

Supplementary Data

This supplementary data is a part of a paper entitled “Synthesis, Characterization, and Anti-Breast Cancer Properties of Cu(II) Complexes with Schiff Base and Azo Dye Ligands”.

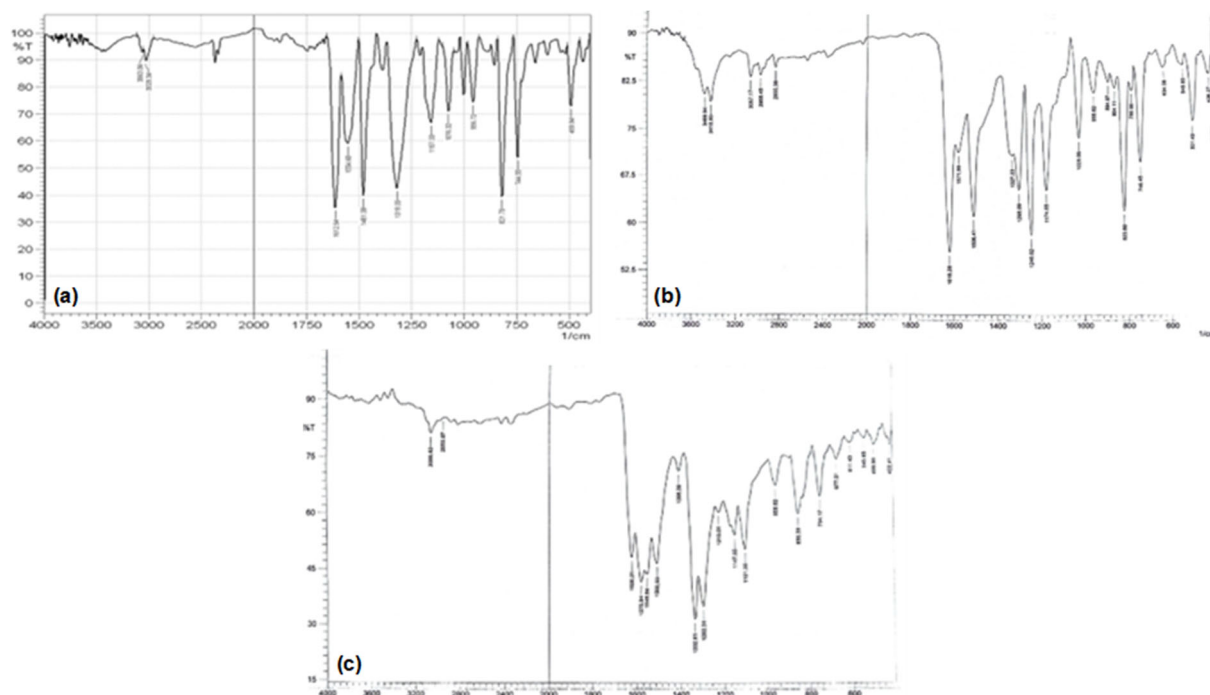


Fig S1. FTIR spectra of Schiff base ligands (a) BBr, (b) BOCH_3 , and (c) BNO_2

