

Chemical fixation of CO₂ into Cyclic Carbonates by azo-containing Schiff Bases metal complexes

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Supplemental Materials

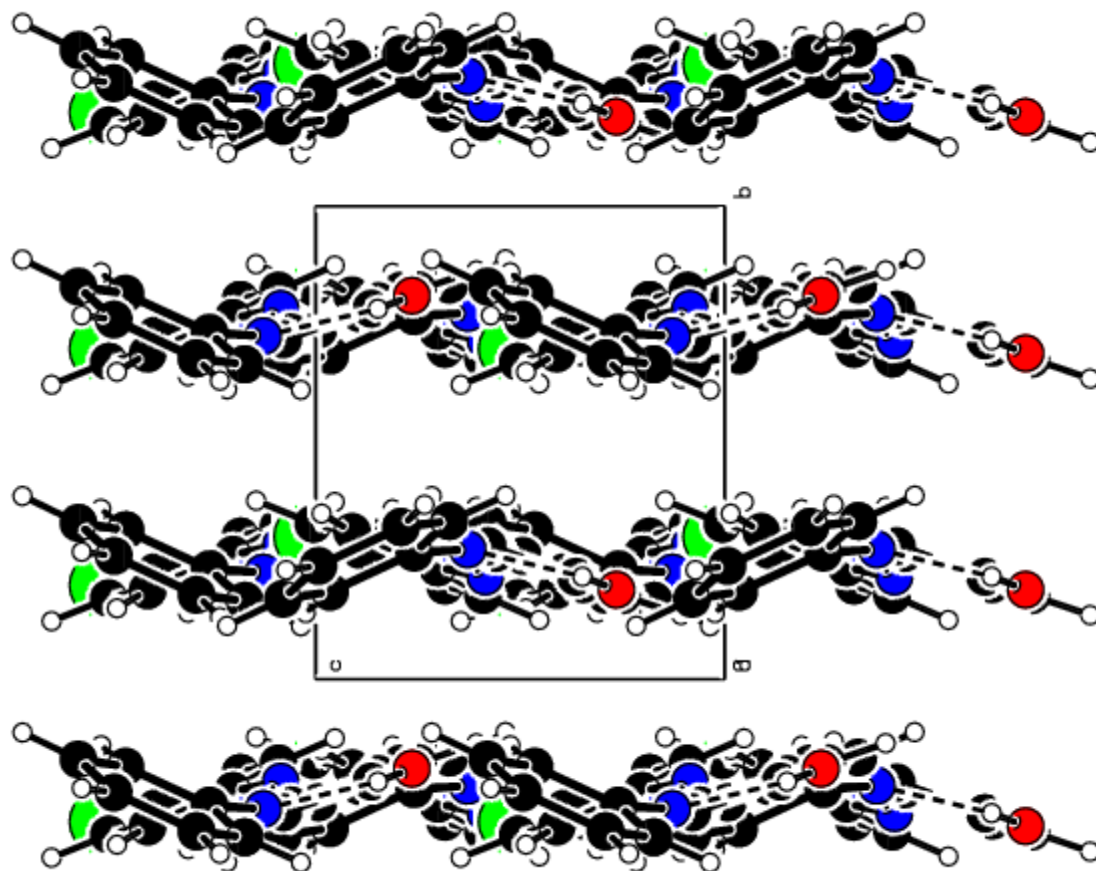


Fig. S1 The crystal packing of the L^1H ligand along the a -axis. Dashed lines indicate the hydrogen-bonding interactions.

