

Original Article

**THE METAL COMPLEXES OF 1-(PHENYLAMINO)-4, 4, 6-TRIMETHYL-3,4-DIHYDROPYRIMIDINE-2-(1H)-THIONE: PREPARATION, PHYSICAL, SPECTROSCOPIC STUDIES AND ANTIBACTERIAL PROPERTIES**

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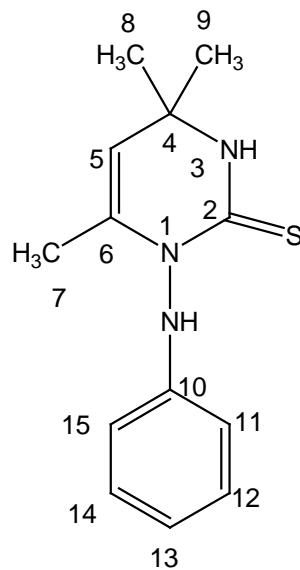


Fig. 1: Structure of Ligand (Hpmpt)

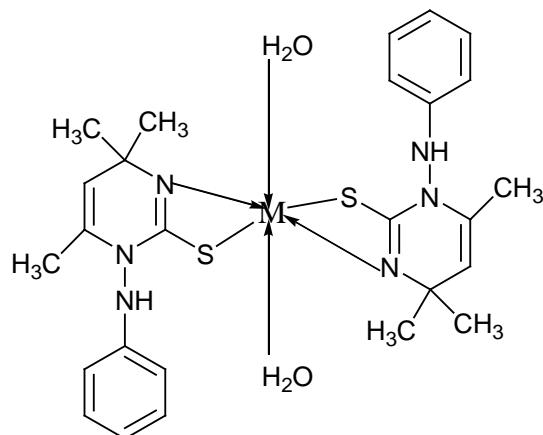
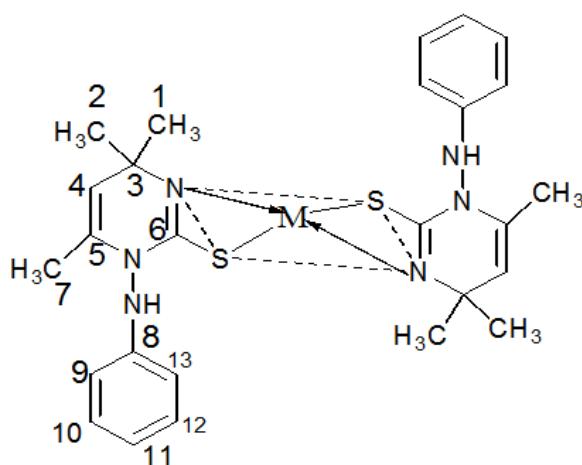
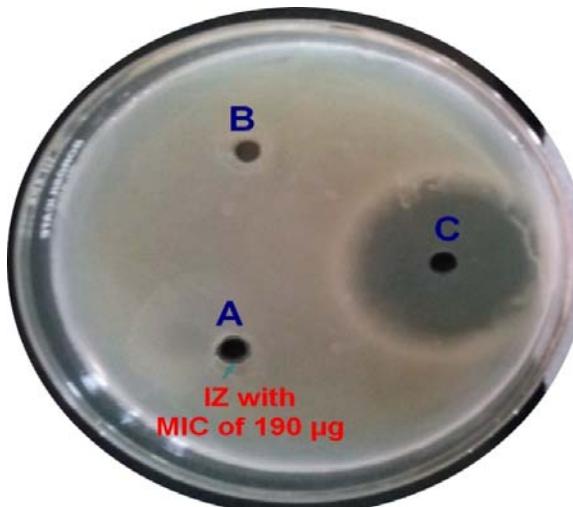
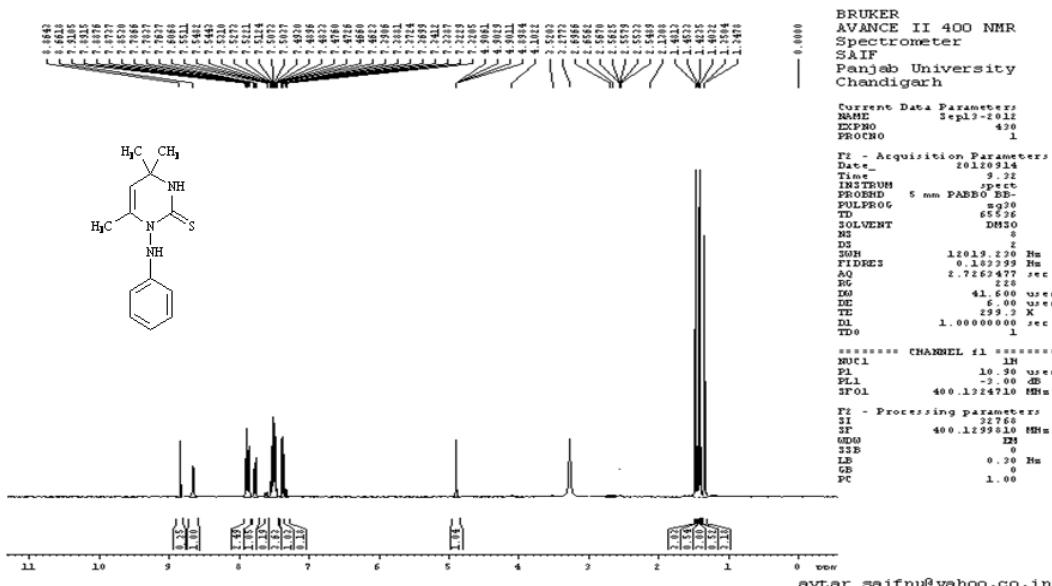
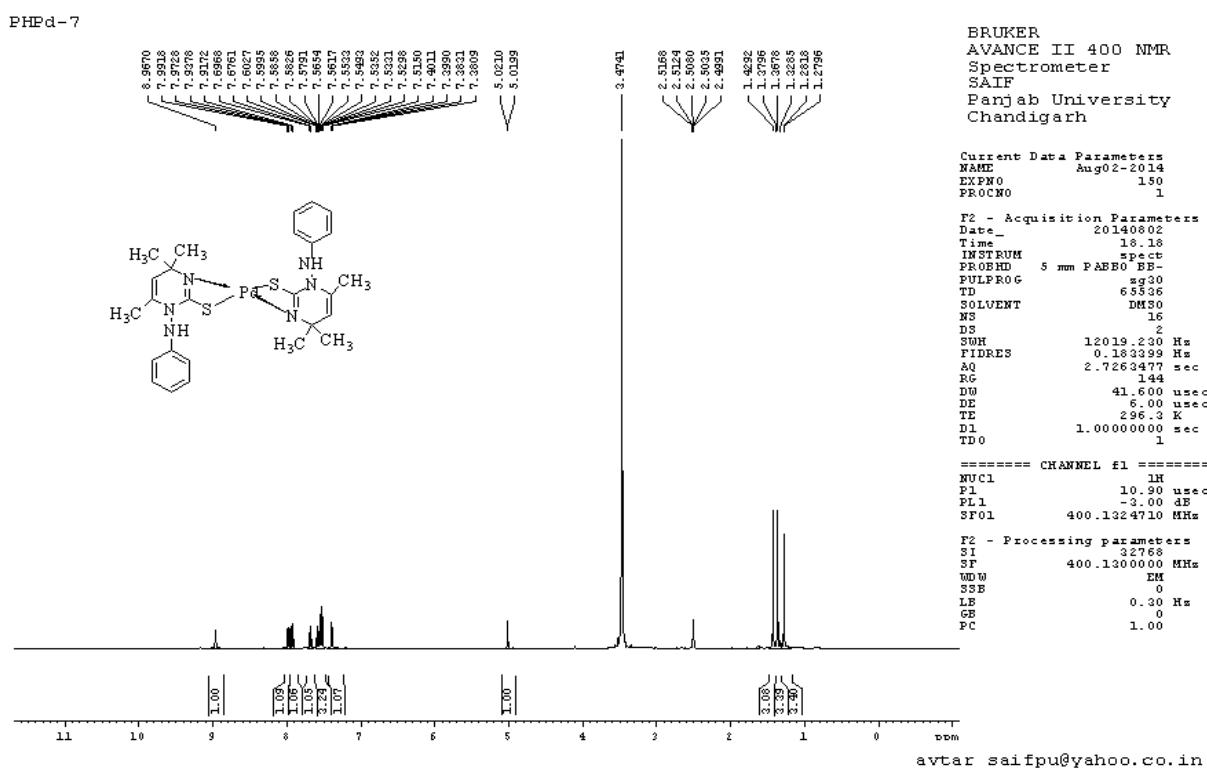
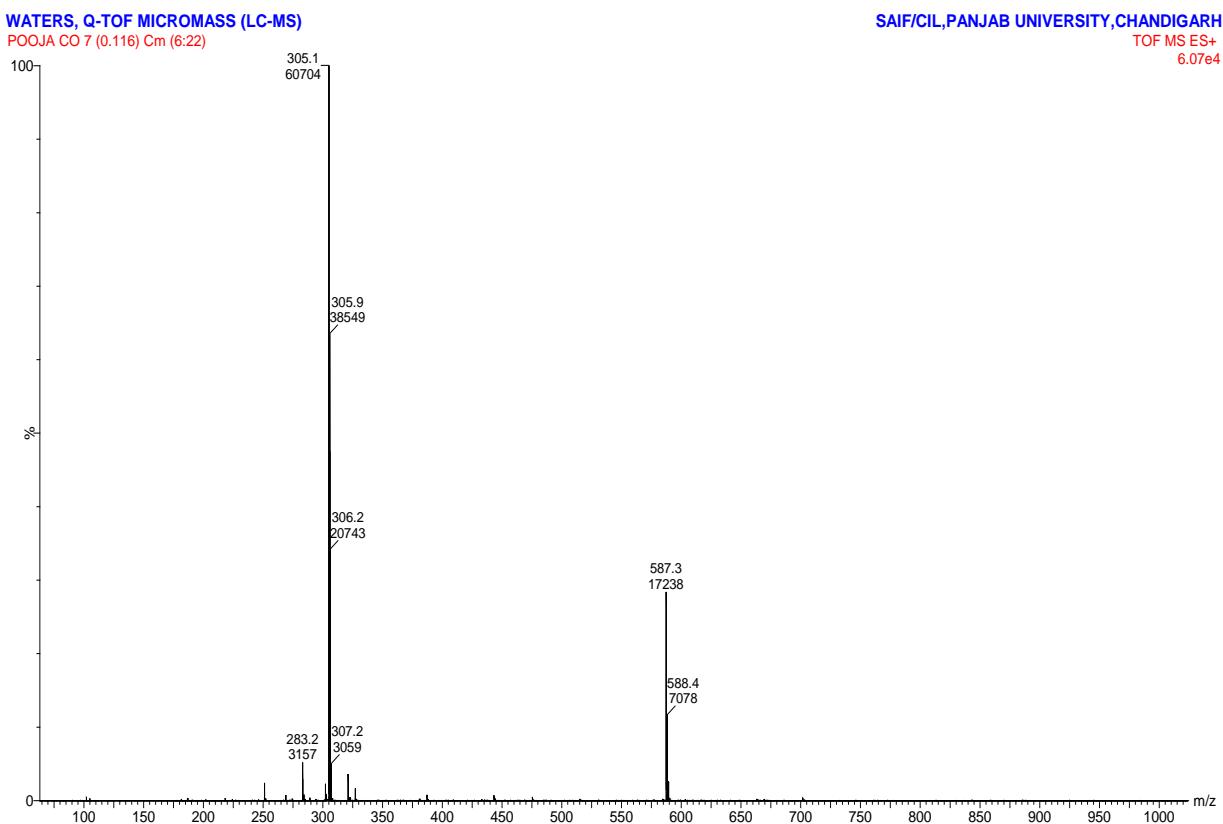
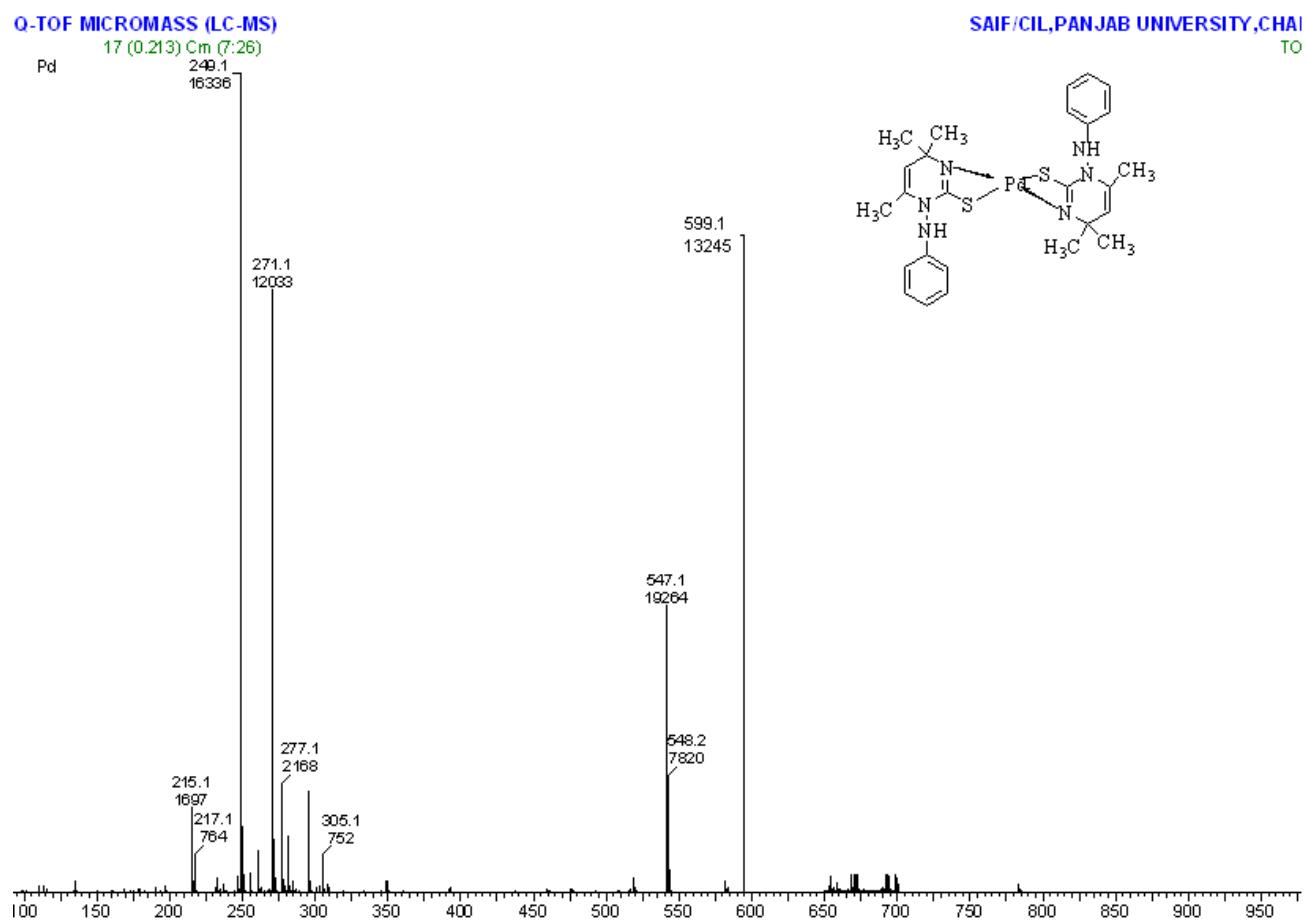


