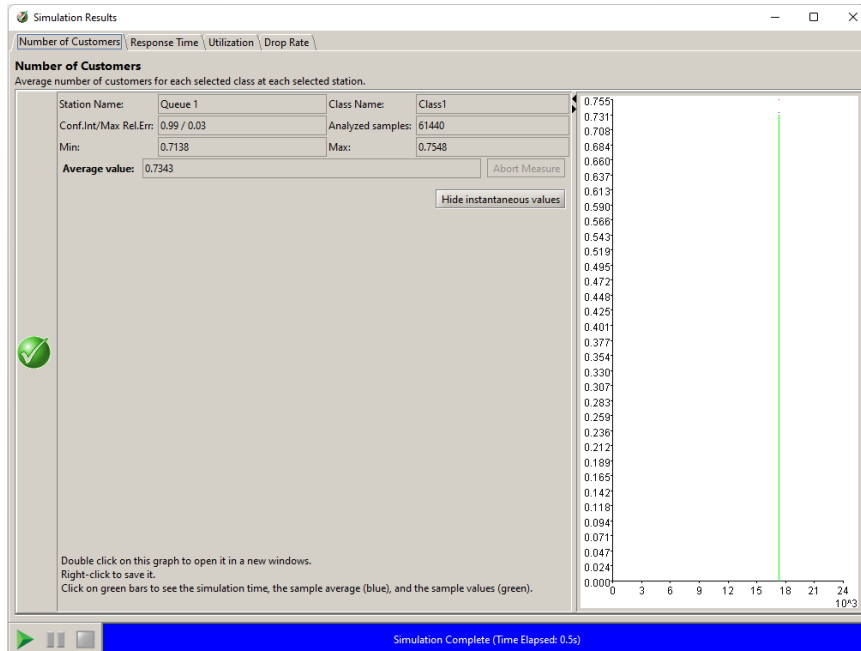


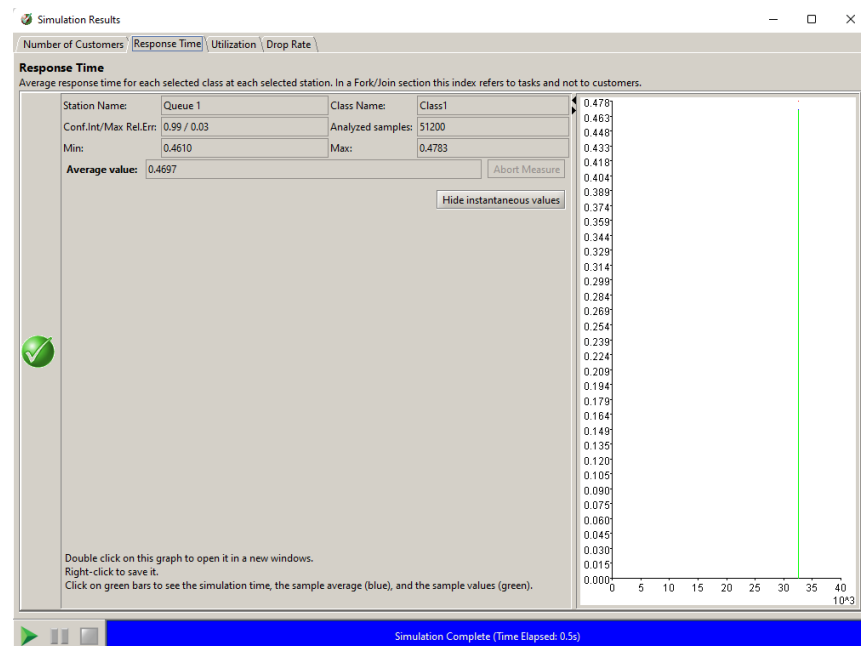
3. (V) Simulate and Verify (i), (ii), (iv)

Verify (i): Average System Size & Average Waiting Time

Average System Size: Number of customers simulated as 0.7343



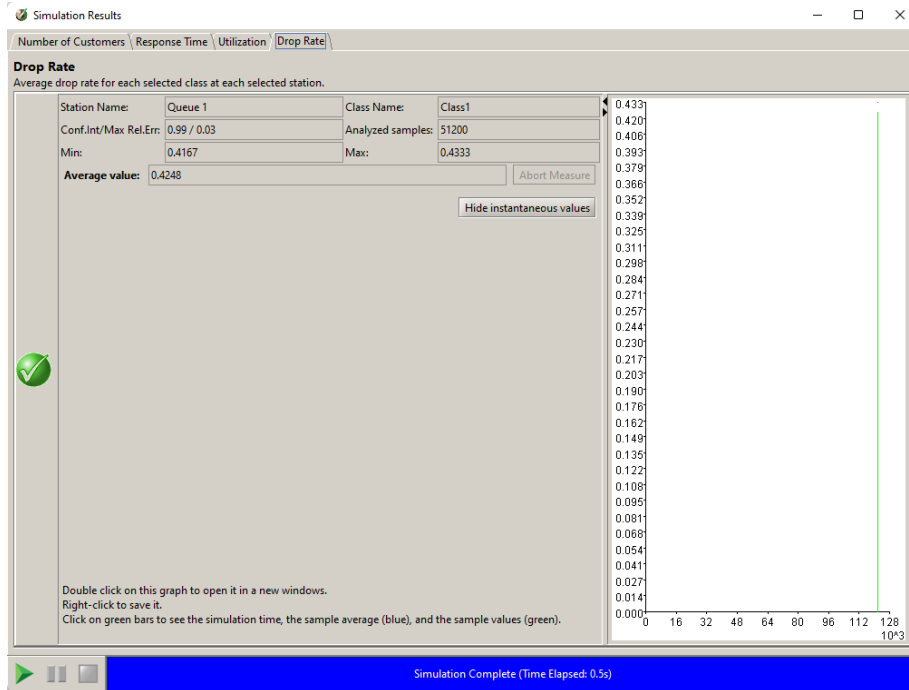
Average Waiting time: (System) Response Time simulated as 0.4697



Verify (ii): Block Rate

Block Rate: System Drop Rate simulated as 0.4248

Since $\text{Drop Rate} = 0.4248 = \lambda P_b = 2 \times P_b \rightarrow P_b = 0.2124$



Verify (iv): Utilization

Utilization simulated as 0.5250

