


TEST REPORT

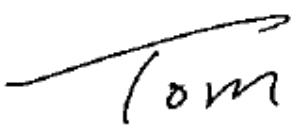

Applicant	SHENZHEN TENDA TECHNOLOGY CO.,LTD.
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Manufacturer or Supplier	SHENZHEN TENDA TECHNOLOGY CO.,LTD, Dongguan Branch	
Address	No. 79 Yuanyi street, Dalang Town, Dongguan City, Guangdong Province, China	
Product	300Mbps Wireless N Access Point	
Brand Name	Tenda	
Model	AP4	
Additional Model & Model Difference	N/A	
Date of tests	May 14, 2015 ~ May 29, 2015 Nov. 30, 2016 ~ Dec. 02, 2016 Jun. 23, 2017 ~ Jul. 08, 2017	

The submitted sample of the above equipment has been tested according to the requirements of the following standards:

☒ EN 62311: 2008

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

Tested by Tom Chen Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
	 Date: Aug. 02, 2017

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 specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

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BUREAU
VERITAS

Test Report No.: SE170623N070

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SE150514N006	Original release	Jun. 02, 2015
SE161128N061	Based on the original report SE150514N006 renewed directive and it need to be retested after engineer evaluated.	Dec. 21, 2016
SE170623N070	Based on the report SE161128N061 renewed RED directive, Don't retest after engineer evaluated.	Aug. 03, 2017



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	300Mbps Wireless N Access Point
MODEL NO.	AP4
NOMINAL VOLTAGE	DC 9V From Adapter
OPERATING TEMPERATURE RANGE	-10~+45°C
MODULATION TECHNOLOGY	DSSS, OFDM
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
OPERATING FREQUENCY	2412-2472MHz for 11b/g/n(HT20) 2422-2462MHz for 11n(HT40)
EIRP POWER	19.06dBm (Measured Max.)
ANTENNA TYPE	Dipole Antenna; 5.0dBi gain

NOTE:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or User's Manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 170623N070) for detailed product photo.
4. The EUT provides completed transmitters and receivers.

MODULATION MODE	TX FUNCTION
802.11b	1TX/1RX
802.11g	1TX/1RX
802.11n (HT20)	2TX/2RX
802.11n (HT40)	2TX/2RX

5. The EUT can be powered by adapter as list as attach.

Adapter	
brand:	N/A
Model:	TEA09E-09060
Input:	AC 100-240V, 50/60Hz, 0.3A
Output:	DC 9V/0.6A
DC Line:	Unshielded, Non-detachable, 1.5m



2. RF EXPOSURE MEASUREMENT

2.1 INTRODUCTION

This International Standard applies to electronic and electrical equipment for which no dedicated product- or product family standard regarding human exposure to electromagnetic fields applies.

The frequency range covered is 0 Hz to 300 GHz.

The object of this generic standard is to provide assessment methods and criteria to evaluate such equipment against basic restrictions or reference levels on exposure of the general public related to electric, magnetic and electromagnetic fields and induced and contact current.

2.2 LIMIT

According to EN 62311: 2008, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified 1999/519/EC.

FREQUENCY RANGE (GHz)	E-FIELD STRENGTH (V/m)
2 ~ 300	61

2.3 CLASSIFICATION OF THE ASSESSMENT METHODS

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the WLAN easy install sheet. So, this product under normal use is located on electromagnetic far field between the human body.

Far Field Calculation Formula

$$E = \eta_0 H = \frac{\sqrt{30PG(\theta, \phi)}}{r}$$

G = antenna gain relative to an isotropic antenna
 θ, ϕ = elevation and azimuth angles to point of investigation
 r = distance from observation point to the antenna
 η_0 = Characteristic impedance of free space



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2.4 TEST RESULTS

CALCULATION FOR MAXIMUM E.I.R.P.

Output Power E.I.R.P. (dBm)	Output Power E.I.R.P. (mW)	E-Field Strength (V/m)	E-Field Strength Limit (V/m)	PASS / FAIL
19.06	80.538	7.772	61.00	PASS