Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Table S1 Selected bond length Å and angles (°) for complexes **1** and **2**

Complex **1**			
Dy(1)–O(1)	2.242(3)	Dy(1)–O(3)	2.250(3)
Dy(1)–O(7)	2.427(4)	Dy(1)–O(8)	2.429(4)
Dy(1)–O(10)	2.449(3)	Dy(1)–O(13)	2.460(4)
Dy(1)–O(5)	2.503(4)	Dy(1)–O(2)	2.606(3)
Dy(1)–O(11)	2.690(4)	Dy(1)–O(4)	2.804(3)
O(1)-Dy(1)-O(3)	88.73(12)	O(1)-Dy(1)-O(7)	103.32(13)
O(3)-Dy(1)-O(7)	114.57(12)	O(1)-Dy(1)-O(8)	143.27(14)
O(3)-Dy(1)-O(8)	81.65(12)	O(7)-Dy(1)-O(8)	112.95(14)
O(1)-Dy(1)-O(10)	138.24(12)	O(3)-Dy(1)-O(10)	130.71(12)
O(7)-Dy(1)-O(10)	75.05(13)	O(8)-Dy(1)-O(10)	52.53(12)
O(1)-Dy(1)-O(13)	79.43(14)	O(3)-Dy(1)-O(13)	114.97(13)
O(7)-Dy(1)-O(13)	130.43(13)	O(8)-Dy(1)-O(13)	72.95(14)
O(10)-Dy(1)-O(13)	71.94(12)	O(1)-Dy(1)-O(5)	137.98(14)
Complex **2**			
Dy(1)–O(5)	2.253(13)	Dy(1)–O(3)	2.287(13)
Dy(1)–O(1)	2.345(13)	Dy(1)–O(15)	2.516(13)
Dy(1)–O(11)	2.514(13)	Dy(1)–O(14)	2.553(15)
Dy(1)–O(12)	2.547(16)	Dy(1)–O(17)	2.609(17)
Dy(1)–O(9)	2.616(16)	Dy(2)–O(4)	2.277(14)
Dy(2)–O(2)	2.315(13)	Dy(2)–O(7)	2.341(15)
Dy(2)–O(18)	2.427(14)	Dy(2)–O(21)	2.535(12)
Dy(2)–O(24)	2.544(14)	Dy(2)–O(20)	2.535(12)
Dy(2)–O(26)	2.572(15)	Dy(2)–O(23)	2.594(14)
O(5)-Dy(1)-O(1)	84.6(5)	O(3)-Dy(1)-O(1)	83.9(5)
O(5)-Dy(1)-O(15)	153.1(5)	O(3)-Dy(1)-O(15)	85.4(5)
O(1)-Dy(1)-O(15)	119.7(5)	O(5)-Dy(1)-O(11)	122.0(5)
O(3)-Dy(1)-O(11)	142.8(5)	O(1)-Dy(1)-O(11)	75.8(5)
O(15)-Dy(1)-O(11)	78.3(5)	O(5)-Dy(1)-O(14)	80.1(5)
O(4)-Dy(2)-O(2)	83.6(5)	O(4)-Dy(2)-O(7)	84.5(6)
O(2)-Dy(2)-O(7)	87.2(6)	O(4)-Dy(2)-O(18)	120.6(5)
O(2)-Dy(2)-O(18)	85.7(6)	O(7)-Dy(2)-O(18)	152.8(5)
O(4)-Dy(2)-O(21)	79.4(5)	O(2)-Dy(2)-O(21)	146.5(5)
O(7)-Dy(2)-O(21)	119.3(5)	O(18)-Dy(2)-O(21)	78.5(5)

