



# RF EXPOSURE REPORT

**REPORT NO.:** SA110426E05

**MODEL NO.:** X3000

**FCC ID:** Q87-X3000

**ACCORDING:** FCC Guidelines for Human Exposure  
IEEE C95.1

**APPLICANT:** Cisco Consumer Products LLC

**ADDRESS:** 121 Theory Drive, Irvine, CA 92617, USA

**ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.)  
Ltd., Taoyuan Branch Hsin Chu Laboratory

**LAB ADDRESS:** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA110426E05	Original release	June 20, 2011



## 1.CERTIFICATION

**PRODUCT:** Advanced Wireless ADSL2+ Modem Router  
**BRAND NAME:** Cisco  
**MODEL NO.:** X3000  
**TEST SAMPLE:** R&D SAMPLE  
**APPLICANT:** Cisco Consumer Products LLC  
**STANDARDS:** IEEE C95.1

The above equipment (Model: X3000) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :**  , **DATE:** June 20, 2011  
( Claire Kuan, Specialist )

**APPROVED BY :**  , **DATE:** June 20, 2011  
( May Chen, Deputy Manager )

## 2.RF Exposure Limit

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 3.MPE calculation Formula

$$Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

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

### 4.Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 5. Calculation result of maximum conducted power

FREQUENCY BAND (MHz)	CONDUCTED POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	583.5	3.6	20	0.266	1.00

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