



BUREAU
VERITAS

Test Report No.: FS150410N020

RF EXPOSURE REPORT

Applicant	ASUSTek COMPUTER INC.
Address	4F,NO. 150,LI-TE RD. PEITOU,TAIPEI 112, TAIWAN

Manufacturer or Supplier	1. Shenzhen Gongjin Electronics Co., Ltd 2. Taicang T&W Electronics Co., Ltd.
Address	1. B116, B118, A211-A213, B201-B213, A311-A313, B411-413, BF08-09 Nanshan Medical Instrument Industry Park,1019# Nanhai Road, Nanshan District, Shenzhen, Guangdong, 518067, P.R.China 2. Jiangnan Road 89,Ludu Town, Taicang, Jiangsu 215412, P.R.China
Product	Wireless N300 Range Extender
Brand Name	ASUS
Model	RP-N12
Additional Model & Model Difference	N/A
Date of tests	Apr. 10, 2014 ~ May 10, 2015

☒ FCC Part 2 (Section 2.1091)

☒ KDB 447498 D03

☒ IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Yuqiang Yin
Project Engineer / EMC Department

Approved by Glyn He
Supervisor / EMC Department

Date: May 12, 2015

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Table of Contents

RELEASE CONTROL RECORD	3
1. CERTIFICATION.....	4
2. RF EXPOSURE LIMIT	5
3. MPE CALCULATION FORMULA.....	5
4. CLASSIFICATION	5
5. ANTENNA GAIN	6
6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS150410N020	Original release	May 12, 2015

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1. CERTIFICATION

FCC ID: MSQ-RPN12
PRODUCT: Wireless N300 Range Extender
BRAND NAME: ASUS
MODEL NO.: RP-N12
TEST SAMPLE: Engineering Sample
APPLICANT: ASUSTek COMPUTER INC.
TESTED DATE: May 10, 2015
STANDARDS: FCC Part 2 (Section 2.1091)
KDB 447498 D03
IEEE C95.1



2. RF EXPOSURE LIMIT

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

3. 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

4. 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**.



5. ANTENNA GAIN

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

Transmitter Circuit	Peak Gain (dBi)	Total Gain (dBi)	Antenna Type
Chain 0	2.0	5.01	Dipole Antenna
Chain 1	2.0		Dipole Antenna

Note: Total Gain=2+10log(N=2)=2+3.01=5.01dBi

6. 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	223.394	5.01	20	0.141	1.00

Conclusion

Therefore device complies with FCC's RF radiation exposure limits for general population in mobile exposure category (distance > 20cm)

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