

Report No.: GZCR220100001206

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FCC ID: APIJBLL75MS2

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2201000012AT

Applicant: Harman International Industries, Incorporated

Address of Applicant: 8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES

Manufacturer: Harman International Industries, Incorporated

Address of Manufacturer: 8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES

Factory: Guoguang Electric Co., Ltd.

Address of Factory: No.8 Jinghu Road, Xinya Street, Huadu Reg, Guangzhou, China

Equipment Under Test (EUT):

EUT Name: WIRELESS SPEAKER

Model No.: L75ms Trade Mark: JBL

Standard(s): 47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2022-01-06

Date of Evaluation: 2022-03-02 to 2022-05-07

Date of Issue: 2022-05-09

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager



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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



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Revision Record						
Version Report No. Date Remark						
01	GZCR220100001206	2022-05-09	Original			

Authorized for issue by:		
	Cof Vlu	
	Curry Wu/Project Engineer	-
	Riday Lin	
	100	
	Ricky Liu/Reviewer	



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2 Evaluation Summary

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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4 **General Information**

4.1 Details of E.U.T.

Power supply: AC 100-240V 50/60Hz

DC 3V for remote controller

About 1.2m x 2 wires unscreened AC mains cable Cable(s):

For Bluetooth BLE

2402MHz to 2480MHz Operation Frequency:

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

Antenna Type: Integral antenna

Antenna Gain: 5dBi

For Bluetooth Classic

Operation Frequency: 2402MHz to 2480MHz GFSK, pi/4DQPSK, 8DPSK Modulation Type:

Number of Channels: 79 Channel Spacing: 1MHz

Spectrum Spread

Frequency Hopping Spread Spectrum(FHSS) Technology:

Antenna Type: Integral antenna

Antenna Gain: 5dBi

For 2.4 GHz Wi-Fi

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: Integral antenna

ANT1:5dBi

Antenna Gain: ANT2:5dBi

Two antennas can simultaneous transmission.



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For 5 GHz Wi-Fi

Rev 1 0

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

5700MHz; U-NII-3: 5745-5825MHz (20MHz):

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

(40MHz): 5670MHz; U-NII-3: 5755-5795MHz

Operation Frequency U-NII-1: 5210MHz: U-NII-2A: 5290MHz: U-NII-2C: 5530-5610MHz: U-NII-3:

(80MHz): 5775MHz

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

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

64QAM, 256QAM)

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

802.11ac(HT80): 80MHz

DFS Function: Slave without Radar detection

Without TPC function TPC Function: Antenna Type: Integral Antenna

ANT1:7dBi

Antenna Gain: ANT2:7dBi

Two antennas can simultaneous transmission.



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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.

4.3 Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

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.



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4.4 Deviation from Standards

4.5 Abnormalities from Standard Conditions



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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)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposu	res	
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 1	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/cm²

P_{out} = 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_d id the limit of MPE, 1 mW/cm². 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 and body: 20cm declared by applicant

For Bluetooth BLE Antenna Gain: 5dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	•	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2402	3.162	3.51	2.244	0.00141	1	Complies
2440	3.162	4.49	2.812	0.00177	1	Complies
2480	3.162	4.04	2.535	0.00159	1	Complies

For Bluetooth Classic Antenna Gain: 5dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	•	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
2402	3.162	4.18	2.618	0.00165	1	Complies
2441	3.162	3.91	2.460	0.00155	1	Complies
2480	3.162	4.68	2.938	0.00185	1	Complies

For 2.4 GHz Wi-Fi

Antenna Gain1/2: 5dBi, Directional gain= 2+10log (5) dBi=8.01 dBi

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	
11N20 MIMC	11N20 MIMO						
2412	6.324	16.2	41.687	0.05245	1	Complies	
2437	6.324	16.5	44.668	0.05620	1	Complies	
2462	6.324	15.1	32.359	0.04071	1	Complies	



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For 5 GHz Wi-Fi

Antenna Gain1/2: 7dBi, Directional gain= 2+10log (7) dBi=10.01 dBi

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
11 N20 MIM	0					
5240	10.023	7.50	5.623	0.01121	1	Complies
5260	10.023	7.70	5.888	0.01174	1	Complies
5700	10.023	6.30	4.266	0.00851	1	Complies
5745	10.023	6.10	4.074	0.00812	1	Complies
11 AC20 MIN	MO					
5240	10.023	7.40	5.495	0.01096	1	Complies
5280	10.023	8.00	6.310	0.01258	1	Complies
5580	10.023	6.10	4.074	0.00812	1	Complies
5745	10.023	5.80	3.802	0.00758	1	Complies

The Bluetooth and Wi-Fi can be transmitted together, the result is 0.00177/1 + 0.00185/1 + 0.05620/1 + 0.01258/1 = 0.07240 < 1.0 So SAR report is not required.

Note: Refer to report No. GZCR220100001202, GZCR220100001203, GZCR220100001204, GZCR220100001205 for EUT test Max Conducted Peak Output Power value.



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6 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2201000012AT

- End of the Report -



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