

## Supporting Information for

### Coordination polymers based on pyrazole-4-carboxaldehyde-containing $\text{Cu}_3\text{N}_6$ metallacycles as building units

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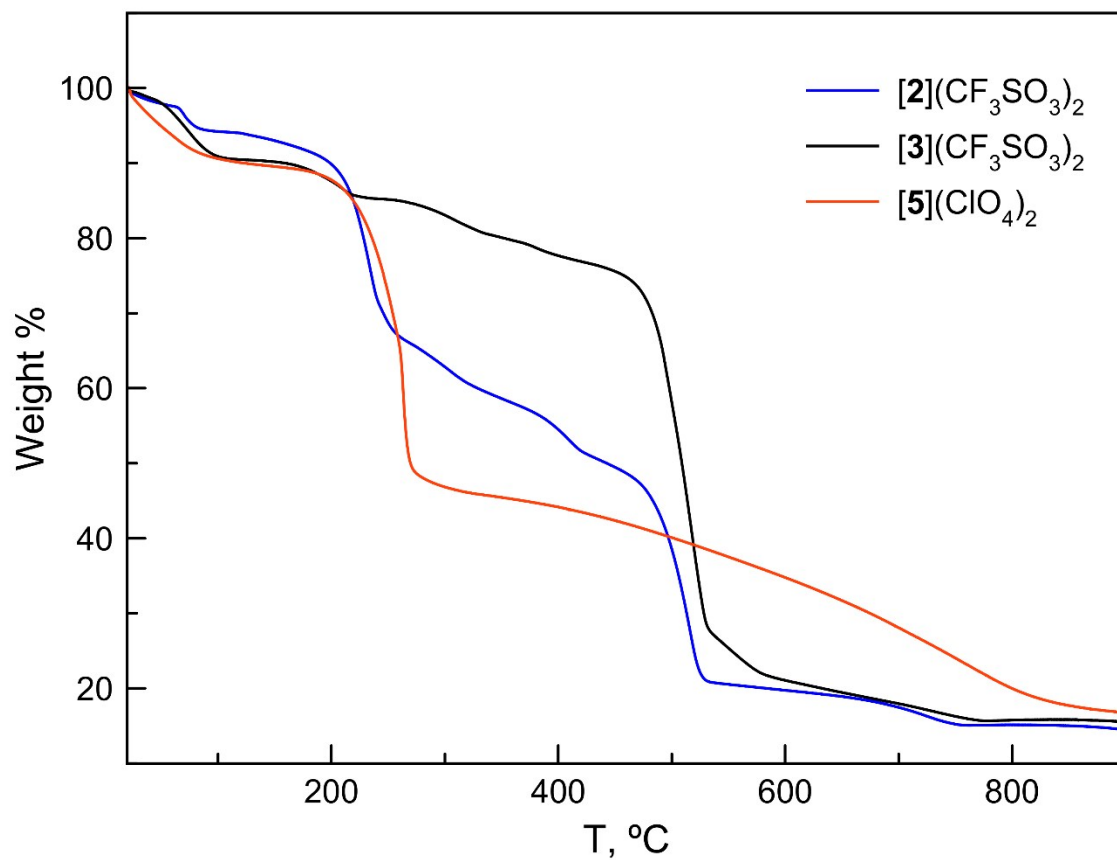


Figure S1. TGA of [2](CF<sub>3</sub>SO<sub>3</sub>)<sub>2</sub> (blue), [3](CF<sub>3</sub>SO<sub>3</sub>)<sub>2</sub> (black) and [5](ClO<sub>4</sub>)<sub>2</sub> (red).

