# MPE Calculations: (WLAN: 802.11b)

- Frequency range : 2412 MHz 2462 MHz - Measured RF output power 17.93 dBm Target Power & Tolerance: 17.00 18 dBm dB ( Max. dBm & Min. 16 dBm) Maximum antenna peak gain : 2.46 dBi

- Maximum output power for the calculation: 18.00 dBm

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

#### - Power density at the specific separation

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

# MPE Calculations: (WLAN: 802.11g)

- Frequency range : 2412 MHz 2462 MHz - Measured RF output power 21.08 dBm 19.5 Target Power & Tolerance: 20.50 21.5 dBm dB ( Max. dBm & Min. dBm) Maximum antenna peak gain : 2.46 dBi

- Maximum output power for the calculation: 21.50 dBm

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

#### - Power density at the specific separation

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

# MPE Calculations: (WLAN: 802.11n HT20)

- Frequency range : 2412 MHz ~ 2462 MHz - Measured RF output power 21.51 dBm Target Power & Tolerance: 21.00 dBm 22 20 dB ( Max. dBm & Min. dBm) Maximum antenna peak gain : 2.46 dBi

- Maximum output power for the calculation: 22.00 dBm

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

#### - Power density at the specific separation

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

## **MPE Calculations: (Bluetooth)**

- Frequency range : 2402 MHz 2480 MHz - Measured RF output power 3.85 dBm Target Power & Tolerance: 3.00 2 dBm dB ( Max. dBm & Min. dBm) Maximum antenna peak gain : 0.77 dBi

- Maximum output power for the calculation: 4.00 dBm

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

#### - Power density at the specific separation

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

# **RF Exposure Compliance for simultaneous operations**

- Configurations for simultaneous operations
  - Configuration 1:2.4GHz WLAN + Bluetooth

#### Result

RF function	802.11b	802.11g	802.11n (HT20)	ВТ	Total Power
MODE	2.4GHz	2.4GHz	2.4GHz	2.4GHz	Density
Power Density (mW/cm²)	0.022118	0.049515	0.055557	0.000597	(mW/cm <sup>2</sup> )
Configuration 1			O 0.055557	O 0.000597	0.056154

Note 1: The maximum power density in each RF function was used for above table.