



RF Exposure Evaluation Declaration

Report No.: YTC21113001-NJLZ-002-4

Report Version: V01

Issue Date: 01-10-2022

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FCC ID: 2AG7VDR600VX
Application Type: Certification
Product: Dual Band 11AC Wireless Module
Model No.: DR600VX, DR600VX-M
Trade Mark: /
FCC Classification: Digital Transmission System (DTS)
Unlicensed National Information Infrastructure (UNII)

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The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Revision History

Report No.	Version	Description	Issue Date
YTC21113001-NJLZ-002-4	Rev. 01	/	01-10-2022

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	Dual Band 11AC Wireless Module
Model Name:	DR600VX
Additional Model:	DR600VX-M
Input Voltage Range:	DC 3.3V
Wi-Fi Specification:	2.4G:802.11b/g/n-HT20/ n-HT40 5G:802.11a/n-HT20/ n-HT40/ac-VHT20/ac-VHT40/ac-VHT80
Antenna Type:	Dual band Dipole Antenna
Antenna Gain:	2dBi
CDD Directional Gain:	5dBi

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: 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)

TABLE 1 TO §1.1310(E)(1)—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)
(i) Limits for Occupational/Controlled Exposure				
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
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) 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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Calculation 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

π = 3.1416

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

P_d is the limit of MPE, 1mW/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.

2.2. Test Result of RF Exposure Evaluation

Product	Dual Band 11AC Wireless Module
Test Item	RF Exposure Evaluation

Test Mode	Frequency Band (MHz)	Maximum PK Output Power (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)
WIFI	2402 ~ 2480 5150 ~ 5250 5750 ~ 5850	17.6	0.036	1
Note: /				

CONCLUSION:

The Max Power Density at R (20 cm) = 0.036mW/cm² < 1mW/cm².

So the EUT complies with the requirement.

_____ The End _____