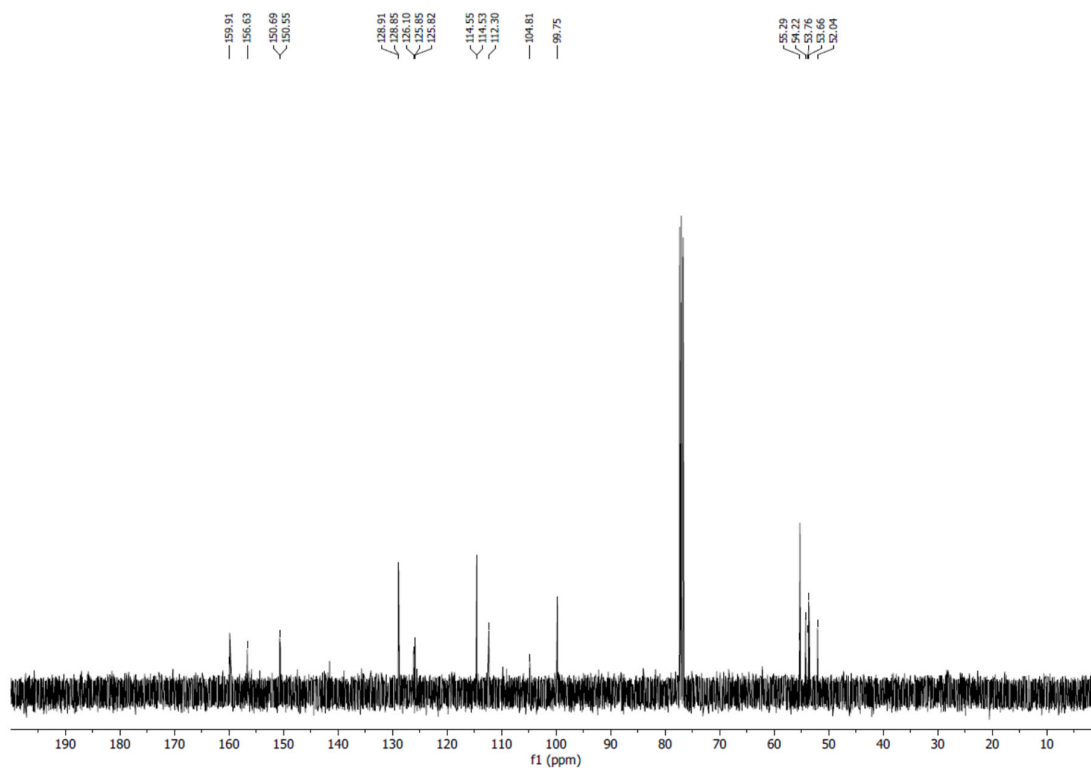


Figure S8. ^{13}C NMR (100 MHz, CDCl_3) of (2).

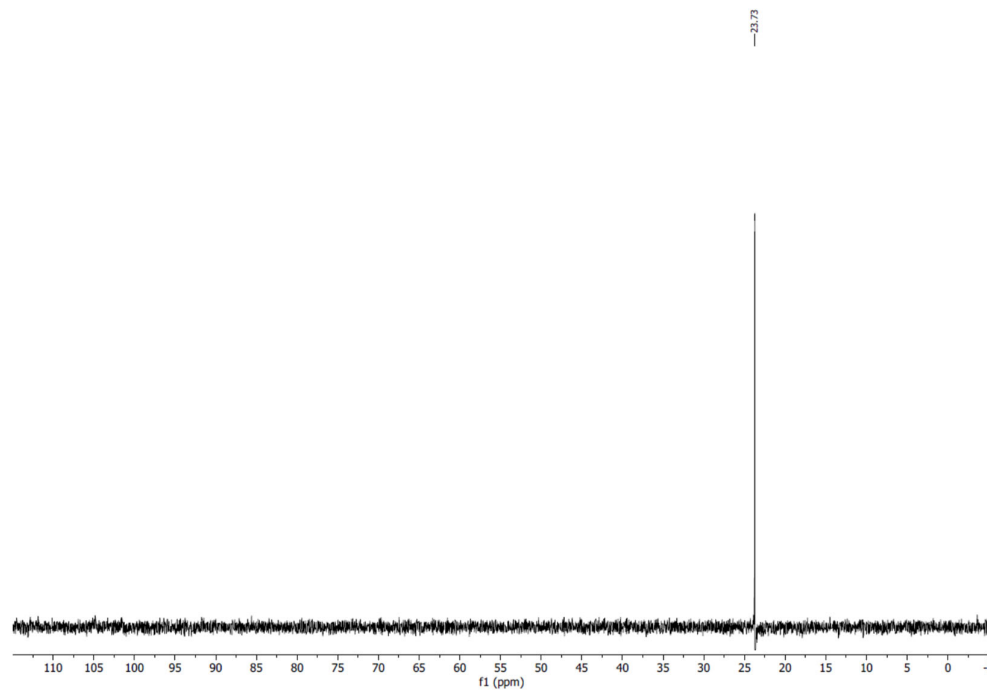


Figure S9. ^{31}P NMR (162 MHz, CDCl_3) of (2).

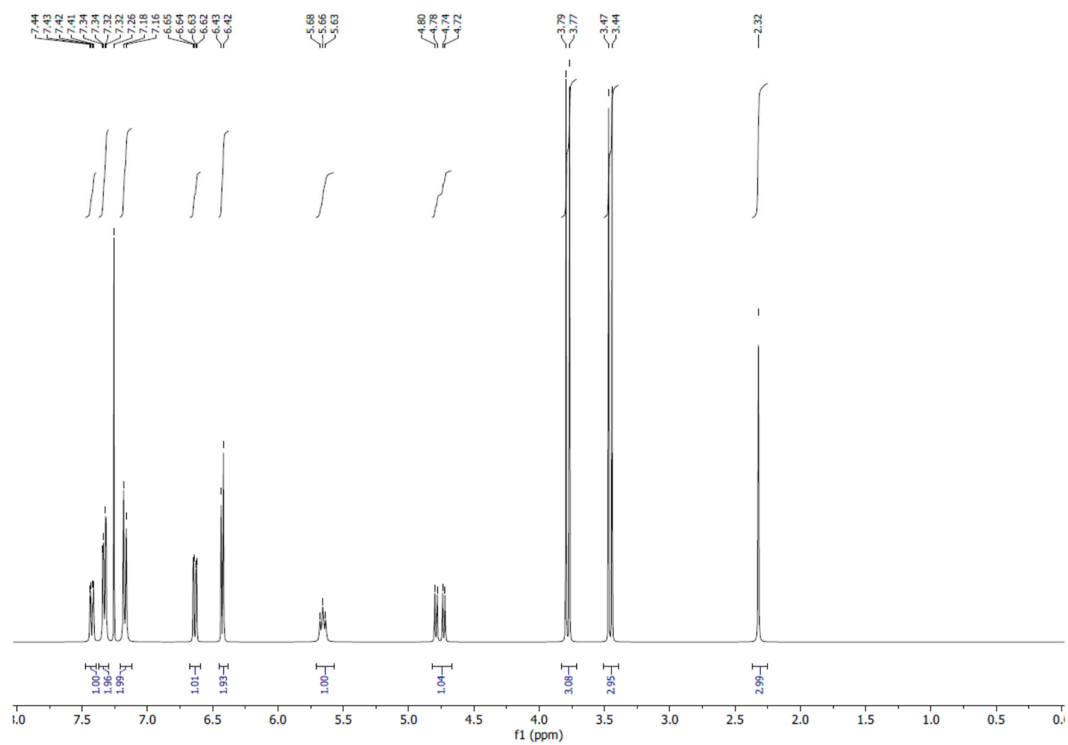


Figure S10. ^1H NMR (400 MHz, CDCl_3) of (3).

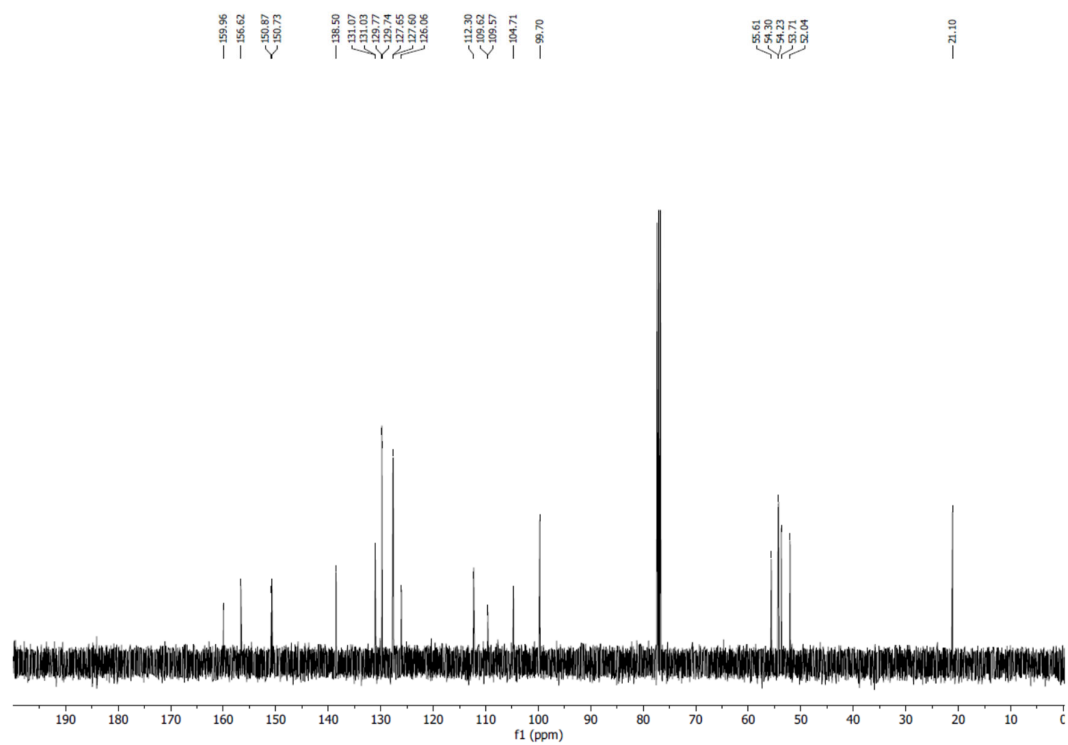


Figure S11. ^{13}C NMR (100 MHz, CDCl_3) of (3).

