

Network Administration 2

Reference:

[1]https://en.wikipedia.org/wiki/List_of_WLAN_channels

1.

Outside the room:

	2.4G	5G
rss	-57dBm	-74dBm
noise	-98dBm	-95dBm
data rate	52Mbps	108Mbps

Explanation:

5G-wifi network can carry more data than 2.4G ones, because 5G wave can switch among different patterns faster. However, a wave with 5GHz frequency has a shorter wavelength than 2.4G wave does, and thus the power loss of 5G-wifi is larger than 2.4G-wifi.

2.

csie	58:93:96:27:35:28	WPA2 Enterprise	802.11b/g/n	-63	-92	11	2.4GHz	20 MHz
csie	58:93:96:a7:35:2c	WPA2 Enterprise	802.11a/n	-82	-92	60	5 GHz	40 MHz
csie	ac:67:06:1d:97:78	WPA2 Enterprise	802.11b/g/n	-67	-92	1	2.4GHz	20 MHz
csie	c0:c5:20:11:a5:b8	WPA2 Enterprise	802.11b/g/n	-63	-92	1	2.4GHz	20 MHz
csie	c4:10:8a:94:63:ec	WPA2 Enterprise	802.11a/n	-91	-92	56	5 GHz	40 MHz
csie	c4:10:8a:94:64:bc	WPA2 Enterprise	802.11a/n	-42	-92	108	5 GHz	40 MHz
csie-5G	58:93:96:67:35:2c	WPA2 Enterprise	802.11a/n	-83	-92	60	5 GHz	40 MHz
csie-5G	c4:10:8a:54:63:ec	WPA2 Enterprise	802.11a/n	-91	-92	56	5 GHz	40 MHz
csie-5G	c4:10:8a:54:64:bc	WPA2 Enterprise	802.11a/n	-42	-92	108	5 GHz	40 MHz

Channels:

1: 2.412G
11:2.462G
56:5.280G
60:5.3G
108:5.540G

3.

Disagree, a person also needs to concern about the SNR value because SNR indicates the quality of transmission. 5G-wifi can provide higher transmission rate, but the signal strength decays faster. In addition, 5G signal cannot be received as well as 2.4G in a area full of barriers.