

**Report No.:** DDT-R22021418-2E03

■Issued Date: Jun. 22, 2022

## RF EXPOSURE REPORT

#### **FOR**

Applicant	:	ION Audio, LLC	
Address	••	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.	
Equipment under Test	••	WATER-RESISTANT BLUETOOTH®-ENABLED STEREO BOOMBOX WITH LIGHTS	
Model No.	••	UBER™ BOOM ULTRA	
Project Code	•	iSP159	
Trade Mark			
FCC ID	••	2AB3E-ISP159	
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 City, Guangdong Province, China, 523808

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



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## **Test Report Declare**

Applicant	:	ION Audio, LLC		
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.		
Equipment under Test	:	WATER-RESISTANT BLUETOOTH®-ENABLED STEREO BOOMBOX WITH LIGHTS		
Model No.	:	UBER™ BOOM ULTRA		
Trade mark				
Manufacturer		ION Audio, LLC		
Address	<i>y</i> .	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.		

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-R22021418-2E03		
Date of Receipt:	May 16, 2022	Date of Test:	May 16, 2022 ~ Jun. 21, 2022

Prepared By:

Sam Li/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 Dongguan Dongdian Testing Service Co., Ltd.

# **Revision History**

Rev.	Revisions	Issue Date	Revised By
	Initial issue	Jun. 22, 2022	(6)
			7

#### 1. General Information

#### 1.1. Description of equipment

EUT* Name	:	WATER-RESISTANT BLUETOOTH®-ENABLED STEREO BOOMBOX WITH LIGHTS		
Model Number	:	UBER™ BOOM ULTRA		
EUT function description	:	Please reference user manual of this device		
Power Supply	:	DC 5V by Micro USB port DC 7.4V Polymer Li-ion built-in battery		
Radio Specification		Bluetooth V5.0		
Operation Frequency	:	2402 MHz – 2480 MHz		
Modulation	:	GFSK, π/4-DQPSK, 8DPSK		
Data rate	:	1 Mbps, 2 Mbps, 3 Mbps		
Antenna Gain	:	2 dBi		
Sample Type	:	Series production		
Sample Number	:	N/A		

Note: EUT is the abbreviation of equipment under test.

#### 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.

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, G-20118

## 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:

[(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

#### **BT Manufacturing Tolerance**

GFSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	3	<b>®</b> 0	-2				
Tolerance ±(dB)	1	1	1				
	π/4DQPSK (Peak)						
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	3	0	-2				
Tolerance ±(dB)	<sub>®</sub> 1	1	1 ®				
	8DPSK (Peak)						
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	3	0	-2				
Tolerance ±(dB)	1	1	1				

#### **BLE Manufacturing Tolerance**

GFSK (Peak)							
Channel	Channel 0	Channel 19	Channel 39				
Target (dBm)	2	0	-2				
Tolerance ±(dB)	1 8	1	<u>8</u> 1				

#### **Estimtion Result**

Worse case is as below: [2402 MHz, 4 dBm, 2.51 mW) output power]

 $(2.51/5) \cdot [\sqrt{2.402(GHz)}] = 0.78 < 3.0 \text{ for } 1-g \text{ SAR}$ 

Then SAR evaluation is not required

**END OF REPORT**