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Report No.: SZEM180700646902 Page: 1 of 7

## **SAR Evaluation Report**

Application No.:	SZEM1807006469CR
Applicant:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Applicant:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Manufacturer:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Factory:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Factory:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Equipment Under Test (EUT	):
EUT Name:	Smart Bracelet
Model No.:	ID128Color HR
FCC ID:	2AHFT624
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2018-07-20
Date of Test:	2018-07-25 to 2018-08-02
Date of Issue:	2018-08-09
Test Result :	PASS*

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



EMC Laboratory Manager

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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Report No.: SZEM180700646902 Page: 2 of 7

## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2018-08-09		Original

Authorized for issue by:		
	Pertur. Comog	
	Potor Cong /Project Engineer	-
	Peter Geng /Project Engineer	
	Evic Fu	
	Eric Fu /Reviewer	-

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Report No.: SZEM180700646902 Page: 3 of 7

## 3 Contents

Page
------

1	COV	ER PAGE	1
2	VER	SION	2
3	CON	ITENTS	3
4	GEN	IERAL INFORMATION	4
	4.1	GENERAL DESCRIPTION OF EUT	4
	4.2	TEST LOCATION	5
	4.3	TEST FACILITY	
	4.4	DEVIATION FROM STANDARDS	
	4.5	ABNORMALITIES FROM STANDARD CONDITIONS	
	4.6	OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
5	SAR	EVALUATION	7
	5.1	RF EXPOSURE COMPLIANCE REQUIREMENT	7
	5.1.1		
	5.1.2	2 Limits	7
	5.1.3	3 EUT RF Exposure	7



Report No.: SZEM180700646902 Page: 4 of 7

## 4 General Information

### 4.1 General Description of EUT

Power supply:	DC 3.8V rechargeable battery which charged from USB port
Bluetooth Version:	4.0 BLE
Operation Frequency	2402MHz to 2480MHz
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40
Antenna Gain	-4.96dBi
Antenna Type	FPC antenna

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Report No.: SZEM180700646902 Page: 5 of 7

### 4.2 Test Location

All tests were performed at:

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

### 4.3 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.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



Report No.: SZEM180700646902 Page: 6 of 7

### 4.4 Deviation from Standards

None.

## 4.5 Abnormalities from Standard Conditions

None.

### 4.6 Other Information Requested by the Customer

None.

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Report No.: SZEM180700646902 Page: 7 of 7

## 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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:

[(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  $\leq$  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 < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up toleranc 1.36 dBm on the lowest channe 2.402 GHz (\*) 1.36 dBm logarithmic terms convert to numeric result is nearly 1.37 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = (Max. Power of channel, including tune-up tolerance, mathematical states and the second states and the second states and the second states are second states and the second states are second states and the second states are second states a	$W) * \sqrt{f(GHz)}$
(min. test separation distance,mm)	
General RF Exposure = (1.37 mW / 5 mm) x $\sqrt{2.402}$ GHz = 0.42	(1)
SAR requirement:	
<i>S</i> = <i>3.0</i>	(2)
(1) < (2)	
So the SAR report is not required.	

(\*) Max. power refer to Report No.:SZEM180700646901

- End of the Report -

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