



RF EXPOSURE REPORT

Applicant:	Guangzhou Shirui Electronics Co., Ltd			
Address:	192 KeZhu Road, Scientech Park, guangzhou Economic Technology			
	Development District, Guangzhou China			
Manufacturer:	Guangzhou Shirui Electronics Co., Ltd			
Address:	192 KeZhu Road, Scientech Park, guangzhou Economic Technology Development District, Guangzhou China			
Product Description:	Touch Control Panel			
Brand Name:	MAXHUB			
Tested Model:	TCP30T			
FCC ID:	2AFG6-TCP30T			
Report No.:	JCF240313011-005			
Received Date: Mar. 13, 2024				
Tested Date: Mar. 13, 2024 ~ May. 09, 2024				
Issued Date: May. 09, 2024				
Test Standards: KDB 447498 D01 General RF Exposure Guidance v06				
Test Result:	Pass			
Prepared By:				
Roger Li	TESTING TE			
Roger Li/Engineer Date: May 09, 2029				
Reviewed By:				
Kennys Zhang				
Kennys Zhang/Engineer	Date: Ma, 09 202			
Approved By:				
Talent theng				

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Date: May. 09, 2024

Talent Zhang/Engineer

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	May. 09, 2024	Original Report	1

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1. Test Report Declare

Applicant:	Guangzhou Shirui Electronics Co., Ltd			
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Address:	192 KeZhu Road, Scientech Park, guangzhou Economic Technology Development District, Guangzhou China			
Product Name	Touch Control Panel			
Brand Name:	MAXHUB			
Model Name:	TCP30T, TCP*****(*: A~Z, a~z,0~9, or Blank)			
Difference Description:	The derivative model have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with the basic model. The difference lies only the model number just for marketing purpose.			

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

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2. Equipment Under Test

2.1. Description of EUT

EUT* Name:	Touch Control Panel		
Model Number:	TCP30T		
EUT Function Description:	Please refer to user manual of this device		
Power Supply:	52V 0.49A		
Hardware Version:	NA		
Software Version:	NA		
Radio Specification:	IEEE 802.11a/n/ac		
Operation Frequency:	IEEE 802.11a: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5755MHz-5795MHz IEEE 802.11ac VHT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11ac VHT40: 5190MHz-5230MHz, 5755MHz-5795MHz		
Modulation:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac (VHT20/40): OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)		
Data Rate:	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps IEEE 802.11n HT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130, 144.4 Mbps IEEE 802.11n HT40: 30, 60, 90, 120, 180, 240, 270, 300 Mbps IEEE 802.11ac VHT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130, 144.4, 173.3 Mbps IEEE 802.11ac VHT40: 30, 60, 90, 120, 180, 240, 270, 300, 360, 400 Mbps		
Antenna Type:	FPC Antenna1&2, MAX. Gain: 2.79 dBi		
Product Type:	□Portable device ☑Mobile device □Fixed device		

Note 1: EUT is the ab. of equipment under test.

2.2. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description		
WIFI	⊠2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.		

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Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03 FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

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4. RF Exposure Measurement

4.1. Requirement

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 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

4.2. Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	,		Average Time (Minutes)		
Limits For General Population / Uncontrolled Exposure						
0.3–1.34	614	1.63	*(100)	30		
1.34–30	824/f	2.19/f	*(180/f²)	30		
30–300	27.5	0.073	0.2	30		
300-1500			F/1500	30		
1500-100,000			1.0	30		

F = Frequency in MHz

4.3. MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*R^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

4.4. Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

4.5. Conducted Power

Band	Channel Frequency (MHz)	Average Power (dBm)
5G WIFI	5240	13.95

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^{* =} Plane-wave equivalent power density.

5. RF Exposure Calculation

We used the maximum power between the conducted power and ERP/EIRP to perform RF exposure

exemption evaluation.

Band	Channel Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm²)	Limit (mW/cm²)	PASS/FAIL
5G WIFI	5240	13.95	2.79	0.009	1	PASS

This confirmed that the device comply with FCC 1.1310 MPE limit.

--END--

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