

Supporting information

Novel Zinc (II) complexes of heterocyclic ligands as antimicrobial agents: Synthesis, characterisation and antimicrobial studies

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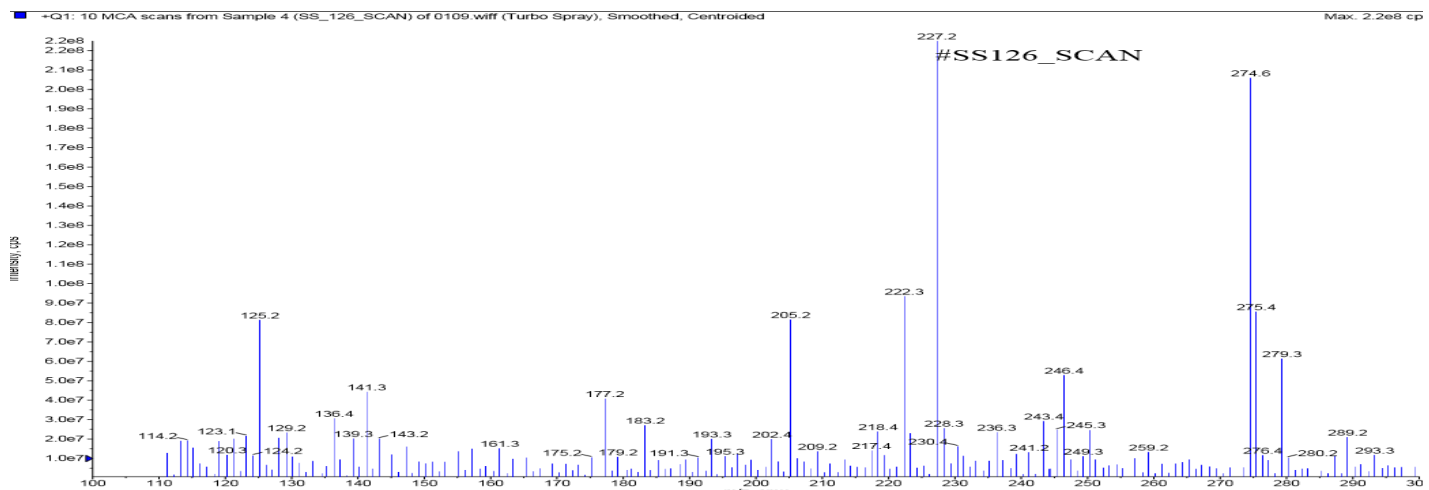


Figure S1 MS Spectrum of NMAPIMHMC Schiff base

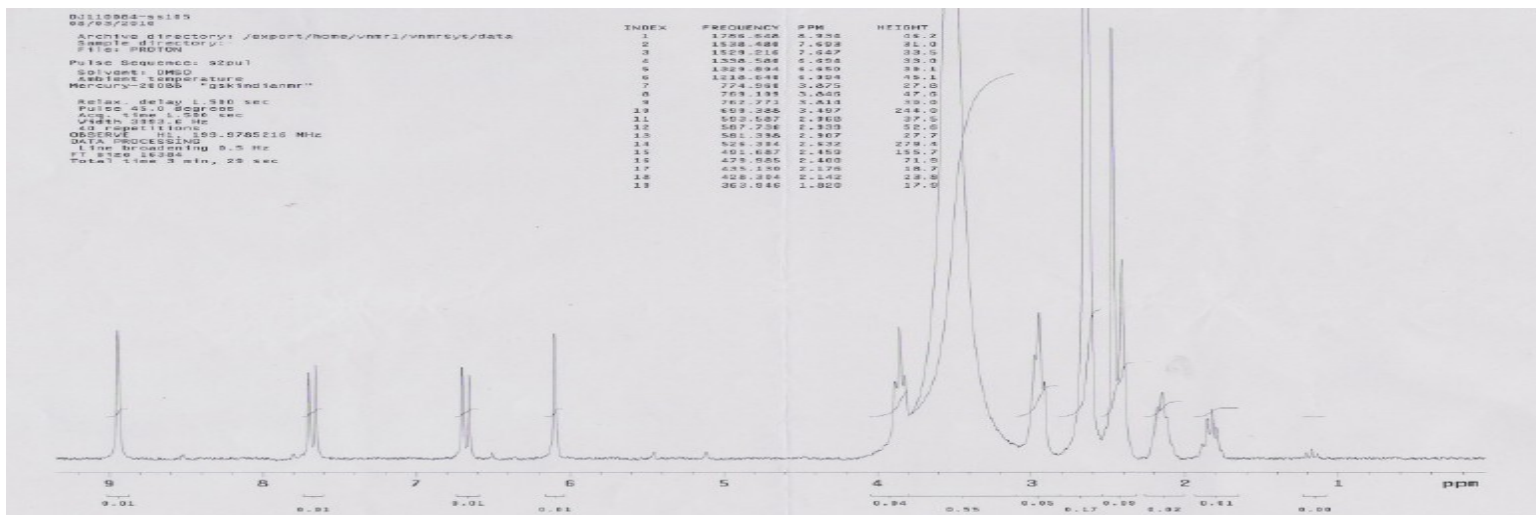


Figure S2 ¹H NMR spectrum of [Zn(NMAPIMHMC)₂].2H₂O

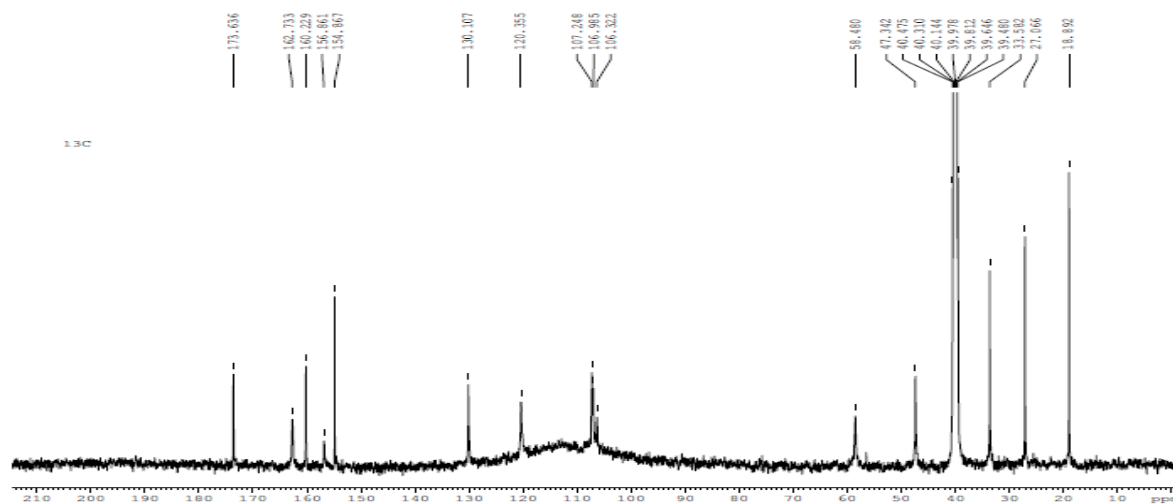


Figure S3 ¹³C NMR spectrum of [Zn(NMAPIMHMC)₂].2H₂O

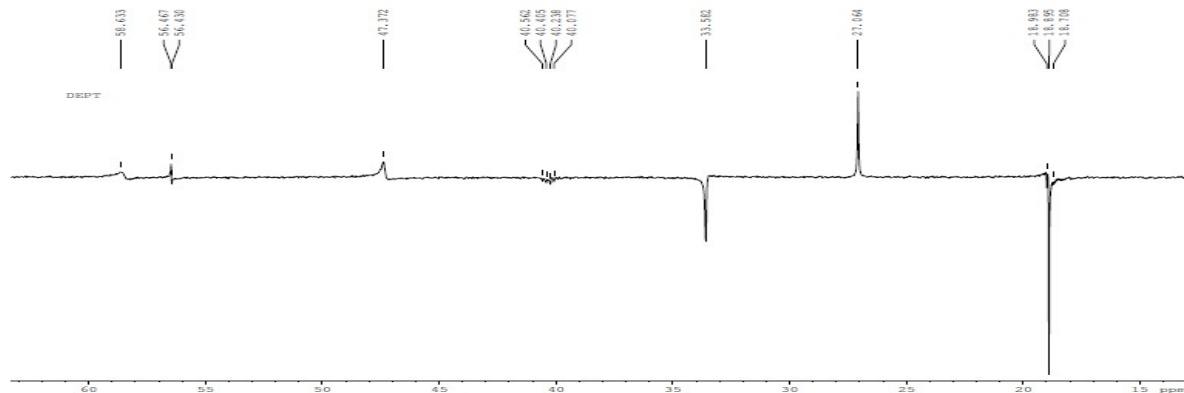


Figure S4 ^{13}C NMR DEPT spectrum of $[\text{Zn}(\text{NMAPIMHMC})_2] \cdot 2\text{H}_2\text{O}$

