

Report No.: DDT-R21091611-2E03

■Issued Date: Jan. 14, 2022

RF EXPOSURE REPORT

FOR

Applicant		ION Audio, LLC	
Address	••	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.	
Equipment under Test	•••	SOLAR RECHARGEABLE OUTDOOR SPEAKER WITH MULTI-SYNC	
Model No.	• •	SOLAR SOUNDS	
Project Code	••	iSP75C	
Trade Mark	:		
FCC ID		2AB3E-ISP75C	
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



Table of Contents

	Test report declares	3
1.	General Information	!
1.1.	Description of equipment	
1.2.	Assess laboratory	{
2.	RF Exposure evaluation for FCC	

Test Report Declare

Applicant	:	ION Audio, LLC	
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.	
Equipment under Test	:	SOLAR RECHARGEABLE OUTDOOR SPEAKER WITH MULTI-SYNC	
Model No.	:	SOLAR SOUNDS	
Trade mark	:		
Manufacturer		ION Audio, LLC	
Address		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-R21091611-2E03		
Date of Receipt:	Dec. 17, 2021	Date of Test:	Dec. 17, 2021 ~ Jan. 13, 2022

Prepared By:

Sam Li/Engineer

Damon HUEMC Manager

Approved By.

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	Jan. 14, 2022	(0)
		OP	7

1. General Information

1.1. Description of equipment

EUT* Name	:	SOLAR RECHARGEABLE OUTDOOR SPEAKER WITH MULTI-SYNC		
Model Number	:	SOLAR SOUNDS		
EUT function description	:	Please reference user manual of this device		
Power Supply	:	DC 12V from external AC Adapter DC 7.4V Polymer Li-ion built-in battery		
Hardware Version	E	Main board: 1.5 Key board: 1.4		
Software Version	:	2.6		
Radio Specification	/:	Bluetooth V5.0		
Operation Frequency	:	2402MHz-2480MHz		
Modulation	:	GFSK, π/4-DQPSK, 8DPSK		
Data Rate	:	1 Mbps, 2 Mbps, 3 Mbps		
Antenna Gain	:	Maximum PK gain: 4.24dBi		
Sample Type	:	Series Production		
Serial 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 ≤ 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)	0	<u> </u>	-2					
Tolerance ±(dB)	1	1	1					
	π/4DQPSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78					
Target (dBm)	0	-1	-2					
Tolerance ±(dB)	® 1	1	1 ®					
	8DPSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78					
Target (dBm)	-1	-1	-2					
Tolerance ±(dB)	1	1	1					

BLE Manufacturing Tolerance

BLE_1M (Peak)							
Channel	Channel 0	Channel 19	Channel 39				
Target (dBm)	-3	-3	-4				
Tolerance ±(dB)	1 8	1	® 1				
BLE_2M (Peak)							
Channel	Channel 0	Channel 19	Channel 39				
Target (dBm)	-4	-4	-5				
Tolerance ±(dB)	1	1	1				

Estimtion Result

Worse case is as below: [2402 MHz, 1 dBm, 1.26 mW) output power]

 $(1.26/5) \cdot [\sqrt{2.402}(GHz)] = 0.39 < 3.0 \text{ for } 1\text{-g SAR}$

Then SAR evaluation is not required

END OF REPORT