

Figure S1

(a) A partial view, down (001), of the structure of $\text{Sc}(\text{O}_3\text{SCF}_3)_3 \cdot 8\text{H}_2\text{O}$ with the CF_3 groups coloured black in order to highlight their association;

(b) A similar view of the structure of $\text{Nd}(\text{O}_3\text{SCF}_3)_3 \cdot 9\text{H}_2\text{O}$

