

## Dual Donor- $\pi$ -Acceptor Type Organic Dyes for Efficient Dye-Sensitized Solar Cells

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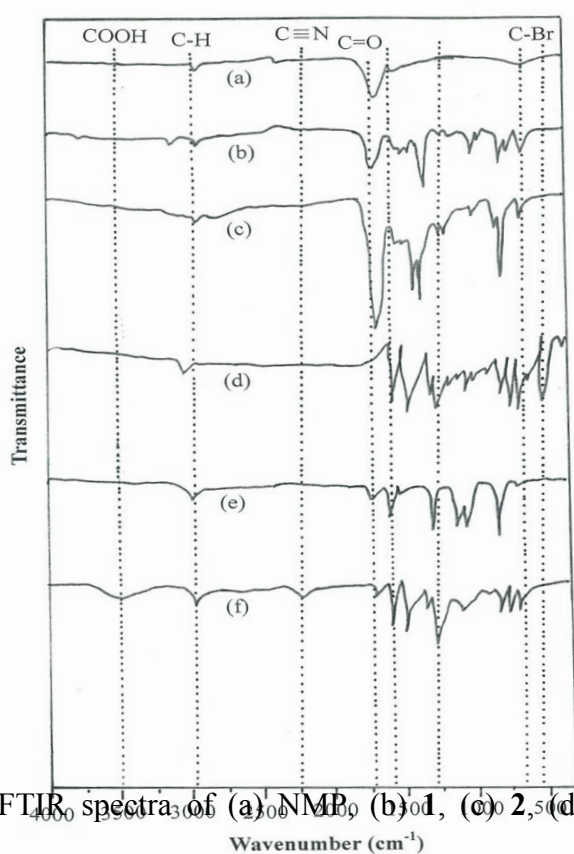


Figure 2S. FTIR spectra of (a) NMP, (b) **1**, (c) **2**, (d) **3**, (e) **4**, and (f) MTPA-2 compounds in Scheme 2.