Fig. 2: Structure of  $[M(pmpmt)_2(H_2O)_2]$  ( $M(II) = Mn, Co, Ni, Cu$ )

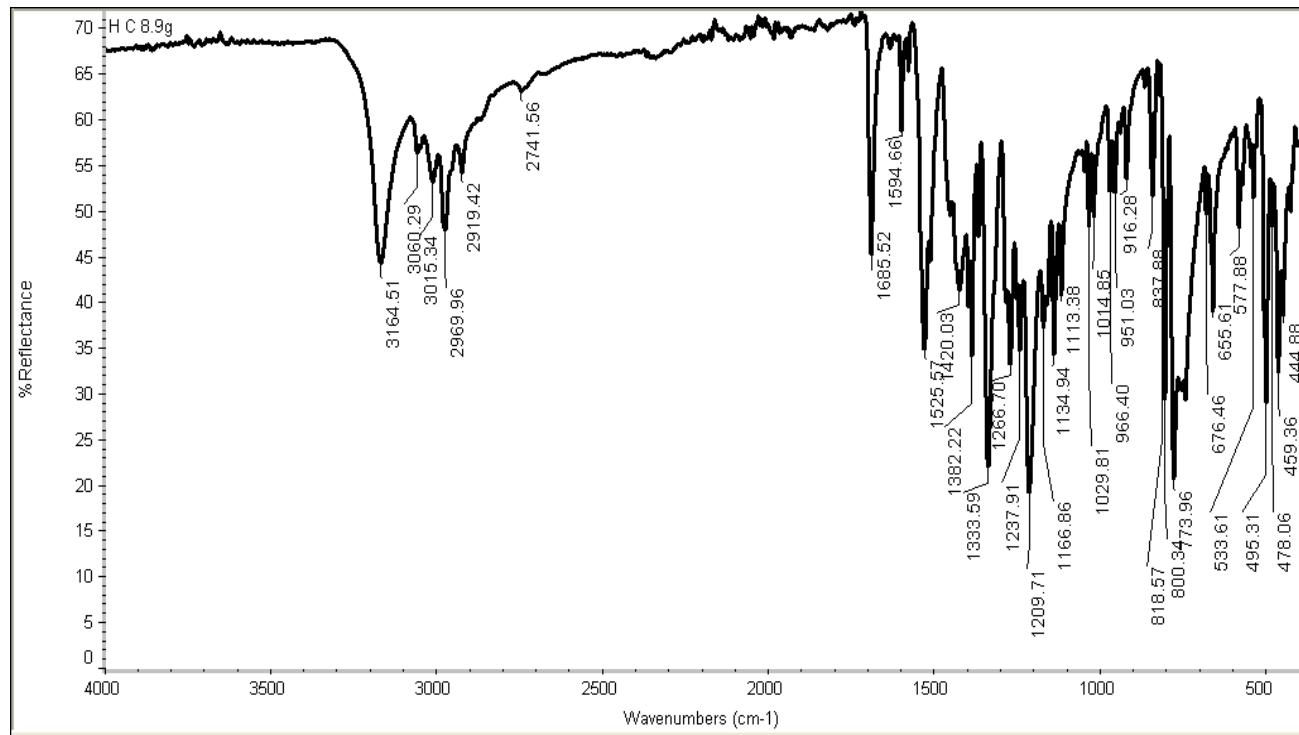
Fig. 3: Structure of  $[\text{Zn}(\text{pmpt})_2]$ ,  $[\text{Pd}(\text{pmpt})_2]$ ,  $[\text{Cd}(\text{pmpt})_2]$ Fig. 2: Agar plate exhibiting the (A) Inhibition zone produced revealing the MIC value of  $190\mu\text{g}$  for