



Test Report

Report No.: RKEYS251119599

Date: Dec.02, 2025

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RF EXPOSURE EVALUATION REPORT

for

Product: APP surge protector

Model: FC-06

FCC ID: 2BSA6-FC-06

Report No.: RKEYS251119599

Issued for

Shenzhen Jialintong Electronics Co., Ltd.

**No. 2, 6th Floor, Building B, Tea Tree Cooperative Company, Shunchang Road,
Sanwei Industrial Zone, Xixiang Street, Baoan District, Shenzhen, Guangdong,
China**

Issued by

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1. TEST CERTIFICATION

Product: APP surge protector

Trade mark: /

FCC ID: 2BSA6-FC-06

Main Model: FC-06

Model List(s): N/A

Applicant : Shenzhen Jialintong Electronics Co., Ltd.

Address: No. 2, 6th Floor, Building B, Tea Tree Cooperative Company, Shunchang Road, Sanwei Industrial Zone, Xixiang Street, Baoan District, Shenzhen, Guangdong, China

Manufacturer: Shenzhen Jialintong Electronics Co., Ltd.

Address: No. 2, 6th Floor, Building B, Tea Tree Cooperative Company, Shunchang Road, Sanwei Industrial Zone, Xixiang Street, Baoan District, Shenzhen, Guangdong, China

Applicable Standards: CFR 47, FCC Part 2.1091

The above equipment has been tested by Guangdong KEYS Testing Technology Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Prepared by:

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2. GENERAL INFORMATION

2.1. General Description of E.U.T.

Product Name	APP surge protector
Main Model	FC-06
Specification	2.4G WIFI, Bluetooth
Mode	802.11b/g/n20, BLE
Operating frequency	2412-24622MHz for 802.11b/g/n20; 2402-2480 MHz for BLE
Number of Channel	11 Channels for 802.11b/g/n20 40 Channels for BLE
Antenna installation	PCB antenna (declared by manufacturer)
Antenna Gain	-0.23dBi
Type of Modulation	DSSS for 802.11b OFDM for 802.11g/n GFSK for BLE

Note: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3. RF EXPOSURE EVALUATION

3.1. Limits

According to ANSI/IEEE C95.1-1992, the criteria listed in Table as below shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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
300-1500			f/1500	30
1500-100,000			1.0	30

3.2. Calculation method

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S: Power density(mW/cm²)

P: power input to antenna (Watt)

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

1) P (Watts)=(10 ^ (dBm /10))/1000

2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)

3) $\pi=3.142$

3.3. Test Result

Test mode	Maximum Conducted Output Power(dBm)	Tune-up Power(dBm)
b mode	11.18	11±1dBm
g mode	9.98	9±1dBm

n mode	10.18	10±1dBm
BLE	3.49	8±1dBm

The maximum power density at a distance of 0.2 m is shown as below:

Mode	Maximum Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Maximum E.I.R.P. (mW)	Power density (mW/cm ²)	Power density Limit (mW/cm ²)	Result
2.4G WIFI	12	-0.23	0.95	15.8489	0.0030	1	PASS

Note: The 2.4 WFI and Bluetooth can not transmitting simultaneously

3.4. Conclusion

According to 47 CFR 2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

**** End of Report ****