



Product Name: Wireless Microphone	Report No: FCC022022-1560MPE
Product Model: WM200.WM200PLUS. WM200PRO.WM900. L1.L2.L3.L4.L5.L6.L7.L8.L9 Y1.Y2.Y3.Y4.Y5.Y6.Y7.Y8.Y9 X1.X2.X3.X4.X5.X6.X7.X8.X9	Security Classification: Open
Version: V1.0	Total Page: 6

TIRT Testing Report

Prepared By:	Checked By:	Approved By:	
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FCC RF EXPOSURE REPORT

FCC ID: 2A4RK-WM200

Equipment : Wireless Microphone
Trade Mark : FULAIM
Model Number : WM200.WM200PLUS. WM200PRO.WM900.
L1.L2.L3.L4.L5.L6.L7.L8.L9
Y1.Y2.Y3.Y4.Y5.Y6.Y7.Y8.Y9
X1.X2.X3.X4.X5.X6.X7.X8.X9
Model Differences : All the models are packaging configuration difference and appearance difference.
The main test model is WM200.
Product No. : 20220408004792
Applicant : Fuzhou Huiqixin Technology Co. , Ltd.
Address : Room 906,zone A,floor 9,yunzuo-3 building,no. 528 xihong road,gulou district, Fuzhou city, Fujian province, China
Manufacturer : Fuzhou Huiqixin Technology Co. , Ltd.
Address : Room 906,zone A,floor 9,yunzuo-3 building,no. 528 xihong road,gulou district, Fuzhou city, Fujian province, China
Date of Receipt : 2022.03.06
Date of Test : 2022.03.17 ~ 2022.04.07
Issued Date : 2022.04.11
Report Version : V1.0
Test Sample : Final Sample
Standard(s) : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

- The above equipment has been tested and found compliance with the requirement of the relative standards by TIRT Inc.
- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc., the test report shall not be reproduced except in full.

Lab: Beijing TIRT Technology Service Co.,Ltd Shenzhen Branch
Add: 101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street,
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TEL: +86-13911306535

History of this test report

Original Report Issue Date: 2022.05.07

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 GENERAL DESCRIPTION OF EUT

Items	Description
Equipment Name	Wireless Microphone
Power Supply	Input: 5V DC
	Rated current: 45mA
	Battery Model: 502525
	Battery Capacity: 300 mAh
	Rated voltage: 3.7V
Operating Temperature	-10~55℃
EUT Stage	<input type="radio"/> Product Unit <input checked="" type="radio"/> Final-Sample
Modulation Type	GFSK
Frequency Range	2400-2483 MHz
Data Rate	1 Mbps
Number of Operated Channel	40
Antenna Type	PCB
Antenna Gain	1.54 dBi

1.2 TEST LOCATION

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen Branch
Address:	101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District Shenzhen China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number	6049.01
Telephone:	+86 -13911306535

1.3 DEVIATION FROM STANDARDS

None

1.4 ABNORMALITIES FROM STANDARD CONDITIONS

None

2. RF Exposure Compliance Requirement

2.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 LIMITS

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ 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

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

2.3 EUT RF EXPOSURE

The Max. power (including tune-up tolerance) is $3.53+1.54=5.07$ dBm on the lowest channel 2.402 GHz (*)

5.07 dBm logarithmic terms convert to numeric result is nearly 3.21 mW

According to the formula. calculate the test exclusion thresholds:

General RF Exposure = $(3.21 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.99$ (1)

SAR requirement:

$S = 3.0$ (2)

$(1) < (2)$

So the SAR report is not required.

(*) Max. power refer to Report No.: FCC022022-1560RF0

(END OF REPORT)