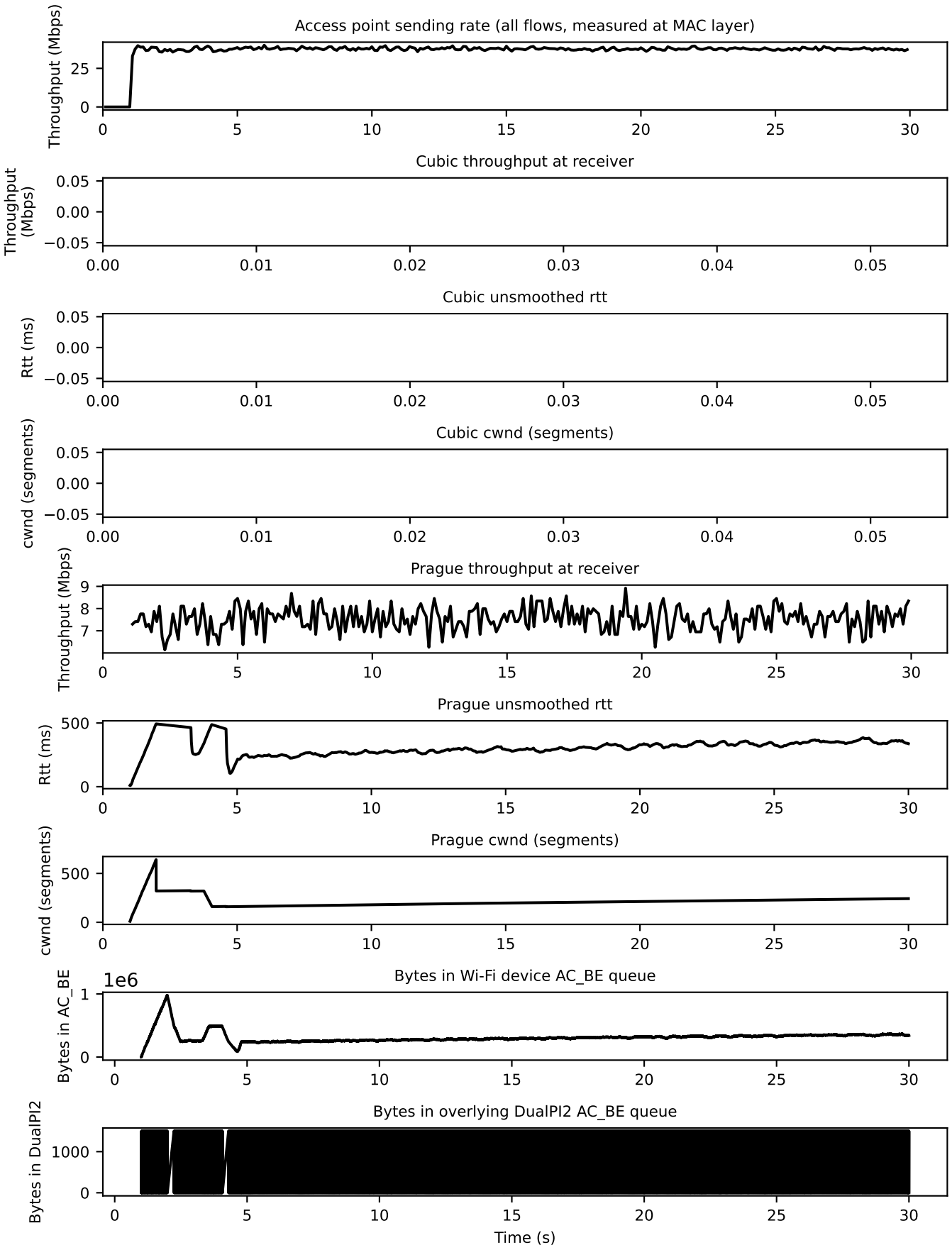Simulation ED5-MS2-AP0-LS1-TC2-TS1