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	TEST REPOR	Γ			
FCC ID :	2BE6N-L200S				
Test Report No:	TCT240918E055				
Date of issue:	Oct. 15, 2024				
Testing laboratory::	SHENZHEN TONGCE TESTING	LAB			
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name::	GIRAFIT INC				
Address:	21642 GOLDEN POPPY COURT, WALNUT, California 91749, United States				
Manufacturer's name:	Dongguan Sharetronic Data Tech	Dongguan Sharetronic Data Technology Co., Ltd.			
Address:	Yinhe Industrial Area, Qingxi Town, Dongguan City, Guangdong Province, P.R.China				
Standard(s):	FCC CFR Title 47 Part 1.1307				
Product Name::	L200S Light Bulb Cam				
Trade Mark:	N/A				
Model/Type reference :	GRF-L200SW, GRF-L200S, L200	0S, L200SW			
Rating(s):	AC 120V/60Hz				
Date of receipt of test item	Sep. 18, 2024				
Date (s) of performance of test:	Sep. 18, 2024 ~ Oct. 15, 2024				
Tested by (+signature) :	Aaron MO	Aaron Knogce To			
Check by (+signature) :	Beryl ZHAO	Boy 2 TCT			
Approved by (+signature):	Tomsin	Tomsin's st			

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



# **1. General Product Information**

## 1.1. EUT description

Product Name:	L200S Light Bulb Cam	$(\mathbf{c}^{\prime})$
Model/Type reference:	GRF-L200SW	
Sample Number:	TCT240918E008-0101	
Operation Frequency:	For BLE: 2402MHz~2480MHz For 2.4G WIFI: (802.11b/802.11g/802.11n(HT20)/802.11ax(HE20)) (802.11n(HT40)/802.11ax(HE40)) For 5G WIFI: Band 1: 5180MHz~5240MHz Band 2A: 5260MHz~5320MHz Band 3: 5745MHz~5825MHz For 2.4G WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n/802.11ax: Orthogonal Frequency Division Multiplexing(OFDM)	
Antenna Type:	For 5G WIFI: 256QAM, 64QAM, 16QAM, BPSK, QPSK FPC Antenna	
Antenna Gain:	For BLE: 1.69dBi For 2.4G WIFI: 1.69dBi For 5G WIFI: Band 1: 0.89dBi Band 2A: 1.44dBi Band 3: 1.15dBi	
Rating(s):	AC 120V/60Hz	

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

$\boxtimes \bigotimes$					
Note: GRF-L200SW is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names and color. So the test data of GRF-L200SW can represent the remaining models.					

## 2. General Information

#### 2.1. Test environment and mode

ltem	Normal condition			
Temperature		+25°C		
Voltage		AC 120V		
Humidity		56%		
Atmospheric Pressure:		1008 mbar		(C
Test Mode:				
Transmitting Mode:	Keep the EU	T in continuous transmi	tting by select chanr	nel

#### 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
Mater				

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.

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## 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
- SHENZHEN TONGCE TESTING LAB
- CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development 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





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#### Test Results and Measurement Data 4.

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 BLE: The maximum output power for antenna is 3.36dBm (2.17mW) at 2402MHz, 1.69dBi antenna gain(with 1.48 numeric antenna gain.) For 2.4G WIFI: The maximum output power for antenna is 16.66dBm (46.34mW) at 2412MHz, 1.69dBi antenna gain(with 1.48 numeric antenna gain.) **For 5G WIFI:** The maximum output power for antenna is 15.39dBm(34.59mW) at 5240MHz, 0.89dBi antenna gain(with 1.23 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

E =

Given

 $\sqrt{30 \times P \times G}$ · & S = d 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. S=0.000199\*P\*G Yields:

Mode	Power (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm <sup>2</sup> )	Limit (mW/cm²)	Result
BLE	3.36	2.17	1.48	0.000639	1.00	
2.4G WIFI	16.66	46.34	1.48	0.013648	1.00	PASS
5G WIFI	15.39	34.59	1.23	0.008467	1.00	

\*\*\*END OF REPORT