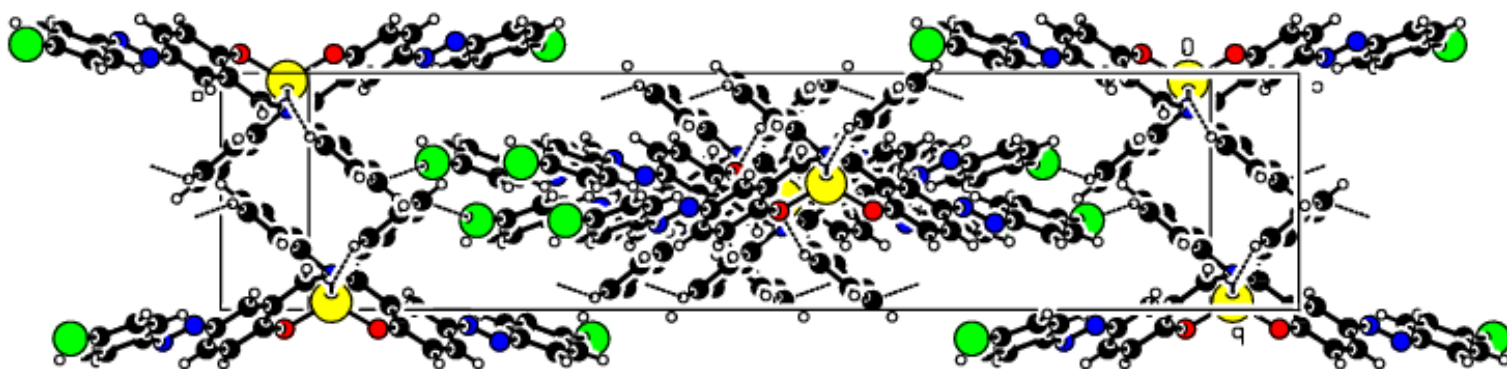
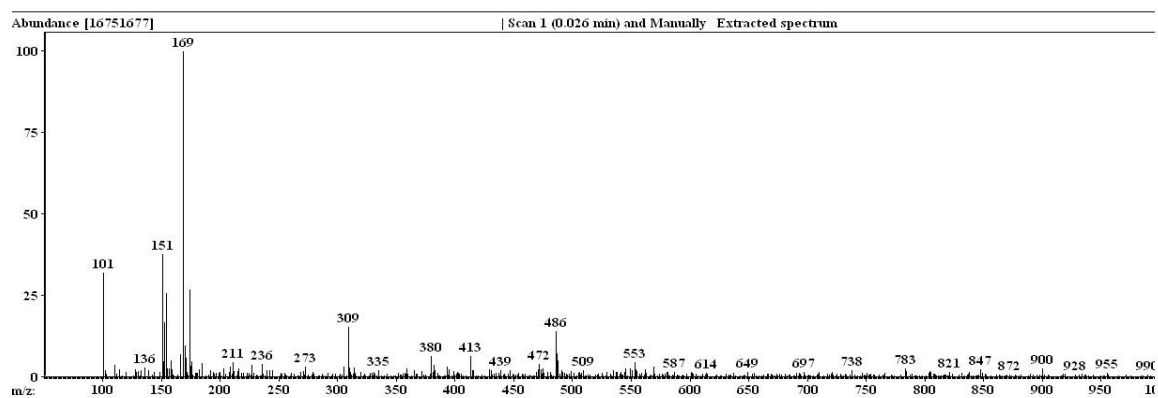
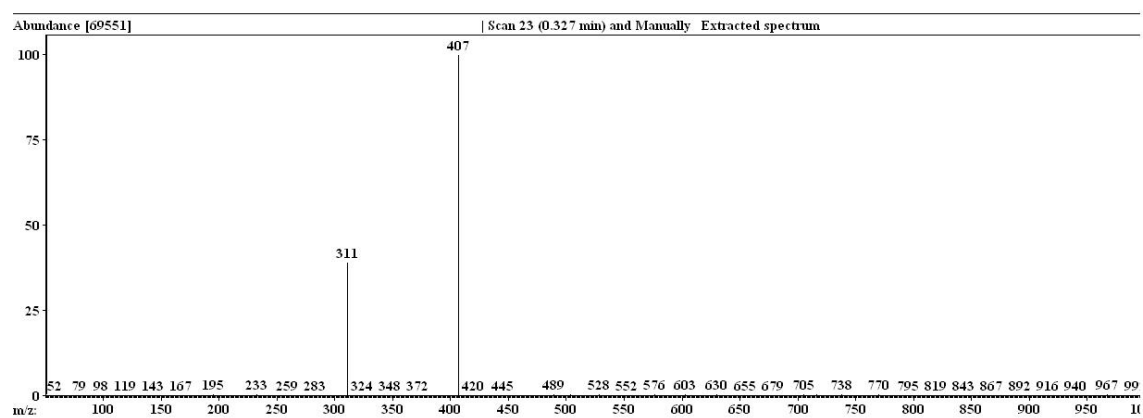


Fig. S2 The crystal packing of the complex $(Zn(L^1)_2)$ along the c -axis. Dashed lines indicate the hydrogen-bonding interactions.



