

Report No.: GZCR210902110406

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RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2109021104AT

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 1.1307

KDB447498D01 General RF Exposure Guidance v06

 Date of Receipt:
 2021-09-15

 Date of Evaluation:
 2021-11-08

 Date of Issue:
 2021-11-11

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						
Chapter	Date Modifier		Remark			
	2021-11-11		Original			
	Chapter	Chapter Date	Chapter Date Modifier			

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



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Evaluation Summary 2

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

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

For BLE

Operation Frequency: 2402MHz to 2480MHz

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

Antenna Gain: 5 dBi declared by applicant

For BT classic

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

Channel Spacing: 1MHz Number of Channels: 79

Antenna Gain: 5 dBi declared by applicant

For 2.4GHz WiFi

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2472MHz

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

16QAM, QPSK, BPSK)

Channel Spacing: 5MHz

Number of Channels: 802.11b/g/n(HT20): 13

Antenna Gain:

Antenna 1:5 dBi declared by applicant
Antenna 2:5 dBi declared by applicant





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For 5GHz WiFi

Operation Frequency	Band	Mode	Frequency Range(MHz)	Number of channels
	Band 1	802.11a/n(HT20)/ac(HT20)	5180-5240	4
		802.11n(HT40)/ac(HT40)	5190-5230	2
		802.11ac(HT80)	5210	1
	Band 2	802.11a/n(HT20)/ac(HT20)	5260-5320	4
		802.11n(HT40)/ac(HT40)	5270-5310	2
		802.11ac(HT80)	5290	1
	Band 3	802.11a/n(HT20)/ac(HT20)	5500-5700	11
		802.11n(HT40)/ac(HT40)	5510-5670	5
		802.11ac(HT80)	5530-5610	2
	Band 4	802.11a/n(HT20)/ac(HT20)	5745-5825	5
		802.11n(HT40)/ac(HT40)	5755-5795	2
		802.11ac(HT80)	5775	1
Modulation Type:	802.11a: OFDM	(64QAM, 16QAM, QPSK, BPSK)		
	802.11n: OFDM	(BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac: OFDM	I (BPSK, QPSK, 16QAM, 64QAM, 250	6QAM)	
Channel Spacing:	802.11a/n(HT20))/ac(HT20): 20MHz		
	802.11n(HT40)/a	ac(HT40): 40MHz		
	802.11ac(HT80)	: 80MHz		
DFS Function	Slave without Radar detection			
Antenna Type	Integral antenna			
Antenna Gain	Antenna 1:7dBi Antenna 2:7dBi			
	Two antennas ca	an simultaneous transmission.		

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:

• 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.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 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)

Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposure							
614	1.63	*100	6				
1842/f	4.89/f	*900/f ²	6				
61.4	0.163	1.0	6				
		f/300	6				
		5	6				
(B) Limits for General Population/Uncontrolled Exposure							
614	1.63	*100	30				
824/f	2.19/f	*180/f ²	30				
27.5	0.073	0.2	30				
		f/1500	30				
		1.0	30				
	strength (V/m) (A) Limits for Occ 614 1842/f 61.4 B) Limits for General	strength (V/m) strength (A/m) (A) Limits for Occupational/Control 614 1.63 1842/f 4.89/f 61.4 0.163 B) Limits for General Population/Uncor 614 1.63 824/f 2.19/f	strength (V/m) strength (A/m) Power density (mW/cm²) (A) Limits for Occupational/Controlled Exposure 614 1.63 *100 1842/f 4.89/f *900/f² 61.4 0.163 1.0 67/300 5 B) Limits for General Population/Uncontrolled Exposure 614 1.63 *100 824/f 2.19/f *180/f² 27.5 0.073 0.2 f/1500				

f = frequency in MHz

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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^{* =} Plane-wave equivalent power density



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5.1.2 Conclusion

For 2.4GHz band:

Antenna1 Gain: 5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.162 in linear scale.

Antenna2 Gain: 5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.162 in linear scale.

BLE:

Channel	Frequency	Max Conducted Output Power Power Density		Limit	Result	
	(MHz)	Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm²)		
Middle	2440	3.97	2.495	0.00157	1.0	PASS

Classic

Channel	Frequency (MHz)	Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
	,	Power (dBm)	(mW)	(mW/cm²)		
Middle	2441	1.82	1.521	0.00096	1.0	PASS

2.4G WiFi

	Channel	Frequency	Max Conducted	Max Conducted		Limit	Result
		(MHz)	Peak Output	to Antenna	at R = 20 cm		
			Power (dBm)	(mW)	(mW/cm²)		
ĺ	Middle	2437	19.55	90.157	0.05672	1.0	PASS



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For 5GHz band:

Antenna1 Gain: 7dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 5.012 in linear scale.

Antenna2 Gain: 7dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 5.012 in linear scale.

Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
	: 0 :: 0: (a.z.:.)	(,	(,		
5260	14.20	26.303	0.02623	1.0	PASS

Exposure conditions for simultaneous transmission operations

Simultaneous transmission MPE test is not required, because the Max. sum of the MPE ratios for all wireless function is 0.00157/1+0.00096/1+0.05672/1+0.02623/1=0.08548 < 1.0.





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6 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2109021104AT

- End of the Report -



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