

1.1. Test Result of RF Exposure Evaluation

- . Product: High Power Wireless-N 600mW Smart Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATS2-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. 03, 2012

Temperature: 25

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	2412	11.11	11.26	14.20	0.008	0.008	0.016
	06	2437	24.60	24.26	27.44	0.181	0.168	0.349
	11	2462	24.41	23.52	27.00	0.174	0.141	0.315
802.11g (54Mbps)	01	2412	19.27	18.35	21.84	0.053	0.043	0.096
	06	2437	19.05	18.46	21.78	0.051	0.044	0.095
	11	2462	18.30	17.29	20.83	0.043	0.034	0.077

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	15.93	16.04	19.00	0.025	0.025	0.050
	06	2437	15.53	15.31	18.43	0.022	0.021	0.043
	11	2462	14.92	14.42	17.69	0.020	0.017	0.037
802.11n HT40 (270Mbps)	03	2412	15.23	16.49	18.92	0.021	0.028	0.049
	06	2437	15.50	15.72	18.62	0.022	0.023	0.045
	09	2462	15.12	15.34	18.24	0.020	0.022	0.042

The MPE is calculated as 0.349 mW / cm² < limit 1 mW / cm². 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.