Supplementary Information

Exploring the catalytic activity of new water soluble dinuclear copper(II) complexes towards the glycoside hydrolysis

Shobhraj Haldar, Ayan Patra and Manindranath Bera*

Department of Chemistry, University of Kalyani, Kalyani, Nadia, West Bengal – 741235, INDIA.
E-mail:mbera2009@klyuniv.ac.in; Tel.:+91 33 25828282x306; Fax:+91 33 25828282

Figures with captions

Fig. S1 FTIR spectrum of the ligand H_3phpda in the region of 4000-450 cm^{-1}.

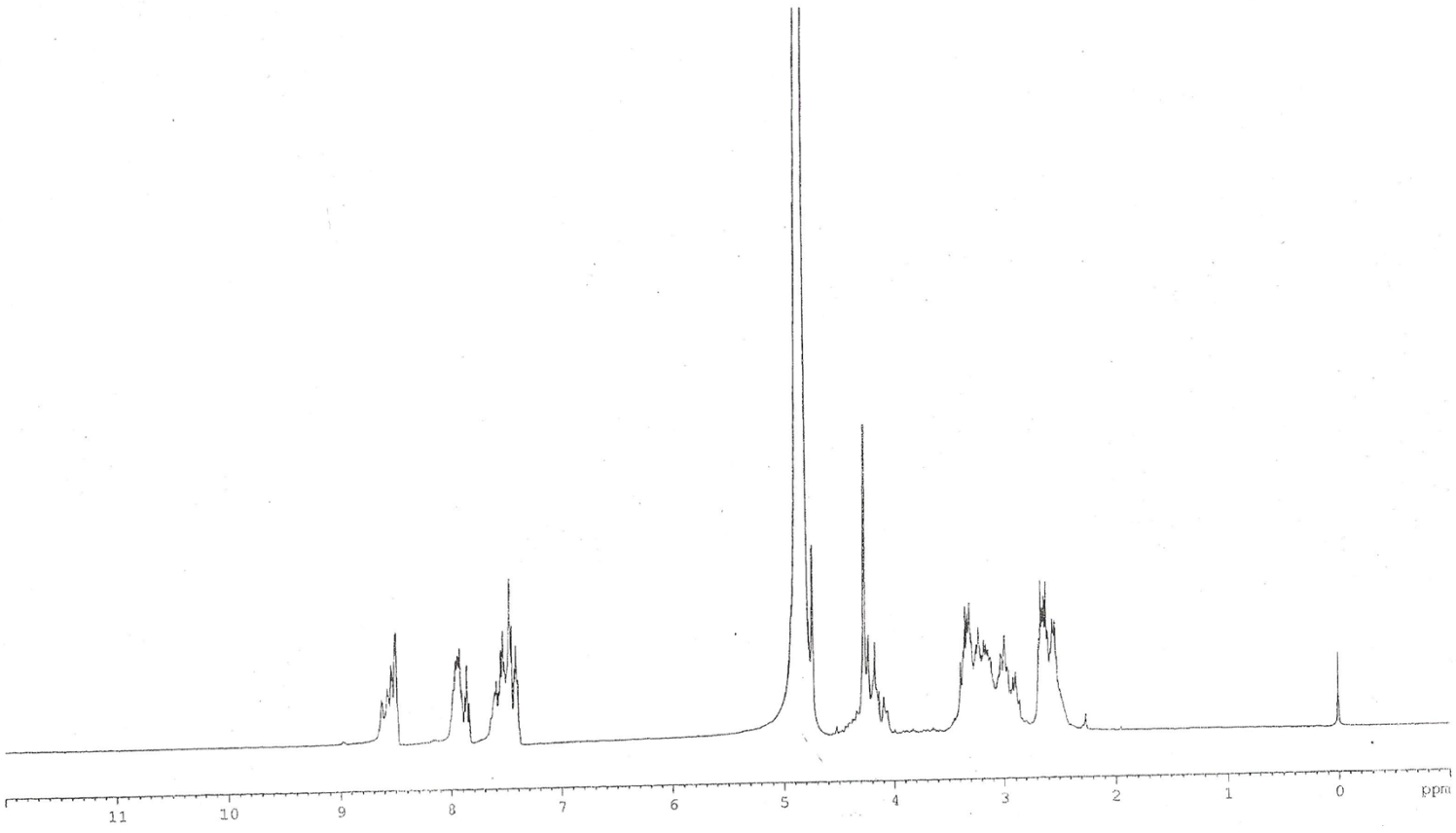


Fig. S2 ^{1}H NMR spectrum of the ligand H_3phpda in D_2O.

