

Supporting information

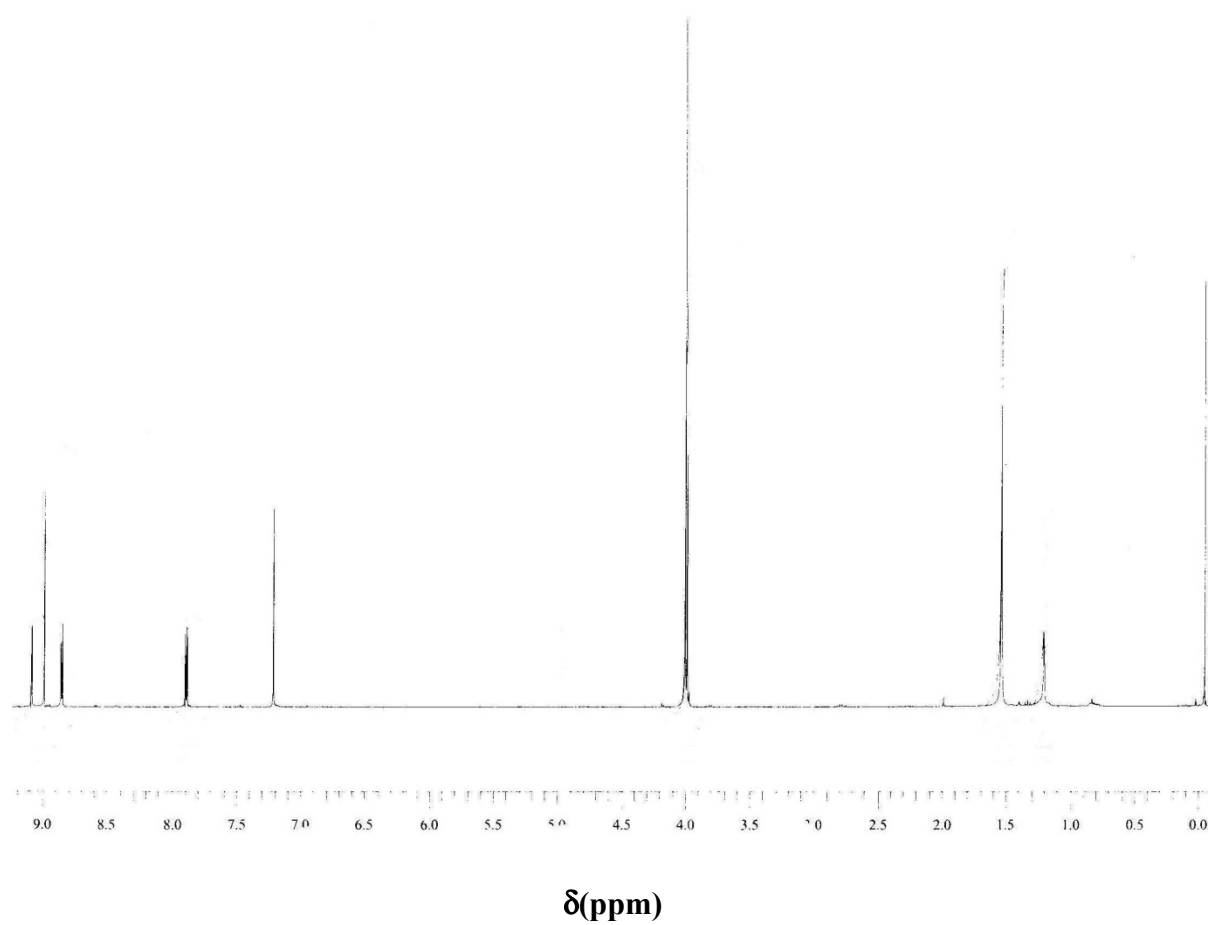
New Family of Heteroleptic Ruthenium(II) Polypyridyl Complexes For Sensitization of Nanocrystalline TiO₂

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V.G. Reddy,^a Jun-Ho Yum,^b M. Gratzel^b and M.K. Nazeeruddin^{*b}