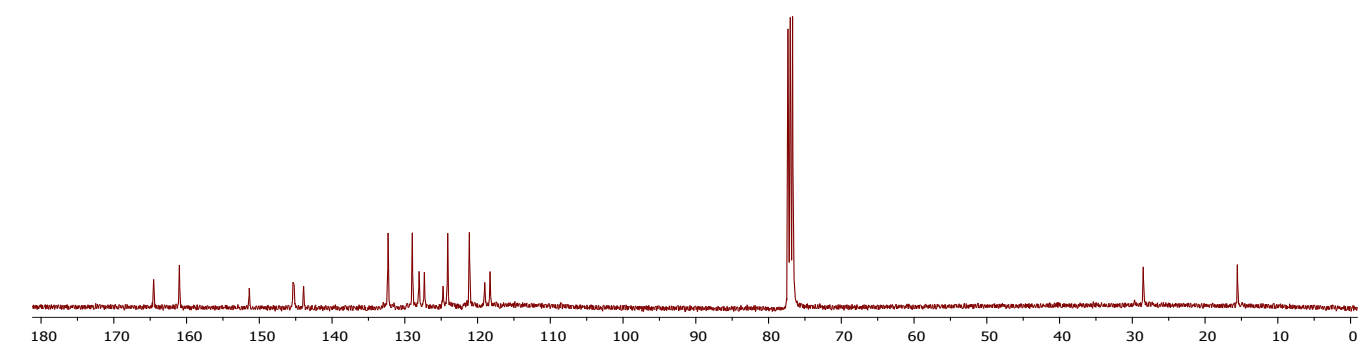
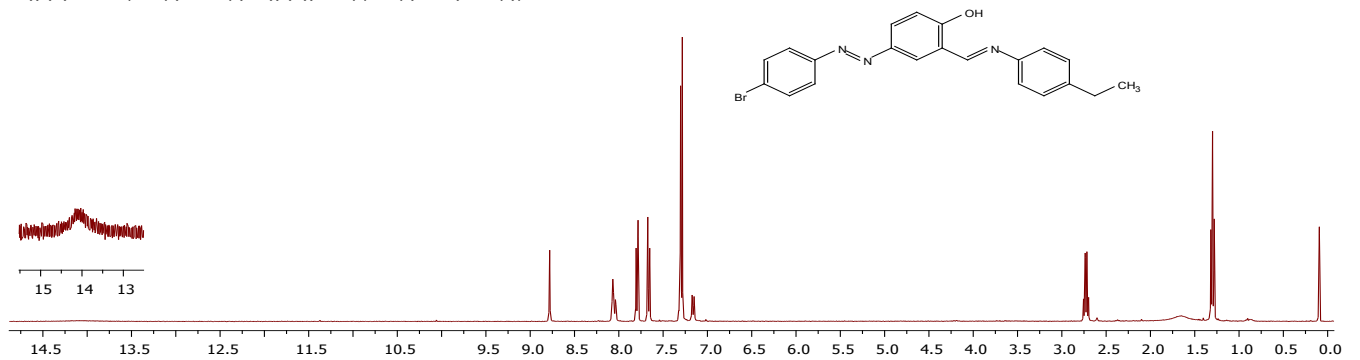
A



B

Fig. S3 The mass spectrum of L¹H (A) and L²H ligand (B)

