

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 of 20 cm

Modulation Standard: IEEE 802.11b

Test Date: Oct. 12, 2006 Temperature: 25 Humidity: 68%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	23.30	0.064
06	2437	23.07	0.061
11	2462	22.09	0.049

Modulation Standard: IEEE 802.11g

Test Date: Oct. 12, 2006 Temperature: 25 Humidity: 68%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
03	2422	21.00	0.038
06	2437	20.86	0.037
09	2452	19.83	0.029

Modulation Standard: IEEE 802.11MIMO

Test Date: Oct. 12, 2006 Temperature: 25 Humidity: 68%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	24.43	0.084
06	2437	24.19	0.079
11	2462	23.12	0.062

Modulation Standard: IEEE 802.11MIMO + CB

Test Date: Oct. 12, 2006 Temperature: 25 Humidity: 68%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
03	2422	24.67	0.088
06	2437	24.49	0.085

09	2452	24.15	0.078
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The MPE is calculated as $0.088 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. 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.