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

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China

Tel: +86 769 8593 5656
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com

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

RELEASE CONTROL RECORD

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

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China

Tel: +86 769 8593 5656
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com

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

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

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

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)

--- END ---