4-((E)-(4-bromophenyl)diazenyl)-2-((E)-((4-ethylphenyl)imino)methyl)phenol



4-((E)-(4-bromophenyl)diazenyl)-2-((E)-((4-ethylphenyl)imino)methyl)phenol

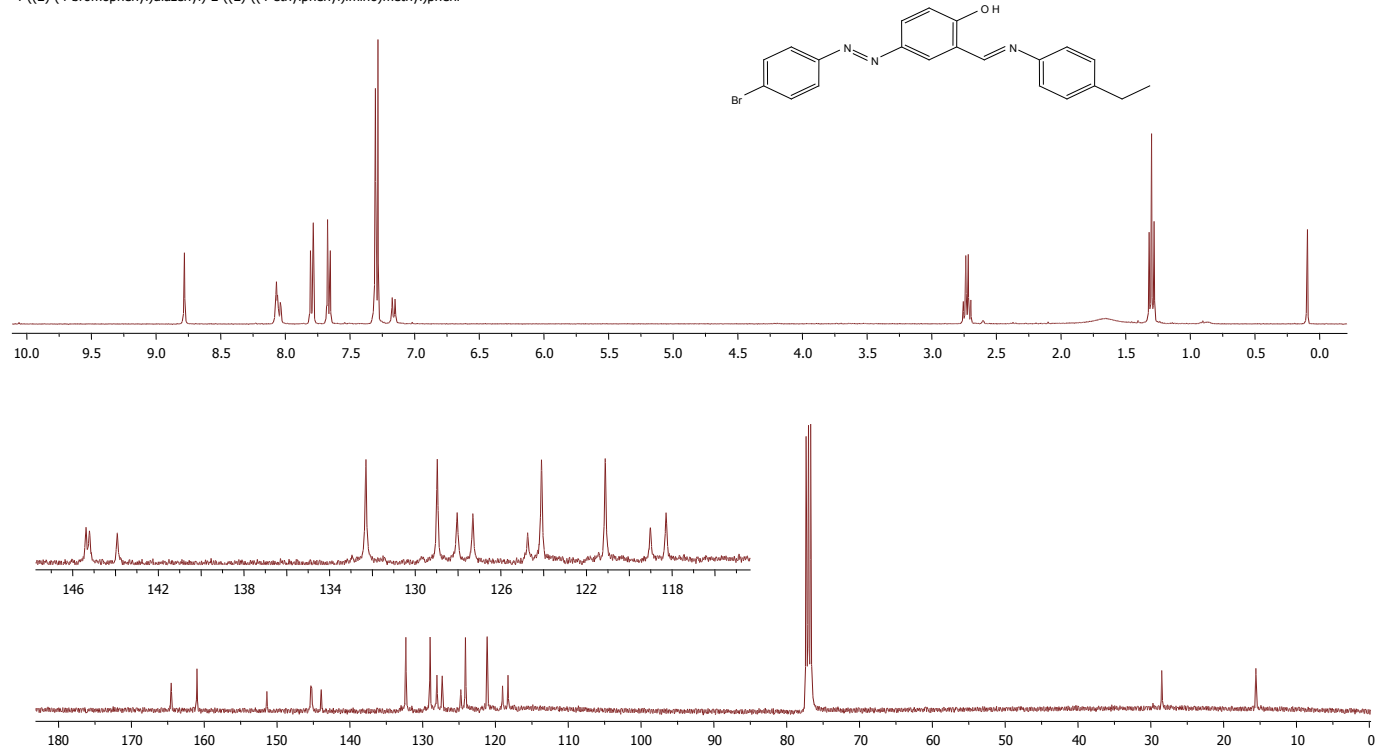
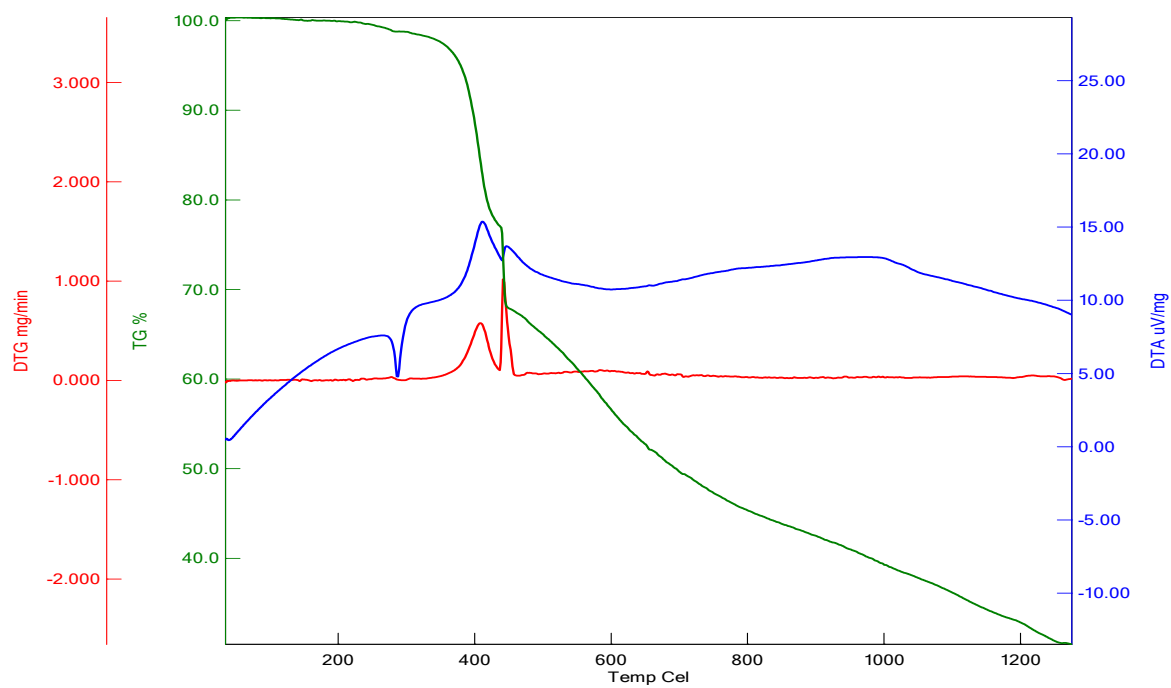
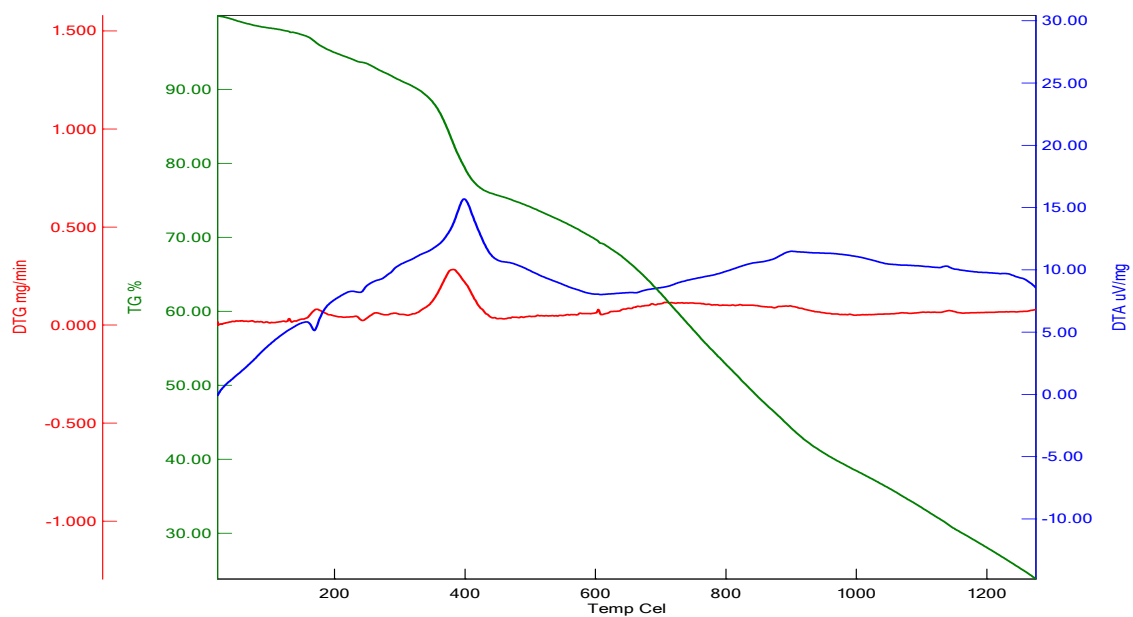


