

# RF Exposure Evaluation Report

**Product** : Blood Pressure Monitor  
**Trade mark** : N/A  
**Model/Type reference** : 2006-2B  
**Serial Number** : N/A  
**Report Number** : EED32K00297602  
**FCC ID** : 2AHLE-BPMB001  
**Date of Issue** : May 20, 2019  
47 CFR Part 1.1307  
**Test Standards** : 47 CFR Part 2.1093  
KDB 447498D01 v06  
**Test result** : PASS

Prepared for:

**Bioland Technology Ltd.**

**A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgang  
District 518116, Shenzhen, Guangdong, 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**

Tested By:

Jay Zheng

Compiled by:

Kevin Lan

Reviewed by:

Wave Xin

Approved by:

Kevin Yang

Kevin yang

Date:

May 20, 2019

Check No.: 3570126349



## 2 Version

Version No.	Date	Description
00	May 20, 2019	Original

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## 4 General Information

### 4.1 Client Information

Applicant:	Bioland Technology Ltd.
Address of Applicant:	A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgang District 518116, Shenzhen, Guangdong, China
Manufacturer:	Bioland Technology Ltd.
Address of Manufacturer:	A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgang District 518116, Shenzhen, Guangdong, China
Factory:	Bioland Technology Ltd.
Address of Factory:	A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgang District 518116, Shenzhen, Guangdong, China

### 4.2 General Description of EUT

Product Name:	Blood Pressure Monitor
Model No.(EUT):	2006-2B
Test Model No.:	2006-2B
Trade mark:	N/A
EUT Supports Radios application:	BT: 4.0 BT Single mode: 2402MHz to 2480MHz

### 4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Sample Type:	Portable production
Test Power Grade:	N/A
Test software of EUT:	SmartRF_Studio_7(manufacturer declare)
Antenna Type:	PCB Antenna
Antenna Gain:	1.43dBi
Power Supply:	AA ALKALINE Battery 4X1.5V
Conduct Peak Power:	-2.573dBm
	The Conduct Peak Power data refer to the report EED32K00297601
Sample Received Date:	Nov. 05, 2018
Sample tested Date:	Nov. 21, 2018 to Nov. 28, 2018
The tested sample(s) and the sample information are provided by the client.	

#### **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.

#### 5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where  $f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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

#### 5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -2.573dBm in highest channel(2.480GHz);

The best case gain of the antenna is 1.43dBi.

$\text{EIRP} = -2.573\text{dBm} + 1.43\text{dBi} = -1.143\text{dBm}$

-1.143dBm logarithmic terms convert to numeric result is nearly 0.769mW

According to the formula. calculate the EIRP test result:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

General RF Exposure =  $(0.769\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}} = 0.2384$ ①

SAR requirement:

$S = 3.0$

② ;

① < ②.

So the SAR report is not required.

## PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00297601 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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