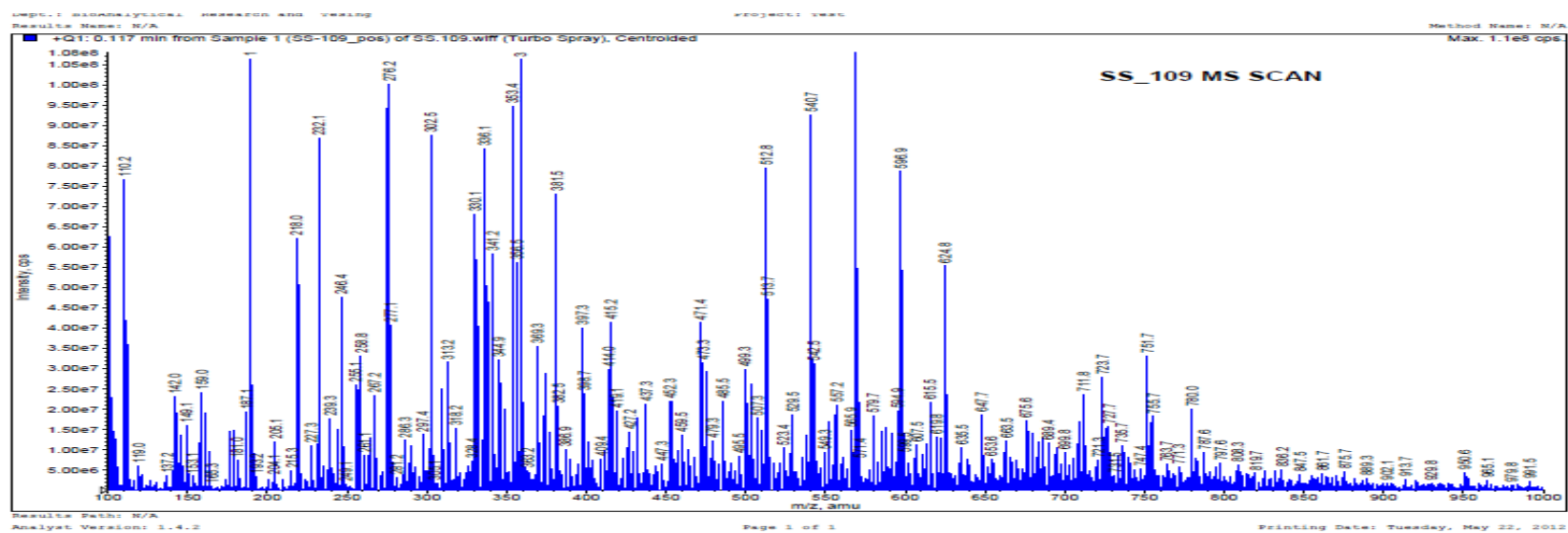


Figure S5 MS of $\text{Zn}(\text{NMAPIMHMC})_2 \cdot 2\text{H}_2\text{O}$ full scan

