

**Table 1.SI :** Analysis of the Raman spectrum of  $[\text{Mn}^{\text{III}}(\text{TTP})(\text{SO}_3\text{CF}_3)]$

Groups	Band Position ( $\text{cm}^{-1}$ )	Assignements
$\text{C}_\beta\text{C}_\beta$	1557	stretching vibration
Phenyl	1367	stretching vibration
$\text{C}_\beta\text{-H}$	1082	bending deformation
Pyrole + Phenyl	1029	stretching vibration
Phenyl	713	stretching
Mn-N	392	stretching vibration