

# RF EXPOSURE REPORT

**REPORT NO.:** SA120615E04C

**MODEL NO.:** FP8134T

**FCC ID:** D6XFP8134T

**RECEIVED:** Oct. 04, 2012

**TESTED:** Oct. 12 ~ Oct. 17, 2012

**ISSUED:** Oct. 18, 2012

**APPLICANT:** TECOM CO., LTD

**ADDRESS:** NO. 23, R&D ROAD 2, SCIENCE-BASED  
INDUSTRIAL PARK HSINCHU, TAIWAN, R.O.C.

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

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## RELEASE CONTROL RECORD

| ISSUE NO.    | REASON FOR CHANGE | DATE ISSUED   |
|--------------|-------------------|---------------|
| SA120615E04C | Original release  | Oct. 18, 2012 |

## 1. CERTIFICATION

**PRODUCT:** 3G Femtocell Access Point  
**MODEL NO.:** FP8134T  
**BRAND:** NEC  
**APPLICANT:** TECOM CO., LTD  
**TESTED:** Oct. 12 ~ Oct. 17, 2012  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**STANDARDS:** **FCC Part 2 (Section 2.1091)**  
**FCC OET Bulletin 65, Supplement C (01-01)**  
**IEEE C95.1**

The above equipment (model: FP8134T) 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 :** Andrea Hsia , **DATE :** Oct. 18, 2012  
Andrea Hsia / Specialist

**APPROVED BY :** Anderson Chiu , **DATE :** Oct. 18, 2012  
Anderson Chiu / Senior Engineer

## 2. RF EXPOSURE

### 2.1 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) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE |                               |                               |                                     |                        |
| 300-1500  | ...                           | ...                           | F/1500                              | 30                     |
| 1500-100,000  | ...                           | ...                           | 1.0                                 | 30                     |

F = Frequency in MHz

### 2.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

### 2.3 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**.

### 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

| FREQUENCY BAND (MHz) | MAX POWER (dBm) | DISTANCE (cm) | POWER DENSITY (mW/ cm <sup>2</sup> ) | LIMIT (mW/cm <sup>2</sup> ) |
|----------------------|-----------------|---------------|--------------------------------------|-----------------------------|
| 2112.4-2152.6        | 16.35           | 20            | 0.0086                               | 1.00                        |