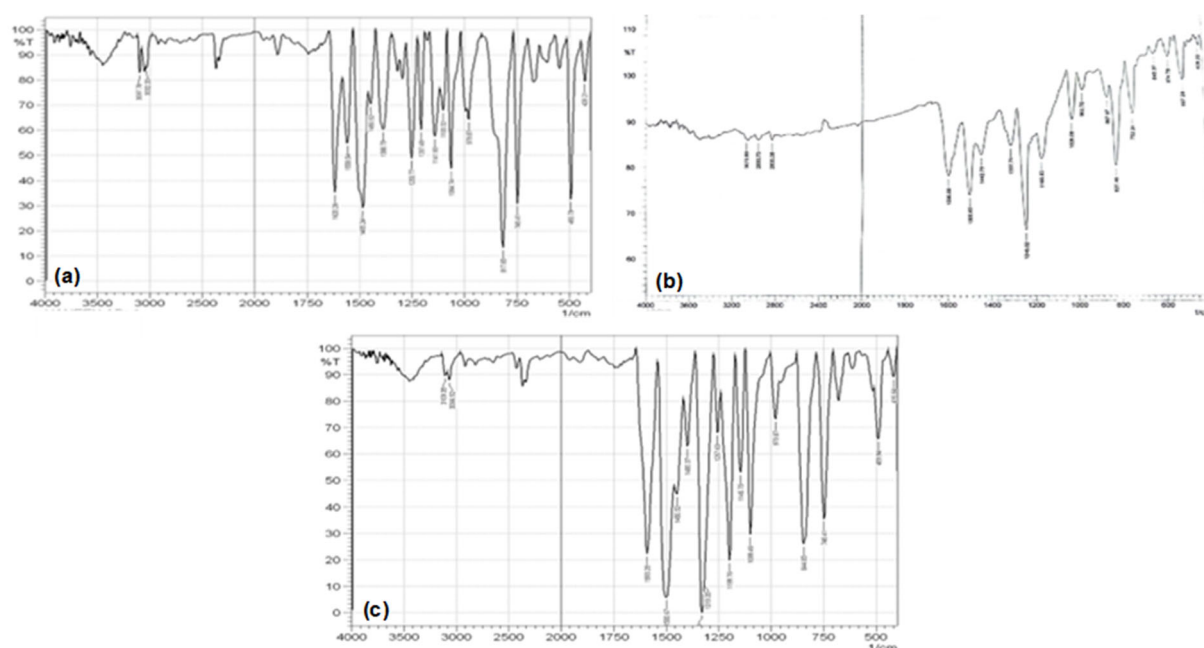


Fig S2. FTIR spectra of azo dye ligands (a) ABr, (b) AOCH_3 , and (c) ANO_2

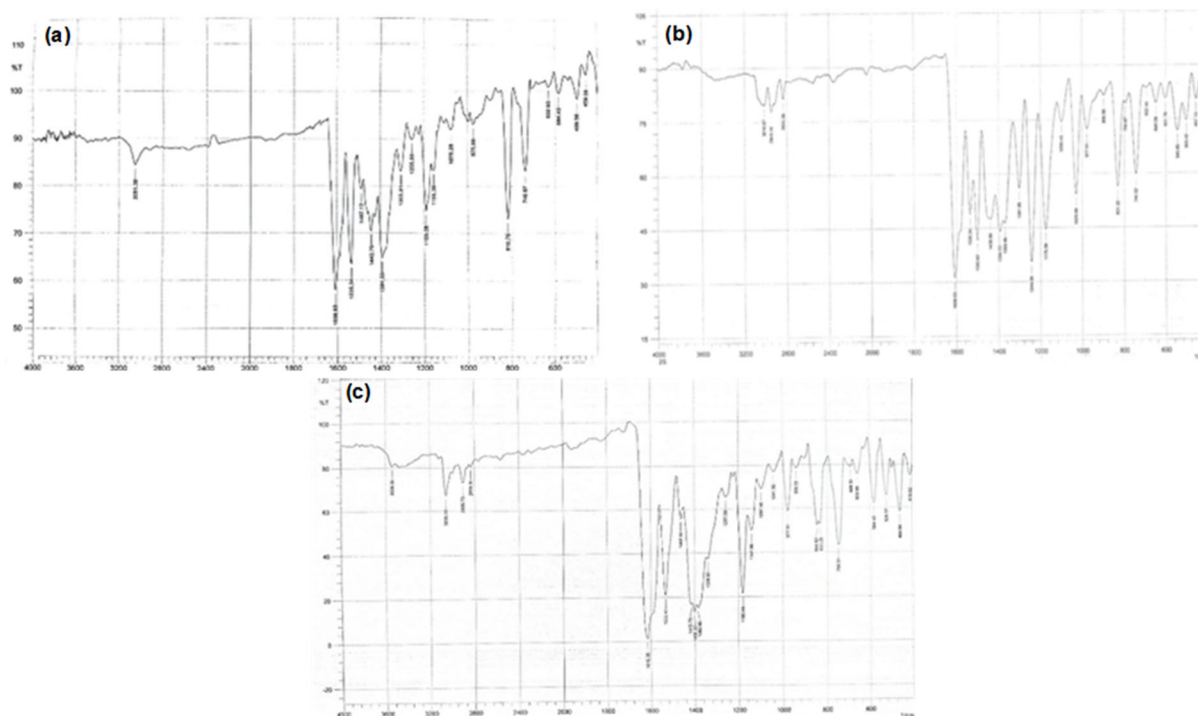


Fig S3. FTIR spectra of Schiff base complexes (a) CuBBr, (b) CUBOCH₃, and (c) CuBNO₂

