

1.1. Test Result of RF Exposure Evaluation

- . Product: HotPort Wireless Mesh Node
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

1.1.1. Antenna Gain

Antenna 1: The maximum Gain is 8.0 dBi.

Antenna 2: The maximum Gain is 4.0 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

Antenna 1

Test Date: April 15, 2005 Temperature: 26°C Humidity: 65%

Transmit Rate: 54Mbps Atmospheric pressure: 1038mmHg

Frequency Range: 5.25-5.35 GHz

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²) @20cm
01	---	---	---
04	---	---	---
05	5260	16.75	0.0590
08	5320	16.88	0.0610

Frequency Range: 5.725-5.850 GHz

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²) @20cm
09	5745	15.67	0.0460
11	5785	15.81	0.0480
13	8525	15.82	0.0480

Antenna 2

Test Date: April 15, 2005 Temperature: 26°C Humidity: 65%

Transmit Rate: 54Mbps Atmospheric pressure: 1038mmHg

Frequency Range: 5.35-5.35 GHz

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²) @20cm
01	---	---	---
04	---	---	---
05	5260	16.75	0.0240
08	5320	16.88	0.0240

Frequency Range: 5.725-5.850 GHz

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²) @20cm
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The MPE is calculated as $0.0610 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.