

# RF Exposure Evaluation Report

**Product** : Blood Glucose Meter  
**Trade mark** : N/A  
**Model/Type reference** : BG-207b, BG-707b, BG-209b, BG-709b  
**Serial Number** : N/A  
**Report Number** : EED32M00026602  
**FCC ID** : 2AWPL0001  
**Date of Issue** : Jul. 03, 2020  
**Test Standards** : 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06  
**Test result** : PASS

Prepared for:

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Prepared by:

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## 2 Version

Version No.	Date	Description
00	Jul. 03, 2020	Original

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## 4 General Information

### 4.1 Client Information

Applicant:	Hangzhou Sejoy Electronics & Instruments CO., LTD.
Address of Applicant:	AreaC, Building2, No.365, Wuzhou Road, Yuhang Economic Development Zone Hangzhou City 311100 Zhejiang China
Manufacturer:	Hangzhou Sejoy Electronics & Instruments CO., LTD.
Address of Manufacturer:	AreaC, Building2, No.365, Wuzhou Road, Yuhang Economic Development Zone Hangzhou City 311100 Zhejiang China
Factory:	Hangzhou Sejoy Electronics & Instruments CO., LTD.
Address of Factory:	AreaC, Building2, No.365, Wuzhou Road, Yuhang Economic Development Zone Hangzhou City 311100 Zhejiang China

### 4.2 General Description of EUT

Product Name:	Blood Glucose Meter
Model No.(EUT):	BG-207b, BG-707b, BG-209b, BG-709b
Test Model No.:	BG-207b
Trade Mark:	N/A
EUT Supports Radios application:	5.0 BT Single mode, 2402MHz to 2480MHz

### 4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz					
Modulation Type:	GFSK					
Test Power Grade:	Default					
Test Software of EUT:	PhyPlusKit					
Antenna Type:	PCB Antenna					
Antenna Gain:	0.5 dBi					
Power Supply:	Battery	CR2032 DC 3V				
	Battery	AAA 1.5V*2				
Max Conducted Peak Output Power:	BT4.0: -0.217 dBm					
	The Max Conducted Peak Output Power data refer to the report EED32M00026601					
Sample Received Date:	Feb. 25, 2020					
Sample tested Date:	Feb. 25, 2020 to Jun. 16, 2020					
<p>The tested sample(s) and the sample information are provided by the client.          Model No.: BG-207b, BG-707b, BG-209b, BG-709b.          Only the model BG207b was tested, the differences between each model are as follows, other portions are as the same.</p>						
Meter Models	Test Strips Models	Battery	Bluetooth	Backlight	Voice	Appearance
BG-207b	BS-302	CR2032	Yes	Yes	No	Same
BG-707b	BS-602		Yes	Yes	No	
BG-209b	BS-302	AAA	Yes	Yes	Optional	Same
BG-709b	BS-602		Yes	Yes	Optional	

#### **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 tune-up power is -0.5 dBm +/- 0.5dB, therefore the highest tune-up power is

0.0 dBm (1.00 mW) @ 2402 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,

$$(1.00\text{mW} / 5\text{mm}) * (2.402\text{GHz}^{0.5}) = 0.3$$

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = 0.3 < 3.0$$

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



## PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M00026601 for EUT external and internal photos.

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

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