



BUREAU VERITAS

Test Report No.: FS110517N41

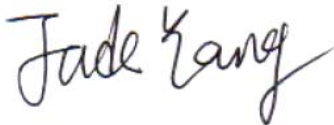

# RF EXPOSURE REPORT

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	W300D	
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



**BUREAU  
VERITAS**

Test Report No.: FS110517N41

## Table of Contents

RELEASE CONTROL RECORD .....	3
1. CERTIFICATION.....	4
2. RF Exposure Limit .....	5
3. MPE calculation Formula .....	5
4. Classification.....	5
5. calculation result of maximum conducted power .....	6



**BUREAU  
VERITAS**

Test Report No.: FS110517N41

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	N/A	Aug. 9, 2010

**Bureau Veritas Shenzhen Co., Ltd.  
Dongguan Branch**

No. 34, Chenwulu Section, Guantai Rd., Houjie  
Town, Dongguan City,  
Guangdong 523942, China

Tel: +86 769 8593 5656  
Fax: +86 769 8593 1080  
Email: [customerservice.dg@cn.bureauveritas.com](mailto:customerservice.dg@cn.bureauveritas.com)



**BUREAU  
VERITAS**

Test Report No.: FS110517N41

## 1. CERTIFICATION

**PRODUCT:** ADSL Router

**MODEL:** W300D

**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

**Bureau Veritas Shenzhen Co., Ltd.  
Dongguan Branch**

No. 34, Chenwulu Section, Guantai Rd., Houjie  
Town, Dongguan City,  
Guangdong 523942, China

Tel: +86 769 8593 5656  
Fax: +86 769 8593 1080  
Email: [customerservice.dg@cn.bureauveritas.com](mailto:customerservice.dg@cn.bureauveritas.com)



## 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

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

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)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
802.11b max 2462MHz	17.76	5.1	20	0.0384	1.00
802.11g Max 2412MHz	20.60	5.1	20	0.0653	1.00
802.11n 20MHz Max 2412MHz	23.13	5.1	20	0.1323	1.00
802.11n 40MHz Max 2452MHz	21.22	5.1	20	0.0852	1.00