

RF Exposure Report

Report No.: SA160215C06

FCC ID: MSQ-RT1P00

Test Model: RT-N300 B1

Series Model: RT-N12+ B1, RT-N12+ V3

Received Date: Feb. 15, 2016

Test Date: Apr. 13 ~ Jun. 02, 2016

Issued Date: Jun. 03, 2016

Applicant: ASUSTek COMPUTER INC.

Address: 4F, No. 150 Li-Te Rd., Peitou, Taipei, Taiwan

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

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, TAIWAN (R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
SA160215C06	Original release	Jun. 03, 2016



1 Certificate of Conformity

Product: Wireless-N Router

Brand: ASUS

Test Model: RT-N300 B1

Series Model: RT-N12+ B1, RT-N12+ V3

Sample Status: Engineering sample

Applicant: ASUSTeK COMPUTER INC.

Test Date: Apr. 13 ~ Jun. 02, 2016

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 (October 23, 2015)

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: Jun. 03, 2016

Pettie Chen / Senior Specialist

Approved by : , **Date:** Jun. 03, 2016

Ken Liu / Senior 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

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

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

Max Power	Antenna Gain	Distance	Power Density	Limit
(dBm)	(dBi)	(cm)	(mW/cm ²)	(mW/cm ²)
24.90	6.43	20	0.270	1

Directional gain = $10 \log[(10^{G1/20 + 10^{G2/20 + ... + 10^{GN/20}})^2/2] = 6.43dBi$

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