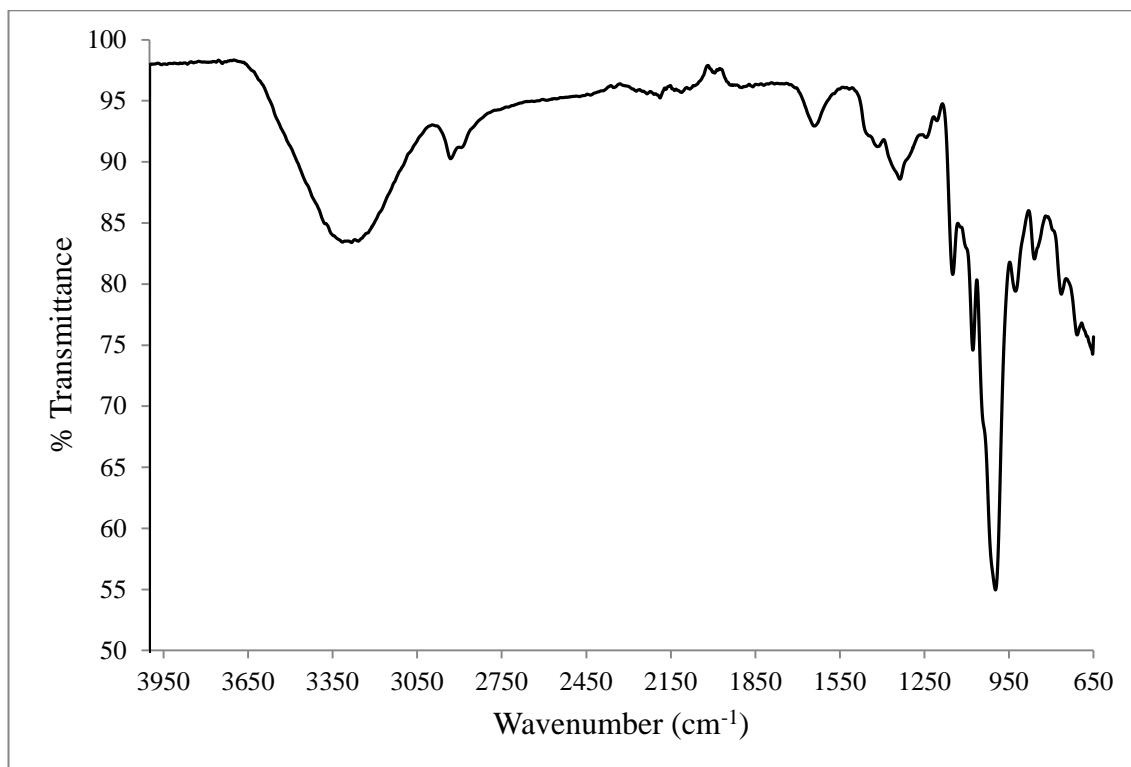
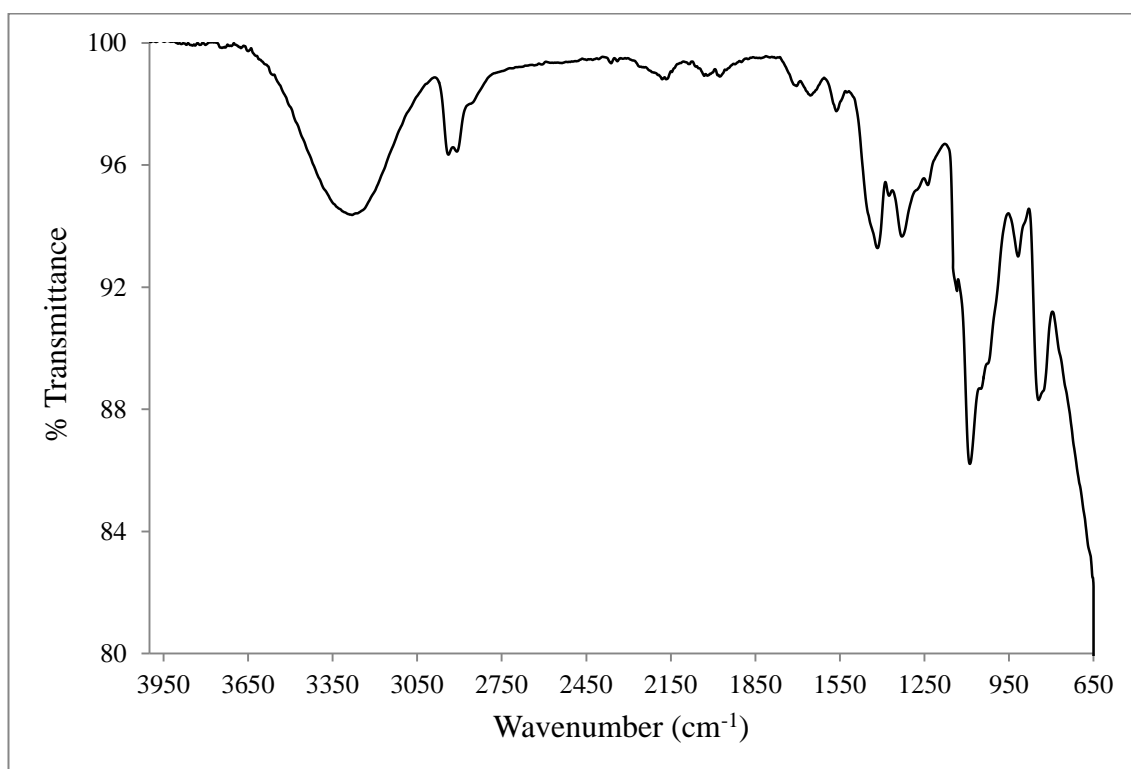


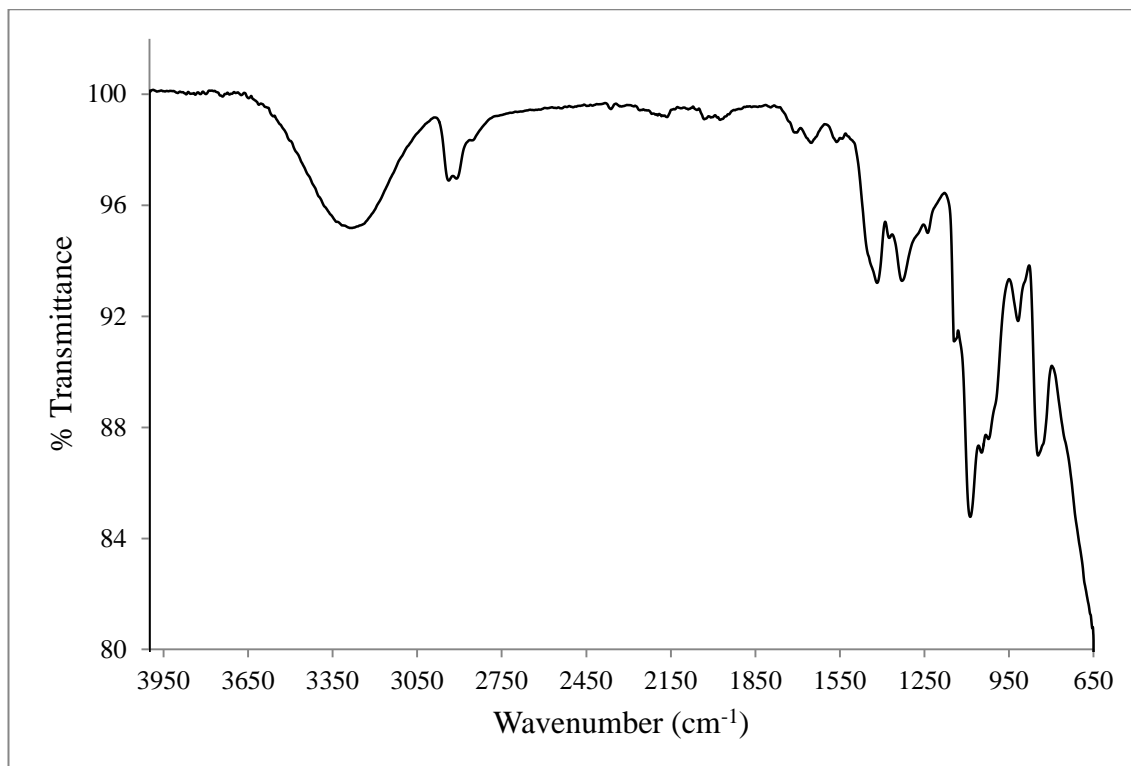
APPENDIX A



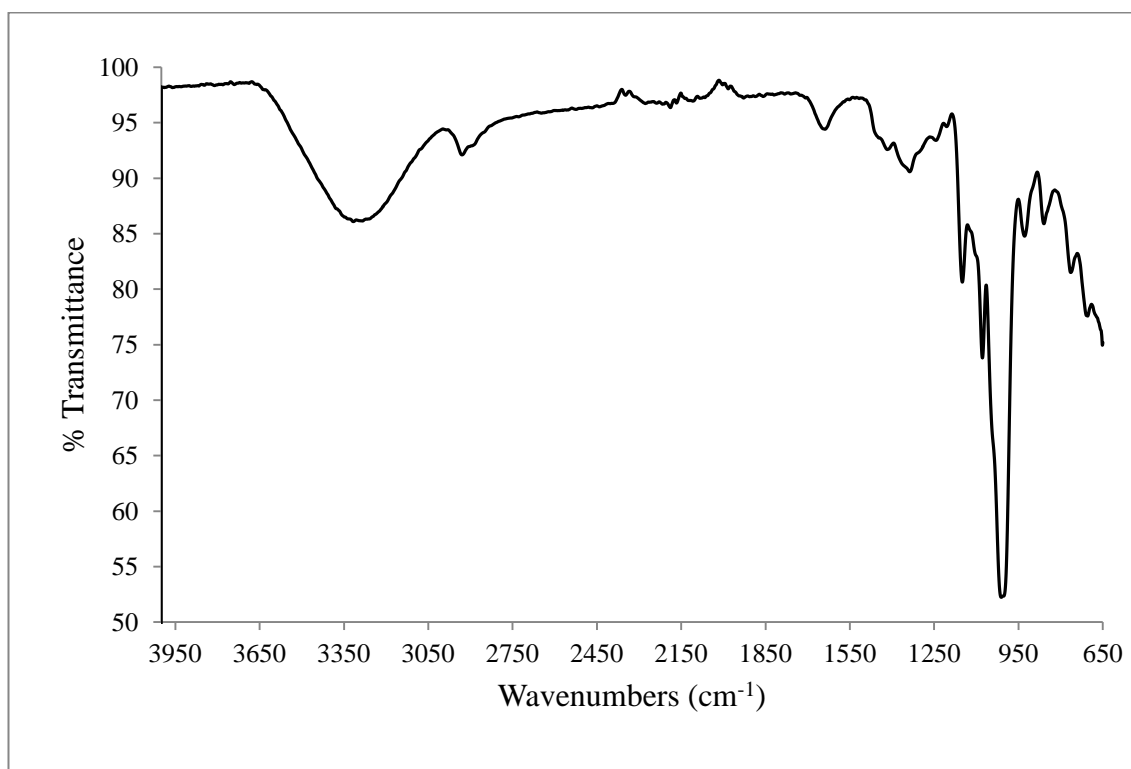