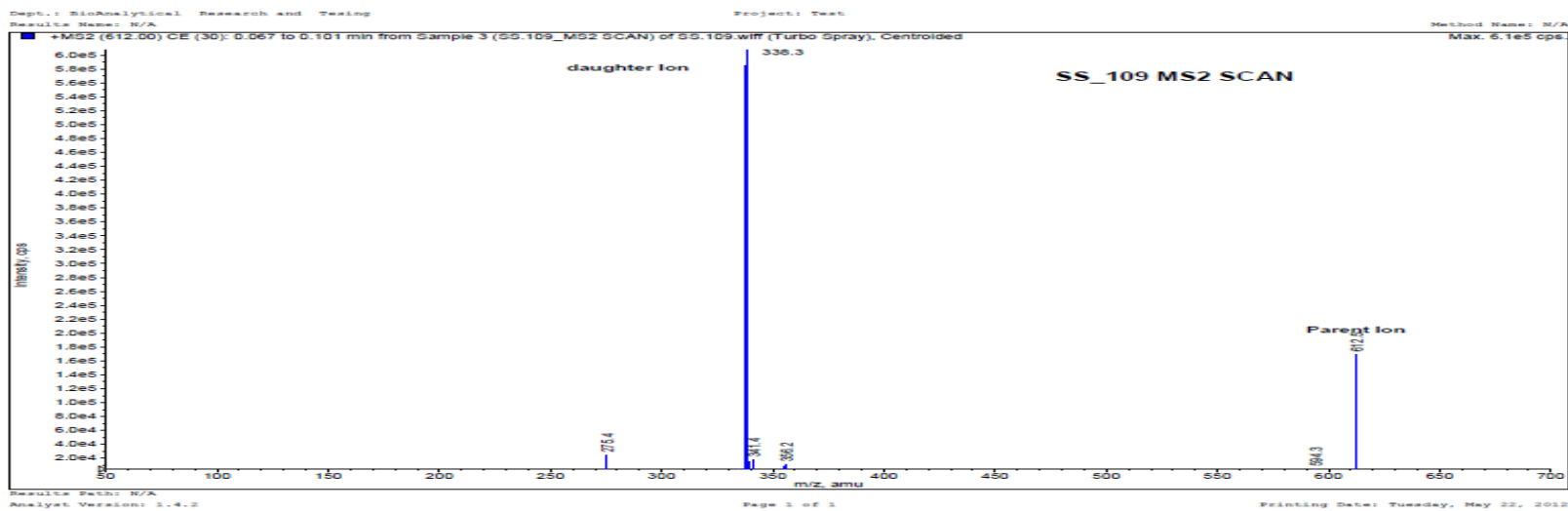


Figure S6 MS-MS of Zn(NMAPIMHMC)₂·2H₂O Parent ion peak

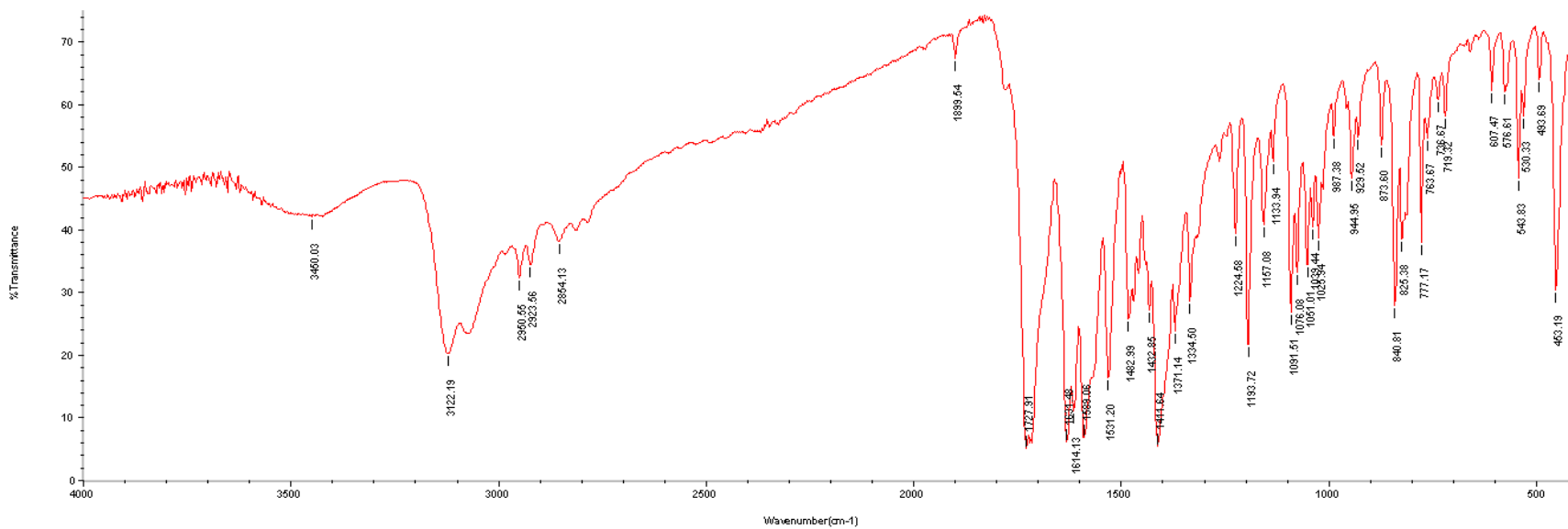


Figure S7 IR Spectrum of Zn(NMAPIMHMC)₂·2H₂O

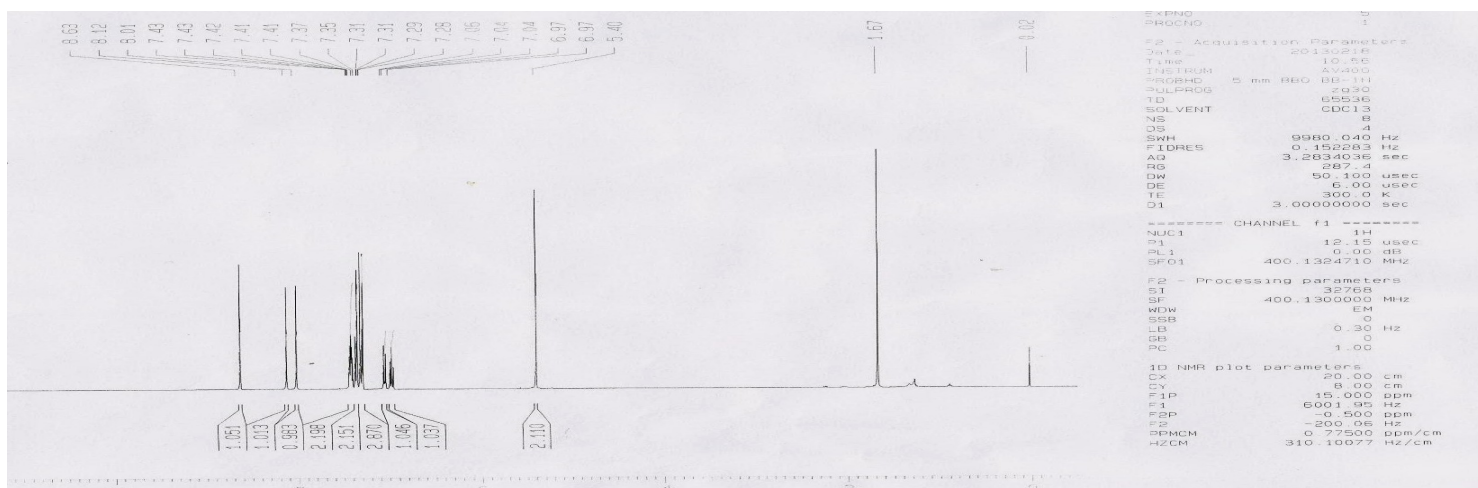


Figure S8 ¹H NMR spectrum of Schiff base TMPIMP

■ +Q1: 0.256 min from Sample 1 (SS151_Q1MS_FS(200-800AMU)_POS) of SS151_Q1MS_FS(200-800AMU)_POS.wiff (Turbo Spray), Centroided

Max. 2.5e6 cps.

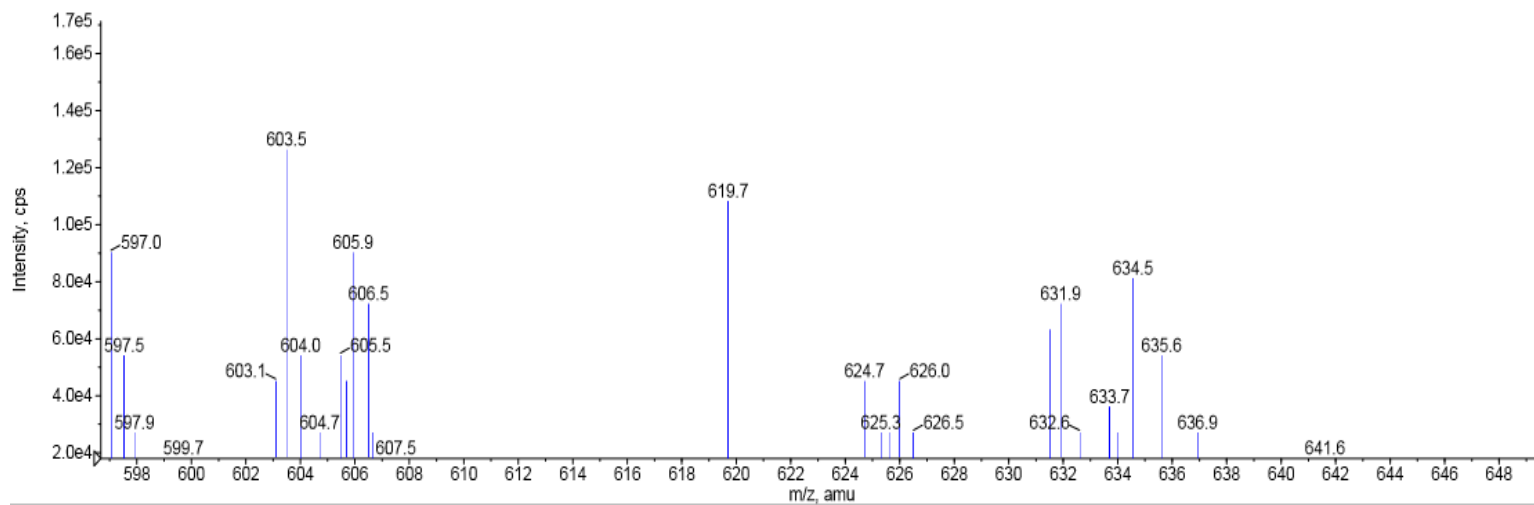


Figure S9 Mass spectrum of [Zn(TMPIMP)₂].2H₂O

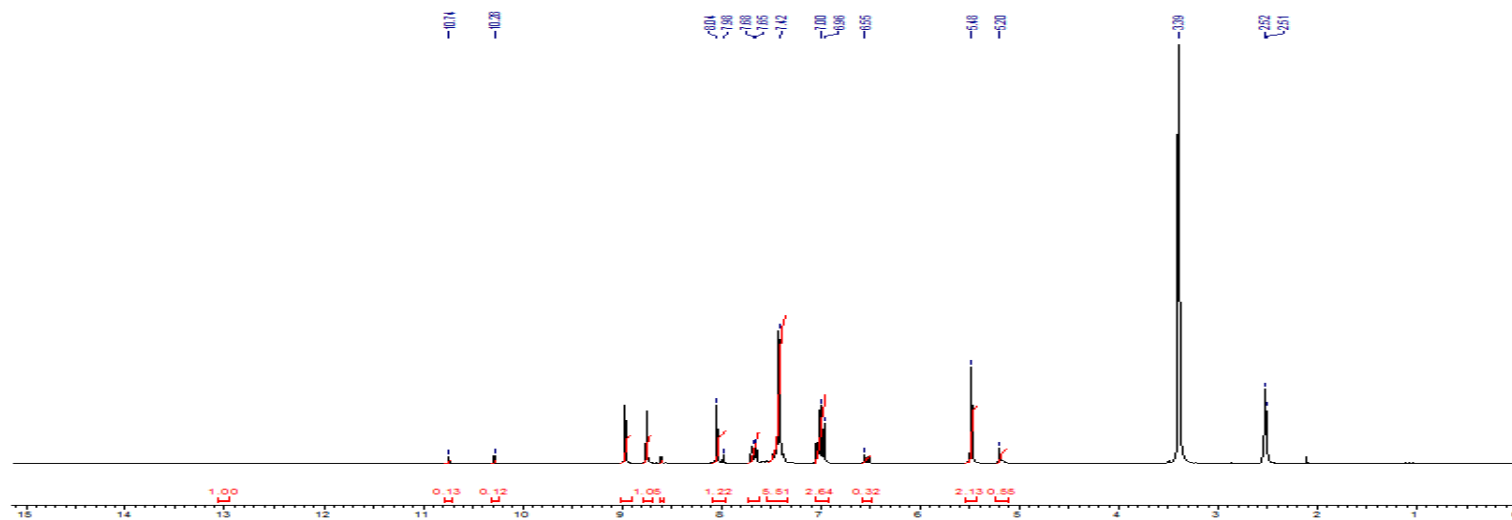


Figure S10 ^1H NMR spectrum of $[\text{Zn}(\text{TMPIMP})_2]\cdot 2\text{H}_2\text{O}$