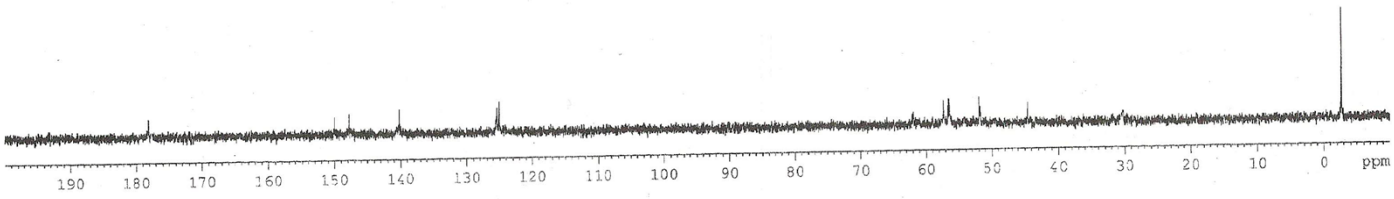


Fig. S3 ^{13}C NMR spectrum of the ligand H_3phpda in D_2O.

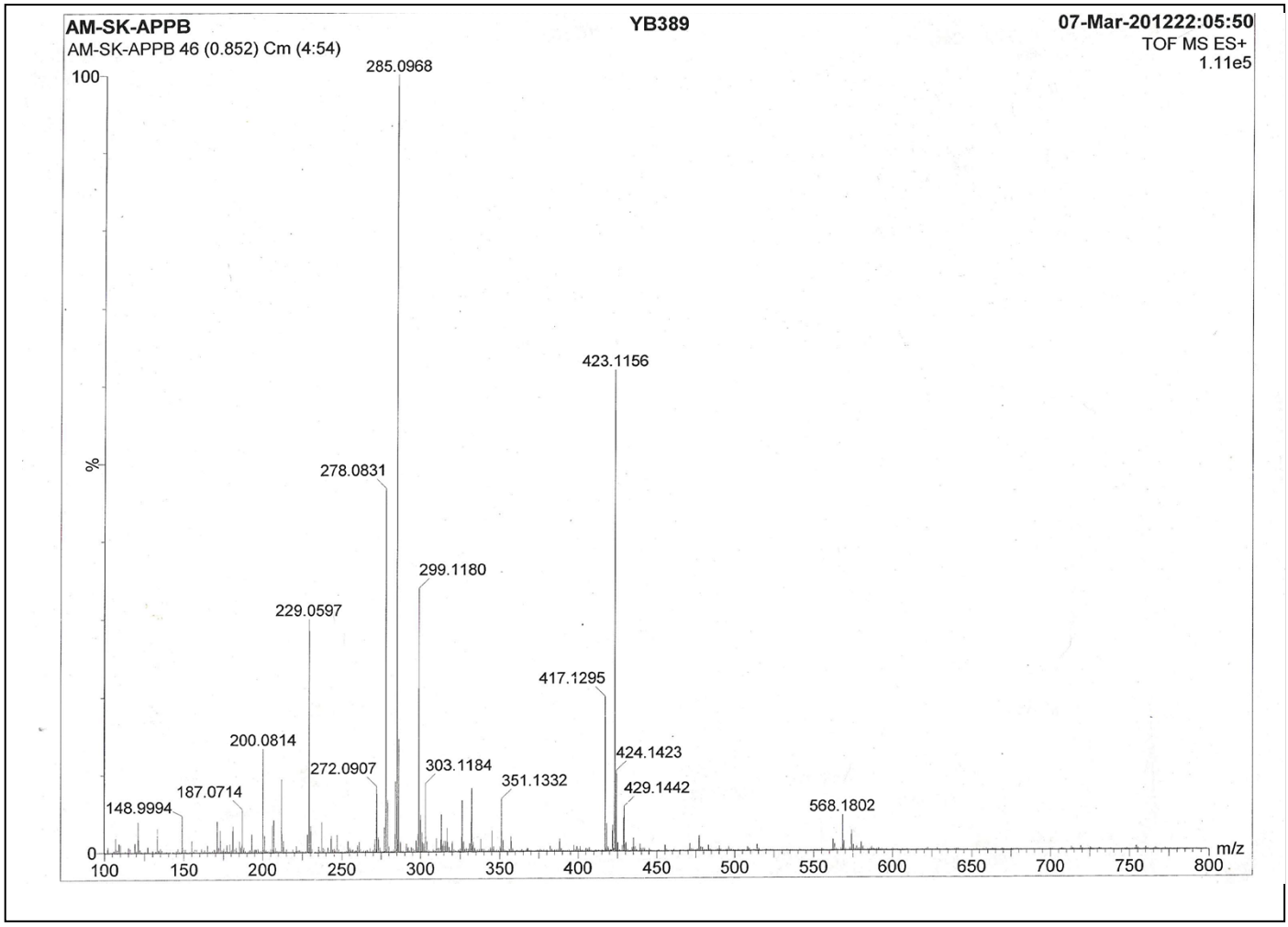


Fig. S4 ESI mass spectrum (positive ion mode) of the ligand H_3phpda in methanol solution.