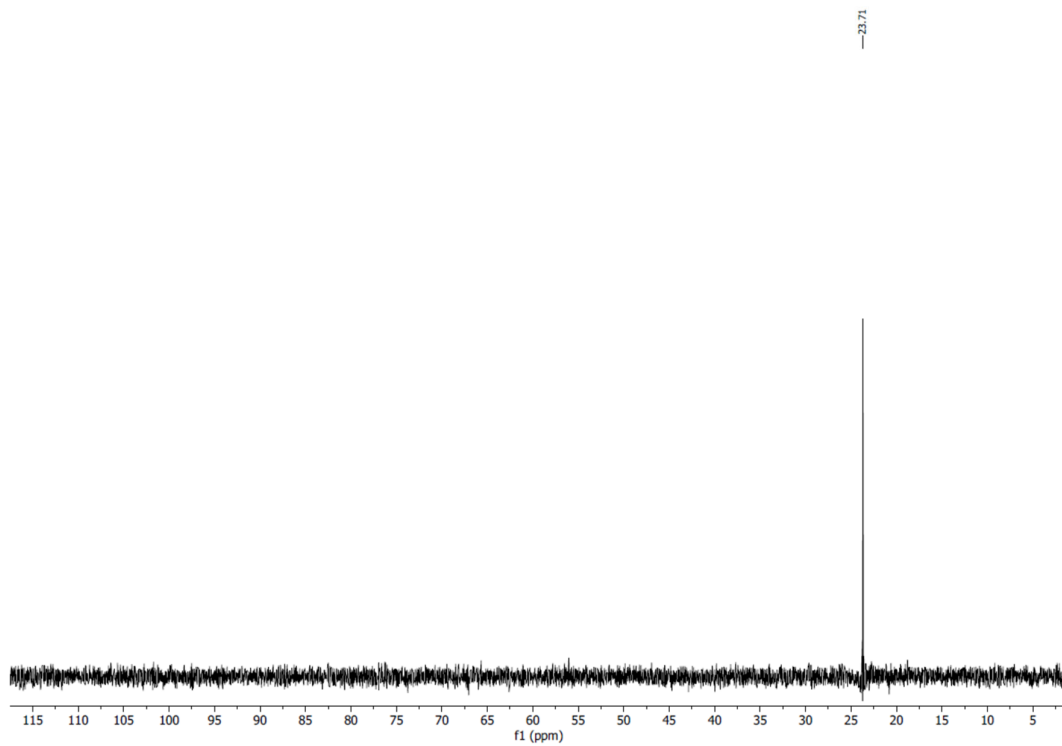


Figure S12. ³¹P NMR (162 MHz, CDCl₃) of (3).

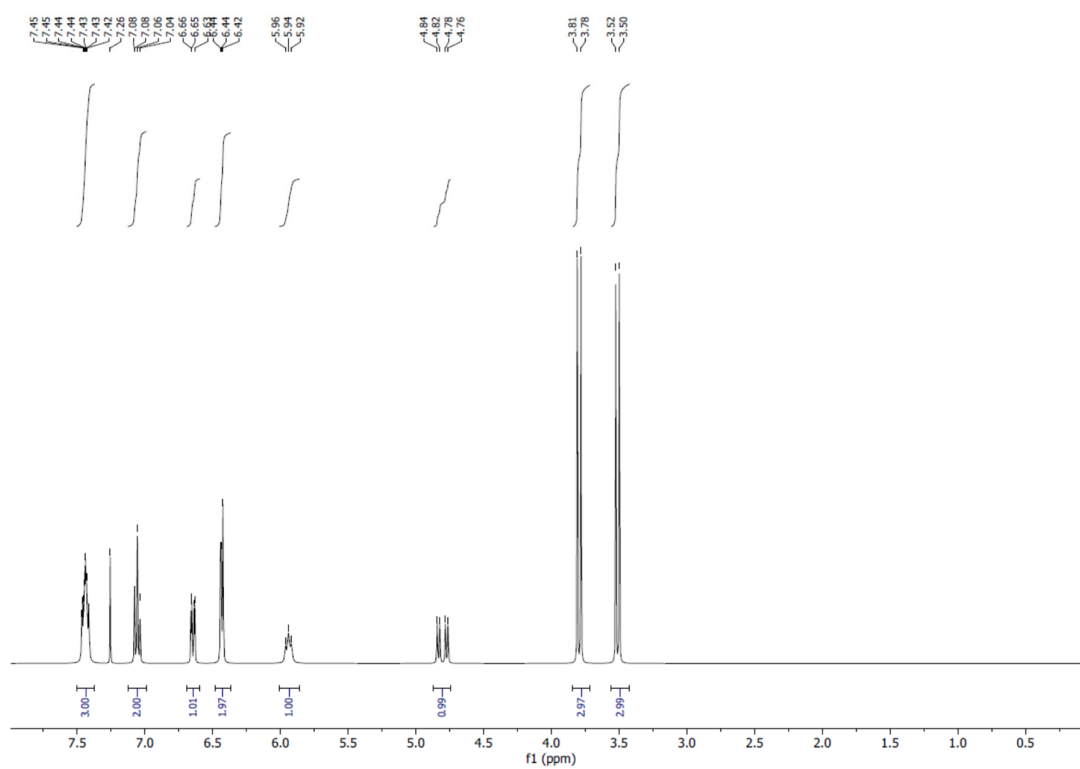


Figure S13. ¹H NMR (400 MHz, CDCl₃) of (4).

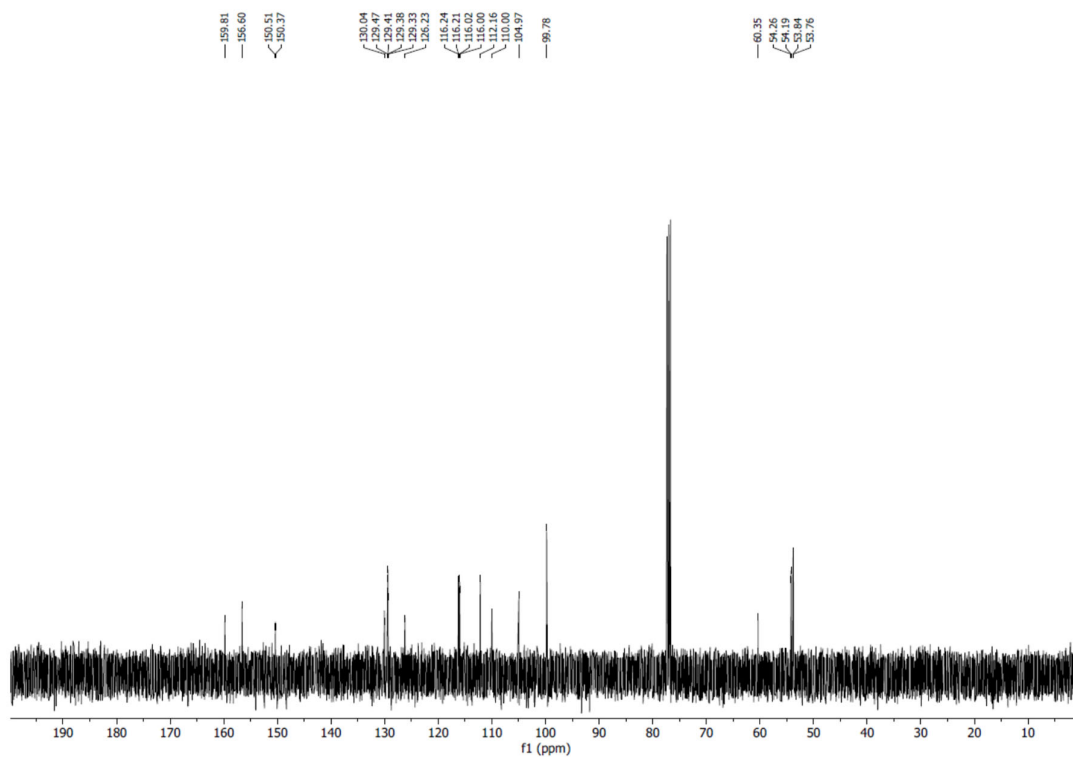


Figure S14. ^{13}C NMR (100 MHz, CDCl_3) of (4).

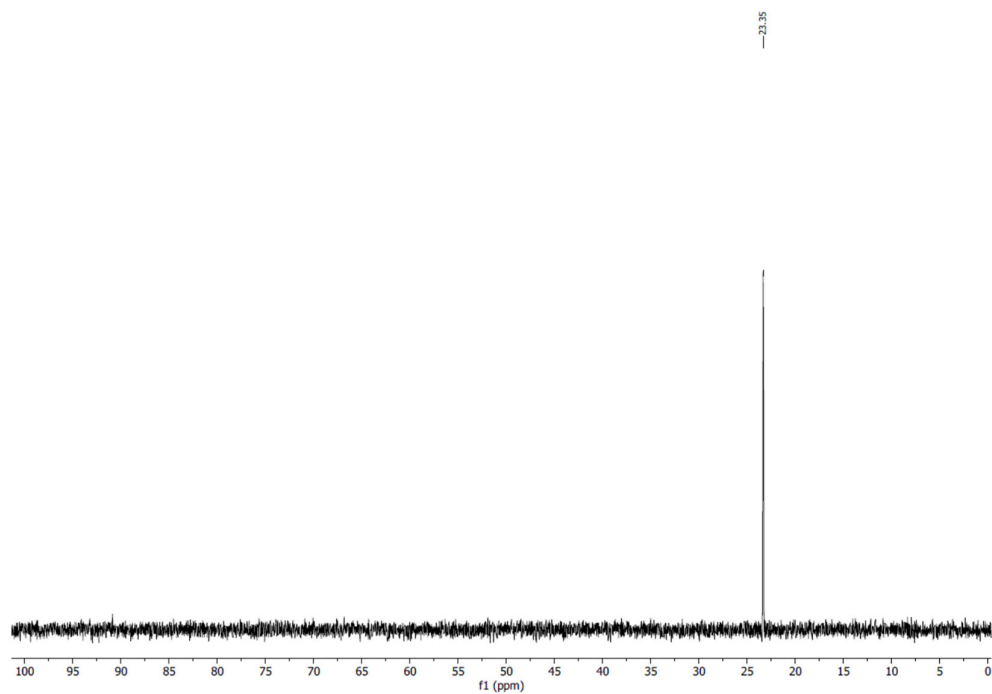


Figure S15. ^{31}P NMR (162 MHz, CDCl_3) of (4).

