Figure S1. Molecular view of (a) **1** and (b) **2** showing the details of the co-ordination around Cu(II) ions.
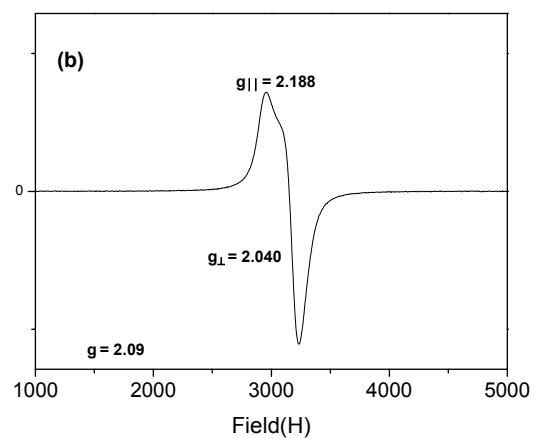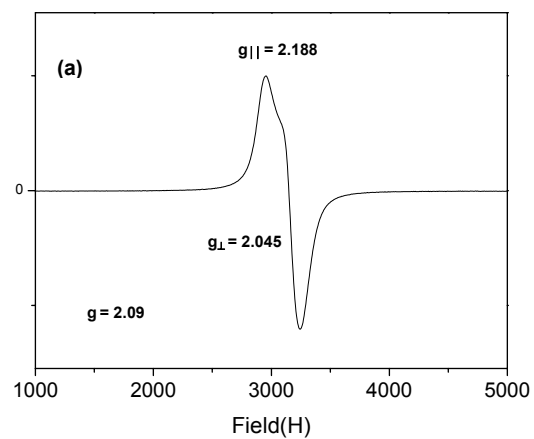
Figure S2. Room temperature EPR spectra of (a) **1** and (b) **2.** The g value is equal to 2.09 for both compounds.
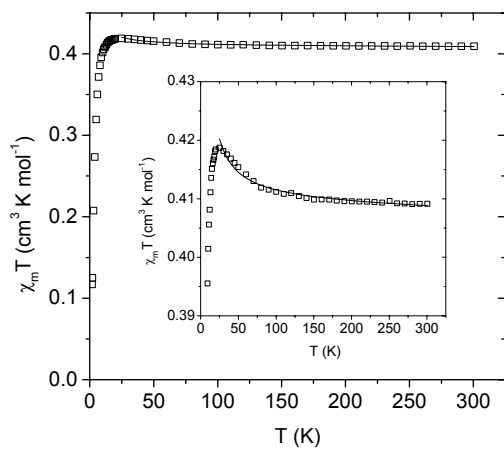
Figure S3. Plot of $\chi_m T$ vs. T for **2** at a magnetic field of 1 T. The solid line shows the best theoretical fit based on an infinite chain model. The inset denotes the enlarged plot of $\chi_m T$ vs. T for **2**.
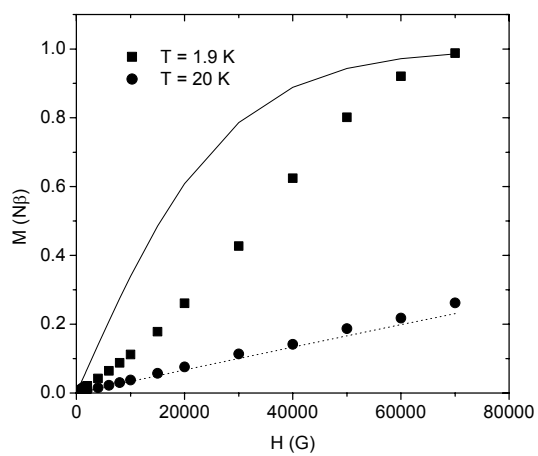
Figure S4. Field dependence of magnetization for **2**. The solid and dotted lines represent the Brillouin curves for a noninteracting Cu(II) ion at 1.9 and 20 K, respectively.
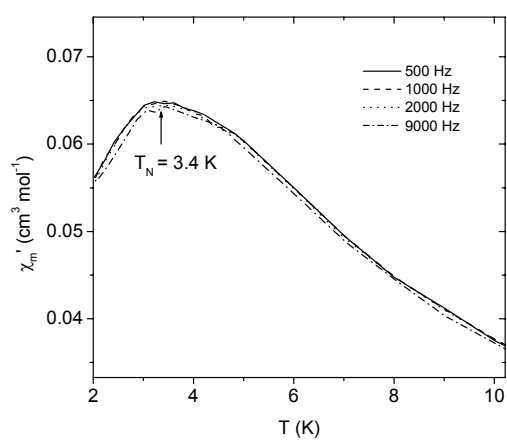
Figure S5. Temperature dependence of real component of ac susceptibility in zero applied static field with an oscillating field of 10 G at various frequencies for **1**. The arrow indicates the temperature of an antiferromagnetic ordering.
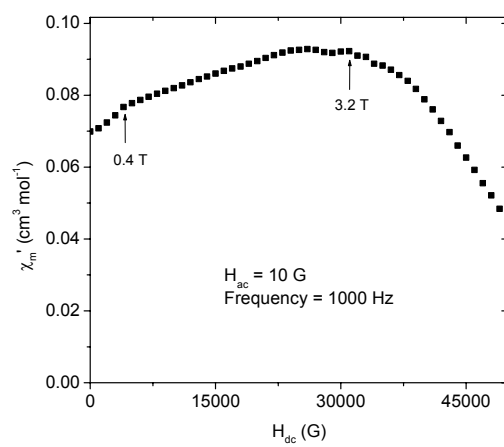
Figure S6. Field dependence of real component of ac susceptibility for **1** at 1.9 K.