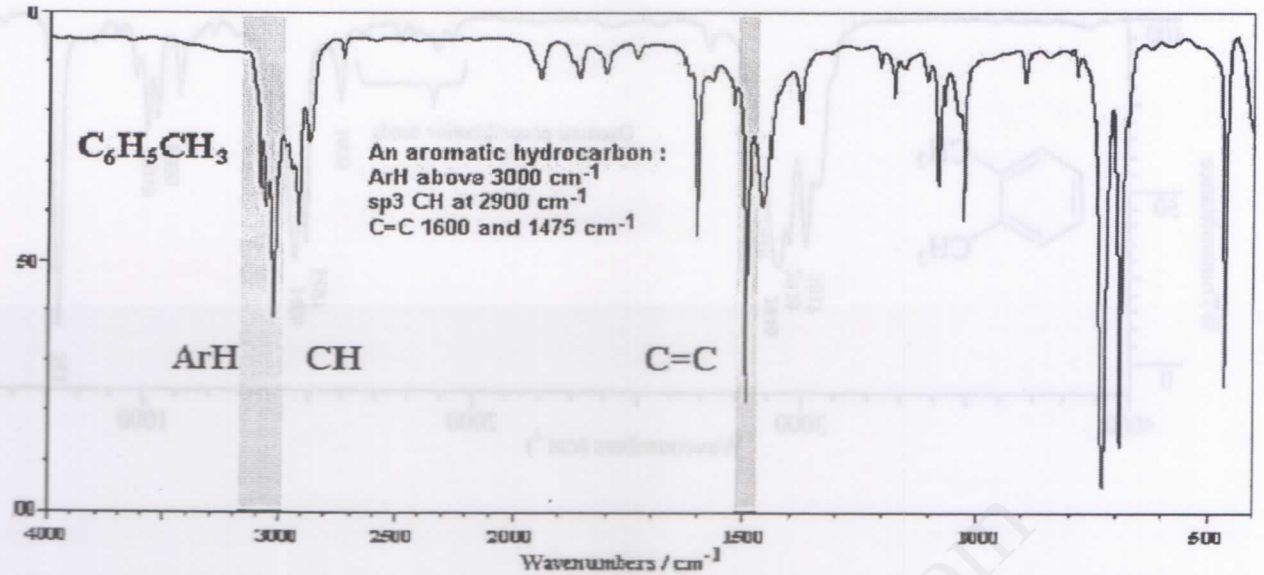
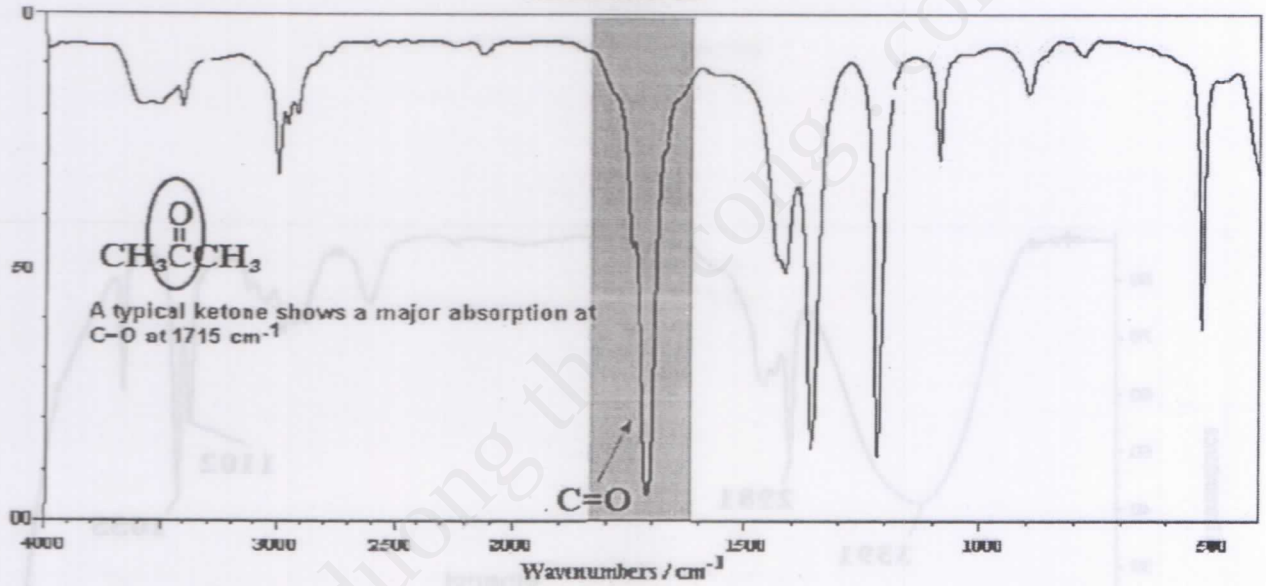
