

Supporting Information

Dinuclear copper(I) complexes containing pyridyl-appended diazadiphosphetidines and aminobis(diphosphonite) ligands: synthesis, structural studies and antiproliferative activity towards human cervical, human colon carcinoma and breast cancer cells

Aijaz Rashid^{b‡}, Guddekoppa S. Ananthnag^{a‡}, Susmita Naik^a, Joel T. Mague^c, Dulal Panda^{b*} and Maravanji S. Balakrishna^{a*}

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1. **Figure S1.** Compound **12** mediated apoptosis through p53 and p21 mediated pathway
2. **Figure S2-S12.** $^{31}\text{P}\{^1\text{H}\}$ NMR spectra of compounds **1-12**

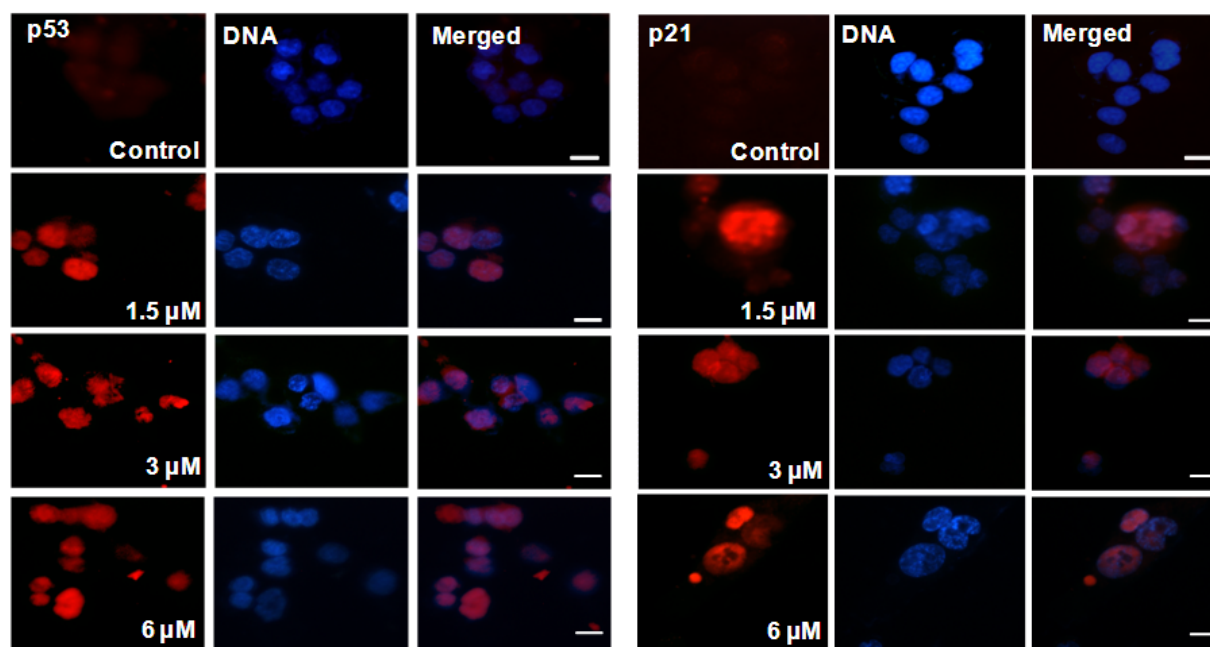


Figure S1. Compound **12** mediated apoptosis through p53 and p21 mediated pathway. There is prominent nuclear translocation of p53 and its downstream protein p21.

