



MPE Test Report

Report No.: CJLT-ESH-P23032233B-2

FCC ID: 2BC5WFF2100

Product: Wrist Blood Pressure Monitor

Test Model: FF2100

Received Date: Apr.03, 2023

Test Date: Apr.03 to Jul.26, 2023

Issued Date: Jul.27, 2023

Applicant: FITOLOGY Medical Technology (Hunan) Co., Ltd

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Manufacturer: Hunan Yinnosheng Medical Instrument Co., Ltd

Address: No.301,3rd Floor,Building 3, Emerging Industrial Park,Nanxian Economic Development Zone, Yiyang City, Hunan Province

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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FCC Registration/ Designation Number: 176467/CN1213



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Release Control Record

| Issue No. | Description | Date Issued |
|-----------------------|------------------|--------------|
| CJLT-ESH-P23032233B-2 | Original release | Jul.27, 2023 |



1 Certificate of Conformity

Product: Wrist Blood Pressure Monitor

Brand: --

Test Model: FF2100

Applicant: FITOLOGY Medical Technology (Hunan) Co., Ltd

Test Date: Apr.03 to Jul.26, 2023

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-2019

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

Handwritten signature of Yan Zhou.

, **Date:**

Jul.27, 2023

Yan ZHOU

Project Engineer

Approved by :

Handwritten signature of Sean Yu.

, **Date:**

Jul.27, 2023

Sean YU

RF Supervisor



2 General Information

2.1 General Description of EUT

BLE

| | |
|-----------------------|------------------------------|
| Product | Wrist Blood Pressure Monitor |
| Brand | -- |
| Test Model | FF2100 |
| Power Rating | 3.0v~4.4v powered by battery |
| Modulation Type | GFSK |
| Modulation Technology | Bluetooth Low Energy 5.0 |
| Operating Frequency | 2402MHz ~ 2480MHz |
| Number of Channel | 40 |
| Output Power | -1.29 dBm |
| Antenna Type | Ceramic Antenna |
| Antenna Connector | -- |
| Antenna Gain | 5.19 dBi |

Note:

1. For more details, please refer to the User's manual of the EUT.



3 RF Exposure

The corresponding SAR Exclusion Threshold condition, listed below:

1) 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) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:

a) [Threshold at 50 mm in step1) + (test separation distance - 50 mm)·($f(\text{MHz})/150$)] mW, at 100MHz to 1500 MHz

b) [Threshold at 50 mm in step1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.

a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ for test separation distances > 50 mm and < 200 mm.

b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances ≤ 50 mm.

c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3.1 Classification

The antenna of this product, under normal use condition, is at less than 20cm from the body of the user. So the device is classified as **Portable Device**.

3.2 SAR Test Exclusion Thresholds

The tuned conducted Power (declared by client)

| Mode | Frequency (MHz) | Target Power (dBm) | Tolerance (dBm) | Lower Tolerance (dBm) | Upper Tolerance (dBm) |
|------|-----------------|--------------------|-----------------|-----------------------|-----------------------|
| GFSK | 2402-2480 | -1.5 | ± 0.5 | -2 | -1 |

The measured conducted Power

| Mode | Frequency (MHz) | Max. Conducted Output power(dBm) |
|-------------|-----------------|----------------------------------|
| BT-LE(GFSK) | 2402 | -1.29 |

SAR Test Exclusion Thresholds

| Frequency Band (MHz) | Max. Conducted output power(dBm) | Distance (mm) | Result of Eq. 1 | Limit for 1-g SAR | Limit for 10-g Extremity SAR | Verdict |
|----------------------|----------------------------------|---------------|-----------------|-------------------|------------------------------|-----------------|
| 2402-2480 | -1 | 5 | 0.2462 | 3 | 7.5 | Exempt from SAR |

Conclusion:

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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