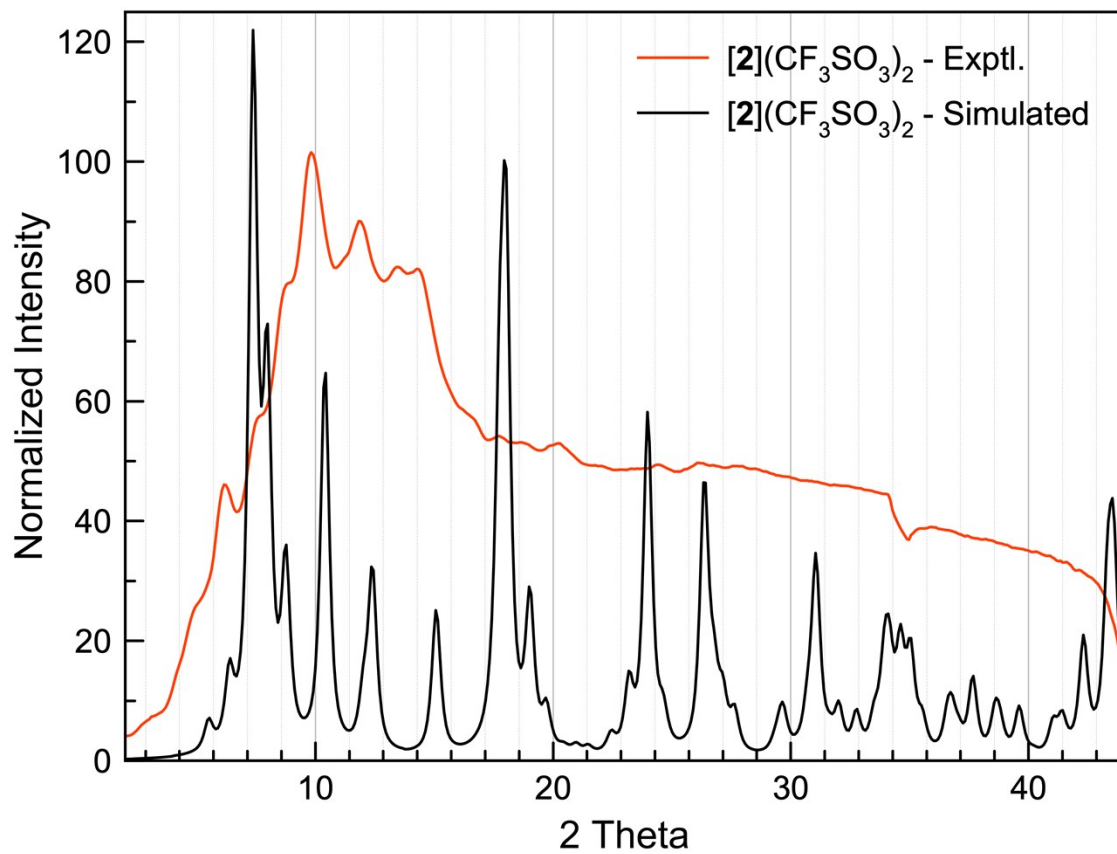