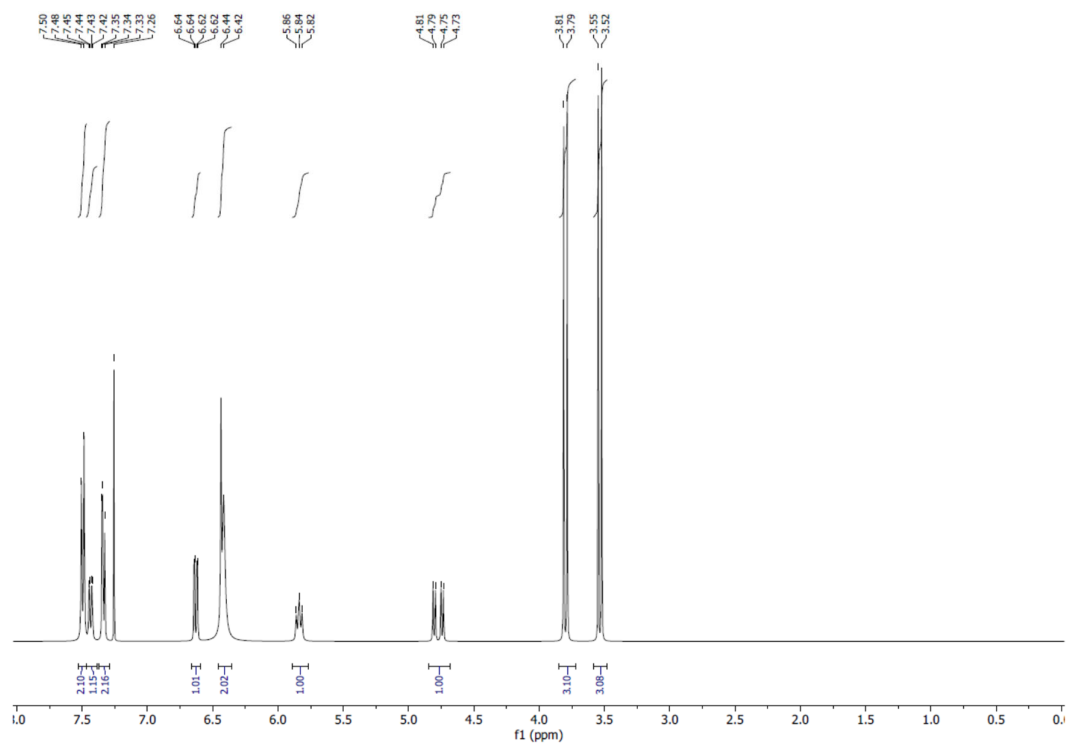


Figure S16. ¹H NMR (400 MHz, CDCl₃) of (5).

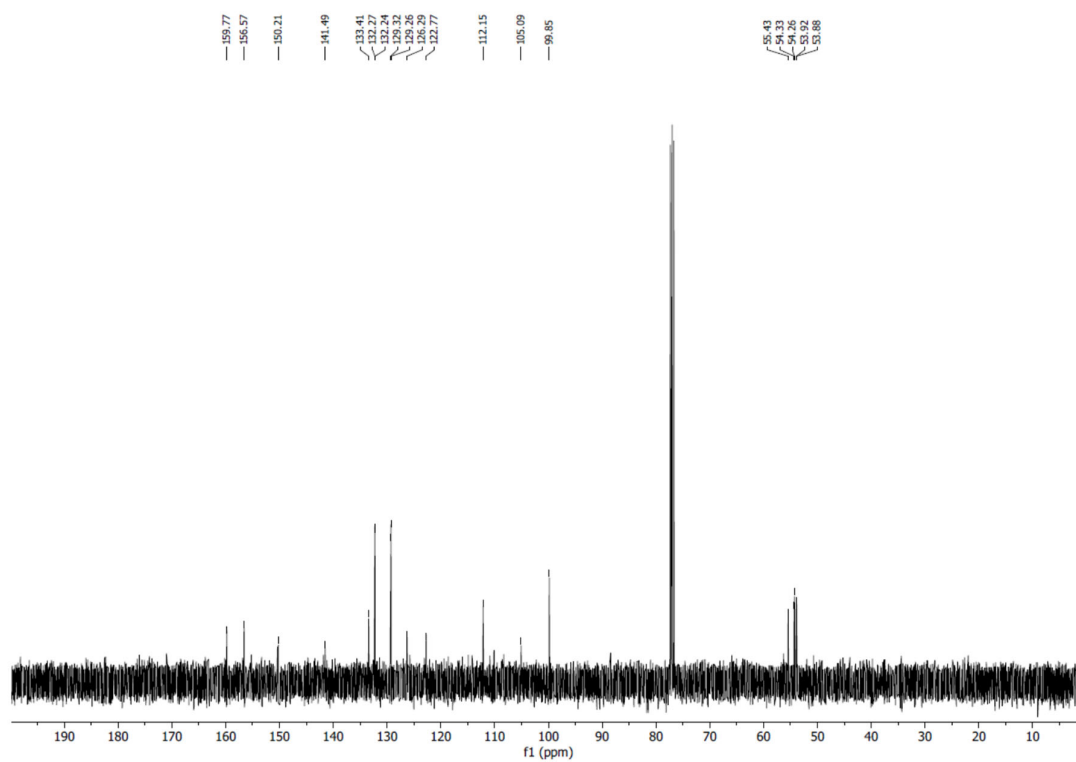


Figure S17. ¹³C NMR (100 MHz, CDCl₃) of (5).

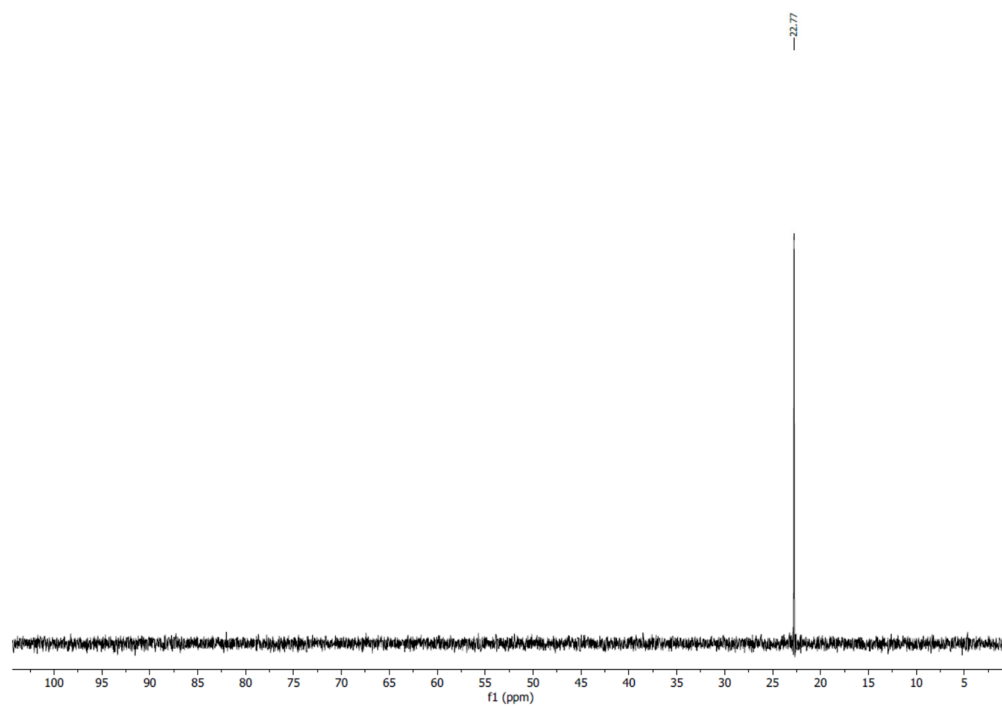


Figure S18. ³¹P NMR (162 MHz, CDCl₃) of (5).

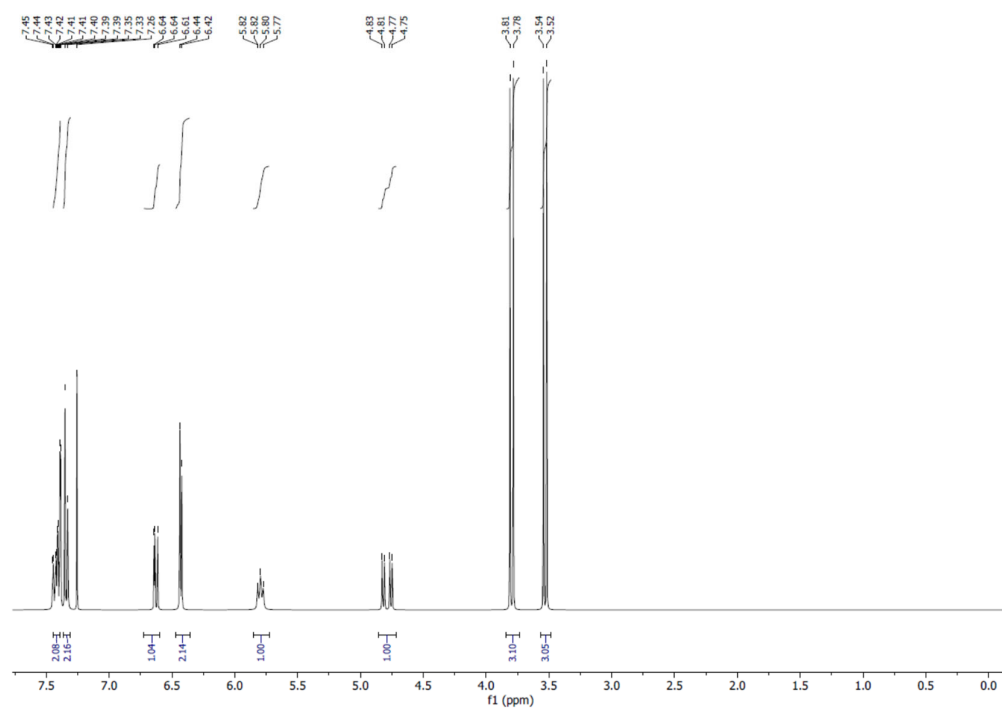


Figure S19. ¹H NMR (400 MHz, CDCl₃) of (6).

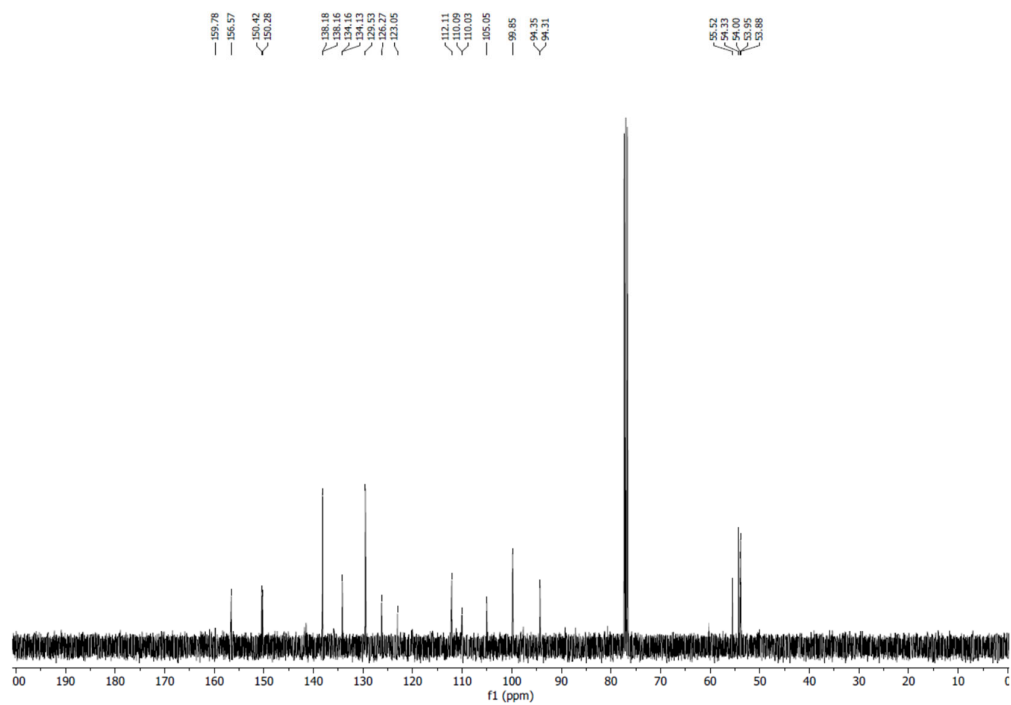


Figure S20. ^{13}C NMR (100 MHz, CDCl_3) of (6).