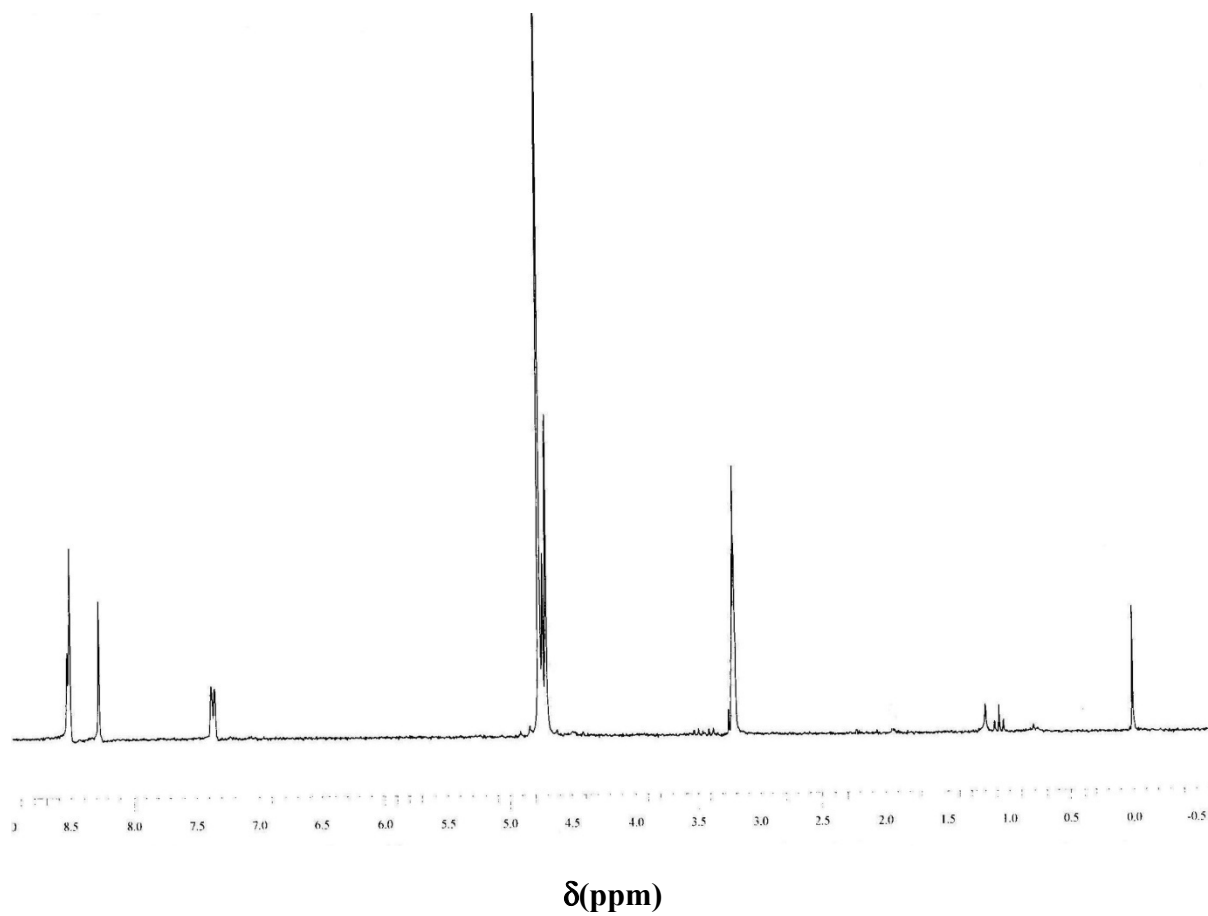
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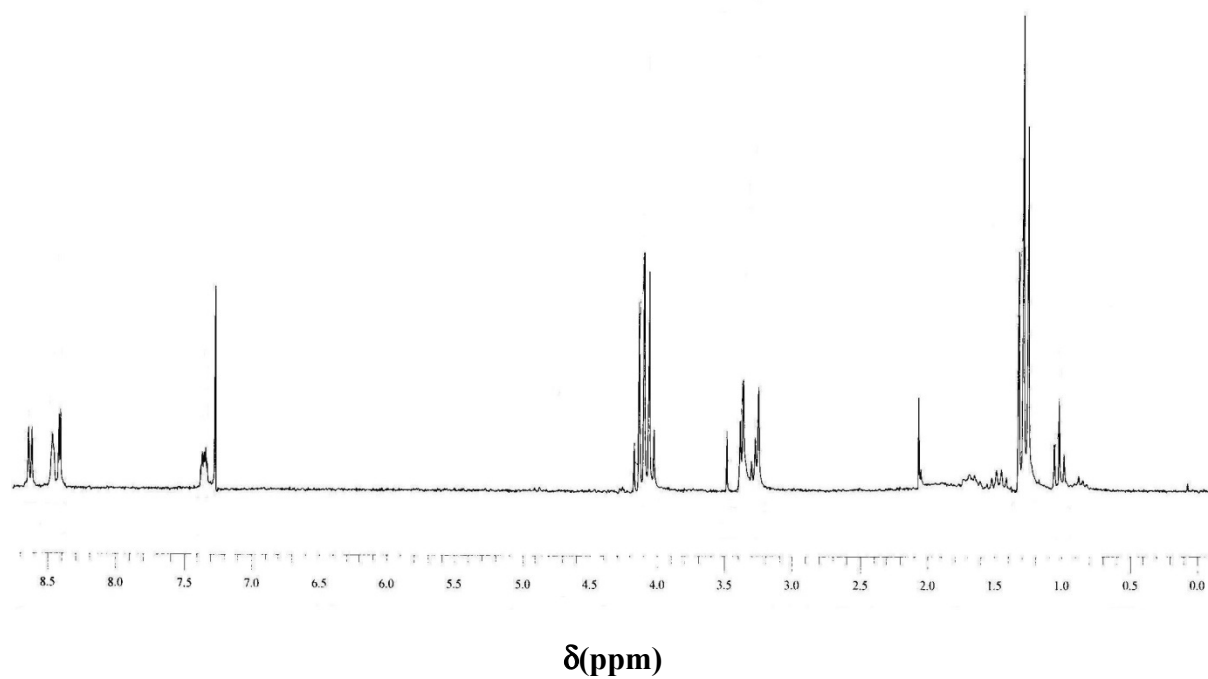
^1H NMR Spectrum of **Tpy-ester** in CDCl_3



