



RF EXPOSURE REPORT

Applicant	:	Harman International Industries, Inc.		
Address of Applicant	• •	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES		
Manufacturer	• •	Harman International Industries, Inc.		
Address of Manufacturer	•	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES		
Equipment under Test	••	JBL JAM 5000N Head Unit		
Model No.	/··	JBLJAM5000N		
FCC ID	•••	: APIMARINELJ		
Test Standard(s)	7	KDB447498 D01 General RF Exposure Guidance v06		
Report No.	••	DDT-RE24042005-2E02		
Issue Date	:	2024/06/04		
Issue By	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China 523808			



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Test Report Declare

Applicant	:	Harman International Industries, Inc.		
Address of Applicant	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES		
Equipment under Test	:	IBL JAM 5000N Head Unit		
Model No.	:	JBLJAM5000N		
Manufacturer	R	Harman International Industries, Inc.		
I Address of Manifacturer I i		8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES		

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

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

Report No.:	DDT-RE24042005-2E02			
Date of Receipt:	2024/04/25	Date of Test:	2024/04/25~2024/06/04	
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- Pi	repared By:		Approved By:	

Zigin Chen/Engineer

Damon Hu

Damon Hu

Damon Hu/EMC Manager

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

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue	9 2024/06/04	0
	X X	Y X	1

Report No.:DDT-RE24042005-2E02

1. General Test Information

1.1. Description of EUT

EUT Name	:	JBL JAM 5000N Head Unit	
Model Number	:	JBLJAM5000N	
Difference of model number	:	/	
EUT Function Description	:	Please reference user manual of this device	<i>D</i> 7
Power Supply	:	DC 12V/15A	
Hardware Version	ı.	N2K PCB V0.6, RADIO PCB V1.0, FRONT PCB V0.6, POWER PCB 0.6	
Software Version	:	V240412	nV/

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

"⊠" means to be chosen or applicable; "□" means don't to be chosen or not applicable; This note applies to entire report.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
DC cable	Harman	N/A	Length: 0.25m

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

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 ≤ 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 calculation

The result is rounded to one decimal place for comparison

2.2. Assess result

Manufacturing Tolerance:

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance ±(dB)
		2402	5	1
GFSK (Peak)	Ant1	2441	5	1
		2480	3.5	1
		2402	5	1
π/4DQPSK (Peak)	Ant1	2441	5	1
		2480	3.5	1

Estimtion Result:

Worse case is as below: [2441 MHz, 6 dBm, (3.98 mW) output power]

 $(3.98/5) \cdot [\sqrt{2.441}(GHz)] = 1.236 < 3.0 \text{ for } 1-g \text{ SAR}$

Then SAR evaluation is not required.