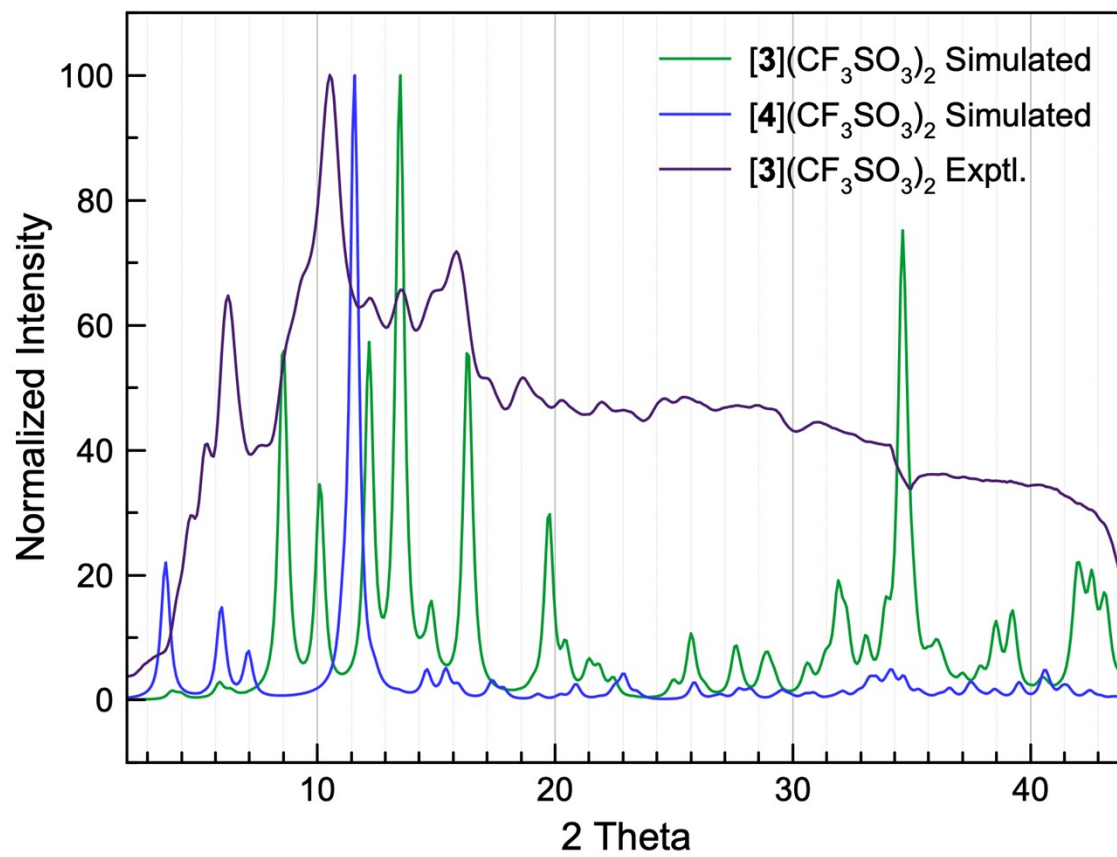


