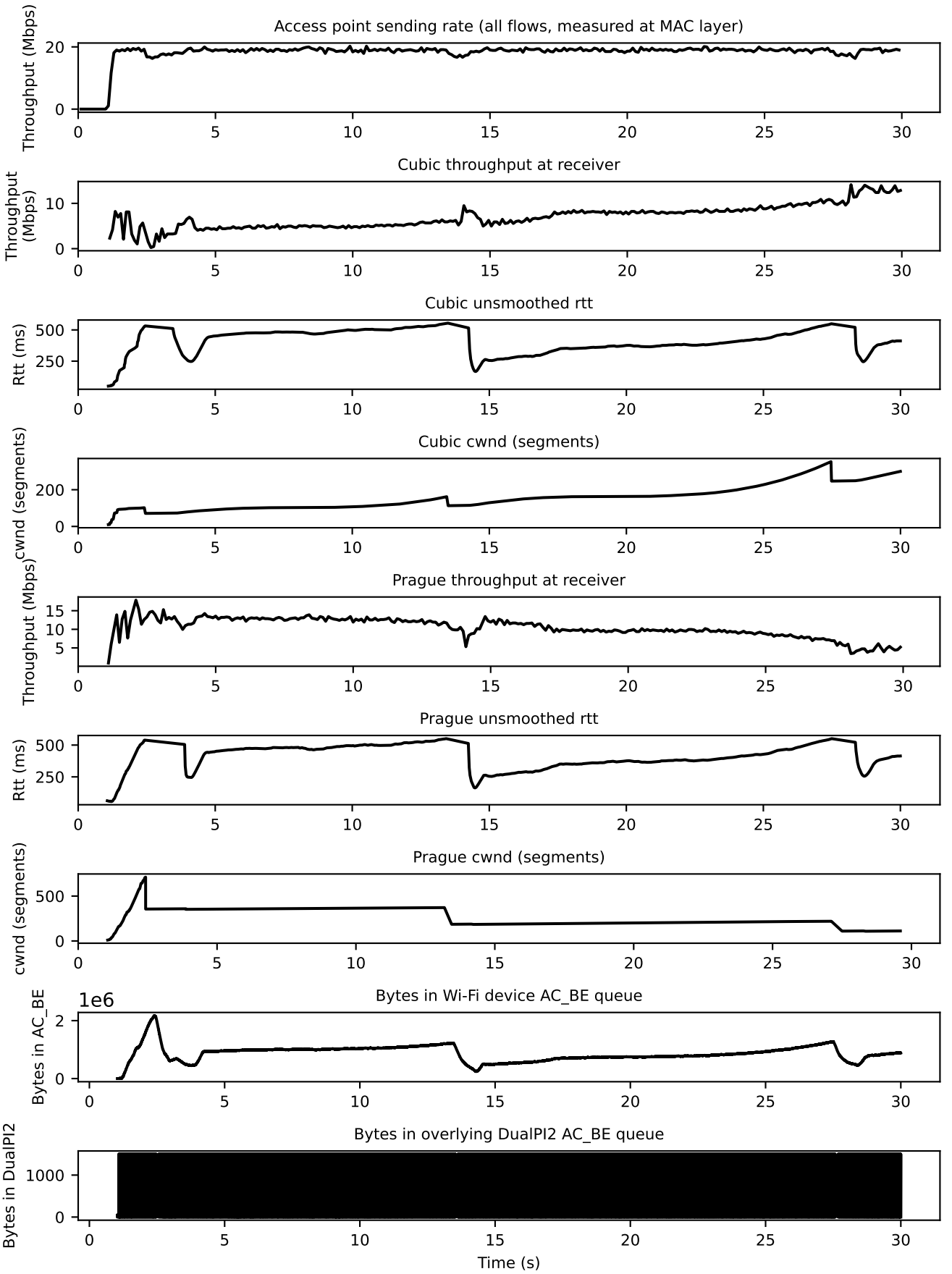Simulation ED5-MS1-AP0-LS1-TC4-TS3