

1.1. Test Result of RF Exposure Evaluation

- . Product: Wireless-N Access Point
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

1.1.1. Antenna Gain

ANT-R: The maximum Gain is 3.6 dBi.(TX)

ANT-M: The maximum Gain is 3.8 dBi (RX)

ANT-L: The maximum Gain is 3.1 dBi. (TX)

1.1.2. EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

1.1.3. Output Power into Antenna & RF Exposure Evaluation Distance

(1) Modulation Standard: IEEE 802.11b (11Mbps), ANT-R

Test Date: Aug. 08, 2008 Temperature: 20 Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	21.99	0.072
06	2437	22.20	0.076
11	2462	22.45	0.080

(2) Modulation Standard: IEEE 802.11g (6Mbps), ANT-R

Test Date: Aug. 08, 2008 Temperature: 20 Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	21.11	0.059
06	2437	21.37	0.062
11	2462	21.13	0.059

(3) Modulation Standard: IEEE 802.11b (11Mbps), ANT-L

Test Date: Aug. 08, 2008 Temperature: 20 Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	22.03	0.065
06	2437	22.09	0.066
11	2462	22.10	0.066

(4) Modulation Standard: IEEE 802.11g (6Mbps), ANT-L

Test Date: Aug. 08, 2008

Temperature: 20

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	21.40	0.056
06	2437	21.41	0.056
11	2462	21.00	0.051

(5) Modulation Standard: IEEE 802.11n, HT20 (6.5Mbps), ANT-R + ANT-L

Test Date: Aug. 08, 2008

Temperature: 20

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	20.96	0.057
06	2437	21.25	0.061
11	2462	21.14	0.059

(6) Modulation Standard: IEEE 802.11n, HT40(13.5Mbps), ANT-R + ANT-L

Test Date: Aug. 08, 2008

Temperature: 20

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
03	2422	20.10	0.047
06	2437	20.06	0.046
09	2452	20.00	0.046

The MPE is calculated as $0.080\text{mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.

For 2412-2462 MHz, the EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.