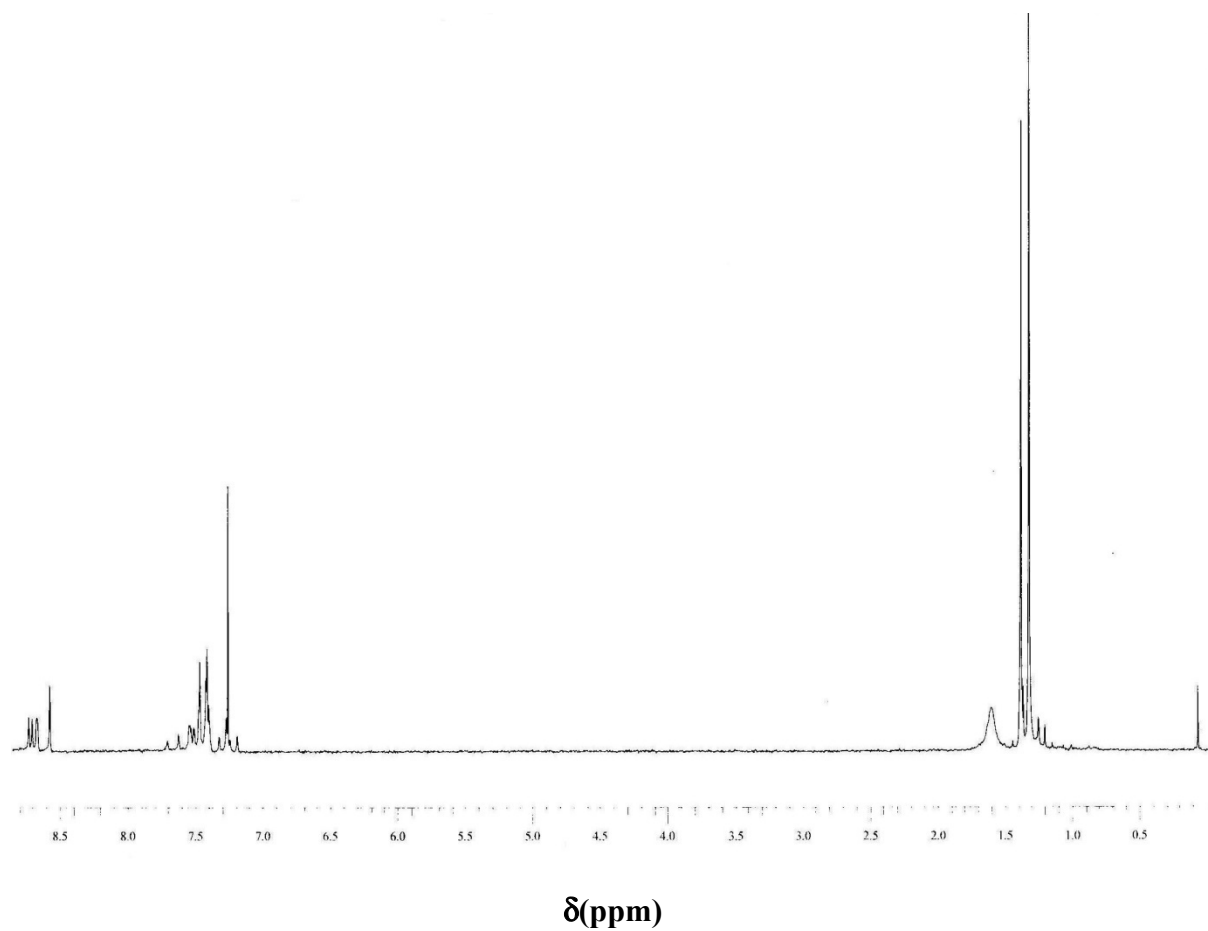
^1H NMR Spectrum of **Tpy-alcohol** in CDCl_3



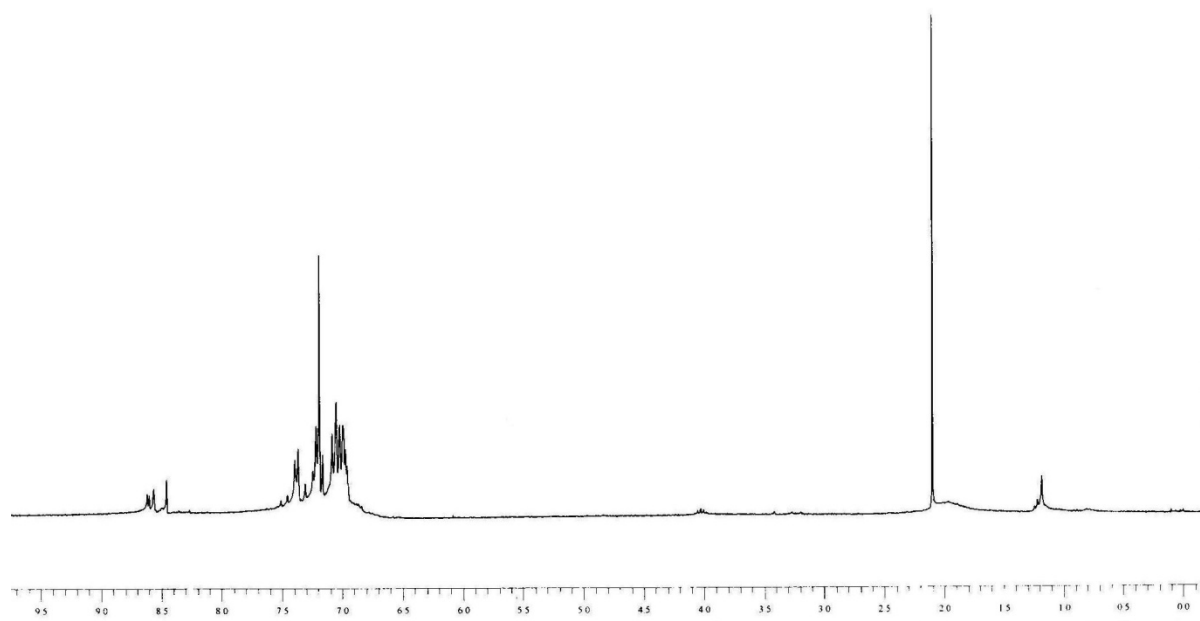
^1H NMR Spectrum of **Tpy-phosphonate** in CDCl_3



