

Report No.: DDT-RE23061523-2E02

■ Issued Date: Aug. 07, 2023

RF EXPOSURE REPORT

FOR

Applicant	:	DongGuan JinWenHua Digital Technology Co., Ltd.	
Address	:	No.1 Huada Road, Longbeiling Industry Zone, Tangxia Town, Dongguan City, China	
Equipment under Test	:	Portable Wireless Speakers	
Model No.	•	C27/Red-E Go, c27a, c27b, c27c, c27w, c27y, c27r, c27g	
Trade Mark	7	N/A	
FCC ID	••	2AFSG-C27	
Manufacturer	١.	DongGuan JinWenHua Digital Technology Co., Ltd.	
Address	•	No.1 Huada Road, Longbeiling Industry Zone, Tangxia Town, Dongguan City, China	

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	5
1.1.	Description of equipment	5
1.2.	Assess laboratory	5
2.	RF Exposure evaluation for FCC	· · · · · · · · · · · · · · · · · · ·

Test Report Declare

Applicant	:	DongGuan JinWenHua Digital Technology Co., Ltd.		
Address	:	No.1 Huada Road, Longbeiling Industry Zone, Tangxia Town, Dongguan City, China		
Equipment under Test	:	Portable Wireless Speakers		
Model No.	:	C27/Red-E Go, c27a, c27b, c27c, c27w, c27y, c27r, c27g		
Trade mark	:	N/A		
Manufacturer	4	DongGuan JinWenHua Digital Technology Co., Ltd.		
Address	No.1 Huada Road, Longbeiling Industry Zone, Tangxia Town, Dongguan City, China			

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-RE23061523-2E02		
Date of Receipt:	Jul. 03, 2023	Date of Test:	Jul. 03, 2023 ~ Aug. 07, 2023

Prepared By:

| Jacky Huang | Damon Hu
| Damon Hu
| 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	Aug. 07, 2023	8
	nD)' nD)'	n C	7

1. General Information

1.1. Description of equipment

EUT Name	:	Portable Wireless Speakers		
Model Number	:	: C27/Red-E Go, c27a, c27b, c27c, c27w, c27y, c27r, c27g		
Model Difference		All models are identical except the Bluetooth name and model number, therefore the test performed on the model C27/Red-E Go.		
EUT function description	:	Please reference user manual of this device		
Power Supply	1	DC 5V by Type-C port DC 3.7V Polymer Li-ion built-in battery		
Radio Specification		Bluetooth V5.3		
Operation Frequency	/ :	2402 MHz - 2480 MHz		
Modulation	:	GFSK, π/4-DQPSK		
Data Rate	:	1 Mbps, 2 Mbps		
Antenna	:	PCB antenna, maximum PK gain: -0.58 dBi		
Sample Number		S23061523-06 for conductive S23061523-07 for radiation		

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, R-20155, 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

Manufacturing Tolerance

BT

GFSK (Peak)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	-3.03	-2.64	-2.60			
Tolerance ±(dB)	olerance ±(dB) 1.50		1.50			
π/4DQPSK (Peak)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	-2.10	-1.70	-1.67			
Tolerance ±(dB)	1.50	1.50	1.50			

Estimtion Result

Worse case is as below: [2480 MHz, -0.17 dBm, (0.96 mW) output power]

 $(0.96/5) \cdot [\sqrt{2.480(GHz)}] = 0.30 < 3.0 \text{ for } 1-g \text{ SAR}$

Then SAR evaluation is not required.

END OF REPORT