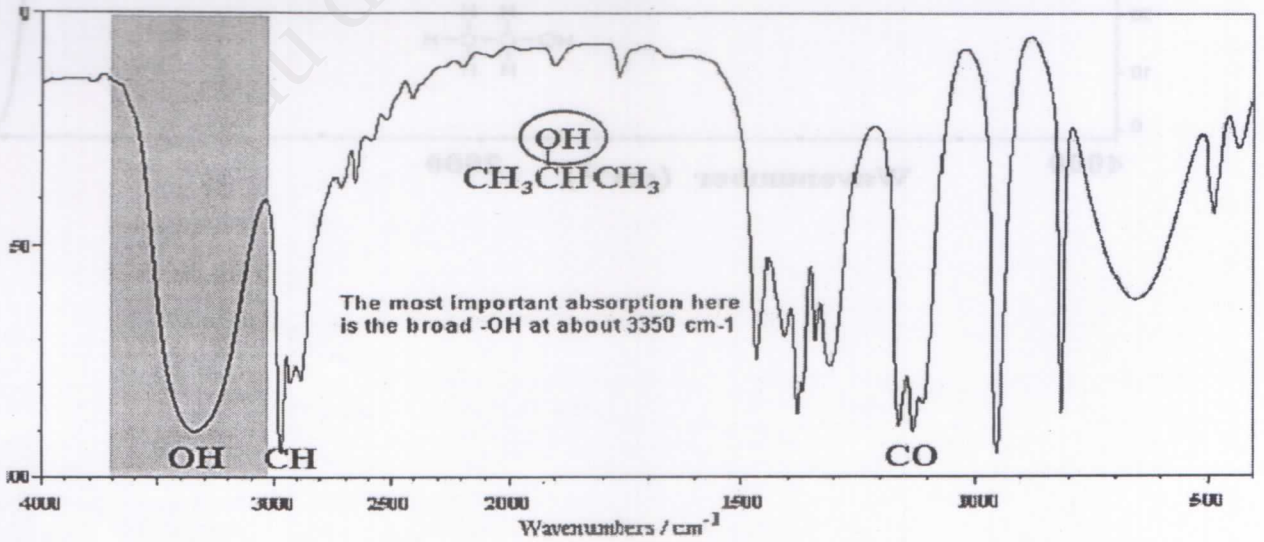