^1H NMR Spectrum of **m-BL-5** ligand in CDCl_3

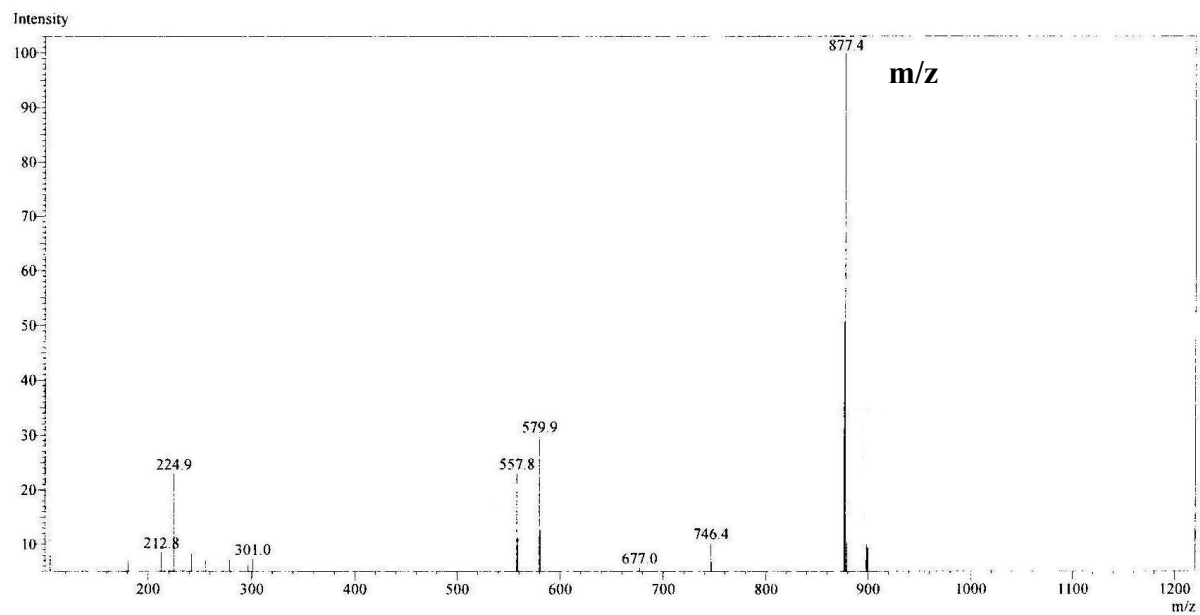


^1H NMR Spectrum of **m-BL-6** ligand in CDCl_3

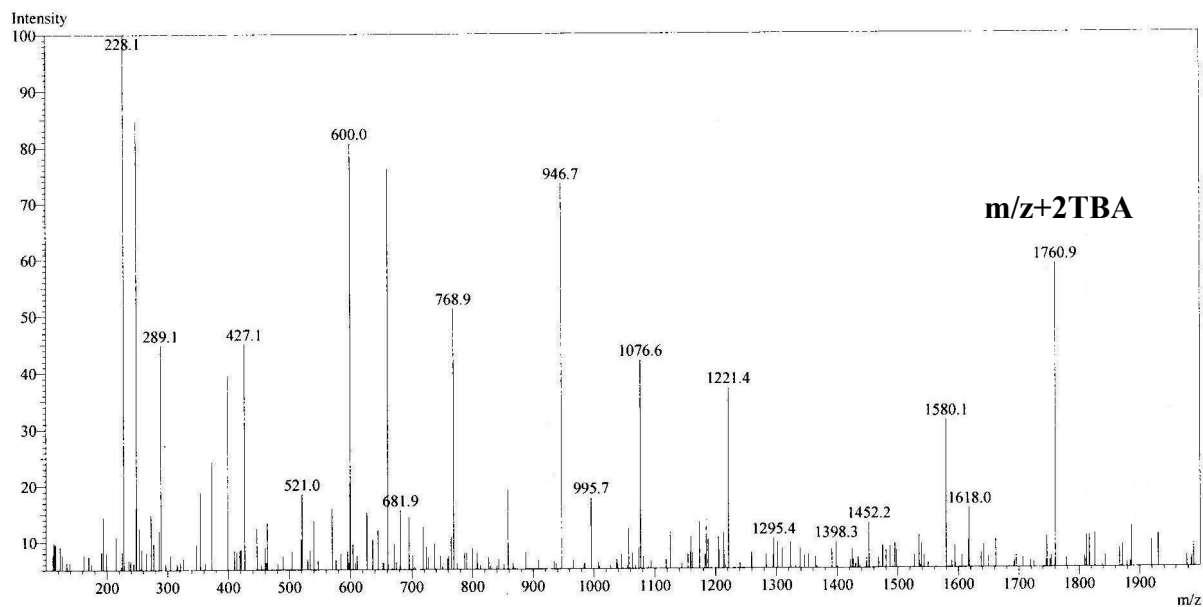


$\delta(\text{ppm})$

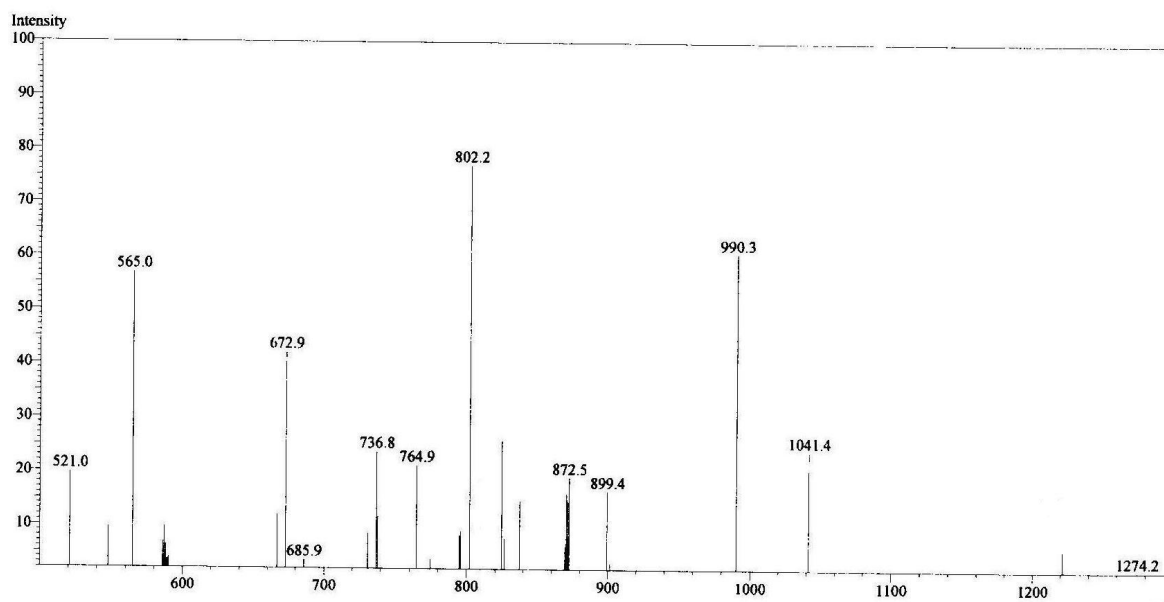
