FCC ID: 2AA6ZCH1

# **RF Exposure Evaluation**

#### **LIMIT**

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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposures								
0.3–3.0	614	1.63	*(100)	6				
3.0–30	1842/f	1842/f 4.89/f *(		6				
30–300	61.4	0.163	1.0	6				
300–1500	-	-	f/300	6				
1500-100,000	-	-	5	6				
(B) Limits for General Population/Uncontrolled Exposure								
0.3–1.34	614	1.63	*(100)	30				
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30				
30–300	27.5	0.073	0.2	30				
300–1500	-	-	f/1500	30				
1500–100,000	-	-	1.0	30				

Note: f = frequency in MHz

#### **EVALUATION METHOD**

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

Where

Pd = power density in mW/cm<sup>2</sup>, 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

### **TEST RESULT**

□ Passed	☐ Not Applicable

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Туре	Maximum Tune-up (dBm) Conducted Average Power	
802.11b	20.00~22.00	
802.11g	20.00~22.00	
802.11n(H20)	19.00~21.00	

Туре	Conducted Average Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
802.11b	21.37	22.00	0.0587	1.0000	Pass
802.11g	21.25	22.00	0.0571	1.0000	Pass
802.11n(H20)	20.01	21.00	0.0429	1.0000	Pass

#### Note:

- 1) The maximum antenna gain is 3.33dBi
- 2) The exposure evaluation safety distance is 20cm.