RF Exposure Evaluation declaration

Product Name : Wireless-B Ethernet Bridge Model No.: WET11 v2 FCC ID.: Q87-WET11V2

Applicant : Cisco-Linksys, LLC

Address : 17401 Armstrong Ave. Irvine, CA 92614

| Date of Receipt : | Jul 21, 2003 |
|-----------------------|--------------|
| Date of Declaration : | Jul 25, 2003 |
| Report No. : | 037H060FI |

The declaration results relate only to the samples calculated.

The declaration shall not be reproduced except in full without the written approval of QuieTek Corporation.

1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range | Electric Field | Magnetic Field | Power Density | Average Time | |
|---|----------------|----------------|---------------|--------------|--|
| (MHz) | Strength (V/m) | Strength (A/m) | (mW/cm^2) | (Minutes) | |
| (A) Limits for Occupational/ Control Exposures | | | | | |
| 300-1500 | | | F/300 | 6 | |
| 1500-100,000 | | | 5 | 6 | |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | | |
| 300-1500 | | | F/1500 | 6 | |
| 1500-100,000 | | | 1 | 30 | |

F= Frequency in MHz

Friis Formula Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm^2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

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

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

| Product | : | Wireless-B Ethernet Bridge |
|-----------|---|----------------------------|
| Test Item | : | RF Exposure Evaluation |
| Test Site | : | No.1 OATS |
| Test Mode | : | Normal Operation |

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 4.0dBi or 2.51 in linear scale.

| Channel | Channel Frequency (MHz) | Output Power to Antenna (mW) | Power Density at $R = 20 \text{ cm}$ (mW/cm ²) |
|---------|----------------------------|---------------------------------|---|
| 1 | 2412.00 | 56.1048 | 0.0280 |
| 6 | 2437.00 | 63.0957 | 0.0315 |
| 11 | 2462.00 | 58.8844 | 0.0294 |

Output Power Into Antenna & RF Exposure Evaluation Distance:

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm^2 .