Mass Spectrum of **m-BL-5** Ligand



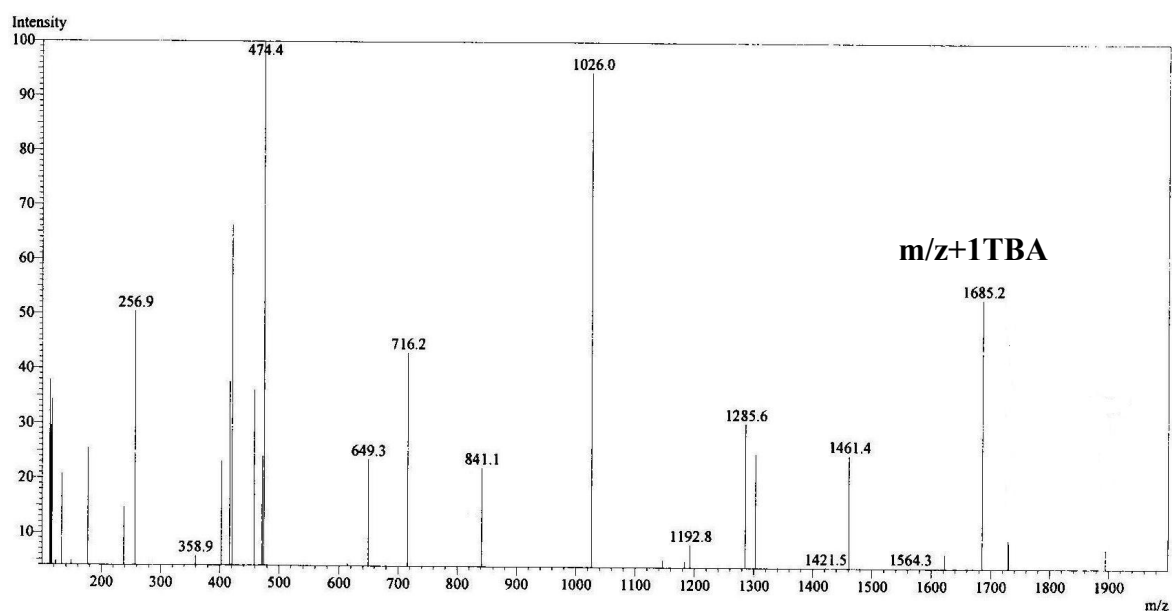
Mass Spectrum of m-BL-5



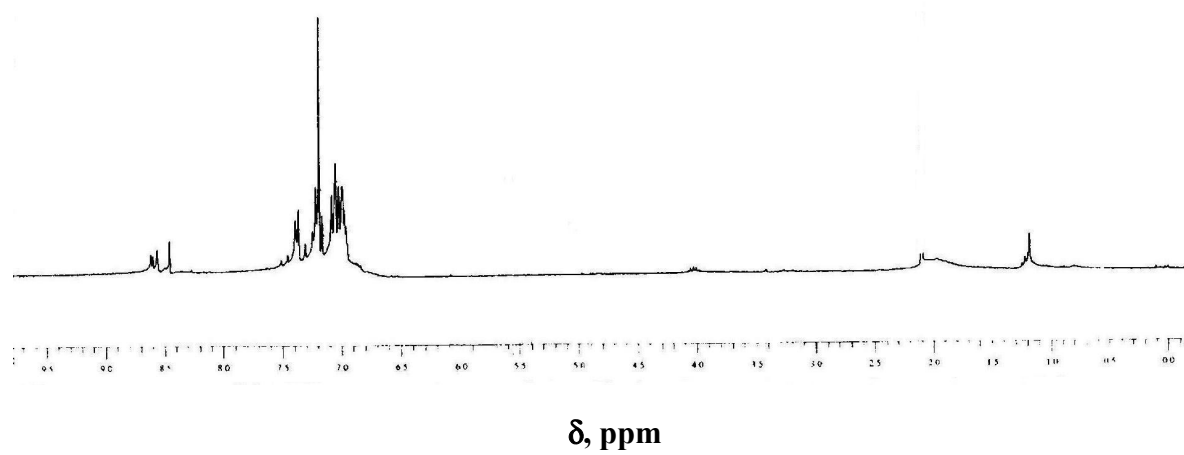
Mass Spectrum of **m-BL-6** Ligand



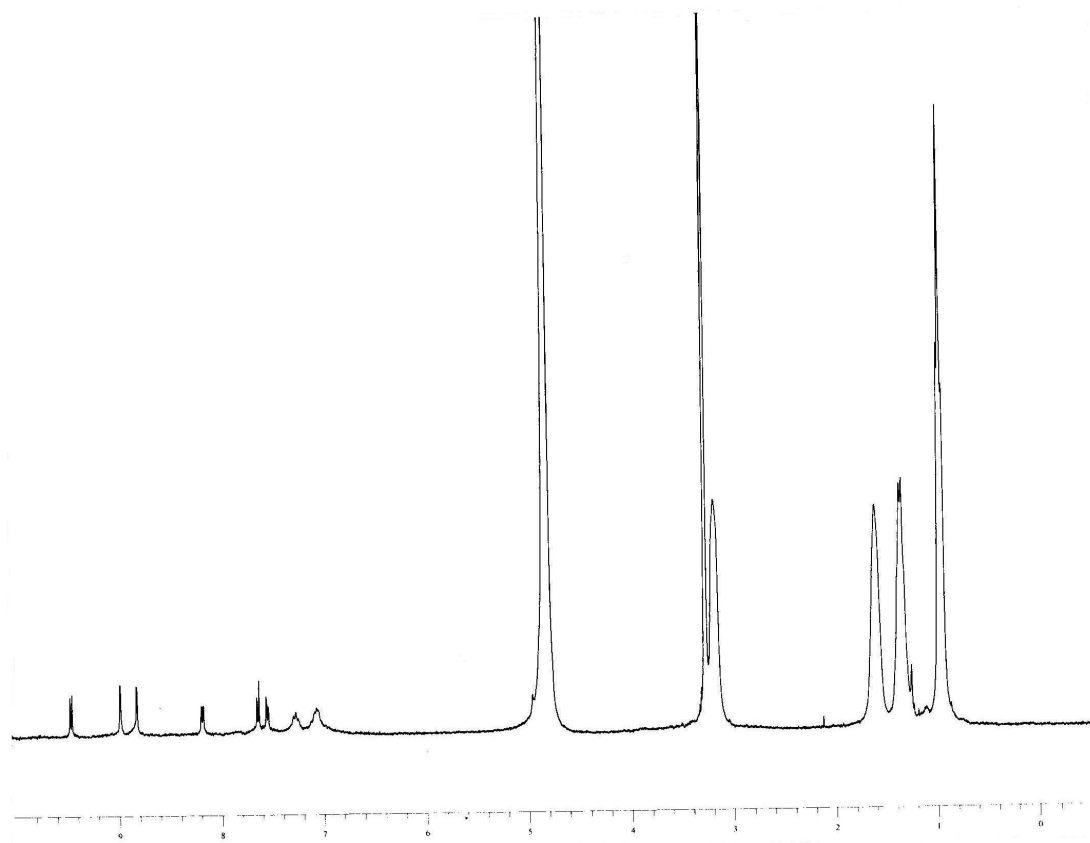
Mass Spectrum of m-BL-6



