FCC TEST REPORT

For

Insulin Pump

Model Number: AR-B200A, AR-B200B, AR-B200C, AR-B200D

FCC ID: 2BARWB200

Report Number : WT238000029

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection
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Revision History

No	Date	Remark
V1.0	2023.04.20	Initial issue

TEST REPORT DECLARATION

Applicant	:	AARUY Medical Electronics Co., Ltd.
Address	:	20/F, West Block, Skyworth Semiconductor Design Building, Shenzhen, China
Manufacturer	:	AARUY Medical Electronics Co., Ltd.
Address	:	20/F, West Block, Skyworth Semiconductor Design Building, Shenzhen, China
EUT Description	:	Insulin Pump
Model No	:	AR-B200A, AR-B200B, AR-B200C, AR-B200D
Trade mark	:	aaruy
FCC ID	:	2BARWB200

Test Standards:

FCC Part 1 Subpart I 1.1310 FCC Part 2 Subpart J 2.1091 & 2.1093

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:	陈可林	_ Date:	Apr.20, 2023
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Checked by:	万晚靖	Date:	Apr.20, 2023
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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
RF Exposure	Pass

Remark: "N/A" means "Not applicable."

2. GENERAL INFORMATION

2.1. Report Information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

The lab will not be liable for any loss or damage resulting for false, inaccurate, inappropriate or incomplete product information provided by the applicant/manufacturer.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078 and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for Laboratory Accreditation (A2LA) and certificate number is 3292.01.

3. PRODUCT DESCRIPTION

3.1. EUT Description

Table 2 Specification of the Equipment under Test

Description:	Insulin Pump
Hardware Version:	A2
Software Version:	V1.0.1.02
FCC ID:	2BARWB200
Frequency:	BT:2.402GHz~2.480GHz
Type(s) of Modulation:	Bluetooth: GFSK
Antenna Type:	Internal Antenna: MAX -2.34 dBi
Operating voltage:	DC 3.7V

Remark: The four models of insulin pump are AR-B200A, AR-B200B, AR-B200C, AR-B200D. All of the models' circuit theory, electrical design and critical components are the same. The differences lies in fixing hole of the catheter and extended bolus & bolus guide function, as shown in the table below:

ltem	AR-B200A	AR-B200B	AR-B200C	AR-B200D
Fixing hole of the catheter	\checkmark	\checkmark	×	×
Extended bolus & bolus guide function	\checkmark	×	\checkmark	×

4. RF EXPOSURE

4.1.FCC RULES

According to 447498 D01 General RF Exposure Guidance v06

For minimum test separation distance ≤ 50 mm, Wifi standalone SAR test exclusion power threshold is determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \leq 3.0$ 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
- The result is rounded to one decimal place for comparison

4.2. SAR EXCLUSION CALCULATION

BT worse case is 2480MHz: -4.73dBm (0.34mW) Then (0.34 mW/5mm) X $\,\,\sqrt{2.480}$ =0.11 < 3 So SAR evaluation is not applicable

END OF REPORT