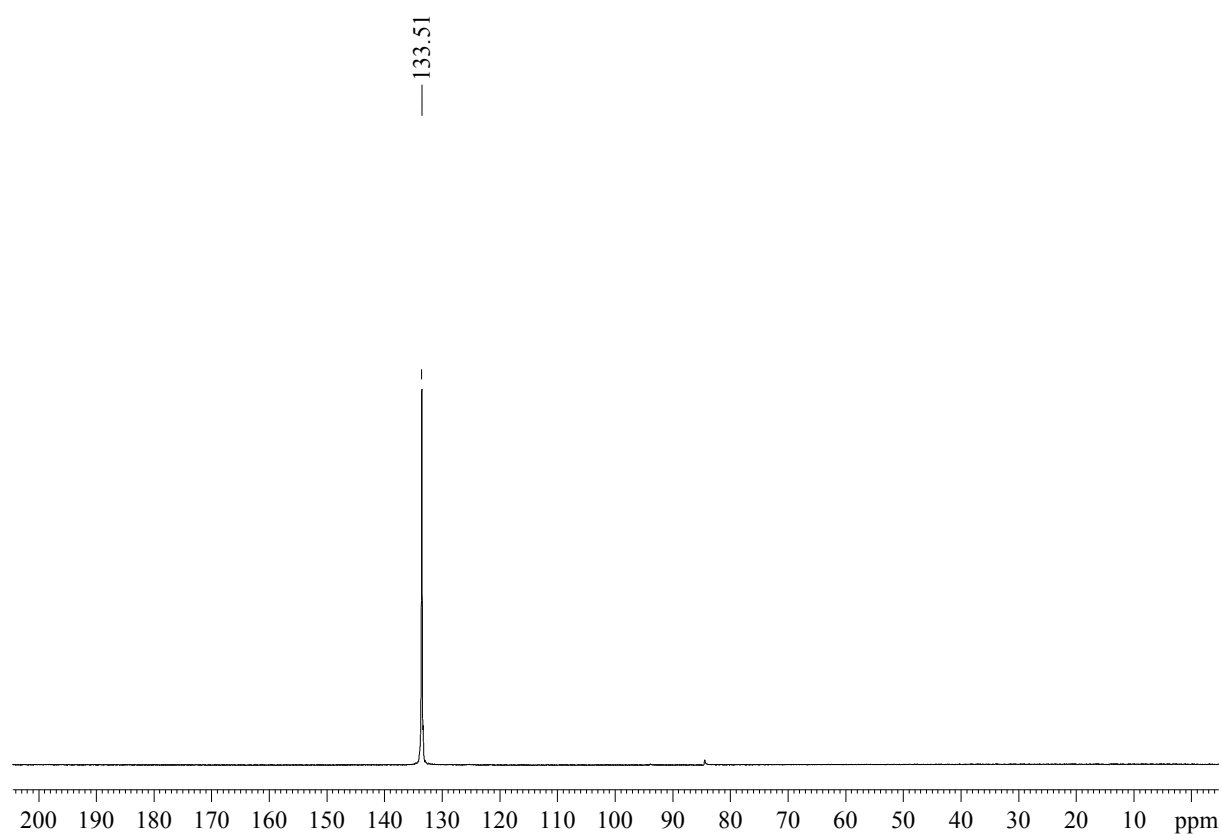


Figure S2. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **1**

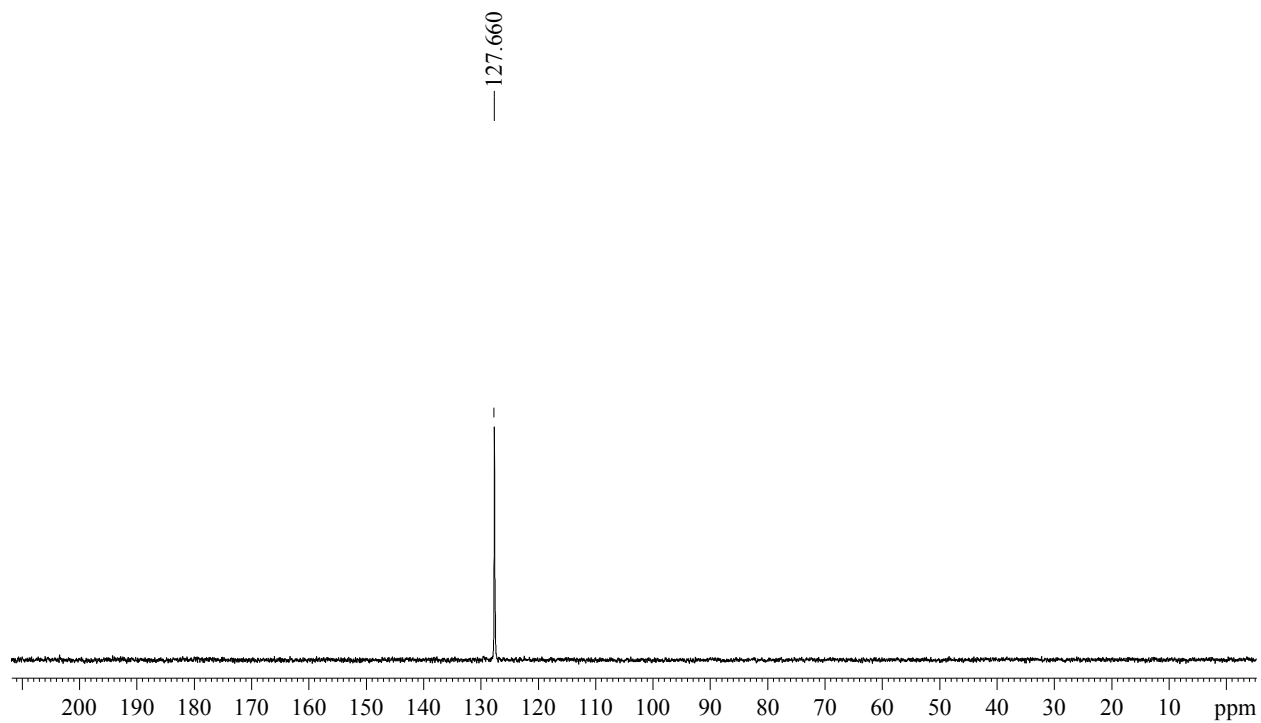


