

## RF Exposure Report

**Report No.:** SABBQZ-WTW-P20120983

**FCC ID:** PY321100533

**Test Model:** WAX206

**Received Date:** Dec. 30, 2020

**Test Date:** Jan. 15 ~ May 21, 2021

**Issued Date:** May 27, 2021

**Applicant and  
Manufacturer:** NETGEAR, Inc.

**Address:** 350 East Plumeria Drive San Jose, CA 95134

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, TAIWAN

**FCC Registration /  
Designation Number:** 788550 / TW0003



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### Release Control Record

Issue No.	Description	Date Issued
SABBQZ-WTW-P20120983	Original Release	May 27, 2021

## 1 Certificate of Conformity

**Product:** NETGEAR WiFi 6 AX3200 Dual Band Access Point

**Brand:** NETGEAR

**Test Model:** WAX206

**Sample Status:** Engineering Sample

**Applicant:** NETGEAR, Inc.

**Test Date:** Jan. 15 ~ May 21, 2021

**Standards:** FCC Part 2 (Section 2.1091)

**References Test Guidance:** KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Lena Wang , **Date:** May 27, 2021  
Lena Wang / Specialist

**Approved by :** Dylan Chiou , **Date:** May 27, 2021  
Dylan Chiou / Senior Project Engineer

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 26 cm away from the body of the user.  
So, this device is classified as **Mobile Device**.

### 3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
CDD Mode					
2412-2462	29.03	6.81	26	0.452	1
5180-5240	28.97	6.85	26	0.450	1
5745-5825	29.14	7.02	26	0.486	1
Beamforming Mode					
2412-2462	28.47	6.81	26	0.397	1
5180-5240	28.97	6.85	26	0.450	1
5745-5825	28.89	7.02	26	0.459	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2412-2462MHz: Directional gain = 6.81 dBi

5180-5240MHz: Directional gain = 6.85 dBi

5745-5825MHz: Directional gain = 7.02 dBi

#### Conclusion:

Both of the WLAN 2.4G & WLAN 5G can transmit simultaneously, the formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

$$2.4G + 5G = 0.452 / 1 + 0.486 / 1 = 0.938$$

Therefore the maximum calculations of above situations are less than the "1" limit.

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