

## **FCC RF EXPOSURE REPORT**

#### **CERTIFICATION TEST REPORT**

For

WIFI+BT Module

**MODEL NUMBER: WT5YM2611** 

FCC ID: 2AC23- WT5Y

REPORT NUMBER: 4789769271-5

ISSUE DATE: January 13, 2021

### Prepared for

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

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

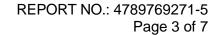
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## **Revision History**

Rev.	Issue Date	Revisions	Revised By
V0	01/13/2021	Initial Issue	





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#### 1. ATTESTATION OF TEST RESULTS

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Apı	olican	it Info	rmation

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+BT Module Model: WT5YM2611

Brand: GSD

Serial Model: Please refer to clause 5.1. Description of EUT

Sample Received Date: December 9, 2020

Sample Status: Normal Sample ID: 3547996

Date of Tested: December 9, 2020~ December 25, 2020

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
FCC 47CFR§2.1091	PASS		

Prepared By:	Checked By:	
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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	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.  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 Delcaration of Conformity (DoC) and Certification rules 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.  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.  Facility Name:
	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

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.

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### 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/cm²)	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 <sup>2</sup> )*	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



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**CALCULATED RESULTS** 

Worst Case						
Mode	Output Power	Antenna Gain	Power Density	Power Density Limit	Test Result	
	dBm	dBi	mW/cm <sup>2</sup>	mW/cm <sup>2</sup>	1	
BLE	10	3	0.00397	1.0	Complies	

Worst Case						
Mode	Output Power	Antenna Gain	Power Density	Power Density Limit	Test Result	
Mode	dBm	dBi	mW/cm <sup>2</sup>	mW/cm <sup>2</sup>		
ВТ	10	3	0.00397	1.0	Complies	

Worst Case						
Mode	Output Power	Directional Gain	Power Density	Power Density Limit	Test Result	
	dBm	dBi	mW/cm2	mW/cm2		
WIFI 2.4G	16	6	0.03153	1.0	Complies	

Worst Case							
Mode	Output Power	Directional Gain	Power Density	Power Density Limit	Test Result		
	dBm	dBi	mW/cm2	mW/cm2			
WIFI 5G	17	7.01	0.05009	1.0	Complies		

#### Note:

- 1. The Power comes from report operation description.
- 2. The EUT 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**