

## 1.1. Test Result of RF Exposure Evaluation

- . Product: Wireless-N ADSL2+ Modem Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

### 1.1.1. Antenna Gain

The maximum Gain is 1.8 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)

Test Date: May. 15, 2008      Temperature: 20      Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
01	2412	17.10	0.015
06	2437	17.01	0.015
11	2462	16.90	0.015

(2) Modulation Standard: IEEE 802.11g(54Mbps)

Test Date: May. 15, 2008      Temperature: 20      Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
01	2412	15.02	0.010
06	2437	15.14	0.010
11	2462	14.98	0.009

(3) Modulation Standard: IEEE 802.11n, HT20(130Mbps)

Test Date: May. 15, 2008      Temperature: 20      Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
01	2412	12.51	0.005
06	2437	12.62	0.006
11	2462	12.61	0.005

(4) Modulation Standard: IEEE 802.11g(54Mbps)

Test Date: May. 15, 2008

Temperature: 20

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
03	2422	12.73	0.006
06	2437	12.55	0.005
09	2452	12.48	0.005

The MPE is calculated as  $0.015 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$ . 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.