



BUREAU VERITAS

Test Report No.: FS110517N45

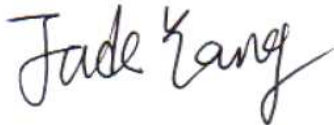

RF EXPOSURE REPORT

| | |
|-----------|---|
| Applicant | SHENZHEN TENDA TECHNOLOGY CO.,LTD |
| Address | Tenda Industrial Park, No.34-1, Shilong Rd.,Shiyan Town,BAO'an District,Shenzhen,P.R.China 518108 |

| | | |
|--------------------------|--|--|
| Manufacturer or Supplier | SHENZHEN TENDA TECHNOLOGY CO.,LTD |  |
| Address | Tenda IndustrialPark, No.34-1, Shilong Rd.,Shiyan Town,BAO'an District,Shenzhen,P.R.China 518108 | |
| Product | ADSL Router | |
| Brand Name | Tenda | |
| Model | W150D | |
| Date of tests | Jun. 12 ~ Jul. 10 , 2011 | |

- FCC Part 2 (Section 2.1091)
- FCC OET Bulletin 65, Supplement C (01-01)
- IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| | |
|---|---|
| Reviewed by Jade Yang Supervisor / EMC Department | Approved by Sam Tung Manager / EMC Department |
|  |  |
| Date: Aug 09, 2011 | |

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specifically mentioned, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification



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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|------------------|-------------------|--------------|
| Original release | N/A | Dec. 6, 2010 |

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BUREAU VERITAS Test Report No.: FS110517N45

1. CERTIFICATION

PRODUCT: ADSL Router

MODEL: W150D

BRAND: Tenda

APPLICANT: SHENZHEN TENDA TECHNOLOGY CO.,LTD

TESTED: Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1



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 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

3. MPE calculation Formula

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

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

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) | MAX POWER (dBm) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/cm ²) | LIMIT (mW/cm ²) |
|------------------------------|-----------------|--------------------|---------------|-------------------------------------|-----------------------------|
| 802.11b max 2412MHz | 17.30 | 5.1 | 20 | 0.0346 | 1.00 |
| 802.11g Max 2462MHz | 17.34 | 5.1 | 20 | 0.0349 | 1.00 |
| 802.11n 20MHz Max 2462MHz | 16.90 | 5.1 | 20 | 0.0315 | 1.00 |
| 802.11n 40MHz Max 2437MHz | 16.99 | 5.1 | 20 | 0.0322 | 1.00 |