

Report No.: EED32O81611002 Page 1 of 8

# RF Exposure Evaluation Report

**Product** Smart Health Monitoring Ring

N/A Trade mark

Model/Type reference See content 3.2

**Serial Number** N/A

EED32O81611002 **Report Number FCC ID** 2A854JZBOR-01

Nov. 15, 2022 Date of Issue

> 47 CFR Part 1.1307 47 CFR Part 2.1093

**Test Standards** KDB447498D01 General RF

Exposure Guidance v06

**Test result** : PASS

Prepared for:

Guangdong Jiuzhi Technology Co., Ltd 411-18, Building C, Innovation Center, Xiangshan Avenue, Cuiheng New District, zhongshan City, 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:

Reviewed by:

Tom Chen Nov. 15, 2022

Date:

Check No.: 8551131022

Report Seal

Aaron Ma

Mark Chen

avon Ma

Hotline:400-6788-333

www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com









Report No.: EED32O81611002

Page 2 of 8

#### 2 Version

| Version No. | Date          | Description |   |  |
|-------------|---------------|-------------|---|--|
| 00          | Nov. 15, 2022 | Original    | 9 |  |
|             |               |             |   |  |



































































Report No. : EED32O81611002

Page 3 of 8

#### 3 **Contents**

|   | - (1)  |   |                     |        |      | Page   |
|---|--|---|---------------------|--------|------|--------|
| 1 COVER PA 2 VERSION  | GE   |   |                     | •••••• |      | 2      |
| 3 CONTENTS  | S  |   |                     |        | <br> | 3      |
| 4.1 CLIENT 4.2 GENERA 4.3 PRODUC 4.4 TEST LC 4.5 DEVIATI 4.6 ABNORM 4.7 OTHER I | INFORMATION INFORMATION L DESCRIPTION OF T SPECIFICATION S OCATION ON FROM STANDAI MALITIES FROM STA INFORMATION REQ | EUT UBJECTIVE TO THE THE TO TH | THIS STANDARE TIONS | )      |      |        |
| 5.1 RF EXPO<br>5.1.1 St<br>5.1.2 Lir  | UATIONosure Complianc<br>andard Requirem<br>mits   | E REQUIREMEN  | Т                   |        |      | 6<br>6 |
|   |  |   |                     |        |      |        |
|   |  |   |                     |        |      |        |
|   |  |   |                     |        |      |        |
|   |  |   |                     |        |      |        |
|   |  |   |                     |        |      |        |





### 4 General Information

### 4.1 Client Information

| Applicant:               | Guangdong Jiuzhi Technology Co., Ltd   |
|--------------------------|--|
| Address of Applicant:    | 411-18, Building C, Innovation Center, Xiangshan Avenue, Cuiheng New District, zhongshan City, China |
| Manufacturer:            | Guangdong Jiuzhi Technology Co., Ltd   |
| Address of Manufacturer: | 411-18, Building C, Innovation Center, Xiangshan Avenue, Cuiheng New District, zhongshan City, China |
| Factory:                 | Huizhou Speed Wireless Technology Co., Ltd   |
| Address of Factory:      | 138 Huize Avenue, Dongjiang Hi tech Industrial Park, Zhongkai Hi tech Zone,<br>Huizhou               |

# 4.2 General Description of EUT

| Product Name:   | Smart Health Monitoring Ring                                  |
|-----------------|---|
| Model No.(EUT): | BOR-01-9, BOR-01-6, BOR-01-7, BOR-01-8, BOR-01-10, BOR-01-11, |
|                 | BOR-01-12, BOR-01-13, BOR-01-14                               |
| Test Model No.: | BOR-01-9  |
| Trade Mark:     | N/A   |

