



SAR Evaluation Report

Product: Blood Glucose Meter

Trade mark : N/A

Model/Type reference : G-427B

Serial Number : N/A

Report Number : EED32K00051802 **FCC ID** : 2AHLE-BGMB002

Date of Issue : Apr. 24, 2018

Test Standards : 47 CFR Part 1.1307

47 CFR Part 2.1093 KDB447498D01 v06

Test result : PASS

Prepared for:

Bioland Technology Ltd.

A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgang

District, Shenzhen, guangdong, China

Prepared by:

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

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Date: Apr. 24, 2018

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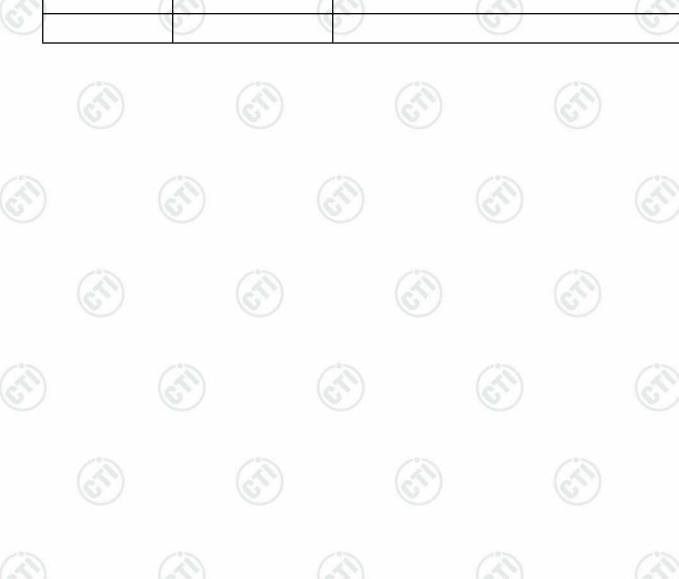


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2 Version

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00	Apr. 24, 2018	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, Shenzhen, guangdong, China	
Manufacturer:	Bioland Technology Ltd.	
Address of Manufacturer: A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longga District, Shenzhen, guangdong, China		
Factory:	Bioland Technology Ltd.	
Address of Factory: A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgan District, Shenzhen, guangdong, China		

4.2 General Description of EUT

Product Name:	Blood Glucose Meter		-0-
Mode No.(EUT):	G-427B	(24)	(20)
Trade Mark:	N/A	0	(6)
EUT Supports Radios application:	2402-2480MHz		

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	Bluetooth	
Number of Channels:	40	
Test Power Grade:	4(manufacturer declare)	
Test Software of EUT:	Bluetooth TI Tool (manufacturer declare)	
Antenna Type:	PCB antenna	
Antenna Gain:	2.81dBi	
Power Supply:	DC 3V (Alkaline Battery AAA *2)	
Canduated Deals Output	-1.513dBm	
Conducted Peak Output Power:	The Conducted Peak Output Power data refer to the report EED32K00051801	
Sample Received Date:	Mar. 15, 2018	
Sample tested Date: Mar. 15, 2018 to Apr. 24, 2018		
The tested sample(s) and the	ne sample information are provided by the client.	



















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4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

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

4.5 Test Facility

None.

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Other Information Requested by the Customer

None.











































































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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-q and 10-q 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)] $[\sqrt{f(GHz)}] \le 3.0$ 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 calculation¹⁷

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

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -1.513dBm in Lowest channel (2.402GHz);

The best case gain of the antenna is 2.81dBi.

EIRP= -1.513dBm + 2.81dBi = 1.297dBm

1.297dBm logarithmic terms convert to numeric result is nearly 1.35mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(1.35 \text{mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{GHz}} = 0.418 \text{ }\bigcirc$

SAR requirement:

S = 3.0

(1) < (2).

So the SAR report is not required.































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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00051801 for EUT external and internal photos.

*** End of Report ***

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