

	TEST REPOR	RT			
FCC ID:	2ACOE-SKB378				
Test Report No::	TCT220701E009				
Date of issue::	Jul. 08, 2022				
Testing laboratory:	SHENZHEN TONGCE TESTIN	IG LAB			
Testing location/ address:	2101 & 2201, Zhenchang Facto Subdistrict, Bao'an District, She People's Republic of China	•			
Applicant's name::	Skylab M&C Technology Co., L	.td.			
Address::	6/F, Building 9, Lijincheng park Longhua District, Shenzhen, 51		nua St,		
Manufacturer's name:	Skylab M&C Technology Co., Ltd.				
Address::	6/F, Building 9, Lijincheng park, Gongye East Rd, Longhua St, Longhua District, Shenzhen, 518109 China				
Standard(s)::	FCC CFR Title 47 Part 1.1307				
Product Name::	SKB378 Datasheet BLE 5.2 Module				
Trade Mark:	N/A				
Model/Type reference:	SKB378				
Rating(s)::	DC 3V				
Date of receipt of test item:	Jul. 01, 2022				
Date (s) of performance of test:	Jul. 01, 2022 - Jul. 08, 2022				
Tested by (+signature):	Aaron MO	Soron Ares			
Check by (+signature):	Beryl Zhao	BUY! TOTE			
Approved by (+signature):	Tomsin	Ton so			

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# 1. General Product Information

## 1.1. EUT description

Product Name:	SKB378 Datasheet BLE 5.2 Module			
Model/Type reference:	SKB378			
Sample Number:	TCT220701E008-0101			
Operation Frequency:	2402MHz~2480MHz			
Modulation Type:	GFSK			
Antenna Type:	PCB Antenna	(C)		
Antenna Gain:	-3dBi			
Rating(s):	DC 3V			

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

1.2. N	arameter. lodel(s) l ne.	ist			



## 2. General Information

## 2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 3V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Engineering 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	/

#### 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.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

#### 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. 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) The maximum output power for antenna is 5.25dBm (3.35mW) at 2402MHz, -3dBi antenna gain (with 0.50 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

Maximum Permissible Exposure

output power= 3.35mW

Numeric Antenna gain= 0.50

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

Yields:

S=0.000199\*P\*G

Where P=Power in mW

G=Numeric antenna gain

S=Power density in mW/cm<sup>2</sup>

Power density= 0.000333mW/cm2

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm<sup>2</sup> even if the calculation

indicates that the power density would be larger.)

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

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