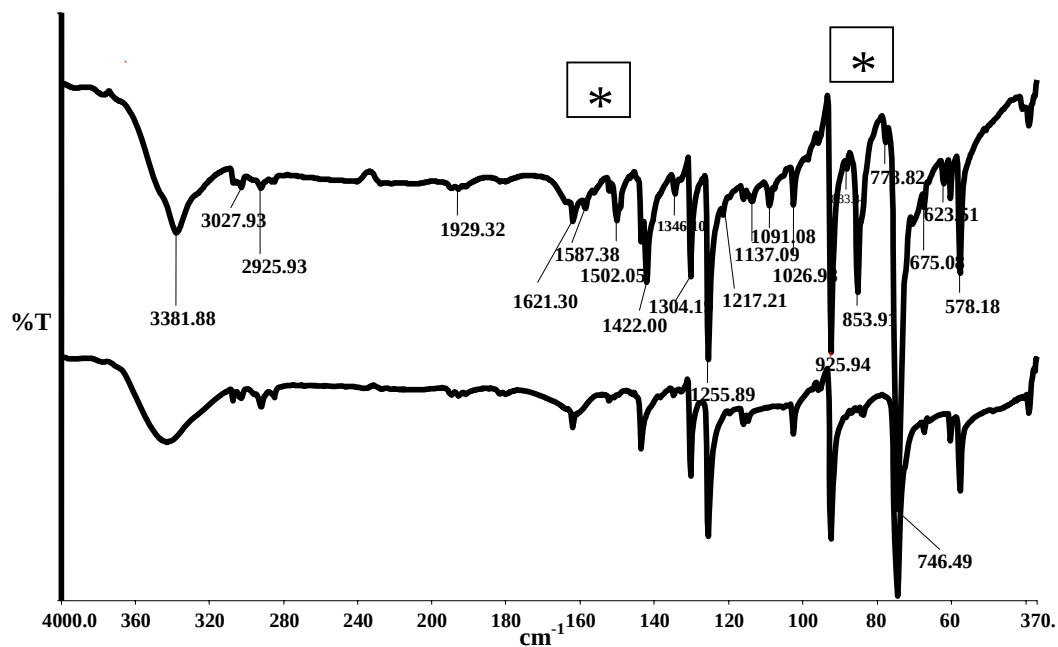
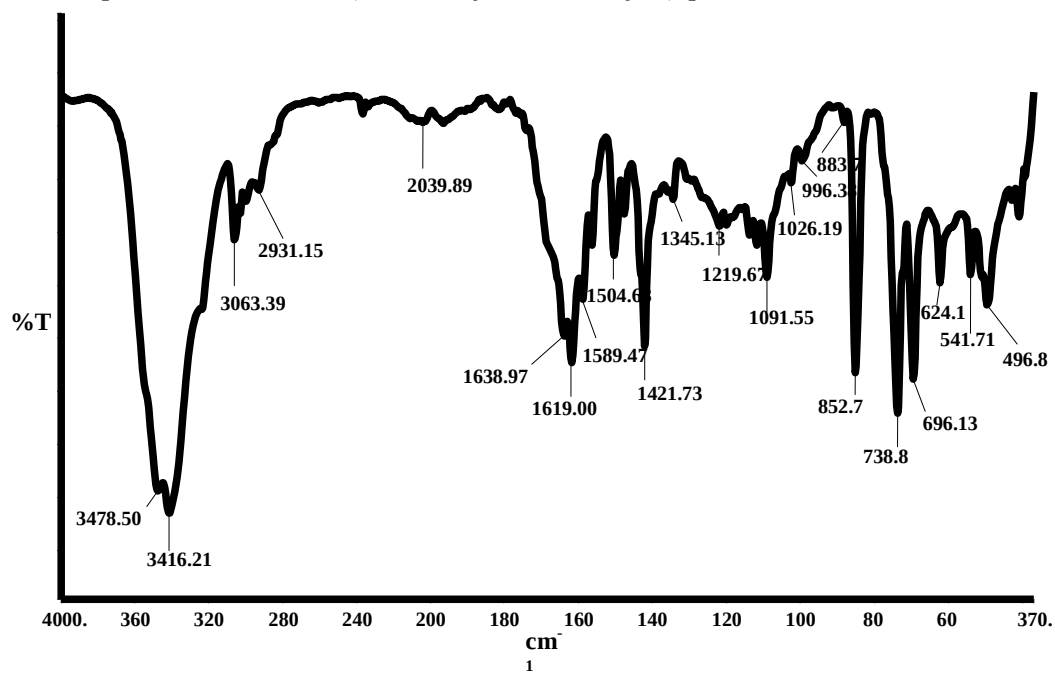


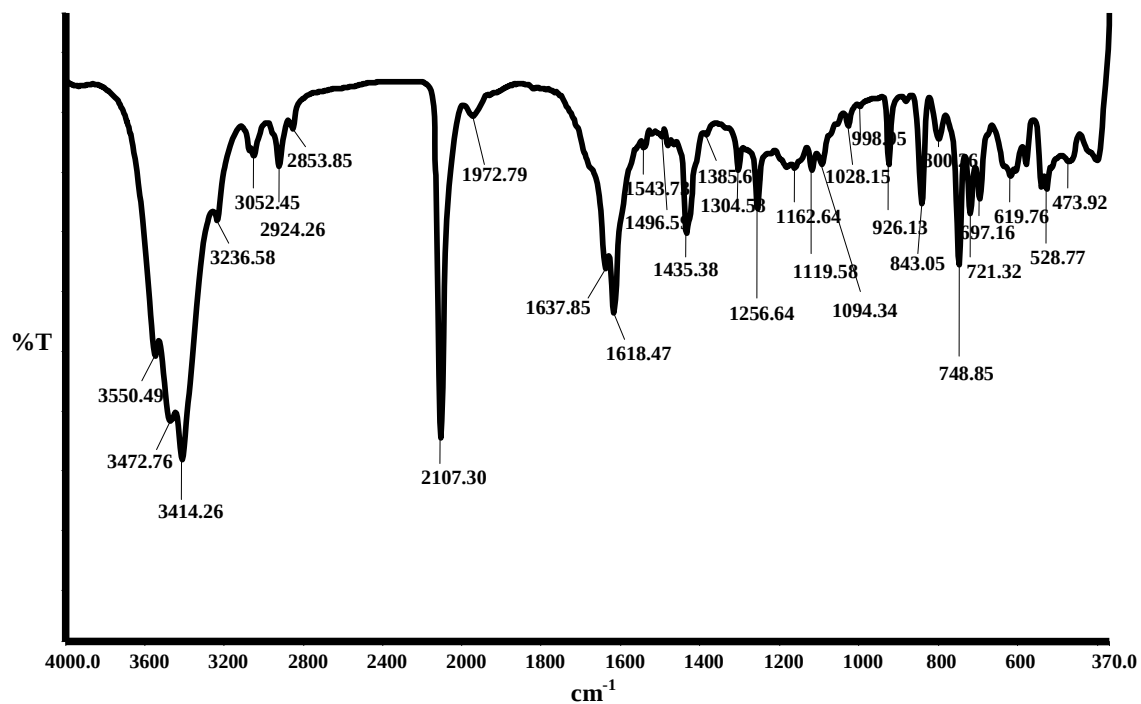
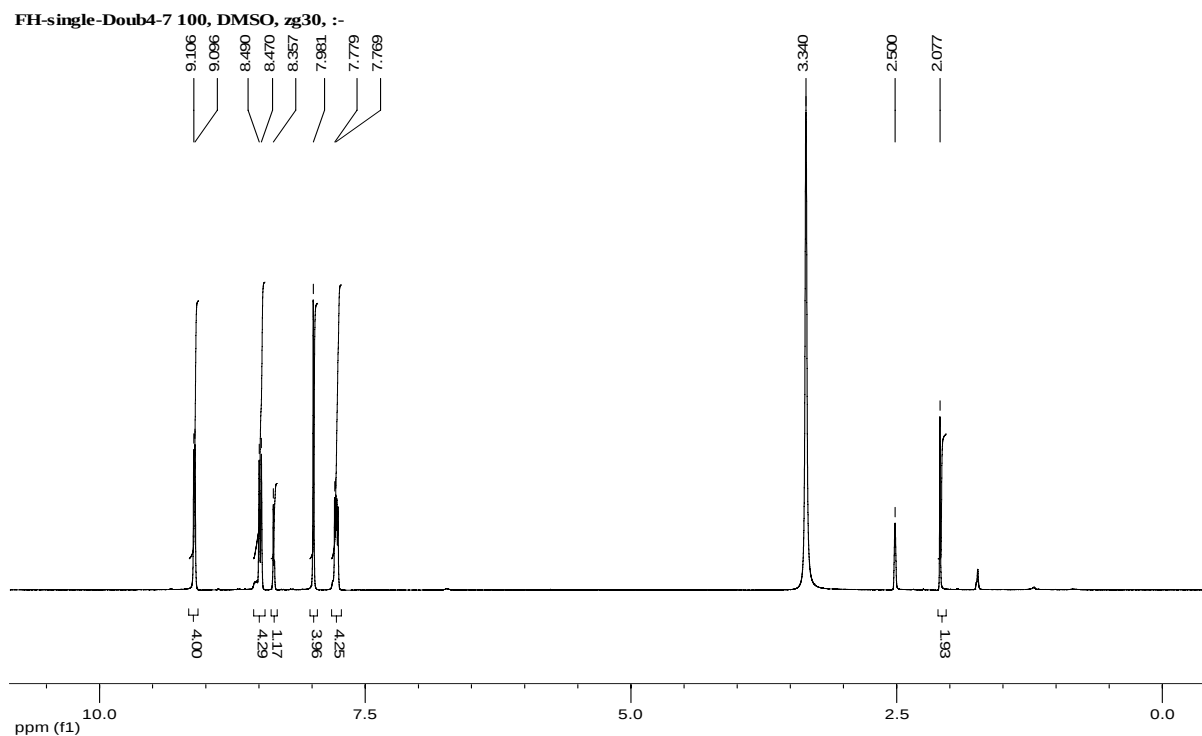