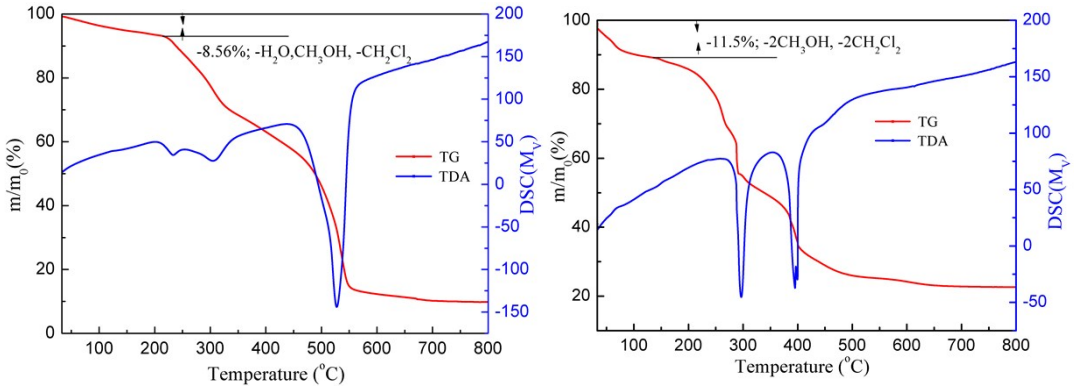

Figure S1 Thermogravimetric curve for complexes **1** (left) and **2**(right).

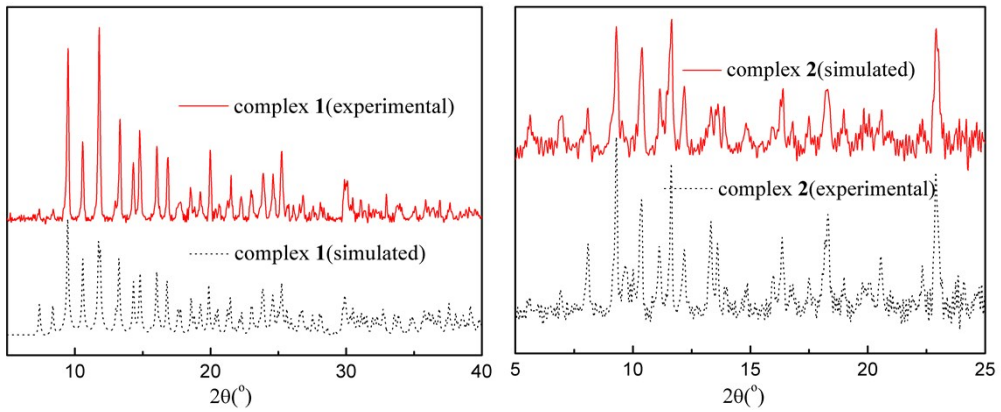

Figure S2 X-ray powder diffraction patterns of simulated and experimental for **1**(left) and **2** (right).

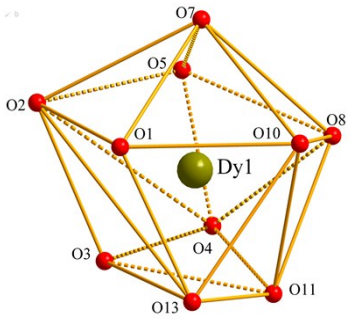

Figure S3 Terminal coordination modes of **1**. (All hydrogen atoms are omitted for clarity)

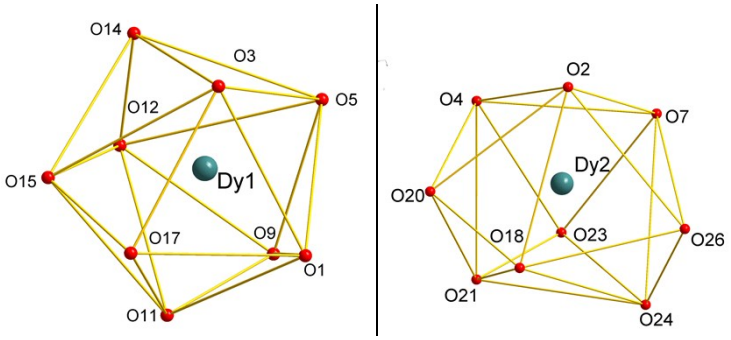

Figure S4 Terminal coordination modes of **2**. (All hydrogen atoms are omitted for clarity)