➢ ***Liên kết C_{sp3}-H:*** Giãn C-H (Stretching C-H) và uốn C-H (Bending C-H) của nhóm Methyl ($-CH_3$) và nhóm Methylene ($-CH_2-$)

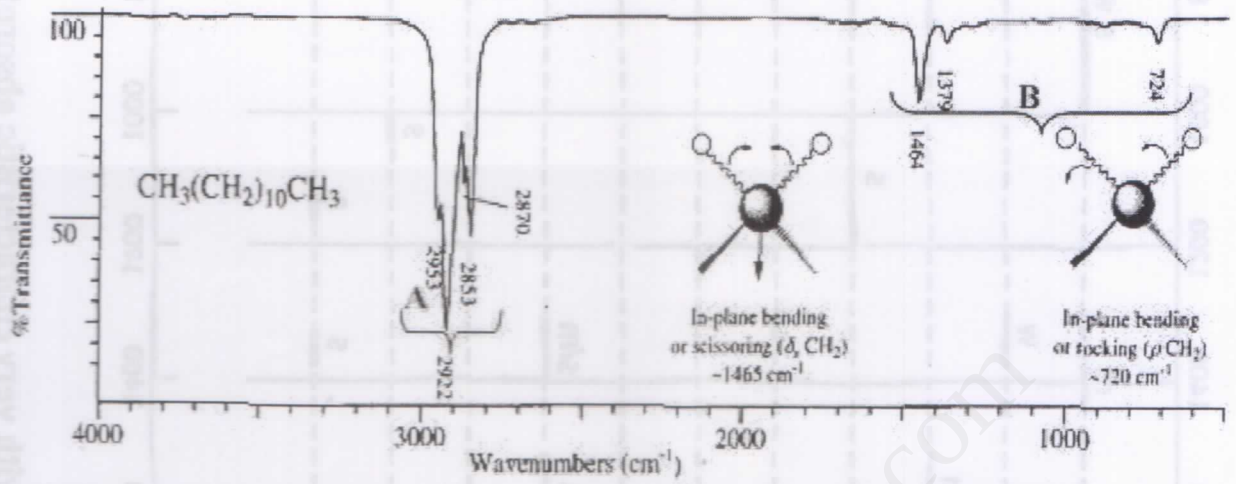
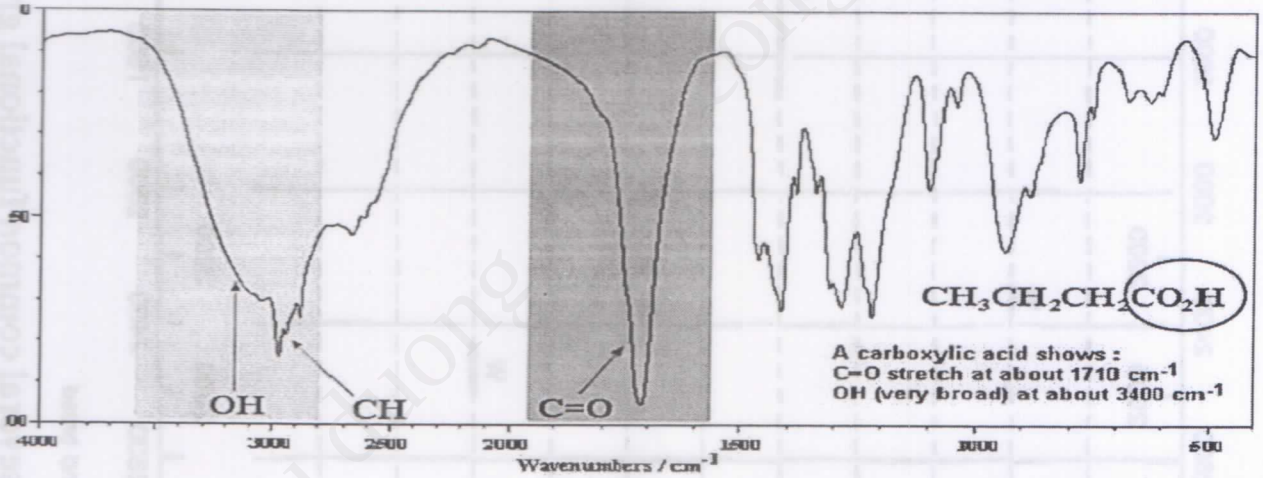
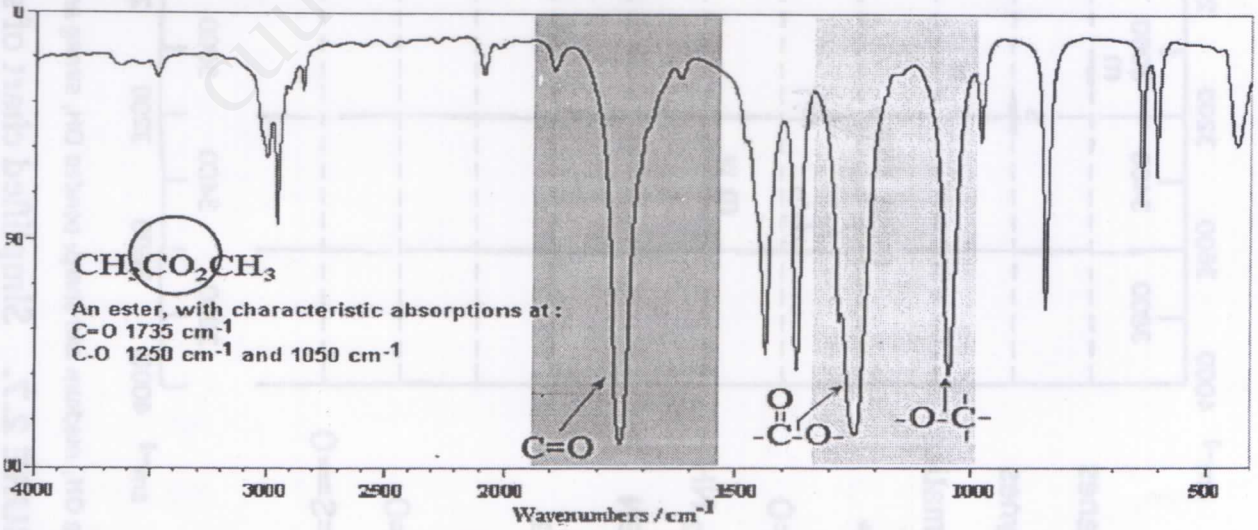