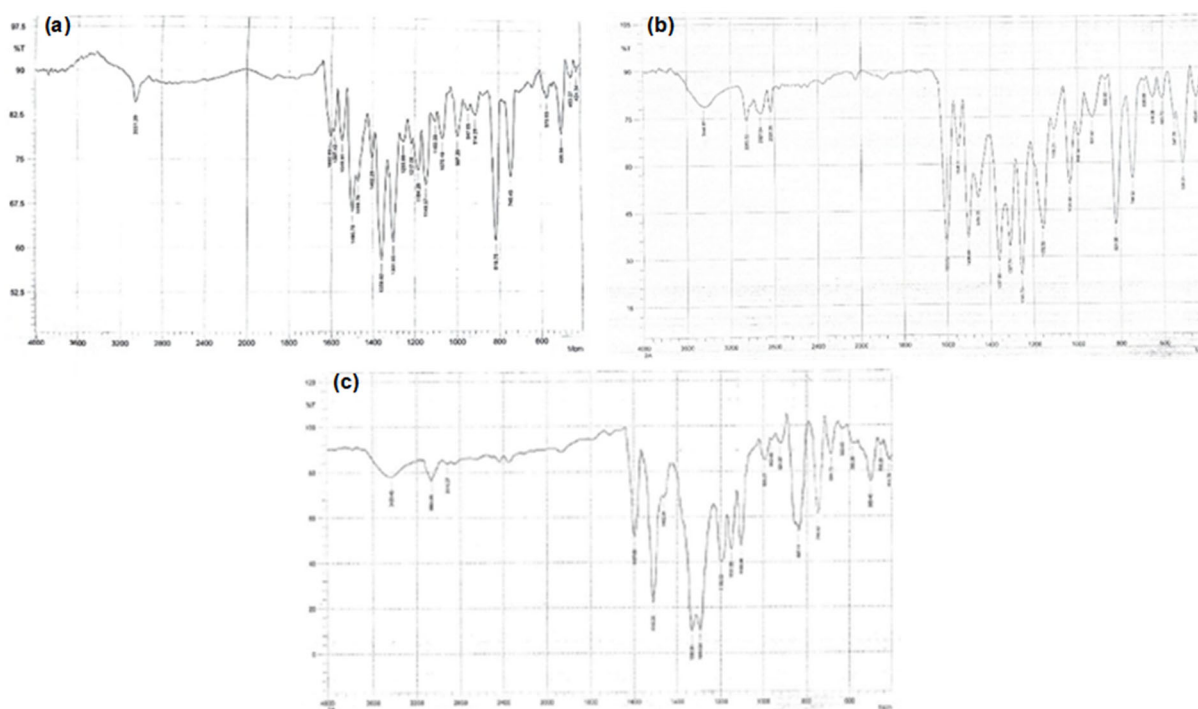


Fig S4. FTIR spectra of azo dye complexes (a) CuABr, (b) CuAOCH₃, and (c) CuANO₂

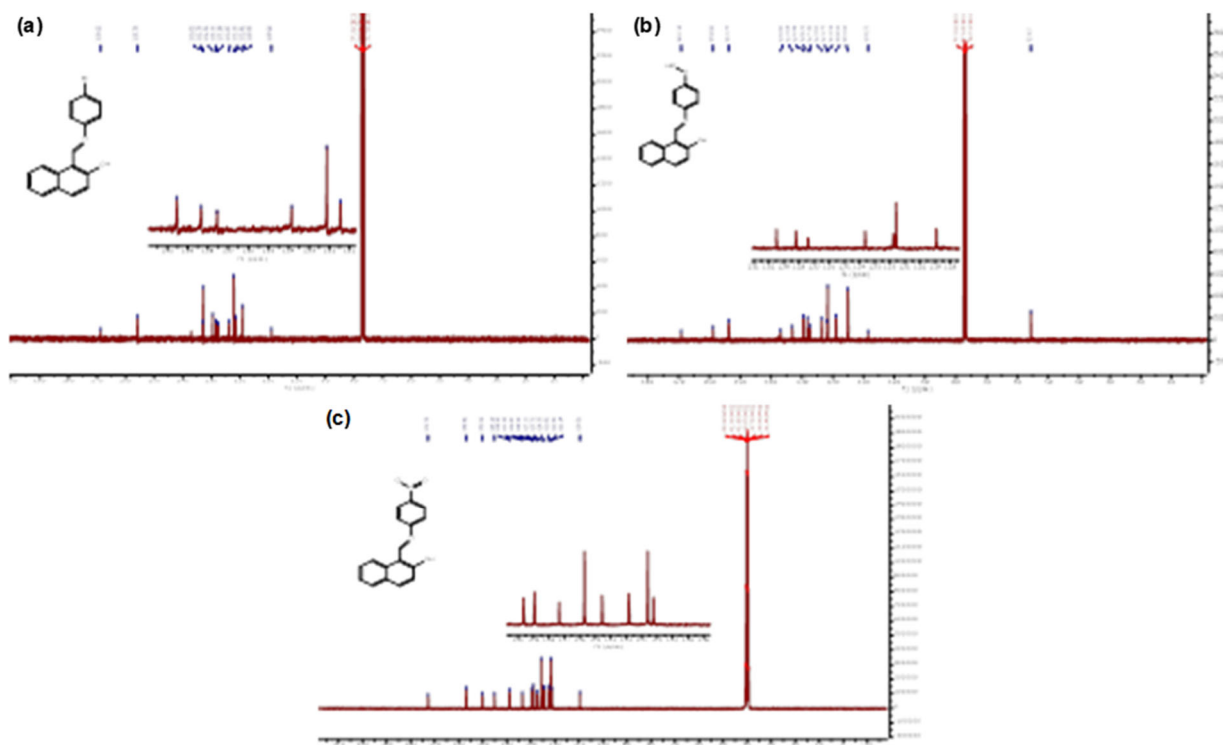


Fig S5. ^{13}C -NMR spectra of Schiff base ligands (a) BBr, (b) BOCH_3 , and (c) BNO_2