Supplementary Materials

S1: IR spectra of L₁: 4-(9-dianthracenyl-10-(2,3-dimethylacrylic acid)-7-(9-anthracenyl-10-(2,3-dimethylacrylic acid)-1,10-phenanthroline (top) and 9,10-dibromoanthracene (bottom).

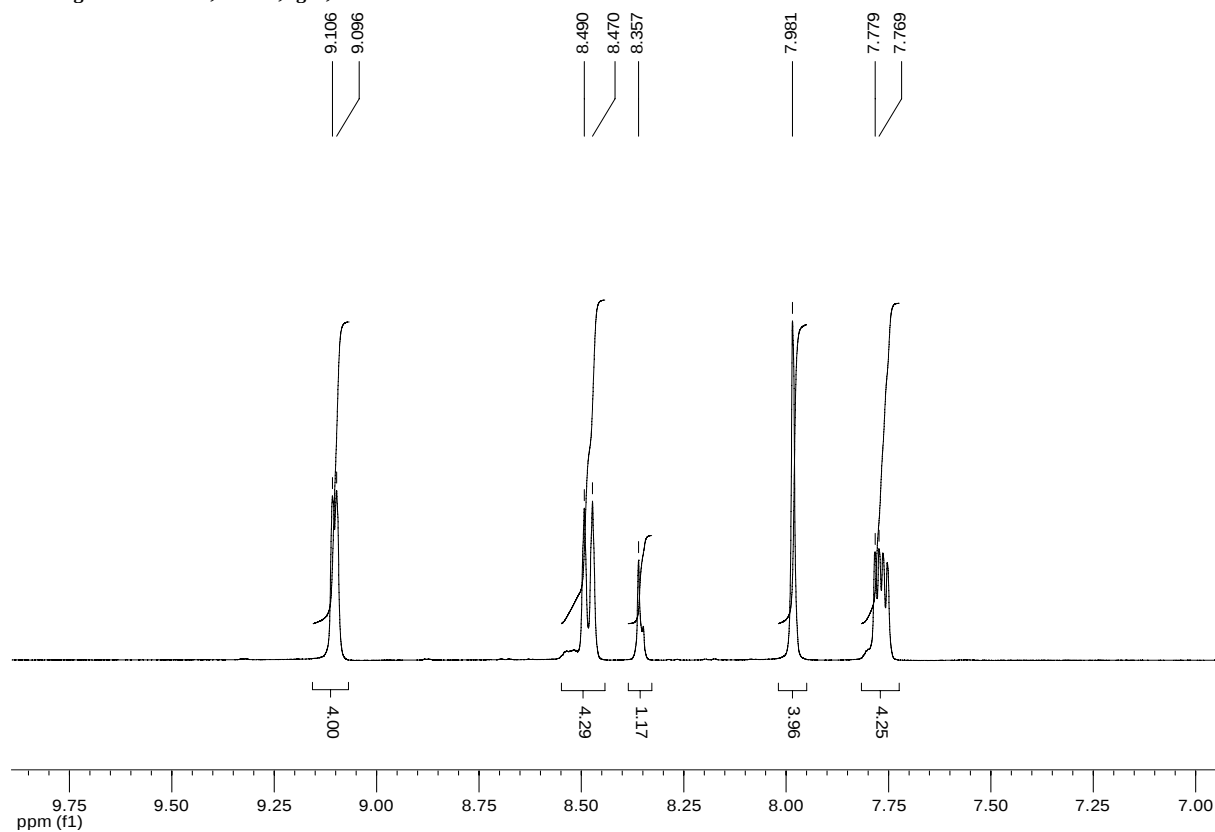
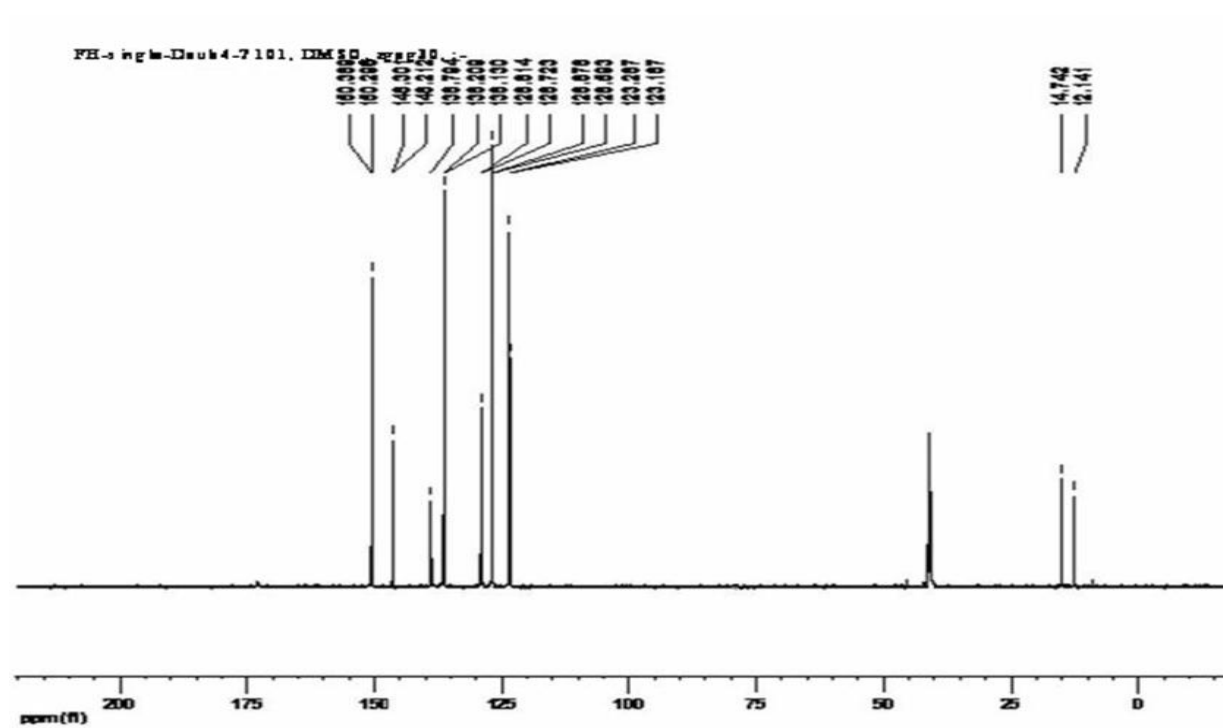


