

TEST REPORT

Reference No...... : WTX21X11129302W-2
FCC ID : 2AYVL-3145301
Applicant : Dongguan Jiufeng Hardware and Plastics Co. Ltd.
Address..... : Da Sheng Road#6, Da Mao Ling Industrial Park, Dongping Village , Qishi
Town, Dongguan, China
Product Name : Bunk Shelf with wireless charger
Test Model. : 69808806/3145301
Standards : KDB 680106 D01 V03
Date of Receipt sample : Nov. 25, 2021
Date of Test..... : Nov. 25, 2021 to Dec. 21, 2021
Date of Issue : Dec. 21, 2021
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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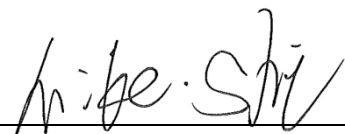
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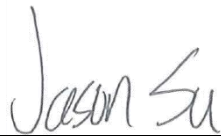
Tested by:

Reviewed By:

Approved & Authorized By:



Mike Shi / Project Engineer



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Report version

Version No.	Date of issue	Description
Rev.00	Dec. 21, 2021	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Dongguan Jiufeng Hardware and Plastics Co. Ltd.
 Address of applicant: Da Sheng Road#6, Da Mao Ling Industrial Park,
 Dongping Village , Qishi Town, Dongguan, China

Manufacturer: Dongguan City GuoHong Lighting Products Co., Ltd.
 Address of manufacturer: Room 116, No. 2 The first road of Liantong Humen
 Town, Dongguan, Guangdong, PR China

General Description of EUT	
Product Name:	Bunk Shelf with wireless charger
Trade Name:	Squared Away
Model No.:	69808806/3145301
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	112~205KHz
Modulation Type:	ASK
Antenna Type:	Coil Antenna
Input:	DC9V 1.7A
Wireless output:	10W Max
Power adapter:	MODEL:JML-0901700-18 INPUT:100-240V~ 50/60Hz 0.5A OUTPUT:DC9V,1.7A

1.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200AC	180ZX10226	2021-05-20	2024-05-19
Note: The deviation response is 0.8dB.					

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
wireless charging load	YBZ	YBZ wireless charging tester	/

EUT Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC CABLE	2.5	Unshielded	Without Ferrite

2. RF Exposure Test Report

2.1 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

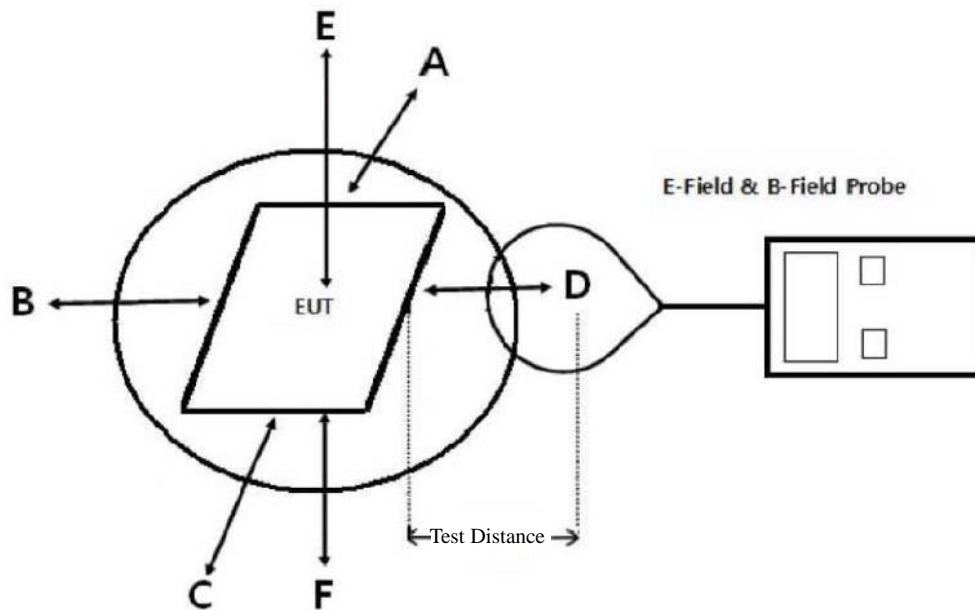
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

2.2 Test Conditions

Test Mode	Description	Remark	Power Supply Mode
TM1	Wireless charging	Wireless output(5W)	DC9V 1.7A
TM2	Wireless charging	Wireless output(10W)	DC9V 1.7A
Measurement Distance:	7 cm, 14cm, 17cm and 20 cm		

2.3 Test Procedure



- The measurement probe was placed at test distance (A: 14cm, B: 17cm, C: 14cm, D: 7cm, E&F: 20cm) which is between the edge of the charger and the geometric center of probe.
- The highest emission level was recorded at the measurement points (A, B, C, D, E, F).
- The EUT was measured according to the distance of KDB 680106 D01 V03.

2.4 Test Result

The EUT complies with item 5.2 of KDB 680106 D01V03

- Power transfer frequency is less than 1 MHz
Yes, the device operates in the frequency range from 112 kHz to 205 kHz.
- Output power from each primary coil is less than or equal to 15 watts
Yes, the maximum output power of the primary coil is less than 10W.
- The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
Yes, the client device includes only single primary coils.
- Client device is inserted in or placed directly in contact with the transmitter
Yes, Client device is placed directly in contact with the transmitter.
- Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

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No, it is portable exposure conditions.

6. The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

No, At the test distance (A: 14cm, B: 17cm, C: 14cm, D: 7cm, E&F: 20cm), The EUT field strength levels are less than 50% of the MPE limit, refer to test TM1, TM2 list.

Test Mode: TM1

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	5.32	614	307
Point F	6.86	614	307
Point A	4.00	614	307
Point B	4.06	614	307
Point C	3.72	614	307
Point D	8.14	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.27	1.63	0.815
Point F	0.37	1.63	0.815
Point A	0.23	1.63	0.815
Point B	0.07	1.63	0.815
Point C	0.19	1.63	0.815
Point D	0.37	1.63	0.815

Test Mode: TM2

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	5.91	614	307
Point F	7.37	614	307
Point A	4.59	614	307
Point B	4.72	614	307
Point C	4.30	614	307
Point D	8.80	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.34	1.63	0.815
Point F	0.43	1.63	0.815
Point A	0.28	1.63	0.815
Point B	0.14	1.63	0.815
Point C	0.24	1.63	0.815
Point D	0.43	1.63	0.815

2.5 Test Photos



APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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