TEST REPORT

Product Name	:	Light Quadcopter UAV
Brand Name	:	N/A
Model	:	P220 Pro
Series Model	:	P200, P220
Applicant	:	**GDU-Tech Co.,Ltd.**
Address	:	Building 1, Gaoke Innovation Park, No. 9 Keji 2nd Road, Donghu New Technology Development Zone, Wuhan, Hubei Province, China
Manufacturer	:	**GDU-Tech Co.,Ltd.**
Address	:	Building 1, Gaoke Innovation Park, No. 9 Keji 2nd Road, Donghu New Technology Development Zone, Wuhan, Hubei Province, China
Standard(s)	:	Article 2, paragraph 1, item 19-2-2
Date of Receipt	:	Jan. 27, 2026
Date of Test	:	Jan. 27, 2026~ Mar. 02, 2026
Issued Date	:	Mar. 02, 2026

Issued By: **Guangdong Asia Hongke Test Technology Limited**
B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Tel.: +86 0755-230967639 Fax.: +86 0755-230967639

Reviewed by: Aaron.Ye **Approved by:** Allen Wang

Aalen.Ye Allen Wang

Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.

Report Revise Record

Report Version	Issued Date	Notes
M0	Mar. 02, 2026	Initial Release

複製禁止

Contents

1 TEST SUMMARY 4

1.1 TEST STANDARDS 4
1.2 TEST SUMMARY 4
1.3 TEST FACILITY 5
1.4 MEASUREMENT UNCERTAINTY 5

2 GENERAL INFORMATION 6

2.1 ENVIRONMENTAL CONDITIONS 6
2.2 GENERAL DESCRIPTION OF EUT 6
2.3 DESCRIPTION OF TEST MODES AND TEST FREQUENCY 7
2.4 EQUIPMENT LIST FOR THE TEST 7
2.5 TABLE FOR PARAMETERS OF TEST SOFTWARE SETTING 8
2.6 TEST VOLTAGE 8

3 TEST CONDITIONS AND RESULTS 9

3.1 FREQUENCY ERROR 9
3.2 ANTENNA OUTPUT POWER AND OUTPUT POWER TOLERANCE 10
3.3 OCCUPIED BANDWIDTH 11
3.4 UNWANTED EMISSION STRENGTH 12
3.5 SECONDARY RADIATED EMISSION STRENGTH 13
3.6 CONSTRUCTION PROTECTION METHOD 14
3.7 CARRIER SENSE CAPABILITY 15
3.8 INTERFERENCE PREVENTION FUNCTION 16
3.9 NUMBER OF CARRIERS 17

4 TEST SETUP PHOTOGRAPHS OF EUT 18

5 PHOTOGRAPHS OF EUT 18

複製禁止

1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

MIC Notice No.88 Appendix No.43

1.2 Test Summary

Test Item	Result
Frequency Error	Pass
Antenna Output Power and Output Power Tolerance	Pass
Occupied Bandwidth	Pass
Unwanted Emission Strength	Pass
Secondary Radiated Emission Strength	Pass
Construction Protection Method	Pass
Carrier Sense Capability	N/A
Interference Prevention Function	Pass
Number of Carriers	Pass

複製禁止

1.3 Test Facility

Test Laboratory:
Guangdong Asia Hongke Test Technology Limited
B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:
FCC-Registration No.: 251906 Designation Number: CN1376
Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165
The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01
Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the Guangdong Asia Hongke Test Technology Limited’s quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.
Hereafter the best measurement capability for Asia Hongke laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	9KHz~30MHz ±1.20 dB	(1)
Radiated Emission	9KHz~30MHz ±3.10dB	(1)
Radiated Emission	30MHz ~1GHz ±3.75dB	(1)
Radiated Emission	1GHz~18GHz ±3.88 dB	(1)
Radiated Emission	18GHz-40GHz ±3.88dB	(1)
RF power, conducted	30MHz~6GHz ±0.16dB	(1)
RF power density, conducted	±0.24dB	(1)
Spurious emissions, conducted	±0.21dB	(1)
Temperature	±1℃	(1)
Humidity	±3%	(1)
DC and low frequency voltages	±1.5%	(1)
Time	±2%	(1)
Duty cycle	±2%	(1)

The report uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%

複製禁止

2 GENERAL INFORMATION

2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Voltage	Normal Voltage	DC 14.32V
	High Voltage	DC 15.75V
	Low Voltage	DC 12.89V
Other	Normal Temperature	25°C
	Relative Humidity	55 %
	Air Pressure	989 hPa

