RF Exposure Report

FCC ID: 2AC23-W79M1510S

FCC 47 CFR Part 15 Subpart C

Product： WIFI Module

Trade Name： GSD

Model Number： W79M1510S

Issued for

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MPE Calculation

1. Antenna Gain:

PIFA Antenna: 2.4~2.5GHz: 1.90 dBi

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=(PG)/4\pi R^2$$

Where

S: power density
P: power input to the antenna
G: power gain of the antenna in the direction of interest relative to an isotropic radiator.
R: distance to the center of radiation of the antenna

4. Test Result:

2.4G BAND MPE Result						
Mode	**N_{TX}**	**Frequency (MHz)**	**Power (dBm) [P]**	**ANT Gain (dBi) [G]**	**Distance (cm) [R]**	**Power Density (mW/cm^2) [S]**
802.11b	**1**	**2437**	**19.68**	**1.9**	**20**	**0.0286**
802.11g	**1**	**2462**	**16.92**	**1.9**	**20**	**0.0151**
802.11n (HT20)	**1**	**2462**	**16.72**	**1.9**	**20**	**0.0144**
802.11n (HT40)	**1**	**2462**	**15.05**	**1.9**	**20**	**0.0098**

Note:

(1) N_{TX}= Number of Transmit Antennas

(2) RF Output power specifies that Maximum Conducted Peak Output Power.

5. Conclusion:

FCC and IC:

FCC: As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),
IC: As specified in 4.2 RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/cm^2)
300-1,500	F/1500

1,500-100,000	**1.0**

For WLAN 2.4G BAND
MPE limit S: 1 mW/ cm^2
The MPE is calculated as 0.0286mW / cm^2 < limit 1 mW / cm^2. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note
For a more detailed features description, please refer to the RF Test Report.