



No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053

Fax: +86 (0) 755 2671 0594

Email: ee.shenzhen@sgs.com

Report No.: SZEM150600307803

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## SAR Evaluation Report

|                  |  |
|------------------|--|
| Application No.: | SZEM1506003078CR   |
| Applicant:       | Million Concept electronic(Shenzhen) Co., Ltd  |
| Product Name:    | Physical Activity Belt   |
| Model No.(EUT):  | MZ-3   |
| Trade Mark:      | Myzone   |
| FCC ID:          | OVJMZ-3  |
| Standards:       | 47 CFR Part 1.1307 (2014)<br>47 CFR Part 2.1093 (2014)<br>KDB447498D01 General RF Exposure Guidance v05r02 |
| Date of Receipt: | 2015-07-20   |
| Date of Test:    | 2015-07-21 to 2015-08-03   |
| Date of Issue:   | 2015-08-10   |

|               |       |
|---------------|-------|
| Test Result : | PASS* |
|---------------|-------|

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

Authorized Signature:



Jack Zhang  
EMC Laboratory Manager

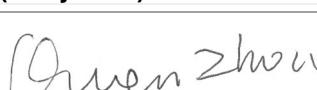
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## 2 Version

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 00              |         | 2015-08-10 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |   |            |
|--------------------------|--|---|------------|
| Authorized for issue by: |  |   |            |
|                          |  |    | 2015-08-03 |
| Tested By                |  | (Eric Fu) /Project Engineer   | Date       |
|                          |  |  | 2015-08-10 |
| Prepared By              |  | (Hedy Wen) /Clerk   | Date       |
|                          |  |  | 2015-08-10 |
| Checked By               |  | (Owen Zhou) /Reviewer   | Date       |

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## 4 General Information

### 4.1 Client Information

|                       |   |
|-----------------------|---|
| Applicant:            | Million Concept electronic(Shenzhen) Co., Ltd   |
| Address of Applicant: | No.98, Xiashanmen Road, Songgang Town, Baoan District, Shenzhen City 518105, Guangdong, China |

### 4.2 General Description of EUT

|                       |                                 |
|-----------------------|---------------------------------|
| Product Name:         | Physical Activity Belt          |
| Model No.:            | MZ-3                            |
| Trade Mark:           | Myzone                          |
| Operation Frequency:  | BT:2402~2480MHz<br>ANT+:2479MHz |
| Bluetooth Version:    | BT 4.0 Single mode              |
| Modulation Type:      | GFSK                            |
| Number of Channel:    | 40                              |
| Test Power Grade:     | ClassII (manufacturer declare ) |
| Test Software of EUT: | nRFgo studio                    |
| Antenna Type:         | Integral                        |
| Antenna Gain:         | 2dBi                            |
| Battery:              | 3.7V/240mAh                     |
| Power Supply:         | Charge by USB 5V                |

### 4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China  
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

## **4.4 Test Facility**

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab 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.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2.

## **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 v05r02

##### 4.3.1. 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:

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

$f(\text{GHz})$  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**

For BT & ANT+

The Max Conducted Peak Output Power is 5.53dBm in lowest channel(2.402GHz);

The best case gain of the antenna is 2dBi.

EIRP=5.53dBm + 2dBi = 7.53dBm

2.80dBm logarithmic terms convert to numeric result is nearly 5.662mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure =  $(5.662\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}} = 1.755$  ①

SAR requirement:

S= 3.0 ② ;

① < ②.

So the SAR report is not required.