FTIR spectrum of pure tapioca starch in the frequency range of 650-4000 cm^{-1}



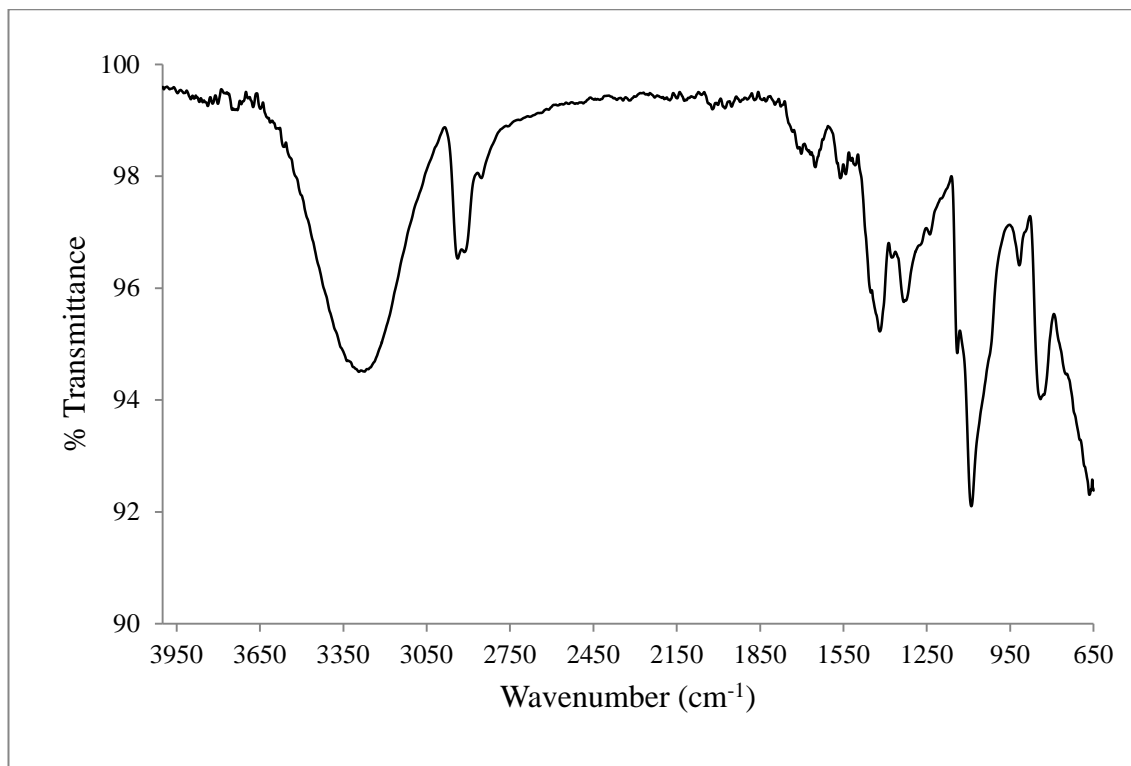
FTIR spectrum of PVA/ITS in the frequency