

## 4.2 Radio Frequency Exposure Compliance

### 4.2.1 Electromagnetic Fields

**RESULT:****Passed**

Date of testing : 2014-10-16  
Test standard : FCC KDB Publication 447498 D01 General RF Exposure  
Guidance v05r02  
FCC 1.1310

MPE Calculation  
According to the formula

$$Pd = \frac{Pout * G}{4\pi R^2}$$

Where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = Antenna gain in numeric

π = 3.14159

R = Distance between observation point and the center of radiator in cm

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping the safety distance from the antenna should be included in the user manual.

The highest measured power including antenna gain is -15.31dBm(0.0294mW), hence the Maximum Permissible Exposure (MPE) value:

$$Pd = \frac{Pout * G}{4\pi R^2} = \frac{0.0294 \times 1}{4 \times 3.14159 \times 20^2} = 5.849 \times 10^{-6} mW / cm^2 < 1mW / cm^2$$

Therefore the device is exclusion from SAR test, and compliance with MPE limit.