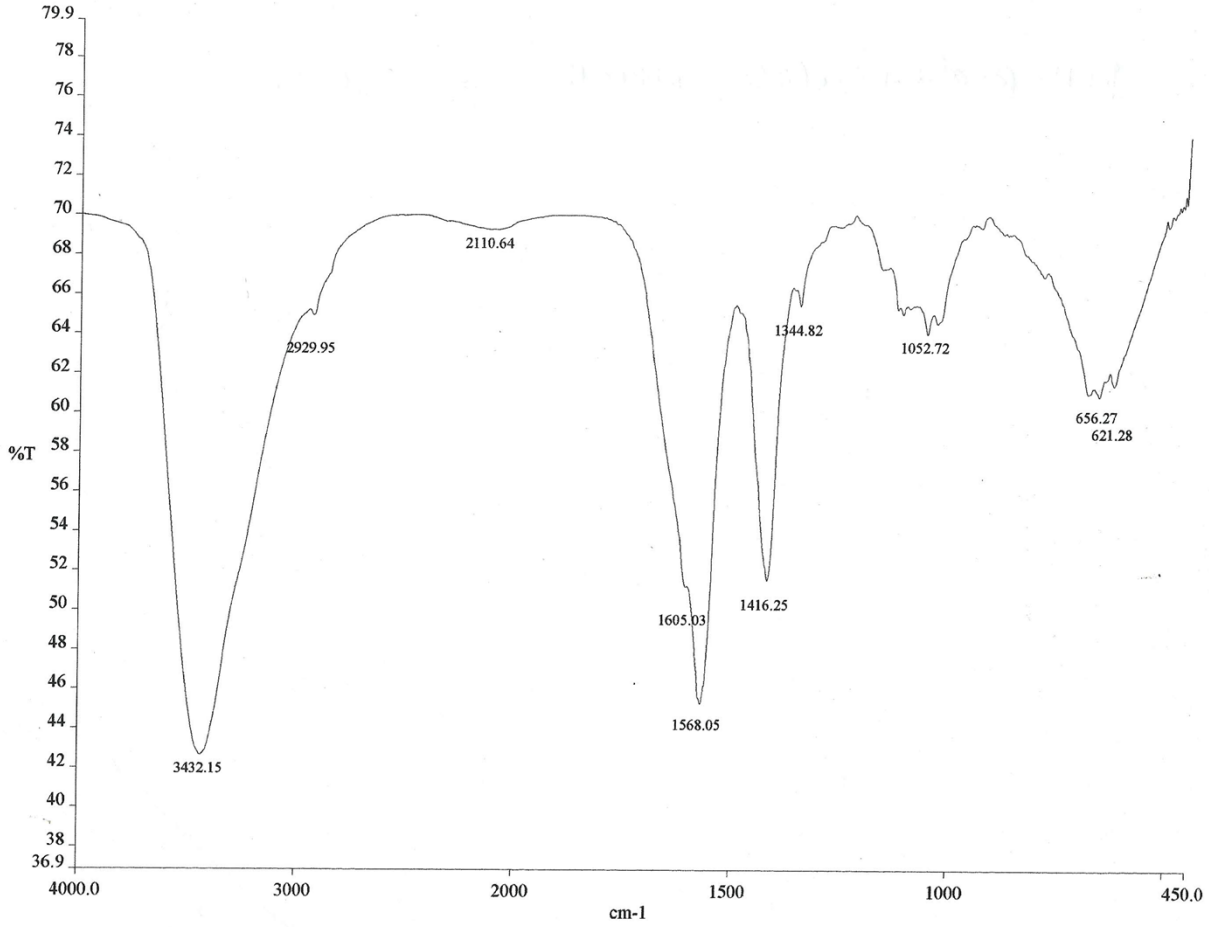
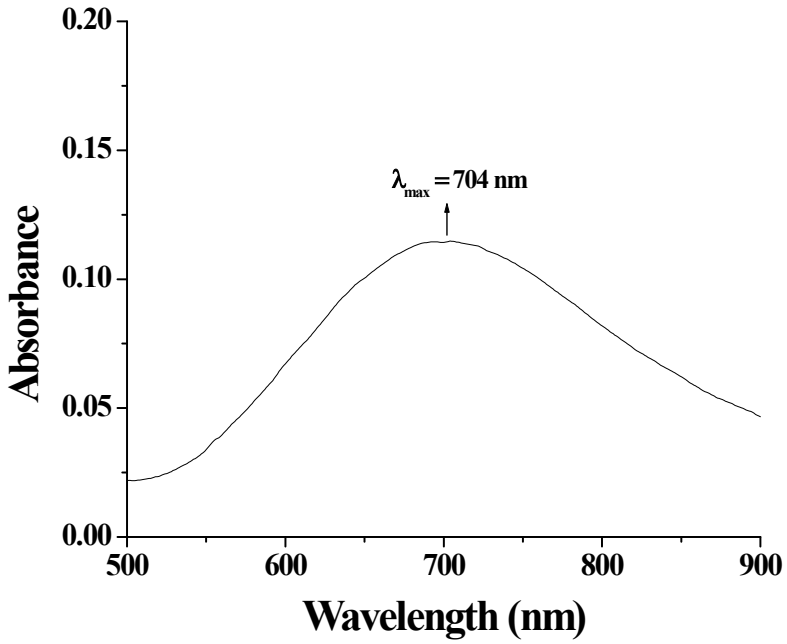


Fig. S5 FTIR spectrum of complex **1** in the region of 4000-450 cm^{-1}.



