

	TEST REPOR	T	
FCC ID:	2AKAIHNDPF10		
Test Report No::	TCT230522E023	(3)	
Date of issue::	Jun. 08, 2023		
Testing laboratory:	SHENZHEN TONGCE TESTING	G 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::	SHENZHEN HARMONY INDUS	TRIAL CO., LTD	
Address::	BLOCK 2, JIAYUAN INDUSTRIA COMMUNITY, HIGH-TECH PAF FUYONG, BAO'AN, SHENZHEN	RK, NO 2 FUYUANROAD,	
Manufacturer's name:	SHENZHEN HARMONY INDUSTRIAL CO., LTD		
Address::	BLOCK 2, JIAYUAN INDUSTRIAL ZONE, HEPING COMMUNITY, HIGH-TECH PARK, NO 2 FUYUANROAD, FUYONG, BAO'AN, SHENZHEN, China		
Standard(s)::	FCC CFR Title 47 Part 1.1307		
Product Name::	digital photo frame		
Trade Mark:	N/A		
Model/Type reference:	HN-DPF1001, MN632, MN675, HN-DPF1005, HN-DPF1006	HN-DPF1002, HN-DPF1003,	
Rating(s):	Adapter Information: MODEL: RSF-DY080A-0502000US INPUT: AC 100-240V, 50/60Hz, 0.3A OUTPUT: DC 5V, 2A		
Date of receipt of test item:	May 22, 2023		
Date (s) of performance of test:	May 22, 2023 - Jun. 08, 2023		
Tested by (+signature):	Ronaldo LUO	P-rala Ewase	
Check by (+signature):	Beryl ZHAO	Bod TCT	
Approved by (+signature):	Tomsin	Tomsnotes sol	

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name:	digital photo frame		
Model/Type reference:	HN-DPF1001		
Sample Number:	TCT230522E022-0101		
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))		
Modulation Type:	DSSS(802.11b), OFDM (802.11g/802.11n)		
Antenna Type:	Internal Antenna		
Antenna Gain:	1.45dBi		
Rating(s)::	Adapter Information: MODEL: RSF-DY080A-0502000US INPUT: AC 100-240V, 50/60Hz, 0.3A OUTPUT: DC 5V, 2A		

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	HN-DPF1001	
Other models	MN632, MN675, HN-DPF1002, HN-DPF1003, HN-DPF1005, HN-DPF1006	

Note: HN-DPF1001 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 HN-DPF1001 can represent the remaining models.



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2. General Information

2.1. Test environment and mode

Item	Normal condition			
Temperature	+25°C			
Voltage	AC 120V/60Hz			
Humidity	56%			
Atmospheric Pressure:	1008 mbar			
Test Mode:				
Transmitting Mode:	Keep the EUT in continuous transmitting by select channel			

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1		1	1	1

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



3. Facilities and Accreditations

3.1. 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

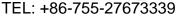
CAB identifier: CN0031

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

3.2. 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







4. Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) The maximum output power for antenna is 16.01dBm (39.90mW) at 2462MHz, 1.45dBi antenna gain (with 1.40 numeric antenna gain.)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Calculation

Given

$$E = \sqrt{\frac{30 \times P \times G}{d}} \quad \& \quad S = \frac{E^2}{3770}$$

Where

E = Field Strength in Volts / meter

P = Power in Watts

G=Numeric antenna gain

d=Distance in meters

S=Power Density in milliwatts / square centimeter

Maximum Permissible Exposure

output power= 39.90mW

Numeric Antenna gain= 1.40

Substituting the MPE safe distance using d=20cm into above equation.

Yields:

S=0.000199*P*G

Where P=Power in mW

G=Numeric antenna gain

S=Power density in mW/cm²

Power density= 0.011116mW/cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)

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

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