



FCC RF EXPOSURE REPORT
CERTIFICATION TEST REPORT

For

WIFI Module

MODEL NUMBER: WC5EM2601F

FCC ID: 2AC23-WC5E

REPORT NUMBER: 4790105656.2-4

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Prepared for

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Prepared by

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Revision History

| Rev. | Issue Date | Revisions | Revised By |
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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
Address: NO.75 Zhongkai Development Area, Huizhou, Guangdong China

Manufacturer Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
Address: NO.75 Zhongkai Development Area, Huizhou, Guangdong China

EUT Information

EUT Name: WIFI Module
Model: WC5EM2601F
Brand: GSD
Sample Received Date: September 22, 2021
Sample Status: Normal
Sample ID: 4245286
Date of Tested: September 24, 2021 ~ October 25, 2021

| APPLICABLE STANDARDS | |
|----------------------|--------------|
| STANDARD | TEST RESULTS |
| FCC 47CFR§2.1091 | PASS |

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

| | |
|---------------------------|---|
| Accreditation Certificate | <p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.</p> <p>Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011</p> |
|---------------------------|---|

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

| Frequency Range (MHz) | E-field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (Minutes) |
|-----------------------|----------------------------|-----------------------------------|---|---|
| 0.3 -- 1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34 -- 30 | 824/f | 2.19/f | (180/f ²)* | 30 |
| 30 -- 300 | 27.5 | 0.073 | 0.2 | 30 |
| 300 -- 1500 | -- | -- | f/1500 | 30 |
| 1500 -- 100,000 | -- | -- | 1.0 | 30 |

CALCULATION METHOD

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

Where:

S=power density

P=power input to 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

**CALCULATED RESULTS**

| Mode | Output Power | Directional Gain | Power Density | Power Density Limit | Test Result |
|-----------|--------------|------------------|--------------------|---------------------|-------------|
| | dBm | dBi | mW/cm ² | mW/cm ² | -- |
| WIFI 2.4G | 20 | 5 | 0.06292 | 1.0 | Complies |

| Mode | Output Power | Directional Gain | Power Density | Power Density Limit | Test Result |
|---------|--------------|------------------|--------------------|---------------------|-------------|
| | dBm | dBi | mW/cm ² | mW/cm ² | -- |
| WIFI 5G | 20 | 6 | 0.07922 | 1.0 | Complies |

Note:

1. The Power comes from operation description.
2. 2.4G WIFI and 5G WIFI cannot support simultaneous emission.
3. The minimum separation distance of the device is greater than 20 cm.
3. Calculate by WORST-CASE mode.

END OF REPORT