

REPORT

# **RF EXPOSURE REPORT**

## FOR

Applicant	:	Harman International Industries, Inc.	
Address	• •	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	
Equipment under Test	•••	Gaming Wireless Headset	
Model No. ONG D	Ц.	QUANTUM800	
Trade Mark	•••	JBL	
FCC ID	:	APIJBLQ800	
IC		6132A-JBLQ800	
Manufacturer	•	Harman International Industries, Inc.	
Address		8500 Balboa Boulevard, 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, Guangdong Province, China, 523808
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# **TEST REPORT DECLARE**

Applicant	:	Harman International Industries, Inc.	
Address	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	
Equipment under Test	:	Gaming Wireless Headset	
Model No.	:	QUANTUM800	
Trade mark	:	JBL	
Manufacturer	:	Harman International Industries, Inc.	
Address	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	

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-R19092705-1E17		
Date of Receipt:	Oct. 10, 2019	Date of Test:	Oct. 10, 2019 ~ Nov. 01, 2019

Prepared By:

, am L Sam Li/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.

# **Revision history**

Rev.	Revisions	Issue Date	Revised By
	Initial issue	Nov. 01, 2019	

### 1. General information

### **1.1. Description of Equipment**

EUT* Name	:	Gaming Wireless Headset		
Model Number	:	QUANTUM800		
EUT function description	:	Please reference user manual of this device		
Power supply	:	DC 5V from external AC Adapter DC 3.7V Polymer Li-ion built-in battery		
Radio Specification	:	Bluetooth V5.0		
Operation frequency	:	2402MHz-2480MHz		
Modulation	:	GFSK, π/4-DQPSK, 8DPSK		
Data rate	:	1 Mbps, 2 Mbps, 3 Mbps		
Antenna Type	:	Dedicated FPC antenna, maximum PK gain: 3.34 dBi		
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: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com

### 2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  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  $\le 7.5$  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 calculation

The result is rounded to one decimal place for comparison

GFSK (Average)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	3	3	2.5			
Tolerance ±(dB)	1	1	1			
π/4DQPSK (Average)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	3	3	2.5			
Tolerance ±(dB)	1	1	1			

#### Manufacturing Tolerance

8DPSK (Average)						
Channel Channel 0 Channel 39 Channel 78						
Target (dBm)	3	3	2.5			
Tolerance ±(dB)	1	1	1			

BLE (Average)						
Channel Channel 0 Channel 39 Channel						
Target (dBm)	0	0	-0.5			
Tolerance ±(dB)	1	1	1			

#### **Estimation Result**

Worse case is as below: [2402MHz, 4 dBm, 2.31 mW) output power]

(2.31/5) ·[√2.402(GHz)] =0.716<3.0 for 1-g SAR

Then SAR evaluation is not required

### **END OF REPORT**