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APPLICATION CERTIFICATION FCC Part 15C On Behalf of ZEGO ELECTRONIC COMPANY LIMITED

HoverJet (F22) Model No.: RGR4120/2232

FCC ID: 2ACS626TX

Prepared for : ZEGO ELECTRONIC COMPANY LIMITED

Address : ROOM 703, KOWLOON BUILDING, 555 NATHAN

ROAD, KOWLOON, HONG KONG

Prepared by : Shenzhen Accurate Technology Co., Ltd.

Address : 1/F., Building A, Changyuan New Material Port, Science

& Industry Park, Nanshan District, Shenzhen, Guangdong,

P.R. China

Tel: (0755) 26503290 Fax: (0755) 26503396

Report Number : ATE20180363

Date of Test : March 23-March 26, 2018

Date of Report : March 28, 2018





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Test Report Certification

Applicant : ZEGO ELECTRONIC COMPANY LIMITED

Address : ROOM 703, KOWLOON BUILDING, 555 NATHAN ROAD,

KOWLOON, HONG KONG

Manufacturer : Shenzhen Yangri Electronic Company Limited

Address : The Third Industrial Area, Luotian community, Songgang town,

Shenzhen City, China

Product : HoverJet (F22)

Model No. : RGR4120/2232

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.10: 2013

The EUT was tested according to FCC 47CFR 15.249 for compliance to FCC 47CFR 15.249 requirements

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 limits. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

| Date of Test: | March 23-March 26, 2018 |
|-------------------------------|--|
| Date of Report : | March 28, 2018 |
| Prepared by : | (SAYYang, En, Approved Approve |
| Approved & Authorized Signer: | (em) |
| | (Sean Liu, Manager) |



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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : HoverJet (F22)

Model Number : RGR4120/2232

Frequency Range : 2420MHz-2460MHz

Number of Channels : 41

Modulation mode : GFSK

Antenna Gain : 0dBi

Antenna type : Integral Antenna

Power Supply : DC 4.5V

Applicant : ZEGO ELECTRONIC COMPANY LIMITED

Address : ROOM 703, KOWLOON BUILDING, 555 NATHAN

ROAD, KOWLOON, HONG KONG

Manufacturer : Shenzhen Yangri Electronic Company Limited

Address : The Third Industrial Area, Luotian community, Songgang

town, Shenzhen City, China

Date of sample received: March 14, 2018

Date of Test : March 23-March 26, 2018

1.2. Frequency List

| 2420 | 2421 | 2422 | 2423 | 2424 |
|------|------|------|------|------|
| 2425 | 2426 | 2427 | 2428 | 2429 |
| 2430 | 2431 | 2432 | 2433 | 2434 |
| 2435 | 2436 | 2437 | 2438 | 2439 |
| 2440 | 2441 | 2442 | 2443 | 2444 |
| 2445 | 2446 | 2447 | 2448 | 2449 |
| 2450 | 2451 | 2452 | 2453 | 2454 |
| 2455 | 2456 | 2457 | 2458 | 2459 |
| 2460 | | | | |

1.3. Special Accessory and Auxiliary Equipment

N/A





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1.4. Description of Test Facility

EMC Lab Recognition of accreditation by Federal Communications

Commission (FCC)

The Designation Number is CN1189 The Registration Number is 708358

Listed by Innovation, Science and Economic Development

Canada (ISEDC)

The Registration Number is 5077A-2

Accredited by China National Accreditation Service for

Conformity Assessment (CNAS)

The Registration Number is CNAS L3193

Accredited by American Association for Laboratory

Accreditation (A2LA)

The Certificate Number is 4297.01

Name of Firm Shenzhen Accurate Technology Co., Ltd.

Site Location 1/F., Building A, Changyuan New Material Port, Science

& Industry Park, Nanshan District, Shenzhen, Guangdong,

P.R. China

1.5. Measurement Uncertainty

Conducted Emission Expanded Uncertainty 2.23dB, k=2

Radiated emission expanded uncertainty 3.08dB, k=2

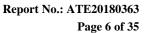
(9kHz-30MHz)

Radiated emission expanded uncertainty 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty 4.06dB, k=2

(Above 1GHz)

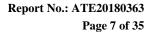




2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

| Kind of equipment | Manufacturer | Туре | S/N | Calibrated dates | Cal. Interval |
|--------------------|---------------------------|---|------------|------------------|---------------|
| EMI Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | Jan. 06, 2018 | One Year |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | Jan. 06, 2018 | One Year |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan. 06, 2018 | One Year |
| Pre-Amplifier | Rohde&Schwarz | CBLU118354 0-01 | 3791 | Jan. 06, 2018 | One Year |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan. 12, 2018 | One Year |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan. 12, 2018 | One Year |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan. 12, 2018 | One Year |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-1067 | Jan. 12, 2018 | One Year |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | Jan. 06, 2018 | One Year |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | Jan. 06, 2018 | One Year |
| Highpass Filter | Wainwright Instruments | WHKX3.6/18 G-10SS | N/A | Jan. 06, 2018 | One Year |
| Band Reject Filter | Wainwright Instruments | WRCG2400/2 485-2375/2510 -60/11SS | N/A | Jan. 06, 2018 | One Year |





