

Report No.: EED32P81106702 Page 1 of 7

RF Exposure Evaluation Report

Product : ECG recorder

Trade mark : N/A

Model/Type reference : EMobile-C, EM-1A, EM-1B, EM-1C,

EMobile-A, EMobile-B

Serial Number : N/A

Report Number : EED32P81106702 **FCC ID** : A49EMOBILE-C

Date of Issue : Aug. 14, 2023

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1093

447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

Shenzhen Creative Industry Co., Ltd.
Floor 5, BLD 9, Baiwangxin High-Tech Industrial Park, Songbai Road,
Xili Street, Nanshan District, 518110 Shenzhen,
PEOPLE'S REPUBLIC OF CHINA

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

TEL: +86-755-3368 3668 FAX: +86-755-3368 3385



mark.chen.

Reviewed by:

Tom Chen

Mark Chen

avon Ma

Date:

Aug. 14, 2023

Aaron Ma

Check No.: 4249190723









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Report No. : EED32P81106702

Contents



	_					Page
	E					
	NFORMATION.					
4.2 GENERAL 4.3 PRODUCT 4.4 TEST LOC 4.5 DEVIATIO	NFORMATION DESCRIPTION OF SPECIFICATION S CATION ON FROM STANDAL ALITIES FROM STA	EUT UBJECTIVE TO 	THIS STANDARI)		
4.7 OTHER IN	FORMATION REQ	UESTED BY THI	E CUSTOMER		 	
	ATION					
	SURE COMPLIANC					
5.1.2 Tes	t Procedure				 	(
5.1.3 EU	T RF Exposure	Evaluation				







4.1 Client Information

Applicant:	Shenzhen Creative Industry Co., Ltd. Floor 5, BLD 9, Baiwangxin High-Tech Industrial Park, Songbai Road, Xili Street, Nanshan District, 518110 Shenzhen, PEOPLE'S REPUBLIC OF CHINA					
Address of Applicant:						
Manufacturer:	Shenzhen Creative Industry Co., Ltd.					
Address of Manufacturer:	Floor 5, BLD 9, Baiwangxin High-Tech Industrial Park, Songbai Road, Xili Street, Nanshan District, 518110 Shenzhen, PEOPLE'S REPUBLIC OF CHINA					
Factory:	Shenzhen Creative Industry Co., Ltd.					
Address of Factory:	Floor 5, BLD 9, Baiwangxin High-Tech Industrial Park, Songbai Road, Xili Street, Nanshan District, 518110 Shenzhen, PEOPLE'S REPUBLIC OF CHINA					

4.2 General Description of EUT

Product Name:	ECG recorder
Model No.:	EMobile-C, EM-1A, EM-1B, EM-1C, EMobile-A, EMobile-B
Test Model No.:	EMobile-C
Trade mark:	N/A
Device type:	Portable

4.3 Product Specification subjective to this standard

-	_				
Frequency Range:	2402MHz~2480MHz				
Modulation Type:	GFSK				(3)
Test Power Grade:	Default		(67)		(6,2)
Test Software of EUT:	662x_FCC_Rev1.7R				
Antenna Type:	Chip antenna				
Antenna Gain:	3.49dBi	/05		705	
Power Supply:	Battery DC 3.7V			(21)	
Sample Received Date:	Jul. 20, 2023				
Sample tested Date:	Jul. 20, 2023 to Jul. 27, 2023				

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: EMobile-C, EM-1A, EM-1B, EM-1C, EMobile-A, EMobile-B

Only the model EMobile-C was tested. The principle, structure and composition, intended use, key components, and electrical structure of the products are the same, and only the functional Configuration is different. Therefore, the model with the most complete functions [EMobile-C] was selected as the main inspection model to cover the other models.















4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted. FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer





Report No.: EED32P81106702 Page 6 of 7

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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

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

where

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

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

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

5.1.2 Test Procedure

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







5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BLE

	1 400	7.1	7 60	9.1		60.71		1 44 41
	6.	Max.	6,	/	1	37)		(0,0)
Frequency (MHz)	Separation distance (cm)	Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	0.50	-9.4	3.49	-5.91	-8.06	0.156	2.788	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15

except in full.

③Only the worst case data was recorded in the report.