the compound, (B) No inhibition zone produced when DMSO alone is poured in the well and (C) Inhibition zone produced when similar quantity i. e.  $190\mu\text{g}$  of chloramphenicol is poured in well**NMR of Ligand**

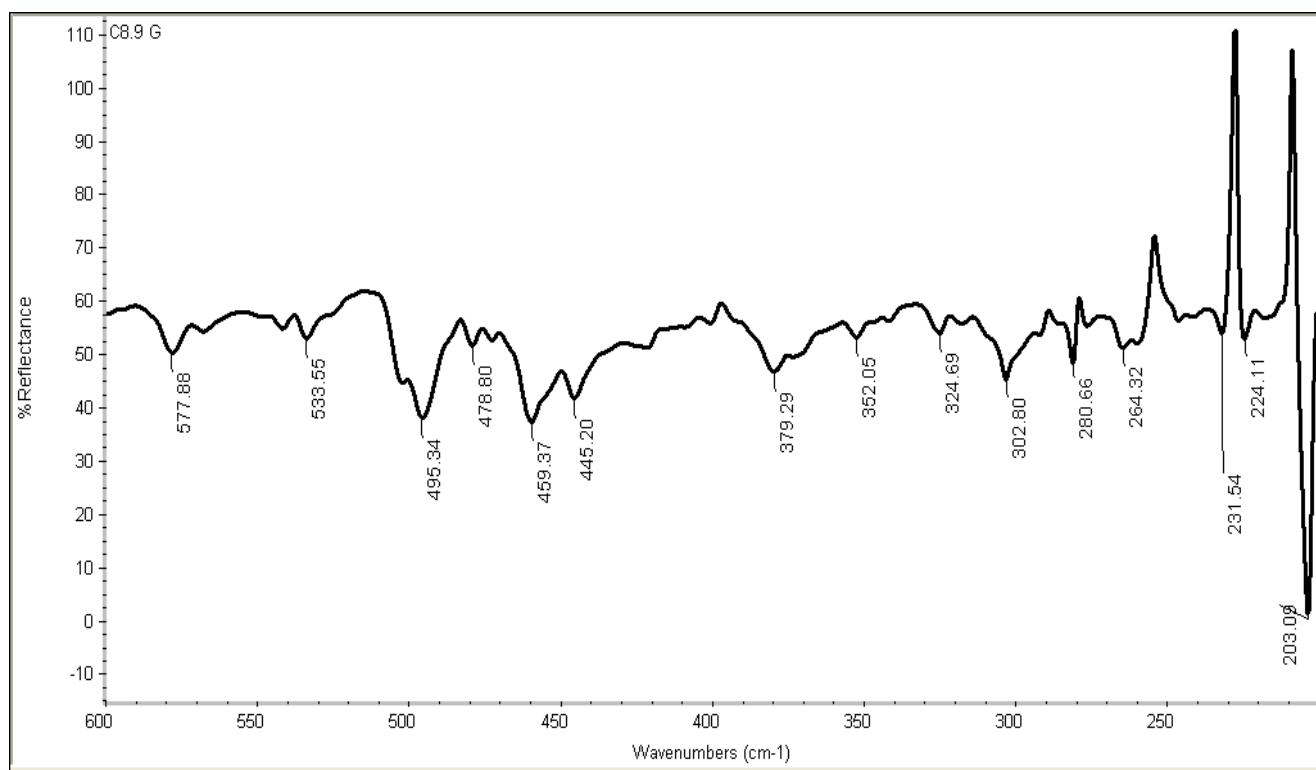
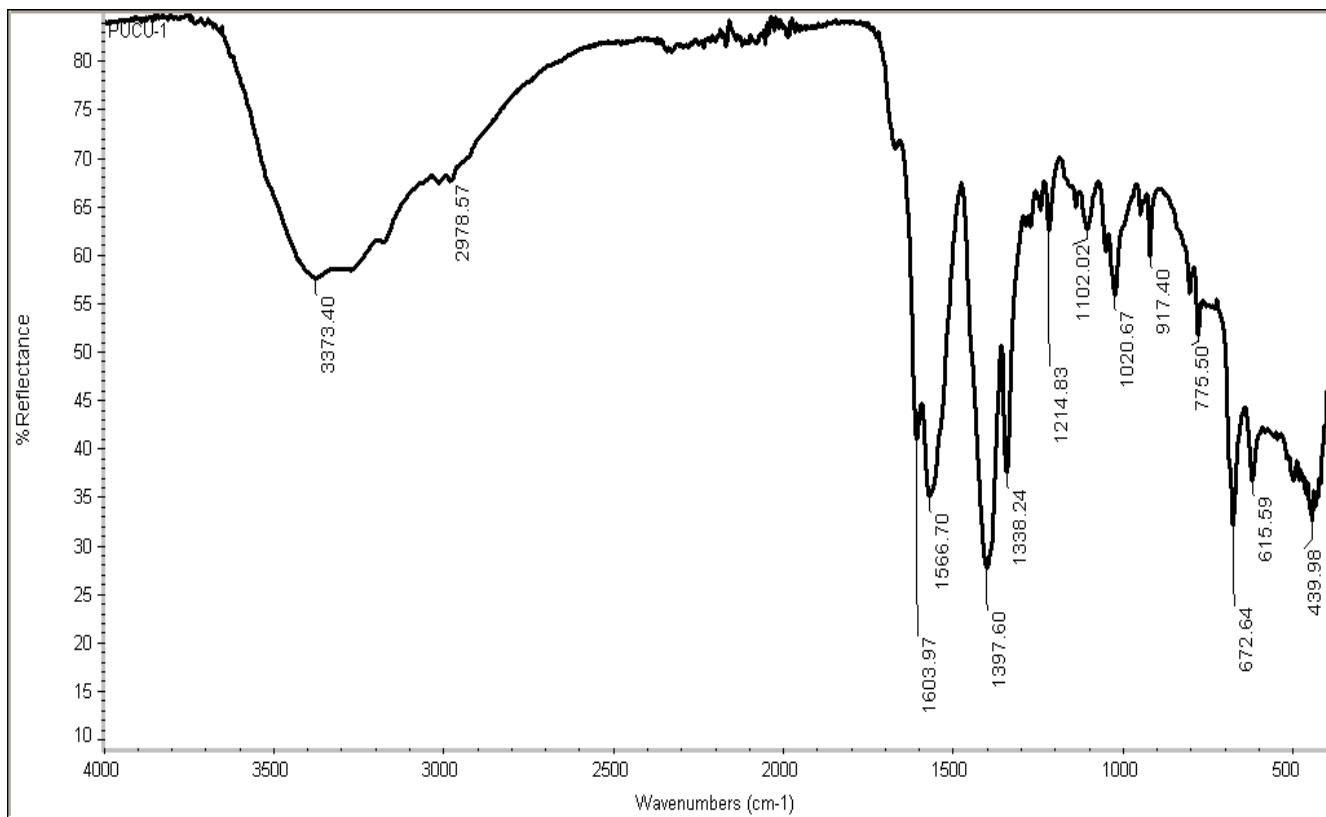
**NMR of Pd complex****Mass of Co complex**

