

RF Exposure Evaluation Report

Product : Rhythm Master ECG Patch
Trade mark : N/A
Model/Type reference : HM-15BB-AX, HM-15BW-AX,
HM15BW-DX
Serial Number : N/A
Report Number : EED32R80869102
FCC ID : 2BQF2-SMW-ECG2025
Date of Issue : Jul. 04, 2025
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:
Smwmed Inc.

11295 Manorgate Dr, San Diego, CA, US

Prepared by:
Centre Testing International Group Co., Ltd.
Hongwei Industrial Park, Zone 70, Bao'an District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Compiled by:

Keven Tan

Keven Tan

Reviewed by:

Frazer Li

Frazer Li

Approved by:

Aaron Ma

Aaron Ma

Date:

Jul. 04, 2025



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2 General Information

2.1 Client Information

Applicant:	Smwmed Inc.
Address of Applicant:	11295 Manorgate Dr, San Diego, CA, US
Manufacturer:	Smwmed Inc.
Address of Manufacturer:	11295 Manorgate Dr, San Diego, CA, US
Factory:	Smwmed Inc.
Address of Factory:	11295 Manorgate Dr, San Diego, CA, US

2.2 General Description of EUT

Product Name:	Rhythm Master ECG Patch
Model No.(EUT):	HM-15BB-AX, HM-15BW-AX, HM15BW-DX
Test model:	HM-15BB-AX
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	GRDirect Test Mode Tool
Antenna Type:	Ceramic Antenna
Antenna Gain:	0 dBi
Power Supply:	DC 5V
Sample Received Date:	Jun. 09, 2025
Sample tested Date:	Jun. 09, 2025 to Jun. 16, 2025

Model No.: HM-15BB-AX, HM-15BW-AX, HM15BW-DX

Only the model HM-15BB-AX was tested, production units bearing the following model numbers have same electrical, PCB and layout. Only the model name (HM-15BB-AX and HM-15BW-AX, HM-15BW-DX), communication protocol and viewing software platform are different for marketing requirements. See below for details.

(Optional):

Model	HM-15BB-AX	HM-15BW-AX, HM-15BW-DX
Communication Protocol	Bluetooth Low Energy (2402MHz – 2480 MHz)	USB2.0
Viewing Software Platform	Android APP	Windows APP

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation**For Stand alone:**

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2480	0.5	1.62	0	-0.53	0.88511561	2.7877	0.28	Pass

Note:

① EIRP=conducted power+antenna gain;

② $ERP=EIRP-2.15$;③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;

⑤ The estimation distance is 0.5cm;

⑥ The test data please refer to the report of EED32R80351901 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***