	BUREAU Veritas
	RF Exposure Report
Report No.:	SA190715C12
FCC ID:	PY319200450
Test Model:	RBS10
Received Date:	Jul. 15, 2019
Test Date:	Jul. 20 ~ Jul. 25, 2019
Issued Date:	Jul. 26, 2019
Annlicant:	NETGEAR, INC.
	350 East Plumeria Drive San Jose, CA 95134
Address.	
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)
FCC Registration /	788550 / TW0003
Designation Number:	



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Release Control Record Description Issue No. Date Issued SA190715C12 Original release. Jul. 26, 2019



1	Certificate of Co	e of Conformity			
	Product:	Orbi Satellite			
	Brand:	NETGEAR			
	Test Model:	RBS10			
	Sample Status:	Engineering sample			
	Applicant:	NETGEAR, INC.			
	Test Date:	Jul. 20 ~ Jul. 25, 2019			
	Standards:	FCC Part 2 (Section 2.1091)			
		KDB 447498 D01 General RF Exposure Guidance v06			
		IEEE C95.3-2002			

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 : Pettie Chen / Senior Specialist Jul. 26, 2019

Approved by :

her., Date: Jul. 26, 2019

Bruce Chen / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)			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 20cm 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)	Mode	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN	CDD	27.42	4.55	20	0.313	1
2412~2462	Beamforming	27.42	4.55	20	0.313	1
WLAN	CDD	25.67	5.52	20	0.262	1
5180~5240	Beamforming	25.67	5.52	20	0.262	1
WLAN	CDD	25.69	6.89	20	0.360	1
5745~5825	Beamforming	25.69	6.89	20	0.360	1

Note:

1. Directional Gain:

2412~2462MHz Max. Directional Gain = 1.54dBi + 10log(2)= 4.55dBi 5180~5240MHz Max. Directional Gain = 2.51dBi + 10log(2)= 5.52dBi 5745~5825MHz Max. Directional Gain = 3.88dBi + 10log(2)= 6.89dBi

2. 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 2.4G+5G = 0.313 / 1 + 0.360 / 1 = 0.673 < 1

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