

RF Exposure Report

Report No.: SA150925E07

FCC ID: PY315200316

Test Model: VMC3040

Received Date: Sep. 25, 2015

Test Date: Oct. 23, 2015

Issued Date: Nov. 02, 2015

Applicant: NETGEAR, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Release Control Record

Issue No.	Description	Date Issued
SA150925E07	Original release.	Nov. 02, 2015

1 Certificate of Conformity

Product: Arlo Q

Brand: NETGEAR

Test Model: VMC3040

Sample Status: ENGINEERING SAMPLE

Applicant: NETGEAR, Inc.

Test Date: Oct. 23, 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: Nov. 02, 2015
Elsie Hsu / Specialist

Approved by :  , Date: Nov. 02, 2015
May Chen / Manager

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

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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:

Antenna No.	Transmitter Circuit	Brand	Model	Antenna Gain (dBi) including cable loss	Antenna Type	Connector Type	Frequency range (GHz to GHz)
1	Chain (0)	Netgear	NA	0.91	PIFA	i-pex(MHF)	2.4~2.4835
				1.83			5.15~5.25
				1.91			5.25~5.35
				1.29			5.47~5.725
				2.12			5.725~5.85
2	Chain (1)	Netgear	NA	1.01	Monopole	i-pex(MHF)	2.4~2.4835
				1.12			5.15~5.25
				1.91			5.25~5.35
				2.18			5.47~5.725
				2.27			5.725~5.85

3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	562.159	3.97	20	0.27899	1
5180-5240	200.775	4.49	20	0.11232	1
5260-5320	196.592	4.92	20	0.03025	1
5500-5700	192.896	4.76	20	0.11483	1
5745-5825	182.872	5.21	20	0.12075	1

Note:

1. For 2412-2462MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 3.97\text{dBi}$
2. For 5150~5250MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 4.49\text{dBi}$
3. For 5250~5350MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 4.92\text{dBi}$
4. For 5470~5725MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 4.76\text{dBi}$

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