

FCC 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	÷	Powered by Solar or Rechargeable Battery Bluetooth Weatherproof Speaker Delivering Powerful ION Sound	
Model No. iSP176****** ("*" can be "0-9", "a-z", "A-Z", "bl "+" or any character, symbol, alphanumeric for		SOL STONE™ LINK, iSP176, SOL STONE**********, iSP176****** ("*" can be "0-9", "a-z", "A-Z", "blank", "-", "+" or any character, symbol, alphanumeric for marketing purpose)	
FCC ID	:,	2AB3E-ISP176	
Test Standard(s)	1	KDB447498 D01 General RF Exposure Guidance v06	
Report No.	:	DDT-RE23092805-2E03	
Issue Date	:	2023/11/25	
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd.	
Address of Laboratory	•	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	:	Powered by Solar or Rechargeable Battery Bluetooth Weatherproof Speaker Delivering Powerful ION Sound	
Model No.	:	SOL STONE™ LINK, iSP176, SOL STONE************, iSP176****** ("*" can be "0-9", "a-z", "A-Z", "blank", "-", "+" or any character, symbol, alphanumeric for marketing purpose)	
Manufacturer		ION Audio LLC	
Address of Manufacturer		200 Scenic View Drive, Suite 201 Cumberland, RI 02864, U.S.A	

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Guangdong 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 Guangdong 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-RE23092805-2E03			
Date of Receipt:	2023/11/01	Date of Test:	2023/11/01-2023/11/09	

Prepared By:

Approved By:

Jacky Huang/Engineer

Damon Hu/EMC Manager

Vamon Mu

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.

TRF No.: RT-4-E-02-015 FCC RF Exposure Report MPE Ver.1.1

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue	2023/11/25	(8)
	*Or	A)r x	

1. General Information

1.1. Description of equipment

EUT Name	:	Powered by Solar or Rechargeable Battery Bluetooth Weatherproof Speaker Delivering Powerful ION Sound		
Model Number	:	SOL STONE™ LINK, iSP176, SOL STONE*************, iSP176****** ("*" can be "0-9", "a-z", "A-Z", "blank", "-", "+" or any character, symbol, alphanumeric for marketing purpose)		
Model Difference	:	All models are identical except the appearance and model number, therefore the test performed on the model iSP176.		
EUT Function Description	Ŀ	Please reference user manual of this device		
Power Supply		DC 5V by Type-C port DC 3.7V Polymer Li-ion built-in battery		
Radio Specification	:	Bluetooth V5.3 (BR/EDR/LE)		
Operation Frequency	:	Bluetooth (BR/EDR/LE): 2402 MHz-2480 MHz		
Modulation	:	Bluetooth BR/EDR: GFSK, π/4-DQPSK, 8DPSK Bluetooth LE: GFSK		
Sample Number	:	S23092805-04 for conductive, S23092805-01 and S23092805-03 for radiation and Power Line Conducted Emissions		

Note 1: EUT is the abbreviation of equipment under test.

Note 2: Simultaneously transmission condition: N/A

Note 3: Antenna information:

Antenna information		
Antenna Type	: FPC	
Antenna Gain (dBi)	: 1.73	

1.2. Assess laboratory

Guangdong Dongdian Testing Service Co., Ltd.

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

TRF No.: RT-4-E-02-015 FCC RF Exposure Report MPE Ver.1.1

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

Manufacturing Tolerance

BT

GFSK (Peak)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	4.68	4.37	4.21			
Tolerance ±(dB)	1.50	1.50	1.50			
π/4DQPSK (Peak)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	4.63	4.28	9 4.15			
Tolerance ±(dB)	1.50	1.50	1.50			
8DPSK (Peak)						
Channel	Channel	Channel	Channel			
Target (dBm)	4.63	4.30	4.18			
Tolerance ±(dB)	1.50	1.50	1.50			

BLE

GFSK_1M (Peak)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	4.60	4.38	4.15			
Tolerance ±(dB)	<u>\$ 1.50</u>	1.50	1.50			
GFSK_2M (Peak)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	4.52	4.31	4.10			
Tolerance ±(dB)	1.50	1.50	1.50			

Estimation Result

Worse case is as below: [2402 MHz, 6.18 dBm, (4.15 mW) output power]

 $(4.15/5) \cdot [\sqrt{2.402}(GHz)] = 1.29 < 3.0 \text{ for } 1-g \text{ SAR}$

Then SAR evaluation is not required.

END OF REPORT

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