2.2 General Description of EUT

Product Name:	Light Quadcopter UAV
Model/Type reference:	P220 Pro
Serial Model:	P200, P220
Model different:	All the models are electrically identical with the same mechanical structure and design except the camera is different.
Power Supply:	Battery: DC 14.32V
	Adapter: Model: ACD-200 Input: AC 100-240V 5A(max) 50/60Hz Single mode: 17V⎓8A/16A; Type C 5V⎓3A; 9V⎓3A; 12V⎓3A; 15V⎓3A; 20V⎓5A Max; Double mode: 17V⎓8A/12A; Type C 5V⎓3A; 9V⎓3A; 12V⎓3A; 15V⎓3A; 20V⎓3.52A Max; Total Output Power: 272W
Hardware Version:	N/A
Software Version:	N/A
WIFI 2.4G	
Supported type:	802.11b/g/n(HT20)/ax(HEW20)
Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ax: OFDMA (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Operation frequency:	802.11b/g/n(HT20)/ax(HEW20):2412MHz~2472MHz
Channel number:	802.11b/g/n(HT20)/ax(HEW20): 13
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	ANT 1: 2.27dBi; ANT 2: 2.32dBi
Remark: The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	

複製禁止

2.3 Description of Test Modes and Test Frequency

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	**2412**	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	**13**	**2472**
7	**2442**		

Note: Test performed at the lowest/middle/highest frequencies selected in the list above for EUT supported while working on specified mode.

2.4 Equipment List for the Test

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyzer	Keysight	N9020A	MY51280643	2025.09.23	2026.09.22
2	DC Power supply	Manson	HCS-3604	G521100129	2025.09.23	2026.09.22
3	Digital Phosphor Oscilloscope	Tektronix	TDS3012	B021220	2025.09.23	2026.09.22
4	Signal Generator	Agilent	N5182A	MY50143009	2025.09.23	2026.09.22
5	Test software	TST	TST Pass	V2.0	N/A	N/A

Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law".
☐(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act.
☐(b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act.
☒(c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act.
☐(d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.

Cal. Lab: GUANGZHOULISAICALIBRATION AND TESTING CO.,LTD.

複製禁止

2.5 Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

Test Software Version	CMD Command		
Frequency	2412MHz	2442MHz	2472MHz
802.11b (20MHz)	Default	Default	Default
802.11g (20MHz)	Default	Default	Default
802.11n (20MHz)	Default	Default	Default
802.11ax (20MHz)	Default	Default	Default

2.6 Test Voltage

POWER SUPPLY VOLTAGE FLUCTUATION TEST

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Power supply	DC 14.32V	DC 15.75V	DC 12.89V
Output To RF Module	DC 3.30V	DC 3.30V	DC 3.30V
Voltage Variation (%)	--	--	--

Note:
Voltage Variation (%)
= (Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100
During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.
The sample power supply was confirmed that input voltage variation at the radio unit in the radio equipment to be tested is less than +1% against a variation of +10% at the input voltage from the external power supply to the radio equipment, and the radio equipment was designed so as to be operated in a specified voltage variation limit within +10%, Radio can only test at normal Voltage.

複製禁止

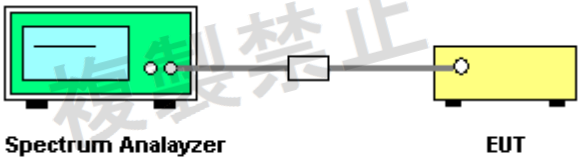
3 Test conditions and Results

3.1 Frequency Error

LIMIT

±50ppm

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: non-modulation

Spectrum Condition:

Frequency: test frequency

Span: 300 KHz

RBW: 10 KHz

VBW: 10 KHz

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

TEST RESULTS

Raw data reference to Appendix RF test data for WIFI 2.4G.

3.2 Antenna Output Power and Output Power Tolerance

LIMIT

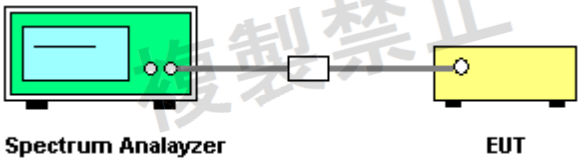
- ≤ 3 mW /MHz(FHSS from 2402-2480 MHz)
- ≤ 10 mW/MHz (OFDM, DSSS from 2400-2483.5 MHz)
- ≤ 5 mW/MHz (OFDM 26MHz≤ OBW≤ 40MHZ)
- ≤ 10 mW (other from 2400-2483.5 MHz)

The Output Power Tolerance must be within +20%, -∞%.
E.i.r.p:

- ≤6.91dBm/MHz(HFSS form 2400-2483.5MHz)
- ≤12.14dBm/MHz(OFDM,DS form 2400-2483.5MHz)
- ≤9.13dBm/MHz(OFDM 26MHz≤ OBW≤ 40MHz)
- ≤ 12.14dBm(other from 2400-2483.5 MHz)

Note: E.I.R.P will not be applied to the transmission antenna which has a gain of 2.14dBi or less.

