

RF Exposure Report

FCC ID: 2AC23-W79M1510S

FCC 47 CFR Part 15 Subpart C

Class II Change

Product : WIFI Module

Trade Name : GSD

Model Number : W79M1110, W79M1510S

Issued for

Hui Zhou Gaoshengda Technology Co.,LTD

NO.75 Zhongkai Development Area, Huizhou, Guangdong, China

Issued by

Shenzhen ATL Testing Technology Co., Ltd.

F/4, Building 10, Dayuan Industrial Zone, Xili Town, Nanshan District, Shenzhen,
China

Tel.: +86-0755-26909822 Fax.: +86-0755-61605504

Website: www.atllab.org

Note: This report shall not be reproduced except in full, without the written approval of Shenzhen ATL Testing Technology Co., Ltd.. This document may be altered or revised by Shenzhen ATL Testing Technology Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample

MPE Calculation

1. Antenna Gain:

PIFA Antenna: 2.4~2.5GHz: 3.0 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	3.0	20	0.0368
802.11g	1	2462	15.89	3.0	20	0.0154
802.11n (HT20)	1	2462	16.28	3.0	20	0.0169
802.11n (HT40)	1	2462	14.87	3.0	20	0.0121

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/ cm²

The MPE is calculated as 0.0368mW / cm² < limit 1 mW / cm². 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.