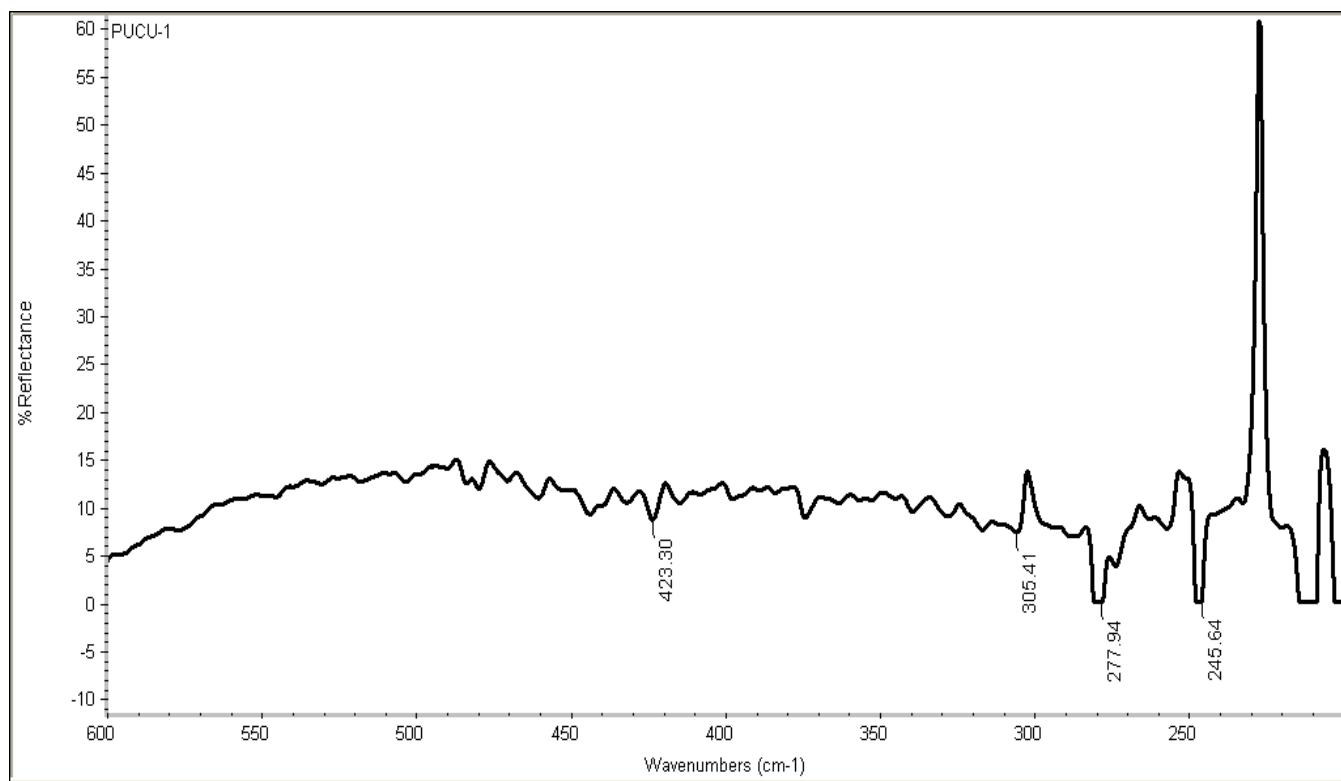
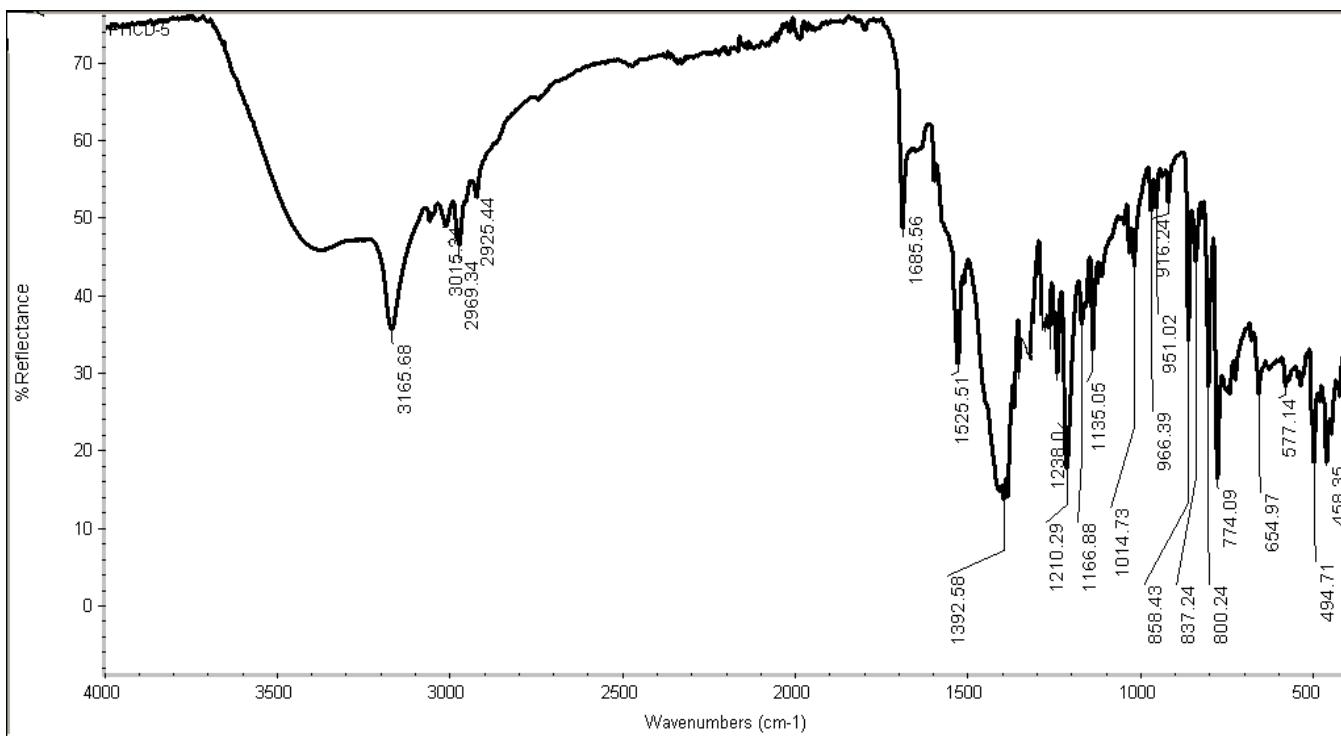
## Mass Spectrum of Pd complex



