

1.1. Test Result of RF Exposure Evaluation

- . Product: RangeMax Next Wireless 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), ANT-L

Test Date: May. 26, 2008 Temperature: 20 Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	16.95	0.015
06	2437	17.07	0.015
11	2462	17.01	0.015

(2) Modulation Standard: IEEE 802.11g(54Mbps), ANT-L

Test Date: May. 26, 2008 Temperature: 20 Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	15.18	0.010
06	2437	15.18	0.010
11	2462	15.16	0.010

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

Test Date: May. 26, 2008 Temperature: 20 Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	17.11	0.015
06	2437	16.98	0.015
11	2462	16.93	0.015

(4) Modulation Standard: IEEE 802.11g(54Mbps), ANT-R

Test Date: May. 26, 2008 Temperature: 20 Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	15.24	0.010
06	2437	15.13	0.010
11	2462	15.10	0.010

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

Test Date: May. 26, 2008 Temperature: 20 Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	12.78	0.006
06	2437	12.63	0.006
11	2462	12.75	0.006

(6) Modulation Standard: IEEE 802.11n, HT40(270Mbps)

Test Date: May. 26, 2008 Temperature: 20 Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
03	2422	12.14	0.005
06	2437	12.20	0.005
09	2452	12.25	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.