

Test Result of RF Exposure Evaluation

- . Product: SMB Wireless N Gigabit VPN Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD

Antenna Gain

Frequency Range: 2.412-2.462 GHz
ANT 1, 2:
Antenna type: Dipole Antenna
Antenna Gain: 2 dBi (2.4GHz Band)

EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

Output Power into Antenna & RF Exposure Evaluation Distance

Test Date: Apr. 19, 2010

Temperature: 25°C

Atmospheric pressure: 1022 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)		Power Density (S) (mW/cm ²)	
			Ant 1	Ant 2	Ant 1	Ant 2
802.11b (11Mbps)	01	2412	18.06	18.15	0.020	0.021
	06	2437	18.10	18.14	0.020	0.021
	11	2462	18.39	18.11	0.022	0.020
802.11g (54Mbps)	01	2412	16.35	16.51	0.014	0.014
	06	2437	16.32	16.21	0.014	0.013
	11	2462	16.43	16.07	0.014	0.013
802.11n HT20 (130Mbps)	01	2412	17.14		0.016	
	06	2437	17.05		0.016	
	11	2462	17.24		0.017	
802.11n HT40 (270Mbps)	03	2422	16.10		0.013	
	06	2437	15.99		0.013	
	09	2452	16.00		0.013	

The MPE is calculated as $0.022 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, SAR test are not required.