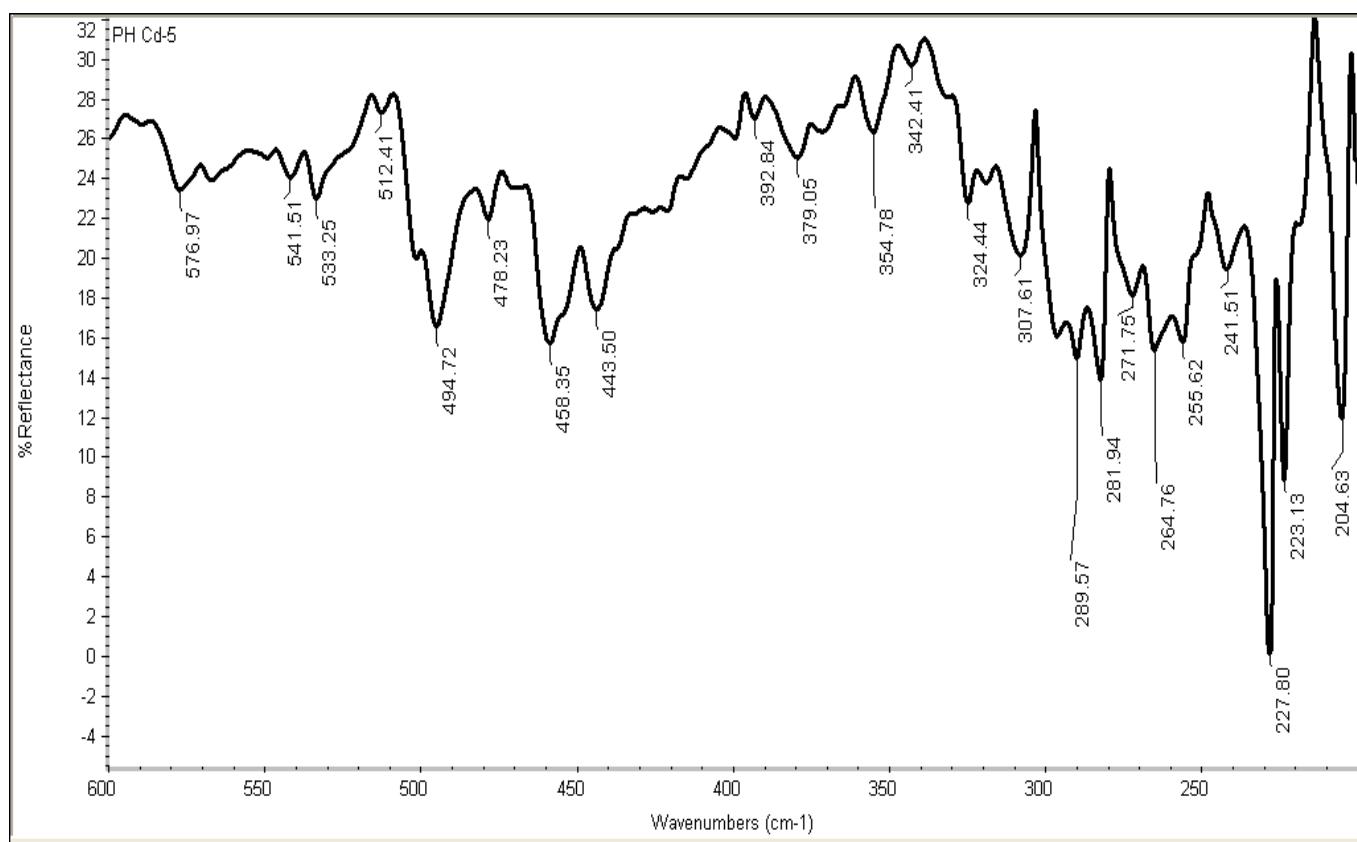
#### IR of Ligand (upper range)