Figure S3. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **2**

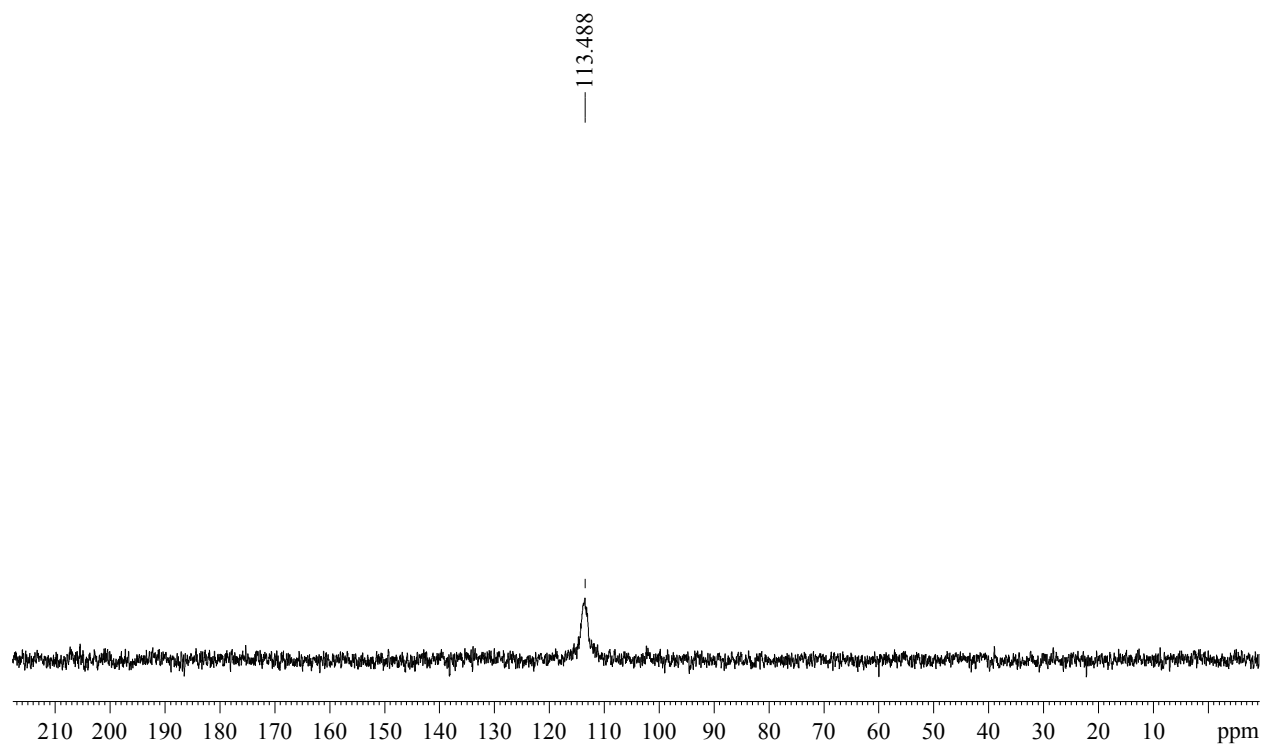


Figure S4. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **3**