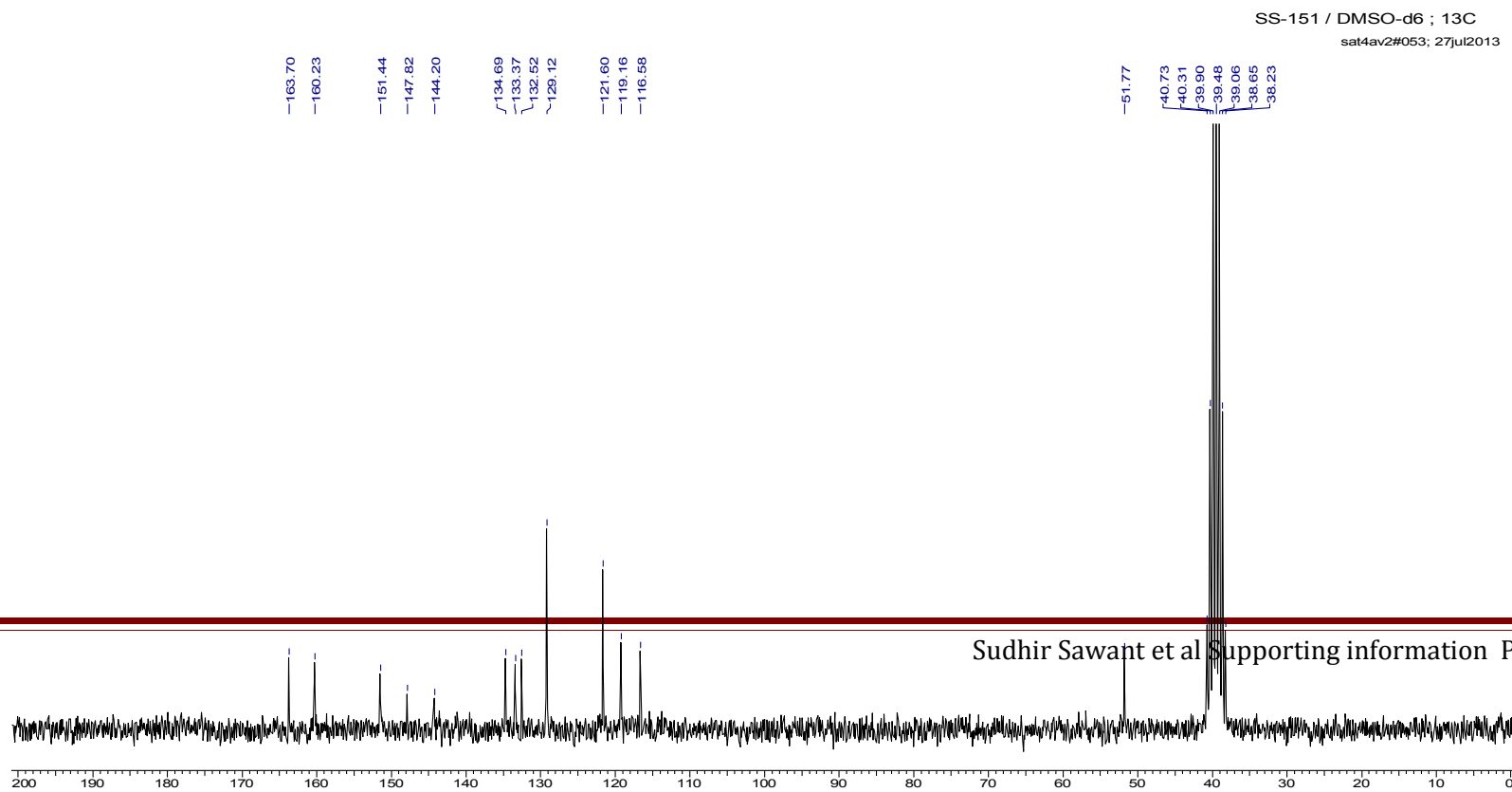


Figure S11 ^{13}C NMR spectrum of $[\text{Zn}(\text{TMPIMP})_2] \cdot 2\text{H}_2\text{O}$

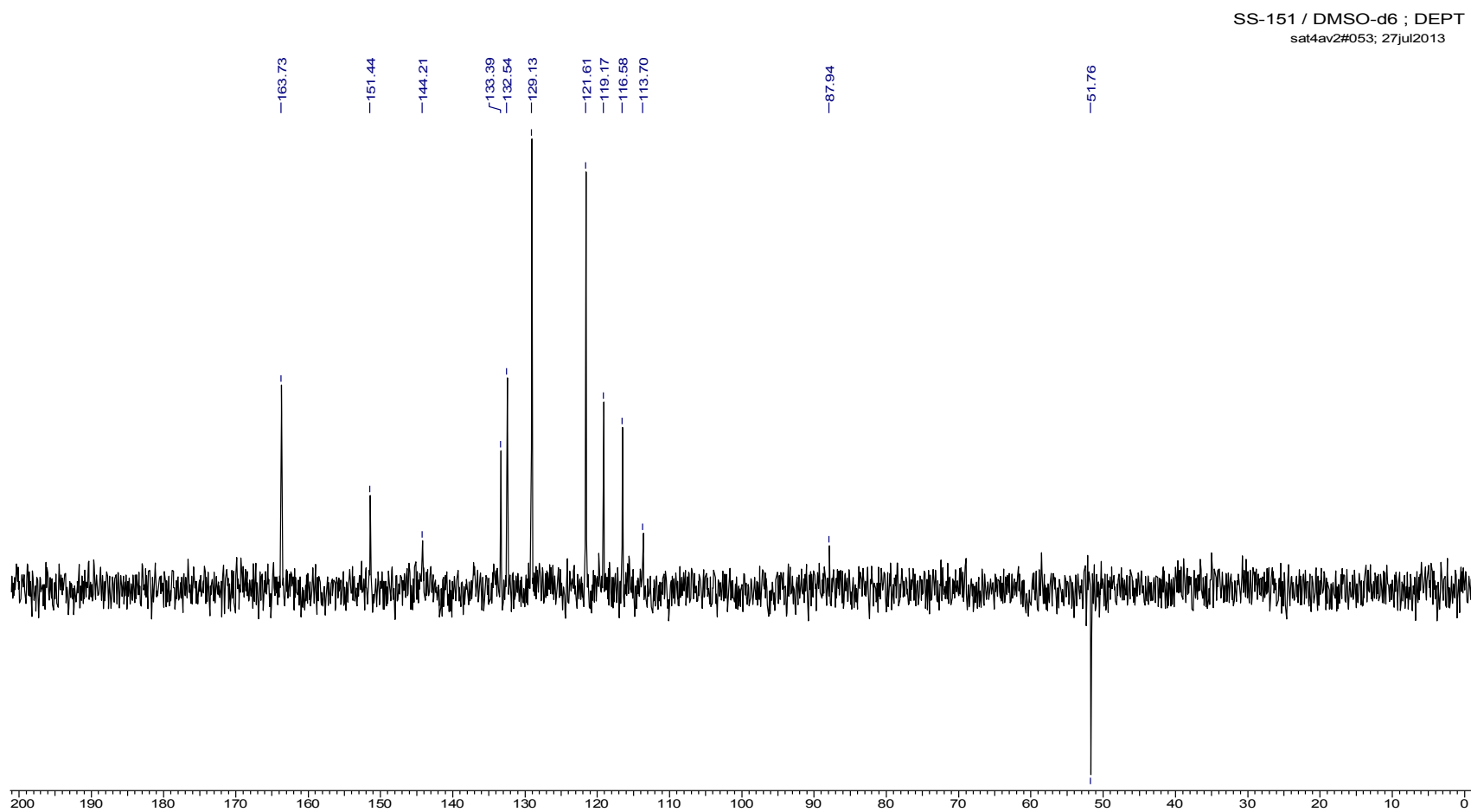


Figure S12 ^{13}C NMR DEPT spectrum of $[\text{Zn}(\text{TMPIMP})_2] \cdot 2\text{H}_2\text{O}$

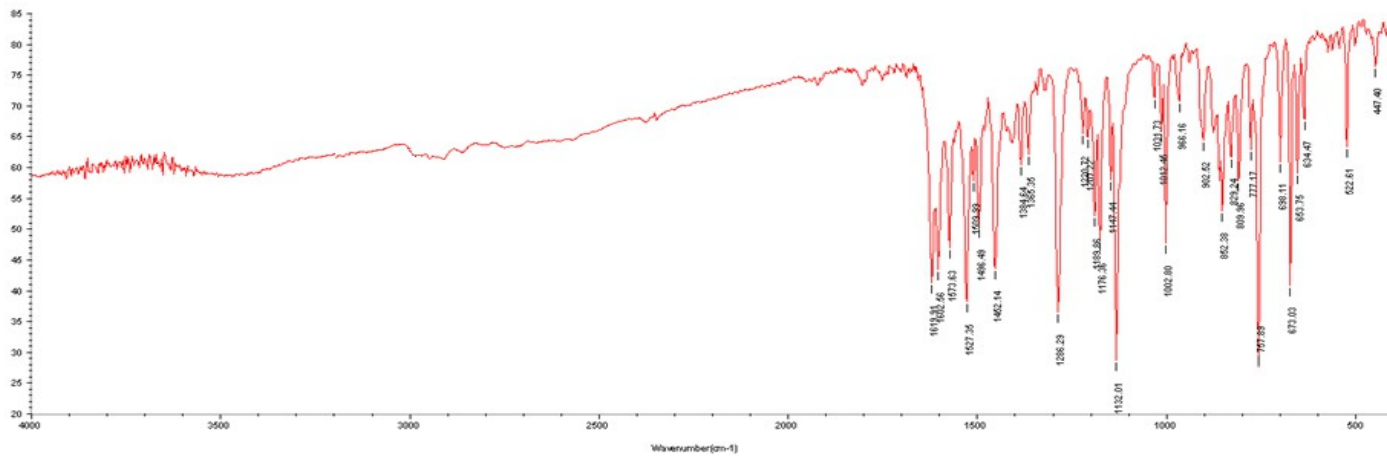


Figure S13 IR spectrum of $[\text{Zn}(\text{TMPIMP})_2] \cdot 2\text{H}_2\text{O}$

