RF Exposure Evaluation Report

Product	:	Baby Heartbeat Monitor
Trade mark	:	N/A
Model/Type reference	:	P600L
Serial Number	:	N/A
Report Number	:	EED32N00020703
FCC ID	:	2AVCG-P600L
Date of Issue	:	Apr. 09, 2021
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Test result	:	PASS

Prepared for:

LEPU ZHIXIN MEDICAL TECHNOLOGY(TIANJIN) CO.,LTD
Room 1-301, Building 10, Ligang Zone, Industrial Park,
Shuang Gang Town, Jinnan District, Tianjin, China

Prepared by:

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	David Wang		

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2 Version

Version No.	Date	Description
00	Apr. 09, 2021	Original

3 Contents

4 General Information

4.1 Client Information

Applicant:	LEPU ZHIXIN MEDICAL TECHNOLOGY(TIANJIN) CO.,LTD
Address of Applicant:	Room 1-301, Building 10, Ligang Zone, Industrial Park, Shuang Gang Town, Jinnan District, Tianjin, China
Manufacturer:	LEPU ZHIXIN MEDICAL TECHNOLOGY(TIANJIN) CO.,LTD
Address of Manufacturer:	Room 1-301, Building 10, Ligang Zone, Industrial Park, Shuang Gang Town, Jinnan District, Tianjin, China
Factory:	LEPU ZHIXIN MEDICAL TECHNOLOGY(TIANJIN) CO.,LTD
Address of Factory:	Room 1-301, Building 10, Ligang Zone, Industrial Park, Shuang Gang Town, Jinnan District, Tianjin, China

4.2 General Description of EUT

Product Name:	Baby Heartbeat Monitor
Mode No.:	P600L
Test model:	P600L
Trade Mark:	N/A
EUT Supports Radios application:	BT 5.1 dual module 2402MHz to 2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	BT 5.1 dual module 2402MHz to 2480MHz;	
Test Power Grade:	Default	
Test Software of EUT:	FCC Assist 1.0.1.2	
Antenna Type:	PCB antenna	
Antenna Gain:	-0.68dBi	
Power Supply:	Lithium battery: DC 3.7V, Charge by DC 5.0V	
Max Conducted Peak Output Power:	BLE:	7.30dBm
		The Max Conducted Peak Output Power data refer to the report EED32N00020701
	BT Classic:	7.95dBm
		The Max Conducted Peak Output Power data refer to the report EED32N00020702
Sample Received Date:	Mar. 31, 2021	
Sample tested Date:	Mar. 31, 2021 to Apr. 7, 2021	
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.		

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 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

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:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
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

5.1.2 EUT RF Exposure

1) For BLE

The tune-up power is 7.0 dBm +/- 0.5dB, therefore the highest tune-up power is

7.500	(5.62 mW)	@ 2480 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

(	5.62	/	5mm	) * (	2.480GHz	^0.5	)=	1.8

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [√f(GHz)] = 1.8 < 3.0

Therefore, standalone SAR measurements are not required for both head and body.

2) For BT Classic

The tune-up power is 7.0 dBm +/- 1.0dB, therefore the highest tune-up power is

8.000	(6.31 mW)	@ 2480 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

(	6.31	/	5mm	) * (	2.480GHz	^0.5	)=	2.0

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [√f(GHz)] = 2.0 < 3.0

Therefore, standalone SAR measurements are not required for both head and body.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N00020701 for EUT external and internal photos.

*** End of Report ***