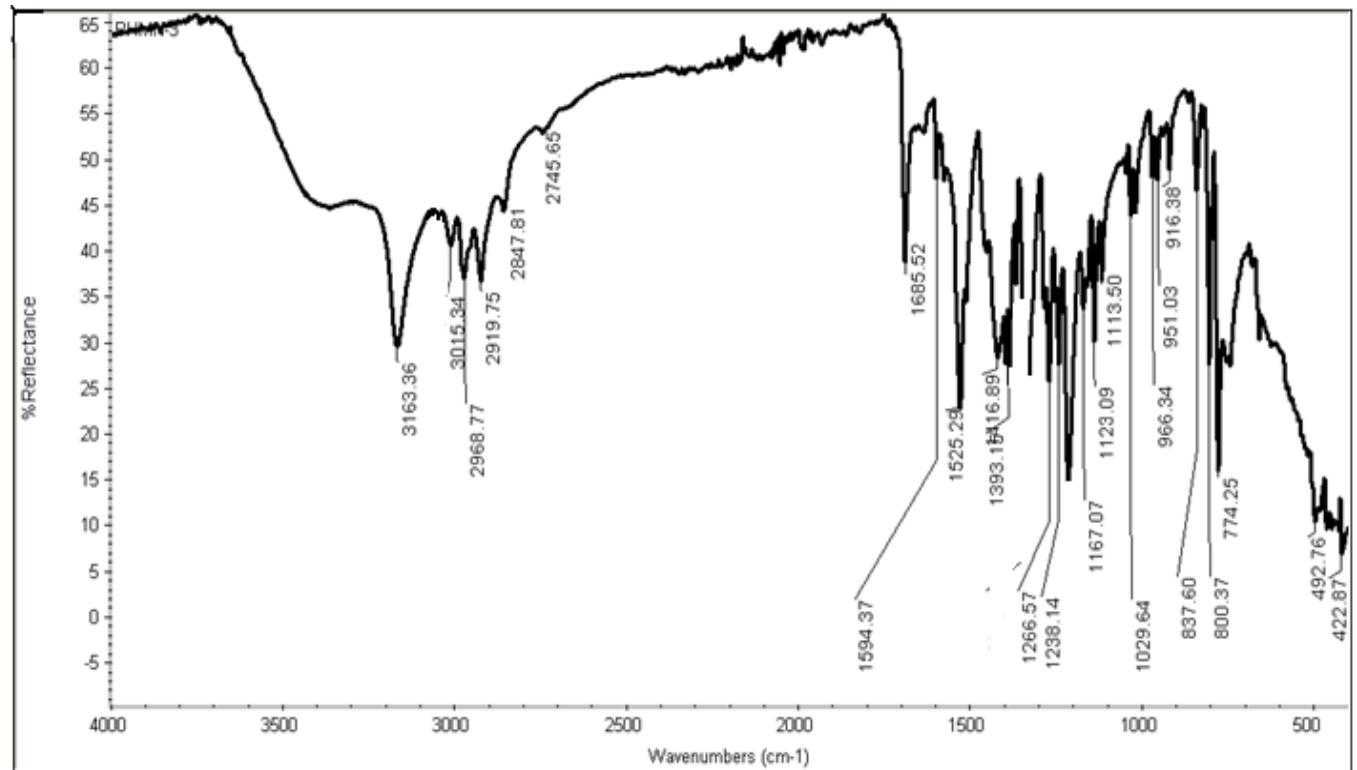
**IR of Ligand (low range)****IR of Cu complex (upper range)**