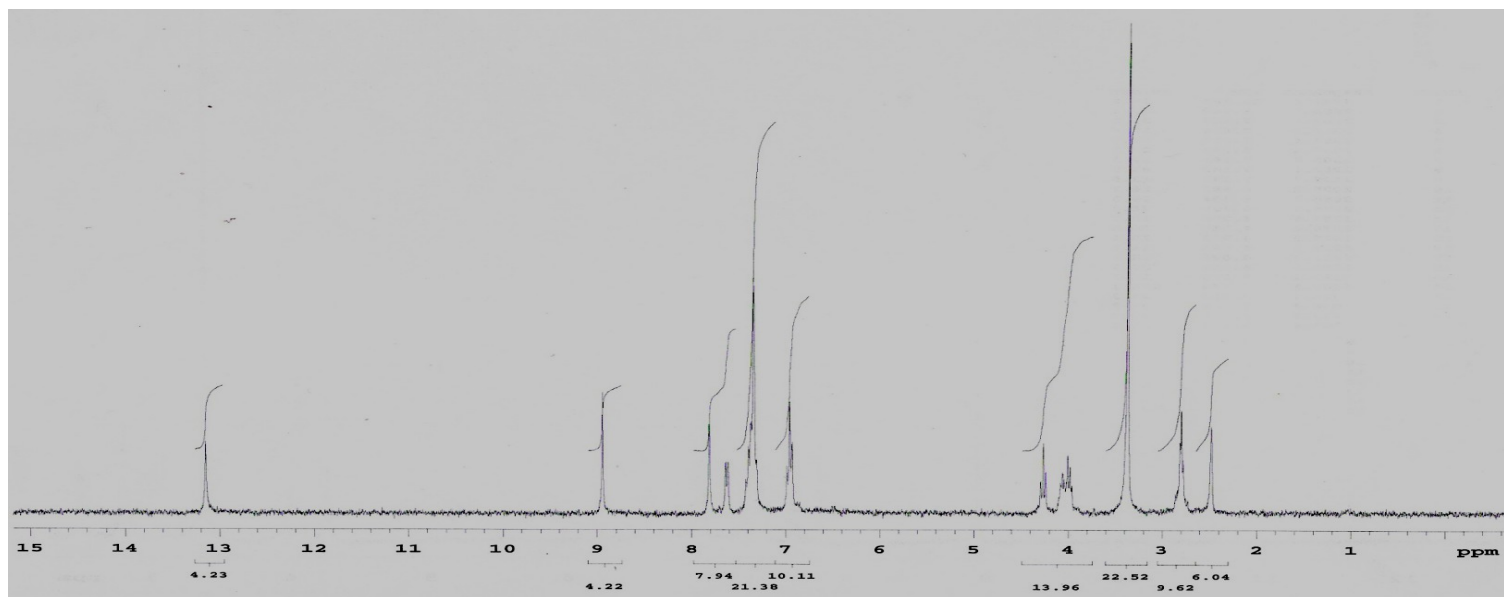


Figure S14 ^1H NMR Spectrum of Schiff base HBABO

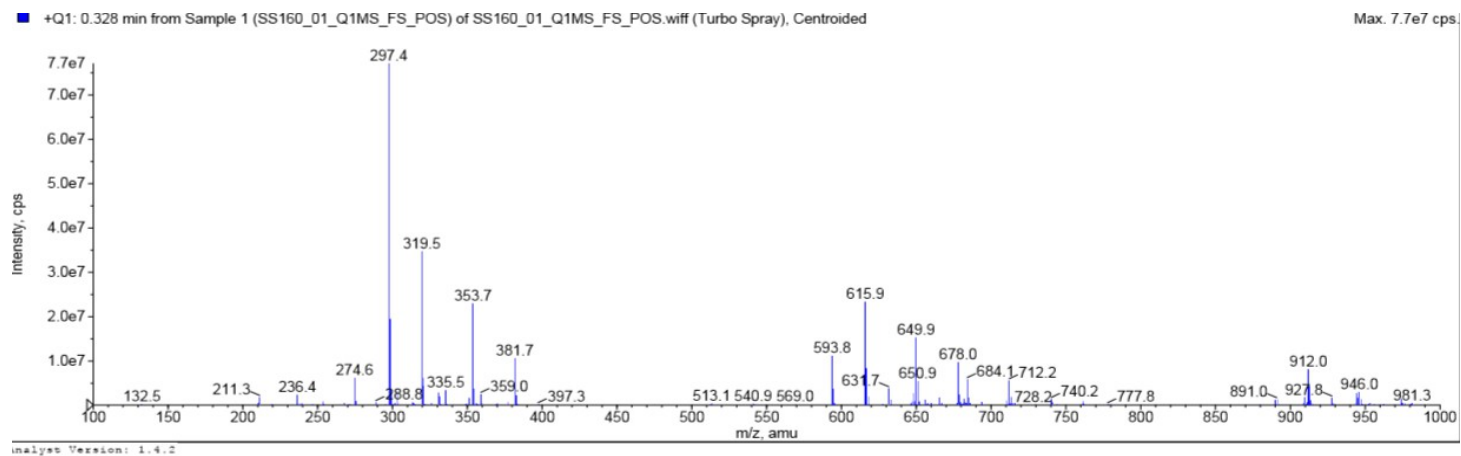


Figure S15 MS Spectrum of HBABO Schiff base

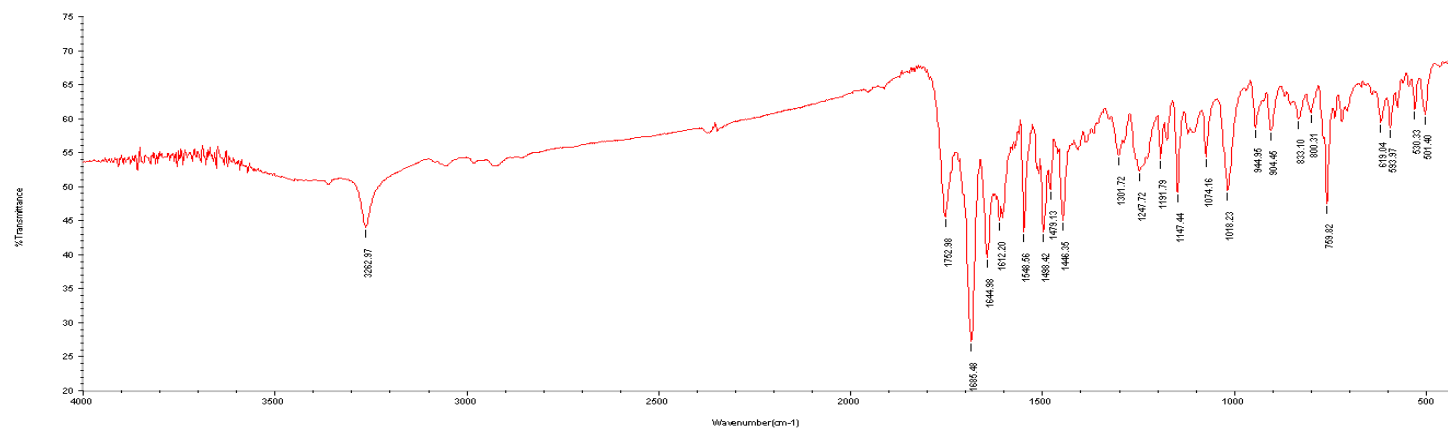


Figure S16 IR Spectrum of HBABO Schiff base

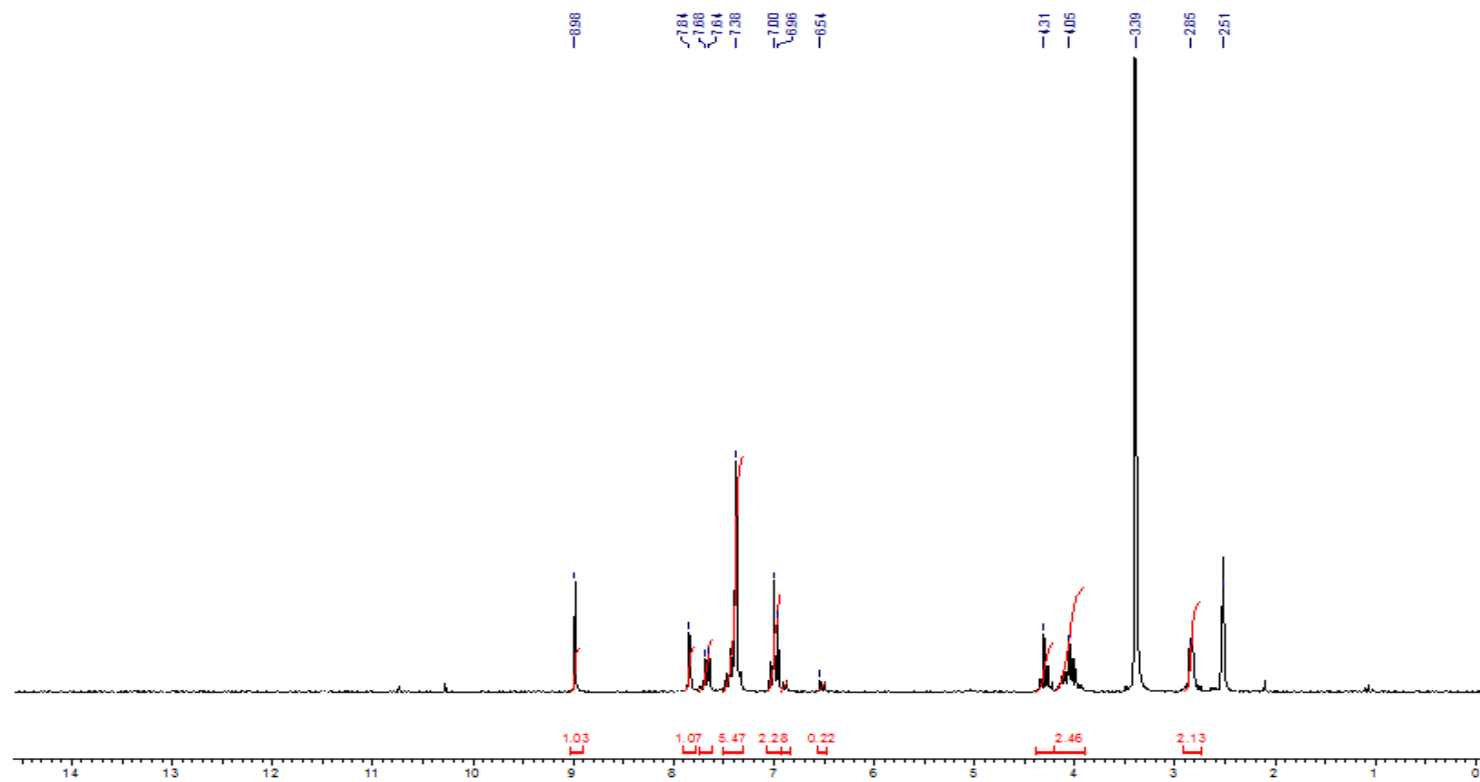