TEST CONFIGURATION



TEST PROCEDURE

Step 1:
Connect the UUT to the spectrum analyzer as TEST CONFIGURATION and use the following settings:

- Centre Frequency: The centre frequency of the channel under test.
- RBW: 1 MHz
- VBW: 1 MHz
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak
- Trace Mode: Max Hold

Step 2:
When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3:
Make the following changes to the settings of the spectrum analyzer:

- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: 0 MHz
- RBW: 1 MHz
- VBW: 1 MHz
- Detector: RMS
- Trace Mode: Clear Write

TEST RESULTS

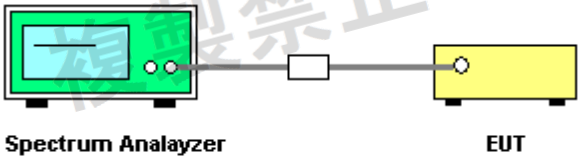
Raw data reference to Appendix RF test data for WIFI 2.4G.

3.3 Occupied Bandwidth

LIMIT

• Occupied bandwidth: FH≤83.5 MHz; OFDM(802.11n(HT40)):26-40MHz;OFDM(802.11g/n(HT20))≤ 26MHz, DS≤26 MHz; Others≤26 MHz
• Spread Bandwidth:≥ 500 kHz(FH,DS)
• Spread factor>5.

TEST CONFIGURATION



TEST PROCEDURE

1. Setting of SA is following as fellow:
   RBW: 300 kHz
   VB: 300 kHz
   Sweep time: Auto
   Sweep Mode: Continuous sweep
   Detect mode: Positive peak
   Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.

TEST RESULTS

Raw data reference to Appendix RF test data for WIFI 2.4G.

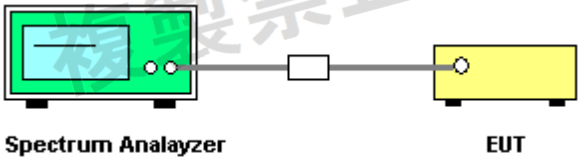
複製禁止

3.4 Unwanted Emission Strength

LIMIT

Below 2387 MHz: 2.5μW/MHz or less
2387 to 2400 MHz: 25μW/MHz or less
2483.5 Through 2496.5 MHz: 25μW/MHz or less
Over 2496.5 MHz: 2.5μW/MHz or less

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-12.5GHz

RBW: 1MHz (30MHz-12.5GHz)

VBW: 1MHz (30MHz-12.5GHz)

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

TEST RESULTS

Raw data reference to Appendix RF test data for WIFI 2.4G.

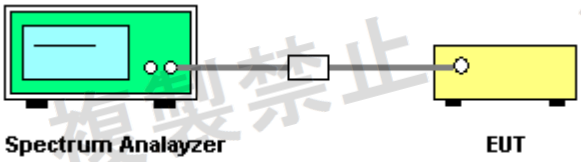
複製禁止

3.5 Secondary Radiated Emission Strength

LIMIT

Below 1GHz: 4.0nW or less
Above 1GHz: 20nW or less

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-12.5GHz

RBW: 100 KHz (30MHz-1GHz), 1MHz (1GHz-12.5GHz)

VBW: 100 KHz (30MHz-1GHz), 1MHz (1GHz-12.5GHz)

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

TEST RESULTS

Raw data reference to Appendix RF test data for WIFI 2.4G.

複製禁止

3.6 Construction protection method

Requirement

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily

Confirmation method

The high-frequency section and modulation section use SMT technology, not easy to change. (The chip have more than 10 chip pins, less than 1.5mm pin distance.)

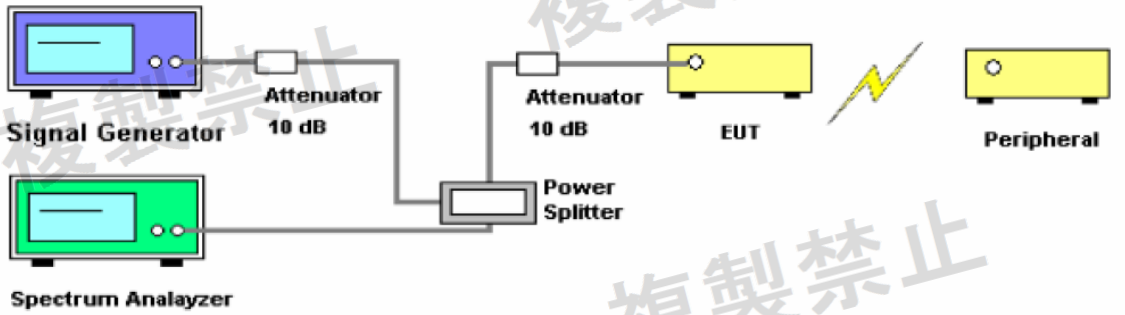
複製禁止

3.7 Carrier Sense Capability

Limit

EUT stop RF transmission signal after carrier inject to EUT for the OFDM system with occupied frequency bandwidth below 38MHz and exceed 26MHz.

