

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 permitted 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:	-
Test Standard:	FCC CFR 47 PART 1.1307(b) KDB 447498 D01 v06
Date of Test:	2024-11-05 to 2024-11-15
Test Result:	PASS
Tested By	<u>Coke Huang</u> (Coke Huang)
Reviewed By:	<u>Lieber Ouyang</u> (Lieber Ouyang)
Authorized Signatory:	<u>Lahm Peng</u> (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:	☐ Portable Device ☒ Mobile Device ☐ Modular Device

1.2 Test Facilities

Laboratory Name:	Shenzhen CCUT Quality Technology Co., Ltd. 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 ²)	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 ²)	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 ²)	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/cm², 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/cm². 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(±1)	-12	0.06	0.00001	1.0	PASS

Notes: $81.60\text{dBuV/m} - 95.2 = -13.6\text{dBm}$

Remark: antenna gain=0dBi