

RF Exposure Evaluation Report

Product : Blood Glucose Meter
Trade mark : N/A
Model/Type reference : BG-710b, BG-210b
Test Model No. : BG-710b
Serial Number : N/A
Report Number : EED32N00024202
FCC ID : 2AWPL0003
Date of Issue : Jul. 05, 2021
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General
RF Exposure Guidance v06
Test result : PASS

Prepared for:

Hangzhou Sejoy Electronics & Instruments Co., Ltd.
Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic
Development Zone, Hangzhou City, 311100 Zhejiang P.R. 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:

Martin Lee

Reviewed by:

Aaron Ma

Approved by:

Martin Lee
David Wang

Date:

Jul. 05, 2021

David Wang

Check No.: 4538083946

2 Version

Version No.	Date	Description
00	Jul. 05, 2021	Original

3 Contents

Page

1 COVER PAGE.....	1
2 VERSION.....	2
3 CONTENTS.....	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION.....	4
4.2 GENERAL DESCRIPTION OF EUT.....	4
4.3 TEST LOCATION.....	5
4.4 DEVIATION FROM STANDARDS.....	5
4.5 ABNORMALITIES FROM STANDARD CONDITIONS.....	5
4.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	5
5 SAR EVALUATION.....	6
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT.....	6
5.1.1 Standard Requirement.....	6
5.1.2 EUT RF Exposure.....	7
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS.....	8

4 General Information

4.1 Client Information

Applicant:	Hangzhou Sejoy Electronics & Instruments Co., Ltd.
Address of Applicant:	Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang P.R. China
Manufacturer:	Hangzhou Sejoy Electronics & Instruments Co., Ltd.
Address of Manufacturer:	Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang P.R. China
Factory:	Hangzhou Sejoy Electronics & Instruments Co., Ltd.
Address of Factory:	Area C, Building 2, No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang P.R. China

4.2 General Description of EUT

Product Name:	Blood Glucose Meter
Mode No.:	BG-710b, BG-210b
Test Model No.:	BG-710b
Trade Mark:	N/A
Bluetooth Version:	V5.0
Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	☒ 1Mbps ☐ 2Mbps
Test Power Grade:	Default
Test Software of EUT:	PhyPlusKit
Antenna Type:	PCB antenna
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Antenna Gain:	0.5dBi
Power Supply:	2*AAA Battery
Sample Received Date:	Apr. 15, 2021
Sample tested Date:	Apr. 16, 2021 to May 11, 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.	

Model No.: BG-710b, BG-210b

Only the model BG-710b was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.

4.3 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

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 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:

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

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

5.1.2 EUT RF Exposure

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.67	3.0±1	4.0	2.512
Middle(2440MHz)	3.42	2.5±1	3.5	2.239
Highest(2480MHz)	2.66	2.0±1	3.0	1.995

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	3.67	3.0±1	4.0	2.512	0.78	3.0
Middle (2440MHz)	3.42	2.5±1	3.5	2.239	0.70	
Highest (2480MHz)	2.66	2.0±1	3.0	1.995	0.63	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32N00024201.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N00024201 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***