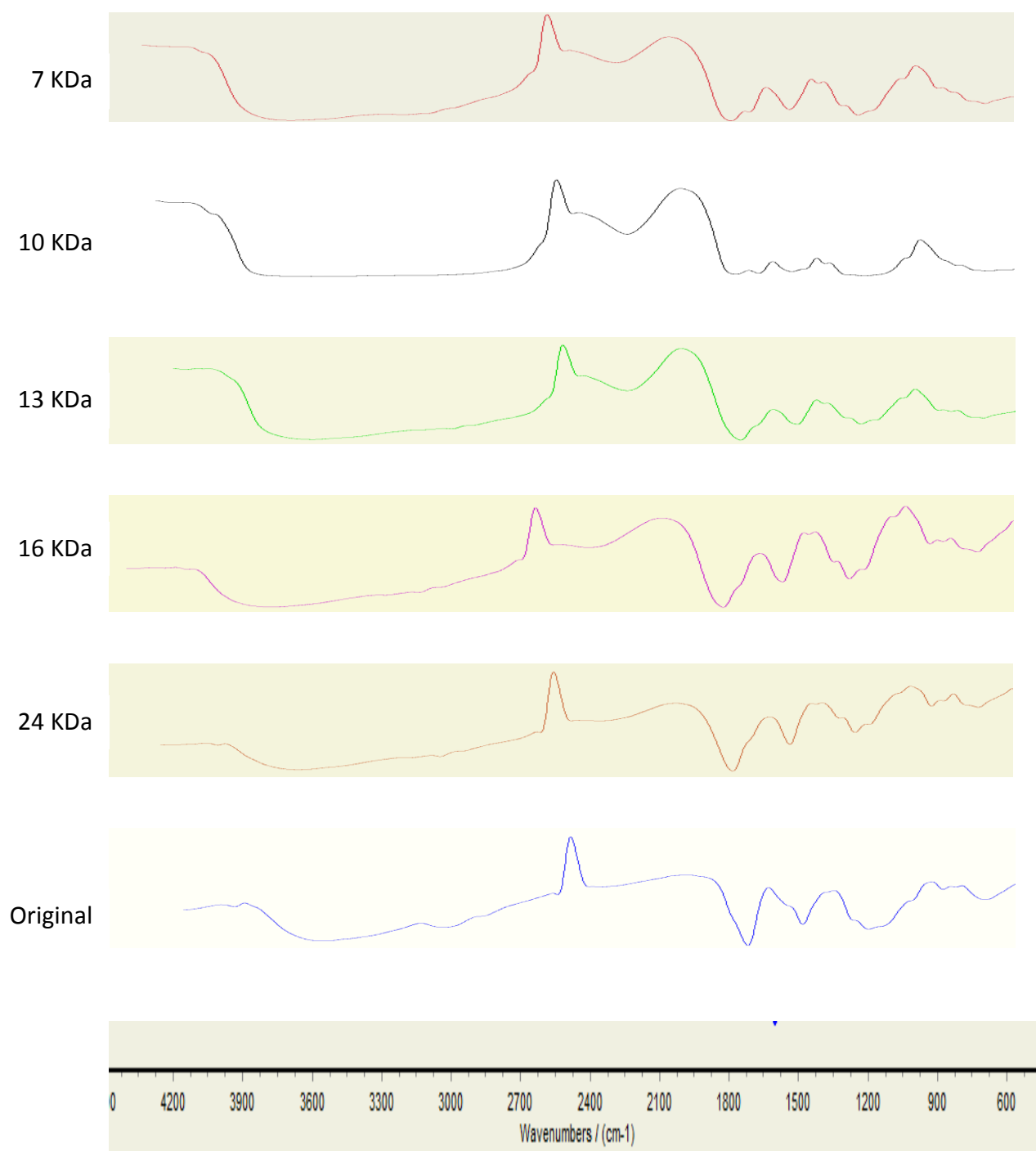


3.1.2 FT-IR Spectroscopy

FT-IR spectra of different chitosan grades are shown in (Figure 3.1). All different grades of chitosan showed the same absorption peak 1570 cm^{-1} . The spectral data indicates the absence of carbonyl ($\text{C}=\text{O}-\text{NHR}$) at 1665 cm^{-1} .



(Figure 3.1): IR spectra for different grades of fully deacetylated chitosan over the frequency range $4000\text{-}400\text{ cm}^{-1}$.