

## 1.1. Test Result of RF Exposure Evaluation

- . Product: 802.11g Wireless Broad Band Router
- . 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 1.8dBi.

Antenna 2: The maximum Gain is 1.8dBi.

### 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

Modulation Standard: IEEE 802.11b

Test Date: Sep. 24, 2004      Temperature: 27°C      Humidity: 65%

| Channel | Channel Frequency (MHz) | Output Power to Antenna (dBm) | Power Density (S) (mW/cm <sup>2</sup> ) |
|---------|-------------------------|-------------------------------|-----------------------------------------|
| 01      | 2412                    | 14.26                         | 0.0080                                  |
| 06      | 2437                    | 15.05                         | 0.0096                                  |
| 11      | 2462                    | 14.34                         | 0.0082                                  |

Modulation Standard: IEEE 802.11g

Test Date: Sep. 24, 2004      Temperature: 27°C      Humidity: 65%

| Channel | Channel Frequency (MHz) | Output Power to Antenna (dBm) | Power Density (S) (mW/cm <sup>2</sup> ) |
|---------|-------------------------|-------------------------------|-----------------------------------------|
| 01      | 2412                    | 14.10                         | 0.0077                                  |
| 06      | 2437                    | 14.06                         | 0.0077                                  |
| 11      | 2462                    | 13.50                         | 0.0067                                  |

#### Antenna 2

Modulation Standard: IEEE 802.11b

Test Date: Sep. 27, 2004      Temperature: 27°C      Humidity: 58%

| Channel | Channel Frequency (MHz) | Output Power to Antenna (dBm) | Power Density (S) (mW/cm <sup>2</sup> ) |
|---------|-------------------------|-------------------------------|-----------------------------------------|
| 01      | 2412                    | 14.30                         | 0.0081                                  |
| 06      | 2437                    | 14.88                         | 0.0093                                  |
| 11      | 2462                    | 14.69                         | 0.0089                                  |

Modulation Standard: IEEE 802.11g

Test Date: Sep. 27, 2004      Temperature: 27°C      Humidity: 58%

| Channel | Channel Frequency (MHz) | Output Power to Antenna (dBm) | Power Density (S) (mW/cm <sup>2</sup> ) |
|---------|-------------------------|-------------------------------|-----------------------------------------|
| 01      | 2412                    | 14.02                         | 0.0076                                  |
| 06      | 2437                    | 14.08                         | 0.0077                                  |
| 11      | 2462                    | 13.65                         | 0.0070                                  |

The MPE is calculated as  $0.0093 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$ . So, RF exposure limit warning or SAR test are not required.