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RF Exposure Evaluation Report

Product : Pulse Oximeter

Trade mark N/A

Model/Type reference : WS20A, WS20A1, WS20A2, WS20A3

Serial Number

Report Number : EED32P81261302

FCC ID : 2AZDVWS2XX Date of Issue

: Sep. 01, 2023 47 CFR Part 1.1307

Test Standards

47 CFR Part 1.1310 47 CFR Part 2.1093

447498 D04 Interim General RF

Exposure Guidance v01

PASS Test result

Prepared for:

Hunan Accurate Bio-Medical Technology Co., Ltd. Accurate Industrial Park, No.108, Zhixian Road, Xuelian Community, Xueshi Street of Yuelu District, 410208 Changsha, Hunan Province, PEOPLE'S REPUBLIC OF China

Prepared by:

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

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4.1 Client Information

Applicant:	Hunan Accurate Bio-Medical Technology Co., Ltd.				
Address of Applicant:	Accurate Industrial Park, No.108, Zhixian Road, Xuelian Community, Xueshi Street of Yuelu District, 410208 Changsha, Hunan Province, PEOPLE'S REPUBLIC OF China				
Manufacturer:	Hunan Accurate Bio-Medical Technology Co., Ltd.				
Address of Manufacturer:	Accurate Industrial Park, No.108, Zhixian Road, Xuelian Community, Xueshi Street of Yuelu District, 410208 Changsha, Hunan Province, PEOPLE'S REPUBLIC OF China				
Factory:	Hunan Accurate Bio-Medical Technology Co., Ltd.				
Address of Factory:	Accurate Industrial Park, No.108, Zhixian Road, Xuelian Community, Xueshi Street of Yuelu District, 410208 Changsha, Hunan Province, PEOPLE'S REPUBLIC OF China				

4.2 General Description of EUT

Product Name:	Pulse Oximeter	
Model No.:	WS20A, WS20A1, WS20A2, WS20A3	C'S
Test Model No.:	WS20A	(5,5)
Trade Mark:	N/A	
Device type:	Portable	

Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz			(0)
Modulation Type:	GFSK			
Test Power Grade:	Default			
Test Software of EUT:	BK3432_FCC_TEST			
Antenna Type:	PCB antenna	N")	(67)	
Antenna Gain:	-2.87dBi			
Power Supply:	Battery DC 3.7V			
Sample Received Date:	Aug. 14, 2023	(°5)		/°>
Sample tested Date:	Aug. 14, 2023 to Aug. 22, 2023	(6.5)		

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.: WS20A, WS20A1, WS20A2, WS20A3

WS20A is the main test model and apart from the color of the product appearance the product structure, circuit and functions are completely the same.















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





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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

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

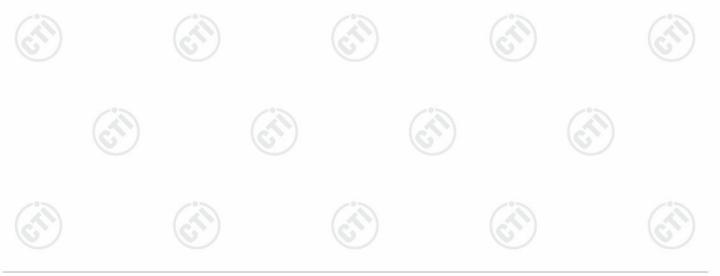
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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





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5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BLE

9	1	P. A.	7 70	9.1		40, 77 1		1 - 20 - 70 1
	6.	Max.	6,		/			(0,)
Frequency (MHz)	Separation distance (cm)	Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2440	0.50	2.95	-2.87	0.08	-2.07	0.621	2.753	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15
- ③Only the worst case data was recorded in the report.

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