

RF EXPOSURE REPORT

FOR

Applicant	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address	:	2/F, F Building, Hougang Industrial Zone, Shigang Village, Huangshi West Road, Baiyun District, Guangzhou City, China.
Equipment under Test	:	Portable High Resolution Music Player
Model No.	:	M11 Plus, M11S, M17, M15s, M15 Plus, M17s, M17 Pro, M17 Plus, R9, R9s, R9 Pro, R9 Plus, R5, R7
Trade Mark	:	FiiO
FCC ID	:	R56-FCIDQM
Manufacturer	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address	:	2/F, F Building, Hougang Industrial Zone, Shigang Village, Huangshi West Road, Baiyun District, Guangzhou City, China.

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
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REPORT

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Test Report Declare

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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-R21052802-2E11		
Date of Receipt:	May 28, 2021	Date of Test:	May 28, 2021 ~ Jul. 27, 2021

Prepared By:

Sam Li

Sam Li/Engineer

Approved By:



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	Jul. 29, 2021	

1. General Information

1.1. Description of equipment

EUT* Name	: Portable High Resolution Music Player
Model Number	: M11 Plus, M11S, M17, M15s, M15 Plus, M17s, M17 Pro, M17 Plus, R9, R9s, R9 Pro, R9 Plus, R5, R7
Model difference	: Only the appearance and model are different, there is no other difference. So, choose M11 Plus to test.
EUT function description	: Please reference user manual of this device
Power Supply	: DC 5V from external AC Adapter : DC 3.8V built-in battery
Radio Specification	: Bluetooth V4.2 : IEEE 802.11b/g/n : IEEE 802.11a/n/ac
Operation Frequency	: 2402 MHz - 2480 MHz : 2412 MHz - 2462 MHz : 5180 MHz - 5825 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) : IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) : IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) : IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Data Rate	: 1 Mbps, 2 Mbps, 3 Mbps : IEEE 802.11b: 1, 2, 5.5, 11 Mbps : IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps : IEEE 802.11n HT20: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78, 104, 117, 130 Mbps : IEEE 802.11n HT40: 13.5, 27, 40.5, 54, 81, 108, 121.5, 135 Mbps : IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps : IEEE 802.11n HT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130.0, 144.4 Mbps : IEEE 802.11n HT40: 30, 60, 90, 120, 180, 240, 270, 300 Mbps : IEEE 802.11ac HT20: 14.4, 28.8, 43.4, 57.8, 86.6, 115.6, 130, 144.4, 173.4 Mbps : IEEE 802.11ac HT40: 30, 60, 90, 120, 180, 240, 270, 300, 360, 400 Mbps : IEEE 802.11ac HT80: 65, 130, 195, 260, 390, 520, 585, 650, 780, 866.6 Mbps
Antenna Type	: 2.4G Band: Dedicated FPC antenna, maximum PK gain: 1.22 dBi : 5G Band: Dedicated FPC antenna, maximum PK gain: 1.68 dBi
Serial Number	: N/A

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

$f(\text{GHz})$ 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

Estimtion Result

Worse case is as below: [2441 MHz, 9.10 dBm, 8.13 mW) output power]

$(8.13/5) \cdot [\sqrt{2.441(\text{GHz})}] = 2.54 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT