



SUPPLEMENTARY MATERIAL TO
**Metal complexes with Schiff base and benzimidazolylphenol ligands
with *tert*-butyl and methoxy groups: Structural characterization and
biological evaluation**

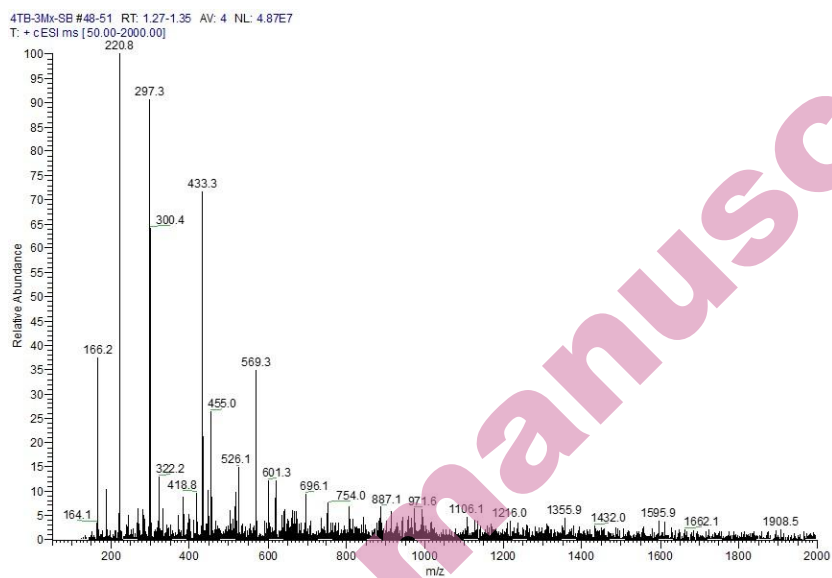
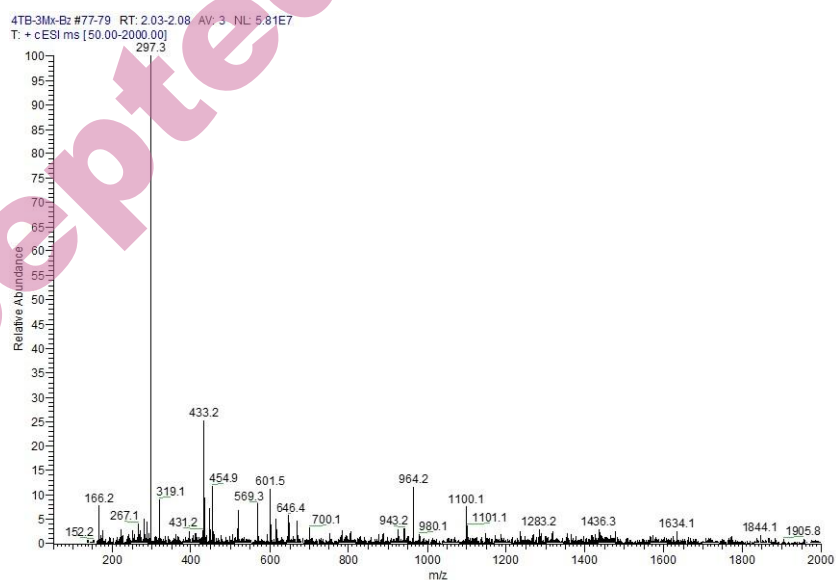
DILDORA PARDAEVA¹, AYDIN TAVMAN^{2,*}, MAYRAM HACIOGLU³, ONUR ŞAHİN⁴,
MEHMET ALTUN⁵ AND AYŞE SEHER BIRTEKSÖZ TAN³

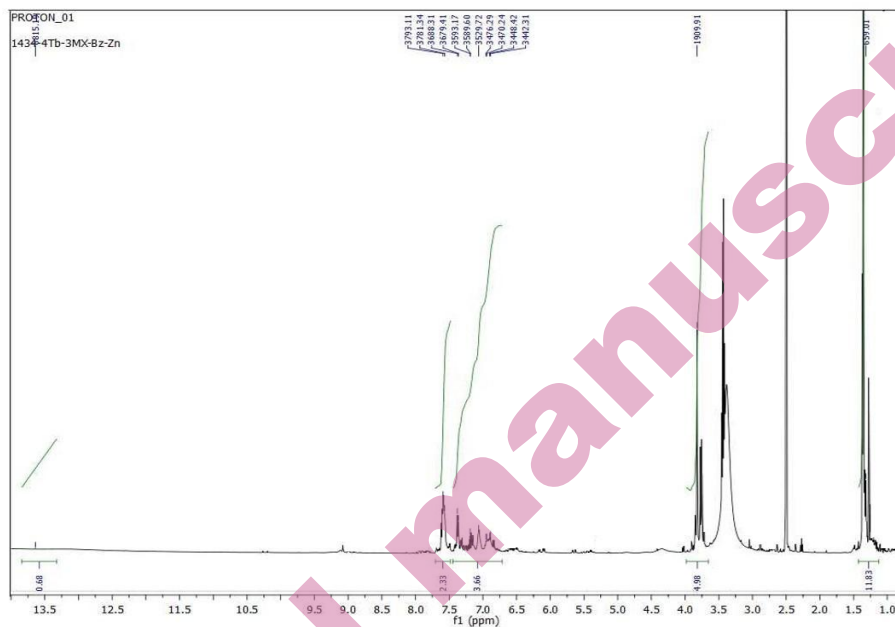
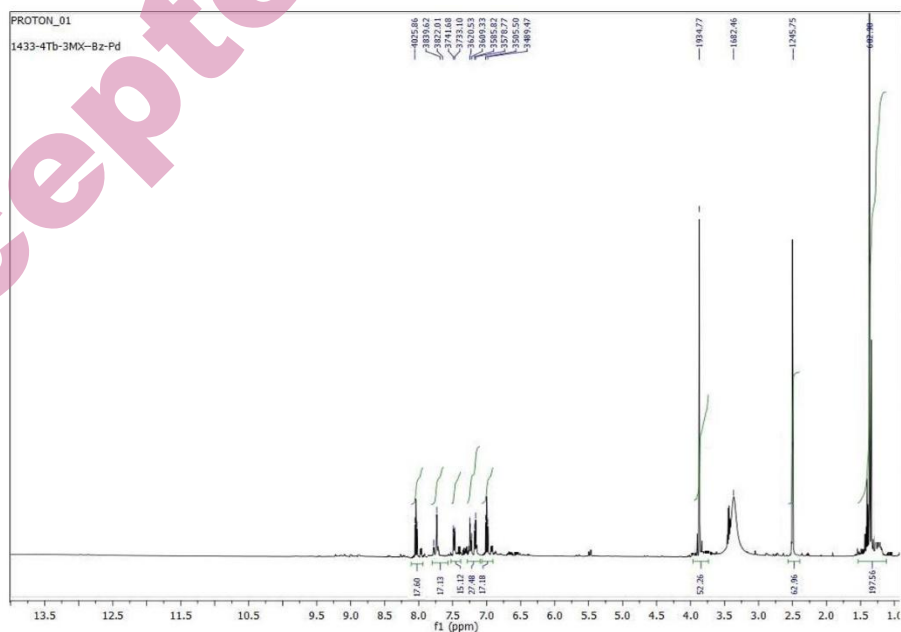
¹Istanbul University-Cerrahpaşa, Institute of Graduate Education, Department of Chemistry, 34320, Avcılar, Istanbul, Türkiye, ²Istanbul University-Cerrahpaşa, Faculty of Engineering, Department of Chemistry, Inorganic Chemistry Division, 34320, Avcılar, Istanbul, Türkiye, ³Istanbul University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, 34452, Beyazıt, Istanbul, Türkiye, ⁴Sinop University, Faculty of Health Sciences, Department of Occupational Health and Safety, 57000 Sinop, Türkiye, and ⁵Istanbul University-Cerrahpaşa, Faculty of Engineering, Department of Chemistry, Organic Chemistry Division, 34320, Avcılar, Istanbul, Türkiye.