(a)

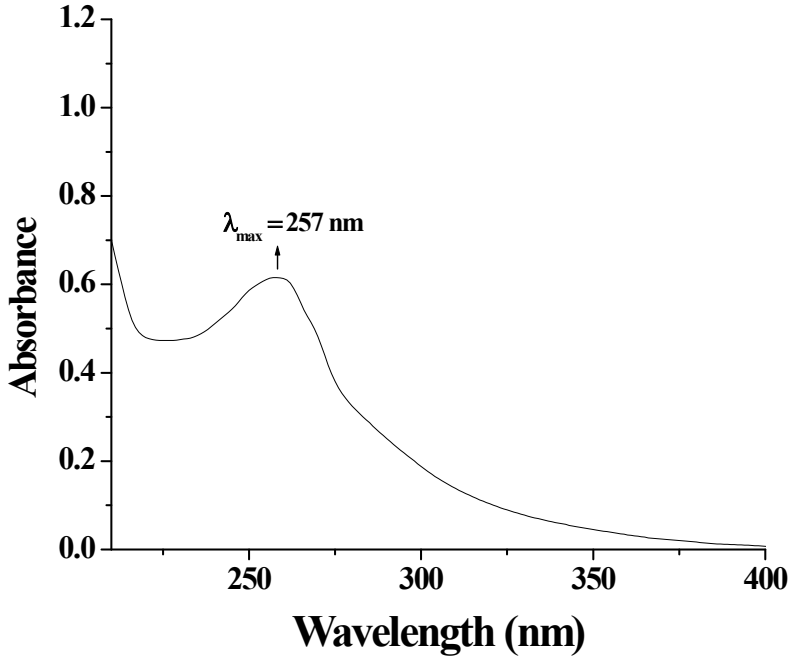
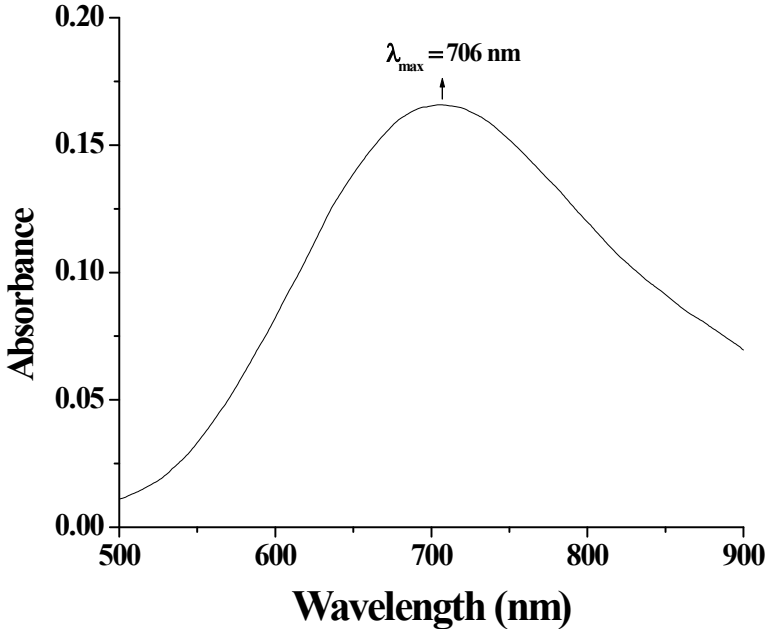
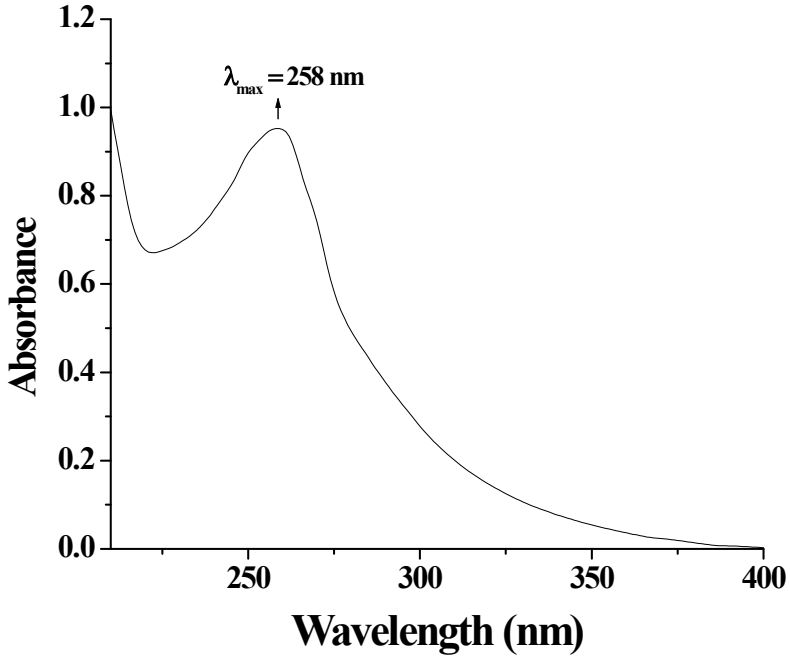


Fig. S6 UV-vis spectra of complex **1** at (a) 10^{-3}(M) and (b) 10^{-4}(M) in aqueous solution at pH~7.2.

