

COMP9336 Mobile Data Networking - Lab 4

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1. Graph

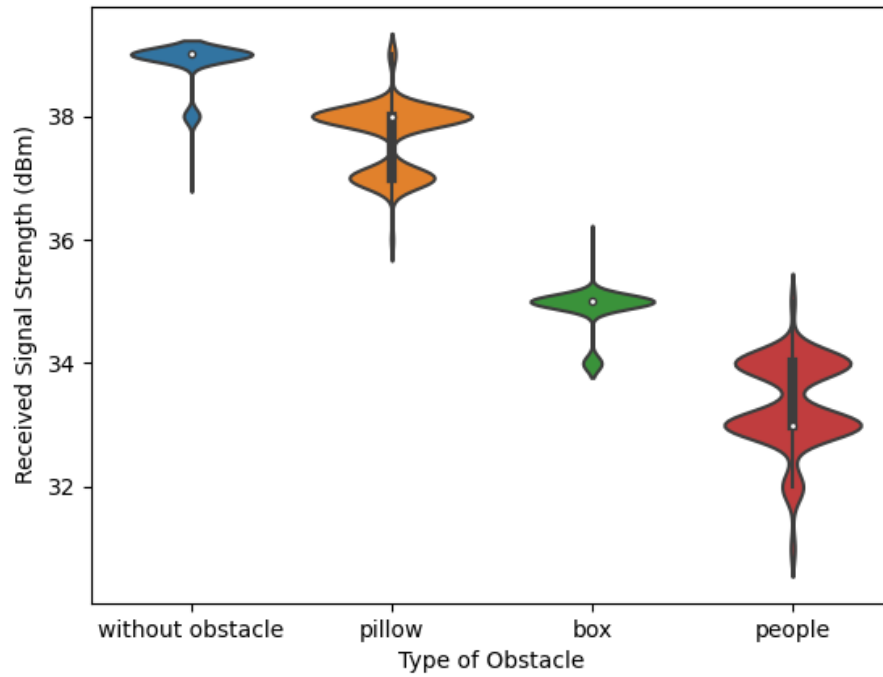


Figure 1. RSS Distribution with Obstacles in 2.4GHz

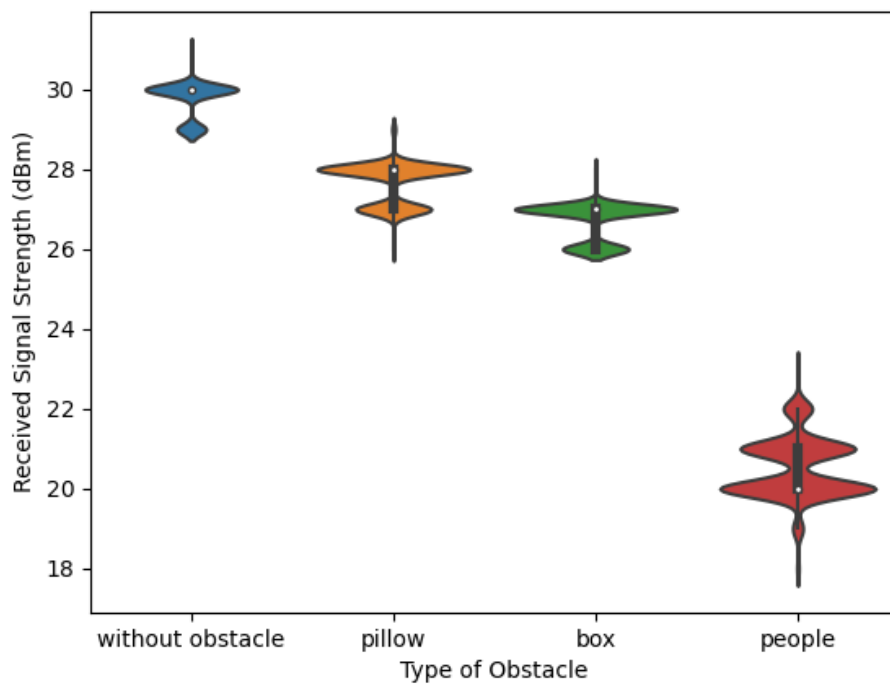


Figure 2. RSS Distribution with Obstacles in 5GHz

2. Table

Obstacles	Average Received Signal Strength (dBm)	
	2.4GHz	5Ghz
without obstacle	38.9	29.8
pillow	37.7	27.7
box	34.9	26.7
standing human	33.3	20.5

Table 1. Average RSS Distribution with Obstacles

3. Commentary

Through the violin chart and table above, I found that different obstacles have different effects on Wi-Fi signal strength. In addition, compared with 2.4GHz, 5GHz has weaker obstacle penetration capability.