Figure S17 ¹H NMR Spectrum of Zn(HBABO)₂·2H₂O

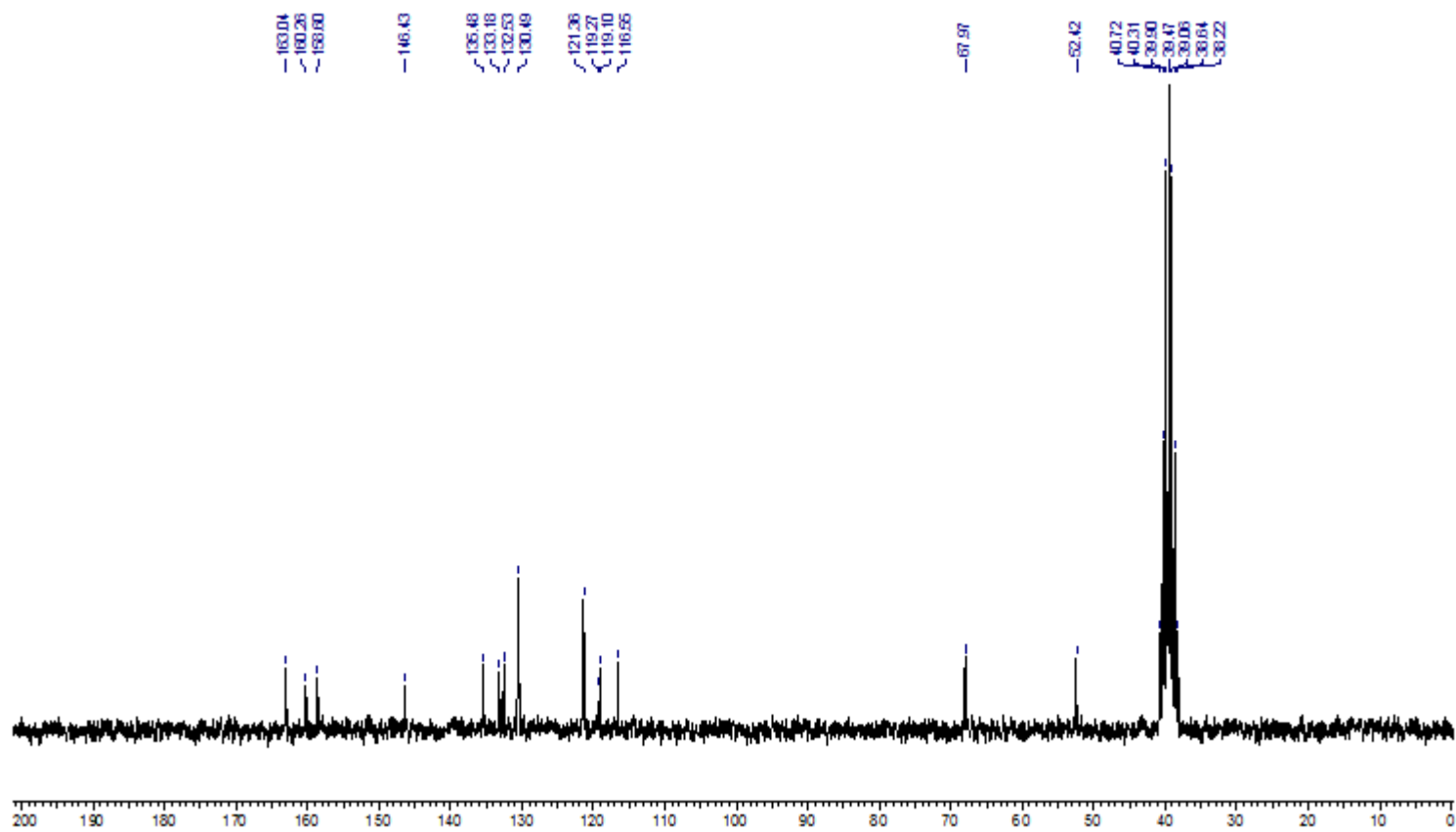


Figure S18 ¹³C NMR Spectrum of Zn(HBABO)₂·2H₂O

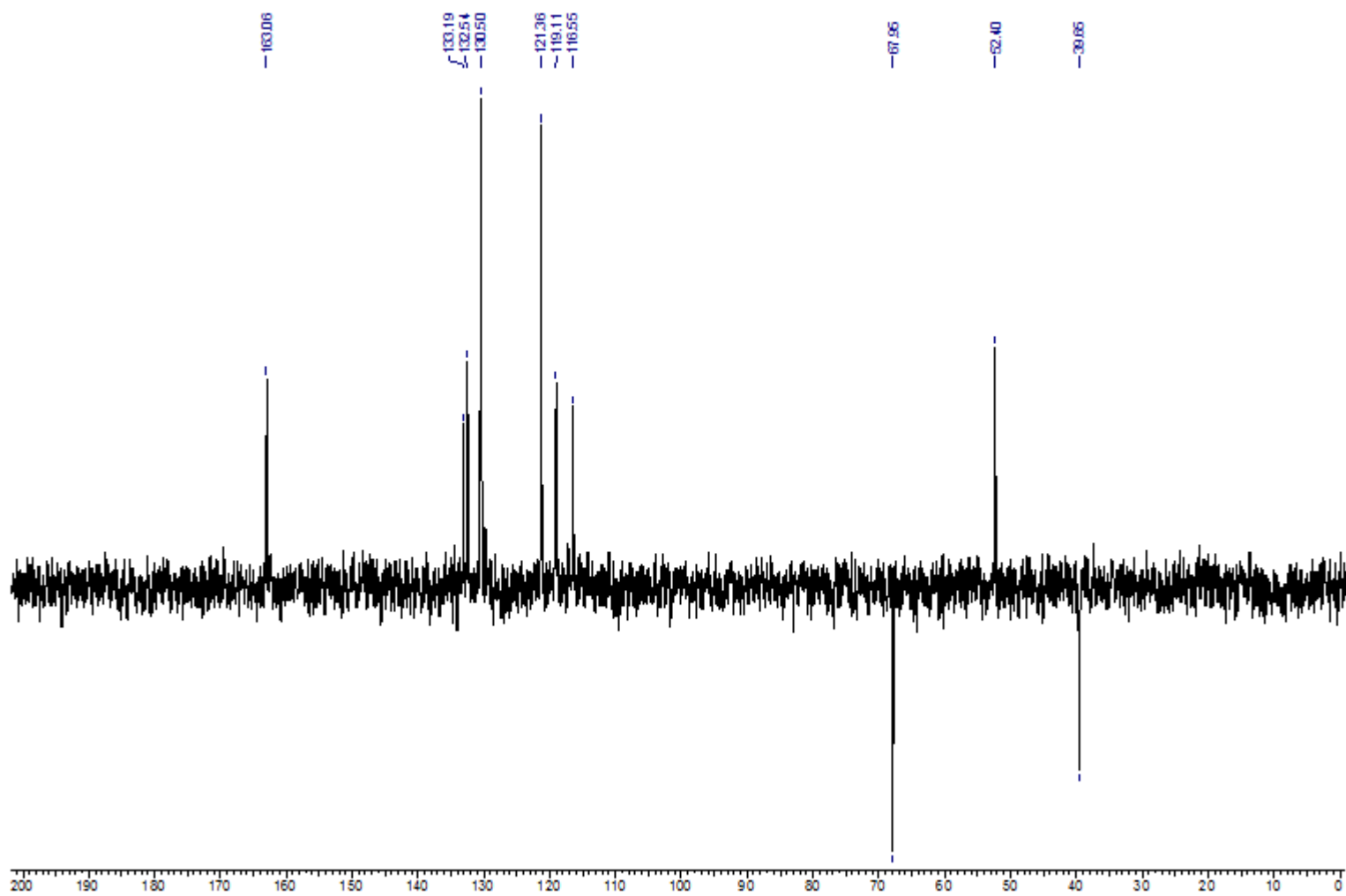


Figure S19 ^{13}C NMR DEPT Spectrum of $\text{Zn}(\text{HBABO})_2 \cdot 2\text{H}_2\text{O}$

