	<u>BUREAU</u> VERITAS
	RF Exposure Report
Report No.:	SA191129E09D
FCC ID:	PY319400470
Test Model:	RBR750
Series Model:	RBS750
Received Date:	May 08, 2020
Test Date:	May 08, 2020
Issued Date:	June 01, 2020
Applicant:	NETGEAR, Inc.
Address:	350 East Plumeria Drive, San Jose, CA 95134, USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / Designation Number:	723255 / TW2022

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	Release Control Record					
Issue No.	Description			Date Issued		
SA191129E09D	Original release.			June 01, 2020		
	200	Dago No. 2/6		Depart Format Varaian: 6.1.1		



1 Certificate of Conformity

Product:	Orbi Router, Orbi Satellite			
Brand:	NETGEAR			
Test Model:	RBR750			
Series Model:	RBS750			
Sample Status:	ENGINEERING SAMPLE			
Applicant:	NETGEAR, Inc.			
Test Date:	May 08, 2020			
Standards:	FCC Part 2 (Section 2.1091)			
	IEEE C95.3-2002			
References Test KDB 447498 D01 General RF Exposure Guidance v06 Guidance:				

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 EMC characteristics under the conditions specified in this report.

Prepared by :

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Joyce Kuo / Specialist

Approved by

, **Date:** June 01, 2020

Date:

June 01, 2020

Clark Lin / Technical Manager



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic FieldPower DensityStrength (A/m)(mW/cm²)		Average Time (minutes)		
Limits For General Population / Uncontrolled Exposure						
0.3-1.34	614	1.63	(100)*	30		
1.34-30	824/f	2.19/f	(180/f²)*	30		
30-300	27.5	0.073	0.2	30		
300-1500			f/1500	30		
1500-100,000			1.0	30		

f = Frequency in MHz ; *Plane-wave equivalent power density

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 30 cm away from the body of the user. So, this device is classified as **Mobile Device**.



2.4 Calculation Result

For 2 4GHz data was	copied from the ori	ainal test report (I	Report No.: RF191129E09)
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Operation Mode	Evaluation Frequency (MHz)	Max Avg. Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2.4GHz	2437	958.897	5.46	30	0.29807	1
WLAN 5GHz (U-NII-1)	5240	665.956	5.67	30	0.21727	1
WLAN 5GHz (U-NII-3)	5795	948.986	6.94	30	0.41477	1

NOTE:

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

Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz (low band) + WLAN 5GHz (high band) =0.29807 / 1 + 0.21727 / 1 + 0.41477 / 1 = 0.93011

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

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