

## 1.1. Test Result of RF Exposure Evaluation

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

### 1.1.1. Antenna Gain

ANT1: The maximum Gain is 3.6 dBi.

ANT2: The maximum Gain is 3.8 dBi.

ANT3: The maximum Gain is 3.1 dBi.

### 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), ANT1

Test Date: May. 07, 2008      Temperature: 20°C      Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
01	2412	23.12	0.093
06	2437	23.02	0.091
11	2462	22.88	0.088

(2) Modulation Standard: IEEE 802.11g (6Mbps), ANT1

Test Date: May. 07, 2008      Temperature: 20°C      Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
01	2412	22.78	0.086
06	2437	22.91	0.089
11	2462	22.88	0.088

(3) Modulation Standard: IEEE 802.11b (11Mbps), ANT3

Test Date: May. 07, 2008      Temperature: 20°C      Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
01	2412	23.03	0.082
06	2437	23.07	0.082
11	2462	23.20	0.085

(4) Modulation Standard: IEEE 802.11g (6Mbps), ANT3

Test Date: May. 07, 2008

Temperature: 20°C

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
01	2412	23.02	0.081
06	2437	23.00	0.081
11	2462	22.84	0.078

(5) Modulation Standard: IEEE 802.11n, HT20 (6.5Mbps), ANT1 + ANT3

Test Date: May. 07, 2008

Temperature: 20°C

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
01	2412	21.65	0.091
06	2437	22.30	0.091
11	2462	22.08	0.088

(6) Modulation Standard: IEEE 802.11b, HT40(13.5Mbps), ANT1 + ANT3

Test Date: May. 07, 2008

Temperature: 20°C

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
03	2422	22.54	0.082
06	2437	22.42	0.080
09	2452	22.44	0.080

The MPE is calculated as  $0.093\text{mW} / \text{cm}^2 < \text{limit } 1\text{ mW} / \text{cm}^2$ . 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.