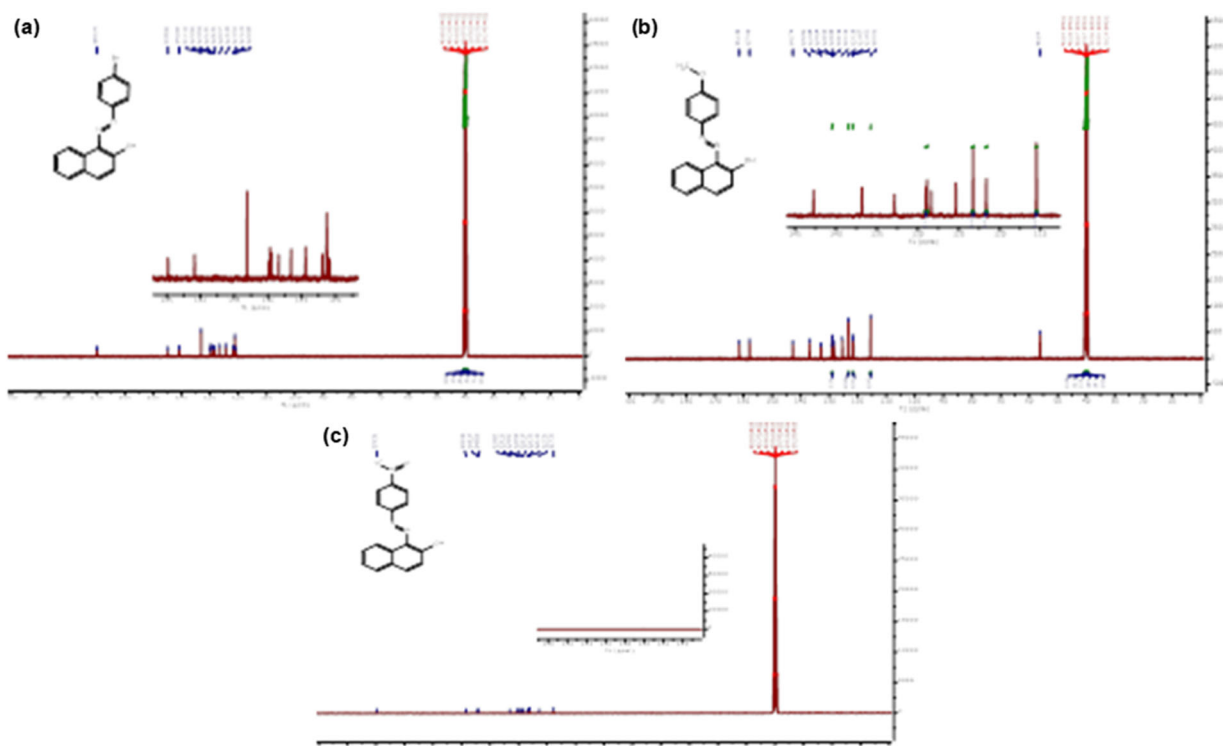


Fig S6. ^{13}C -NMR spectra of azo dye ligands (a) ABr, (b) AOCH_3 , and (c) ANO_2

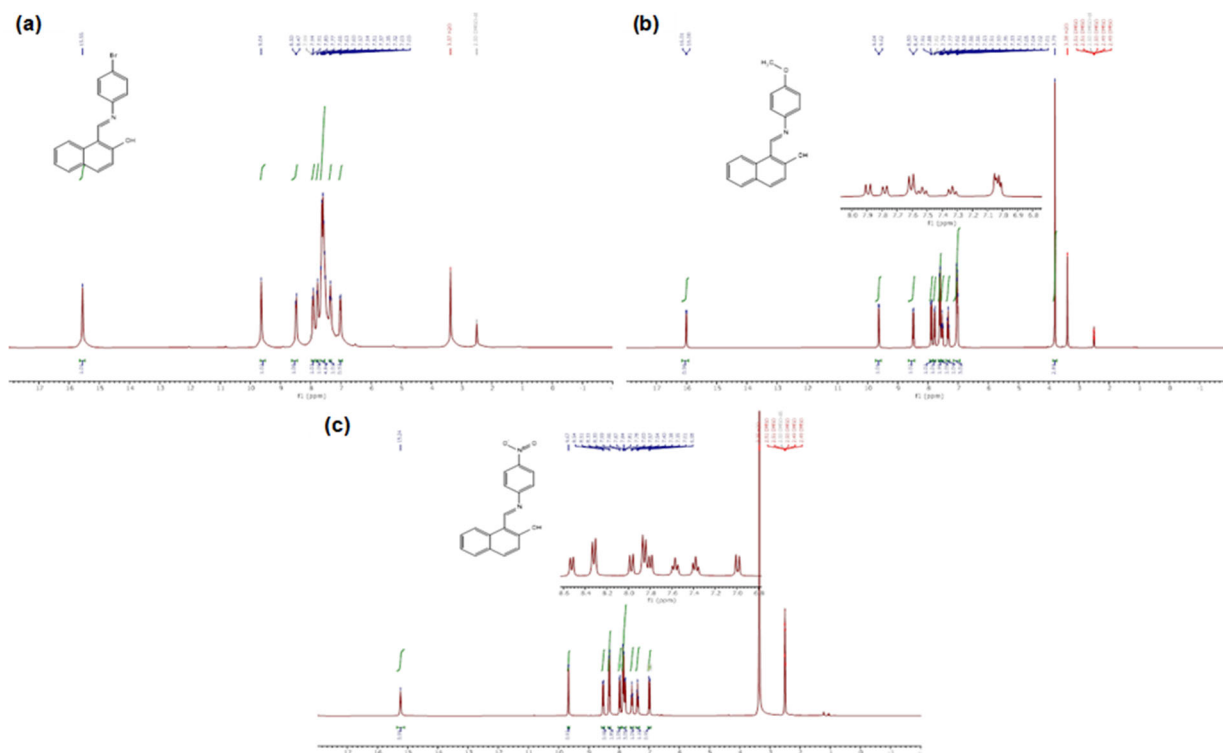


Fig S7. $^1\text{H-NMR}$ spectra of Schiff base ligands (a) BBr, (b) BOCH_3 , and (c) BNO_2