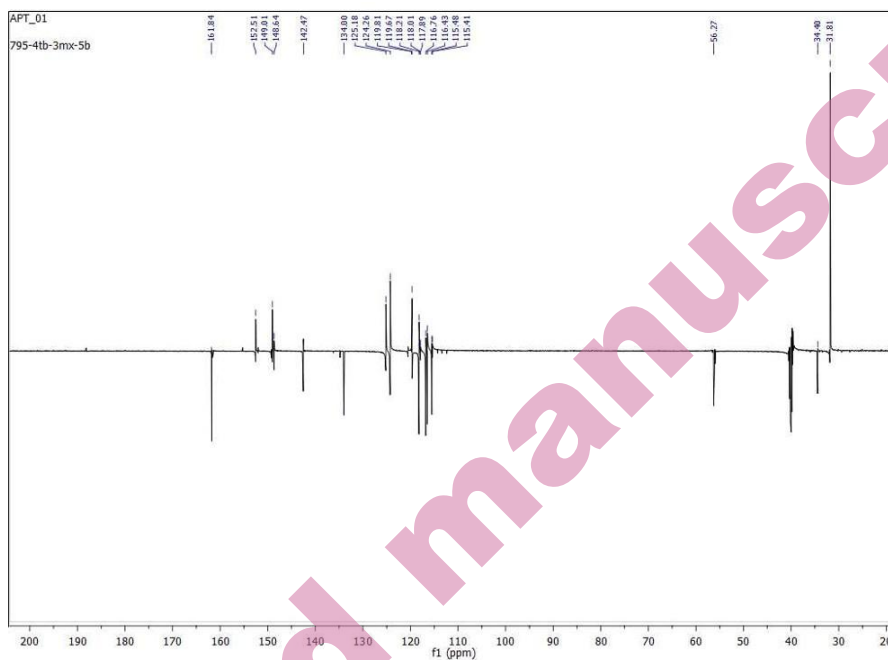
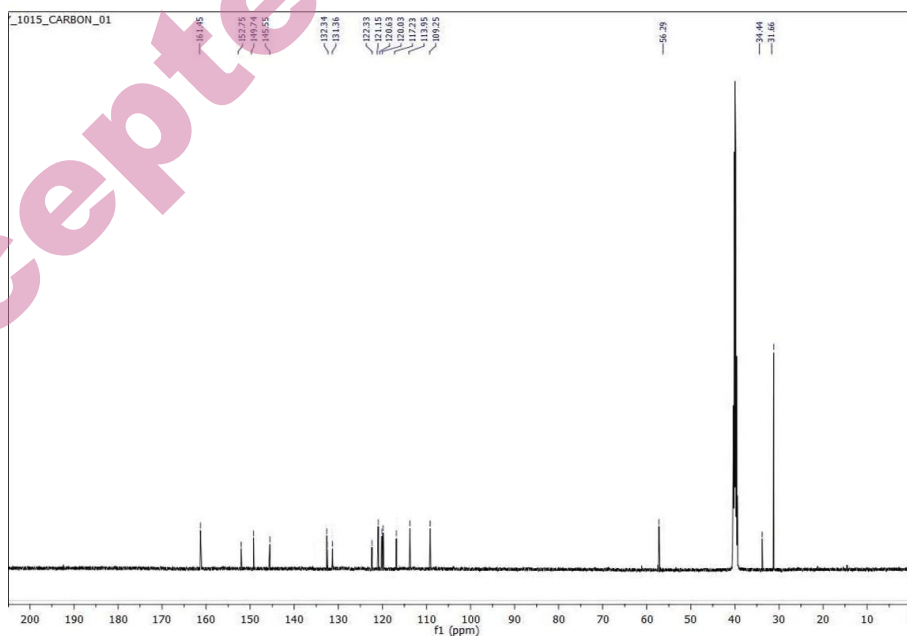
TABLE S1. Selected bond distances and angles for **H₂L¹** (Å, °)

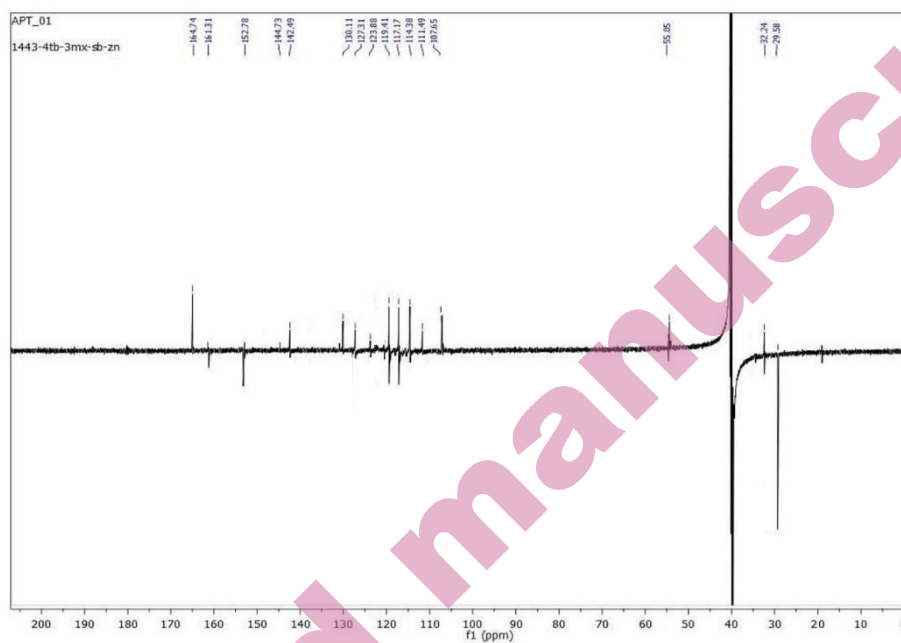
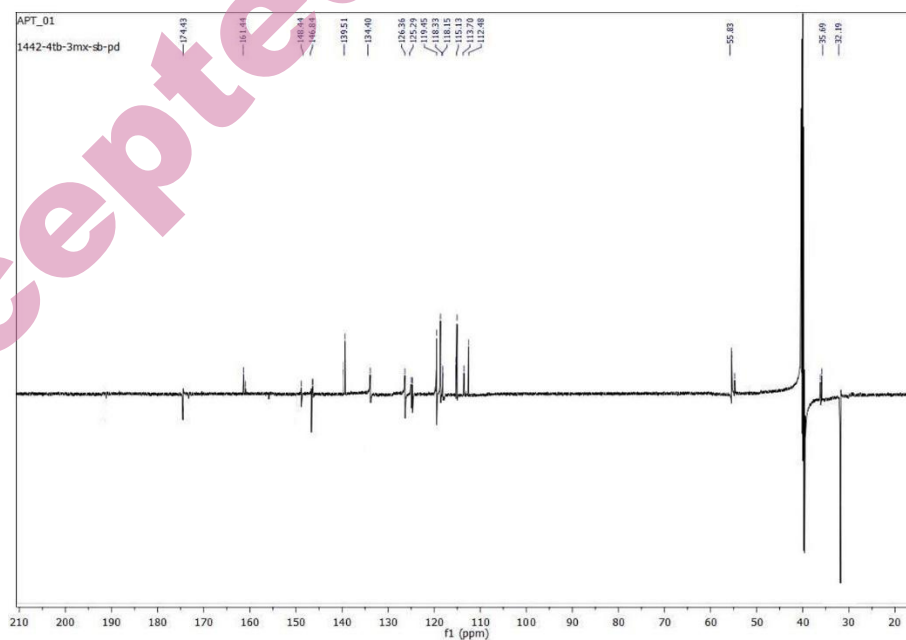
C8—N1	1.305(3)	C3—C2—O2	125.58(19)
C1—O1	1.289(2)	C13—C15—C18	110.40(19)
C2—O2	1.364(2)	C13—C15—C17	111.9(2)
C6—C8	1.407(3)	C16—C15—C13	108.3(2)
C7—O2	1.420(3)	O3—C10—C11	125.82(19)
C9—C14	1.384(3)	O3—C10—C9	116.1(2)
C9—C10	1.396(3)	C14—C9—N1	123.33(18)
C9—N1	1.414(3)	C10—C9—N1	115.90(18)
C10—O3	1.353(3)	C8—N1—C9	127.13(19)
O1—C1—C6	122.17 (19)	N1—C8—C6	123.8(2)
O1—C1—C2	121.55 (18)	C2—O2—C7	117.37(17)
O2—C2—C1	113.32 (17)		

