# RF EXPOSURE REPORT

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|---|---|
| **REPORT NO.:** | SA130110C21B |
| **MODEL NO.:** | TEW-810DR |
| **FCC ID:** | XU8TEW810DR |
| **RECEIVED:** | Dec. 28, 2012 |
| **TESTED:** | Dec. 28, 2012 ~ Feb. 04, 2013 |
| **ISSUED:** | May 24, 2013 |

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|---|---|
| **APPLICANT:** | TRENDnet, Inc. |
| **ADDRESS:** | 20675 Manhattan Place, Torrance, CA 90501, USA |

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|---|---|
| **ISSUED BY:** | Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch |
| **LAB ADDRESS:** | No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C. |
| **TEST LOCATION:** | No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C. |

This report should not be used by the client to claim product certification, approval, or endorsement by any government agencies.

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# RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---|---|---|
| SA130110C21B | Original release. | May 24, 2013 |

# 1. CERTIFICATION

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|---|---|
| **PRODUCT:** | AC750 Dual Band Wireless Router |
| **MODEL:** | TEW-810DR |
| **BRAND:** | TRENDnet |
| **APPLICANT:** | TRENDnet, Inc. |
| **TESTED:** | Dec. 28, 2012 ~ Feb. 04, 2013 |
| **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: TEW-810DR) 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 :** May 24, 2013
Suntee Liu / Specialist

**APPROVED BY :** _____ **, DATE :** May 24, 2013
Ken Liu / Senior Manager

# 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 ($mW/cm^2$) | 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

Pd = (Pout*G) / (4*pi*r2)
where
Pd = power density in mW/cm2
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

## 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) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY ($mW/cm^2$) | LIMIT ($mW/cm^2$) |
|---|---|---|---|---|---|
| 2412-2462 | 29.91 | 0 | 20 | 0.195 | 1 |
| 5180-5240 | 16.90 | 0 | 20 | 0.010 | 1 |
| 5745-5825 | 24.50 | 0 | 20 | 0.056 | 1 |