

RF Exposure Evaluation declaration

Product Name	802.11 ac PCIe Module
Model No.	NGP1058
FCC ID	HZB-NGP1058W

Applicant Proxim Wireless Corporation	
Address	47633 Westinghouse Drive, Fremont City, California, United States 94539

Date of Receipt	Apr. 13, 2016
Date of Declaration	May. 16, 2016
Report No.	1640316R-RFUSP63V00

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500			F/300	6
1500-100,000			5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500			F/1500	6
1500-100,000			1	30

F= Frequency in MHz

Friis Formula

Friis transmission 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

Pd id the limit of MPE, $1~\text{mW/cm}^2$. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18° C and 78° M RH.



1.3. Test Result of RF Exposure Evaluation

Product : 802.11 ac PCIe Module Test Item : RF Exposure Evaluation

Test Site : No.3 OATS

Operation Frequency	5745-5825MHz,5755-5795MHz,5780MHz
Maximum Conducted output power	28.84 dBm
Antenna gain	30dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Output Power to Antenna (mW)	Power Density at $R = 250 \text{ cm} \text{ (mW/cm2)}$
765.5966069	0.9748

Power density in column $\,$ is much lower than the limit (1 mW/cm²).