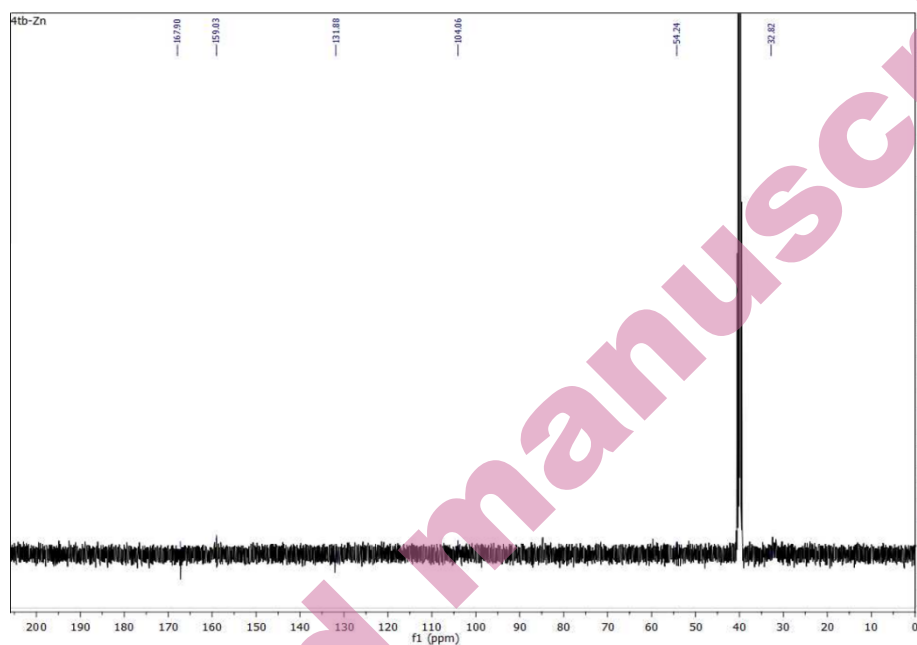
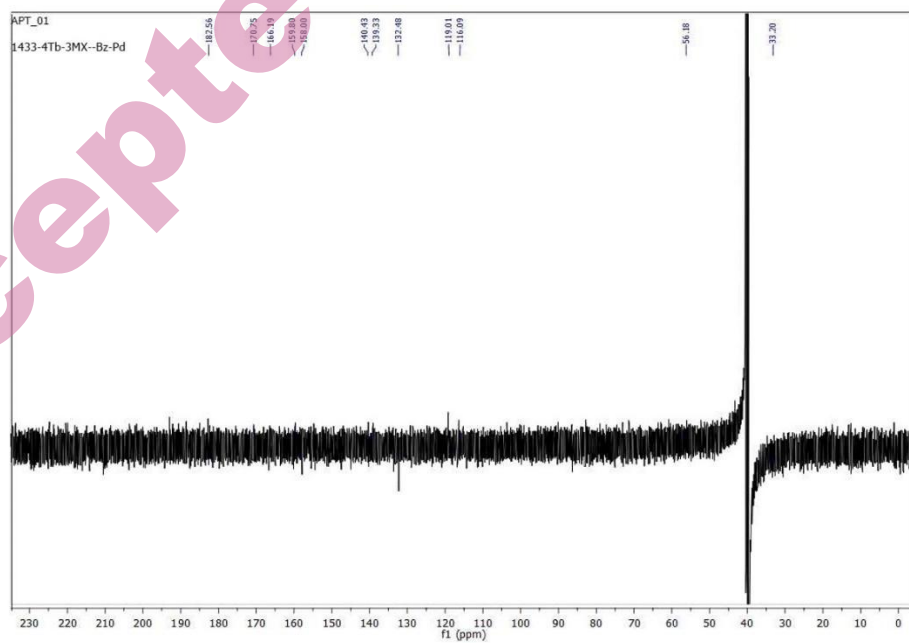
* Corresponding author. E-mail: atavman@iuc.edu.tr

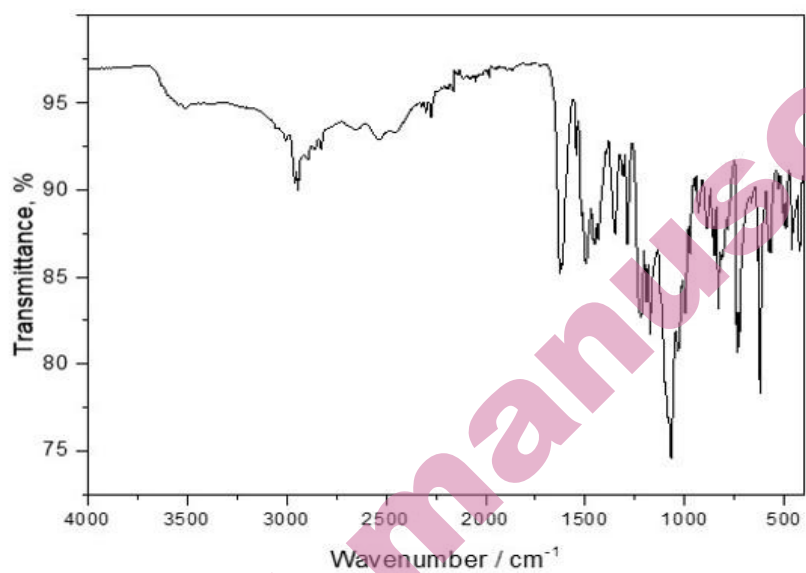
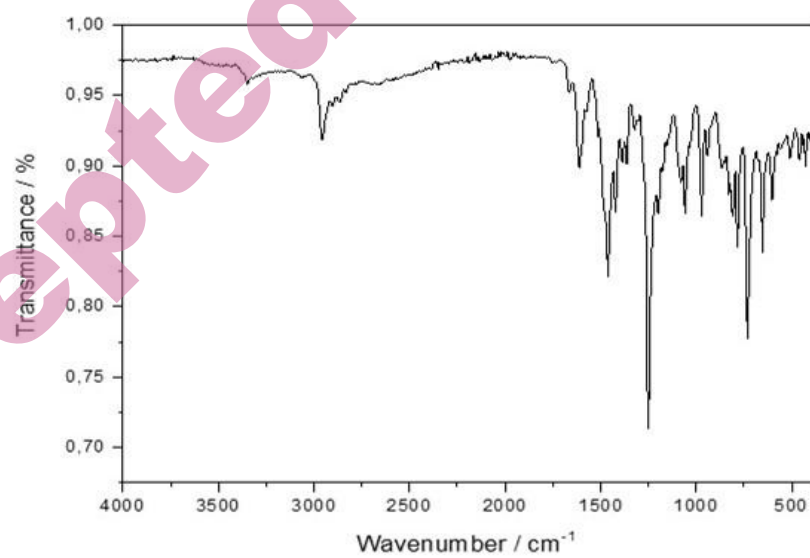
Fig. S1. ESI-MS spectrum of H_2L^1 Fig. S2. ESI-MS spectrum of HL^2