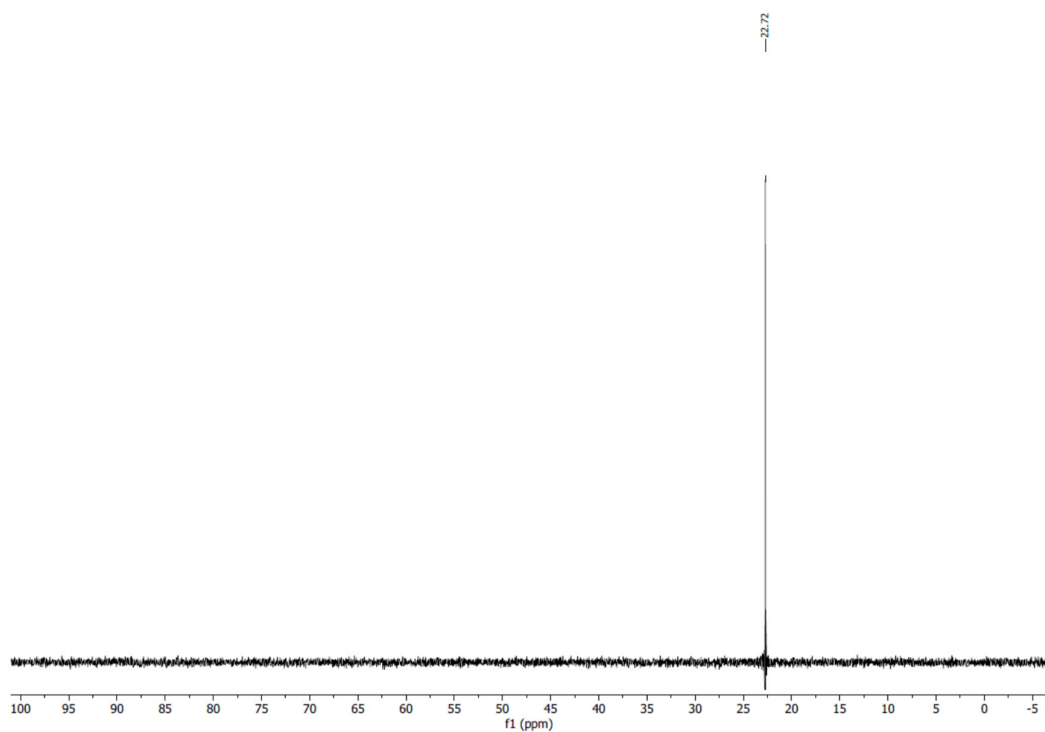


Figure S21. ^{31}P NMR (162 MHz, CDCl_3) of (6).

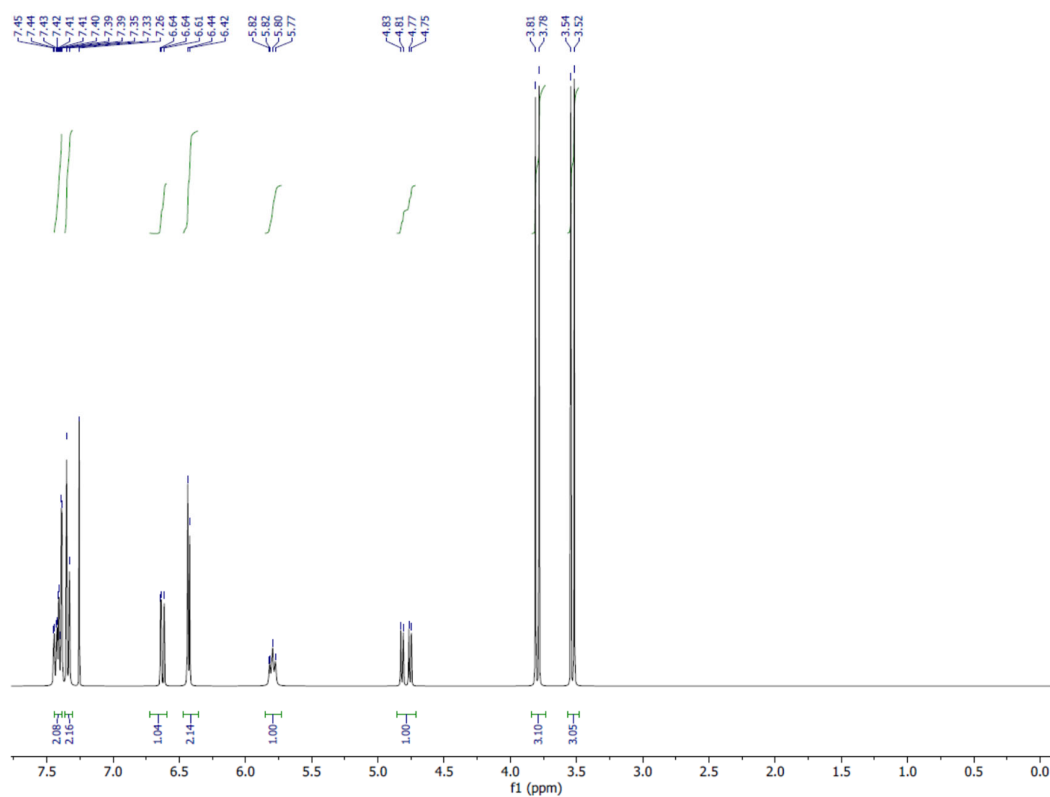


Figure S22. ^1H NMR (400 MHz, CDCl_3) of (7).

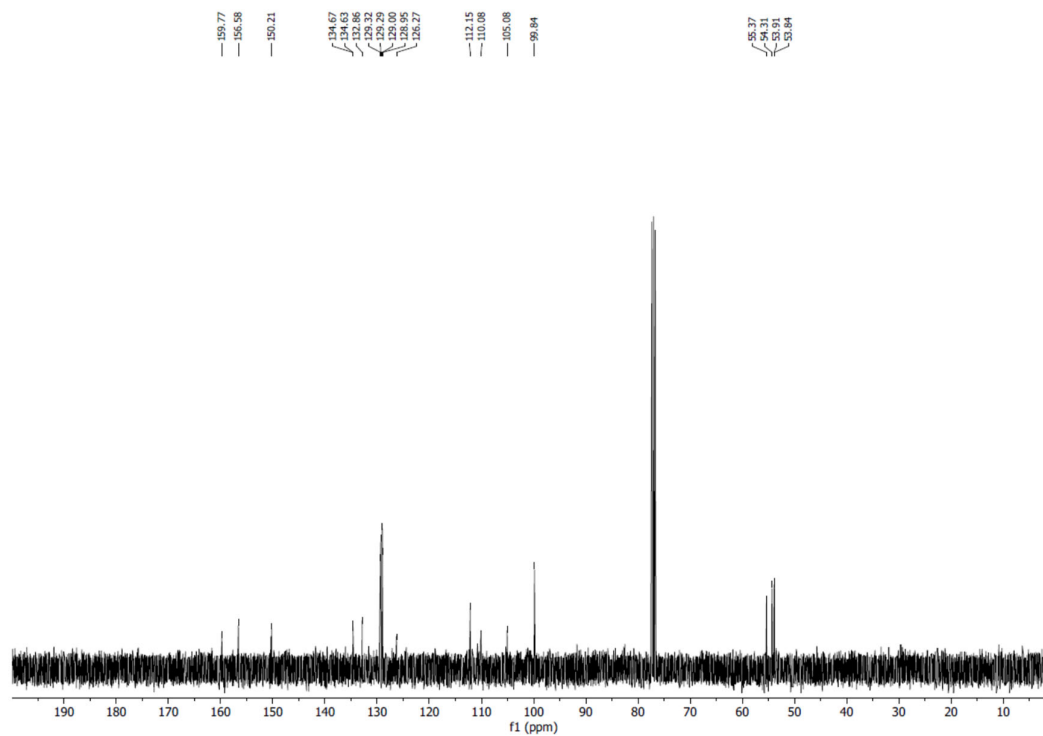


Figure S23. ^{13}C NMR (100 MHz, CDCl_3) of (7).

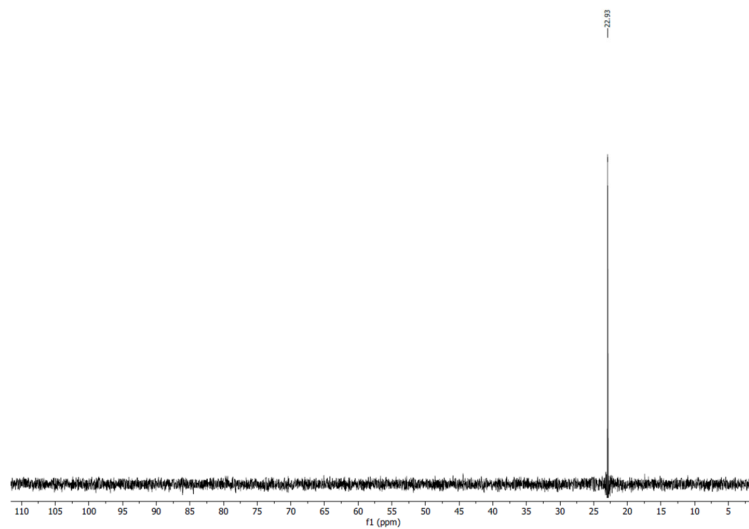


Figure S24. ^{31}P NMR (162 MHz, CDCl_3) of (7).

