

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 1 of 10 FCC ID: APIHKVIRTUO

RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2306001904AT

Applicant: Harman International Industries, Inc.

Address of Applicant: 8500 Balboa Boulevard, Northridge, California, 91329, United States

Manufacturer: Harman International Industries, Inc.

8500 Balboa Boulevard, Northridge, California, 91329, United States Address of Manufacturer:

Guangzhou Panyu Juda Car Audio Equipment Co., Ltd. Factory:

NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District, Address of Factory:

Guangzhou City, Guangdong Province, China

Equipment Under Test (EUT):

EUT Name: Smart Speaker

Model No.: **VIRTUO**

Trade Mark: harman/kardon 47 CFR Part 1.1310 Standard(s):

KDB447498D01 General RF Exposure Guidance v06

2023-06-16 **Date of Receipt:**

2023-09-11 to 2023-09-12 **Date of Evaluation:**

2023-09-13 Date of Issue:

Evaluation Result: Pass*

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

This report SZCR230600190407R1 supersedes the previous report SZCR230600190407, issued on 2023-06-25 which is hereby deemed null and void.

Keny Xu

EMC Laboratory Manager



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



SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 2 of 10

	Revision Record								
Version	Chapter	Date	Modifier	Remark					
01		2023-06-25		Original					
R1		2023-09-13		Amendment report: increased the RF power of Zigbee					

Authorized for issue by:			
	Bonson Wong		
	Benson Wang/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer		



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 3 of 10

Evaluation Summary 2

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.

Remark for report SZCR230600190407R1

This report SZCR230600190407R1 superseded the previous report SZCR230600190407, increased the RF power of Zigbee as per the Applicant request. The new evaluation data for Zigbee and original evaluation data for BT & Wi-Fi were shown in this report.



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 4 of 10

3 Contents

		Pi	age
1	Cove	er Page	1
2	Eval	uation Summary	3
3	Cont	tents	4
4	Gen	eral Informationeral	5
	4.1	Details of E.U.T.	5
	4.2	Evaluating Location	
	4.3	Facility	
	4.4	Deviation from Standards	
	4.5	Abnormalities from Standard Conditions	
5	Tech	nnical Requirements Specification	8
	5.1	General Description of Applied Standards	ع
	5.2	RF Exposure Evaluation	
	-	Limit & Test Method	
		2 Conclusion	
6	EUT	Constructional Details (EUT Photos)	11
U	EUI	Constructional Details (Lot Friotos)	! !



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 5 of 10

General Information

4.1 Details of E.U.T.

Power supply: AC 100-240 V, 50/60 Hz, 45 W

Cable(s): AC mains ports with unshielded cables (2m)

> Aux in ports LAN ports Type C ports

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: **QSG V 5.3** Modulation Type: **GFSK** Number of Channels: 40 Channel Spacing: 2MHz

Antenna Type: Integral Antenna

Antenna Gain: 1.86 dBi

Antenna Number:

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.2 Dual mode

Modulation Type: GFSK, pi/4DQPSK, 8DPSK

Number of Channels: 79 Channel Spacing: 1MHz

Spectrum Spread

Technology:

Frequency Hopping Spread Spectrum(FHSS)

Antenna Type: Integral Antenna

Antenna Gain: 1.86 dBi

Antenna Number:

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

802.11n(HT40): 2422MHz to 2452MHz

802.11b: DSSS (CCK, DQPSK, DBPSK); Modulation Type:

802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

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

Channel Spacing: 5MHz

Antenna Type: Integral Antenna

Antenna Gain: 1.37 dBi for antenna 0, 1.63 dBi for antenna 1 Remark: Two antennas can simultaneous transmission

Antenna Number:

U-NII-1: 5180-5240MHz (4 Channels);

Operation Frequency U-NII-2A: 5260-5320MHz (4 Channels); /Number of channels

U-NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5 Channels)

U-NII-1: 5190-5230MHz (2 Channels); Operation Frequency /Number of channels U-NII-2A: 5270-5310MHz (2 Channels);

(40MHz): U-NII-2C: 5510-5670MHz (5 Channels);



(20MHz):

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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 6 of 10

U-NII-3: 5755-5795MHz (2 Channels)

Operation Frequency/ Number of channels

Number of channels (80MHz):

Modulation Type:

U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels);

U-NII-2C: 5530-5610MHz (2 Channels); U-NII-3: 5775MHz (1 Channel)

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

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

802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM)

802.11a/n(HT20)/ac(HT20)/ax(HEW20): 20MHz;

Channel Spacing: 802.11n(HT40)/ac(HT40)/ax(HEW40): 40MHz;

802.11ac(HT80)/ax(HEW80): 80MHz

DFS Function: Slave without Radar detection

TPC Function: Without TPC function
Antenna Type: Integral Antenna

Antenna Gain: 2.85 dBi for antenna 0, 2.92 dBi for antenna 1 Remark: Two antennas can simultaneous transmission

Antenna Number: 2

Operation Frequency: 2405MHz to 2480MHz

Modulation Type: O-QPSK

Number of Channels: 16 Channel Spacing: 5MHz

Antenna Type: Integral Antenna

Antenna Gain: 1.96 dBi

Antenna Number: 1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

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No tests were sub-contracted.



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 7 of 10

4.3 Facility

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 8 of 10

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 environmen 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) 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 1	for General Populati	on/Uncontrolled Exp	oosure						
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	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 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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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 9 of 10

5.2.2 Conclusion

Normal use condition for Distance between antenna and body: 20cm declared by applicant

1.86 dBi for BT, 1.96 dBi for Zigbee, 4.64 dBi MIMO for 2.4 GHz Wi-Fi, 5.89 dBi MIMO Antenna Gain:

For Bluetooth BLE

Frequen (MHz)	cy Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2402	1.535	6.68	4.656	0.00142	1	Complies

For Bluetooth Classic

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 ²)	Test Result
2402	1.535	7.93	6.209	0.00190	1	Complies

For Ziabee

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 ²)	Test Result
2480	1.570	19.19	82.985	0.02593	1	Complies

For 2.4 GHz Wi-Fi

Frequenc (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2437	2.911	29.67	926.830	0.53669	1	Complies

For 5GHz 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 ²)	Test Result
5230	3.882	16.83	48.195	0.03722	1	Complies

The Bluetooth and Wi-Fi can be transmitted together, the result is 0.00142/1 + 0.00190/1 + 0.02593/1 + 0.53669/1 + 0.03722/1 = 0.60316 < 1.0So SAR report is not required.

Note: Refer to report No. SZCR230600190402 to SZCR230600190405 and SZCR230600190406R1, for EUT test Max Conducted Peak Output Power value.



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190407R1

Page: 10 of 10

EUT Constructional Details (EUT Photos) 6

Refer to Appendix - External and Internal Photos for SZCR2306001904AT

- End of the Report -



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