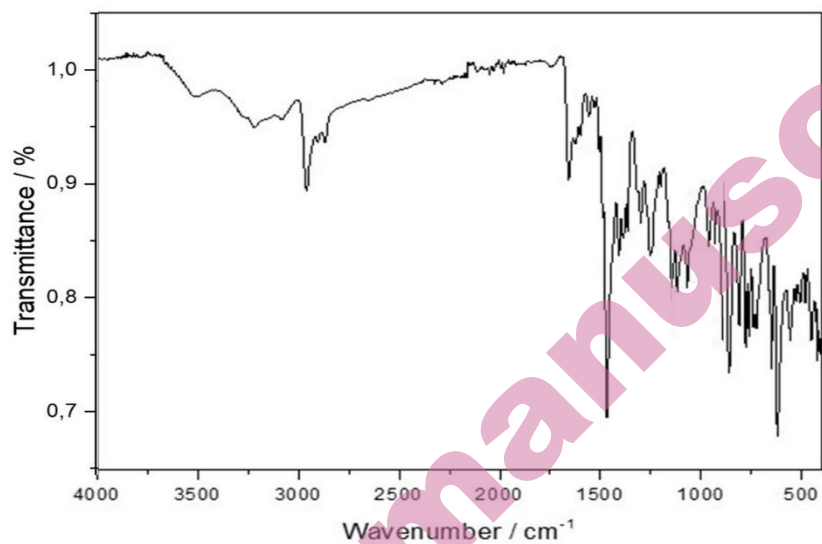
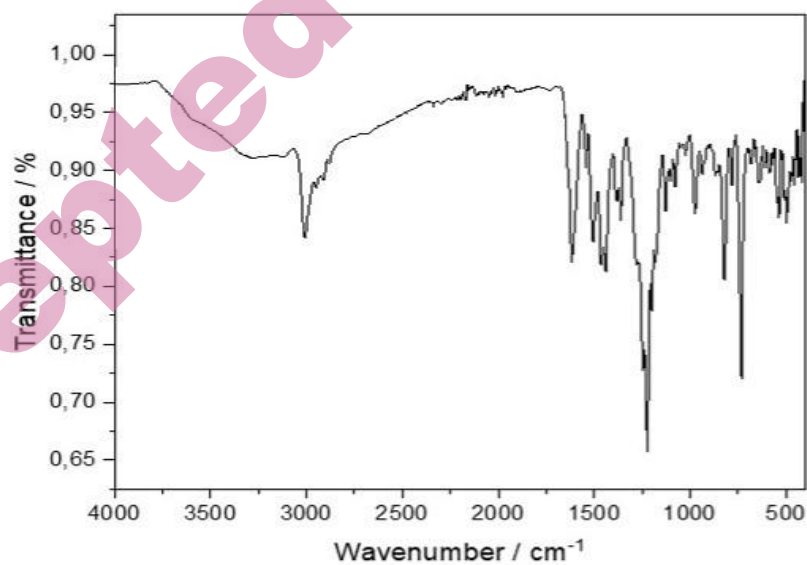
Fig. S7. ¹H-NMR spectrum of **2d** (Zn(II) complex of HL²)Fig. S8. ¹H-NMR spectrum of **2e** (Pd(II) complex of HL²)

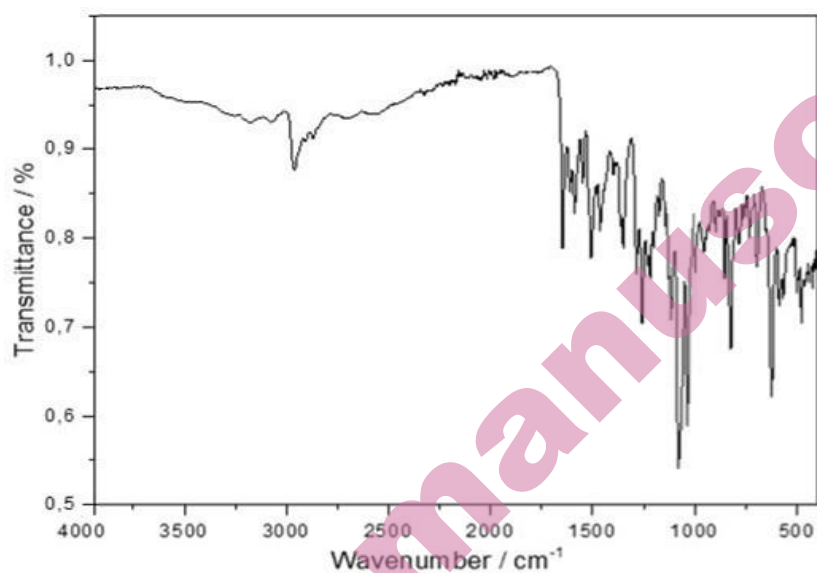
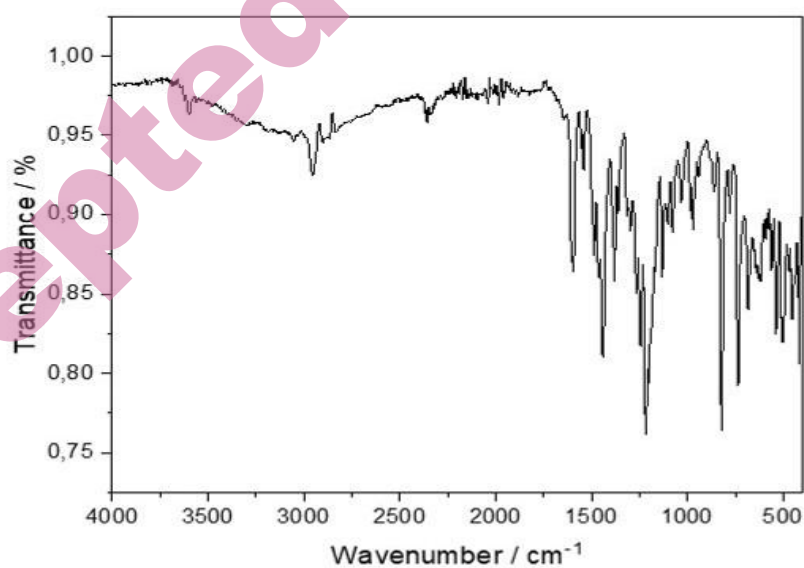
Fig. S9. ^{13}C -NMR spectrum of HL^1 Fig. S10. ^{13}C -NMR spectrum of HL^2

