RF Exposure Report

Report No.:	SABBQZ-WTW-P21020623
FCC ID:	PY321100520
Test Model:	WAX630
Received Date:	Mar. 05, 2021
Test Date:	Mar. 10 ~ Apr. 23, 2021
Issued Date:	May 04, 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

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SABBQZ-WTW-P21020623	Original Release	May 04, 2021

1 Certificate of Conformity

Product:	NETGEAR® Insight Managed WiFi 6 AX6000 Tri-band Multi-Gig Access Point
Brand:	NETGEAR
Test Model:	WAX630
Sample Status:	Engineering Sample
Applicant:	NETGEAR, Inc.
Test Date:	Mar. 10 ~ Apr. 23, 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 : Gina Liu , **Date:** May 04, 2021

Gina Liu / Specialist

Approved by : , **Date:** May 04, 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^2)	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

$Pd = (Pout*G) / (4*pi*r^2)$
where
Pd = power density in mW/cm^2
Pout = 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 24 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^2)	Limit (mW/cm^2)
CDD Mode					
2412-2462	29.83	5.85	24	0.511	1
5180-5240	29.11	5.91	24	0.439	1
5745-5825	29.24	5.86	24	0.447	1
Beamforming Mode					
2412-2462	29.82	5.85	24	0.510	1
5180-5240	29.11	5.91	24	0.439	1
5745-5825	29.24	5.86	24	0.447	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2412-2462MHz: Directional gain = 5.85dBi

5180-5240MHz: Directional gain = 5.91dBi

5745-5825MHz: Directional gain = 5.86dBi

Conclusion:

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

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

2.4G + 5G = 0.511 / 1 + 0.447 / 1 = 0.958

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

---END---