RF Exposure Evaluation Report

Application No.:	SZEM2012013549CR
Applicant:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Applicant:	Floor 11, Building 3, Changyi Industrial Factory, No.1 Lirong Road, Xinshi Community, Dalang Sub-district, Longhua District, Shenzhen City, China
Manufacturer:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Manufacturer:	Floor 11, Building 3, Changyi Industrial Factory, No.1 Lirong Road, Xinshi Community, Dalang Sub-district, Longhua District, Shenzhen City, China
Factory:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Factory:	Floor 11, Building 3, Changyi Industrial Factory, No.1 Lirong Road, Xinshi Community, Dalang Sub-district, Longhua District, Shenzhen City, China
Equipment Under Test (EUT):	
Product Name:	Smart Watch
Model No.:	ID206 ♣
♣	Please refer to section 3 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	IDO
Standards:	EN 50663:2017
Date of Receipt:	2020-12-30
Date of Test:	2021-01-07 to 2021-01-11
Date of Issue:	2021-01-11
Test Result:	**PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny Xu
EMC Laboratory Manager

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2021-01-11		Original

Authorized for issue by:				
		Bill Chen		
		Bill Chen/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		

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3 General Information of EUT

Power supply:	Rechargeable battery: DC 3.8V 300mAh（Charged by USB）
Cable(s):	USB cable:60cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 LE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	0.09dBi
EIRP:	-1.81dBm(0.66mW)*
*	The EIRP data refer to the report SZEM201201354902.

Remark:

Model No.: ID206

There are two kinds of samples for the above model.

Only the sample 1 was tested, since according to the declaration of the applicant, the electrical circuit design, PCB layout, components used and internal wiring were identical for the above model, with only difference on display screen.

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

3.1 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.

3.2 Test Facility

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

• **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.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0006.
IC#: 4620C.

3.3 Deviation from Standards

None.

3.4 Abnormalities from Standard Conditions

None.

3.5 Other Information Requested by the Customer

None.

4 EN 50663 REQUIREMENT

4.1 General Description of Applied Standards

Assessment of the compliance of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz to 300 GHz)

4.2 Human exposure to the Electromagnetic fields

This European Standard provides simple conformity assessment methods for low-power electronic and electrical equipment operating at frequencies between 10 MHz and 300 GHz to an electromagnetic field (EMF) exposure limit. If such equipment cannot be shown to comply with the applicable EMF exposure requirements using the exposure assessment methods in this standard, then other EMF product standards may be used for conformity assessment.

4.3 RF Exposure Evaluation

4.3.1 Limit

According to EN 50663 clause 6 and EN 62479 clause 4.2 Low-power electronic and electrical equipment is deemed to comply with the provisions of thisstandard if it can be demonstrated using routes B, C or D that the available antenna powerand/or the average total radiated power is less than or equal to the applicable low-power exclusion level Pmax.

P max = 20 mW (13 dBm) according to ICNIRP guidelines, since the EUT is General public used.

Remark:

B: The input power level to electrical or electronic components that are capable of radiating electromagnetic energy in the relevant frequency range is so low that the available antenna power and/or the average total radiated power cannot exceed the low-power exclusion level defined in EN 62479 clause 4.2

C: The available antenna power and/or the average total radiated power are limited by product standards for transmitters to levels below the low-power exclusion level defined in EN 62479 clause 4.2

D: Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in EN 62479 clauses 4.2.

4.3.2 Test Result

The EIRP of the EUT is -1.81dBm(0.66mW) which is below the max permitted sending level of 20 mW, and then the EUT is deemed to comply with the RF exposure requirement.

5 EUT Photos

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM2012013549CR.

- End of the Report -