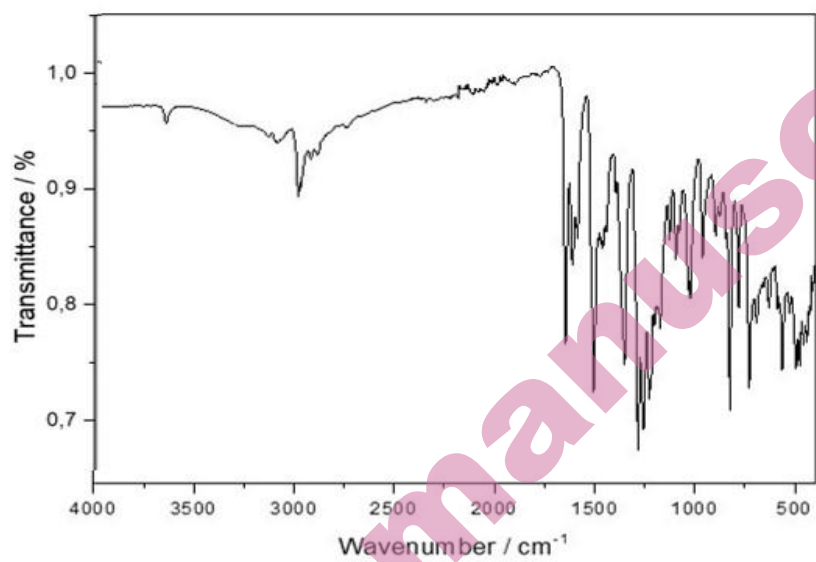
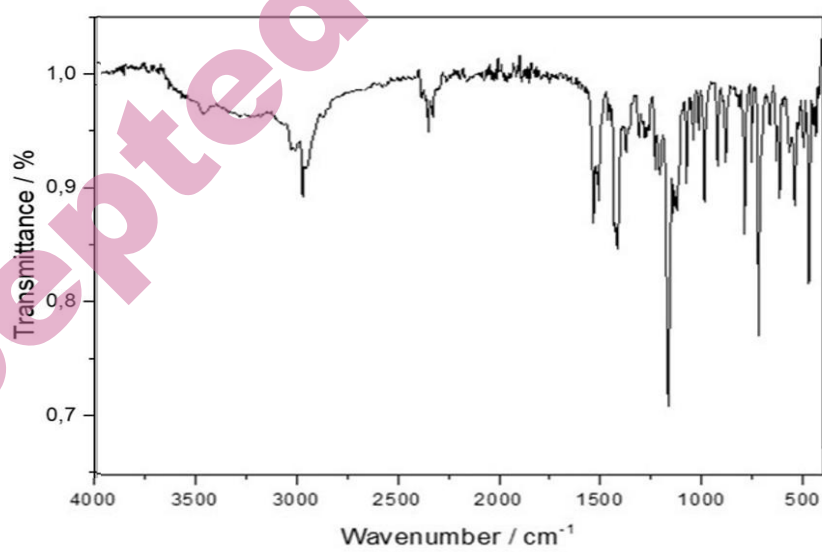
Fig. S11. ¹³C-NMR spectrum of **1d** (Zn(II) complex of **H₂L¹**)Fig. S12. ¹³C-NMR spectrum of **1e** (Pd(II) complex of **H₂L¹**)

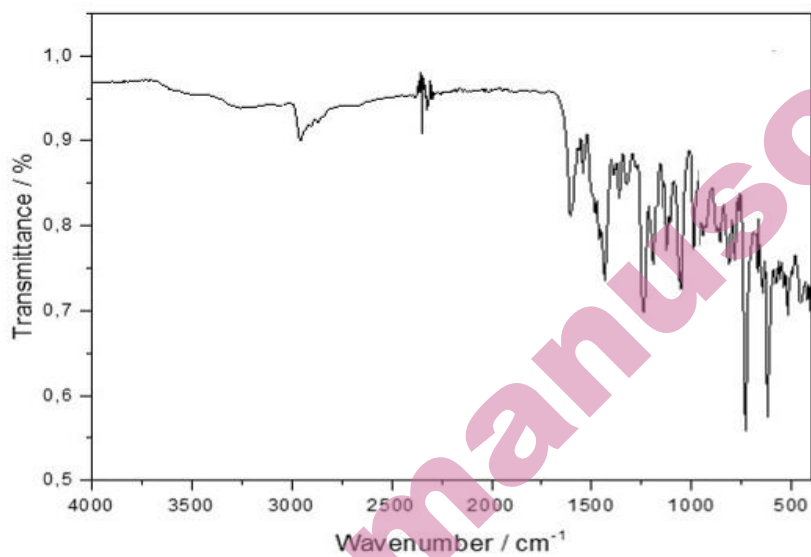
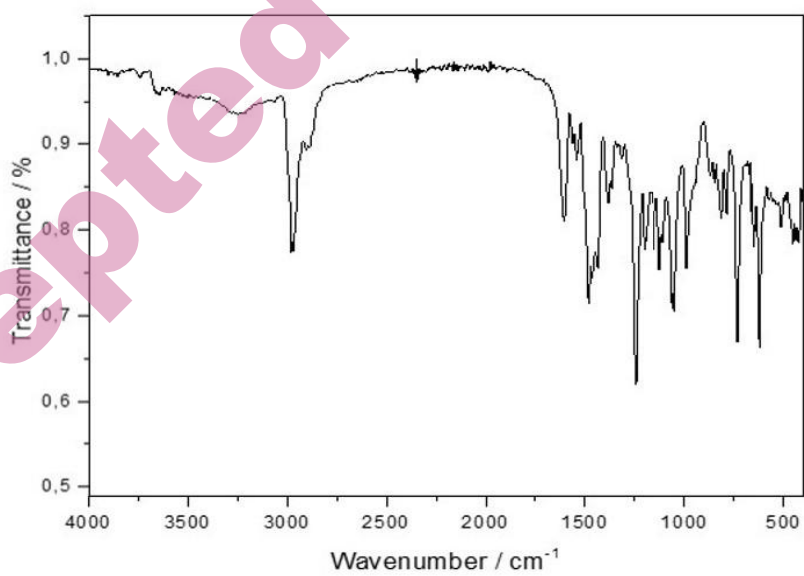
Fig. S13. ¹³C-NMR spectrum of **2d** (Zn(II) complex of **HL**²)Fig. S14. ¹³C-NMR spectrum of **2e** (Pd(II) complex of **HL**²)