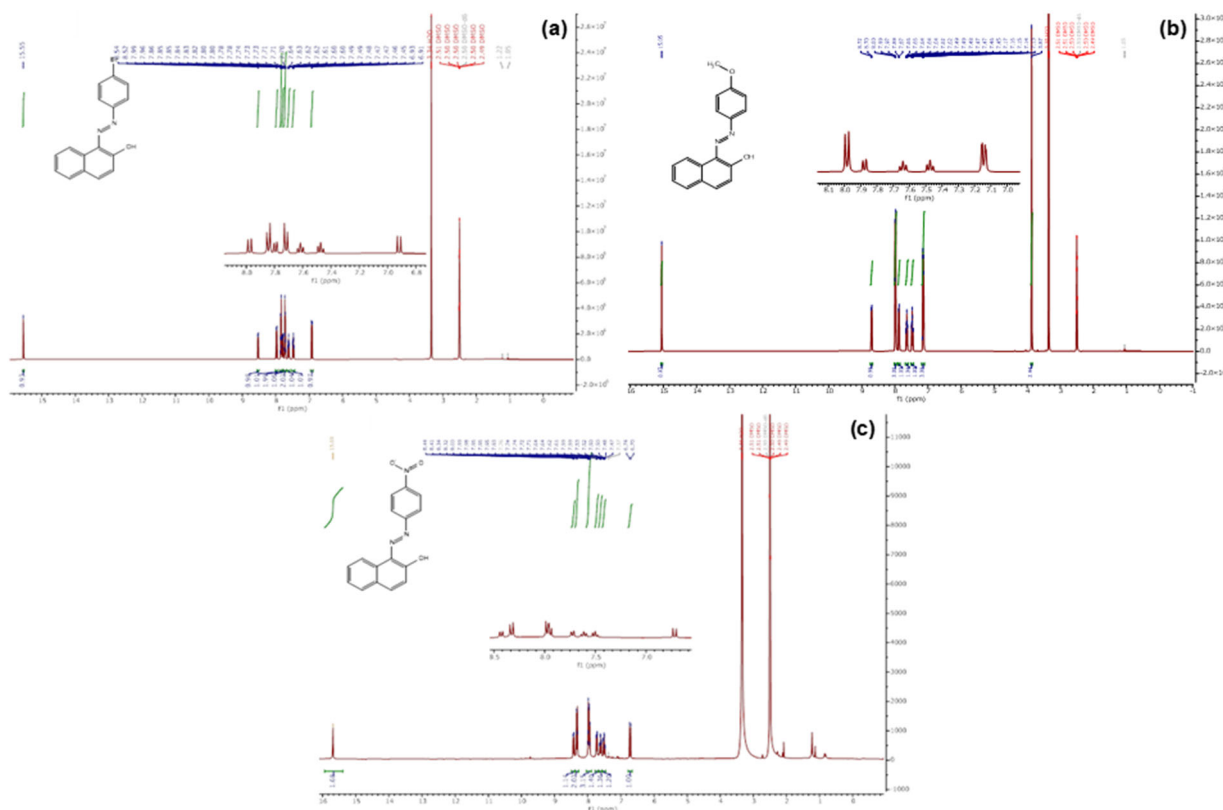


Fig S8. $^1\text{H-NMR}$ spectra of azo dye ligands (a) ABr, (b) AOCH_3 , and (c) ANO_2