^1H NMR Spectrum of **m-BL-6** Ligand in CDCl_3

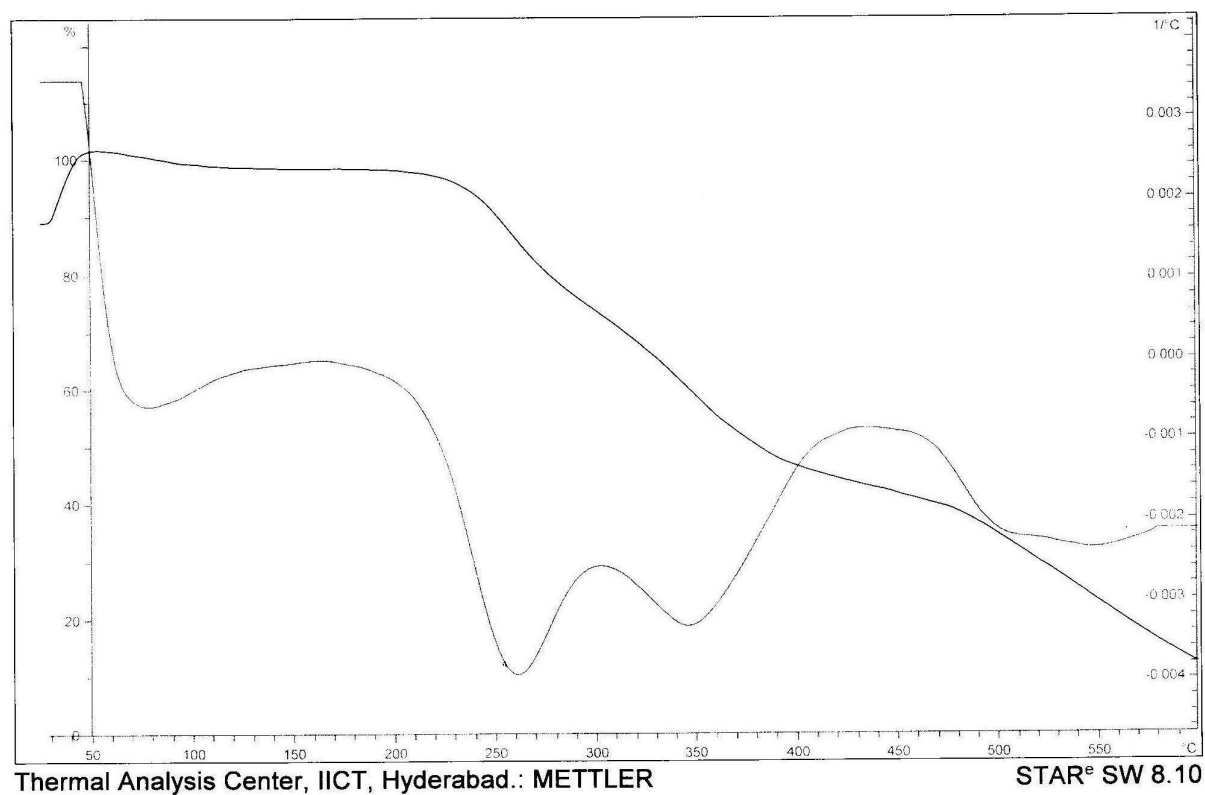


^1H NMR Spectrum of **m-BL-6** in $\text{CD}_3\text{OD}+\text{DMSO}-d_6$



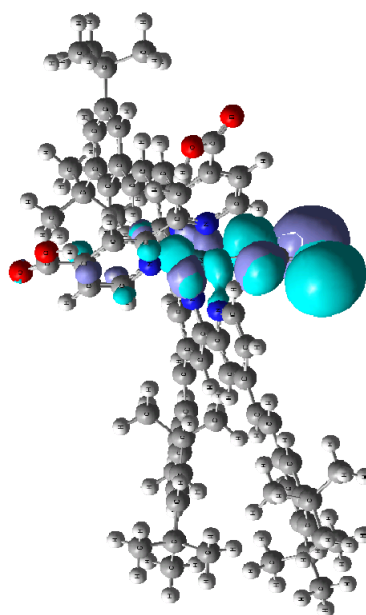
δ , ppm

TG/DTG curves of **m-BL-6**

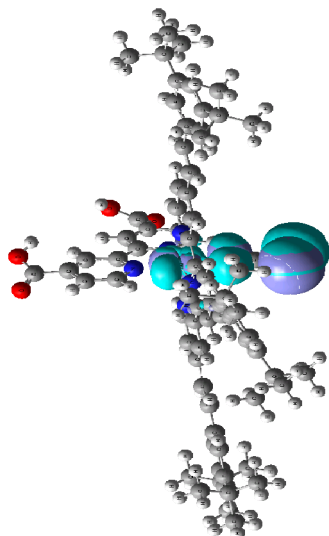