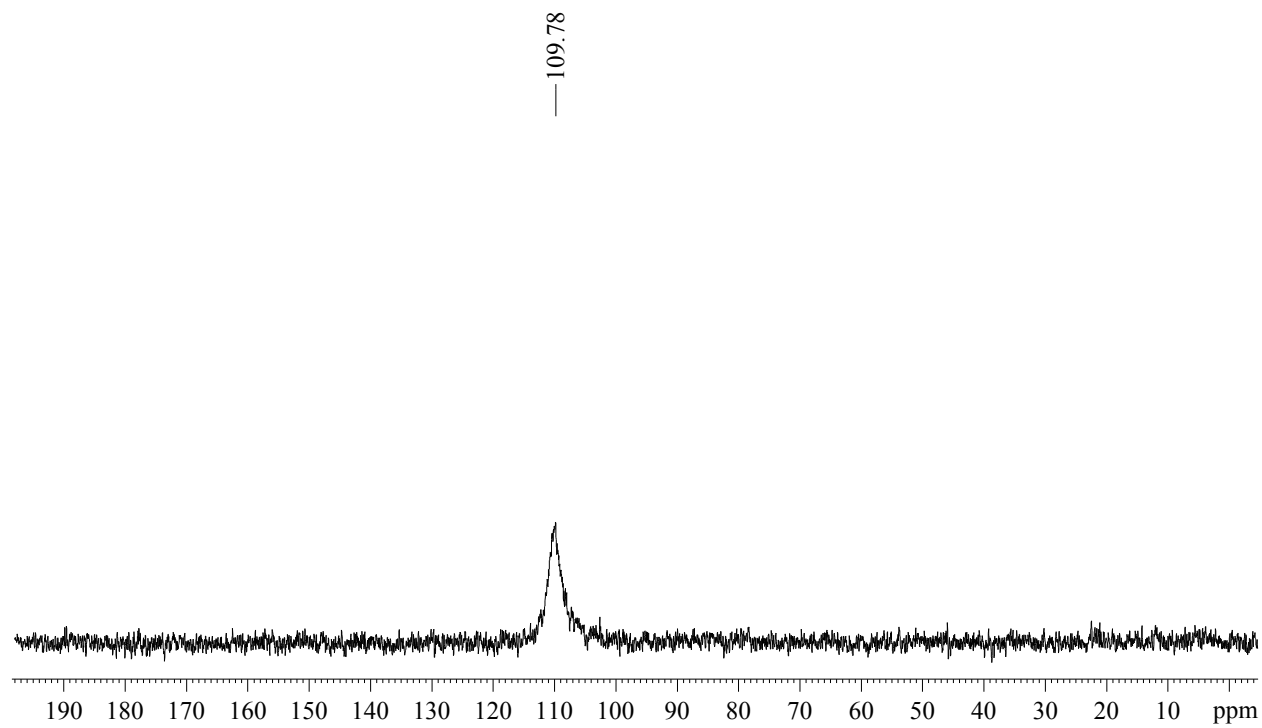


Figure S5. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **4**

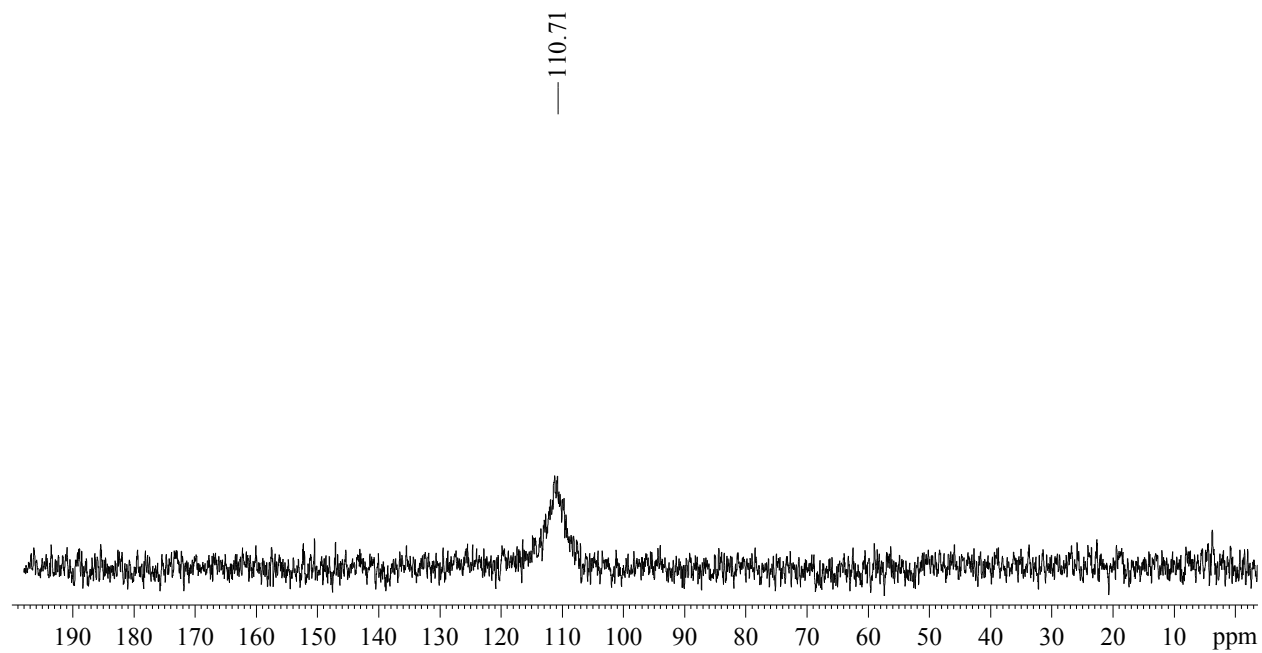


Figure S6. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **5**

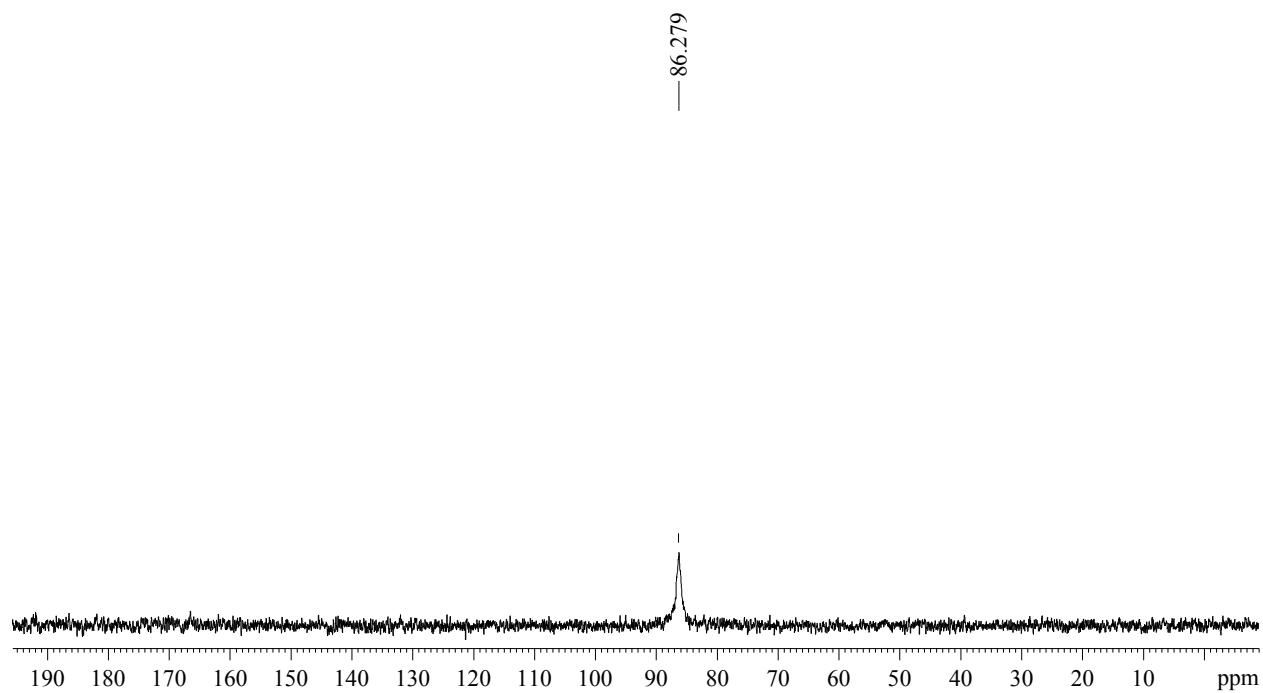


Figure S7. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **6**

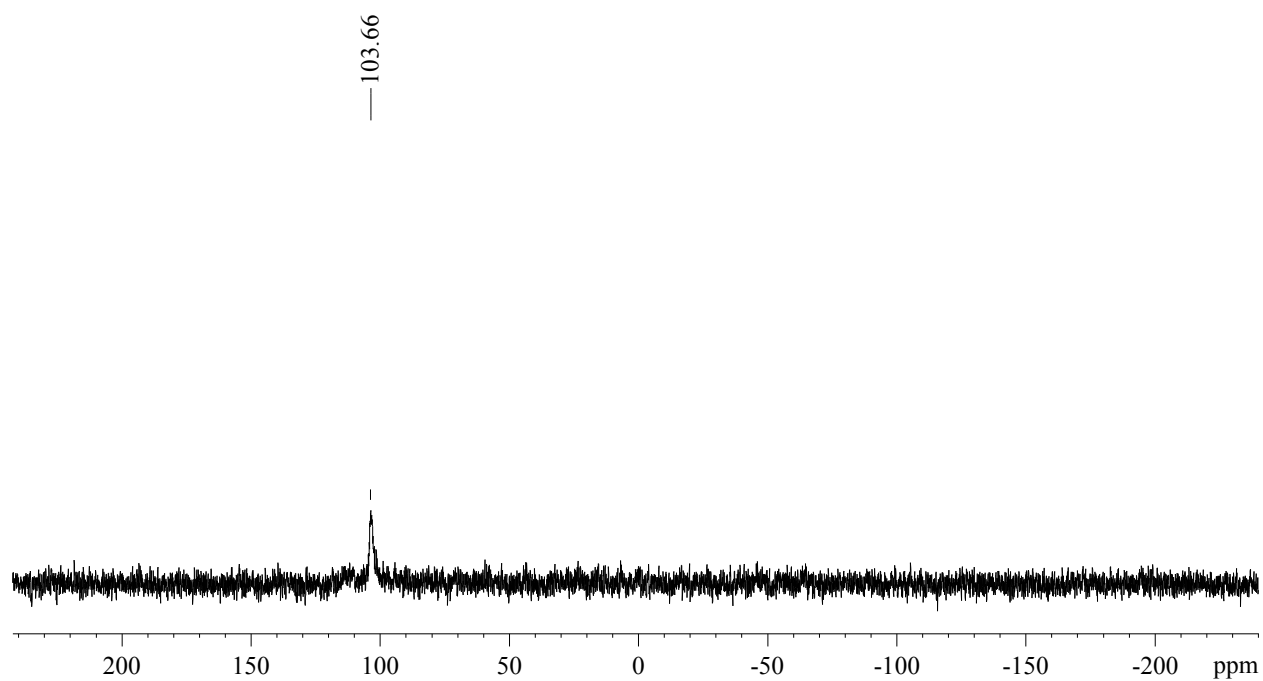


