

TEST REPORT

FCC ID. :	2BR3K-STATION-G60	
Test Report No..... :	TCT251029E056	
Date of issue..... :	Nov. 10, 2025	
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..... :	HK EKO ELECTRONICS LIMITED	
Address..... :	FLAT/RM 1 14/F HENLEY INDUSTRIAL CENTRE, 9-15 BUTTE STREET, MONG KOK KL, HONGKONG, China	
Manufacturer's name ... :	HK EKO ELECTRONICS LIMITED	
Address..... :	FLAT/RM 1 14/F HENLEY INDUSTRIAL CENTRE, 9-15 BUTTE STREET, MONG KOK KL, HONGKONG, China	
Standard(s)	FCC CFR Title 47 Part 1.1307	
Product Name..... :	Base Station	
Trade Mark	N/A	
Model/Type reference..... :	G60, G10, G20, G30, G70, G80	
Rating(s)..... :	Adapter Information: MODEL: CY-02050200UW INPUT: AC 100-240V, 50/60Hz, 0.8A MAX OUTPUT: DC 5.0V, 2.0A 10.0W	
Date of receipt of test item	Oct. 29, 2025	
Date (s) of performance of test..... :	Oct. 29, 2025 ~ Nov. 10, 2025	
Tested by (+signature) ... :	Ronaldo LUO	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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Table of Contents

1. General Product Information	3
1.1. EUT description	3
1.2. Model(s) list.....	4
2. General Information.....	5
2.1. Test environment and mode.....	5
2.2. Description of Support Units.....	5
3. Facilities and Accreditations	6
3.1. Facilities	6
3.2. Location	6
4. Limit.....	7
5. Test Results and Measurement Data	8

1. General Product Information

1.1. EUT description

Product Name:	Base Station
Model/Type reference:	G60
Sample Number:	TCT251029E006-0101
Operation Frequency	STA Mode: For BLE: 2402MHz~2480MHz For 2.4G WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40)) For 5G WIFI: Band 1: 5180MHz~5240MHz AP Mode: For 2.4G WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Modulation Type:	STA Mode: For BLE: GFSK For 2.4G WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing (OFDM) For 5G WIFI: 64QAM, 16QAM, BPSK, QPSK AP Mode: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	STA Mode: For BLE/ 2.4G WIFI/ 5G WIFI: FPC Antenna AP Mode: For 2.4G WIFI: Rubber Duck Antenna
Antenna Gain:	STA Mode: For BLE/ 2.4G WIFI: 1.73dBi For 5G WIFI: 4.31dBi AP Mode: For 2.4G WIFI: 1.95dBi
Rating(s):	Adapter Information: MODEL: CY-02050200UW INPUT: AC 100~240V, 50/60Hz, 0.8A MAX OUTPUT: DC 5.0V, 2.0A 10.0W

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	G60	☒
Other models	G10, G20, G30, G70, G80	☐

Note: G60 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 G60 can represent the remaining models.

2. General Information

2.1. Test environment and mode

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

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)
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(i) LIMITS FOR OCCUPATIONAL/CONTROLLED EXPOSURE

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 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
300-1,500			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) **STA Mode:**

For BLE: The maximum output power for antenna is 5.34dBm (3.42mW) at 2480MHz, 1.73dBi antenna gain(with 1.49 numeric antenna gain.)

For 2.4G WIFI: The maximum output power for antenna is 13.46dBm (22.18mW) at 2437MHz, 1.73dBi antenna gain(with 1.49 numeric antenna gain.)

For 5G WIFI: The maximum output power for antenna is 14.49dBm (28.12mW) at 5240MHz, 4.31dBi antenna gain(with 2.70 numeric antenna gain.)

AP Mode:

For 2.4G WIFI: The maximum output power for antenna is 13.16dBm (20.70mW) at 2462MHz, 1.73dBi antenna gain(with 1.49 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

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

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: $S=0.000199 \times P \times G$

STA Mode:

Mode	Power (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm ²)	Limit (mW/cm ²)	Result
BLE	5.34	3.42	1.49	0.00101	1.00	PASS
2.4G WIFI	13.46	22.18	1.49	0.00658	1.00	
5G WIFI	14.49	28.12	2.70	0.01511	1.00	

AP Mode:

Mode	Power (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm ²)	Limit (mW/cm ²)	Result
2.4G WIFI	13.16	20.70	1.49	0.00614	1.00	PASS

The device contain transmitters (AP Mode & STA Mode) can transmit multiple transmission modes at the same time.

Maximum Emissions Level			
Mode	Total MPE	Limit	Result
2.4G WIFI (AP Mode) & BLE (STA Mode)	0.00715	1.0	Pass
2.4G WIFI (AP Mode) & 2.4G WIFI (STA Mode)	0.01272		
2.4G WIFI (AP Mode) & 5G WIFI (STA Mode)	0.02125		

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