3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

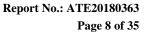
The mode is used: **Transmitting mode**

Low Channel: 2420MHz Middle Channel: 2440MHz High Channel: 2460MHz

3.2. Configuration and peripherals

EUT

Figure 1 Setup: Transmitting mode





4. TEST PROCEDURES AND RESULTS

| FCC Rules | Description of Test | Result |
|--|---------------------------------------|-----------|
| Section 15.215(c) | 20dB Bandwidth | Compliant |
| Section 15.249(d) | Band Edge Compliance Test | Compliant |
| Section 15.205(a), Section 15.209(a), Section 15.249, Section 15.35 | Radiated Spurious Emission Test | Compliant |
| Section 15.207 | AC Power Line Conducted Emission Test | N/A |
| Section 15.203 | Antenna Requirement | Compliant |

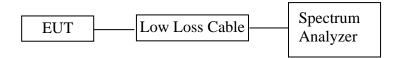
Note: The power supply mode of the EUT is DC 4.5V, According to the FCC standard requirements, conducted emission is not applicable.





5. 20DB BANDWIDTH MEASUREMENT

5.1.Block Diagram of Test Setup



5.2. The Requirement For Section 15.215(c)

The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset while the long-term distribution appears evenly distributed.

5.3. Operating Condition of EUT

- 5.3.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.3.2. Turn on the power of all equipment.
- 5.3.3.Let the EUT work in TX modes measure it. The transmit frequency are 2420, 2440, 2460MHz.

5.4.Test Procedure

- 5.4.1. Place the EUT on the table and set it in transmitting mode.
- 5.4.2.Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 5.4.3.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz, Detector function=peak, Trace=max hold, Sweep=auto.
- 5.4.4.Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.



5.5.Test Result

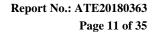
| Channel | Frequency(MHz) | 20 dB Bandwidth(MHz) |
|---------|----------------|-------------------------|
| Low | 2420 | 2.604 |
| Middle | 2440 | 2.604 |
| High | 2460 | 2.604 |

The spectrum analyzer plots are attached as below.

Low channel

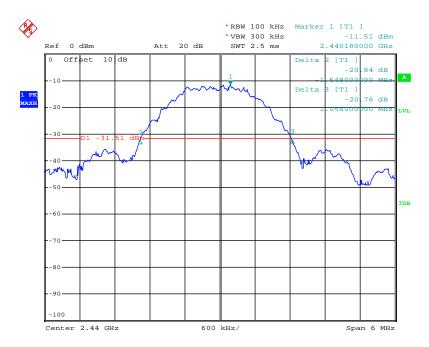


Date: 23.MAR.2018 14:01:23



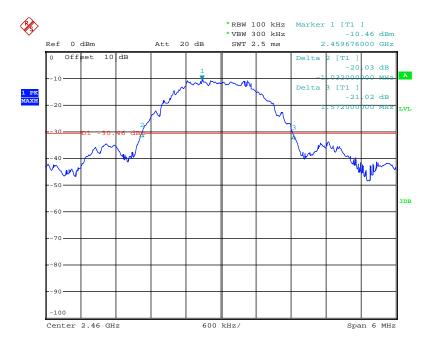


Middle channel



Date: 23.MAR.2018 13:57:51

High channel



Date: 23.MAR.2018 13:55:05

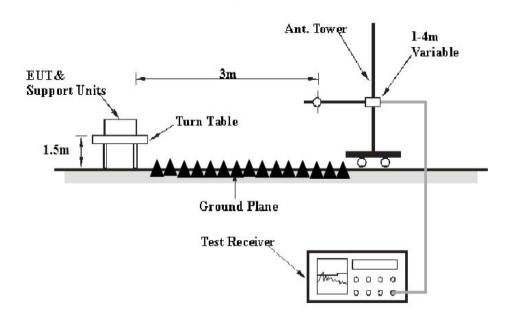


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6. BAND EDGE COMPLIANCE TEST

6.1.Block Diagram of Test Setup

(C) Radiated Emission Test Set-Up, Frequency above 1GHz



6.2. The Requirement For Section 15.249

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

6.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

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6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT and simulator as shown as Section 6.1.
- 6.4.2.Turn on the power of all equipment.
- 6.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2420, 2460MHz.

6.5. Test Procedure

Radiate Band Edge:

- 6.5.1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
- 6.5.2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 6.5.3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 6.5.4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

6.5.5. The band edges was measured and recorded.

6.6.Test Result

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

- 3. Display the measurement of peak values.
- 4. The average measurement was not performed when peak measured data under the limit of average detection.