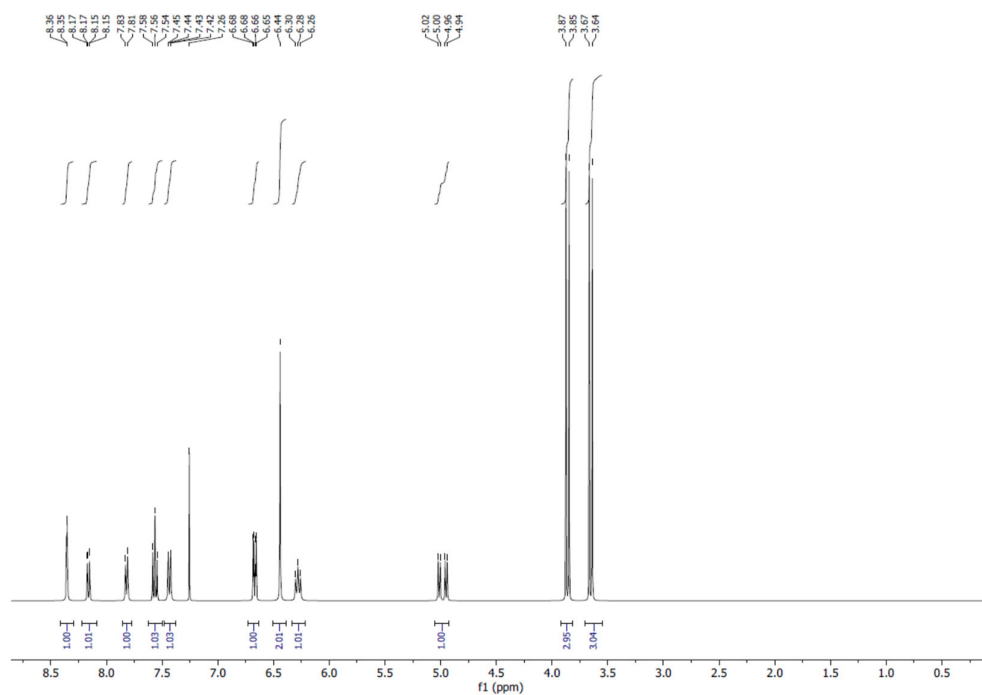


Figure S25. ^1H NMR (400 MHz, CDCl_3) of (8).

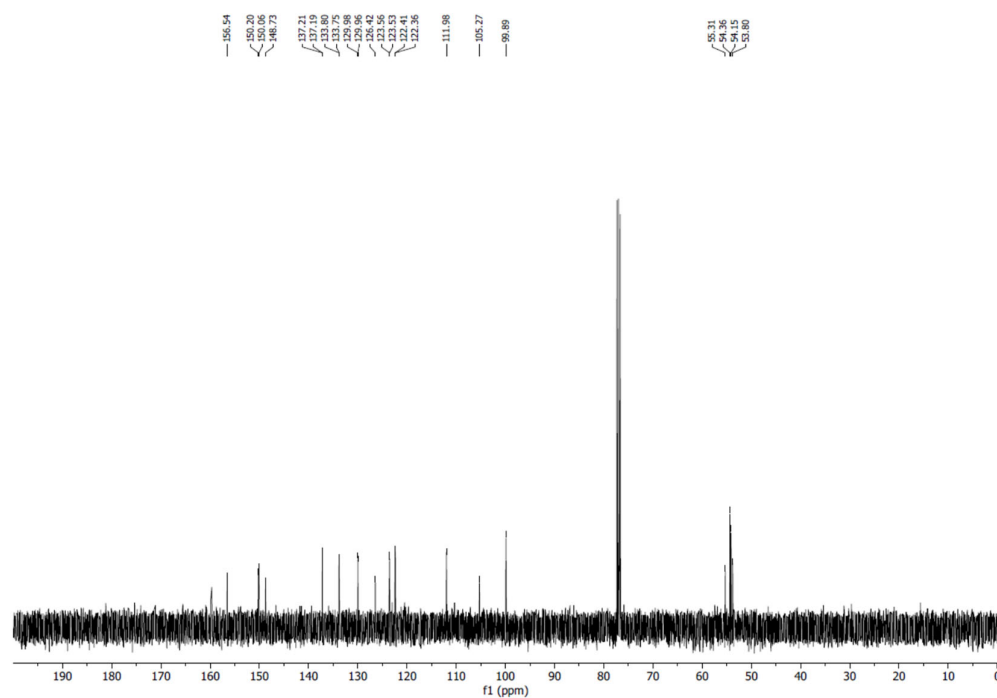


Figure S26. ^{13}C NMR (100 MHz, CDCl_3) of (8).

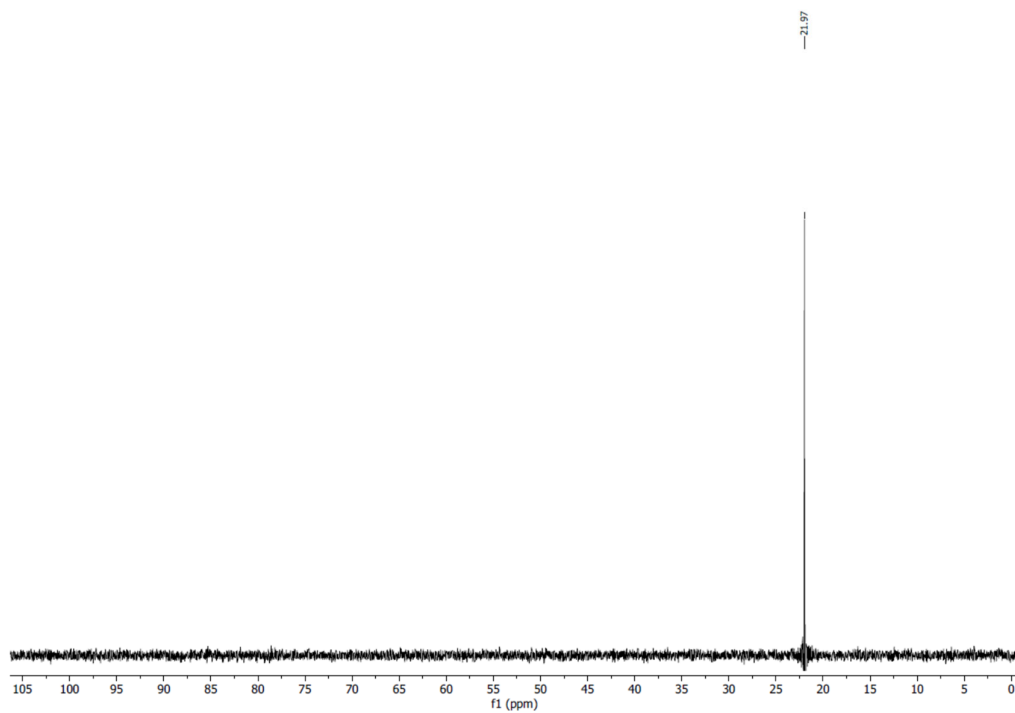


Figure S27. ^{31}P NMR (162 MHz, CDCl_3) of (8).

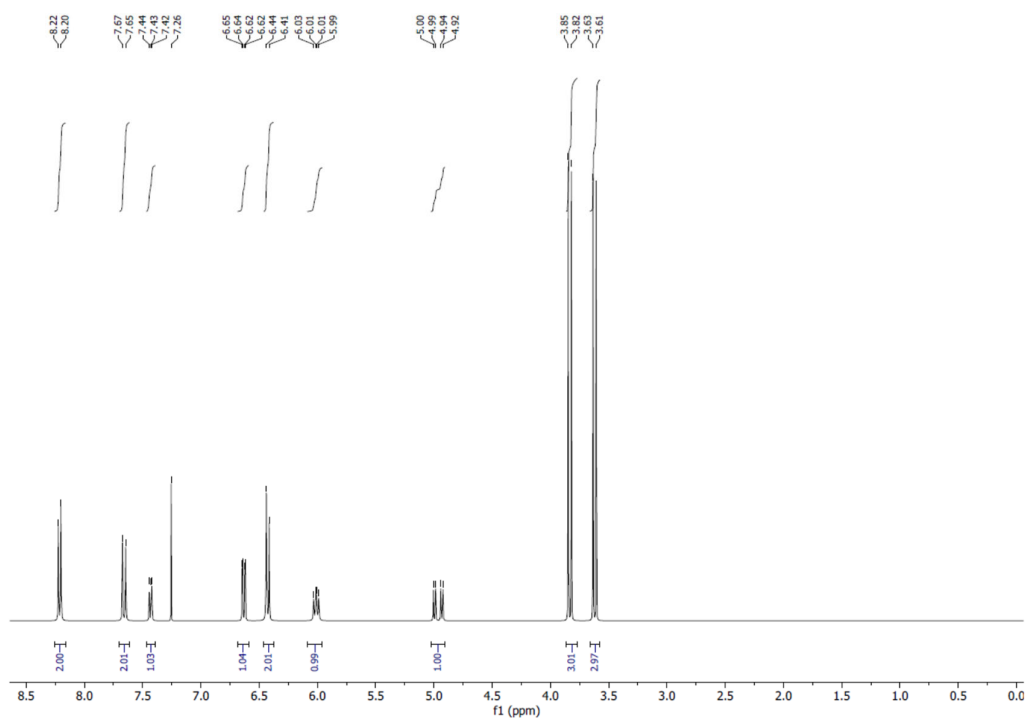


Figure S28. ¹H NMR (400 MHz, CDCl₃) of (9).

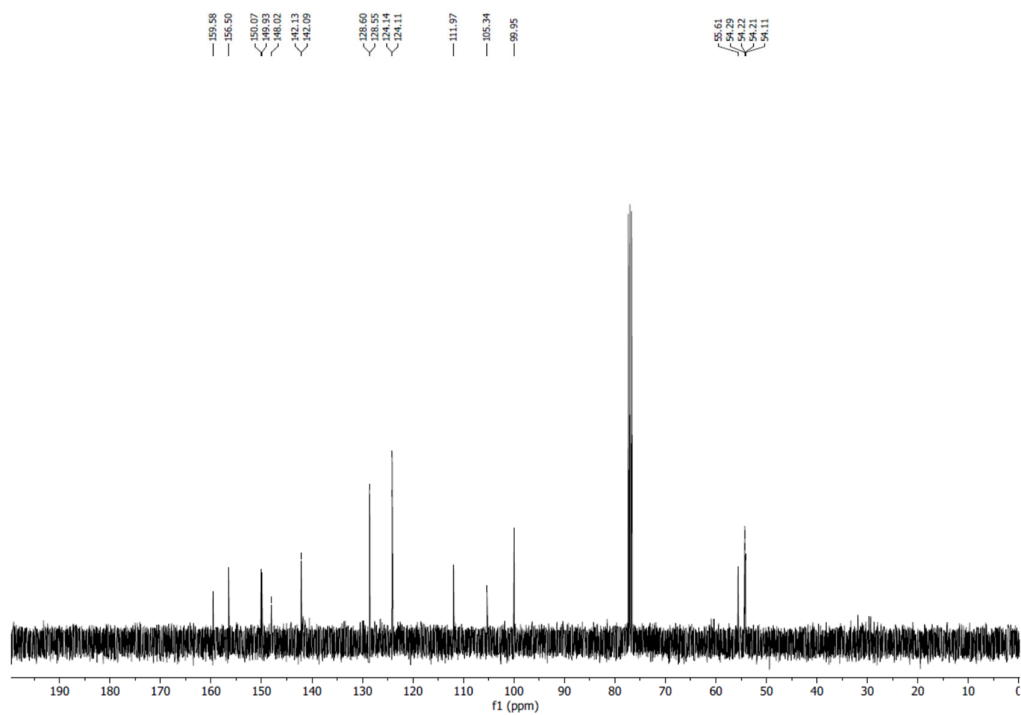


Figure S29. ¹³C NMR (100 MHz, CDCl₃) of (9).