Figure S8. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **8**

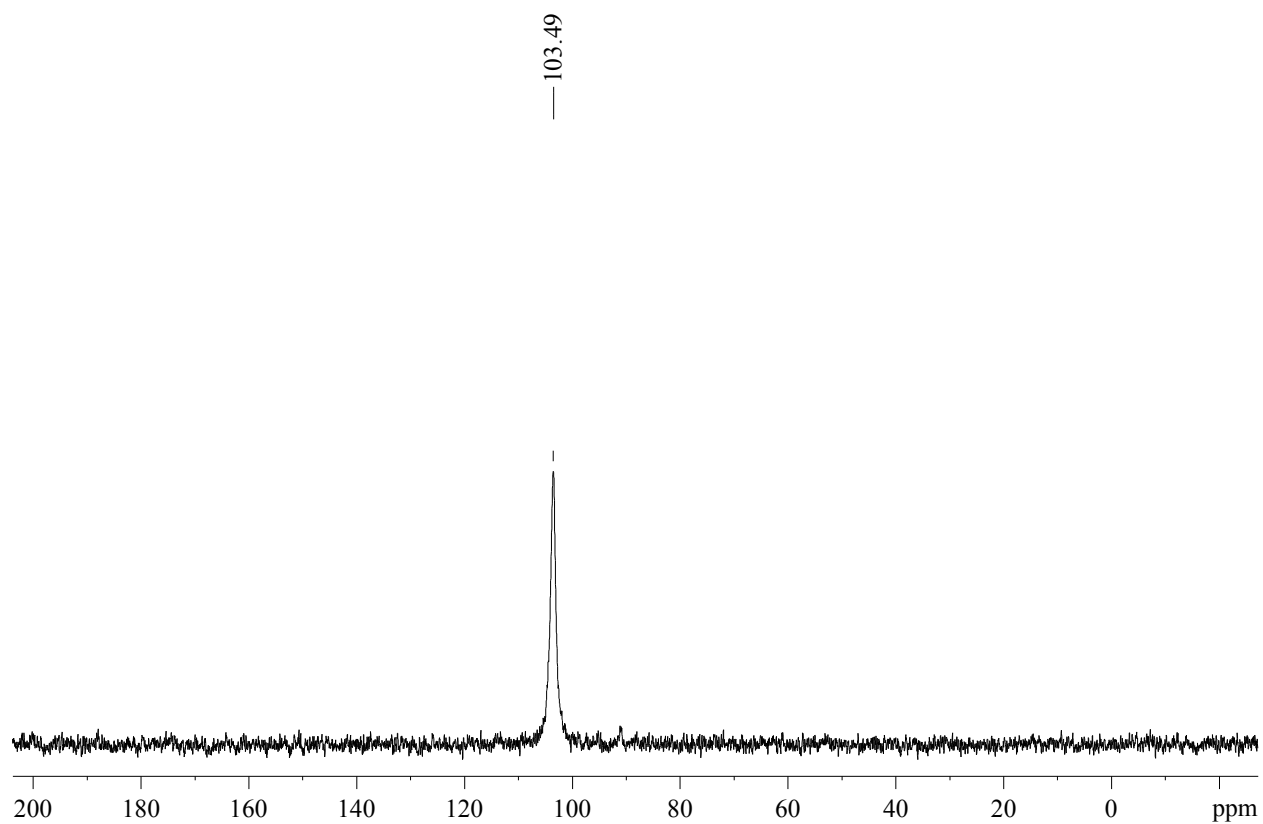


Figure S9. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **9**

