MPE Calculation

FCC ID: __ ZCBHYIPC-540D04W___

RF Exposure Requirements: 47CFR§1.1307(b)
RF Radiation Exposure Limits: 47CFR§1.1310
RF Radiation Exposure Guidelines: 47CFR§2.1091
EUT Frequency Band: 2412 – 2462MHz
Limits for General Population/Uncontrolled Exposure in the band of: 1500 – 100000MHz
Power Density Limit: 1.0mW/cm^2;

Equation: $S=PG/4PiR^2$
Where, S=Power Density
P=Power Input to Antenna
G=Antenna Gain
R=distance to the center of radiated antenna

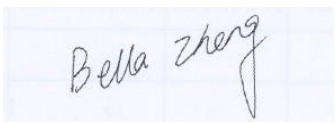
For 802.11b-Low Channel (2412MHz):
Power=16.81dBm, Antenna Gain=3dBi, Prediction distance 20cm
S=(48.0*2.0)/(4*3.14*20*20)=0.0191 mW/cm2

For 802.11g-Mid Channel (2437MHz):
Power=15.19dBm, Antenna Gain=3dBi, Prediction distance 20cm
S=(33.0*2.0)/(4*3.14*20*20)=0.0131 mW/cm2

For 802.11n/HT20- Mid Channel (2437MHz):
Power=12.12dBm, Antenna Gain=3dBi, Prediction distance 20cm
S=(16.2*2.0)/(4*3.14*20*20)=0.0064 mW/cm2

For 802.11n/HT40-Low Channel (2422MHz):
Power=10.83dBm, Antenna Gain=3dBi, Prediction distance 20cm
S=(12.1*2.0)/(4*3.14*20*20)=0.0048 mW/cm2

Result
The above result had shown that device complied with 1.0mW/cm^2 Power density requirement for distance of 20 cm.



Completed By:_____ _ ____
Data:___2012-06-08_____