MPE Calculations(WLAN: 802.11b)

- Frequency range : 2412 MHz ~ 2462 MHz
- Maximum RF output power 20.93 dBm
- Maximum antenna peak gain : 0.77 dBi

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user. The MPE calculation for this exposure is shown below.

The peak radiated output power (EIRP) is calculated as follows:

• EIRP =	P +	G			- Note
=	20.93	dBm +	0.77	dBi	P = Power input to the antenna(dBm)
=	21.70	dBm			G = Power gain of the antenna(dBi)

- Power density at the specific separation

• S = P G / (4 $R^2 \pi$)	- Note
= 123.88 X 1.194 / ($4 \times 20^2 \times \pi$)	S = Maximum power dencity(mW/cm2)
= 0.02943 mW/cm ²	P = Power input to the antenna(mW)
	G = Numeric power gain of the antenna
	R = Distance to the center of the radiation of the antenna(20cm)

Conclusion : The exposure condition of this device is compliant with FCC rules.

MPE Calculations(WLAN: 802.11g)

- Frequency range : **2412** MHz ~ **2462** MHz
- Maximum RF output power 24.74 dBm
- Maximum antenna peak gain : 0.77 dBi

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user. The MPE calculation for this exposure is shown below.

The peak radiated output power (EIRP) is calculated as follows:

• EIRP = P + G							- Note
:	=	24.74	dBm	+	0.77	dBi	P = Power input to the antenna(dBm)
:	=	25.51	dBm				G = Power gain of the antenna(dBi)

- Power density at the specific separation

• S = P G / (4 $R^2 \pi$)	- Note
= 297.85 X 1.194 / ($4 \times 20^2 \times \pi$)	S = Maximum power dencity(mW/cm2)
= 0.07075 mW/cm ²	P = Power input to the antenna(mW)
	G = Numeric power gain of the antenna
	R = Distance to the center of the radiation of the antenna(20cm)

Conclusion : The exposure condition of this device is compliant with FCC rules.

MPE Calculations(WLAN: 802.11n HT20)

- Frequency range : 2412 MHz ~ 2462 MHz
- Maximum RF output power 22.96 dBm
- Maximum antenna peak gain : 0.77 dBi

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user. The MPE calculation for this exposure is shown below.

The peak radiated output power (EIRP) is calculated as follows:

• EIRP =	= P +	G			- Note
=	= 22.96	dBm +	0.77	dBi	P = Power input to the antenna(dBm)
=	= 23.73	dBm			G = Power gain of the antenna(dBi)

- Power density at the specific separation

• S = P G / (4 R ² π)	- Note
= 197.70 X 1.194 / ($4 \times 20^2 \times \pi$)	S = Maximum power dencity(mW/cm2)
= 0.04696 mW/cm ²	P = Power input to the antenna(mW)
	G = Numeric power gain of the antenna
	R = Distance to the center of the radiation of the antenna(20cm)

Conclusion : The exposure condition of this device is compliant with FCC rules.

MPE Calculations(WLAN: 802.11n HT20)

- Frequency range : 2422 MHz ~ 2452 MHz
- Maximum RF output power 23.08 dBm
- Maximum antenna peak gain : 0.77 dBi

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user. The MPE calculation for this exposure is shown below.

The peak radiated output power (EIRP) is calculated as follows:

• EIRP = P + G						- Note
=	23.08	dBm	+	0.77	dBi	P = Power input to the antenna(dBm)
=	23.85	dBm				G = Power gain of the antenna(dBi)

- Power density at the specific separation

• S = P G / (4 R ² π)	- Note
= 203.24 X 1.194 / ($4 \times 20^2 \times \pi$)	S = Maximum power dencity(mW/cm2)
= 0.04828 mW/cm ²	P = Power input to the antenna(mW)
	G = Numeric power gain of the antenna
	R = Distance to the center of the radiation of the antenna(20cm)

Conclusion : The exposure condition of this device is compliant with FCC rules.