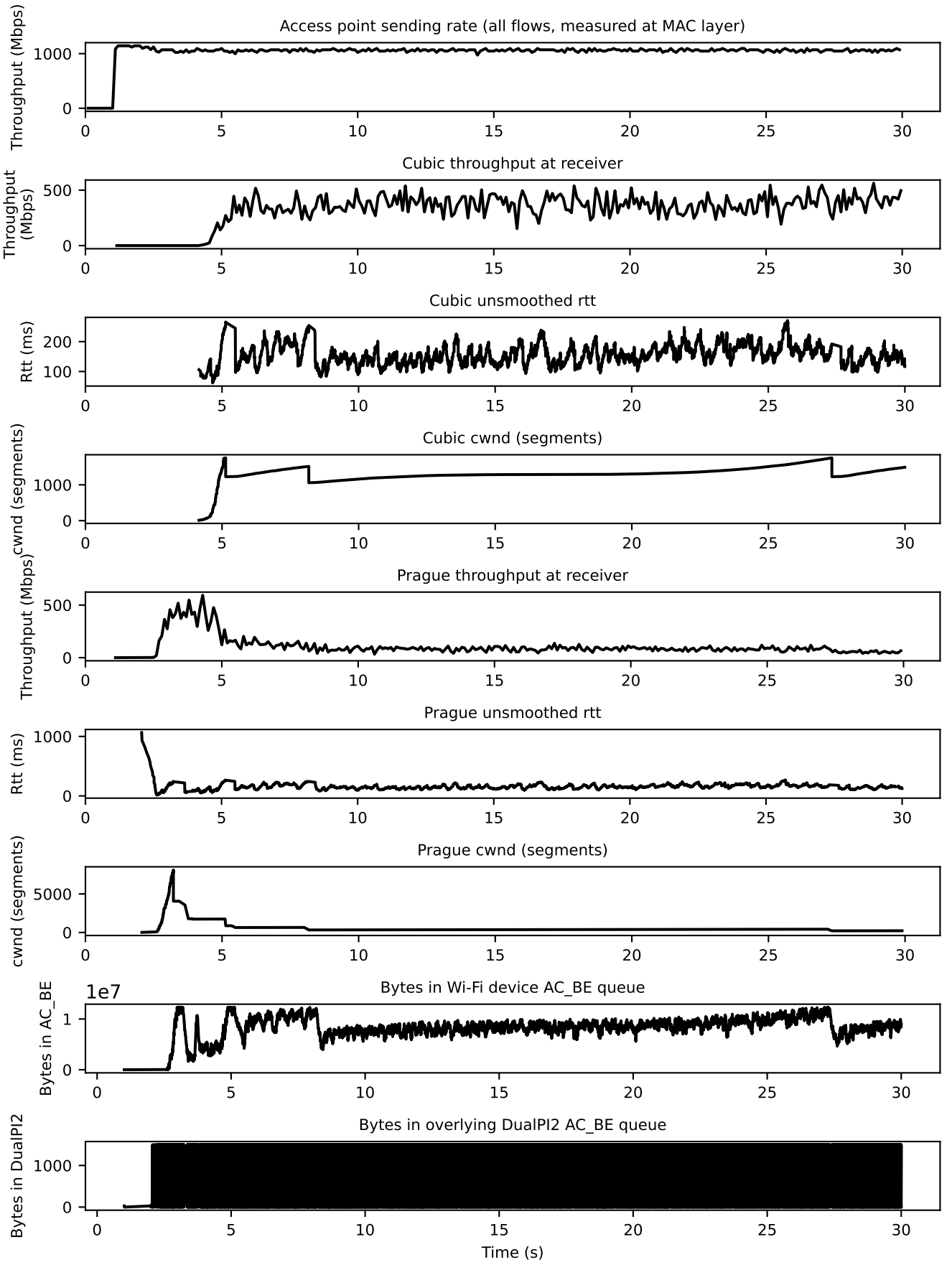Simulation ED2-MS1-AP0-LS3-TC5-TS2