TEST CONFIGURATION



TEST PROCEDURE

1. Set The EUT state in “normal mode link with wireless router”.
2. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on 22.79+G-20*log (f) dBm)(G is the antenna gain is the test frequency).
3. Turn off the RF signal of the SG.
4. EUT have transmitted the maximum modulation signal and fixed channelize.
5. Setting the spectrum as fellow :
   RBW/VBW=1MHz/1MHz
   Span=50MHz
   Sweep time=auto
   Sweep mode=continuous
   Detect mode=positive peak
6. SG RF signal on.
7. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

TEST RESULTS

Not applicable

3.8 Interference Prevention Function

Requirement

Clarify, the one automatically to transmit and to receive identification code with the wireless equipment of the wireless station used in the same premises.

Interference Prevention Function Confirm

A communication link was made where the ID code is correct (Identical).

TEST PROCEDURE

1. Connect the EUT in network
2. Open the software
3. We can get the information as follows:

TEST RESULTS

MAC: ff:3e:af:e0:26:5d

複製禁止

3.9 Number of Carriers

LIMIT

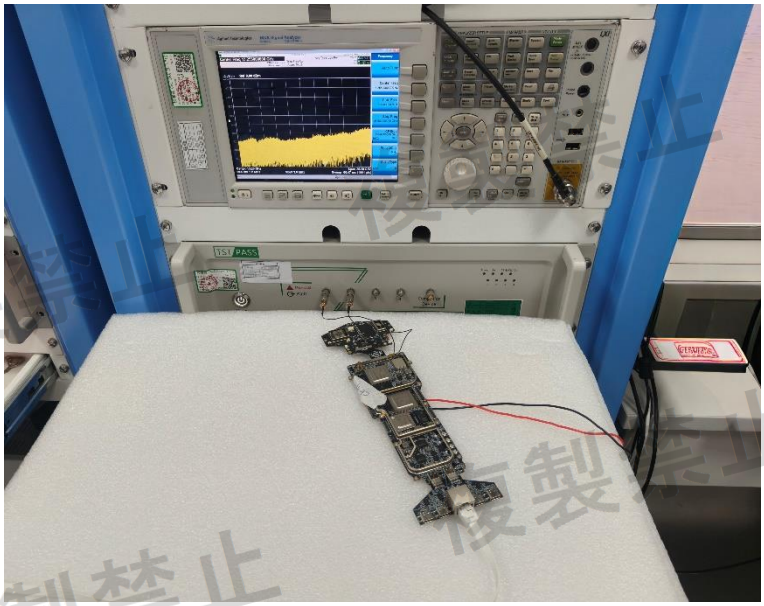
The number of carriers:1 or more/MHz

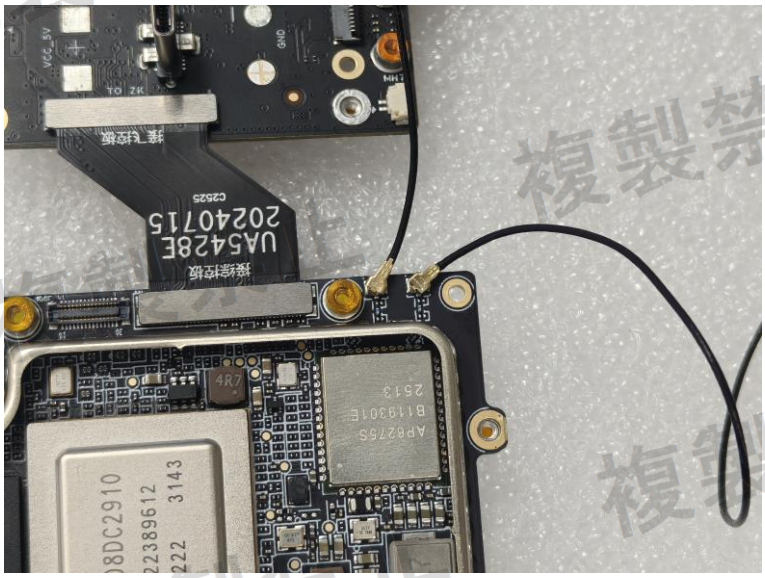
TEST RESULTS

This device has more than 1 sub-carrier in 1MHz, compliances with the requirement.

複製禁止

4 Test Setup Photographs of EUT





5 Photographs of EUT

Refer to Appendix for EUT PHOTO.

********** End of Report **********

複製禁止