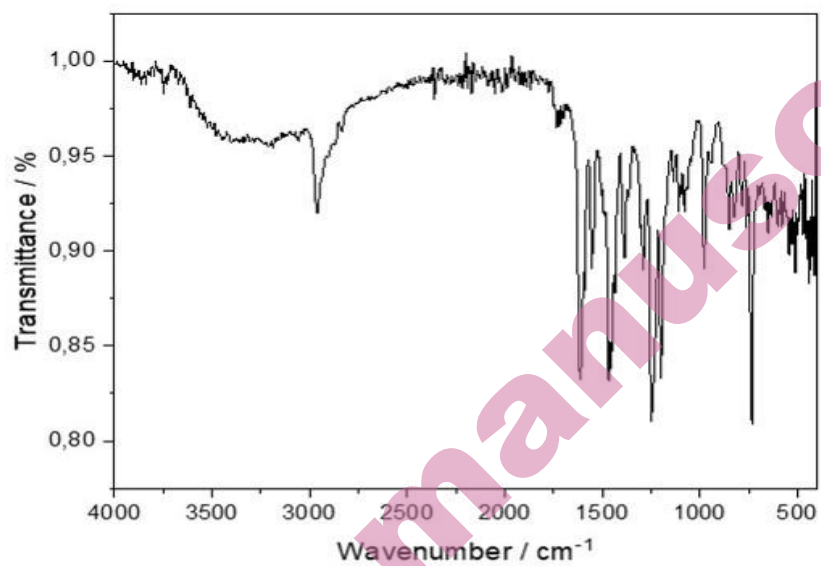
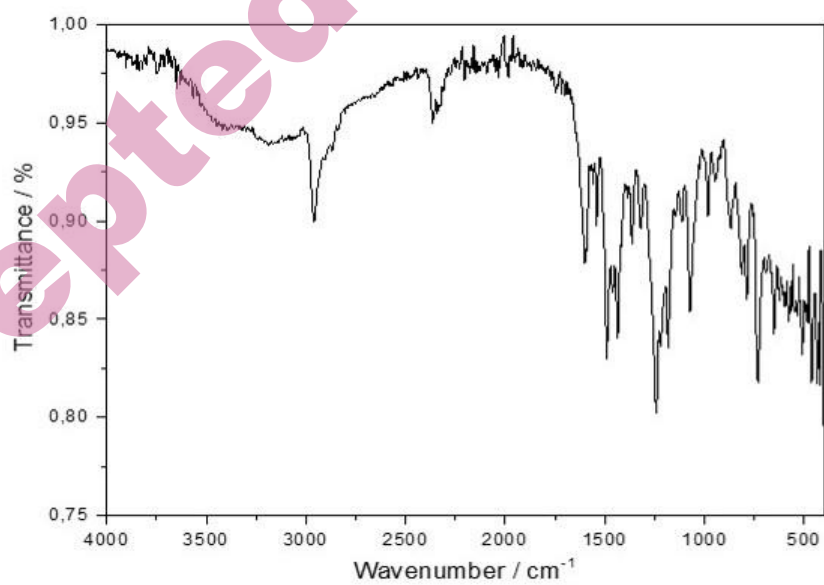
Fig. S15. FTIR spectrum of **H₂L¹**Fig. S16. FTIR spectrum of **HL²**

