

FCC RF EXPOSURE REPORT

CERTIFICATION TEST REPORT

For

WIFI+BT Module

MODEL NUMBER: WCT2GM2511

FCC ID: 2AC23-WCT2G

REPORT NUMBER: 4790119556.2-5

ISSUE DATE: October 13, 2021

Prepared for

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

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	11/13/2021	Initial Issue	_



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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+BT Module Model: WCT2GM2511

Brand: GSD

Sample Received Date: September 23, 2021

Sample Status: Normal Sample ID: 4167750

Date of Tested: September 23, 2021~ October 12, 2021

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

	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)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
Certificate	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:
	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.



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 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/4πR²

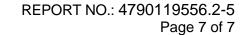
Where:

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

Worst Case						
Mode	Output Power	Antenna Gain	Power Density	Power Density Limit	Test Result	
	dBm	dBi	mW/cm2	mW/cm2		
BLE	8	2	0.00199	1.0	Complies	

Worst Case						
Mode	Output Power	Antenna Gain	Power Density	Power Density Limit	Test Result	
	dBm	dBi	mW/cm2	mW/cm2		
ВТ	10	2	0.00315	1.0	Complies	

Worst Case						
Mode	Output Power	Directional Antenna Gain	Power Density	Power Density Limit	Test Result	
	dBm	dBi	mW/cm2	mW/cm2		
WIFI 2.4G	18	6	0.04997	1.0	Complies	

Worst Case						
Mode	Output Power	Directional Antenna Gain	Power Density	Power Density Limit	Test Result	
	dBm	dBi	mW/cm2	mW/cm2		
WIFI 5G	18	7	0.06291	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