range of 650-4000 cm^{-1}



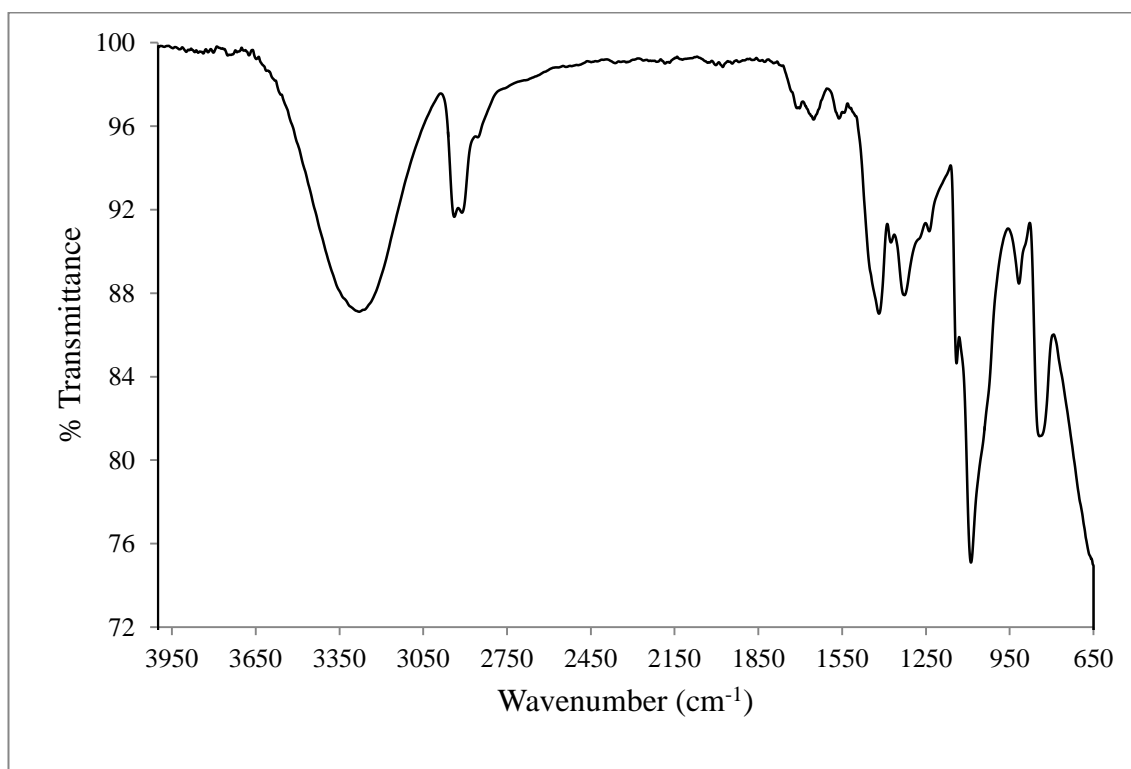
FTIR spectrum of PVA/3TS in the frequency range of 650-4000 cm^{-1}



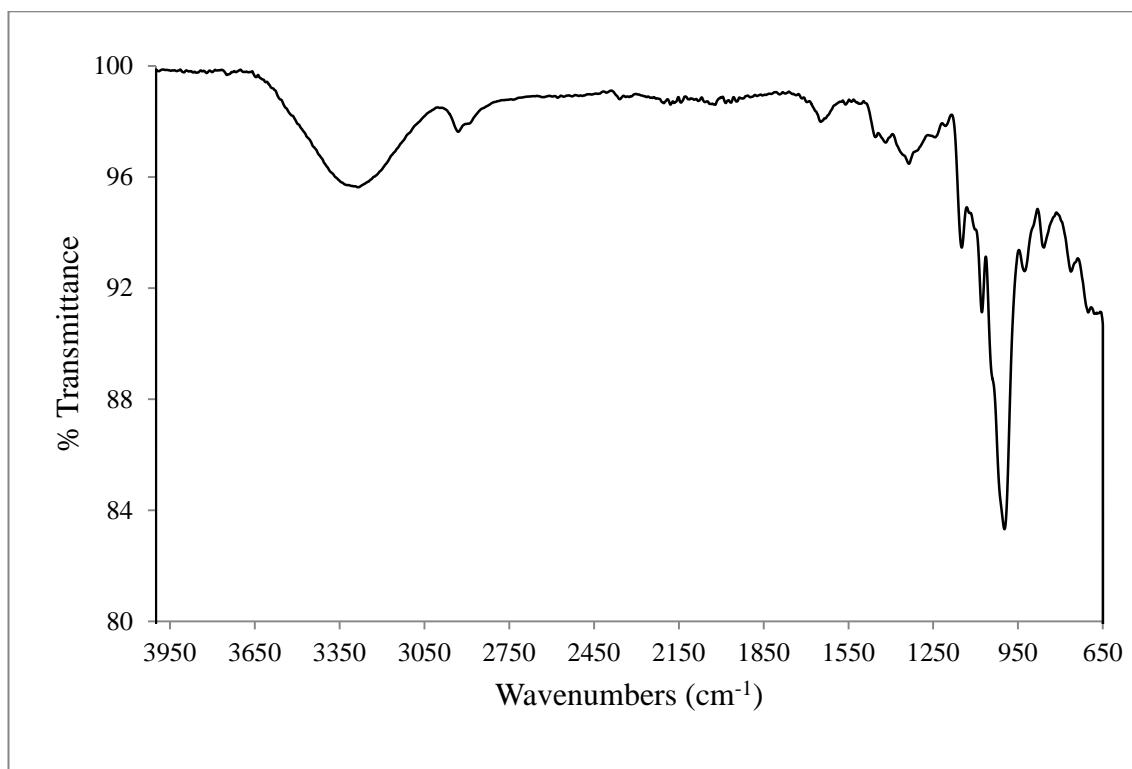
