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Report Template Version: V04

Report Template Revision Date: 2018-07-06

RF Exposure Evaluation Report

Report No.: CQASZ20210901593E-03
Applicant: Shenzhen DO Intelligent Technology Co., Ltd
Address of Applicant: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Smart Watch
Test Model No.: GT01 Pro
Model No.: GT01 Pro
Brand Name: IDO
FCC ID: 2AHFT439
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2021-09-14
Date of Test: 2021-09-14 to 2021-10-15
Date of Issue: 2021-11-01
Test Result: **PASS***

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

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Rock Huang
(Rock Huang)

Approved By: Jack ai
(Jack ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210901593E-03	Rev.01	Initial report	2021-11-01

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3 General Information

3.1 Client Information

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

3.2 General Description of EUT

Product Name:	Smart Watch
Model No.:	GT01 Pro
Test Model No	GT01 Pro
Trade Mark:	IDO
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz
Hardware Version:	V1.4
Software Version:	V1.01.02
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
EUT Power Supply:	Li-ion battery: DC 3.85V 300mAh, Charge by DC 5V for adapter

3.3 General Description of BT&BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.1
Modulation Technique:	BT:Frequency Hopping Spread Spectrum(FHSS) BLE:Non Frequency Hopping Spread Spectrum(NFHSS)
Modulation Type:	BT:GFSK, $\pi/4$ DQPSK, 8DPSK BLE:GFSK
Number of Channel:	BT:79 BLE:40
Transfer Rate:	BT:1Mbps/2Mbps/3Mbps BLE:1Mbps/2Mbps
Hopping Channel Type:	BT:Adaptive Frequency Hopping systems
Test Software of EUT:	RF Test
Antenna Type:	FPC antenna
Antenna Gain:	BT&BLE -2.7dBi

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

4.1.2 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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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

4.1.3 EUT RF Exposure

1) For BT

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-2.210	-2.0±1	-1.0	0.794
Middle(2441MHz)	-1.770	-1.5±1	-0.5	0.891
Highest(2480MHz)	-1.560	-1.5±1	-0.5	0.891
$\pi/4$ DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-3.050	-3.0±1	-2.0	0.631
Middle(2441MHz)	-1.680	-1.5±1	-0.5	0.891
Highest(2480MHz)	-3.870	-4.0±1	-3.0	0.501
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-4.160	-4.0±1	-3.0	0.501
Middle(2441MHz)	-3.820	-4.0±1	-3.0	0.501
Highest(2480MHz)	-2.310	-2.0±1	-1.0	0.794

Worst case: GFSK mode						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-2.210	-2.0±1	-1.0	0.794	0.246	3.0
Middle (2441MHz)	-1.770	-1.5±1	-0.5	0.891	0.278	
Highest (2480MHz)	-1.560	-1.5±1	-0.5	0.891	0.281	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210901593E-01

2) For BLE

Measurement Data

GFSK(1Mbps) mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.56	3.5±1	4.5	2.818
Middle(2440MHz)	4.43	4.5±1	5.5	3.548
Highest(2480MHz)	5.11	5.0±1	6.0	3.981
GFSK(2Mbps) mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.61	3.5±1	4.5	2.818
Middle(2440MHz)	4.44	4.5±1	5.5	3.548
Highest(2480MHz)	5.16	5.0±1	6.0	3.981

Worst case: GFSK(2Mps) mode						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	3.61	3.5±1	4.5	2.818	0.874	3.0
Middle (2440MHz)	4.44	4.5±1	5.5	3.548	1.109	
Highest (2480MHz)	5.16	5.0±1	6.0	3.981	1.254	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210901593E-02
BDR and BLE can not simultaneous transmitting at same time.