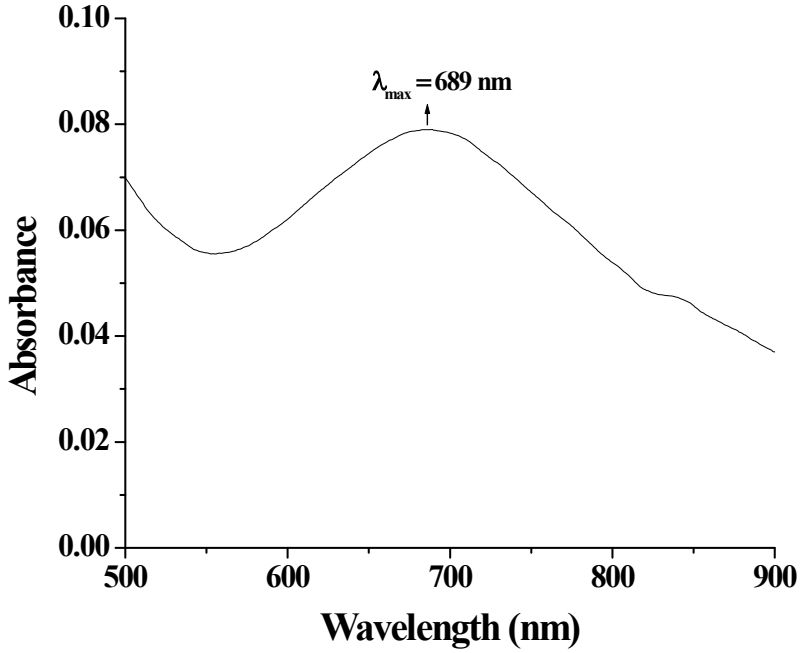


(a)

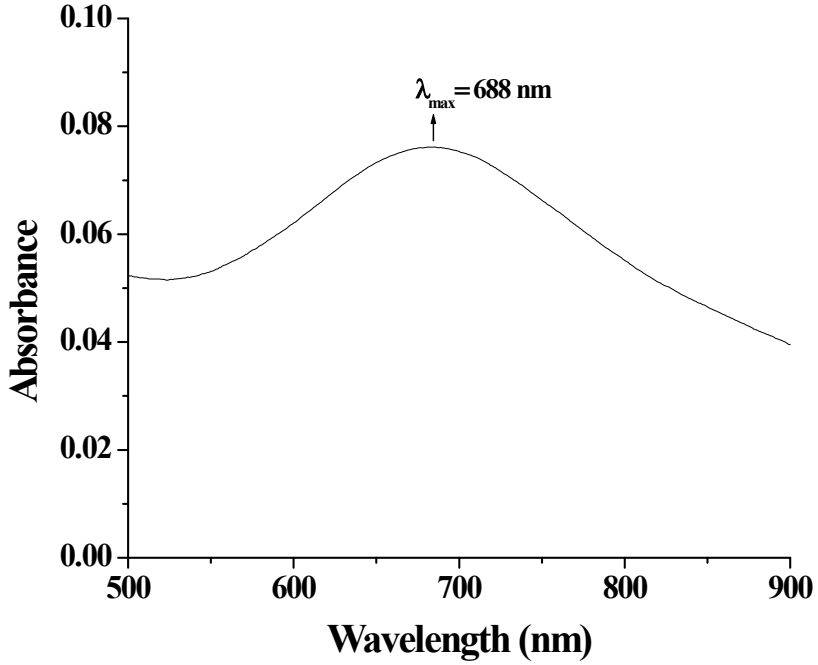


(b)

Fig. S7 UV-vis spectra of complex **2** at (a) 10^{-3}(M) and (b) 10^{-4}(M) in aqueous solution at pH~7.2.



(a)



(b)

Fig. S8 UV-vis spectra of (a) complex **1** at 10^{-3}(M) and (b) complex **2** at 10^{-3}(M) in aqueous solution at pH~10.5.

