MPE Calculations(WLAN: 802.11b)

```
- Frequency range :
                     2412
                             MHz
                                         2462
                                                 MHz
- Measured RF output power
                            15.53
                                   dBm
 Target Power & Tolerance:
                            15.00
                                   dBm
                                            1.5 dB ( Max.
                                                              16.5
                                                                    dBm & Min.
                                                                                           dBm)
 Maximum antenna peak gain :
                               4.35
                                      dBi
```

- Maximum output power for the calculatio 16.50 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

$$\begin{array}{lll} \bullet & \textbf{S} &=& \text{EIRP} \, / \, (\, 4 \, \text{R}^2 \pi \,) \\ &=& \textbf{121.619} \quad / \, (\, 4 \, \text{X} \, 20^2 \, \text{X} \, \pi \,) \\ &=& \textbf{0.024196} \quad \text{mW/cm}^2 \\ \end{array} \begin{array}{lll} \bullet & \textbf{S} &=& \text{Maximum power dencity(mW/cm}^2) \\ &=& \text{EIRP} &=& \text{Equivalent Isotropic Radiated Power(mW)} \\ &=& \text{R} &=& \text{Distance to the center of the radiation of the antenna(20cm)} \\ \end{array}$$

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
                            10.38
                                   dBm
 Target Power & Tolerance:
                            10.00
                                   dBm
                                             1.5 dB ( Max.
                                                              11.5
                                                                    dBm & Min.
                                                                                           dBm)
 Maximum antenna peak gain :
                               4.35
                                      dBi
```

- Maximum output power for the calculatio 11.50 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

$$\begin{array}{lll} \bullet & \textbf{S} &=& \text{EIRP} \, / \, (\, 4 \, \text{R}^2 \pi \,) \\ &=& \textbf{38.460} \quad / \, (\, 4 \, \text{X} \, 20^2 \, \text{X} \, \pi \,) \\ &=& \textbf{0.007652} \quad \text{mW/cm}^2 \\ \end{array} \begin{array}{lll} \bullet & \textbf{Note} \\ & S &=& \text{Maximum power dencity(mW/cm}^2) \\ & EIRP &=& \text{Equivalent Isotropic Radiated Power(mW)} \\ & R &=& \text{Distance to the center of the radiation of the antenna(20cm)} \\ \end{array}$$

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
                             9.49
                                   dBm
 Target Power & Tolerance:
                            10.00
                                             1.5 dB ( Max.
                                                              11.5
                                   dBm
                                                                    dBm & Min.
                                                                                           dBm)
 Maximum antenna peak gain :
                               4.35
                                      dBi
```

- Maximum output power for the calculatio 11.50 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

$$\begin{array}{lll} \bullet & \textbf{S} &=& \text{EIRP} \, / \, (\, 4 \, \text{R}^2 \pi \,) \\ &=& \textbf{38.460} \quad / \, (\, 4 \, \text{X} \, 20^2 \, \text{X} \, \pi \,) \\ &=& \textbf{0.007652} \quad \text{mW/cm}^2 \\ \end{array} \begin{array}{lll} \bullet & \textbf{Note} \\ & S &=& \text{Maximum power dencity(mW/cm}^2) \\ & EIRP &=& \text{Equivalent Isotropic Radiated Power(mW)} \\ & R &=& \text{Distance to the center of the radiation of the antenna(20cm)} \\ \end{array}$$

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

MPE Calculations(WLAN: 802.11n HT40)

```
- Frequency range :
                     2422
                              MHz
                                         2452
                                                 MHz
- Measured RF output power
                             9.02
                                   dBm
 Target Power & Tolerance:
                             9.00
                                   dBm
                                             1.5 dB ( Max.
                                                              10.5
                                                                    dBm & Min.
                                                                                           dBm)
 Maximum antenna peak gain :
                               4.35
                                      dBi
```

- Maximum output power for the calculatio 10.50 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.