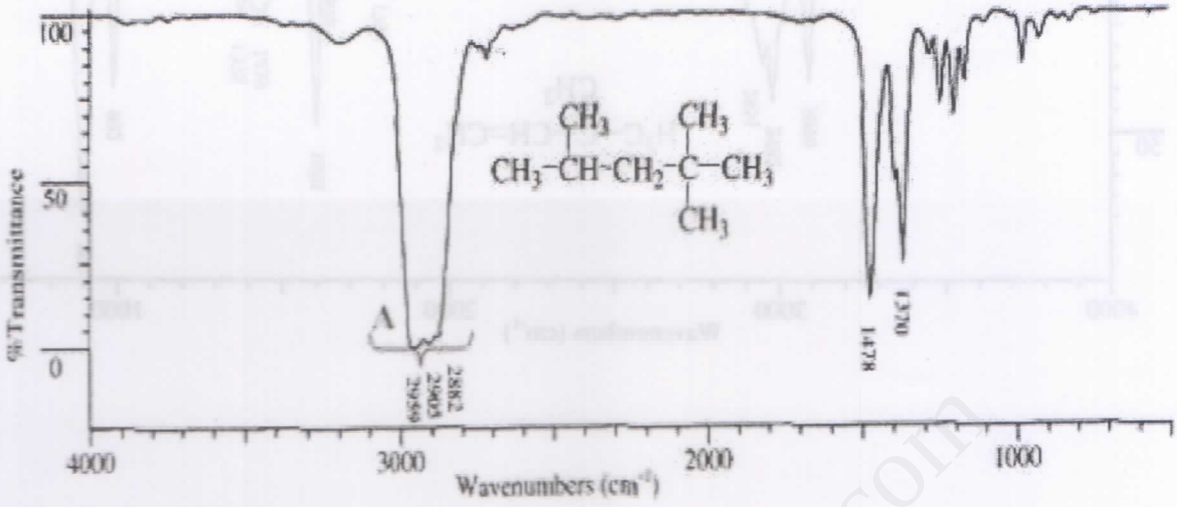
FIGURE 2.8. Dodecane. C—H stretch: 2953 cm^{-1} $\nu_{as}CH_3$, 2870 cm^{-1} ν_sCH_3, 2922 cm^{-1} $\nu_{as}CH_2$, 2853 cm^{-1} ν_sCH_2. C—H bend: 1464 cm^{-1} δ_sCH_2, 1450 cm^{-1} $\delta_{as}CH_3$, 1379 cm^{-1} δ_s CH_3. CH_2 rock: 724 cm^{-1} ρ CH_2.