### 4.3 Product Specification subjective to this standard

| Frequency Range:      | 2402MHz~2480MHz   |
|-----------------------|---|
| Modulation Type:      | GFSK  |
| Test Power Grade:     | Default   |
| Test Software of EUT: | bgtool  |
| Antenna Type:         | Ceramic Antenna   |
| Antenna Gain:         | 2.5dBi  |
| Power Supply:         | DC 3.8V   |
| Max Conducted Peak    | 0.05dBm   |
| Output Power:         | The Max Conducted Peak Output Power data refer to the report EED32O81611001 |
| Sample Received Date: | Oct. 14, 2022   |
| Sample tested Date:   | Oct. 14, 2022 to Oct. 19, 2022  |

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: BOR-01-9, BOR-01-6, BOR-01-7, BOR-01-8, BOR-01-10, BOR-01-11, BOR-01-12, BOR-01-13, BOR-01-14

Only the model BOR-01-9 was tested. The similarities between these models are that they use the same electronic components, but the differences are the product inner diameter.

















### 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

# 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 ≤ 50 mm are determined by:

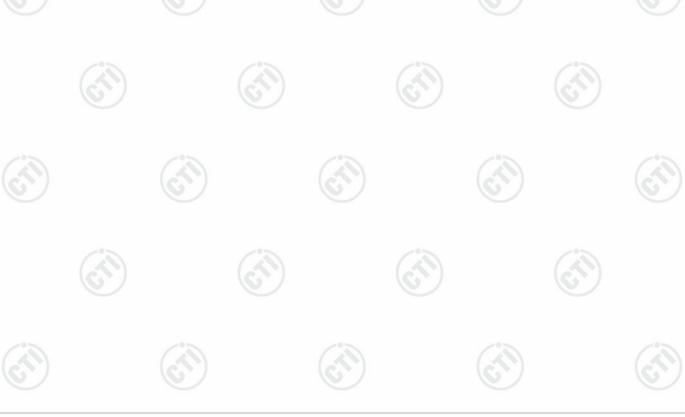
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<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  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion







# 5.1.3 EUT RF Exposure

### 1) For Bluetooth LE

### **Measurement Data:**

BLE 1M:

|                  | GFSK r            | node              |                       |       |
|------------------|-------------------|-------------------|-----------------------|-------|
| Test channel     | Peak Output Power | Tune up tolerance | Maximum tune-up Power |       |
|                  | (dBm)             | (dBm)             | (dBm)                 | (mW)  |
| Lowest(2402MHz)  | 0.04              | 0.0±0.5           | 0.5                   | 1.122 |
| Middle(2441MHz)  | -0.43             | 0.0±0.5           | 0.5                   | 1.122 |
| Highest(2480MHz) | -0.19             | 0.0±0.5           | 0.5                   | 1.122 |

#### BLE 2M:

| GFSK mode        |                   |                   |                       |       |  |
|------------------|-------------------|-------------------|-----------------------|-------|--|
| Test channel     | Peak Output Power | Tune up tolerance | Maximum tune-up Power |       |  |
|                  | (dBm)             | (dBm)             | (dBm)                 | (mW)  |  |
| Lowest(2402MHz)  | 0.05              | 0.0±0.5           | 0.5                   | 1.122 |  |
| Middle(2441MHz)  | -0.41             | 0.0±0.5           | 0.5                   | 1.122 |  |
| Highest(2480MHz) | -0.16             | 0.0±0.5           | 0.5                   | 1.122 |  |

| Channel              | Maximum Peak Conducted | Tune up tolerance | Maximum tune-<br>up Power |       | Calculated | Exclusion |
|----------------------|------------------------|-------------------|---------------------------|-------|------------|-----------|
|                      | Output Power<br>(dBm)  | (dBm)             | (dBm)                     | (mW)  | value      | threshold |
| Lowest<br>(2402MHz)  | 0.05                   | 0.0±0.5           | 0.5                       | 1.122 | 0.353      |           |
| Middle<br>(2441MHz)  | -0.41                  | 0.0±0.5           | 0.5                       | 1.122 | 0.353      | 3.0       |
| Highest<br>(2480MHz) | -0.16                  | 0.0±0.5           | 0.5                       | 1.122 | 0.353      |           |

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O81611001.









Report No.: EED32O81611002

Page 8 of 8

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 \*\*\*





































































