


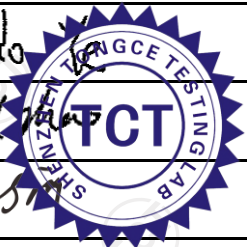


# TEST REPORT

<b>FCC ID</b> .....:	2AVTWZHXRFPS	
<b>Test Report No.</b> .....	TCT221013E006	
<b>Date of issue</b> .....	Nov. 11, 2022	
<b>Testing laboratory</b> .....:	SHENZHEN TONGCE TESTING LAB	
<b>Testing location/ address:</b>	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China.	
<b>Applicant's name</b> .....	Huizhou Zihanxuan Household Electrical Co., Ltd.	
<b>Address</b> .....	Yinglong Industrial park, Tiantou Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong, China.	
<b>Manufacturer's name</b> ....:	Huizhou Zihanxuan Household Electrical Co., Ltd.	
<b>Address</b> .....	Yinglong Industrial park, Tiantou Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong, China.	
<b>Standard(s)</b> .....:	FCC CFR Title 47 Part 2.1091	
<b>Product Name</b> .....	ELECTRIC FIREPLACE	
<b>Trade Mark</b> .....:	N/A	
<b>Model/Type reference</b> .....	ZHX-50-086, ZHX-36-089, ZHX-42-083, ZHX-60-088, ZHX-72-091, ZHX-26-131, ZHX-26-132, ZHX-30-072, ZHX-30-073	
<b>Rating(s)</b> .....	AC 120V, 60Hz, 1500W	
<b>Date of receipt of test item</b> .....	Oct. 13, 2022	
<b>Date (s) of performance of test</b> .....	Oct. 08, 2022 - Oct. 18, 2022	
<b>Tested by (+signature)</b> .....:	Onnado YE	
<b>Check by (+signature)</b> .....	Beryl ZHAO	
<b>Approved by (+signature)</b> :	Tomsin	



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## Table of Contents

<b>1. General Product Information .....</b>	<b>3</b>
1.1. EUT description .....	3
1.2. Model(s) list .....	3
<b>2. Facilities and Accreditations .....</b>	<b>4</b>
2.1. Facilities .....	4
2.2. Location.....	4
<b>3. Test Results and Measurement Data .....</b>	<b>5</b>

## 1. General Product Information

### 1.1. EUT description

Test item description .....	ELECTRIC FIREPLACE
Model/Type reference.....	ZHX-50-086
Sample Number.....	TCT221013E004-0101
Operation Frequency .....	For BLE: 2402MHz~2480MHz For WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))
Modulation Type .....	For BLE: GFSK For WIFI: DSSS(802.11b), OFDM (802.11g/802.11n)
Antenna Type.....	PCB Antenna
Antenna Gain.....	2.54 dBi
Rating(s).....	AC 120V, 60Hz, 1500W

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

### 1.2. Model(s) list

No.	Model No.	Tested with
1	ZHX-50-086	<input checked="" type="checkbox"/>
Other models	ZHX-36-089, ZHX-42-083, ZHX-60-088, ZHX-72-091, ZHX-26-131, ZHX-26-132, ZHX-30-072, ZHX-30-073	<input type="checkbox"/>

Note: ZHX-50-086 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of ZHX-50-086 can represent the remaining models.

## 2. Facilities and Accreditations

### 2.1. Facilities

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

- FCC - Registration No.: 645098  
SHENZHEN TONGCE TESTING LAB  
Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1  
SHENZHEN TONGCE TESTING LAB  
CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

### 2.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict,  
Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

### 3. Test Results and Measurement Data

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b), 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> )	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

Note: f = frequency in MHz

#### EVALUATION METHOD

Transmission 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

#### Assessment Result

**Passed**                       **Not Applicable**

Frequency range (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
2402-2480	BLE	-2.52	-2.00	0.0002	1.0000	Pass
2402-2480	WIFI	17.63	18.00	0.2215	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.

**\*\*\*\*\*END OF REPORT\*\*\*\*\***