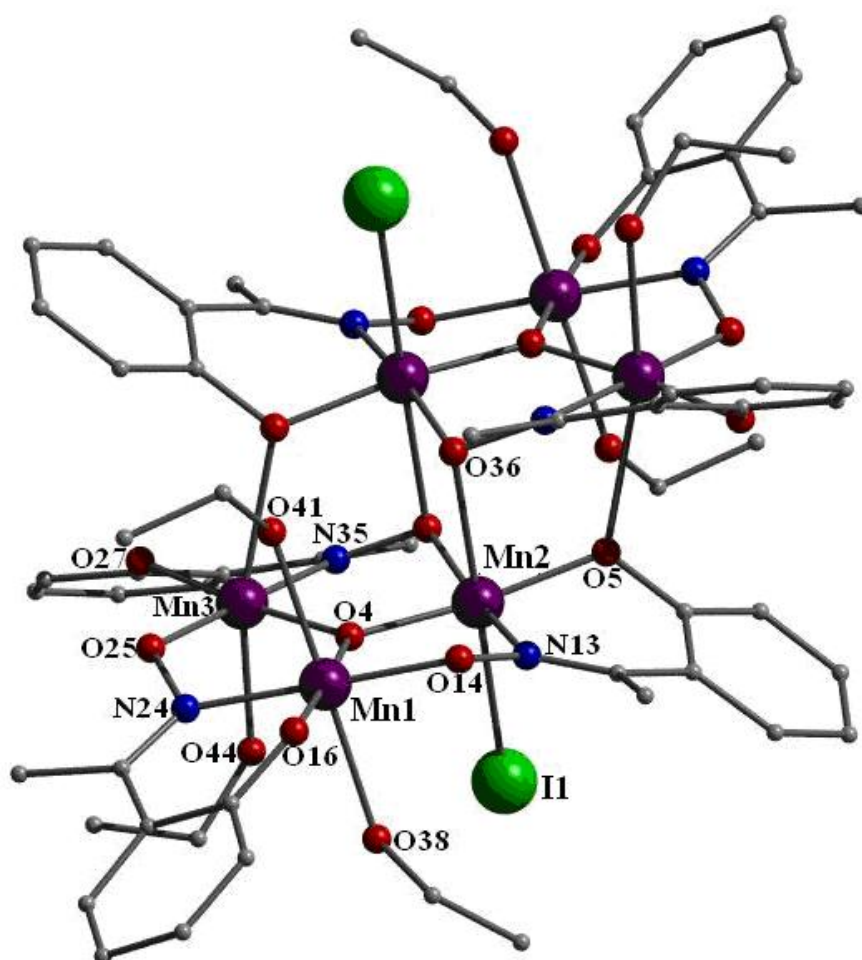


Electronic Supplementary Information

New Structural Types and Different Oxidation Levels in the
Family of Mn₆-oxime Single-molecule Magnets

Leigh F. Jones,^a Ross Inglis,^a Kevin Mason,^a Martyn E. Cochrane,^a Anna Collins,^a
Simon Parsons,^a Spyros P. Perlepes^b and Euan K. Brechin^{*a}



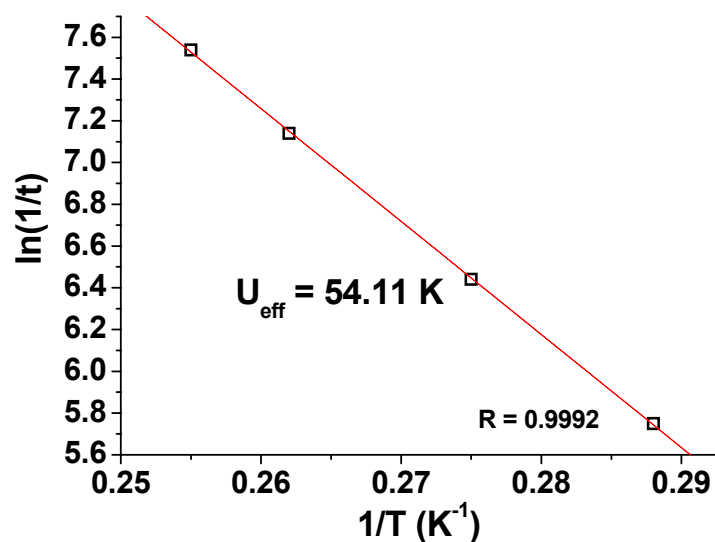


Figure SI2 Arrhenius plot obtained from the out-of-phase data of **1**. The slope gradient gives the U_{eff} barrier = 54.11 K. $\tau_0 = 5.45 \times 10^{-10} \text{ s}^{-1}$.

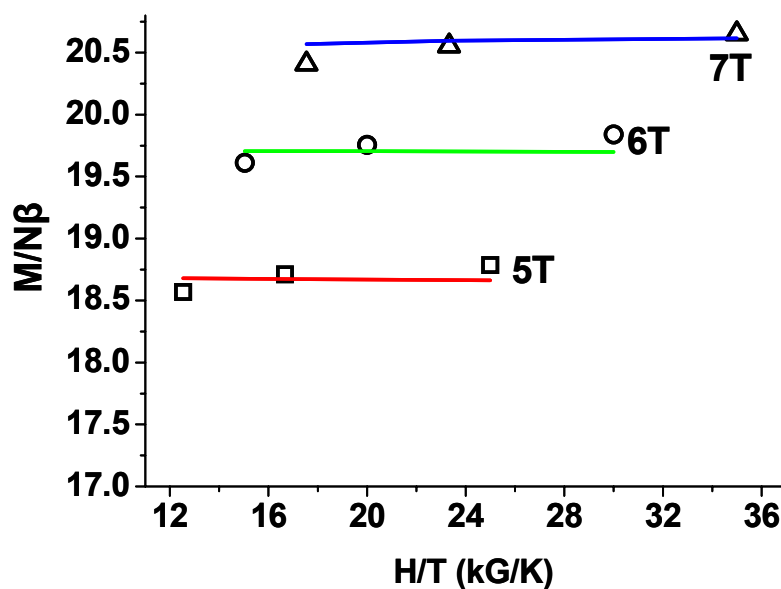


Figure SI3 Plot of reduced magnetization ($M/N\beta$) vs. H/T for **2** in fields 5, 6 and 7 T and temperatures 2 - 4 K to give the spin Hamiltonian parameters noted inset.

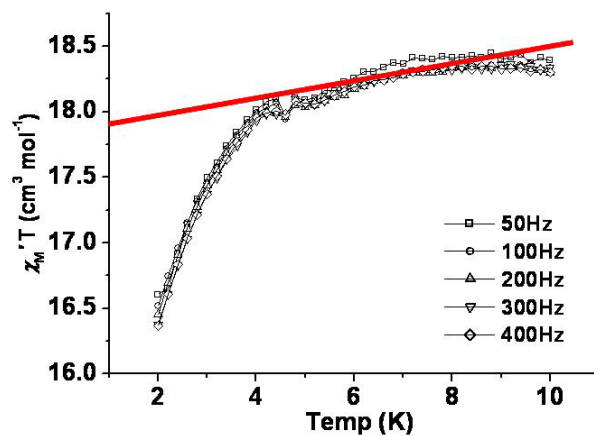


Figure SI4 Plot of $\chi_m' T$ vs. T obtained from **3** in an oscillating field of 3.5G and frequencies of 50, 100, 200, 300 and 400Hz.