



FCC RF EXPOSURE REPORT

Applicant	:	IC Realtime LLC
Address	:	3050 N. Andrews AVE EXT, Pompano Beach, Florida, United States, 33064
Equipment	:	Doorsiren
Model No.	:	SINGER-3W, SINGER-3B
Trade Name	:	N/A
Date of Sample Receipt	:	Jul. 06, 2022
Date(s) of Test	:	Jul. 22, 2026~Jul. 27, 2026
FCC ID.	:	2ARDU-SINGER-3

I HEREBY CERTIFY THAT:

The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Leevin Li / Supervisor



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History of this test report

Version No.	Report No	Date	Description
Rev.01	26070024-DRFCC03	Jul. 28, 2026	Initial Issue



1. Test Configuration of Equipment under Test

1.1 Feature of Equipment

Equipment	Doorsiren
Model Name	SINGER-3W, SINGER-3B
Model Discrepancy	The models are identical to each other except for model name and appearance color. SINGER-3W is the representative for the final test.
Frequency Range	BLE/ Wi-Fi 2.4GHz: 2400-2483.5MHz
Modulation Type	BLE: GFSK Wi-Fi 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Data Rate	BLE: GFSK: 1Mbps Wi-Fi 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0-MCS7, HT20 802.11ax: MCS0-MCS11, HE20
EUT Power Rating	100-240V~ 0.5A

Note:

1. 802.11ax only support full RU.
2. For more details, please refer to the User's manual of the EUT.

**1.2 General Information of Test**

Test Site	Cerpass Technology Corporation(Cerpass Laboratory) Address: Room 102, No. 5, Xing'an Road, Chang'an Town, Dongguan City, Guangdong Province, China Tel: +86-769-8547-1212 Fax: +86-769-8547-1912
FCC Designation No.:	CN1288
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.



2. Radio Frequency Exposure

Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation)
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm ²) ☒ General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Evaluation applied	☒ MPE Evaluation* ☐ SAR Evaluation ☐ N/A

TEST RESULTS

No non-compliance noted.

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where E = Field strength in Volts / meter
 P = Power in Watts
 G = Numeric antenna gain
 d = Distance in meters
 S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770 d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where d = Distance in cm
 P = Power in mW
 G = Numeric antenna gain
 S = Power density in mW / cm²

**Maximum Permissible Exposure****Bluetooth**

Test Mode	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
Bluetooth LE	2402-2480	7.460	9.460	2.66	20	0.003	1

Wlan

Test Mode	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2.4G	2412-2462	25.94	27.94	2.66	20	0.228	1

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