

^1H -NMR

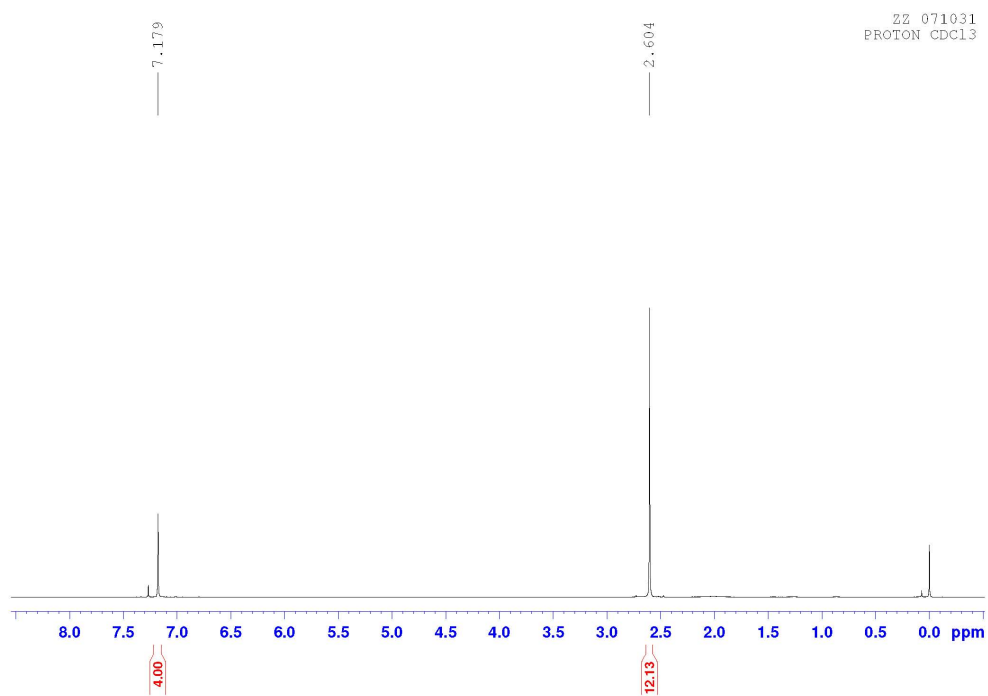


Figure S1. ^1H -NMR of 2,6,2',6'-tetramethyl-4,4'-Bipyridine

Infrared Spectra

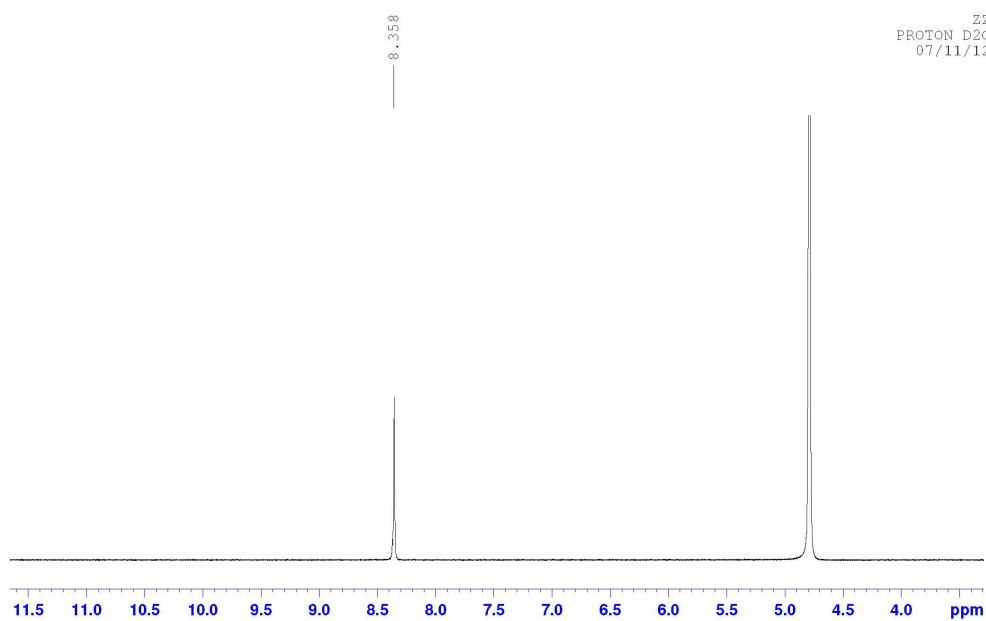
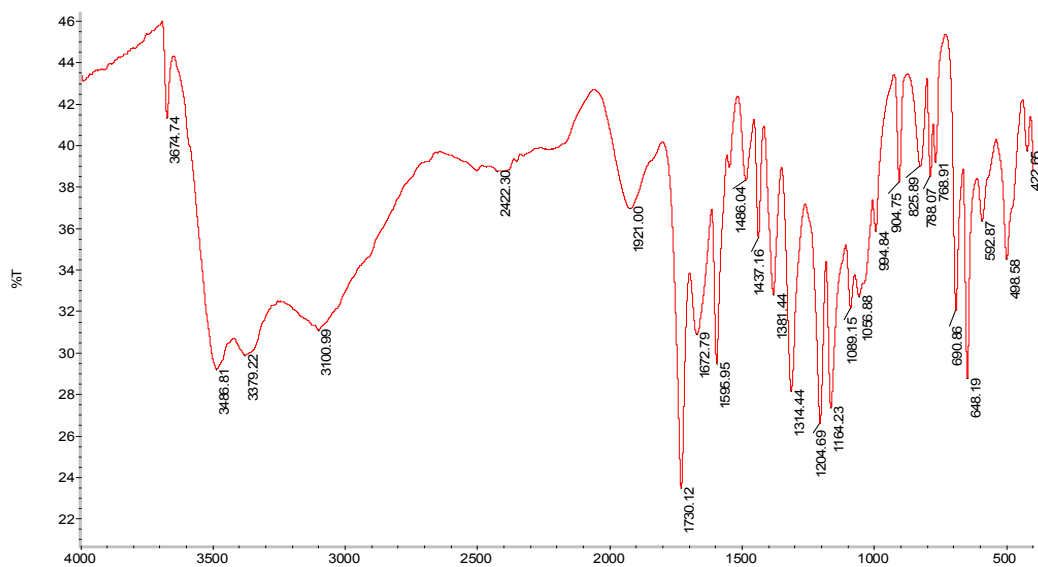


