

TEST REPORT

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

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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	☒
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	☐

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 ²)	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 ²)	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 ²)	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/cm², **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 ²)	Limit (mW/cm ²)	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*******