

Report No.: GZEM200901512903

1 of 9

FCC ID: APIBASSPROGO

RF Evaluation REPORT

Application No.: GZEM2009015129CR

Applicant: Harman International Industries, Incorporated

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

Manufacturer: Harman International Industries, Incorporated

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

Factory: 1. Guoguang Electric Co., Ltd.

2. GUOGUANG ELECTRIC (VIET NAM) COMPANY LIMITED

Address of Factory: 1. No.8 Jinghu Road, Xinya Street, Huadu Reg, Guangzhou, China

2. Lot No.12 in Dien Nam-Dien Ngoc Industrial Zone, Dien Ban Town, Quang

Nam Province, Vietnam

Equipment Under Test (EUT): FCC ID: APIBASSPROGO

IN-VEHICLE BLUETOOTH SPEAKER **EUT Name:**

Model No.: **BASSPRO GO**

Trade Mark: JBL

47 CFR Part 1.1307, Part 2.1093, KDB 447498 Standard(s):

Date of Receipt: 2020-09-16

Date of Test: 2020-09-25 to 2020-09-28

Date of Issue: 2020-10-15

Test Result: Pass*

Kobe Jian **EMC Laboratory Manager**



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



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Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2020-10-15		Original			

Authorized for issue by:			
Tested By	Cumy Wu	2020-09-25 to 2020-09-28	
	Curry_Wu /Project Engineer	Date	
Checked By	Riday Liu	2020-10-15	
	Ricky Liu /Reviewer	Date	



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2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass		



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4 General Information

4.1 Details of E.U.T.

Power Supply: DC 10.8V rechargeable battery as below:

Model: HFR-SC42300C09H210 Rated: DC 10.8 V, 2900 mAh

Antenna Gain: 2.28dBi

Antenna Type: Integral Antenna

Sample No.: A1

Test software: Bluetest 3
Power setting default

For Classic

Channel Spacing: 1MHz

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

Number of Channels: 79

Operation Frequency: 2402MHz to 2480MHz

Spectrum Spread

Frequency Hopping Spread Spectrum(FHSS)

Technology:

For BLE

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

Operation Frequency: 2402MHz to 2480MHz

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Test 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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4.4 Test Facility

The test 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 C-Tick mark as a result of our NVLAP accreditation.

● 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 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

◆ 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, Jul 13, 2017.

●Industry Canada (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-10449 and T-11179)

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is > 50 mm, a distance of 50 mm is applied to determine SAR test exclusion

5.1.2 Conclusion

5.1.2.1 Classic

The Max Conducted Peak Output Power is 8.03 dBm on the lowest channel 2.441 GHz

8.03 dBm logarithmic terms convert to numeric result is nearly 6.35 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/

(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$

General RF Exposure = $(6.35 \text{ mW} / 50 \text{ mm}) \text{ x} \sqrt{2.441 \text{ GHz}} = 0.20$ (1)

SAR requirement:

S = 3.0 (2)

(1) < (2)

So the SAR report is not required.

5.1.2.2 BLE

The Max Conducted Peak Output Power is 8.21 dBm on the lowest channel

2.442 GHz

8.21 dBm logarithmic terms convert to numeric result is nearly 6.62 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$

General RF Exposure = $(6.62 \text{ mW} / 50 \text{ mm}) \times \sqrt{2.442 \text{ GHz}} = 0.21$ (1)

SAR requirement:

S = 3.0 (2)

(1) < (2)

So the SAR report is not required.

The classic mode and BLE mode can not transmit simultaneously.



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6 Photographs

6.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM2009015129CR

-- End of Report--



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