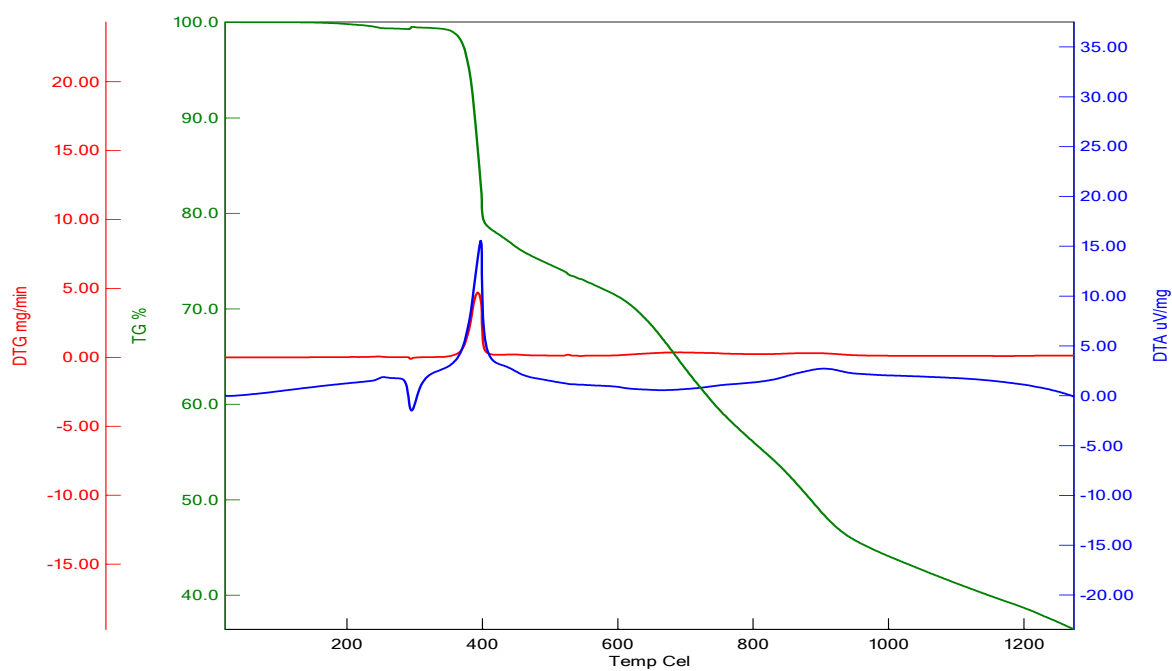
Fig. S4 ¹H and ¹³C-NMR spectrum of L¹H and L²H ligands



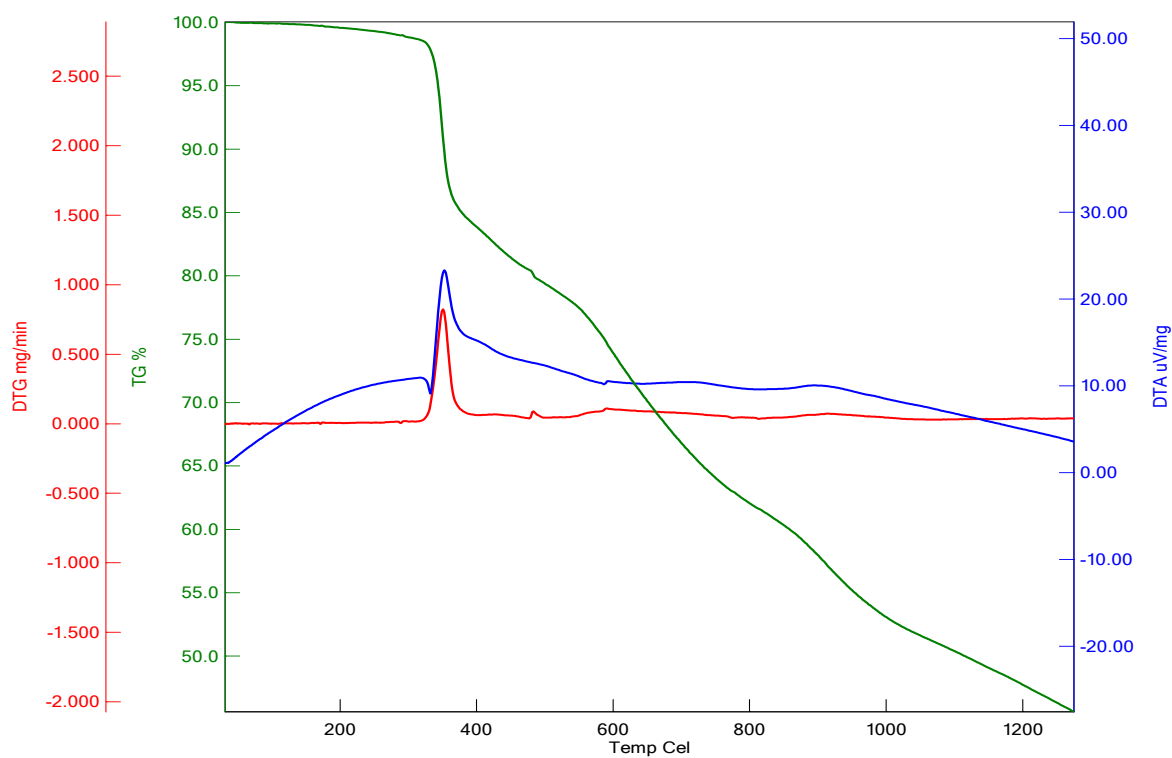
$\text{Zn}(\text{L}^1)_2$ (4)



