

## HEALTH TEST REPORT

For

Shenzhen Sonoff Technologies Co., Ltd.

ZigBee Smart Plug

Test Model: S26R2ZBTPF

Prepared for : Shenzhen Sonoff Technologies Co., Ltd.  
Address : 1001, BLDG8, Lianhua Industrial Park, shenzhen, GD, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
Address : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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Date of receipt of test sample : May 27, 2021  
Number of tested samples : 1  
Date of Test : Prototype  
Date of Test : May 27, 2021 ~ June 10, 2021  
Date of Report : June 16, 2021



**HEALTH TEST REPORT**  
**EN 62479: 2010 & EN 50663: 2017**  
 Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

**Report Reference No.** ..... : **LCS210526100AEC**  
**Date of Issue** ..... : June 16, 2021

**Testing Laboratory Name**..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**  
**Address** ..... : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China  
 Full application of Harmonised standards   
**Testing Location/ Procedure**..... : Partial application of Harmonised standards   
 Other standard testing method

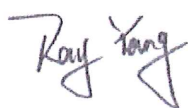
**Applicant's Name** ..... : **Shenzhen Sonoff Technologies Co., Ltd.**  
**Address** ..... : 1001, BLDG8, Lianhua Industrial Park, shenzhen, GD, China

**Test Specification**  
**Standard** ..... : EN 62479: 2010  
 ..... : EN 50663: 2017  
**Test Report Form No.** ..... : LCSEMC-1.0  
**TRF Originator** ..... : Shenzhen LCS Compliance Testing Laboratory Ltd.  
**Master TRF** ..... : Dated 2011-03

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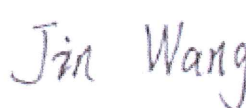
**Test Item Description.** ..... : **ZigBee Smart Plug**  
**Trade Mark** ..... : SONOFF  
**Test Model**..... : S26R2ZBTPF  
**Ratings** ..... : Input: AC 100-250V, 50/60Hz, 16A  
**Result** ..... : **Positive**

**Compiled by:**



Ray Yang/ Administrators

**Supervised by:**



Jin Wang/ Technique principal

**Approved by:**



Gavin Liang/ Manager

# HEALTH --TEST REPORT

|  |                                       |
|--|---------------------------------------|
| <b>Test Report No. : LCS210526100AEC</b> | <u>June 16, 2021</u><br>Date of issue |
|--|---------------------------------------|

|                          |   |
|--------------------------|---|
| Test Model .....         | : S26R2ZBTPF  |
| EUT.....                 | : ZigBee Smart Plug   |
| <b>Applicant.....</b>    | <b>: Shenzhen Sonoff Technologies Co., Ltd.</b>             |
| Address.....             | : 1001, BLDG8, Lianhua Industrial Park, shenzhen, GD, China |
| Telephone.....           | : /   |
| Fax.....                 | : /   |
| <b>Manufacturer.....</b> | <b>: Shenzhen Sonoff Technologies Co., Ltd.</b>             |
| Address.....             | : 1001, BLDG8, Lianhua Industrial Park, shenzhen, GD, China |
| Telephone.....           | : /   |
| Fax.....                 | : /   |
| <b>Factory.....</b>      | <b>: /</b>  |
| Address.....             | : /   |
| Telephone.....           | : /   |
| Fax.....                 | : /   |

|                    |                 |
|--------------------|-----------------|
| <b>Test Result</b> | <b>Positive</b> |
|--------------------|-----------------|

The test report merely corresponds to the test sample.  
 It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

### Revision History

| Revision | Issue Date    | Revisions     | Revised By  |
|----------|---------------|---------------|-------------|
| 000      | June 16, 2021 | Initial Issue | Gavin Liang |
|          |               |               |             |
|          |               |               |             |

## 1. GENERAL INFORMATION

### 1.1. Product Description for Equipment Under Test (EUT)

|                     |                                    |
|---------------------|------------------------------------|
| EUT                 | : ZigBee Smart Plug                |
| Test Model          | : S26R2ZBTPF                       |
| Power Supply        | : Input: AC 100-250V, 50/60Hz, 16A |
| Hardware Version    | : V2.6                             |
| Software Version    | : V3.5.0                           |
| Zigbee              | :                                  |
| Frequency Range     | : 2405-2480MHz                     |
| Channel Spacing     | : 5MHz                             |
| Channel Number      | : 15 Channels                      |
| Modulation Type     | : O-QPSK                           |
| Antenna Description | : Internal Antenna, 1.0dBi(Max.)   |

## 1.2. Objective

According to its specifications, the EUT must comply with the requirements of the following standards:  
 EN 62479: 2010 – Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)  
 EN 50663: 2017 – Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

## 1.3. Test Methodology

All measurements contained in this report were conducted with EN 62479: 2010 and EN 50663: 2017.

## 1.4. Facilities

All measurement facilities used to collect the measurement data are located at Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao' an District, Shenzhen, Guangdong, China .

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

## 1.5. Host System Configuration List and Details

| Manufacturer | Description | Model | Serial Number | Certificate |
|--------------|-------------|-------|---------------|-------------|
| --           | --          | --    | --            | --          |

## 1.6. External I/O Cable

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-------|
| --                   | --       | --    |

## 1.7. Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

## 1.8. Laboratory Accreditations And Listings

### Site Description

- EMC Lab. : NVLAP Accreditation Code is 600167-0.  
 FCC Designation Number is CN5024.  
 CAB identifier is CN0071.  
 CNAS Registration Number is L4595.
- Name of Firm : Shenzhen LCS Compliance Testing Laboratory Ltd.
- Site Location : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

## 1.9. Measurement Uncertainty

| Test Item                     | Uncertainty            |
|-------------------------------|------------------------|
| Radio Frequency               | : $0.9 \times 10^{-4}$ |
| Total RF Power, Conducted     | : 1.0 dB               |
| RF Power Density, Conducted   | : 1.8 dB               |
| Spurious Emissions, Conducted | : 1.8 dB               |
| All Emissions, Radiated       | : 3.1 dB               |
| Temperature                   | : 0.5°C                |
| Humidity                      | : 1 %                  |
| DC And Low Frequency Voltages | : 1 %                  |

## 2. HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

### 2.1 Test Methodology

#### 2.1.1. General description of applied standards

According to its specifications, the EUT must comply with the requirements of the following standards:  
EN 62479- Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)  
EN 50663- Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

#### 2.1.2. Description of test modes

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

### 2.2 Test limit

If the average power emitted by apparatus operating in the frequency range 10 MHz – 300GHz is less than or equal to 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

### 2.3 Test Results

Since Max. output power for Zigbee is 6.01mW (7.79dBm According to radio test report LCS210526100AEB) less than 20mW specified in EN 62479 and EN 50663. This unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).

The unit complies with the EN 62479 and EN 50663 for RF exposure requirement.

No non-compliance noted.

-----THE END OF TEST REPORT-----