

RF EXPOSURE REPORT

FOR

Applicant	:	Harman International Industries, Incorporated
Address	:	8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES
Equipment under Test	:	Portable Bluetooth Speaker
Model No.	:	FLIP4A
Trade Mark	:	JBL
FCC ID	:	APIJBLFLIP4A
IC	:	6132A-JBLFLIP4A
Manufacturer	:	Harman International Industries, Incorporated
Address	:	8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,
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REPORT

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TEST REPORT DECLARE

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-RQ17080205-1E11		
Date of Receipt:	Sep. 14, 2017	Date of Test:	Sep. 14, 2017 ~ Sep. 30, 2017

Prepared By:

Damon Hu

Damon Hu/Engineer



Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

1. General information

1.1. Description of Equipment

EUT* Name	: Portable Bluetooth Speaker
Model Number	: FLIP4A
EUT function description	: Please reference user manual of this device
Power supply	: DC 5V from external AC ADAPTER DC 3.7V built-in battery
Radio Specification	: Bluetooth V4.2 (BDR/EDR/BLE)
Operation frequency	: 2402MHz -2480MHz
Modulation	: GFSK, $\pi/4$ QPSK, 8-DPSK
Data rate	: 1Mbps, 2Mbps, 3Mbps
Antenna Type	: Integrated antenna, maximum PK gain: 3.09dBi
Sample Type	: Series production

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808 Tel: +86-0769-22891499 <http://www.dgddt.com>

2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v05

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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

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

The result is rounded to one decimal place for comparison

Worse case is as below: [2.7dBm (1.9mW) output power]

$(1.9/5) \cdot \left[\sqrt{2.48(\text{GHz})} \right] = 0.587 < 3.0$ for 1-g SAR

Note: The applicant declared the maximum output power is 2.7 dBm.

Then SAR evaluation is not required

END OF REPORT