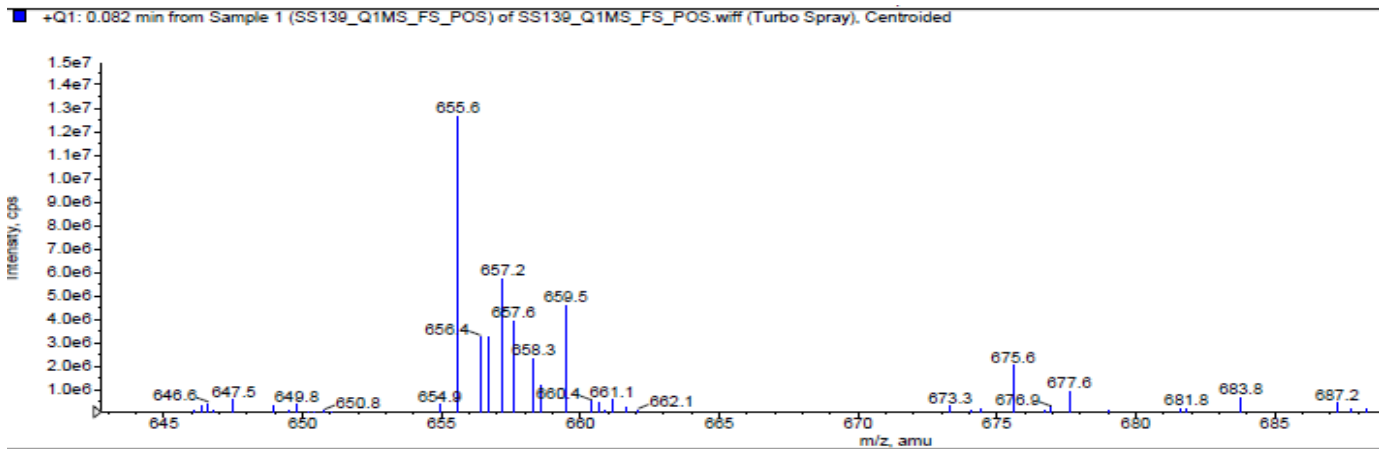


Figure S20 MS Spectrum of $\text{Zn}(\text{HBABO})_2 \cdot 2\text{H}_2\text{O}$

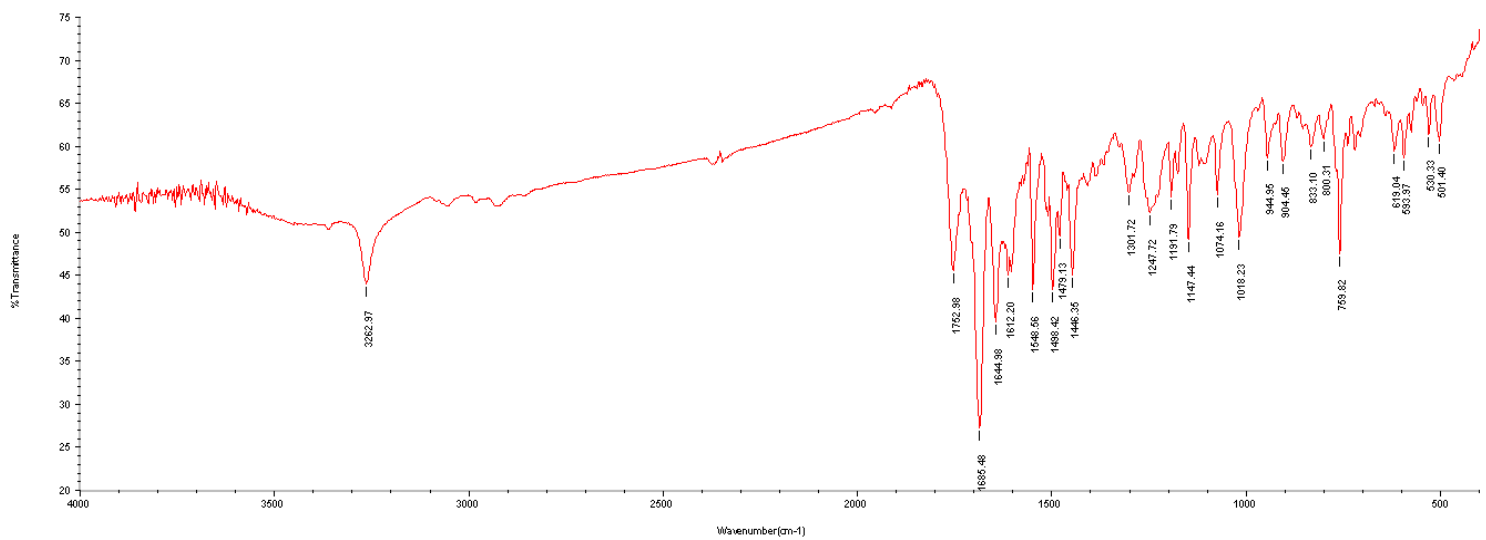


Figure S21 IR Spectrum of $\text{Zn}(\text{HBABO})_2 \cdot 2\text{H}_2\text{O}$

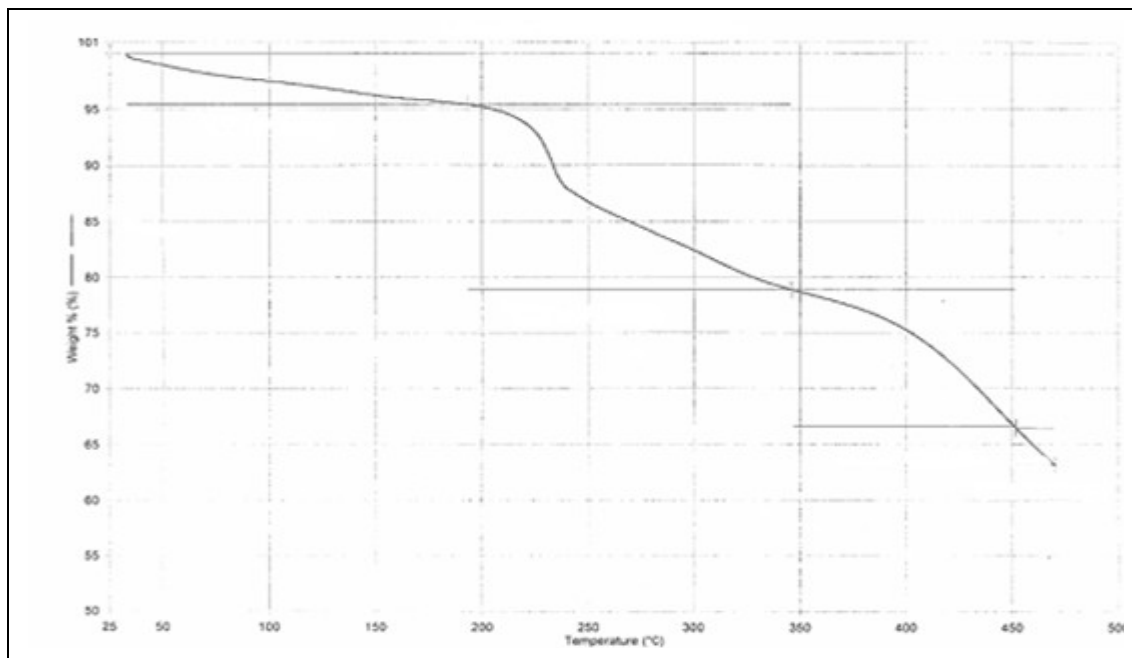


Figure S22 TGA graph of Zn(NMAPIMHMC)₂·2H₂O

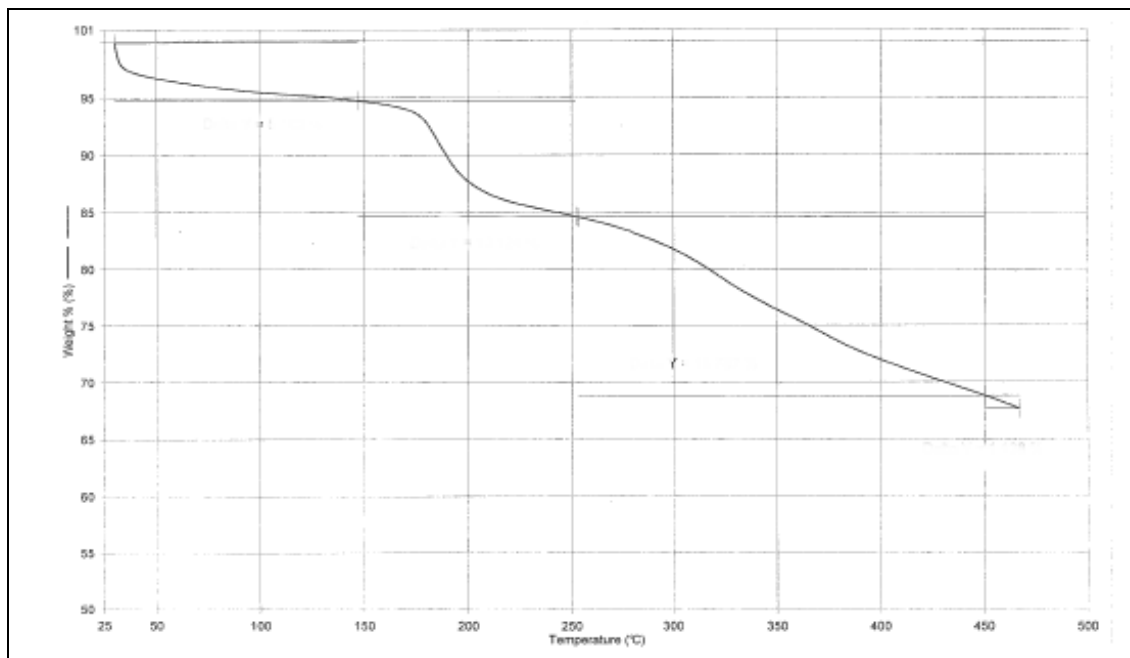


Figure S23 TGA graph of Zn(TMPIMP)₂·2H₂O

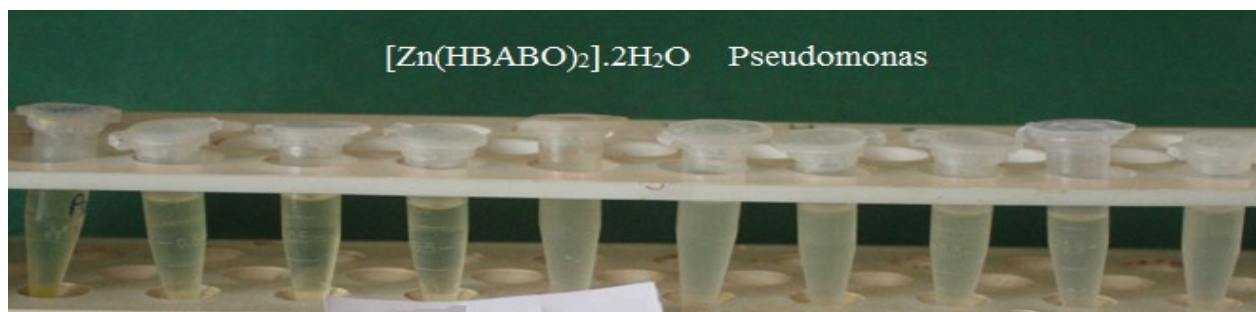


Figure S24 Antibacterial activity of [Zn(HBABO)₂].2H₂O against *Pseudomonas*

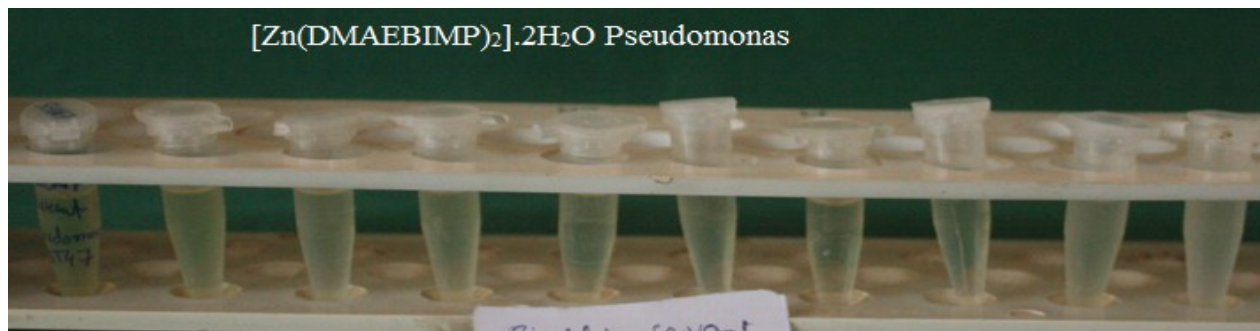


Figure S25 Antibacterial activity of $[\text{Zn}(\text{DMAEBIMP})_2] \cdot 2\text{H}_2\text{O}$ against *Pseudomonas*