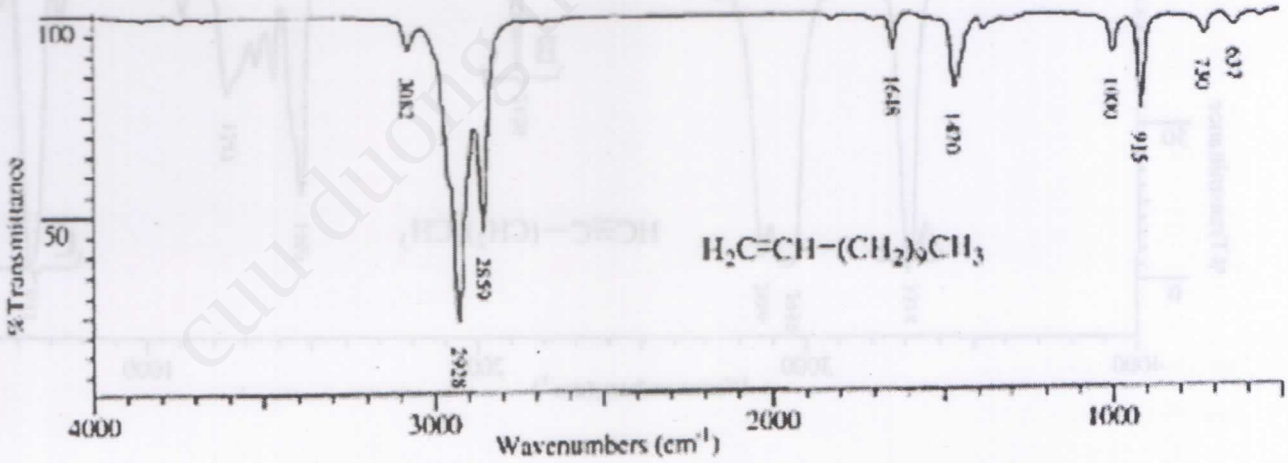


c

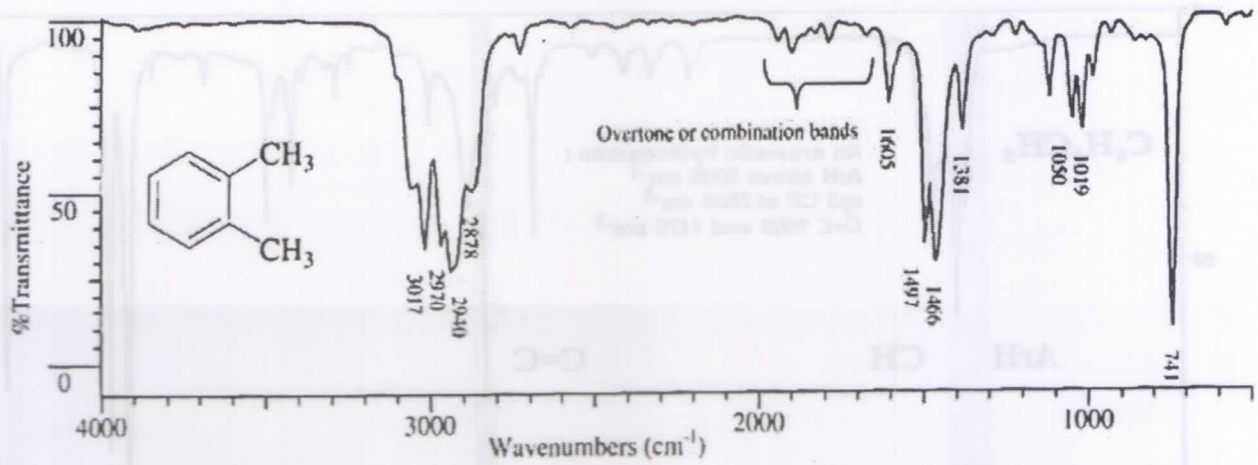
Alkane mạch nhánh



d



a



b