# MPE Calculations: (WLAN: 802.11b)

- Frequency range : 2412 MHz ~ 2462 MHz

- Measured output power: 17.25 dBm

- Target Power & Tolerance : 17.00 dBm ± 1.5 dB ( Max. 18.5 dBm & Min. 15.5 dBm )

- Maximum antenna peak gain : 2.46 dBi

- Maximum output power for the calculation: 18.50 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: 802.11g)

- Frequency range : 2412 MHz ~ 2462 MHz

- Measured output power: 20.42 dBm

- Target Power & Tolerance : 20.50 dBm ± 1.5 dB ( Max. 22 dBm & Min. 19 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: (WLAN: 802.11n HT20)

- Frequency range : 2412 MHz ~ 2462 MHz

- Measured output power: 20.84 dBm

- Target Power & Tolerance : 21.00 dBm ± 1.5 dB ( Max. 22.5 dBm & Min. 19.5 dBm )

- Maximum antenna peak gain : 2.46 dBi

- Maximum output power for the calculation: 22.50 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: (Bluetooth)**

- Frequency range : 2402 MHz 2480 MHz - Measured output power : 4.27 dBm Target Power & Tolerance: 3.00 1.5 4.5 dBm dB ( Max. dBm & Min. 1.5 dBm) 0.77 Maximum antenna peak gain : dBi

- Maximum output power for the calculation: 4.50 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.

# **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)	0.024817	0.055557	0.062335	0.00067	(mW/cm <sup>2</sup> )
Configuration 1	0.024817			0.00067	0.025487

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