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Report No.: SHEM140700191503

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#### 1 **Cover Page**

# FCC MPE REPORT

| Application No.:            | SHEM1407001915RF                                                                       |  |  |  |  |  |  |
|-----------------------------|----------------------------------------------------------------------------------------|--|--|--|--|--|--|
| Applicant:                  | Beijing Choice Electronic Technology Co., Ltd                                          |  |  |  |  |  |  |
| FCC ID:                     | WWIMD300C208                                                                           |  |  |  |  |  |  |
| Equipment Under Test (EUT): |                                                                                        |  |  |  |  |  |  |
| NOTE: The following sa      | NOTE: The following sample(s) submitted was/were identified on behalf of the client as |  |  |  |  |  |  |
| Product Name:               | Fingertip Pulse Oximeter                                                               |  |  |  |  |  |  |
| Model No.(EUT):             | MD300C208                                                                              |  |  |  |  |  |  |
| Standards:                  | FCC Rules 47 CFR §2.1093                                                               |  |  |  |  |  |  |
|                             | KDB447498 D01 General RF Exposure Guidance                                             |  |  |  |  |  |  |
| Date of Receipt:            | July 31, 2014                                                                          |  |  |  |  |  |  |
| Date of Test:               | September 16, 2014                                                                     |  |  |  |  |  |  |
| Date of Issue:              | September 22, 2014                                                                     |  |  |  |  |  |  |
| Test Result:                | Pass*                                                                                  |  |  |  |  |  |  |

In the configuration tested, the EUT complied with the standards specified above.

E&E Section Manager

SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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### 2 Version

| Revision Record |         |                    |          |          |  |  |  |  |  |
|-----------------|---------|--------------------|----------|----------|--|--|--|--|--|
| Version         | Chapter | Date               | Modifier | Remark   |  |  |  |  |  |
| 00              | /       | September 22, 2014 | 1        | Original |  |  |  |  |  |
|                 |         |                    |          |          |  |  |  |  |  |
|                 |         |                    |          |          |  |  |  |  |  |
|                 |         |                    |          |          |  |  |  |  |  |
|                 |         |                    |          |          |  |  |  |  |  |

| Authorized for issue by: |            |           |
|--------------------------|------------|-----------|
| Engineer                 | Eddy Zong  | Eddy Zong |
|                          | Print Name |           |
| Clerk                    | Susie Liu  | Suire Liu |
|                          | Print Name |           |
| Reviewer                 |            | Kony. en  |
| neviewei                 | Keny Xu    | V         |
|                          | Print Name |           |



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# 4 General Information

### 4.1 Client Information

Applicant: Beijing Choice Electronic Technology Co., Ltd

Address of Applicant: Room 320, West Building 4, No.83 Fuxing Road, 100039 Beijing,

P.R.China

Manufacturer: Beijing Choice Electronic Technology Co., Ltd

Address of Manufacturer: Room 320, West Building 4, No.83 Fuxing Road, 100039 Beijing,

P.R.China

Factory: Beijing Choice Electronic Technology Co., Ltd

Address of Factory: North Building 3F, No.9 Shuangyuan Road, Badachu Hi-tech Zone,

100041Beijing, P.R.China

## 4.2 General Description of E.U.T.

Product Description: Portable product

Power Supply: DC 3V 2\*AAA Batteries

#### 4.3 Details of E.U.T.

Operation Frequency: 2402MHz-2480MHz
Bluetooth Version: 4.0 Single mode

Modulation Type: GFSK Number of Channel: 40

Antenna Type Chip Antenna



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#### 4.4 Test Location

All tests were performed at SGS E&E EMC lab SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2017-07-14.

#### FCC – Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

#### Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

#### VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.



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### 5 Test Standards and Limits

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in KDB447498 D01 section 4.3.1 must be applied to determine SAR test exclusion.

| MHz  | 5  | 10 | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | mm      |
|------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| 150  | 39 | 77 | 116 | 155 | 194 | 232 | 271 | 310 | 349 | 387 |         |
| 300  | 27 | 55 | 82  | 110 | 137 | 164 | 192 | 219 | 246 | 274 |         |
| 450  | 22 | 45 | 67  | 89  | 112 | 134 | 157 | 179 | 201 | 224 |         |
| 835  | 16 | 33 | 49  | 66  | 82  | 98  | 115 | 131 | 148 | 164 |         |
| 900  | 16 | 32 | 47  | 63  | 79  | 95  | 111 | 126 | 142 | 158 |         |
| 1500 | 12 | 24 | 37  | 49  | 61  | 73  | 86  | 98  | 110 | 122 | (mW)    |
| 1900 | 11 | 22 | 33  | 44  | 54  | 65  | 76  | 87  | 98  | 109 | (11100) |
| 2450 | 10 | 19 | 29  | 38  | 48  | 57  | 67  | 77  | 86  | 96  |         |
| 3600 | 8  | 16 | 24  | 32  | 40  | 47  | 55  | 63  | 71  | 79  |         |
| 5200 | 7  | 13 | 20  | 26  | 33  | 39  | 46  | 53  | 59  | 66  |         |
| 5400 | 6  | 13 | 19  | 26  | 32  | 39  | 45  | 52  | 58  | 65  |         |
| 5800 | 6  | 12 | 19  | 25  | 31  | 37  | 44  | 50  | 56  | 62  |         |



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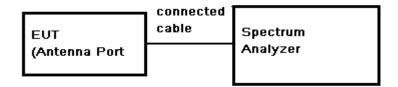
### 6 Measurement and Calculation

### 6.1 Maximum transmit power

**EUT Operation:** Test in fixing frequency operating mode at lowest, middle and highest

frequency.

**Test Configuration:** 



#### **Test Data:**

| Test mode | Channel | Reading<br>Power (dBm) | Cable<br>Loss (dB) | Output<br>Power<br>(dBm) | Output Peak<br>Power (mW) | Peak Power<br>Limit (dBm) | Result |
|-----------|---------|------------------------|--------------------|--------------------------|---------------------------|---------------------------|--------|
| GFSK      | Low     | -7.85                  | 0.5                | -7.35                    | 0.18                      | 30                        | PASS   |
|           | Mid     | -7.69                  | 0.5                | -7.19                    | 0.19                      | 30                        | PASS   |
|           | High    | -7.32                  | 0.5                | -6.82                    | 0.21                      | 30                        | PASS   |

#### 6.2 MPE Calculation

The Max Conducted Peak Output Power is is 0.21mW in High channel. The best case gain of the antenna is 0dBi. 0dBi logarithmic terms convert to numeric result is nearly 1.00

According to the formula. calculate the EIRP test result:

EIRP= P x G =  $0.21 \text{ mW} \times 1.00 = 0.21 \text{mW} < 10 \text{mW}$ 

So the SAR report is not required.

### 7 EUT Constructional Details

Refer to the < MD300C208 \_External Photos > & < MD300C208 \_Internal Photos>.

-- End of the Report--