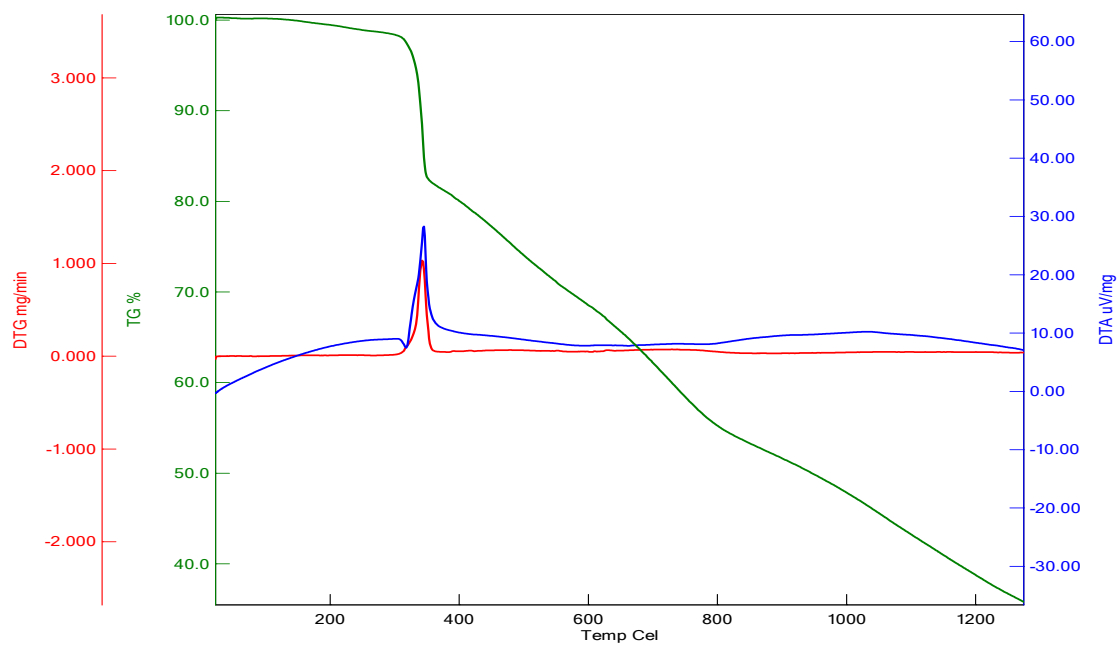
$[\text{Co}(\text{L}^1)_2] \cdot 2\text{H}_2\text{O}$ (5)



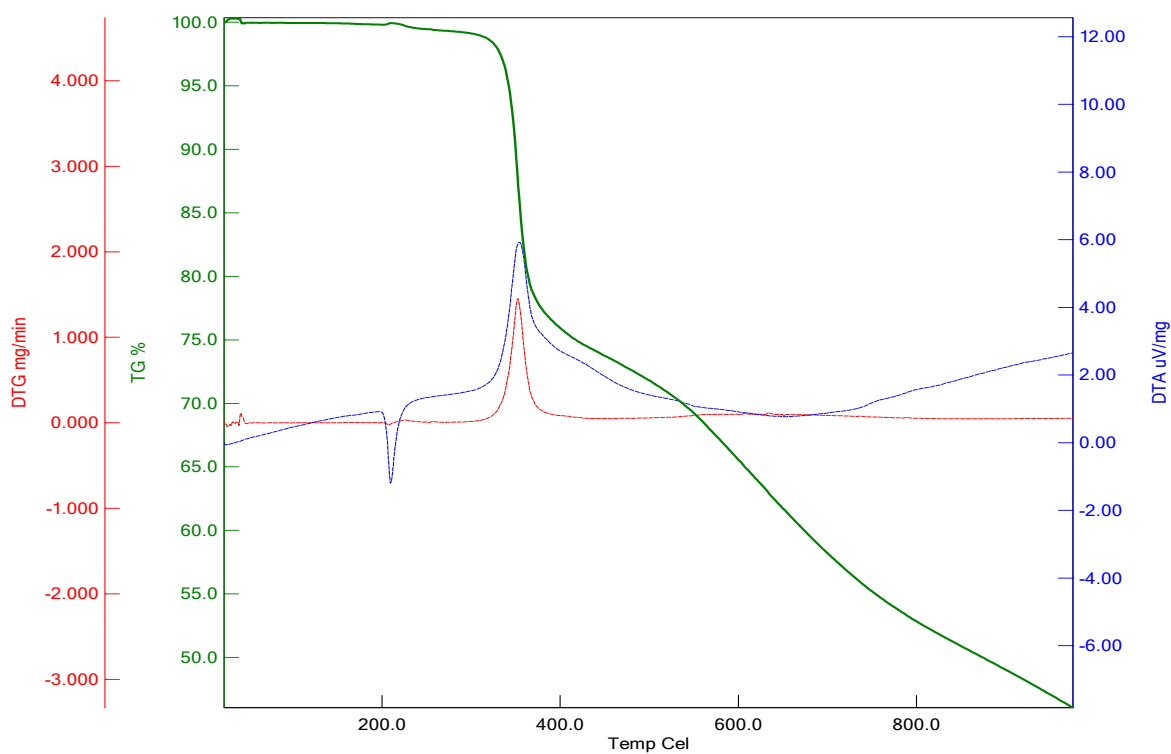
$\text{Cu}(\text{L}^1)_2$ (6)



