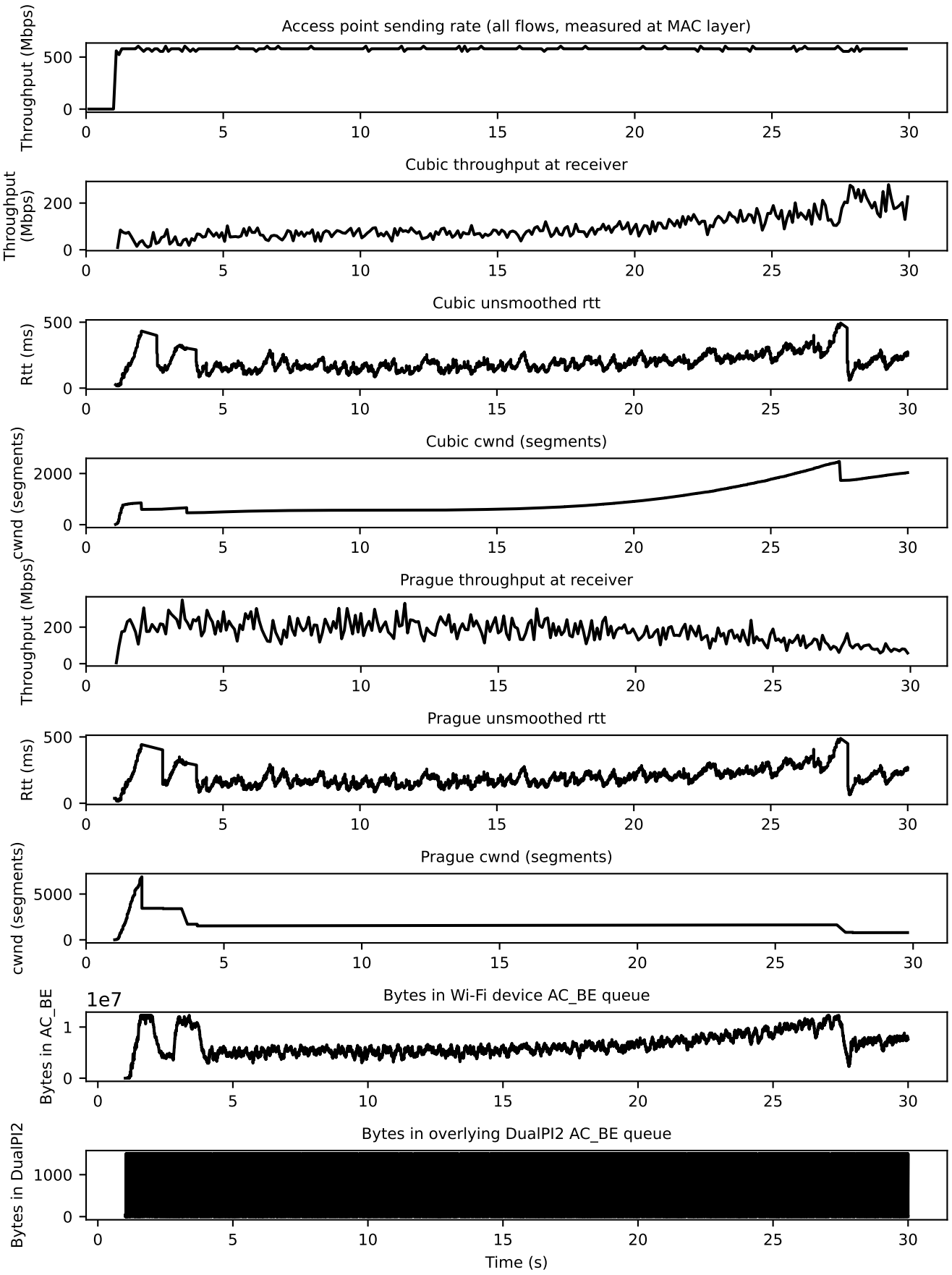Simulation ED1-MS1-AP0-LS2-TC4-TS2