Figure S2. Powder pattern of  $[2](CF_3SO_3)_2$  (red- experimental; black- simulated).



**Figure S3.** Powder pattern of  $[3](CF_3SO_3)_2$  (purple- experimental; green- simulated) and impurities  $[4](CF_3SO_3)_2$ - simulated (blue).

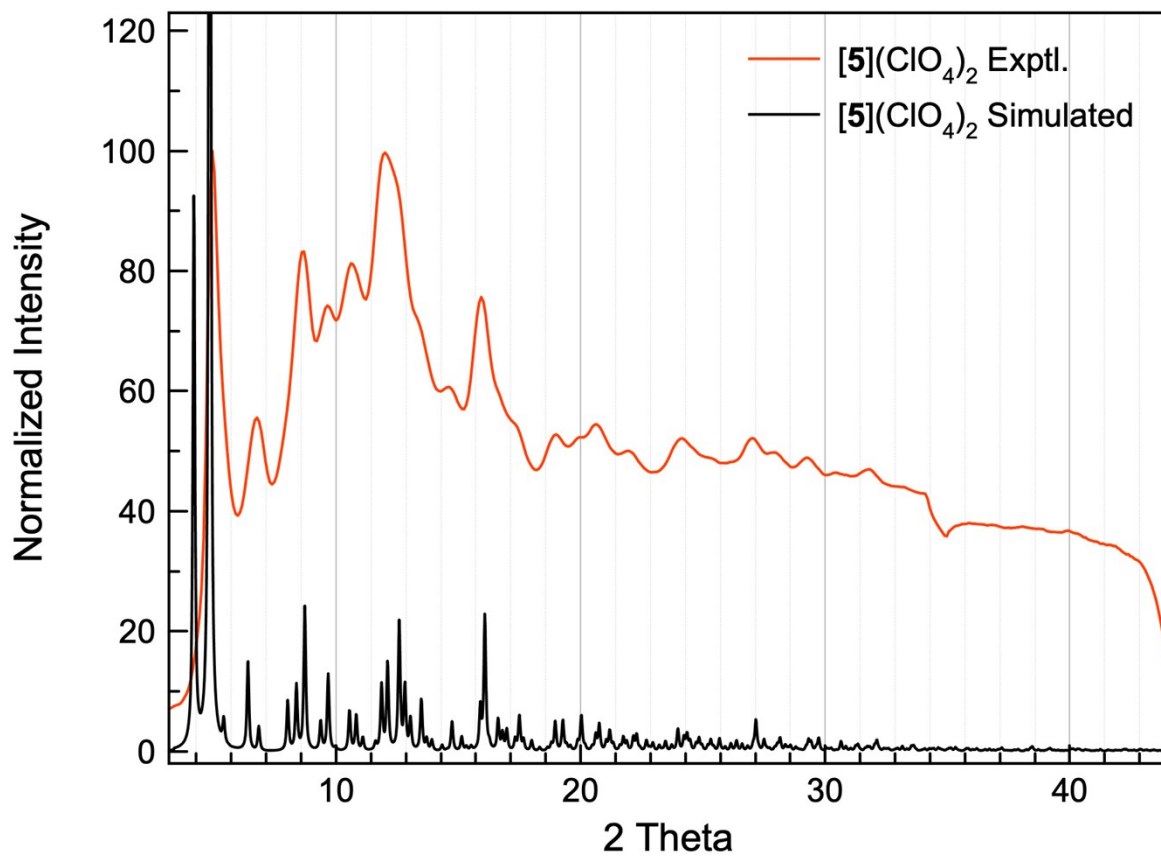


Figure S4. Powder pattern of  $[5](\text{ClO}_4)_2$  (red- experimental; black- simulated).

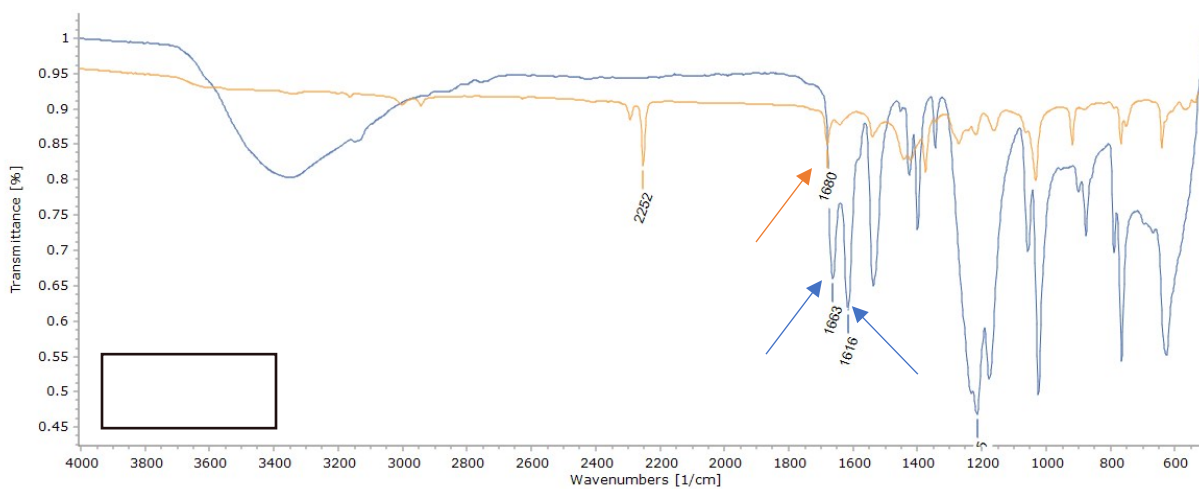


Figure S5. IR of  $[3](\text{CF}_3\text{SO}_3)_2$  before (blue) and after (orange) adding acetonitrile.

