

EMC-TRF-03 Rev 1.1 Report No.: GZCR220600084905

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FCC ID: 2ADAP-GRJWB04J4

# RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2206000849HS

Applicant: GREE Electric Appliances, Inc. of Zhuhai

Address of Applicant: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070

Manufacturer: GREE Electric Appliances, Inc. of Zhuhai

Address of Manufacturer: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070

Factory: GREE Electric Appliances, Inc. of Zhuhai

Address of Factory: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070

**Equipment Under Test (EUT):** 

**EUT Name**: WIFI module **Model No**.: GRJWB04-J4

Trade Mark: GREE

Standard(s): 47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

 Date of Receipt:
 2022-06-30

 Date of Evaluation:
 2022-09-15

 Date of Issue:
 2022-09-29

Evaluation Result: Pass\*

Ricky Liu EMC Laboratory Manager



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<sup>\*</sup> In the configuration evaluated, the EUT complied with the standards specified above.



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Revision Record						
Version Report No. Date Remark						
01	GZCR220600084905	2022-09-29	Original			

Authorized for issue by:		
	Cof Vlu	
	Curry Wu/Project Engineer	
	vius cui	
	Vico Cui/Reviewer	



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# **2 Evaluation Summary**

Item Standard		Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	Pass

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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#### **General Information** 4

### 4.1 Details of E.U.T.

Power supply: DC 5V supply by PCB board

**BLE** 

Operation Frequency: 2402MHz to 2480MHz

Modulation Type: **GFSK** Number of Channels: 40 Channel Spacing: 2MHz

Antenna Type: PCB Antenna

Antenna Gain: 1.5dBi

2.4GHz WiFi

802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to Operation Frequency:

2452MHz

802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, Modulation Type:

16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11;802.11n(HT40):7

Channel Spacing: 5MHz

Antenna Type: PCB Antenna

Antenna Gain: 1.5dBi

5GHz WiFi

(20MHz):

Operation Frequency U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-

5700MHz; U-NII-3: 5745-5825MHz

Operation Frequency U-NII-1: 5190-5230MHz: U-NII-2A: 5270-5310MHz: U-NII-2C: 5510-

(40MHz):

5670MHz: U-NII-3: 5755-5795MHz

802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, Modulation Type:

QPSK, 16QAM, 64QAM)

**Channel Spacing:** 802.11a/n(HT20): 20MHz; 802.11n(HT40): 40MHz

DFS Function: Slave without Radar detection

TPC Function: Without TPC function

Antenna Type: PCB Antenna

Antenna Gain: 1.5dBi

### 4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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### 4.3 Facility

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

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

#### • SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

### FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

#### • ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

### VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

### • CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.4 Deviation from Standards

None

#### 4.5 Abnormalities from Standard Conditions

None



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# 5 Technical Requirements Specification

### 5.1 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions,

by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 5.2 RF Exposure Evaluation

#### 5.2.1 Limit & Test Method

According to FCC Part1.1310: 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 part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)			Power density (mW/cm²)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposures								
0.3-3.0 3.0-30 30-300 300-1500 1500-100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6				
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure					
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30				

F= Frequency in MHz

Friis Formula

Friis transmission formula:  $P_d = (P_{out}*G)/(4*P_i*R^2)$ 

Where

 $P_d$  = power density in mW/cm<sup>2</sup>

P<sub>out</sub> = output power to antenna in mW

G = gain of antenna in linear scale

 $P_i = 3.1416$ 

R = distance between observation point and center of the radiator in cm

P<sub>d</sub> id the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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#### 5.2.2 Conclusion

Normal use condition for

Distance between antenna

> 20cm declared by applicant

and body:

Antenna Gain: 1.5 dBi

#### For Bluetooth BLE

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2402	1.413	0.90	1.230	0.00035	1	Complies
2440	1.413	0.83	1.211	0.00034	1	Complies
2480	1.413	0.73	1.183	0.00033	1	Complies

#### For 2.4 GHz Wi-Fi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
802.11G						
2412	1.413	17.00	50.119	0.01408	1	Complies
2437	1.413	16.98	49.888	0.01402	1	Complies
2462	1.413	16.02	39.994	0.01124	1	Complies

#### For 5 GHz Wi-Fi

Frequency (MHz)	Antenna Gain (Numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
802.11n(HT2	20) I I NII 1	(ubiii)			(IIIVV/CIII-)	
002.1111(1112	(U) U-INII- I					
5180	1.413	7.34	5.420	0.00152	1	Complies
5200	1.413	6.42	4.385	0.00123	1	Complies
5240	1.413	6.51	4.477	0.00126	1	Complies

The Bluetooth and Wi-Fi can be transmitted together, the result is

0.00035/1 + 0.01408/1 + 0.00152/1 = 0.01595 < 1.0

So SAR report is not required.

Note: Refer to report No. GZCR220600084901 & GZCR220600084902 & GZCR220600084903 for EUT test Max Conducted Peak Output Power value.



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# **EUT Constructional Details (EUT Photos)**

Refer to External and Internal Photos for GZCR2206000849HS

- End of the Report -



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