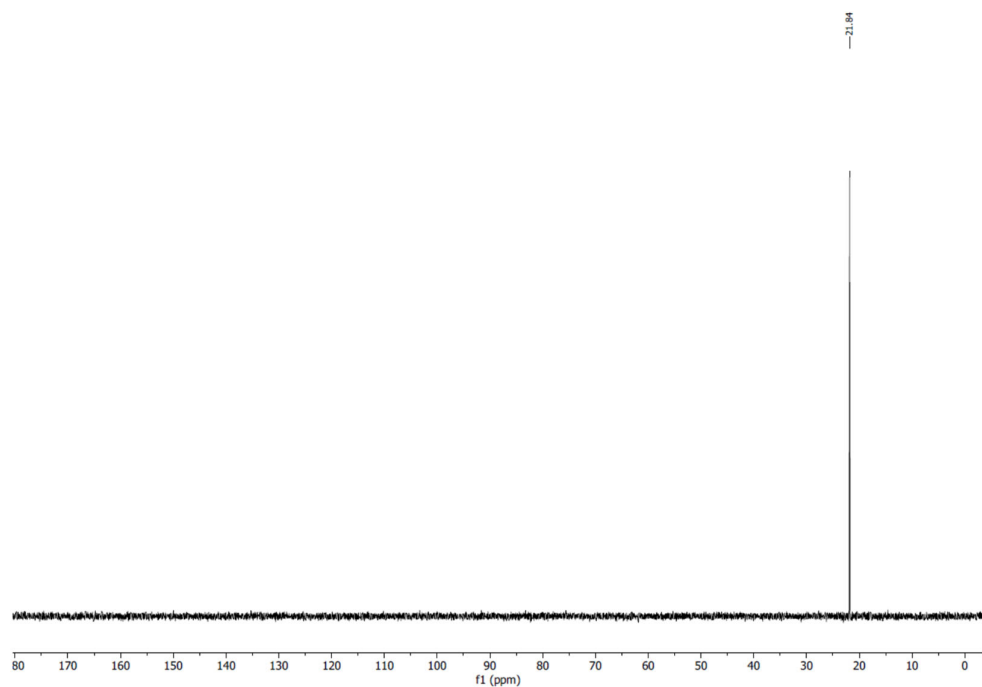


Figure S30. ³¹P NMR (162 MHz, CDCl₃) of (9).

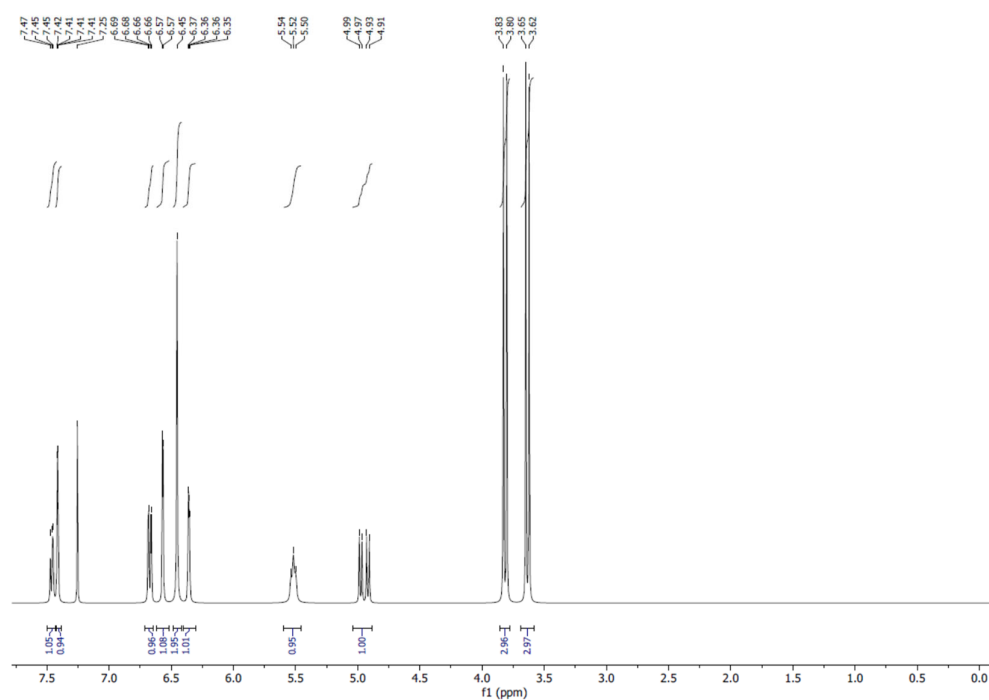


Figure S31. ¹H NMR (400 MHz, CDCl₃) of (10).

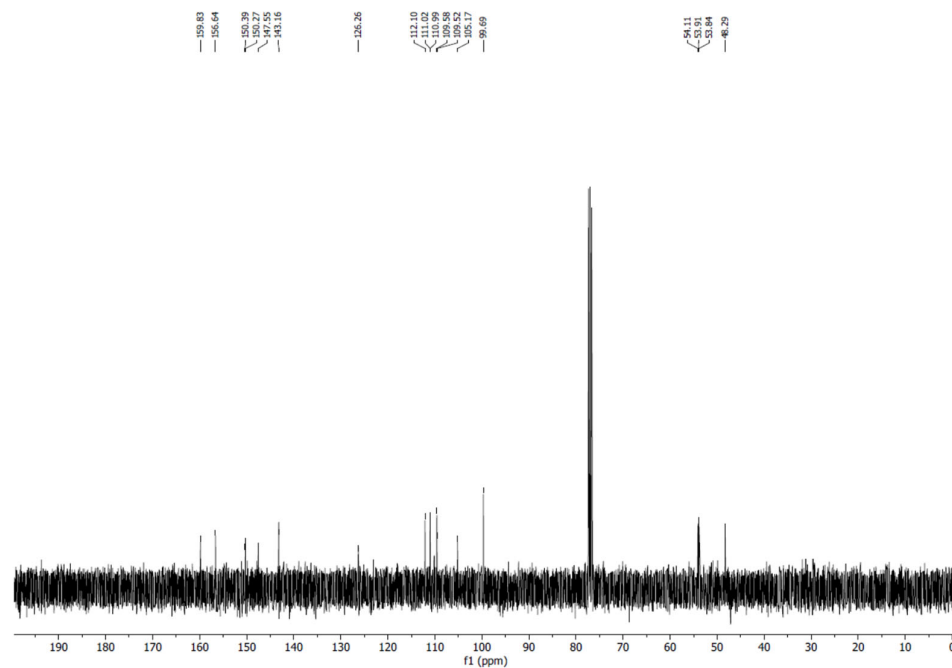


Figure S32. ^{13}C NMR (100 MHz, CDCl_3) of (10).

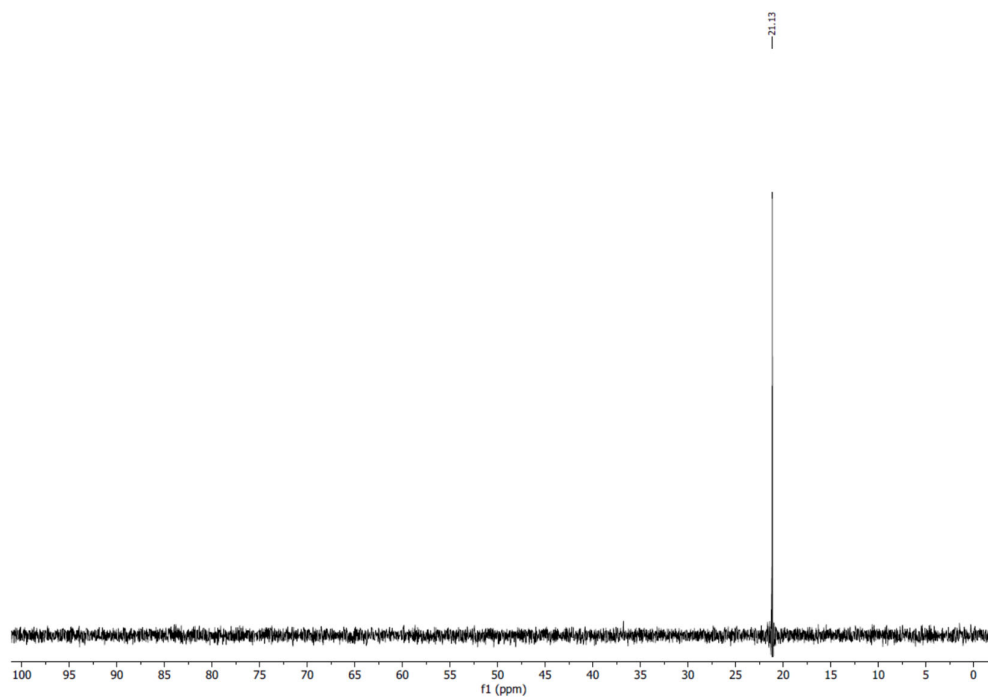


Figure S33. ^{31}P NMR (162 MHz, CDCl_3) of (10).

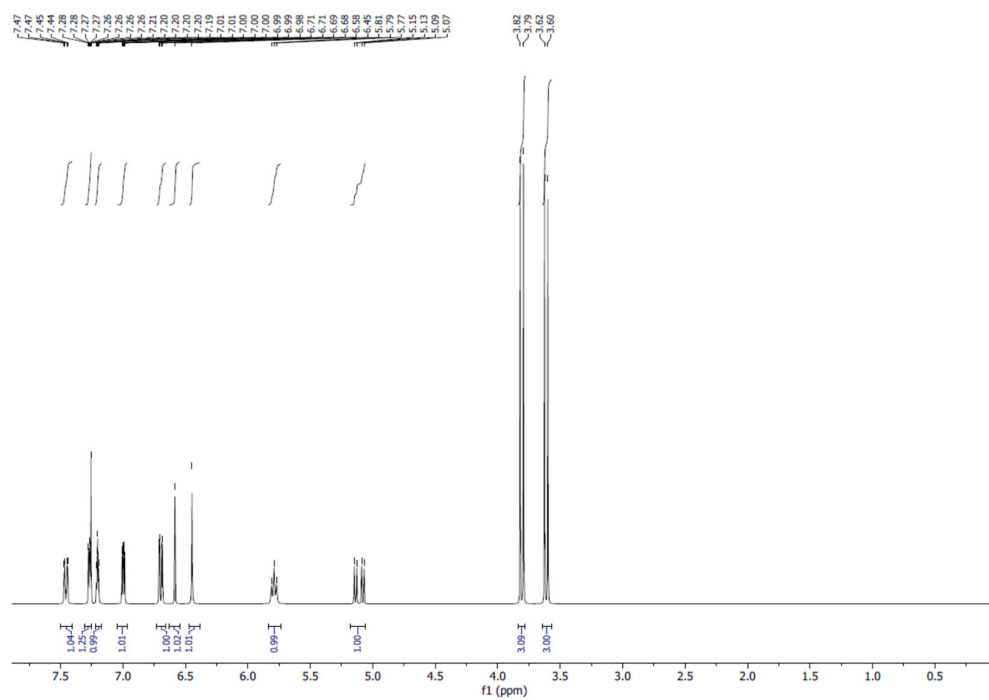


Figure S34. ¹H NMR (400 MHz, CDCl₃) of (11).

