

E&E

MPE TEST REPORT

| Applicant | High-Flying Electronics Technology Co., Ltd. |
|------------|--|
| FCC ID | 2ACSVHF-LPT6200 |
| Product | Low Power 2.4GWi-Fi6 + BLE Module |
| Model | HF-LPT6200 |
| Report No. | R2210A0966-M1 |
| Issue Date | February 24, 2023 |

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 1.1310.** The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Wei Fangying

Fan Guangchang

Prepared by: Wei Fangying

Approved by: Fan Guangchang

TA Technology (Shanghai) Co., Ltd. Building 3, No. 145, Jintang Rd, Pudong Shanghai, P.R.China

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China TEL: +86-021-50791141/2/3 FAX: +86-021-50791141/2/3-8000

Table of Contents

| 1 | Tes | t Laboratory | 3 |
|---|------|--|---|
| | 1.1 | Notes of the Test Report | 3 |
| | 1.2 | Test Facility | 3 |
| | 1.3 | Testing Location | 3 |
| | 1.4 | Laboratory Environment | 3 |
| 2 | Des | scription of Equipment Under Test | 4 |
| 3 | Max | ximum Output Power (Measured) and Antenna Gain | 5 |
| 4 | Tes | t Result | 6 |
| A | NNEX | A: The EUT Appearance | 9 |
| | | | |

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of TA Technology

(Shanghai) Co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

| Company: | TA Technology (Shanghai) Co., Ltd. |
|------------|--|
| Address: | Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China |
| City: | Shanghai |
| Post code: | 201201 |
| Country: | P. R. China |
| Contact: | Fan Guangchang |
| Telephone: | +86-021-50791141/2/3 |
| Fax: | +86-021-50791141/2/3-8000 |
| | |
| Website: | http://www.ta-shanghai.com |

1.4 Laboratory Environment

| Temperature | Min. = 18°C, Max. = 25 °C | | | |
|---|---------------------------|--|--|--|
| Relative humidity | Min. = 30%, Max. = 70% | | | |
| Ground system resistance | < 0.5 Ω | | | |
| Ambient noise is checked and found very low and in compliance with requirement of standards. | | | | |
| Reflection of surrounding objects is minimized and in compliance with requirement of standards. | | | | |

2 Description of Equipment Under Test

Client Information

| Applicant High-Flying Electronics Technology Co., Ltd. | | | |
|--|--|--|--|
| Applicant address | Building 17, No.1500 Zu Chongzhi Road, Pudong District, Shanghai, China | | |
| Manufacturer | Shandong Qipengfa Electronics Technology Co. LTD | | |
| Manufacturer address | East Road 800 meters south of government, Nanzheng Village, Nanluji Town, Chengwu County, Heze City, Shandong Province | | |

General Technologies

| Model | HF-LPT6200 |
|-------------------------|-------------------|
| MAC | E8FDF8B9E0F0 |
| Hardware Version | V1.0 |
| Software Version | V1.0 |
| Date of Sample Received | November 14, 2022 |

Note:

1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.

2. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai)

Co., Ltd. based on interpretations and/or observations of test results. Measurement

Uncertainties were not taken into account and are published for informational purposes only.

3 Maximum Output Power (Measured) and Antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by Numeric gain (G)= $10^{(antenna gain/10)}$

| Band | Maximum Ou | tput Power | Antenna Gain | Numeric Gain | |
|------------------------|------------|------------|--------------|--------------|--|
| | (dBm) | (mW) | (dBi) | | |
| Wi-Fi 2.4G | 18.47 | 70.307 | 0.75 | 1.189 | |
| Bluetooth (Low Energy) | 6.95 | 4.955 | 0.75 | 1.189 | |

4 Test Result

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure

(MPE) are as following.

| Frequency Range | Electric Field | Electric Field Magnetic Field | | Averaging Time | |
|-----------------|---------------------|-------------------------------|-----------------|----------------------|--|
| (MHz) | Strength | Strength | | | |
| 85.000 VM | (V/m) | (A/m) | (mW/cm2) | (minutes) | |
| | (A) Limits for Occu | upational/Controlle | d Exposures | i Sector a Sector IV | |
| 0.3-3.0 | 614 | 1.63 | *(100) | 6 | |
| 3-30 | 1842/f | 4.89/f | *(900/f2) | 6 | |
| 30-300 | | | 1.0 | 6 | |
| 300-1500 |)-1500 | | f/300 | 6 | |
| 500-100,000 | | | | 6 | |
| (B) | Limits for General | Population/Uncont | rolled Exposure | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 | |
| 1.34-30 824/f | | 2.19/f | *(180/f2) | 30 | |
| 30-300 | D-300 27.5 | | 0.2 | 30 | |
| 300-1500 | | | f/1500 | 30 | |
| 1500-100,000 | | | 1.0 | 30 | |

f = frequency in MHz

* = Plane-wave equivalent power density

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

🔅 eurofins

E&E MPE Test Report

Report No.: R2210A0966-M1

The maximum permissible exposure for 300~1500 MHz is f/1500, for 1500~100,000MHz is 1.0. So

| Band | The Maximum Permissible Exposure (mW/cm ²) | | | |
|--------------|--|--|--|--|
| Wi-Fi 2.4GHz | 1.000 | | | |
| Bluetooth | 1.000 | | | |

🔅 eurofins

E&E MPE Test Report

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided. This calculation is based on the conducted power, considering maximum power and antenna gain. The formula shown in KDB 447498 D01 is used in the calculation.

Equation from KDB 447498 D01 General RF Exposure Guidance v06 (10/23/2015) is:

$S = PG / 4\pi R^2$

Where: S = power density (in appropriate units, e.g. mW/cm^{2})

P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)

G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

| Band | Maximum Output Power (dBm) | Antenna Gain (dBi) | Maximum EIRP (dBm) | PG (mW) | Test Result (mW/cm ²) | Limit Value (mW/cm ²) |
|--|----------------------------------|--------------------------|--------------------------|------------|---|--------------------------------------|
| Wi-Fi 2.4GHz | 18.47 | 0.75 | 19.220 | 83.560 | 0.017 | 1.000 |
| Bluetooth | 6.95 | 0.75 | 7.700 | 5.888 | 0.001 | 1.000 |
| Note: R = 20cm π = 3.1416 | | | • | | · | |

Bluetooth antenna and Wi-Fi 2.4G antenna can't transmit simultaneously.

Note: For transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

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

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.