RF Exposure Evaluation Report

Product	:	Pulse Oximeter
Trade mark	:	MedLinket
Model/Type reference	:	AM801, AM806B
Serial Number	:	N/A
Report Number	:	EED32P80192602
FCC ID	:	2ADMM-AM801
Date of Issue	:	Mar. 16, 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 Med-link Electronics Tech Co., Ltd
4th and 5th Floor, Building Two, Hualian Industrial Zone, Xinshi Community, Dalang Street, Longhua District, 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

Compiled by:	mark. chen.	Reviewed by:	Tom Chen
	Mark Chen		Tom Chen
Approved by:	Aaron Ma	Date:	Mar. 16, 2023
	Aaron Ma		

Check No.: 4050170223

2 Version

Version No.	Date	Description
00	Mar. 16, 2023	Original

3 Contents

4 General Information

4.1 Client Information

Applicant:	Shenzhen Med-link Electronics Tech Co., Ltd
Address of Applicant:	4th and 5th Floor, Building Two, Hualian Industrial Zone, Xinshi Community, Dalang Street, Longhua District, Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Shenzhen Med-link Electronics Tech Co., Ltd
Address of Manufacturer:	4th and 5th Floor, Building Two, Hualian Industrial Zone, Xinshi Community, Dalang Street, Longhua District, Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Factory:	Shenzhen Med-link Electronics Tech Co., Ltd
Address of Factory:	4th and 5th Floor, Building Two, Hualian Industrial Zone, Xinshi Community, Dalang Street, Longhua District, Shenzhen, PEOPLE'S REPUBLIC OF CHINA

4.2 General Description of EUT

Product Name:	Pulse Oximeter
Model No.(EUT):	AM801, AM806B
Test Model No.:	AM801
Trade Mark:	MedLinket
Device type:	Portable

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	BK32xx RF Test
Antenna Type:	PCB antenna
Antenna Gain:	1.85dBi
Power Supply:	Battery DC 3V
Sample Received Date:	Feb. 17, 2023
Sample tested Date:	Feb. 17, 2023 to Mar. 08, 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.: AM801, AM806B
Only the model AM801 was tested. All the models are identical in schematics, rated voltage. The difference is standard accessories.

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

None.

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

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

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

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

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.

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

Frequency (MHz)	Separation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	0.50	-0.75	1.85	1.1	-1.05	0.785	2.788	PASS

Note：

①EIRP=conducted power+antenna gain；

②ERP=EIRP-2.15

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

*** End of Report ***