

RF EXPOSURE REPORT

FOR

Applicant	:	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.
Equipment under Test	:	Waterproof Floating Boombox with LED illumination
Model No.	:	WAVE RIDER
Trade Mark	:	ION
Project Code	:	iSP106
FCC ID	:	2AB3E-ISP106
IC	:	10541A-ISP106
Manufacturer	:	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.

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

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan
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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-R18102608-1E3		
Date of Receipt:	Nov. 30, 2018	Date of Test:	Nov. 30, 2018 ~ Dec. 20, 2018

Prepared By:

Sam Li
Sam Li/Engineer

Approved By:


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 Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Dec. 28, 2018	

1. General information

1.1. Description of Equipment

EUT* Name	:	Waterproof Floating Boombox with LED illumination
Model Number	:	WAVE RIDER
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 9V from external AC Adapter
Radio Specification	:	Bluetooth V5.0
Operation frequency	:	2402MHz-2480MHz
Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Data rate	:	1Mbps, 2Mbps, 3Mbps
Antenna Type	:	Integral PCB antenna, maximum PK gain: 0dBi
Sample Type	:	Series production

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

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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 ≤ 50 mm are determined by:

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

$f(\text{GHz})$ 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: [2402MHz, -0.75dBm 0.84mW) output power]

$(0.84/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.26 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT