FCC RF EXPOSURE REPORT

Applicant	:	SHENZHEN Hitevision Technology Co., Ltd.
Address	:	Honghe Mansion No. 1 Building A,1 Danzi North Road, Shatian, Kengzi Street, Pingshan District, Shenzhen
Equipment	:	EDLA Android OPS Computer
Model No.	:	WB55860W
Trade Name	:	newline
FCC ID.	:	2ACYT-RK3566

I HEREBY CERTIFY THAT:

The sample was received on Oct. 12, 2023 and the testing was completed on Nov. 01, 2023 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Leevin Li / Supervisor

Contents

History of this test report

Version No.	Report No	Date	Description
Rev.01	DEFJ2310054	Nov. 06, 2023	Initial Issue

1. Test Configuration of Equipment under Test

1.1 Feature of Equipment

Equipment	EDLA Android OPS Computer
Model Name	WB55860W
Model Discrepancy	N/A
Chipset	RTL8852BU
Frequency Range	BT/BLE/ WIFI 2.4G: 2400MHz-2483.5MHz WIFI 5G: 5150MHz-5250MHz, 5725MHz -5850MHz
Modulation Type	BT: GFSK, π/4-DQPSK, 8DPSK BLE: GFSK 2.4GHz 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz 802.11a/n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Data Rate	BT: GFSK:1Mbps, π/4-DQPSK: 2Mbps, 8DPSK:3Mbps BLE: GFSK: 1Mbps, 2Mbps WIFI 2.4GHz: 802.11b: 1, 2 ,5.5,11Mbps 802.11g: 6,9,12,18,24,36,48,54Mbps 802.11n: MCS0-MCS15, HT20/HT40 802.11ax: MCS0-MCS11, HE20/HE40 WIFI 5GHz: 802.11a: 6,9,12,18,24,36,48,54Mbps 802.11n: MCS0-MCS15, HT20/HT40 802.11ac: MCS0-MCS9, VHT20/40/80 802.11ax: MCS0-MCS11, HE20/HE40/HE80
Antenna Type	Dipole Antenna
Antenna Gain	BT/BLE: 4.19dbi WiFi2.4GHz: Antenna A:4.19dbi; Antenna B:4.19dbi WiFi 5GHz BAND1: Antenna A: 4.26dbi; Antenna B:4.26dbi BAND4: Antenna A:4.46dbi; Antenna B:4.46dbi
Working Temperature	0°C to 40°C
Operating Voltage	DC 12V from Adapter

Note: For a more detailed features description, please refer to the manufacturer's specifications or the

User's Manual.

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 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 9kHz 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　$E = \dfrac{\sqrt{30 \times P \times G}}{d}$　&　$S = \dfrac{E^2}{3770}$

　　　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 (mW) = P (W) / 1000 and
　　　d (cm) = d(m) /100

Yields

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

　　　Where　*d = Distance in cm*
　　　　　　P = Power in mW
　　　　　　G = Numeric antenna gain
　　　　　　S = Power density in mW / cm^2

Maximum Permissible Exposure

Bluetooth

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm2)	Limit (mW/cm2)
2402-2480	10.7	12.7	4.19	20	0.010	1

Wlan

ANT A

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm2)
2412-2462	16.94	18.94	4.19	20	0.041
5150-5250	10.49	12.49	4.26	20	0.009
5725-5850	13.27	15.27	4.46	20	0.019

ANT B

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm2)
2412-2462	16.31	18.31	4.19	20	0.035
5150-5250	11.28	13.28	4.26	20	0.011
5725-5850	13.35	15.35	4.46	20	0.019

The sum of the ratios of the spatially averaged results to the applicable frequency dependent MPE limits :

Simultaneous transmission mode	The sum of the ratios	Result
ANT A+ANT B	0.041/1+0.035/1	0.076＜1

Maximum Permissible Exposure (Co-location)

the sum of the ratios of the spatially averaged results to the applicable frequency dependent MPE limits :

Simultaneous transmission mode	The sum of the ratios	Result
Bluetooth +WLAN	0.010/1+0.041/1+0.035/1	0.086＜1

Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----------------------End of the report ----------------------