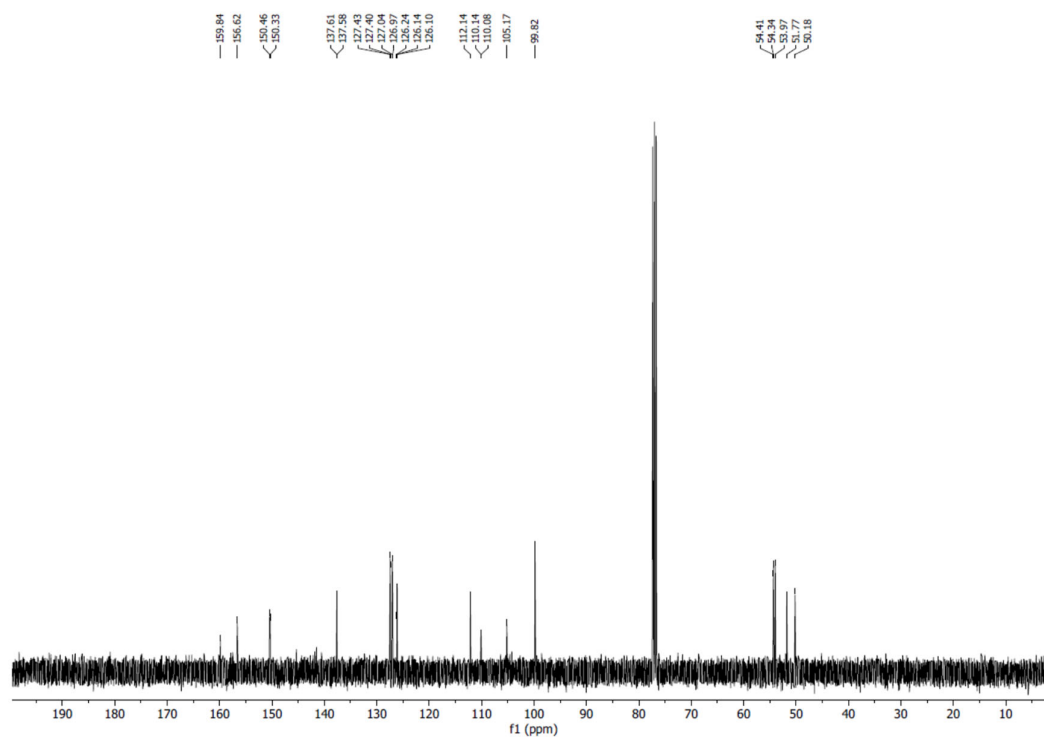


Figure S35. ¹³C NMR (100 MHz, CDCl₃) of (11).

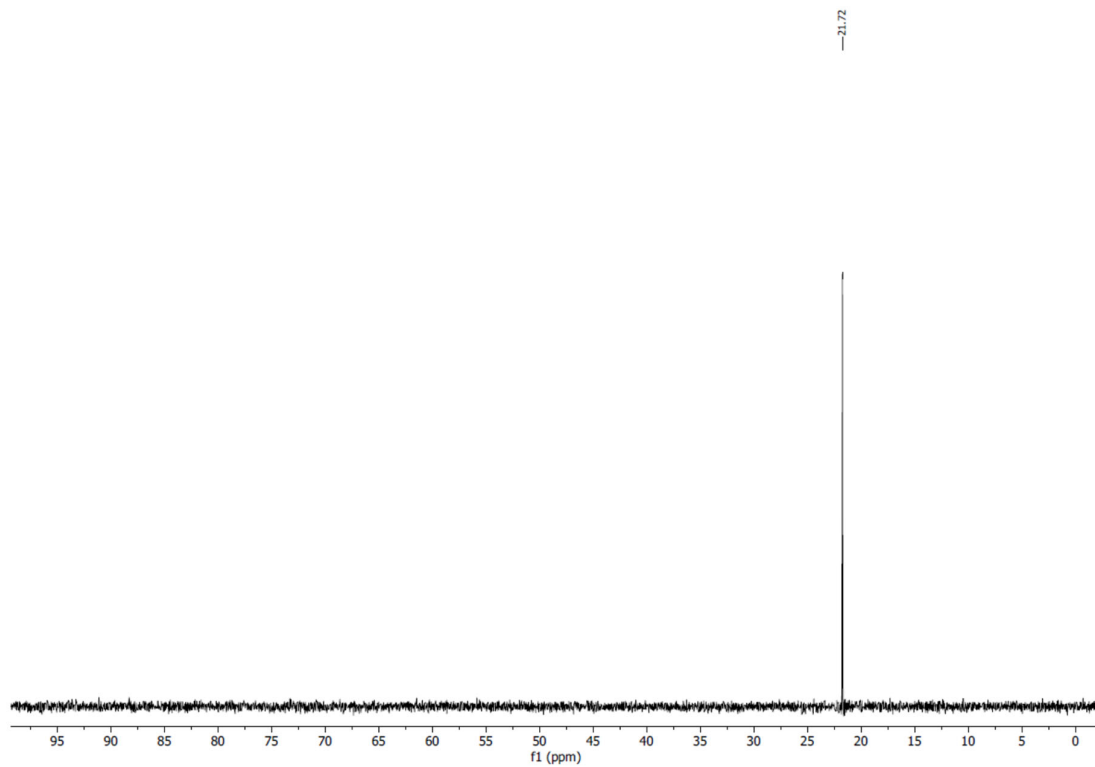


Figure S36. ³¹P NMR (162 MHz, CDCl₃) of (11).

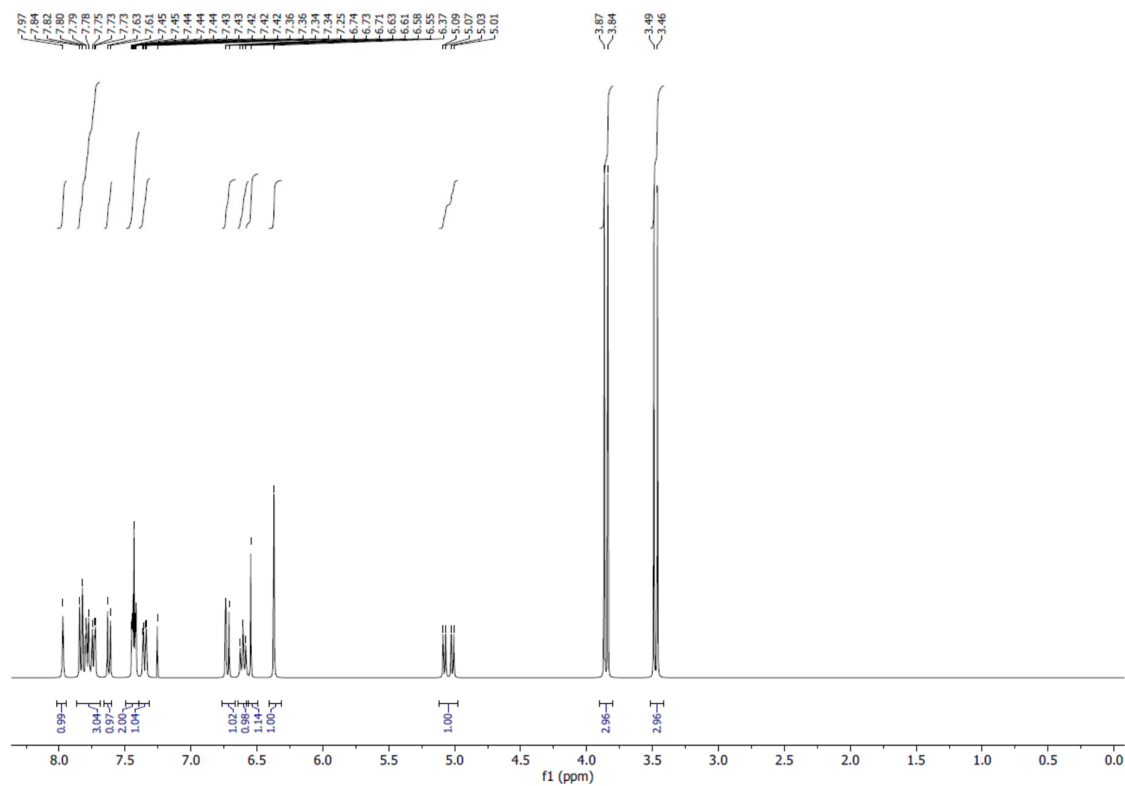


Figure S37. ¹H NMR (400 MHz, CDCl₃) of (12).

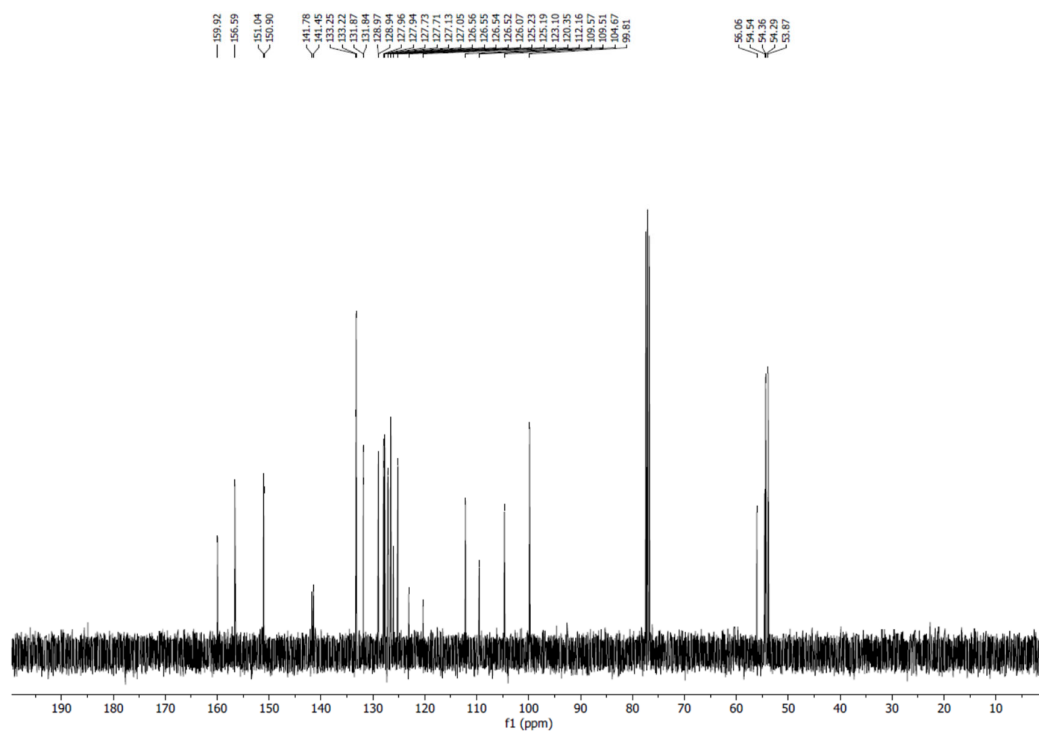


Figure S38. ^{13}C NMR (100 MHz, CDCl_3) of (12).