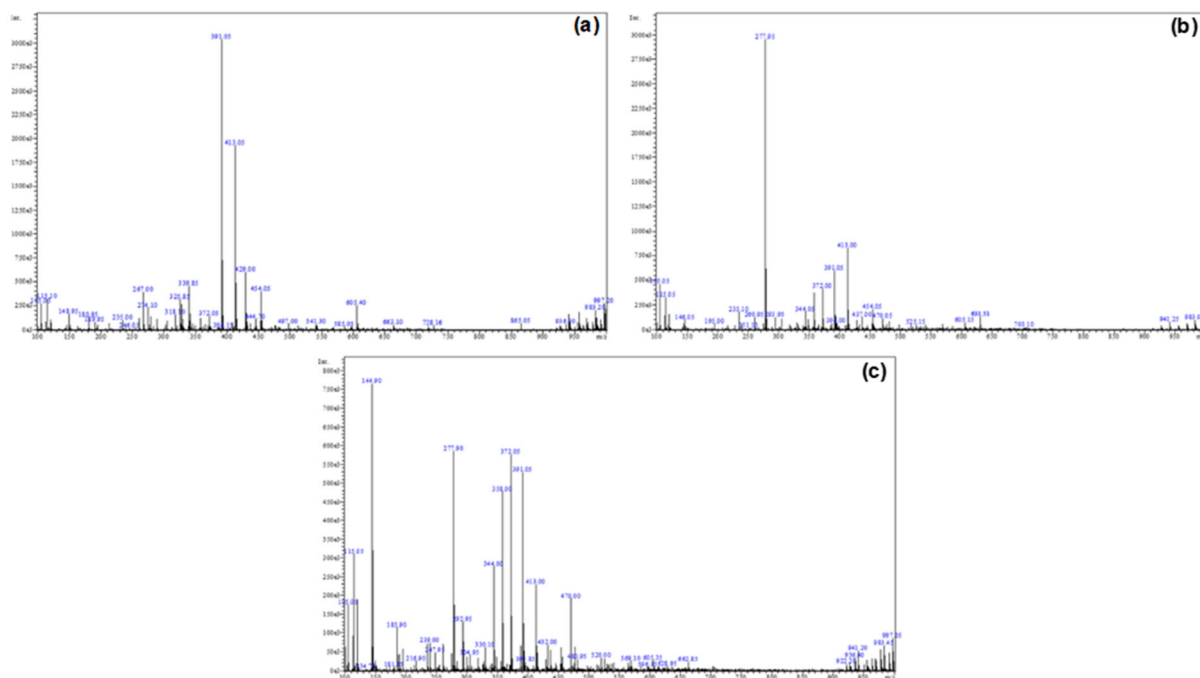


Fig S9. ESI-MS spectra of Schiff base complexes (a) CuBBr, (b) CUBOCH₃, and (c) CuBNO₂

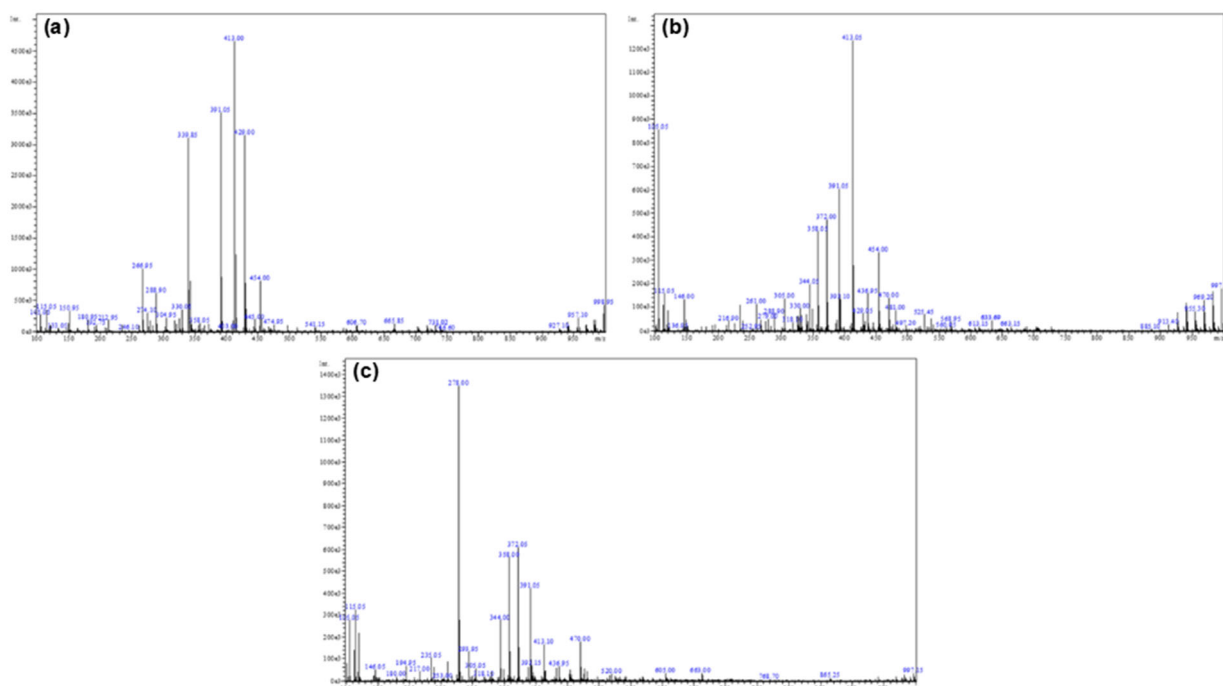


Fig S10. ESI-MS spectra of azo dye complexes (a) CuABr, (b) CuAOCH₃, and (c) CuANO₂