Figure S2. ¹H-NMR of 4,4'-Bipyridine-2,6,2',6'-tetracarboxylic acid

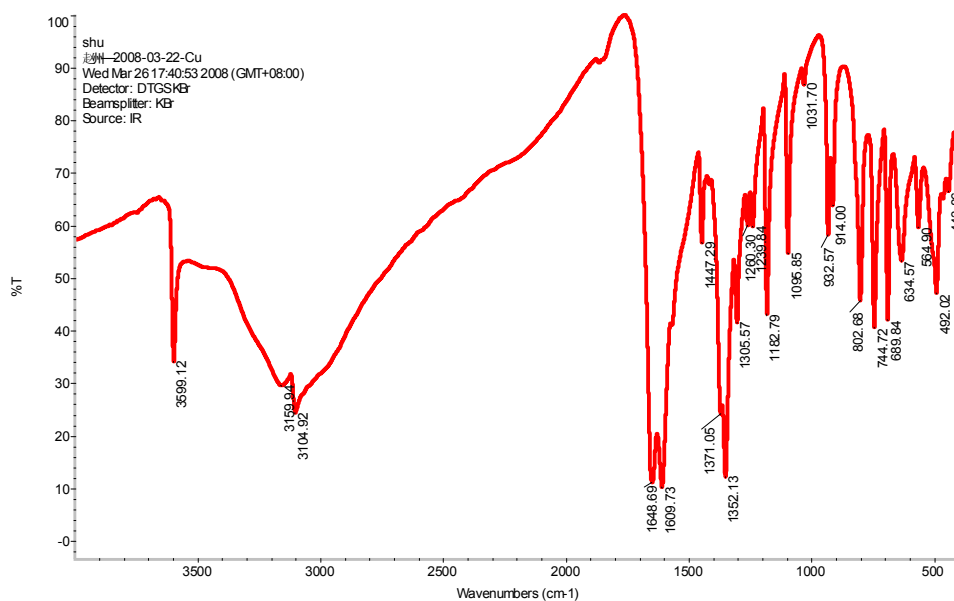


Figure S4. IR spectra of complex 2

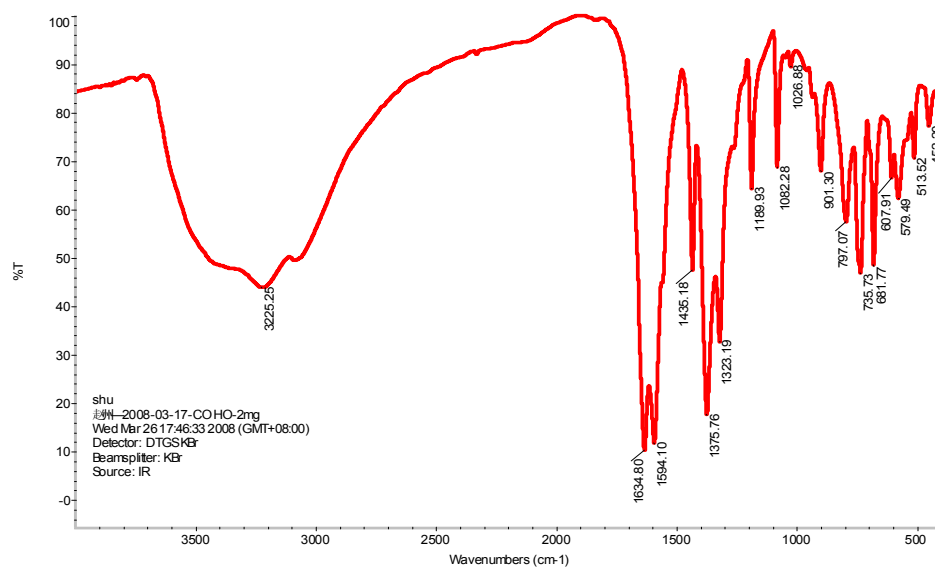


Figure s5. IR spectra of complex 3

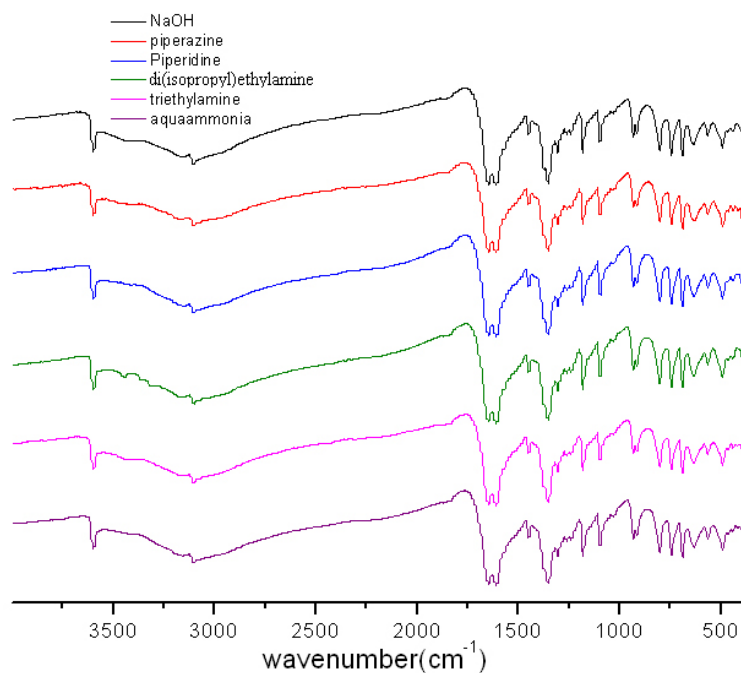


Figure s6. IR spectra of green block-shaped crystals yielded with different bases