Mbl-05

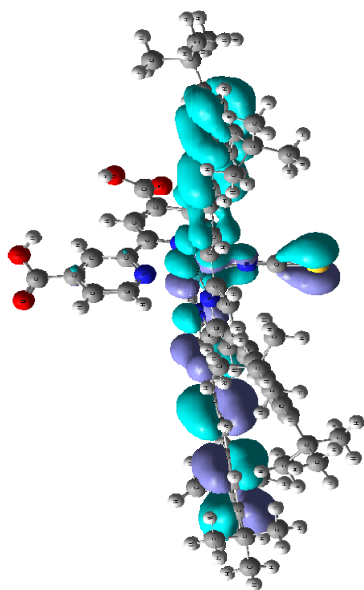
HOMO



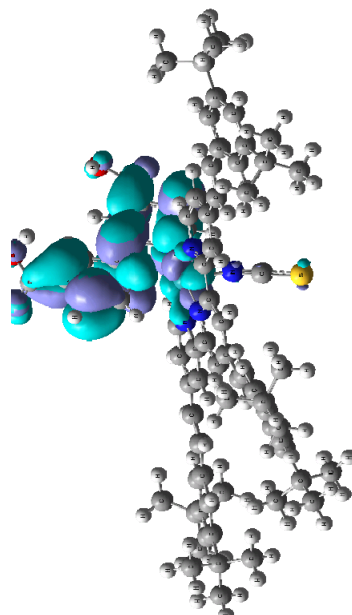
HOMO-1



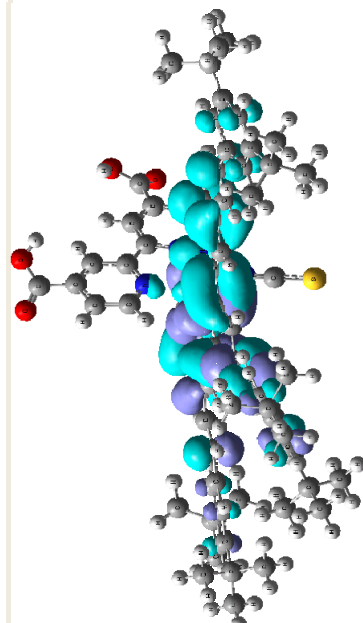
HOMO-2



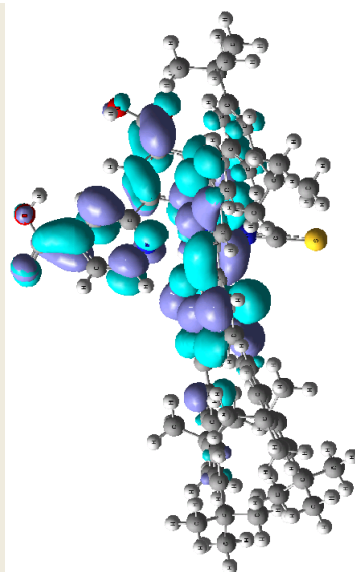
LUMO



LUMO+1

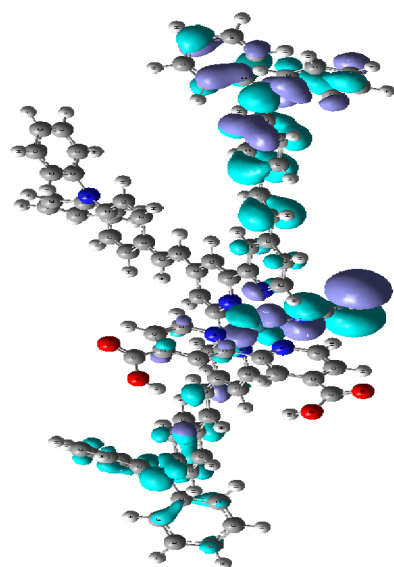