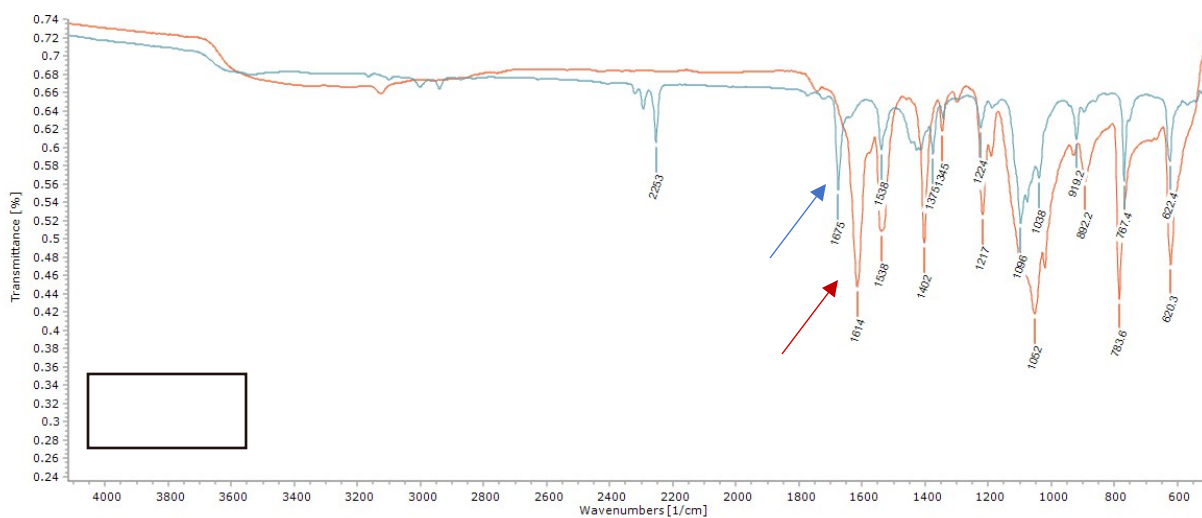


Figure S6. IR of  $[5](\text{ClO}_4)_2$  before (blue) and after (red) adding acetonitrile.

