



Health Test Report

For

Applicant name: SHENZHEN TENDA TECHNOLOGY CO., LTD.
Address: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
EUT name: BE5010 Dual-band Wi-Fi 7 Ceiling Access Point
Brand name: Tenda
Model number: i36
Series model number: N/A

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: BTF250603R01105
Test Standards: EN 50385:2017

Test Conclusion: Pass
Date of sample receipt: 2025-06-03
Test date: 2025-06-04 to 2025-08-15
Date of issue: 2025-08-27

Test by: Sean He
Sean He / Tester

Prepared by: Chris Liu
Chris Liu / Project engineer



Approved by:

Ryan.CJ / EMC Manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-08-27	Original
Note:	Once the revision has been made, then previous versions reports are invalid.	

Table of Contents

1.	Introduction.....	4
1.1	Laboratory Location.....	4
1.2	Laboratory Facility.....	4
1.3	Announcement.....	4
2.	Product Information.....	5
2.1	Application Information.....	5
2.2	Manufacturer Information.....	5
2.3	Factory Information.....	5
2.4	General Description of Equipment under Test (EUT).....	5
3.	Test Standard.....	6
4.	Device Category And Levels Limits.....	7
4.1	Test Requirement.....	7
4.2	MPE Calculation Method.....	8
4.3	Assessment Result.....	8

1. Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2. Product Information

2.1 Application Information

Company name:	SHENZHEN TENDA TECHNOLOGY CO., LTD.
Address:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

2.2 Manufacturer Information

Company name:	SHENZHEN TENDA TECHNOLOGY CO., LTD.
Address:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

2.3 General Description of Equipment under Test (EUT)

EUT name:	BE5010 Dual-band Wi-Fi 7 Ceiling Access Point
Under test model name:	i36
Series model name:	N/A
Description of model name differentiation:	N/A
Hardware version:	N/A
Software version:	N/A
Ratings:	Power:48V=800mA from adapter Adapter: MODLE:BN017-A38048E INPUT:100-240V~ 50/60Hz 1.0A OUTPUT:48V=800mA

3. Test Standard

The EUT has been tested according to the following specifications

Section	Identity	Document Title
1	EN 50385:2017	Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100 GHz), when placed on the market

4. Device Category And Levels Limits

4.1 Test Requirement

EN 50385:2017

5 Normative limits

For the assessment of general public exposure from the product, the relevant limits specified as basic restrictions, in Council Recommendation 1999/519/EC Annex II Table 1, or reference levels, in Council Recommendation 1999/519/EC Annex III Table 2, and the accompanying notes to these tables, shall be applied.

For the assessment of worker exposure from the product, the relevant limits specified as exposure limit values, in Directive 2013/35/EU Annex III Tables A.1 and A.3, or action levels in Directive 2013/35/EU Annex III Table B1, and the accompanying notes to these tables, shall be applied.

Directive 2013/35/EU

Table B1

ALs for exposure to electric and magnetic fields from 100 kHz to 300 GHz

Frequency range	Electric field strength ALs(E) [V m ⁻¹] (RMS)	Magnetic flux density ALs(B) [μT] (RMS)	Power density ALs(S) [W m ⁻²]
100 kHz ≤ f < 1 MHz	6,1 × 10 ²	2,0 × 10 ⁶ /f	—
1 ≤ f < 10 MHz	6,1 × 10 ⁸ /f	2,0 × 10 ⁶ /f	—
10 ≤ f < 400 MHz	61	0,2	—
400 MHz ≤ f < 2 GHz	3 × 10 ⁻³ f ^{1/2}	1,0 × 10 ⁻⁵ f ^{1/2}	—
2 ≤ f < 6 GHz	1,4 × 10 ²	4,5 × 10 ⁻¹	—
6 ≤ f ≤ 300 GHz	1,4 × 10 ²	4,5 × 10 ⁻¹	50

Note B1-1: f is the frequency expressed in hertz (Hz).

Note B1-2: [ALs(E)]² and [ALs(B)]² are to be averaged over a six-minute period. For RF pulses, the peak power density averaged over the pulse width shall not exceed 1 000 times the respective ALs(S) value. For multi-frequency fields, the analysis shall be based on summation, as explained in the practical guides referred to in Article 14.

Note B1-3: ALs(E) and ALs(B) represent maximum calculated or measured values at the workers' body position. This results in a conservative exposure assessment and automatic compliance with ELVs in all non-uniform exposure conditions. In order to simplify the assessment of compliance with ELVs, carried out in accordance with Article 4, in specific non-uniform conditions, criteria for the spatial averaging of measured fields based on established dosimetry will be laid down in the practical guides referred to in Article 14. In the case of a very localised source within a distance of a few centimetres from the body, compliance with ELVs shall be determined dosimetrically, case by case.

Note B1-4: The power density shall be averaged over any 20 cm² of exposed area. Spatial maximum power densities averaged over 1 cm² should not exceed 20 times the value of 50 W m⁻². Power densities from 6 to 10 GHz are to be averaged over any six-minute period. Above 10 GHz, the power density shall be averaged over any 68/f^{1.05}-minute period (where f is the frequency in GHz) to compensate for progressively shorter penetration depth as the frequency increases.

4.2 MPE Calculation Method

Equation from page 98 of EN 62232, Edition 2017

$$E = \frac{\sqrt{30 P G}}{r} \sin(\theta)$$

Where:

E: E-field strength (V/m)

P: power input to antenna (Watt)

G: is the antenna gain relative to an isotropic antenna;

θ , ϕ : are elevation and azimuth angles to point of investigation;

r: is the distance from observation point to the antenna;

Z_0 : is the characteristic impedance of free space.

4.3 Assessment Result

Modulation	Frequency (MHz)	Max Output Power (dBm)	Antenna Gain (dBi)	E Field Strength (V/m)	E Field Strength Limit (V/m)	Result
2.4GWIFI	2412	13.75	5.26	7.75	140	Pass
5GWIFI	5250	9.7	6.58	5.68	140	Pass
5.8G	5825	5.77	5.93	3.35	140	Pass

Note: r is the distance from observation point to the antenna which is declared by the applicant, r=0.2m.



BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,
Bao'an District, Shenzhen, China

www.btf-lab.com

--END OF REPORT--