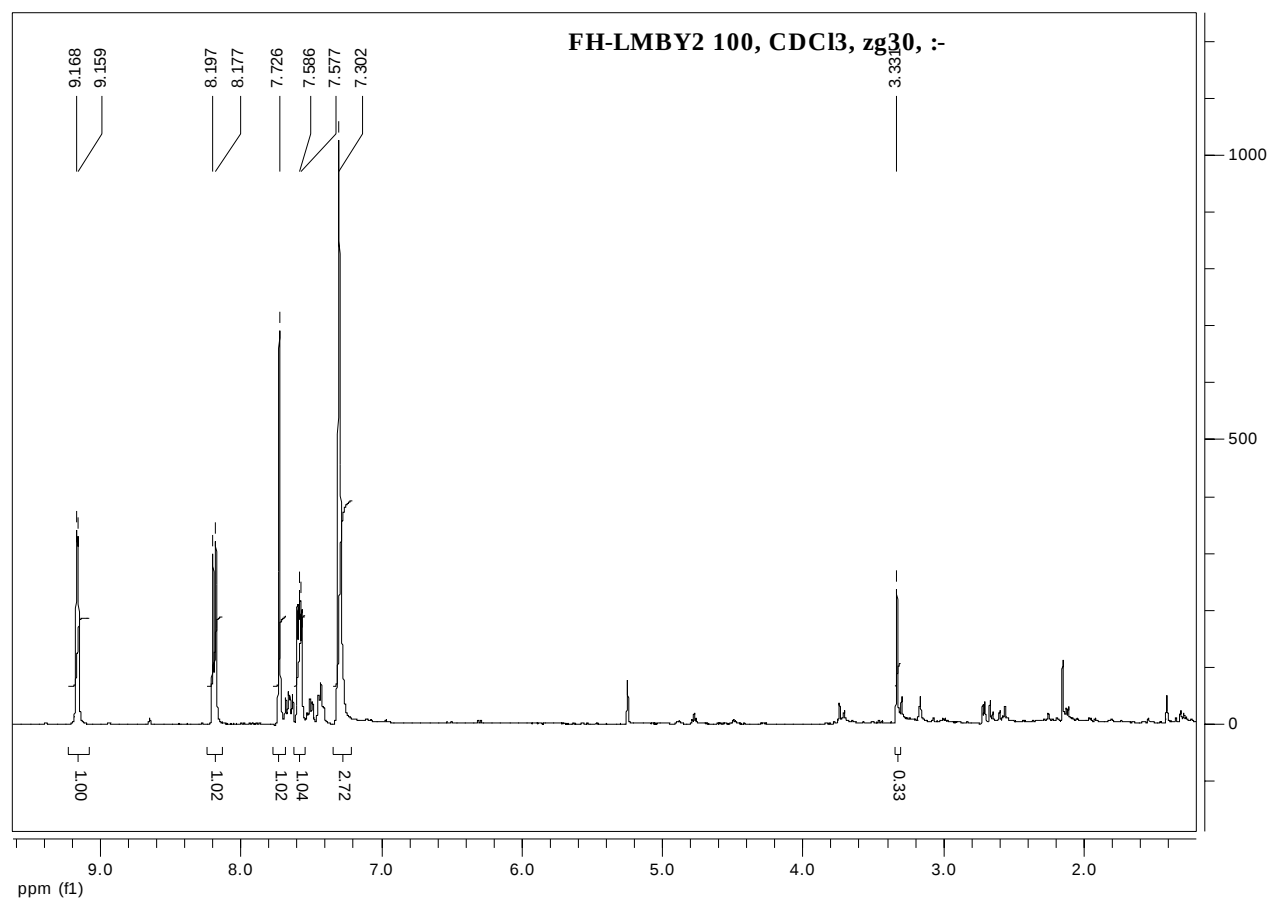
S2: IR spectra of L₂: 4,7-Bis(1-methoxy-1-buten-3-yne)-phenanthroline.



S3: IR spectra of Ru(II)L₁L₂(NCS)₂ complex.**S4:** ¹H NMR spectra of L₁.

FH-single-Doub4-7 100, DMSO, zg30, :-

S5: ¹³C NMR spectra of L₁.

S6: ^1H NMR spectra of L_2 .S7: ^{13}C NMR spectra of L_2 .