

1.1. Test Result of RF Exposure Evaluation

- . Product: 802.11N Wireless Broadband Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

1.1.1. Antenna Gain

Antenna 1: External Antenna, 5 dBi
Antenna 2: Internal Antenna, 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

Test Date: Nov. 19, 2008

Temperature: 25

Humidity: 70%

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)		Power Density (S) (mW/Cm ²)	
			Antenna 1	Antenna 2	Antenna 1	Antenna 2
802.11b (11Mbps)	01	2412	24.08	24.08	0.161	0.077
	06	2437	24.29	24.29	0.169	0.081
	11	2462	24.15	24.15	0.164	0.078
802.11g (54Mbps)	01	2412	22.63	22.63	0.115	0.055
	06	2437	22.79	22.79	0.120	0.057
	11	2462	22.61	22.61	0.115	0.055
802.11n HT20 (130Mbps)	01	2412	26.61	26.61	0.288	0.138
	06	2437	26.70	26.70	0.294	0.141
	11	2462	26.21	26.21	0.263	0.126
802.11n HT40 (270Mbps)	03	2422	26.00	26.00	0.250	0.120
	06	2437	25.82	25.82	0.240	0.115
	09	2452	24.99	24.99	0.198	0.095

The MPE is calculated as $0.294\text{mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. 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.