



# **RF EXPOSURE REPORT**

Applicant	:	ION Audio LLC		
Address of Applicant	:	200 Scenic View Drive, Suite 201 Cumberland, RI 02864, U.S.A.		
Manufacturer	••	ION Audio LLC		
Address of Manufacturer	:	200 Scenic View Drive, Suite 201 Cumberland, RI 02864, U.S.A.		
Equipment under Test	:	FLOATING BLUETOOTH SPEAKER		
Model No.	<b>6.</b>	WAVE RIDER™ X, ISP181, WAVE********, ISP181******		
Project Code	•••	iSP181		
FCC ID		2AB3E-ISP181		
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06		
Report No.	•	DDT-RE24082314-1E03		
Issue Date	•••	2024/11/13		
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	:	ION Audio LLC
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Equipment under Test	:	FLOATING BLUETOOTH SPEAKER
Model No.	:	WAVE RIDER™ X, ISP181, WAVE********, ISP181*****
Manufacturer		ION Audio LLC
Address of Manufacturer	i	200 Scenic View Drive, Suite 201 Cumberland, RI 02864, U.S.A.

#### **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-RE24082314-1E03		
Date of Receipt:	2024/09/13	Date of Test:	2024/09/13~2024/11/13

Prepared By: Approved By:

Johnson Huang Damon Mu

Johnson Huang/Engineer 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	2024/11/13	@
	X Ar X Ar	*	

### 1. General Test Information

### 1.1. Description of EUT

EUT Name	:	FLOATING BLUETOOTH SPEAKER		
Model Number	: WAVE RIDER™ X, ISP181, WAVE********, ISP181			
Difference of model number	("*" can be "0-9", "a-z", "A-Z", "blank", "-", "+" or any character symbol, alphanumeric for marketing purpose)  All models are identical except the appearance color and model mumber, therefore the test performed on the model WAVE RIX.			
EUT Function Description : F		Please reference user manual of this device		
Power Supply		Powered by Type-C port 5V or DC 7.40V Polymer Li-ion built-in battery		

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
		1	

#### 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  $\le 7.5$  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

#### 2.2. Assess result

#### **Manufacturing Tolerance:**

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance ±(dB)
		2402	-1.67	1 //
GFSK (Peak)	Ant1	2441	-1.57	1
		2480	-0.93	1
		2402	-0.92	1
π/4DQPSK (Peak)	Ant1	2441	-1.05	1
		2480	-0.54	1
		2402	-0.31	1
8DPSK	Ant1	2441	-0.49	1
		2480	0.07	1

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance ±(dB)
100		2402	-1.46	1
BLE 1M	Ant1	2440	-1.52	1
		2480	-1.04	1
		2404	-1.54	1
BLE 2M	Ant1	2440	-1.64	1
®	®	2478	<u>®</u> -1.17	1 ®

#### **Estimtion Result:**

 $(1.28/5) \cdot [\sqrt{2.402}(GHz)] = 0.40 < 3.0 \text{ for } 1-g \text{ SAR}$ 

Then SAR evaluation is not required.

