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	TEST REPOR	<u> </u>	
FCC ID:	2BNC3-T113		
Test Report No::	TCT250618E026		
Date of issue::	Jun. 27, 2025		
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factor Fuhai Subdistrict, Bao'an District 518103, People's Republic of Ch	t, Shenzhen, Guangdo	Zone, ong,
Applicant's name::	Shenzhen Xunyue Automobile T	echnology Co., LTD	
Address::	Room 503, Building 1, 6th Phase Guanlan, Longhua District, Sher China		
Manufacturer's name:	Shenzhen Xunyue Automobile T	echnology Co., LTD	
Address::	Room 503, Building 1, 6th Phase Guanlan, Longhua District, Sher China	•	
Standard(s)::	FCC CFR Title 47 Part 1.1307		
Product Name::	INTELLIGENT LCD METER		
Trade Mark:	N/A	(3)	
Model/Type reference:	S11, F9 PRO		
Rating(s)::	DC 12V		
Date of receipt of test item	Jun. 18, 2025		
Date (s) of performance of test:	Jun. 18, 2025 ~ Jun. 27, 2025		
Tested by (+signature) :	Yannie ZHONG	Yannie Zoneces	
Check by (+signature):	Beryl ZHAO	Boy (TCT)	
Approved by (+signature):	Tomsin	Tomsies &	

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1. General Product Information

1.1. EUT description

Product Name:	INTELLIGENT LCD METER		(6)
Model/Type reference:	S11		
Sample Number:	TCT250618E007-0101		
Operation Frequency:	For BT/BLE: 2402MHz~2480MHz For WIFI: 5745MHz~5825MHz	(6)	
Modulation Type:	For BT: GFSK, π/4-DQPSK, 8DPSK For BLE: GFSK For WIFI: 64QAM, 16QAM, BPSK, QPSK		
Antenna Type:	For BT/BLE: FPC Antenna For WIFI: FPC Antenna		
Antenna Gain:	For BT/BLE: 3.89dBi For WIFI: 2.34dBi	(C)	
Rating(s):	DC 12V		

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	S11	
Other models	F9 PRO	

Note: S11 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names and the casing. So the test data of S11 can represent the remaining models.





2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 12V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Transmitting Mode:	Keep the EUT in continuous transmitting by select channel

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment Model No.		Serial No. FCC ID		Trade Name	
1	1		1	1	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339







4. Limit

According to §1.1310, the limit is as follow,

TABLE 1 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(i) Limits for Oc	cupational/Controlled Expos	URE	
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
	(II) LIMITS FOR GENERA	AL POPULATION/UNCONTROLLED E	XPOSURE	
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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.







5. Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) For BT: The maximum output power for antenna is 4.97dBm (3.14mW) at 2402MHz, 3.89dBi antenna gain(with 2.45 numeric antenna gain.)

For BLE: The maximum output power for antenna is 4.25dBm (2.66mW) at 2402MHz, 3.89dBi antenna gain(with 2.45 numeric antenna gain.)

For WIFI: The maximum output power for antenna is 13.37dBm (21.73mW) at 5825MHz, 2.34dBi antenna gain(with 1.71 numeric antenna gain.)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Calculation

Given

$$E = \sqrt{\frac{30 \times P \times G}{d}} \quad \& \quad S = \frac{E^2}{3770}$$

Where

E = Field Strength in Volts / meter

P = Power in Watts

G=Numeric antenna gain

d=Distance in meters

S=Power Density in milliwatts / square centimeter

Substituting the MPE safe distance using d=20cm into above equation.

Yields: S=0.000199*P*G

Mode	Power (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
ВТ	4.97	3.14	2.45	0.00153	1.00	
BLE	4.25	2.66	2.45	0.00130	1.00	PASS
WIFI	13.37	21.73	1.71	0.00739	1.00	

Note: BT/ WIFI Can be transmitted simultaneously, MPE calculate is as follow, MPE=0.00153/1.0+0.00739/1.0=0.00892<1.

BLE/ WIFI Can be transmitted simultaneously, MPE calculate is as follow, MPE=0.00130/1.0+0.00739/1.0=0.00869<1.

*****END OF REPORT*****