LUMO+2

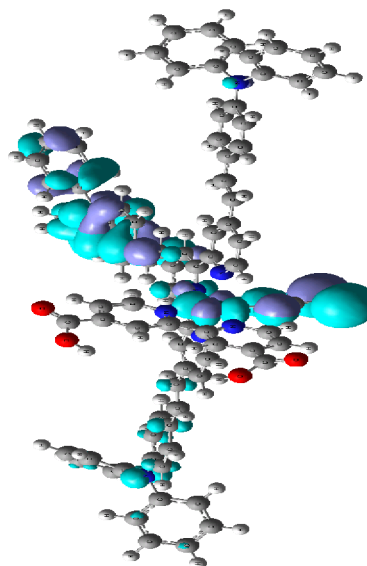


Mbl-06

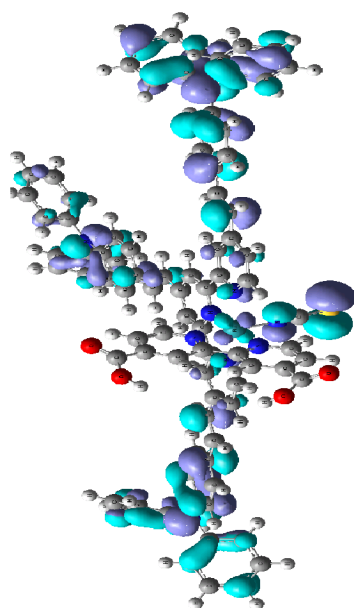
HOMO



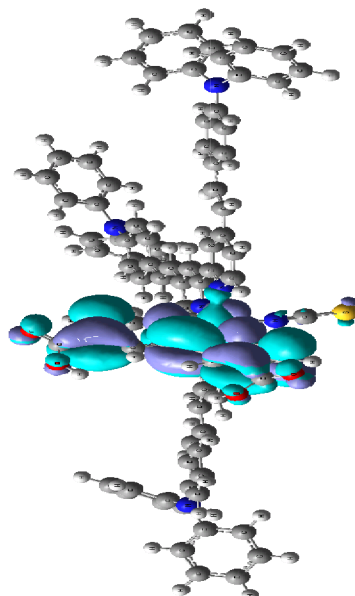
HOMO - 1



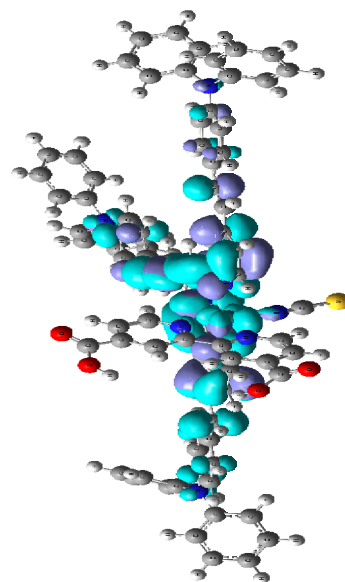
HOMO - 2



LUMO



LUMO - 1



LUMO - 2

