CHAPTER V

CONCLUSION

Compound 7 was successfully synthesized from the oxidation of the methyl group to a carboxylic group using $K_2Cr_2O_7$ prior to demetallation of chromium ion. Its structure was confirmed by ¹H-NMR spectroscopy, IR spectrophotometer and mass spectrometry. Compound 8 is the ruthenium complex of compound 7 which was successfully synthesized and characterized by mass spectroscopic and IR spectroscopic, respectively. Both compounds showed similar absorption and emission spectra, corresponding with those of their benchmark compound 6. However, compound 8 showed another absorption peak at 400–800 nm and the red shift of emission maxima due to metal to ligand charge transfer ligands (MLCT) of Ruthenium.