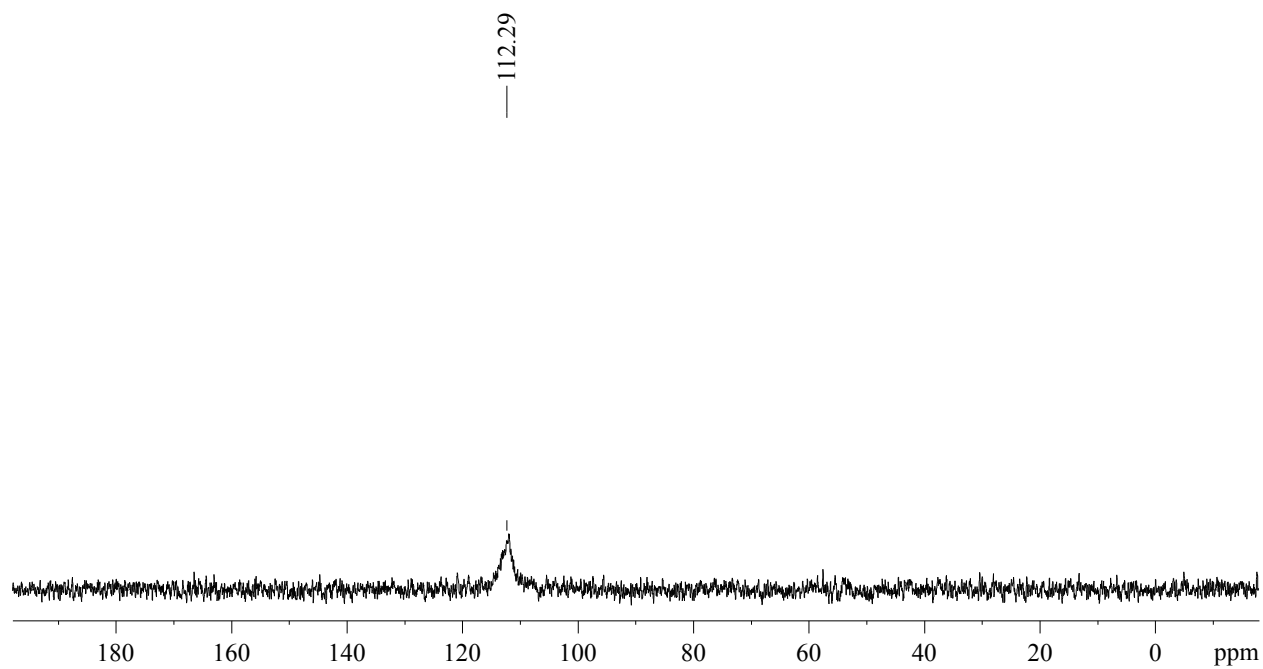


Figure S10. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **10**

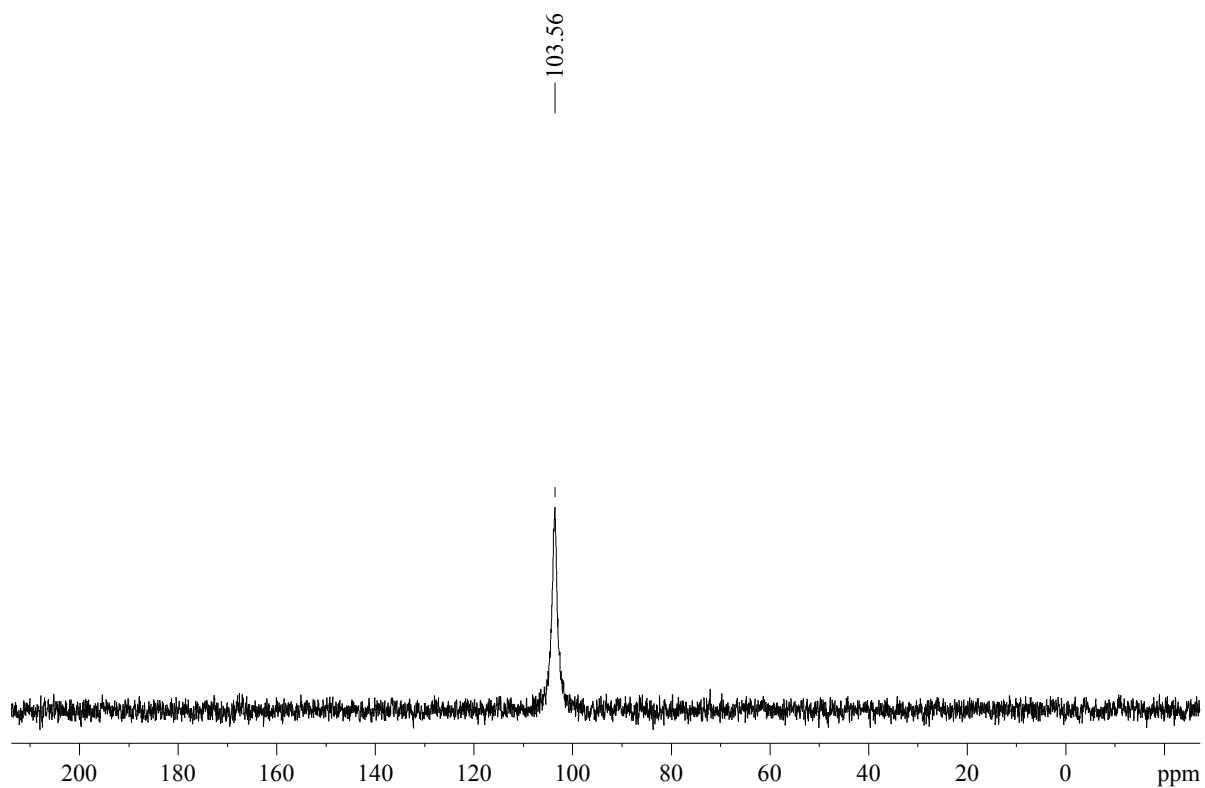


