

# RF Exposure Evaluation Report

Product Name : Bluetooth Speaker

Model No. : LWB0502A

FCC ID : 2ASEB-LWB0502A

Applicant : Laiwin International Trading Co.,Ltd

Address : No. 2, Aly. 8, Ln. 2, Sec. 1, Minsheng N.Rd.,Guishan Dist.,  
Taoyuan City 33391, Taiwan

Date of Receipt : Jul. 03, 2020

Date of Declaration : Dec. 14, 2020

Report No. : 2070177R-E3082100013

Report Version : V1.0



The test results relate only to the samples tested.

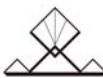
The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Issued Date: Dec. 14, 2020  
 Report No.: 2070177R-E3082100013



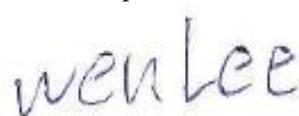
Product Name	Bluetooth Speaker	
Applicant	Laiwin International Trading Co.,Ltd	
Address	No. 2, Aly. 8, Ln. 2, Sec. 1, Minsheng N.Rd., Guishan Dist., Taoyuan City 33391, Taiwan	
Manufacturer	Yuan Deng Metals Industrial Co.,Ltd.	
Model No.	LWB0502A	
FCC ID.	2ASEB-LWB0502A	
Trade Name		
Applicable Standard	KDB 447498 D01 v06	<input type="checkbox"/> Minimum test separation distance $\geq$ 20 cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By



( Senior Adm. Specialist / Jinn Chen )

Tested By



( Supervisor / Wen Lee )

Approved By



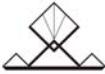
( Director / Vincent Lin )

## Revision History

<b>Report No.</b>	<b>Version</b>	<b>Description</b>	<b>Issued Date</b>
2070177R-E3082100013	V1.0	Initial issue of report.	2020-12-14

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Bluetooth Speaker
Trade Name	
Model No.	LWB0502A
FCC ID.	2ASEB-LWB0502A
Frequency Range	2402 – 2480MHz
Channel Number	79CH
Type of Modulation	FHSS: GFSK(1Mbps) / $\pi$ /4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	PCB Antenna
Antenna Gain	Refer to the table “Antenna List”

### 1.2. Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	FAE Electronics Shenzhen Co., Ltd.	LWB0502A	PCB Antenna	0dBi for 2.4 GHz

## 2. RF Exposure Evaluation

### 2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

### 2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)\*sqrt(f(GHz)) $\leq$ 3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

Operation frequency = 2450MHz and antenna separation distance = 5mm,  
Body SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum Peak tune up power Peak Gain: 0 dBi			SAR Test Exclusion Threshold (mW)	Calculated Threshold Value ( $\leq$ 3.0 SAR is not required)
	Tune up (dBm)	EIRP (dBm)	EIRP (mW)		
2402~2480	5	5	3.16	10	0.996

Note1: The SAR/MPE measurement is not necessary.

Note2: The conducted output power is refer to report No.: 2070177R-E3032110108 from the DEKRA.