

1.1. Test Result of RF Exposure Evaluation

- . Product: 802.11n Wireless Gigabit AP Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

1.1.1. Antenna Gain

ANT R: Dipole antenna, 5 dBi

ANT L: Dipole antenna, 5 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: Jan. 05, 2012

Temperature: 25°C

Atmospheric pressure: 1020 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)			Power Density (S) (mW/cm ²)		
			ANT R	ANT L	R+L	ANT R	ANT L	R+L
802.11b (11Mbps)	01	2403	24.64	23.91	27.30	0.183	0.155	0.338
	06	2438	25.47	25.11	28.30	0.222	0.204	0.425
	11	2478	25.24	24.78	28.03	0.210	0.189	0.400
802.11g (54Mbps)	01	2412	21.72	21.58	24.66	0.093	0.091	0.184
	06	2437	21.91	21.87	24.90	0.098	0.097	0.194
	11	2462	21.80	21.72	24.77	0.095	0.093	0.189

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)			Power Density (S) (mW/cm ²)		
			ANT R	ANT L	R+L	ANT R	ANT L	R+L
802.11n HT20 (130Mbps)	01	2412	17.18	17.21	20.21	0.033	0.033	0.066
	06	2437	18.77	18.64	21.72	0.047	0.046	0.093
	11	2462	18.89	18.71	21.81	0.049	0.047	0.095
802.11n HT40 (270Mbps)	03	2422	18.76	18.73	21.76	0.047	0.047	0.094
	06	2437	18.54	18.40	21.48	0.045	0.044	0.088
	09	2452	18.69	18.58	21.65	0.047	0.045	0.092

The MPE is calculated as $0.425 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.

For 2403-2478 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.