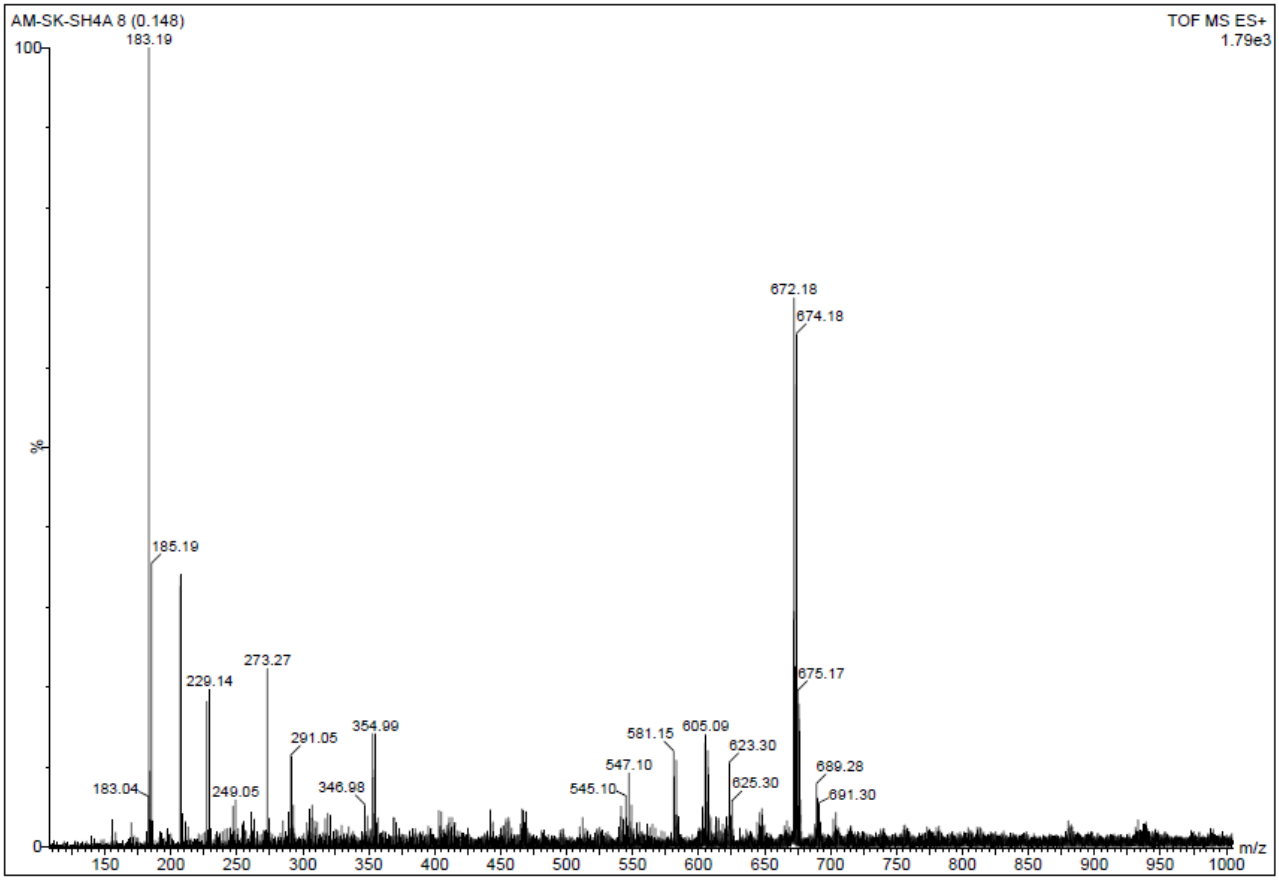


Fig. S9 ESI mass spectrum (positive ion mode) of complex **1** in aqueous solution at pH~7.2.