Fig. S17. FTIR spectrum of **1a**Fig. S18. FTIR spectrum of **1b**

Fig. S19. FTIR spectrum of **1c**Fig. S20. FTIR spectrum of **1d**

Fig. S21. FTIR spectrum of **1e**Fig. S22. FTIR spectrum of **2a**

Fig. S23. FTIR spectrum of **2b**Fig. S24. FTIR spectrum of **2c**

Fig. S25. FTIR spectrum of **2d**Fig. S26. FTIR spectrum of **2e**

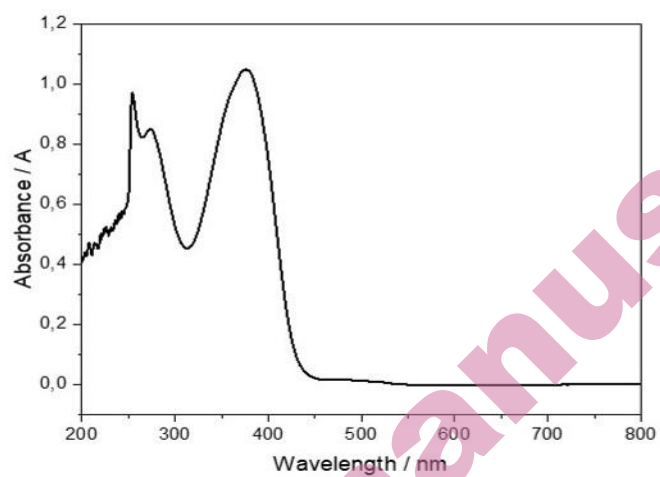
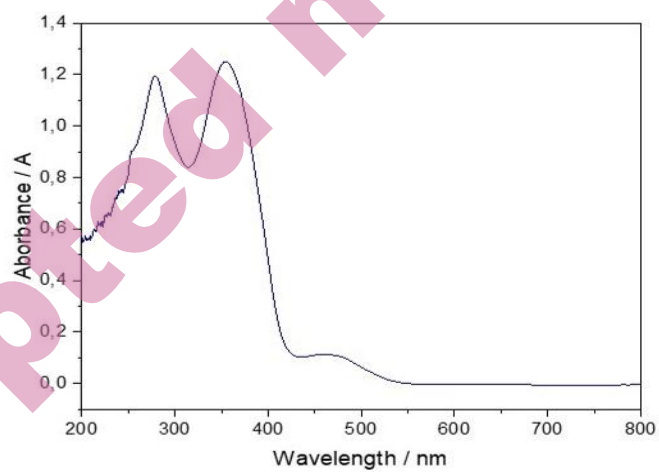
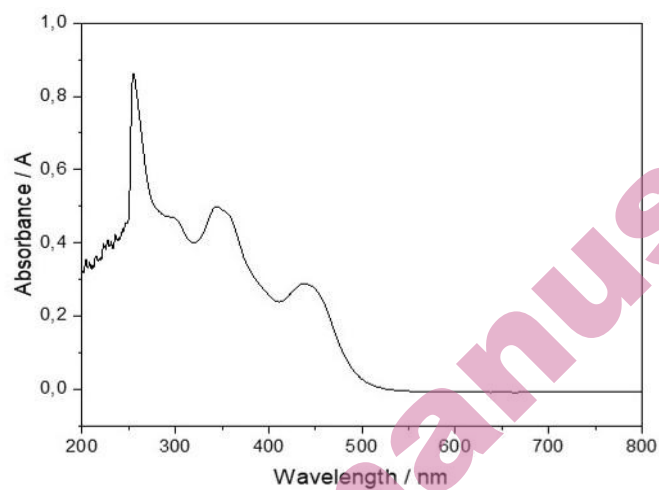
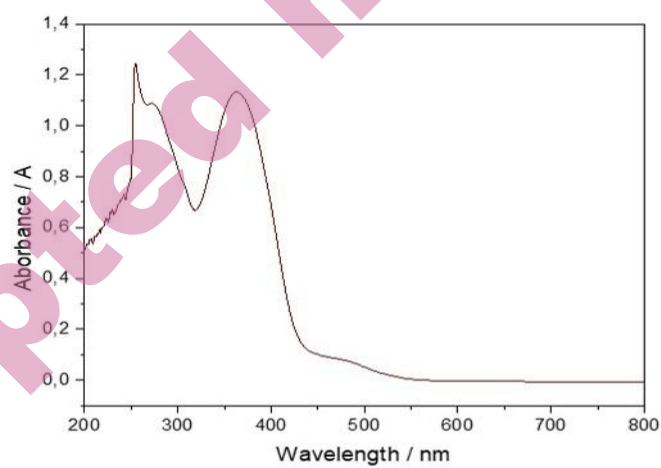
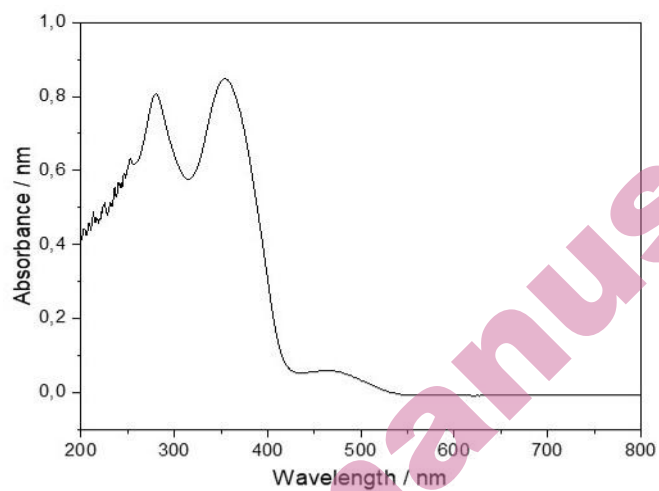
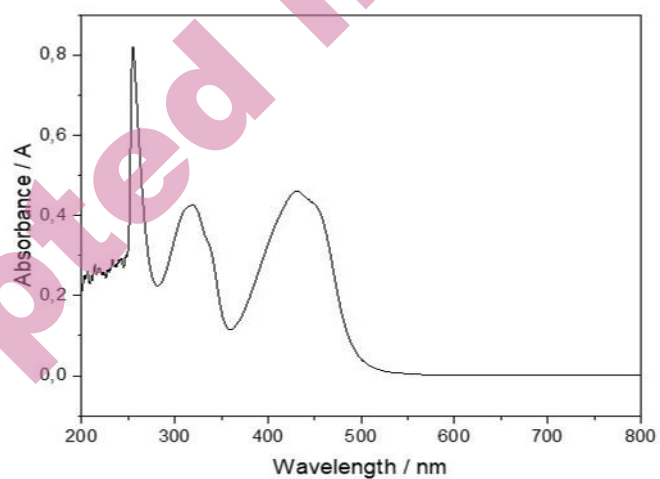
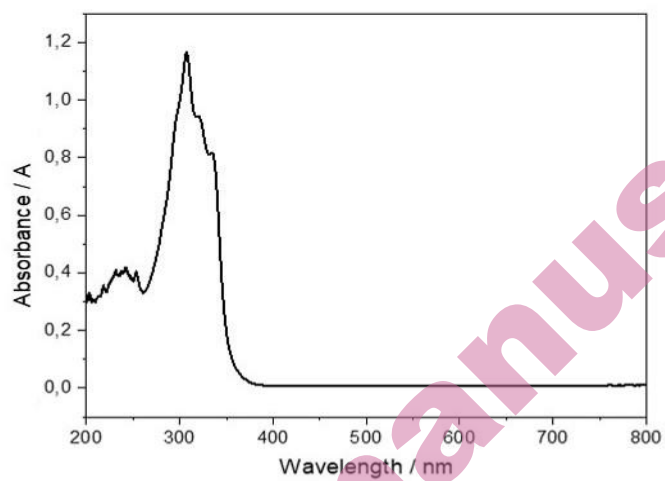
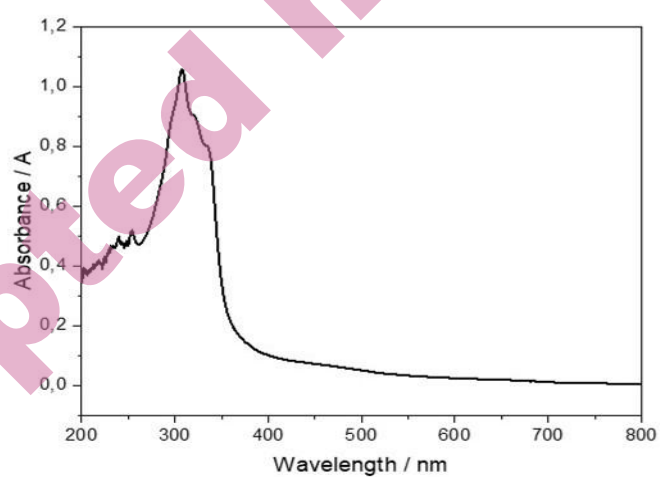
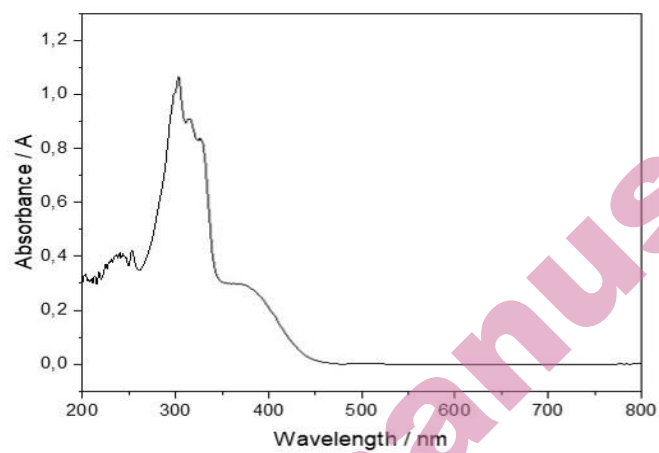
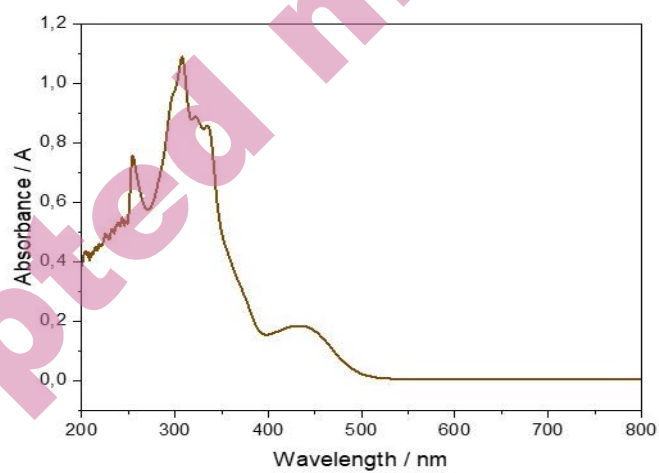
Fig. S27. UV-visible spectrum of H₂L¹

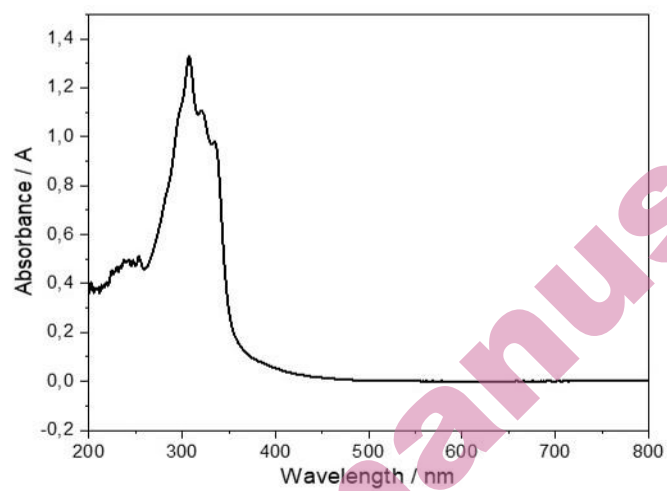
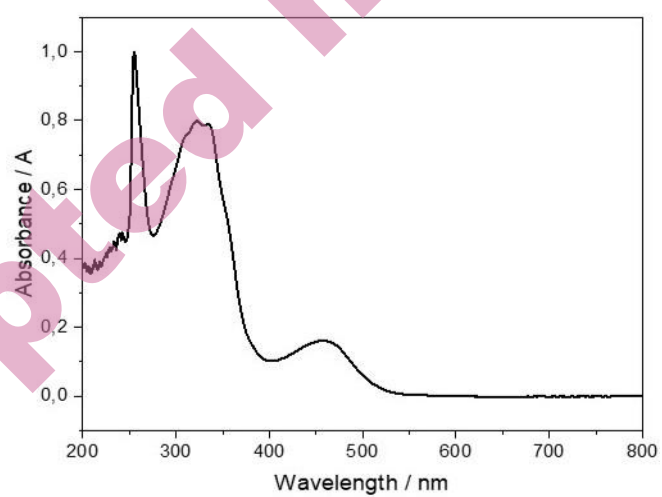
Fig. S28. UV-visible spectrum of 1a

