

TEST REPORT

FCC ID.	2AWFG-AD-1565	
Test Report No.	TCT220223E920	
Date of issue	Feb. 25, 2022	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name	Shenzhen Sunchip Technology Co., Ltd.	
Address	2nd-3rd Floor, Building 4, Fuan Industry, Area Phase 2, Dayang Development Zone, Fuyong, Baoan, Shenzhen, China	
Manufacturer's name ...	Shenzhen Sunchip Technology Co., Ltd.	
Address	2nd-3rd Floor, Building 4, Fuan Industry, Area Phase 2, Dayang Development Zone, Fuyong, Baoan, Shenzhen, China	
Standard(s)	FCC CFR Title 47 Part 1.1307	
Test item description	15.6" Advertising all in one	
Trade Mark	 SUNCHIP RAISING TECHNOLOGY	
Model/Type reference	AD-1565, AD-1563, AD-1563A, AD-1563B, AD-1564, AD-1564A, AD-1564B, AD-1565A, AD-1565B	
Rating(s)	Adapter Information: MODEL: FJ-SW20261203000 INPUT: AC 100-240V, 50/60Hz, 1.5A Max OUTPUT: DC 12.0V, 3.0A, 36.0W	
Date of receipt of test item	Feb. 23, 2022	
Date (s) of performance of test	Nov. 01, 2021 - Dec. 01, 2021	
Tested by (+signature) ...	Rleo LIU	
Check by (+signature) ...	Beryl ZHAO	
Approved by (+signature):	Tomsin	
Remark	This test report was based on TCT211101E029; Change model name, product name, trademark, applicant's and manufacturer's information.	

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1. General Product Information

1.1. EUT description

Test item description	15.6" Advertising all in one
Model/Type reference.....	AD-1565
Sample Number.....	TCT211101E012-0101
Operation Frequency	For BT/BLE: 2402MHz~2480MHz For 2.4GWIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) For 5GWIFI: Band 1: 5150 MHz -5250 MHz Band 3: 5725 MHz -5850 MHz
Modulation Type	For BT: GFSK, π/4-DQPSK, 8DPSK For BLE: GFSK For 2.4GWIFI: DSSS(802.11b), OFDM (802.11g/802.11n) For 5GWIFI: 256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type.....	Internal Antenna
Antenna Gain	2dBi
Rating(s).....	Adapter Information: MODEL: FJ-SW20261203000 INPUT: AC 100-240V, 50/60Hz, 1.5A Max OUTPUT: DC 12.0V, 3.0A, 36.0W

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	AD-1565	<input checked="" type="checkbox"/>
Other models	AD-1563, AD-1563A, AD-1563B, AD-1564, AD-1564A, AD-1564B, AD-1565A, AD-1565B	<input type="checkbox"/>

Note: AD-1565 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of AD-1565 can represent the remaining models.

2. General Information

2.1. Test environment and mode

Item	Normal condition	
Temperature	+25°C	
Voltage	AC 120V/60Hz	
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
/	/	/	/	/

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: TCT Testing Industrial Park Fugiao 5th Industrial Zone, Fuhai Street, 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) **For BT:** The maximum output power for antenna is -4.07dBm (0.39mW) at 2441MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

For BLE(1M): The maximum output power for antenna is 5.51dBm (3.56mW) at 2440MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

For BLE(2M): The maximum output power for antenna is 5.38dBm (3.45mW) at 2440MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

For 2.4G WIFI: The maximum output power for antenna is 17.06dBm (50.82mW) at 2437MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

For 5G WIFI: The maximum output power for antenna is 13.11dBm (20.46mW) at 5785MHz, 2dBi antenna gain(with 1.58 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

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

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 $d=20\text{cm}$ into above equation.

Yields: $S=0.000199*P*G$

Mode	Power(mW)	numeric antenna gain	Power density (mW/cm ²)	Limit (mW/cm ²)	Result
BT	0.39	1.58	0.000123	1.0	PASS
BLE(1M)	3.56	1.58	0.001119		
BLE(2M)	3.45	1.58	0.001085		
2.4G WIFI	50.82	1.58	0.015979		
5G WIFI	20.46	1.58	0.006433		

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