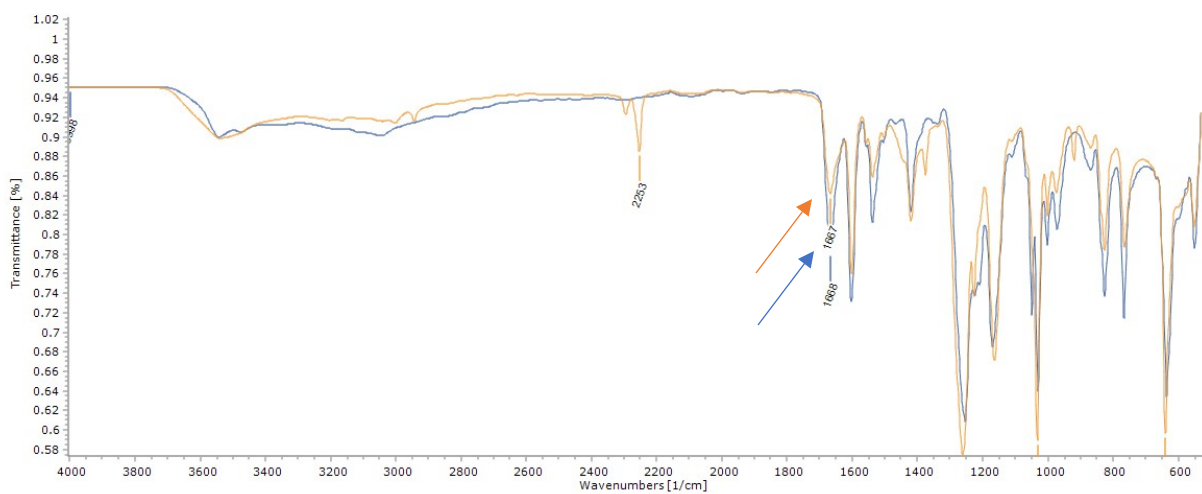
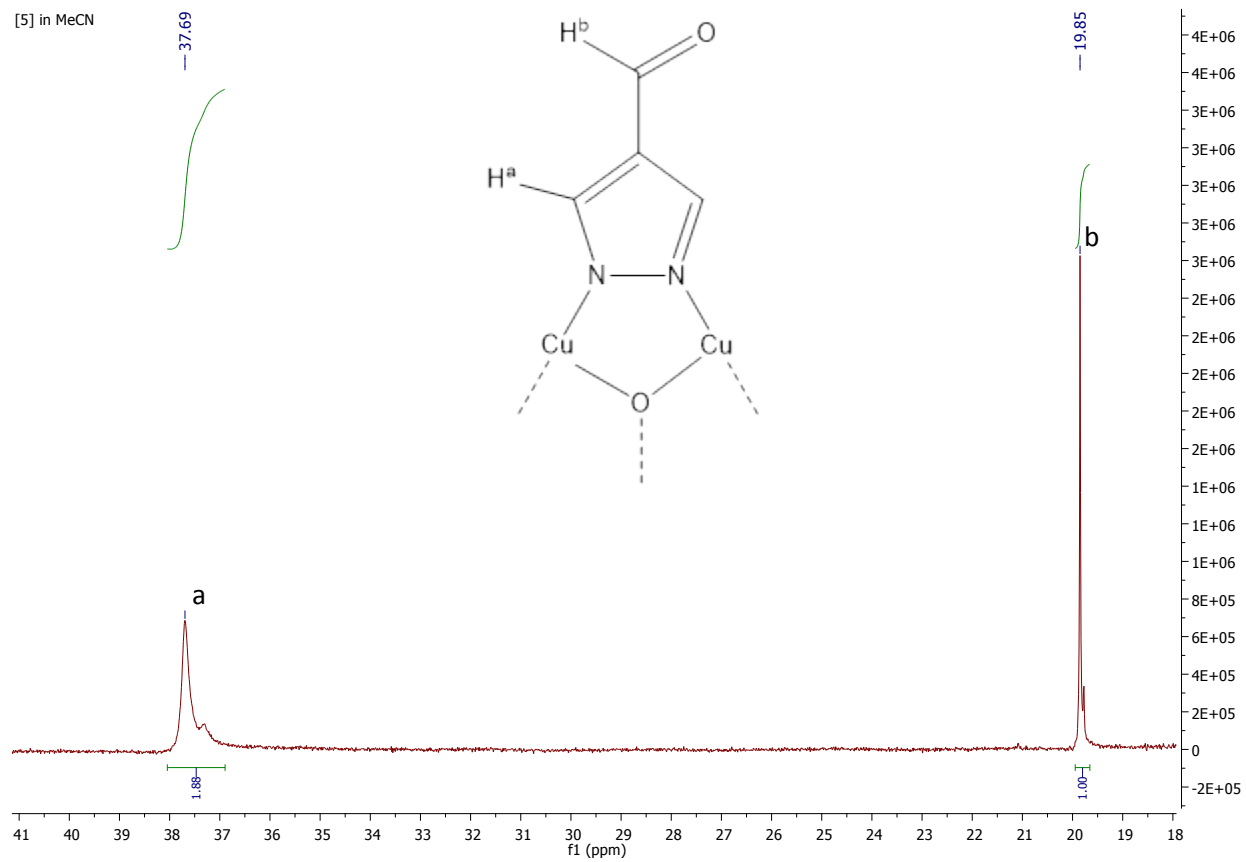


Figure S7. IR of  $[2](\text{CF}_3\text{SO}_3)_2$  before (blue) and after (orange) adding acetonitrile.



**Figure S8.**  $^1\text{H}$  NMR of [5](ClO<sub>4</sub>)<sub>2</sub> in acetonitrile-*d*<sup>3</sup>