FCC TEST REPORT

FCC ID: 2AVFX-DUOMN350

Product	:	WiFi Radio
Model Name	:	PR6N(MN350)
Additional model	:	PR4N(MN300)
Brand	:	Nakiradio
Report No.	:	PTC21051301601E-FC03

Prepared for

HUIZHOU LEMEDIA TECHNOLOGY CO.,LTD

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	:	HUIZHOU LEMEDIA TECHNOLOGY CO.,LTD
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Manufacture's name	:	HUIZHOU LEMEDIA TECHNOLOGY CO.,LTD
Address	:	No.120 Shuidian Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China 516123
Product name	:	WiFi Radio
Model name	:	PR6N(MN350), PR4N(MN300)
Test procedure		KDB 447498 D01 General RF Exposure Guidance v06
Test Date	:	Jun. 16, 2021 to Jun. 22, 2021
Date of Issue	:	Jun. 22, 2021
Test Result	:	Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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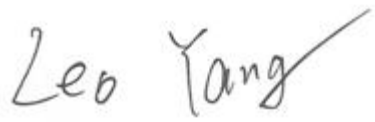
Test Engineer:



Leo Yang / Engineer

Technical Manager:

Chris Du / Manager

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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		

3 General Information

3.1 General Description of E.U.T.

Product Name	:	WiFi Radio
Model Name	:	PR6N(MN350)
Additional model		PR4N(MN300)
Specification		Wifi:802.11b/g/n HT20 Bluetooth 4.2
Operating frequency	:	WiFi: 802.11b/g/n HT20: 2412-2462MHz Bluetooth:2402-2480MHz
Max. RF output power	:	WiFi: 17.426dBm Bluetooth: -1.34dBm
Type of Modulation	:	WiFi: DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; Bluetooth: GFSK, Pi/4 DQPSK,8DPSK
Antenna installation:	:	PCB antenna
Antenna Gain:	:	2.5 dBi
Power supply	:	DC5V, 2A Power by AC adapter ;Adapter model:GQ12-050200-ZU
Adapter	:	Input:100-240V~, 0.4A, 50-60Hz ;Output : DC5V, 2A, 10W max 6V (AA*4battery)

4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

4.3 MPE Calculation Method

E (V/m) = $\frac{\sqrt{30 \times P \times G}}{d}$ Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd = $\frac{30 \times P \times G}{377 \times d^2}$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (W)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
WIFI	1.78	17.426	0.0553	0.0196	1	Pass
BT	1.78	-1.34	0.000735	0.0026	1	Pass

NOTE:2.4G BT+WIFI simultaneous (worst case):0.0196+0.0026=0.0222

******THE END REPORT******