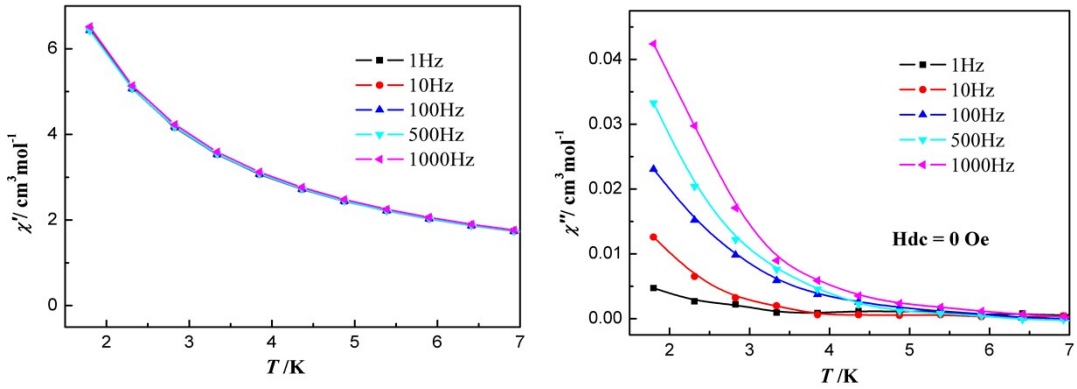

Figure S5 Temperature dependence of the in-phase (χ′) and out-of-phase (χ″) ac susceptibility of **1** at 0 Oe in the frequency range 1–1000 Hz at 2–7 K.

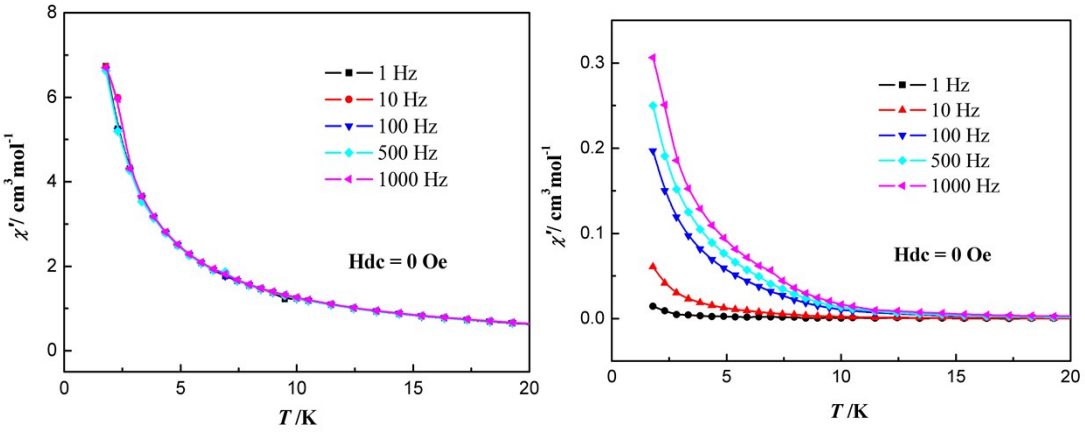

Figure S6 Temperature dependence of the in-phase (χ′) and out-of-phase (χ″) ac

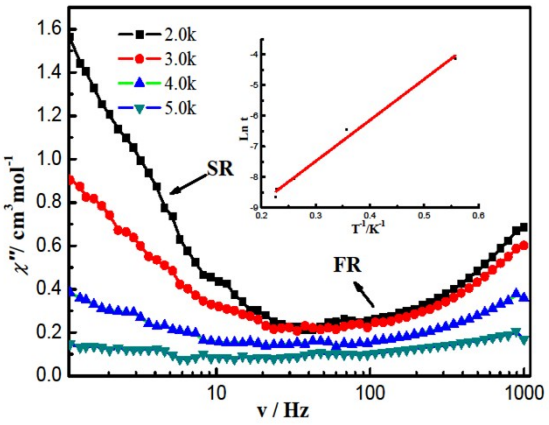

Figure S7 Frequency dependence of out-of-phase (χ′) ac susceptibility of complex **1** under 2000 Oe in the temperature range 2–6 K.