

Test Result of RF Exposure Evaluation

- . Product: 4 Port Wireless USB Server
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD

Calculation distance (portable application): d=20cm
Power Density (Friis): $E = \sqrt{30P}/d$ (mW/cm²)
(P=EIRP Output power to Antenna incl. Antenna Gain)

Antenna Gain

Frequency Range: 2.412-2.462 GHz
Antenna type: Dipole Antenna
Antenna Gain: 2 dBi

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: Sep. 23, 2011

Temperature: 24

Atmospheric pressure: 1020 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
802.11b (11Mbps)	01	2412	17.68	0.018
	06	2437	17.45	0.018
	11	2462	17.28	0.017
802.11g (54Mbps)	01	2412	15.32	0.011
	06	2437	15.07	0.010
	11	2462	15.38	0.011
802.11n HT20 (130Mbps)	01	2412	15.24	0.011
	06	2437	15.39	0.011
	11	2462	15.29	0.011
802.11n HT40 (270Mbps)	03	2422	15.13	0.010
	06	2437	15.26	0.011
	09	2452	15.35	0.011

The MPE is calculated as $0.018 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.