

# RF Exposure Report

FCC ID:2BL9R-DC-2

**Report No.** : SSP24110025-2E

**Applicant** : Foshan ShangpinNetwork Technology Co.,Ltd.

**Product Name** : Motion Sensor

**Model Name** : DC-2

**Test Standard** : FCC CFR 47 PART 1.1307(b)

**Date of Issue** : 2024-11-15



**Shenzhen CCUT Quality Technology Co., Ltd.**

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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permission by Shenzhen CCUT Quality Technology Co., Ltd.

**Test Report Basic Information**

**Applicant**.....: Foshan ShangpinNetwork Technology Co.,Ltd.  
Address of Applicant.....: 6F LuHUA Building, Zhuangcha Street, Chuanchen District, Foshan City, China

**Manufacturer**.....: Foshan ShangpinNetwork Technology Co.,Ltd.  
Address of Manufacturer .....: 6F LuHUA Building, Zhuangcha Street, Chuanchen District, Foshan City, China

**Product Name**.....: Motion Sensor

**Brand Name**.....: -

**Main Model**.....: DC-2

**Series Models**.....: -

FCC CFR 47 PART 1.1307(b)

**Test Standard**.....: KDB 447498 D01 v06

**Date of Test** .....: 2024-11-05 to 2024-11-15

**Test Result**.....: PASS

**Tested By** .....: Coke Huang (Coke Huang)

**Reviewed By**.....: Lieber Ouyang (Lieber Ouyang)

**Authorized Signatory**.....: Lahm Peng (Lahm Peng)



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### Revision History

Revision	Issue Date	Description	Revised By
V1.0	2024-11-15	Initial Release	Lahm Peng

## 1. General Information

### 1.1 Product Information

Product Name:	Motion Sensor
Trade Name:	-
Main Model:	DC-2
Series Models:	-
Rated Voltage:	DC 5V by USB or DC1.5V by AAA battery*3
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer.	

Wireless Specification	
Wireless Standard:	433.92MHz
Operating Frequency:	81.60dBuV/m
Antenna Gain:	0dBi
Type of Antenna:	Integral Antenna
Type of Device:	<input type="checkbox"/> Portable Device <input checked="" type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device

### 1.2 Test Facilities

Laboratory Name:	<b>Shenzhen CCUT Quality Technology Co., Ltd.</b> 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6893.01
FCC Registration No.:	583813
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

## 2. RF Exposure

### 2.1 Standard and Limit

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

#### Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

Friis transmission formula:  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>,  $P_{out}$  = output power to antenna in mW;

$G$  = gain of antenna in linear scale,  $\pi = 3.1416$ ;

$r$  = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance  $r$  where the MPE limit is reached.

#### Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

## 2.2 Test Data and Results

Mode	Output power to antenna (dBm)	Tune-up Power(dBm)	Max Tune-up Power(dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Result
433.92	-13.6	-13( $\pm 1$ )	-12	0.06	0.00001	1.0	PASS

Notes: 81.60dBuV/m-95.2=-13.6dBm

Remark: antenna gain=0dBi