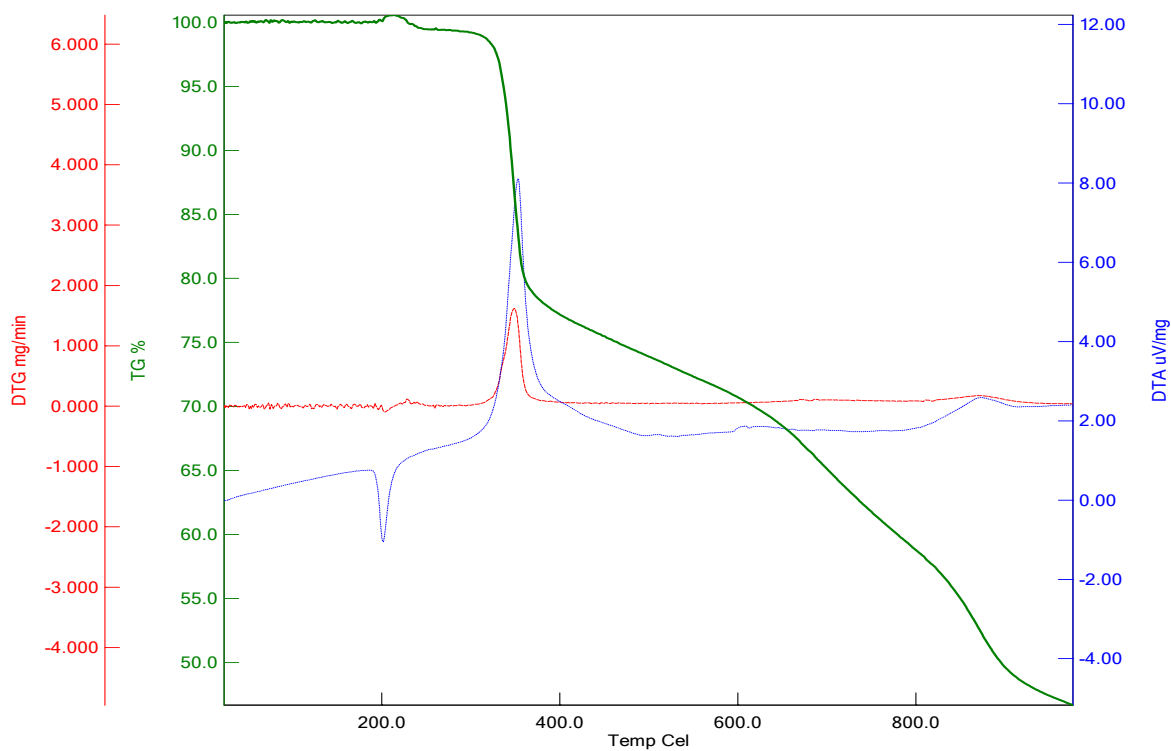
$\text{Ni}(\text{L}^1)_2$ (7)