FTIR spectrum of pure rice starch in the frequency range of 650-4000 cm^{-1}



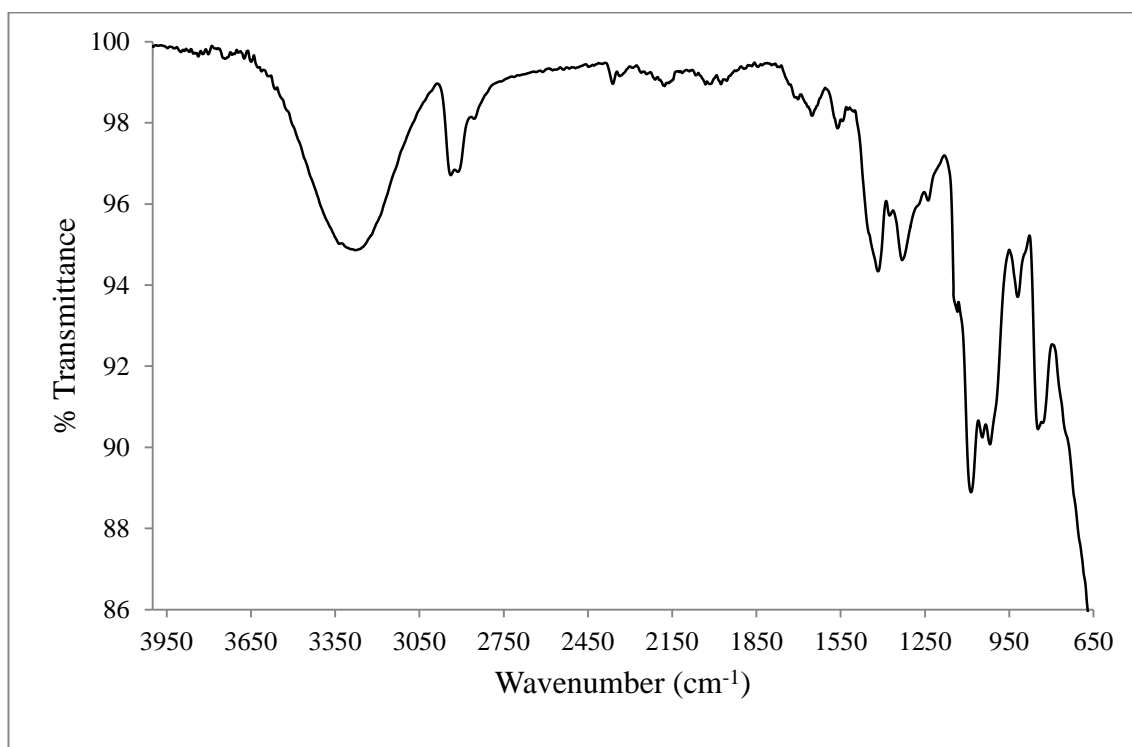
FTIR spectrum of PVA/1RS in the frequency range of 650-4000 cm⁻¹



