

1.1. Test Result of RF Exposure Evaluation

- . Product: Wireless G Universal Range Extender
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Transmit/ Receive

1.1.1. Antenna Gain

Antenna 1 Gain: The maximum Gain is 1.8 dBi.

Antenna 2 Gain: The maximum Gain is 3 dBi.

Antenna 3 Gain : The maximum Gain is 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

(1) Antenna 1, Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Oct. 11, 2005 Temperature: 25°C Humidity: 65%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) 20 cm (mW/cm ²)
01	2412	18.07	0.0190
06	2437	18.28	0.0200
11	2462	18.35	0.0210

(2) Antenna 1, Modulation Standard: IEEE 802.11g (48Mbps)

Test Date: Oct. 11, 2005 Temperature: 25°C Humidity: 65%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) 20 cm (mW/cm ²)
01	2412	15.72	0.0110
06	2437	15.80	0.0110
11	2462	16.05	0.0120

(3) Antenna 2, Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Oct. 11, 2005 Temperature: 25°C Humidity: 65%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) 20 cm (mW/cm ²)
01	2412	18.07	0.0250
06	2437	18.28	0.0270
11	2462	18.35	0.0270

(4) Antenna 2, Modulation Standard: IEEE 802.11g (48Mbps)

Test Date: Oct. 11, 2005 Temperature: 25°C Humidity: 65%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) 20 cm (mW/cm ²)
01	2412	15.72	0.0150
06	2437	15.80	0.0150
11	2462	16.05	0.0160

(5) Antenna 3, Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Oct. 11, 2005 Temperature: 25°C Humidity: 65%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) 20 cm (mW/cm ²)
01	2412	18.07	0.0400
06	2437	18.28	0.0420
11	2462	18.35	0.0430

(6) Antenna 3, Modulation Standard: IEEE 802.11g (48Mbps)

Test Date: Oct. 11, 2005 Temperature: 25°C Humidity: 65%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) 20 cm (mW/cm ²)
01	2412	15.72	0.0230
06	2437	15.80	0.0240
11	2462	16.05	0.0250

The MPE is calculated as $0.043 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.