Maximum Permissible Exposure

FCC ID	**HLZ-AMP220**
Model No.	**AMP220**
RF Specification	**2.4G: 802.11b/g/n** **Bluetooth: V4.2 LE**

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)

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

Calculation Result:

Mode	Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WLAN	2412~2462	24.10	257	2.76	20	0.0965	1
BT	2402~2480	-0.355	0.9215	0	20	0.0002	1

Simultaneous Calculation:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

Where
CPD = Calculation power density
LPD = Limit of power density

WIFI + BT = 0.0965 + 0.0002 = 0.00967 mW/cm^2

Therefore, the maximum calculations are less than the "1" limit. Complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091.