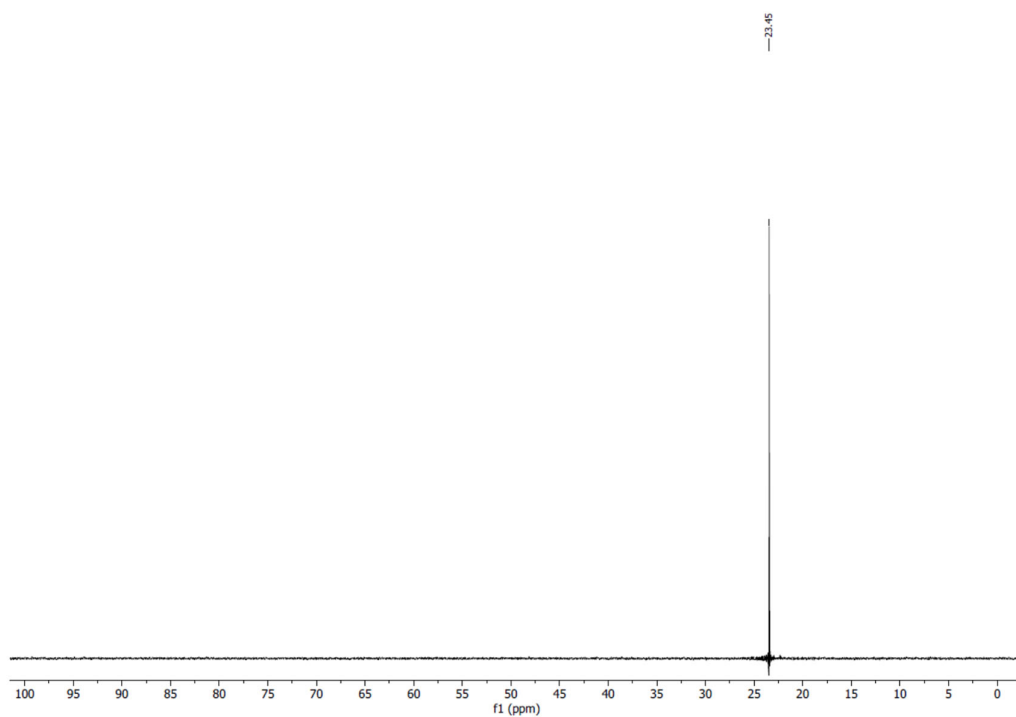


Figure S39. ^{31}P NMR (162 MHz, CDCl_3) of (12).

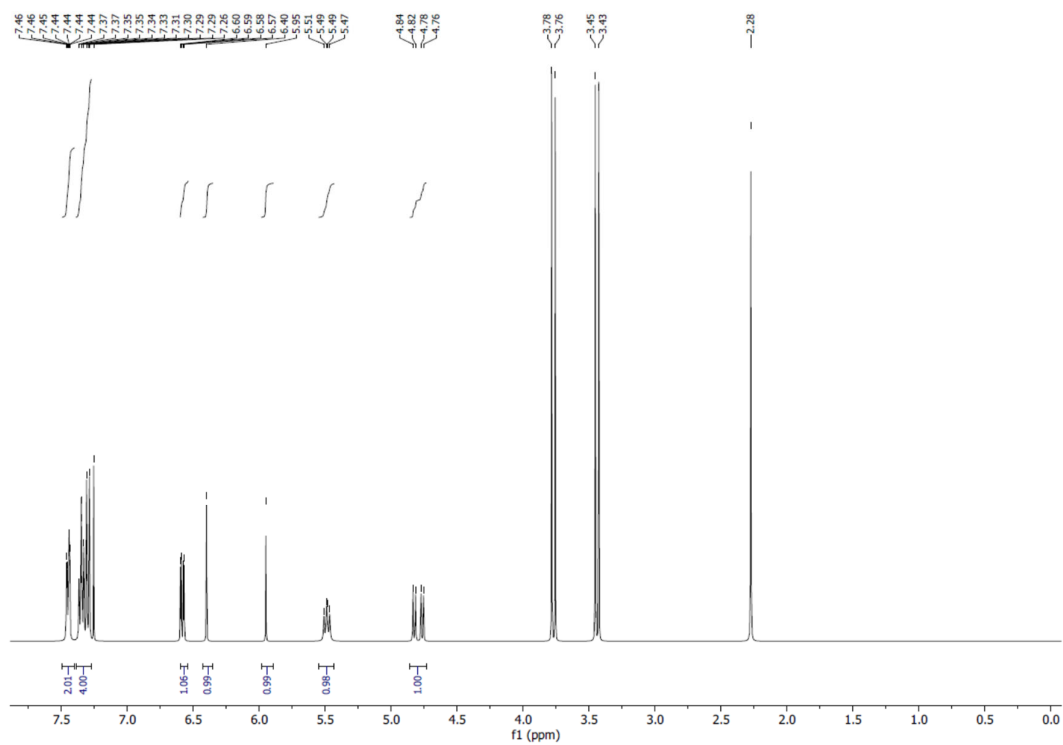


Figure S40. ¹H NMR (400 MHz, CDCl₃) of (13).

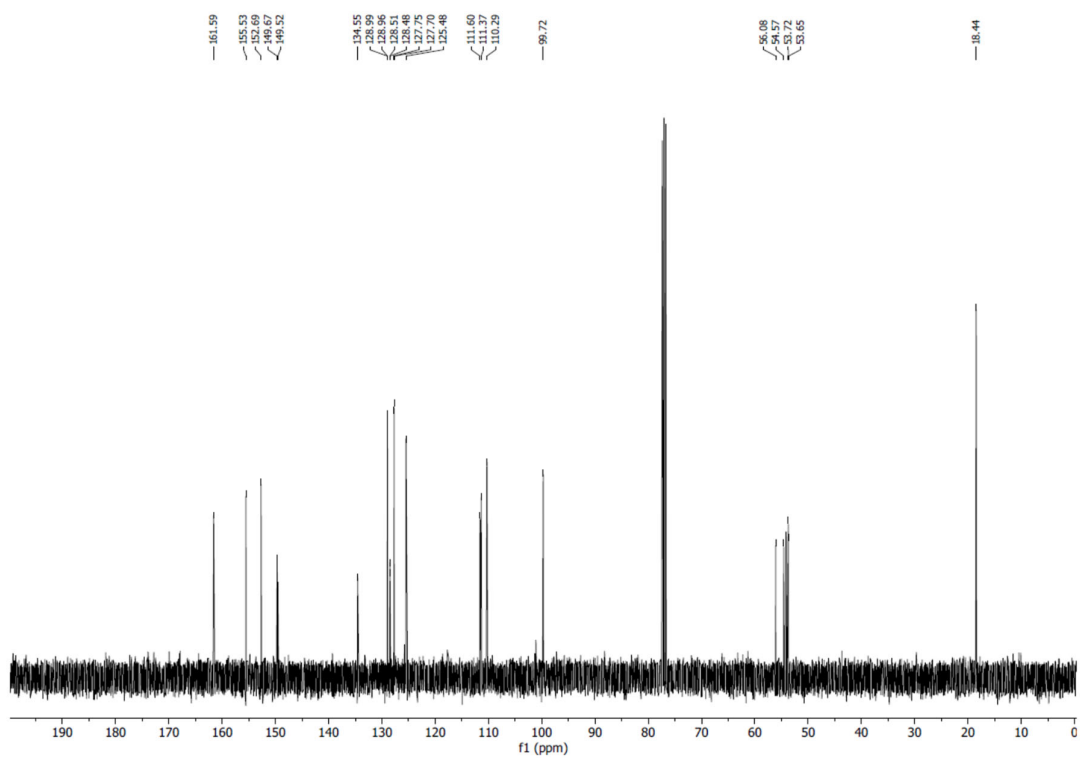


Figure S41. ¹³C NMR (100 MHz, CDCl₃) of (13).

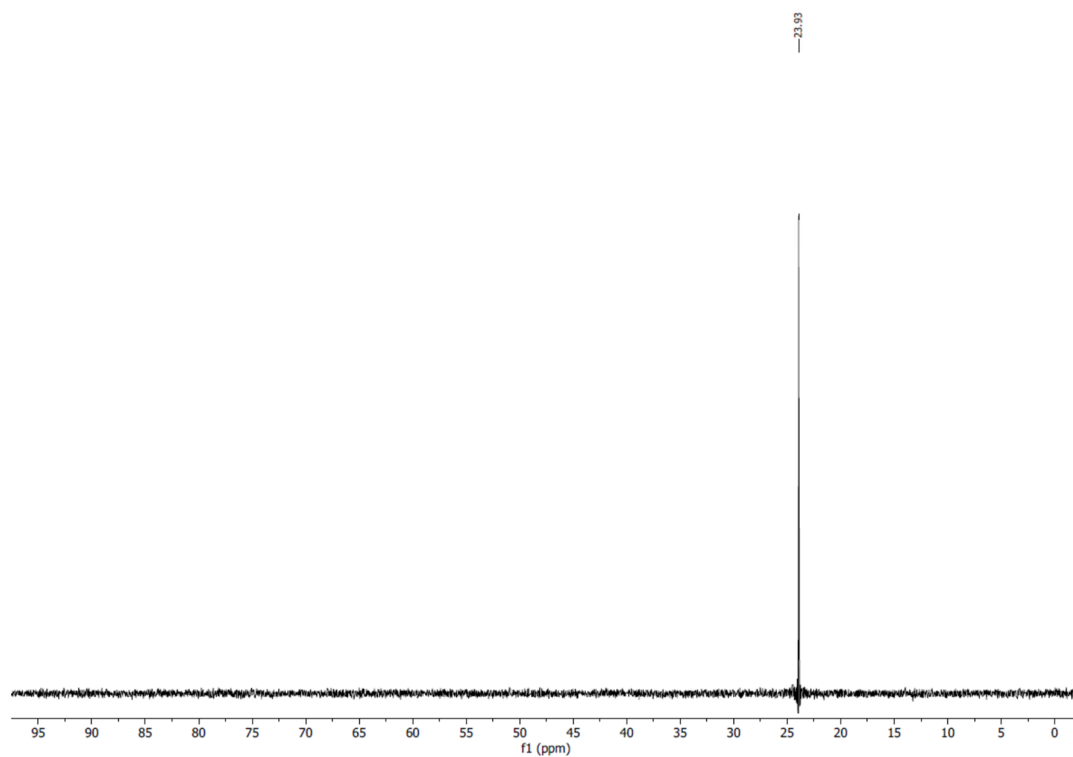


Figure S42. ^{31}P NMR (162 MHz, CDCl_3) of (**13**).

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