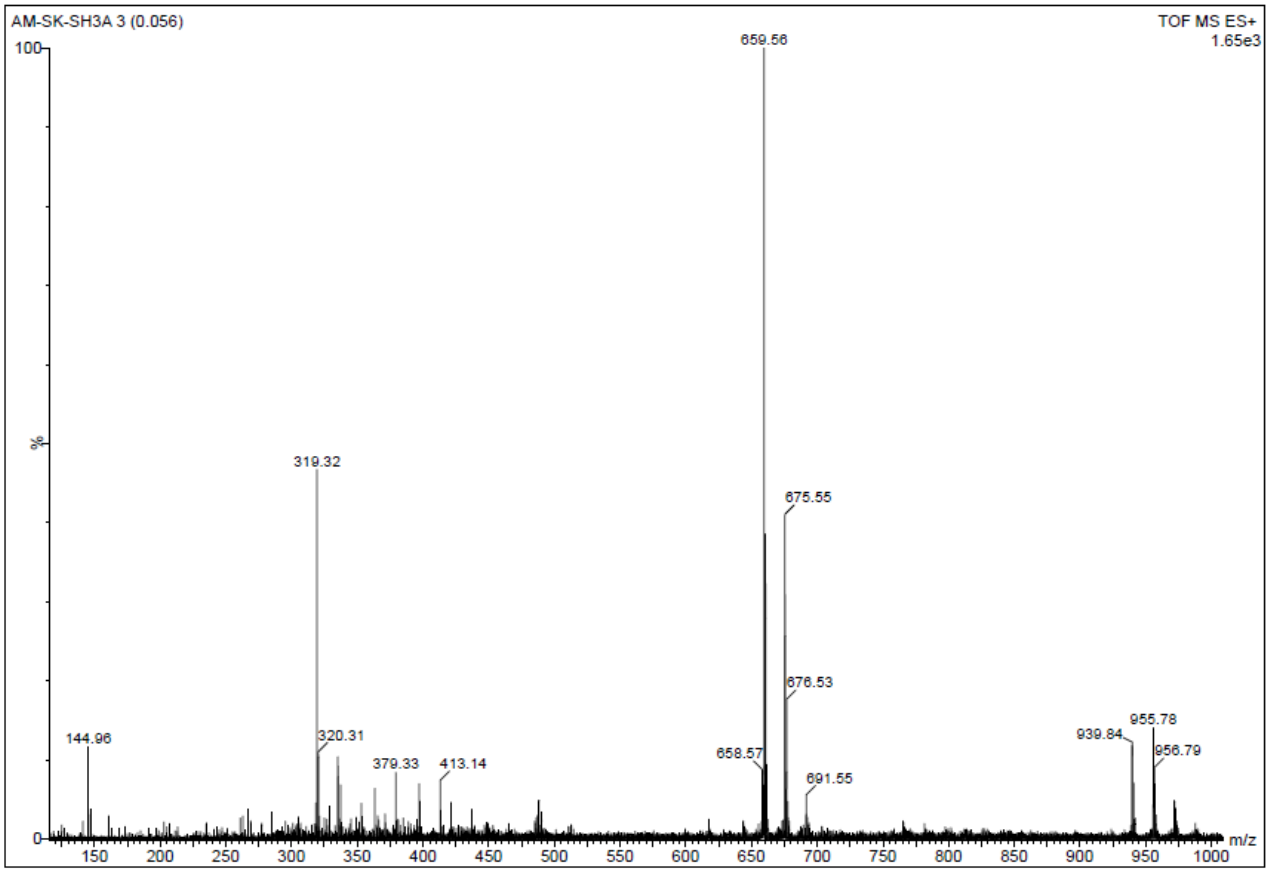


Fig. S10 ESI mass spectrum (positive ion mode) of complex **2** in aqueous solution at pH~7.2.