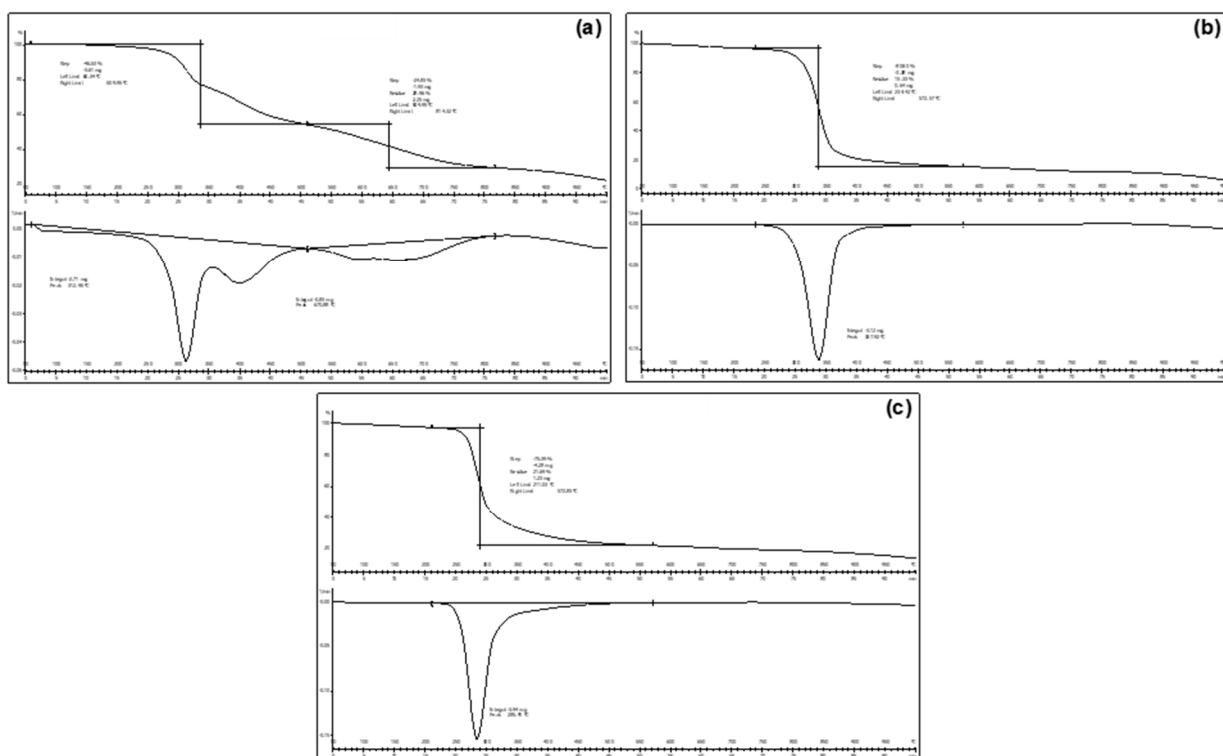


Fig S11. TGA and DTG analysis of Schiff base complexes (a) CuBBr, (b) CUBOCH₃, and (c) CuBNO₂

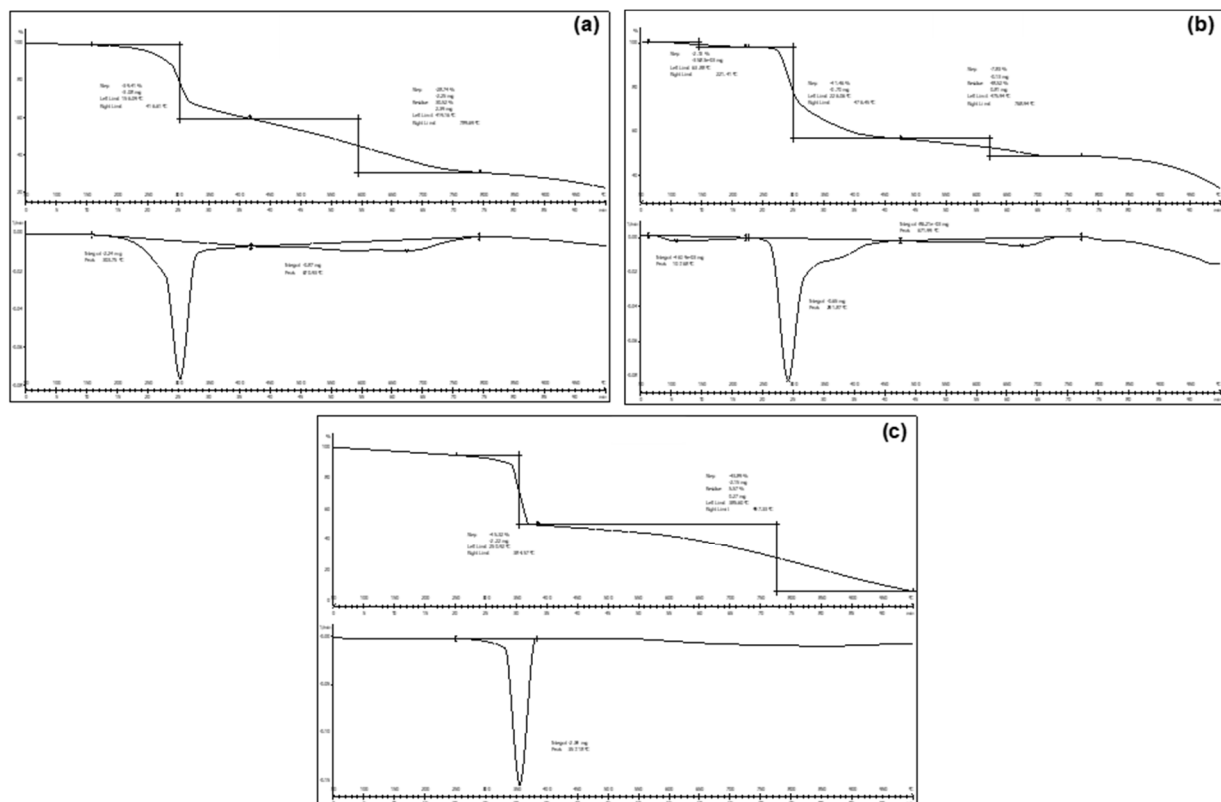


Fig S12. TGA and DTG analysis of azo dye complexes (a) CuABr, (b) CuA OCH₃, and (c) CuANO₂