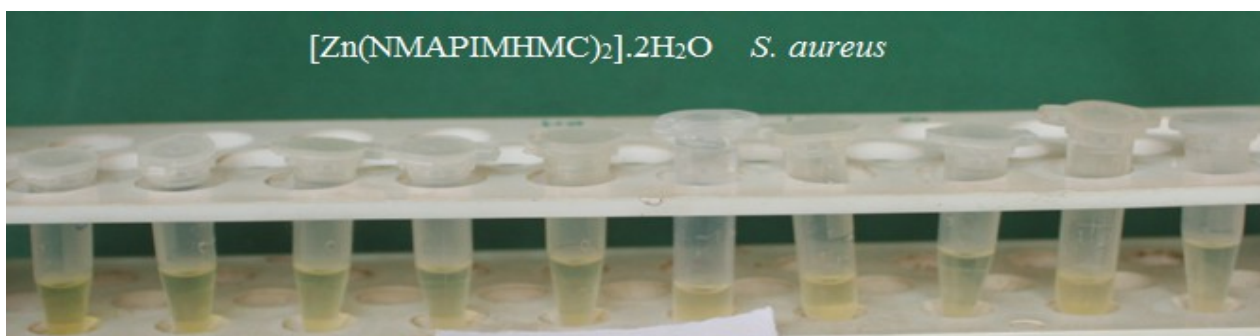


Figure S26 Antibacterial activity of $[\text{Zn}(\text{NMAPIMHMC})_2] \cdot 2\text{H}_2\text{O}$ against *S. aureus*

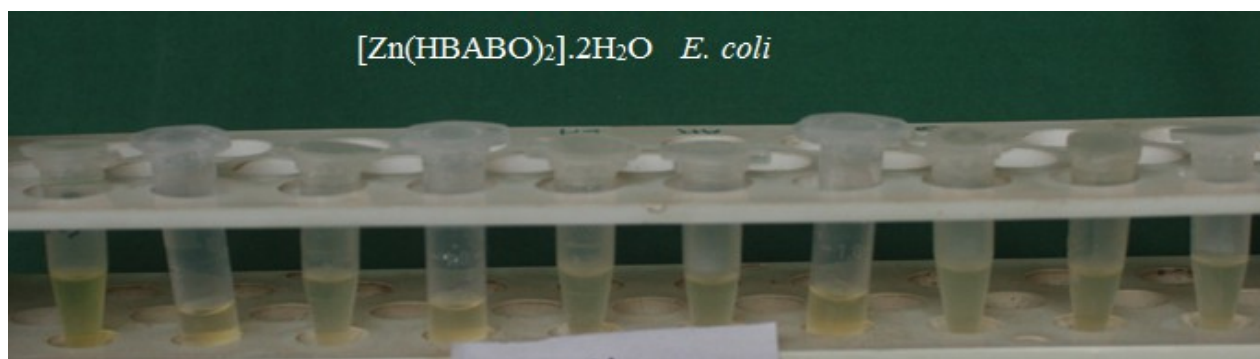


Figure S27 Antibacterial activity of $[\text{Zn}(\text{HBABO})_2] \cdot 2\text{H}_2\text{O}$ against *E. coli*

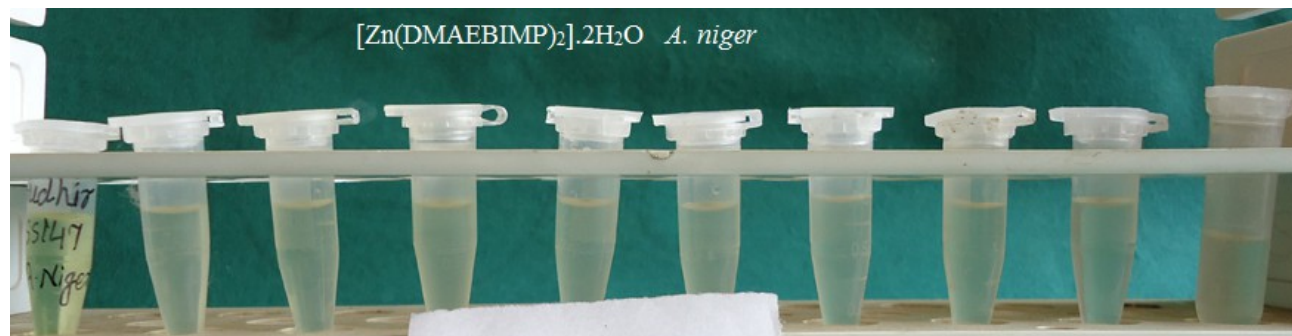


Figure S28 Antifungal activity of [Zn(DMAEBIMP)₂].2H₂O against *A. niger*

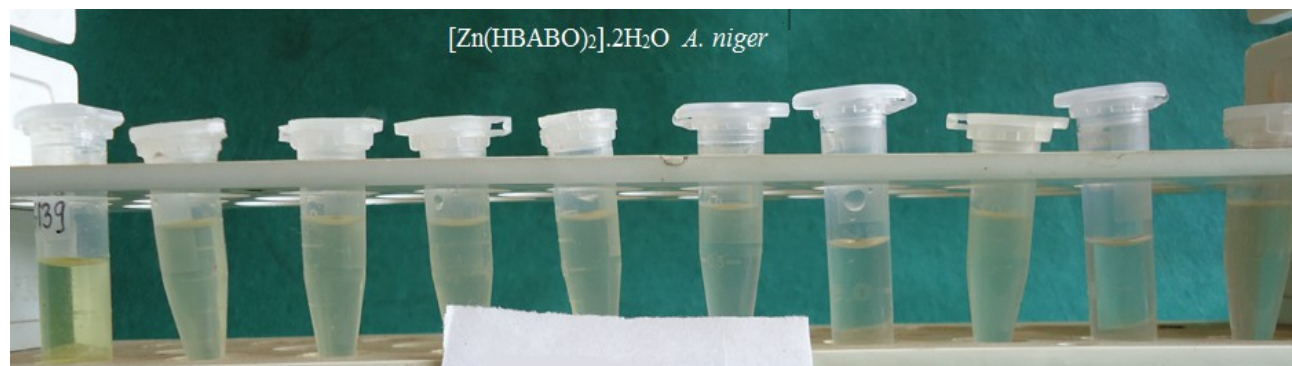


Figure S29 Antifungal activity of [Zn(HBABO)₂].2H₂O against *A. niger*



Figure S30 Antifungal activity of [Zn(DMAPIMMTC)₂].2H₂O against *Candida a.*