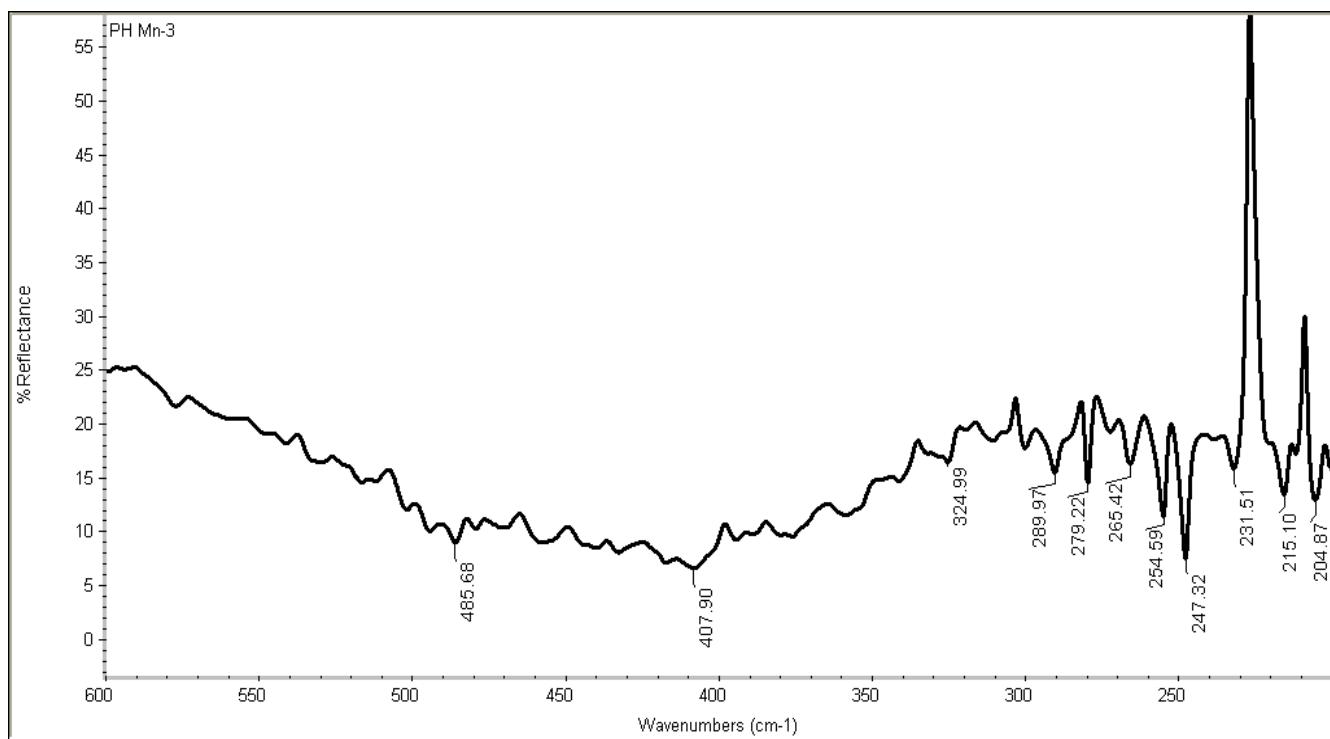
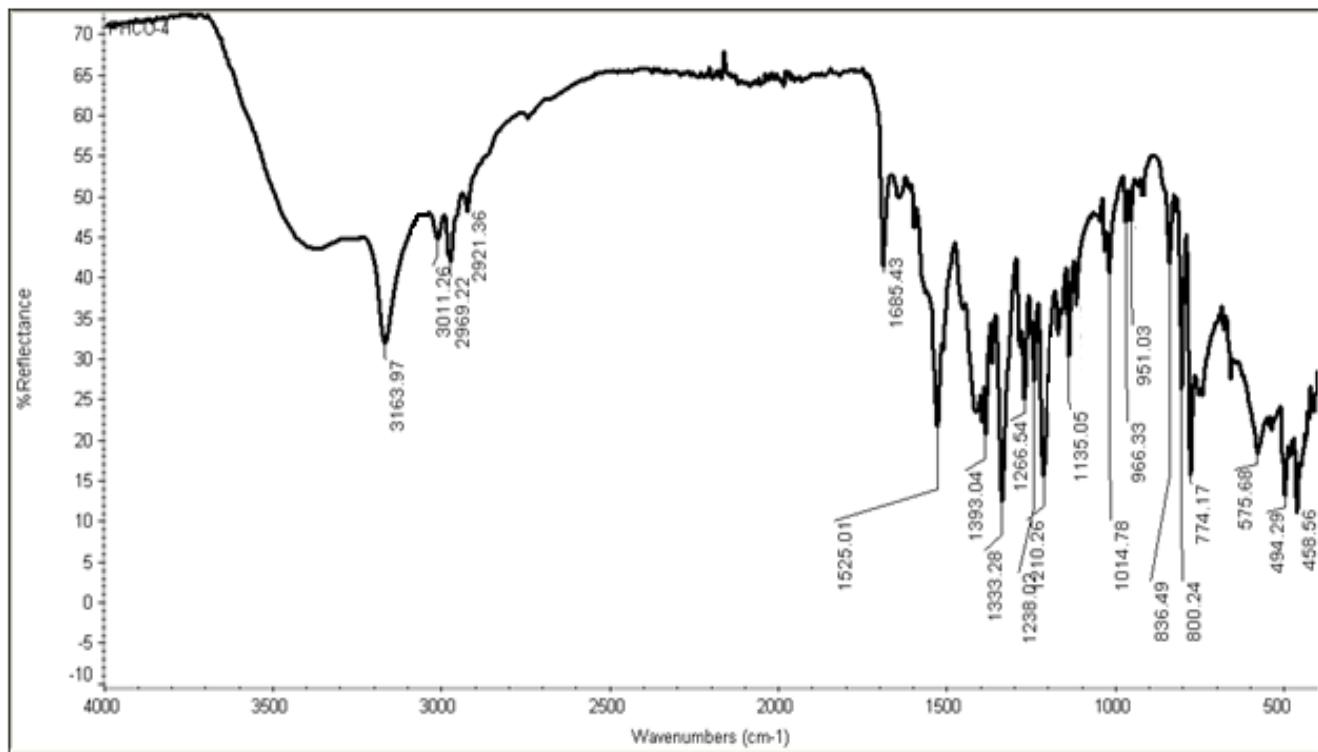
**IR of Cu complex (Low range)****IR of Cd complex**

## IR of Cd complex (low range)



## IR of Mn complex (upper range)



**IR of Mn complex (Low Range)****IR of Co complex (upper range)**

## IR of Co complex (Low range)

