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	RF Exposure Report
Report No.:	SA120524E01G
FCC ID:	PY312200202
Test Model:	WNDAP620
Received Date:	May 24, 2012
Test Date:	May 31 to June 01, 2012 and Sep. 21, 2015
Issued Date:	Sep. 30, 2015
Applicant:	Netgear Incorporated.
Address:	350 East Plumeria Drive San Jose California United States 95134
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan R.O.C.
Test Location (1):	No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan R.O.C.
Test Location (2):	No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan R.O.C.
Test Location (3):	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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Table of Contents

Relea	ase Control Record	. 3
1	Certificate of Conformity	. 4
2	RF Exposure	
	Limits for Maximum Permissible Exposure (MPE)	
2.2 2.3	Classification	. 5
2.4	Antenna Gain	. 6
3	Calculation Result of Maximum Conducted Power	. 7



Release Control Record					
Issue No.	Description			Date Issued	
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1 Certificate of Conformity

Product:	ProSafe 3x3 Single Radio, Dual Band Wireless-N Access Point		
Brand:	Netgear		
Test Model:	WNDAP620		
Sample Status:	ENGINEERING SAMPLE		
Applicant:	Netgear Incorporated.		
Test Date:	May 31 to June 01, 2012 and Sep. 21, 2015		
Standards:	FCC Part 2 (Section 2.1091)		
	KDB 447498 D03		
	IEEE C95.1		

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 :		_, Date:	Sep. 30, 2015	
	Claire Kuan / Specialist			
Approved by :	\sim	_, Date:	Sep. 30, 2015	
	May Chen / Manager			



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)			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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



2.4 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

Internal Antenna (For 2.4GHz / 5GHz)								
Transmitter	Antenna	Peak Gain (dBi)						
Circuit	Туре	2.4GHz		5GHz Band 1		5GHz Band 4		
Chain (0)	Dipole	2.3	5	5.9		5.3		
Chain (1)	Dipole	2.3		5.9			4.9	
Chain (2)	Dipole	2.3		5			5.2	
External Anter	External Antenna (For 2.4GHz)							
Model	Antenna	Gain (dBi)	Ca	ble Loss	Net Gain (dBi)		
WOder	Туре	(Exclude cable loss)		(dB)	(Include cable loss)		Connecter Type	
ANT-32405	5 Dipole	5		3.68	1.32		SMA Plug Reverse	



Calculation Result of Maximum Conducted Power 3

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	587.684	7.07	20	0.59549	1
5180-5240	45.508	10.38	20	0.09881	1
5745-5825	140.777	9.91	20	0.27432	1

15.247 (2.4GHz) data was copied from the original test report (Report No.: SA120524E01)

NOTE:

2.4GHz: Directional gain = 2.3dBi + 10 log (3)= 7.07 dBi 5GHz (5150-5250MHz): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 3$] = 10.38dBi 5GHz (5725-5850MHz): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 3$] = 9.91dBi

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