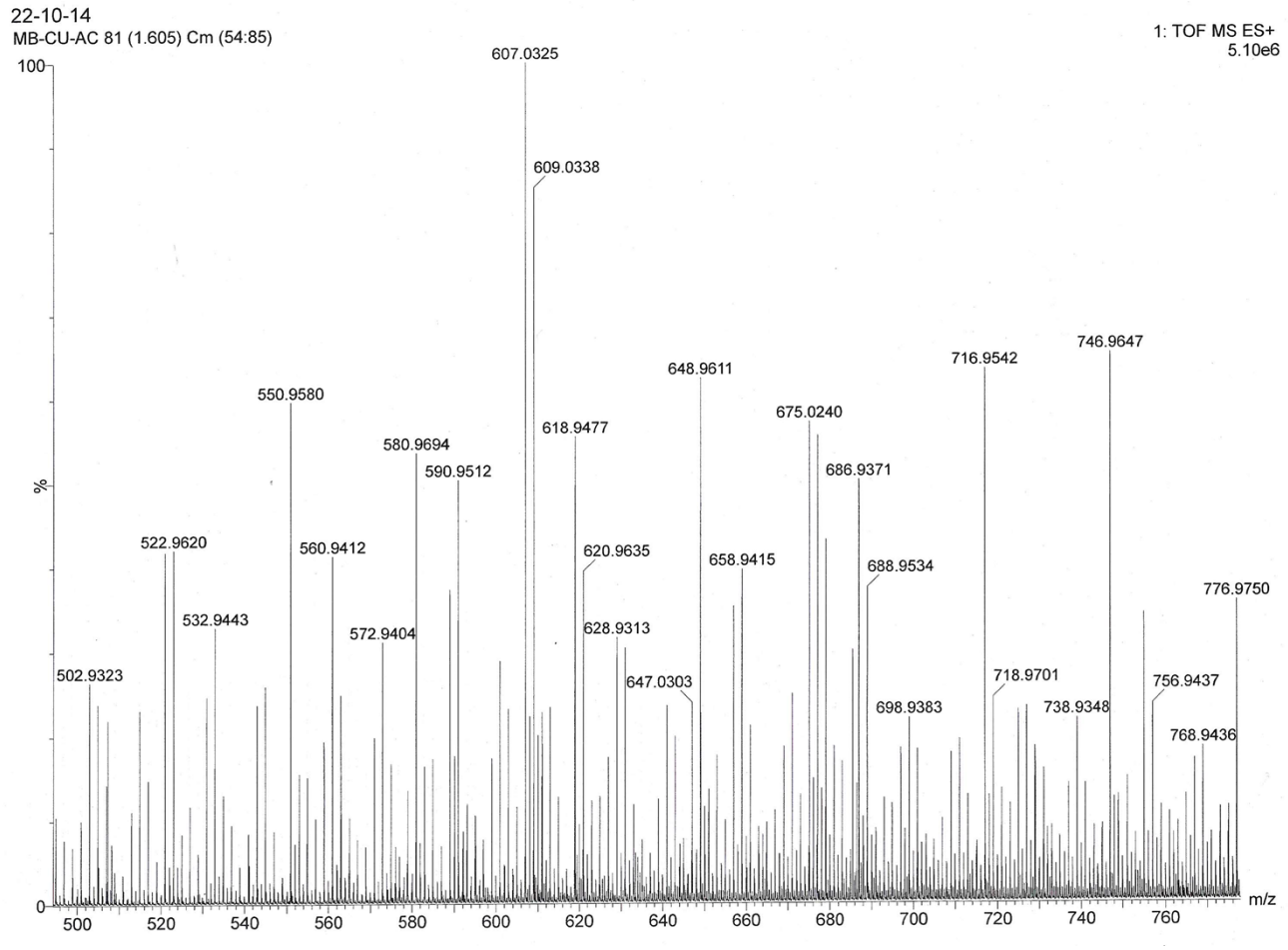


Fig. S11 ESI mass spectrum (positive ion mode) of complex **1** in aqueous solution at pH~10.5.

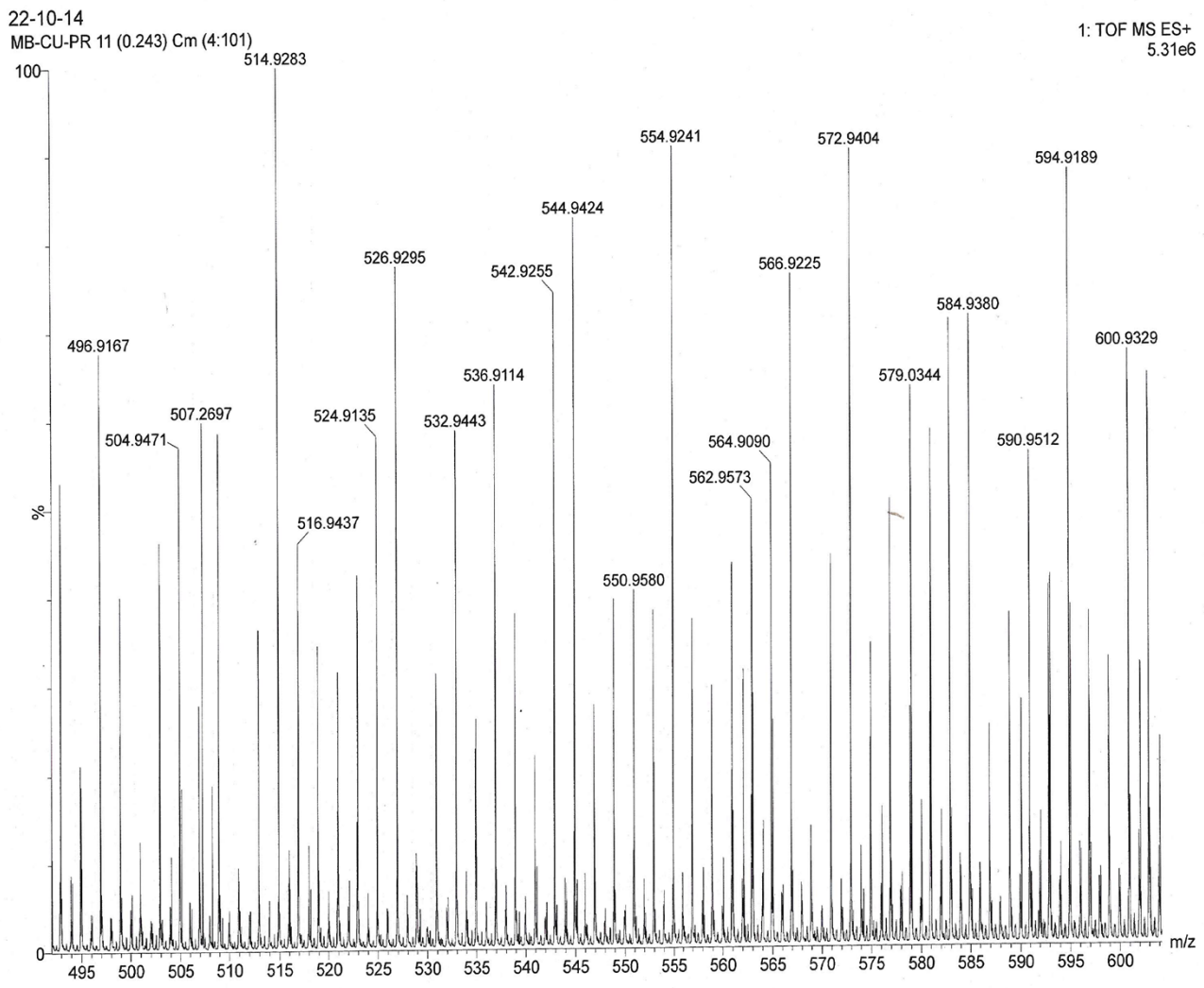


Fig. S12 ESI mass spectrum (positive ion mode) of complex **2** in aqueous solution at pH~10.5.