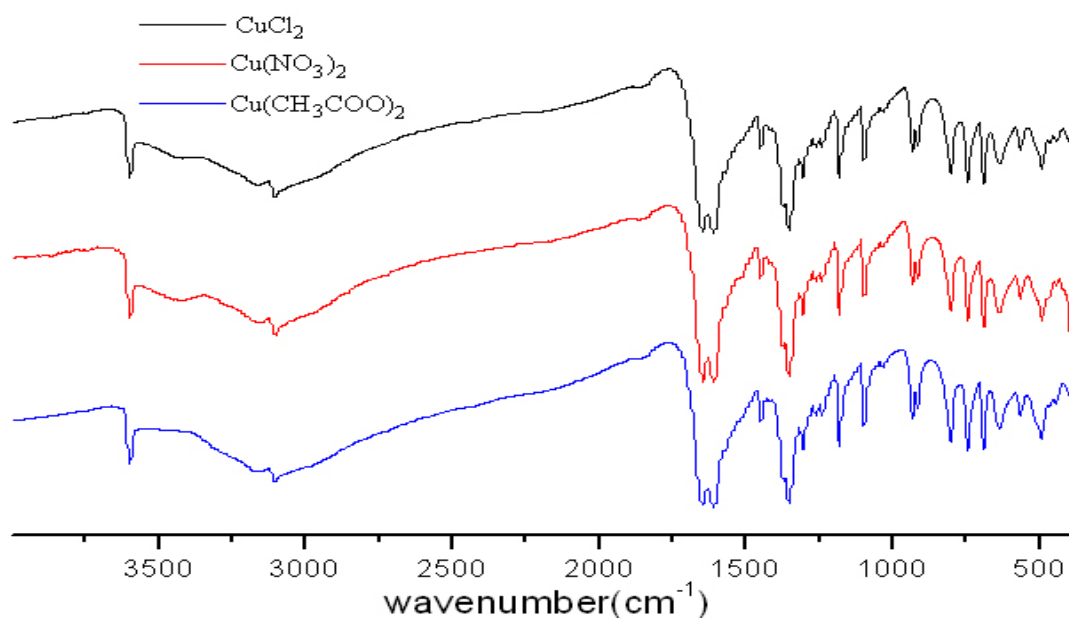


Figure s7. IR spectra of green block-shaped crystals yielded using different CuX_2 ($\text{X} = \text{Cl}, \text{NO}_3, \text{CH}_3\text{COO}$)

