

RF Exposure Report

FCC ID: 2AC23-WCT3EM2611

Product : WIFI Module

Trade Name : GSD

Model Number : WCT3EM2611

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

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MPE Calculation

1. Antenna Gain:

BT PIFA Antenna: 2.402~2.48 GHz: 2.0 dBi
WIFI PIFA Antenna: 2.412~2.462 GHz: 2.0 dBi
WIFI PIFA Antenna: 5.15~5.25GHz: 3.0 dBi
WIFI PIFA Antenna: 5.725~5.85GHz: 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:

MPE Result						
Mode	N _{TX}	Frequency (MHz)	Power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm ²) [S]
BT	1	2402	0.71	2.0	20	0.0004
BT(BLE)	1	2442	1.63	2.0	20	0.0005
2.4G WIFI	2	2412	20.45	2.0	20	0.0349
U-NII-1 Band WIFI	2	5240	15.92	3.0	20	0.0155
U-NII-3 Band WIFI	2	5825	15.35	3.0	20	0.0136

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 all the operating frequency band the MPE limit S: 1 mW/ cm²

The maximum MPE is calculated as 0.0349mW / 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.