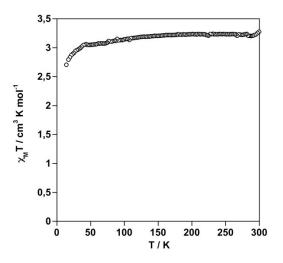
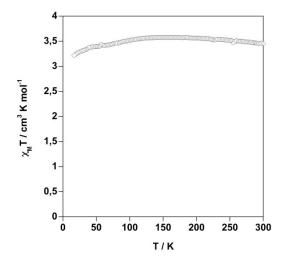
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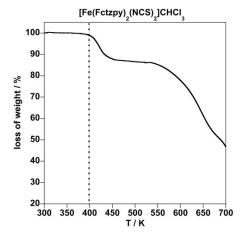
## **Supporting Information**

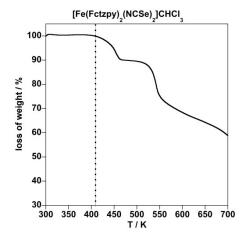
Figure S1. Magnetic behaviour of the unsolvated forms of 1 (left) and 2 (right). Desolvated samples were synthesised by heating respectively 1 and 2 at 420 K and 450 K for 3 h.





**Figure** S2. TGA plot for [Fe(Fctzpy)<sub>2</sub>(NCS)<sub>2</sub>]·CHCl<sub>3</sub> (1) and [Fe(Fctzpy)<sub>2</sub>(NCSe)<sub>2</sub>]·CHCl<sub>3</sub> (2). Dotted lines denote the limit of thermal stability (ca 400 K) of the solvated forms of 1 and 2.





**Figure** S3. Intermolecular contacts between adjacent complex molecules. Red lines correspond to contacts smaller than 3.650~Å.