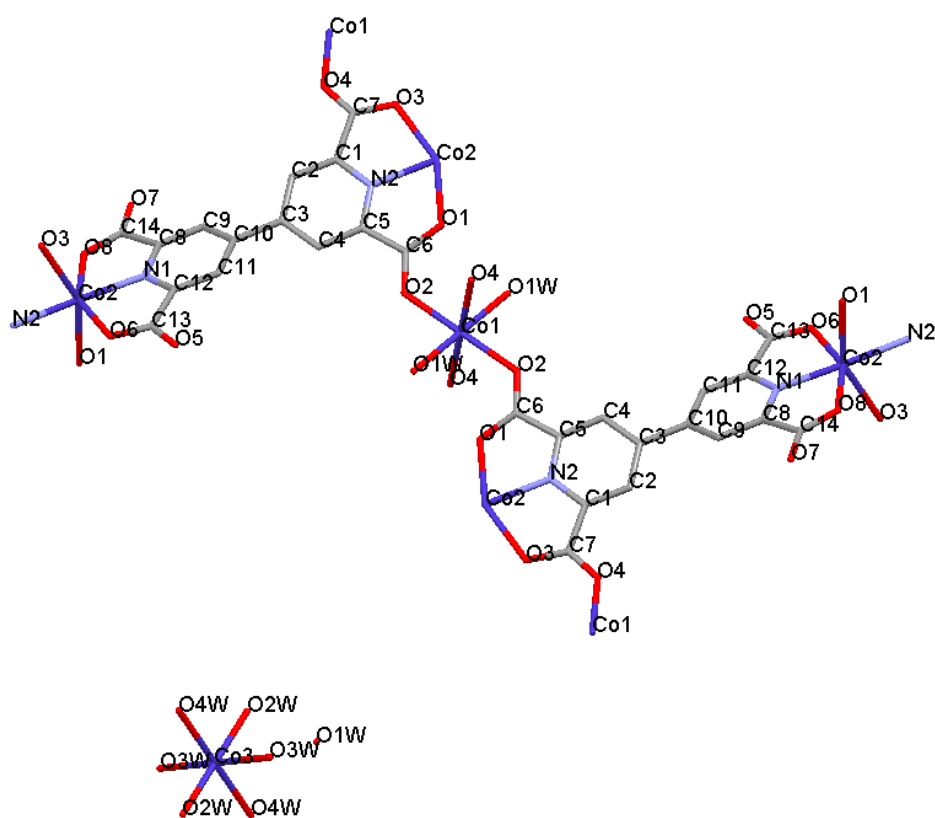


Figure s8 Linkage in complex 3

Thermal analyses

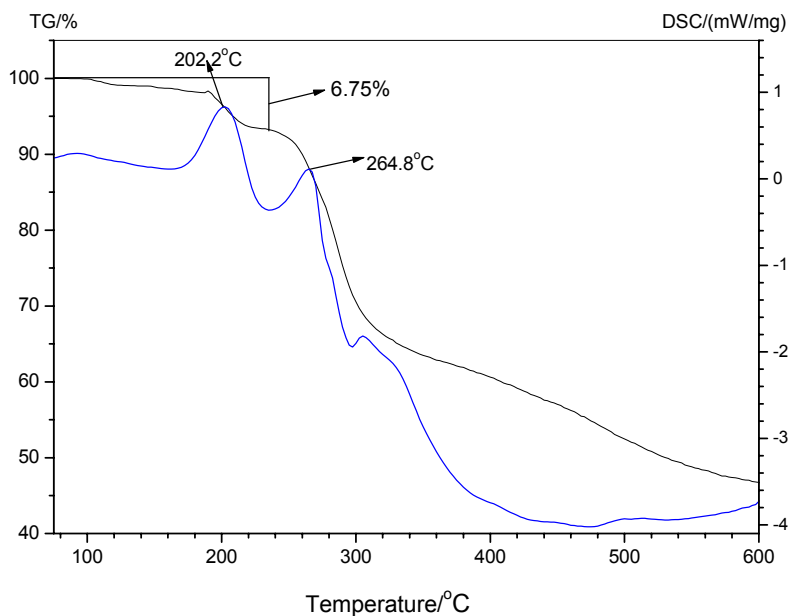


Figure s9. TGA and DSC curves of complex **2**

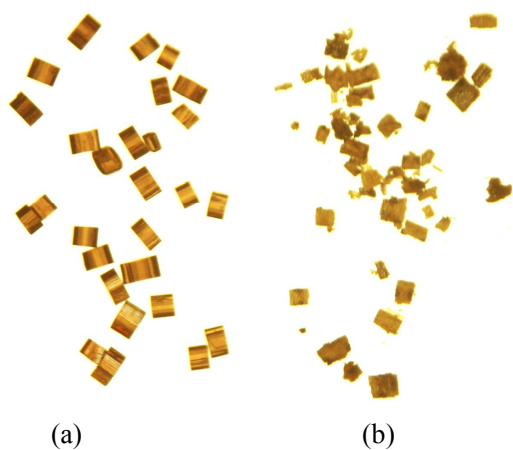


Fig. s10 Crystal appearance of **3** before (a) and after dehydration