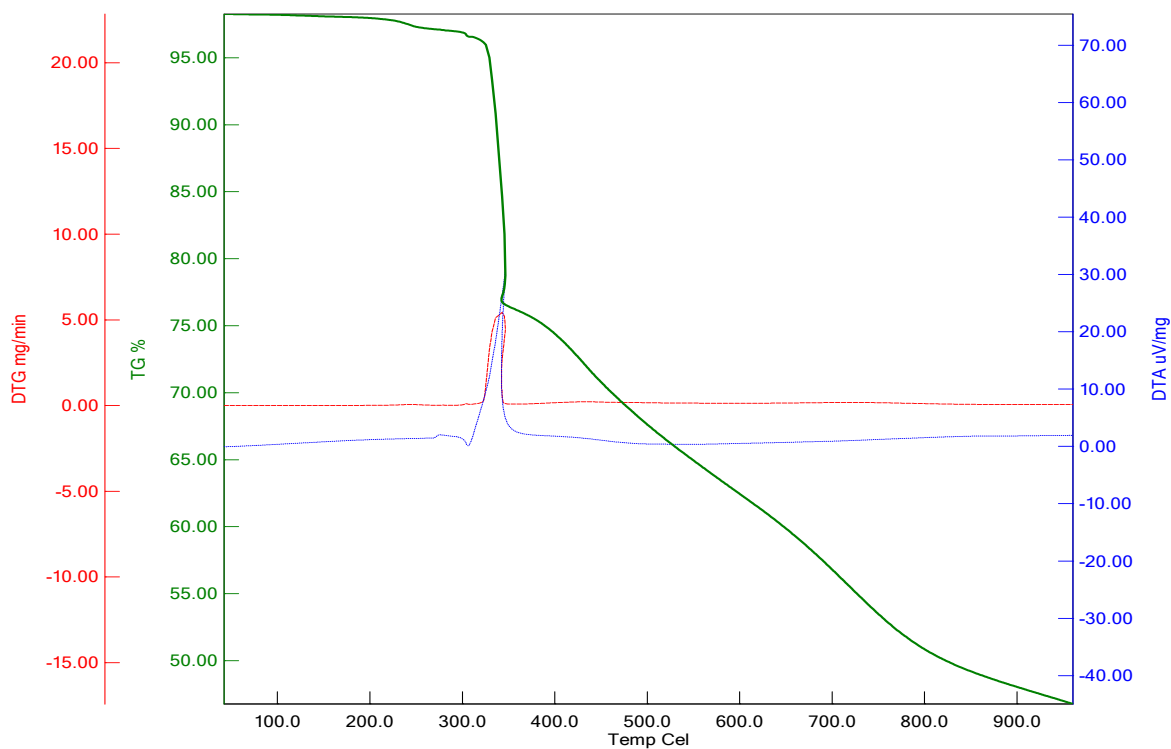
[Fe(L¹)Cl(H₂O)] (8)



Zn(L²)₂ (9)



$\text{Co}(\text{L}^2)_2$ (10)



$\text{Cu}(\text{L}^2)_2$ (11)

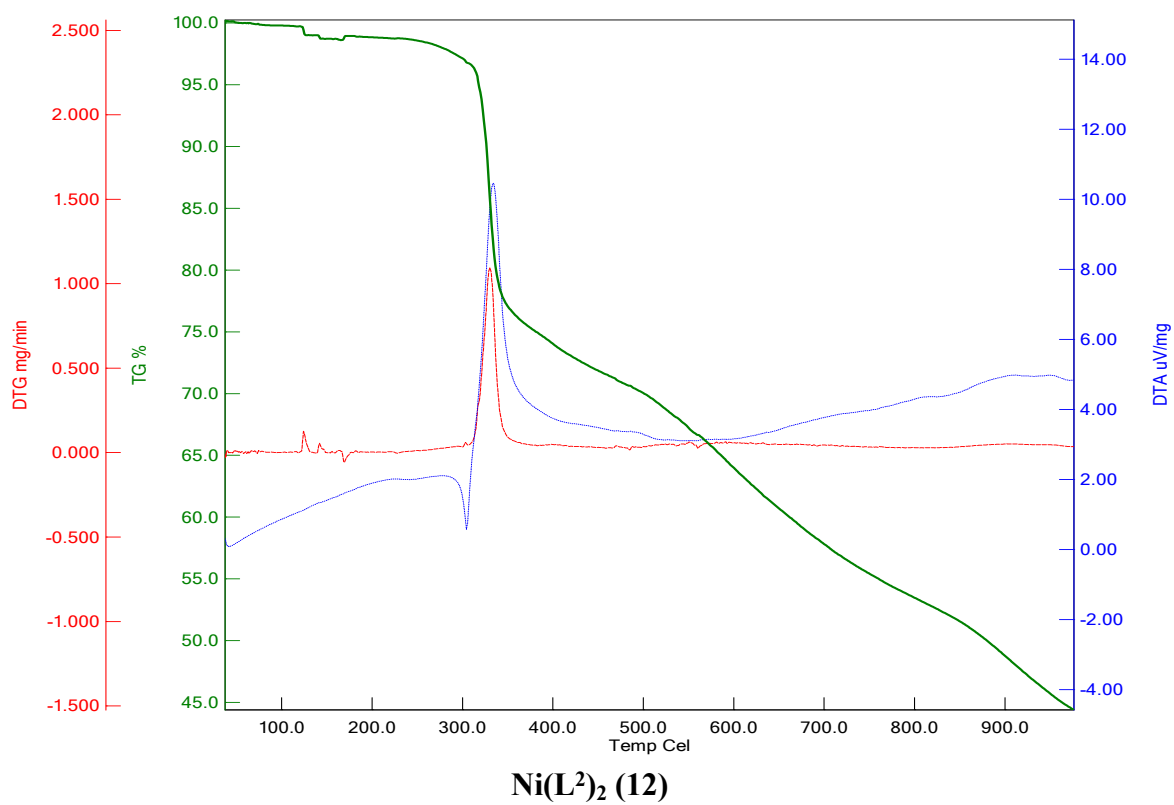


Fig. S5 Thermograms of complexes