

Supplementary information

Fig. S1. Plot of μ_{mol} as a function of temperature for **4** (the solid line is calculated with $g = 2.102(3)$, $J = 7.2(5) \text{ cm}^{-1}$, $\theta = -0.2 \text{ K}$, $\text{TIP} = 250 \cdot 10^{-6} \text{ cm}^3 \text{ mol}^{-1}$, $\rho = 0$ ($10^2 R = 0.44$)).

Fig. S2. Plot of M/H for **4** at 2K (the solid line is calculated from the appropriate Brillouin function with $g = 2.08$, $T = 2\text{K}$, $S' = 2$).

Fig. S3. Plot of μ_{mol} as a function of temperature for **6** (the solid line is calculated with $g = 2.015$, $J = -2.65 \text{ cm}^{-1}$, $\rho = 0.0001$, $\text{TIP} = 0 \text{ cm}^3 \text{ mol}^{-1}$ ($10^2 R = 0.44$)).

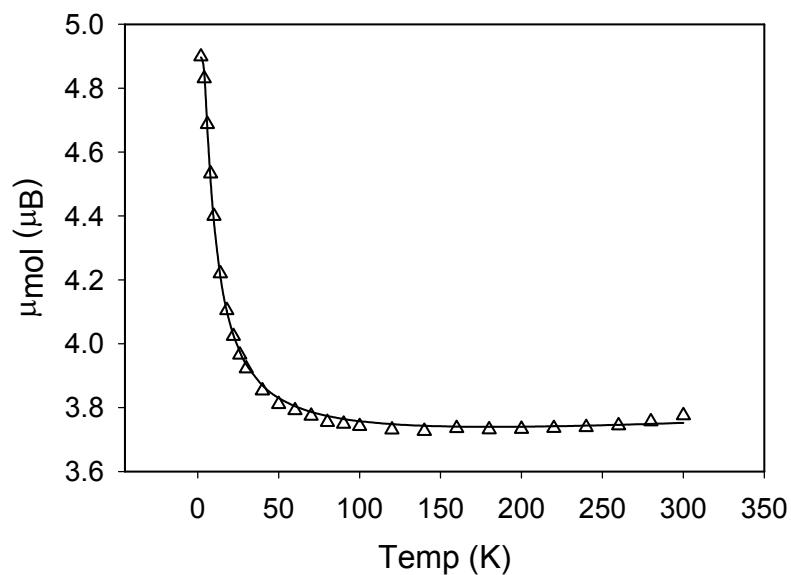


Fig. S1

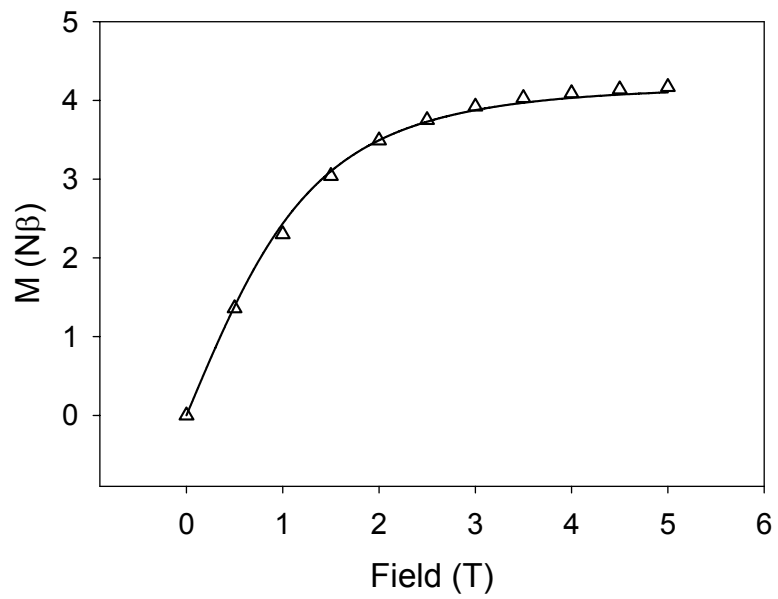


Fig. S2

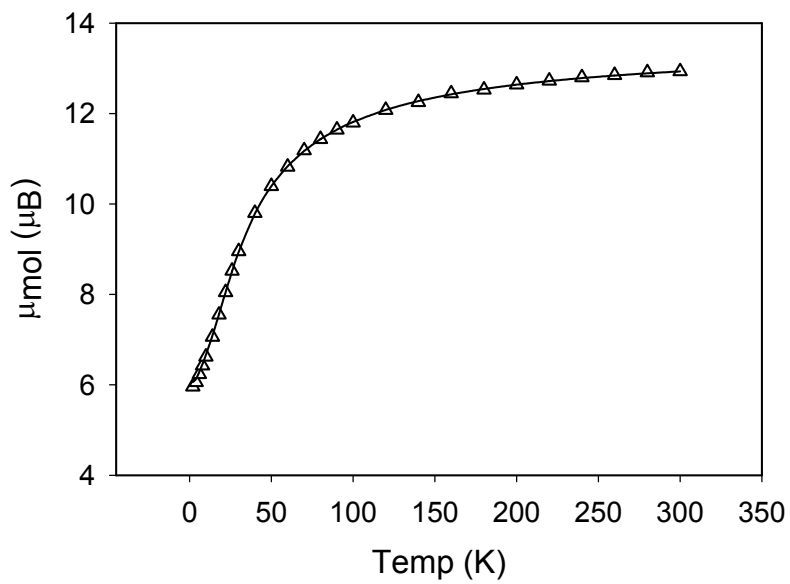


Fig. S3