Figure S11. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **11**

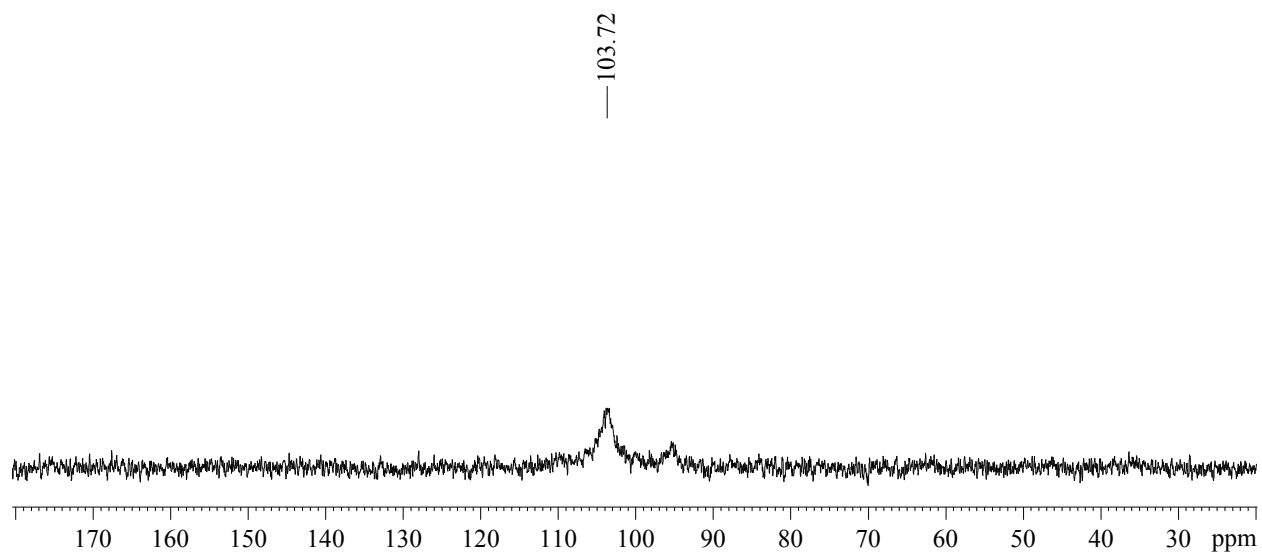


Figure S12. $^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **12**