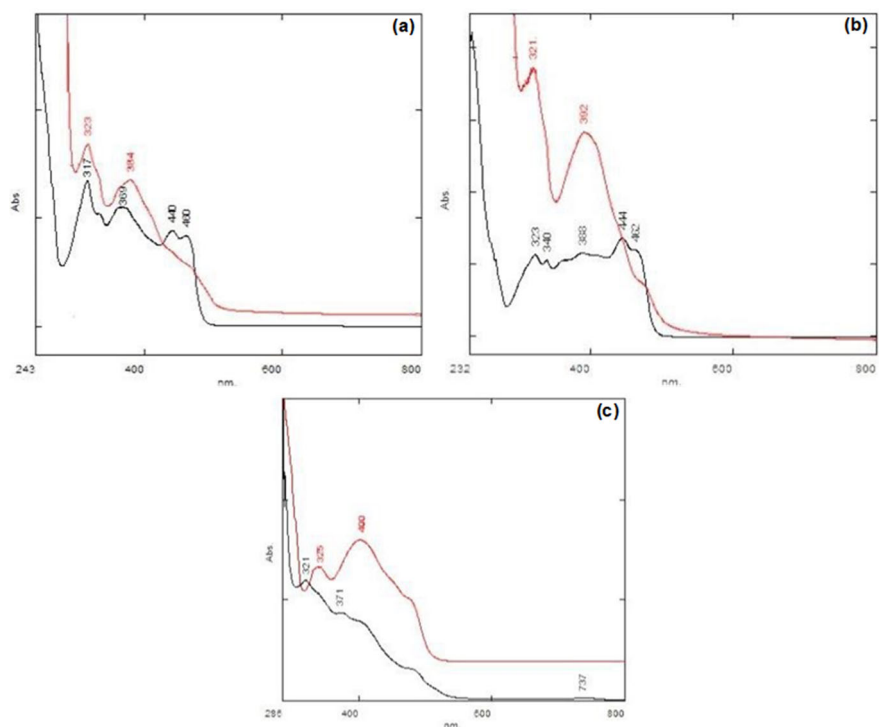


Fig S13. UV-vis spectra of Schiff base ligands (red line) and their copper complexes (black line) for (a) Br, (b) OCH₃, and (c) NO₃ substituents

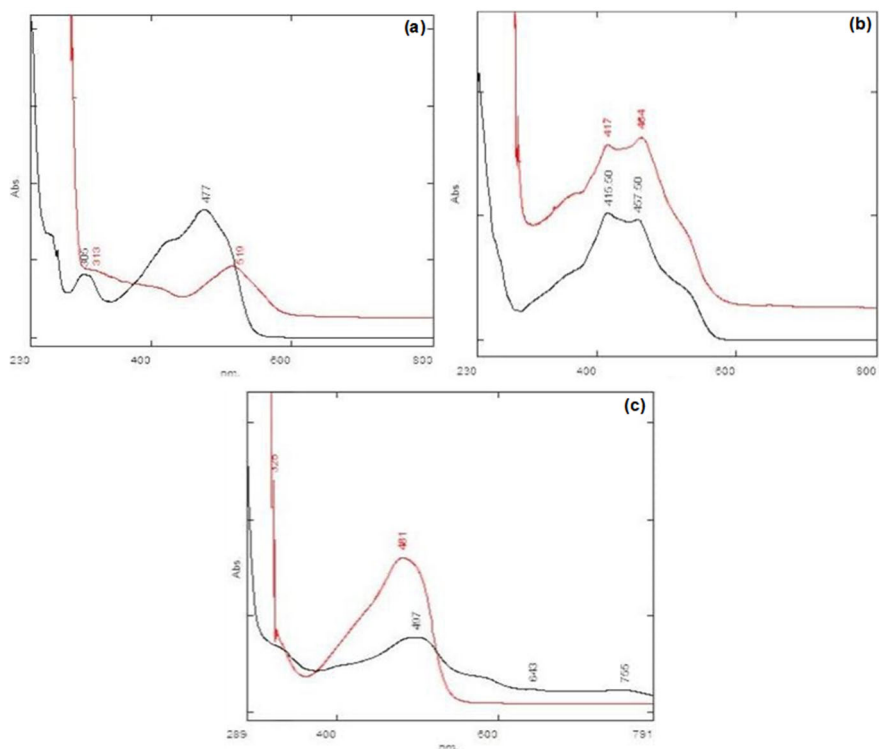


Fig S14. UV-vis spectra of azo dye ligands (red line) and their copper complexes (black line) for (a) Br, (b) OCH₃, and (c) NO₃ substituents