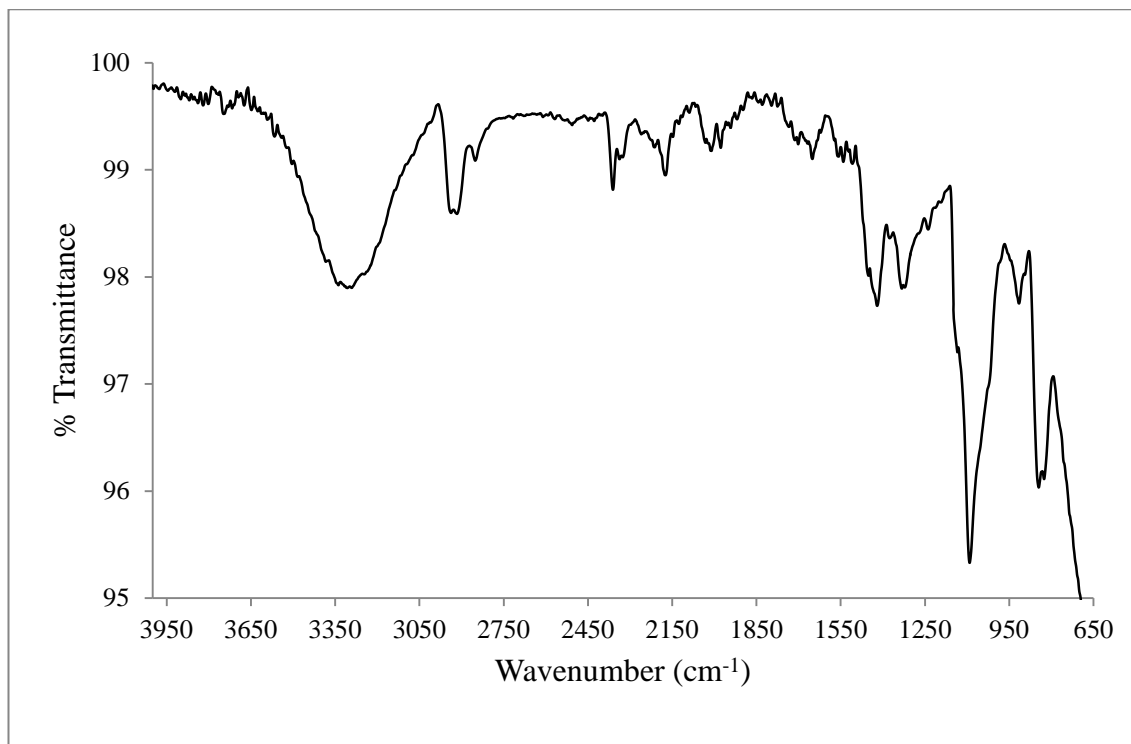
FTIR spectrum of PVA/3RS in the frequency range of 650-4000 cm⁻¹



FTIR spectrum of pure sago starch in the frequency range of 650-4000 cm^{-1}



FTIR spectrum of PVA/ISS in the frequency range of 650-4000 cm^{-1}



FTIR spectrum of PVA/3SS in the frequency range of 650-4000 cm⁻¹