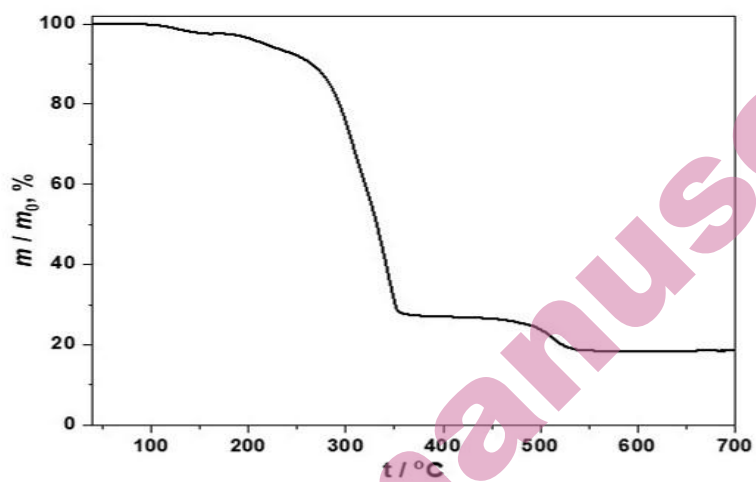
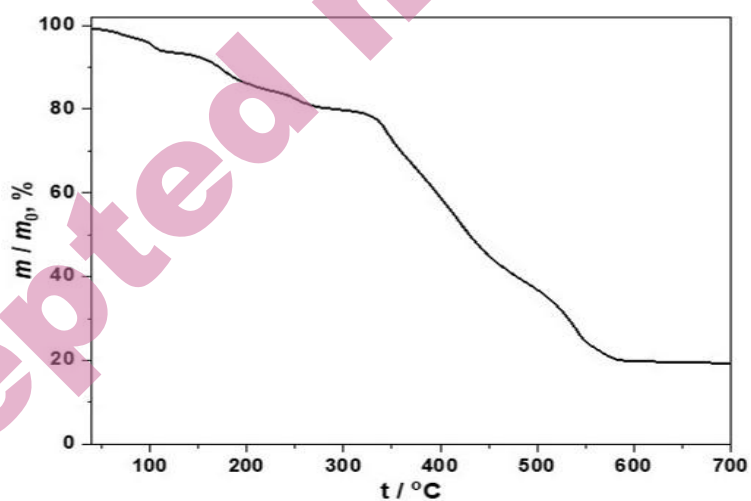
Fig. S29. UV-visible spectrum of **1b**Fig. S30. UV-visible spectrum of **1c**

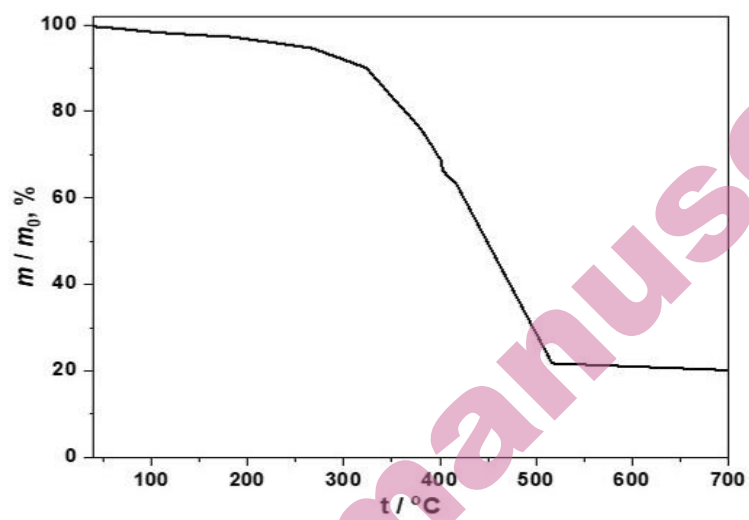
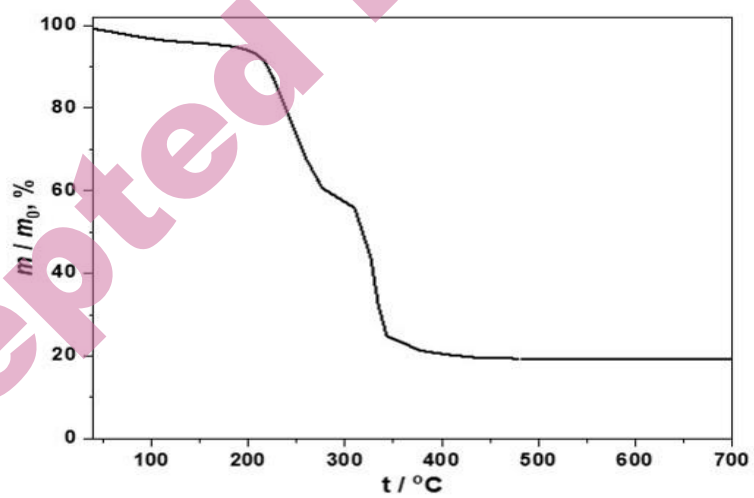
Fig. S31. UV-visible spectrum of **1d**Fig. S32. UV-visible spectrum of **1e**

Fig. S33. UV-visible spectrum of HL^2 Fig. S34. UV-visible spectrum of $2a$

Fig. S35. UV-visible spectrum of **2b**Fig. S36. UV-visible spectrum of **2c**

Fig. S37. UV-visible spectrum of **2d**Fig. S38. UV-visible spectrum of **2e**

Fig. S39. TGA curve of **2a**Fig. S40. TGA curve of **2b**

Fig. S41. TGA curve of **2c**Fig. S42. TGA curve of **2d**

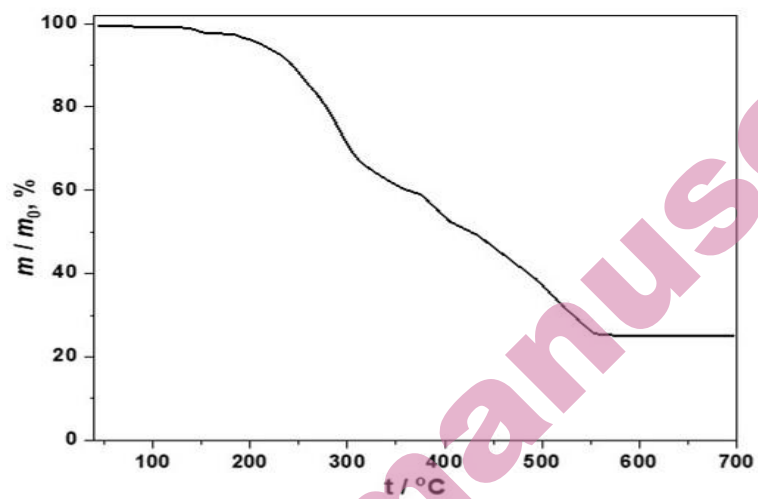


Fig. S43. TGA curve of 2e