The spectrum analyzer plots are attached as below.





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Horizontal

Time: 14:45:58

Distance: 3m

Report No.: ATE20180363

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Job No.: STAR2018 #112 Polarization: Standard: FCC PK

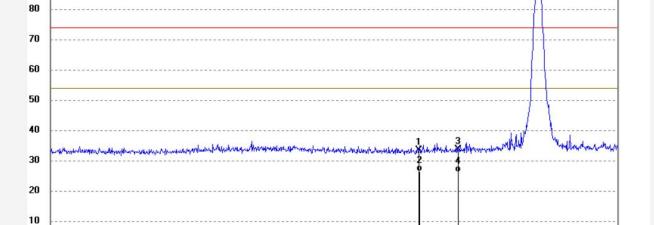
Power Source: DC 4.5V Test item: Radiation Test Date: 2018/03/26

Temp.(C)/Hum.(%) 25 C / 55 % EUT: HoverJet (F22) Engineer Signature: star

Mode: TX 2420MHz Model: RGR4120/2232 Manufacturer: YangRi

Note: Report No.:ATE20180363





| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2390.000 | 41.32 | -8.00 | 33.32 | 74.00 | -40.68 | peak | 200 | 112 | |
| 2 | 2390.000 | 34.46 | -8.00 | 26.46 | 54.00 | -27.54 | AVG | 200 | 49 | |
| 3 | 2400.000 | 41.60 | -7.97 | 33.63 | 74.00 | -40.37 | peak | 200 | 269 | |
| 4 | 2400.000 | 34.02 | -7.97 | 26.05 | 54.00 | -27.95 | AVG | 200 | 198 | |

0.0

2300.000

2440.0 MHz



a

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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: STAR2018 #111

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: HoverJet (F22)

Mode: TX 2420MHz Model: RGR4120/2232 Manufacturer: YangRi

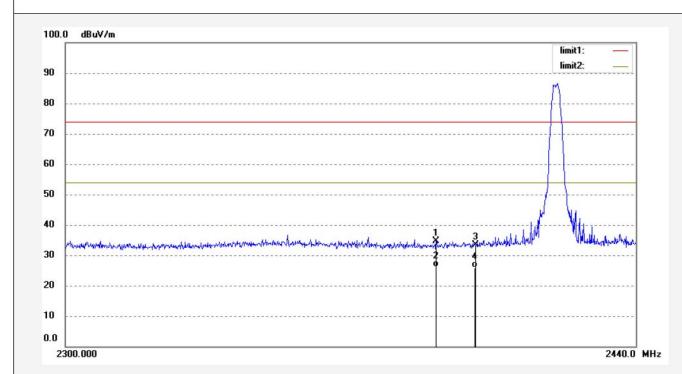
Note: Report No.:ATE20180363

Polarization: Vertical

Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:44:27

Engineer Signature: star



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2390.000 | 42.75 | -8.00 | 34.75 | 74.00 | -39.25 | peak | 150 | 177 | |
| 2 | 2390.000 | 34.14 | -8.00 | 26.14 | 54.00 | -27.86 | AVG | 150 | 213 | |
| 3 | 2400.000 | 41.25 | -7.97 | 33.28 | 74.00 | -40.72 | peak | 150 | 99 | |
| 4 | 2400.000 | 33.90 | -7.97 | 25.93 | 54.00 | -28.07 | AVG | 150 | 114 | |





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

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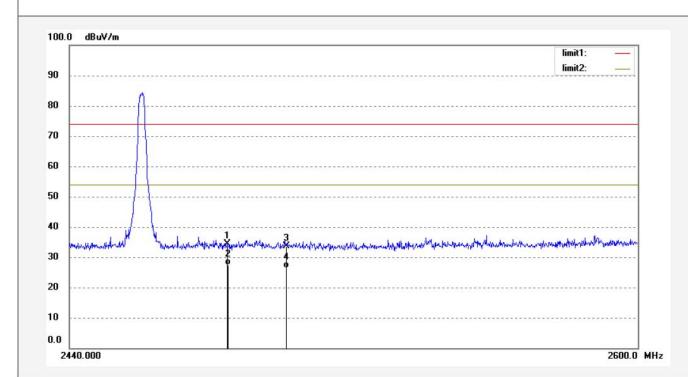
Job No.: STAR2018 #109 Polarization: Horizontal Standard: FCC PK Power Source: DC 4.5V

Test item: Radiation Test Date: 2018/03/26
Temp.(C)/Hum.(%) 25 C / 55 % Time: 14:41:10

EUT: HoverJet (F22) Engineer Signature: star
Mode: TX 2460MHz Distance: 3m

Mode: TX 2460MHz
Model: RGR4120/2232
Manufacturer: YangRi

Note: Report No.:ATE20180363



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2483.500 | 42.09 | -7.76 | 34.33 | 74.00 | -39.67 | peak | 200 | 168 | |
| 2 | 2483.500 | 35.19 | -7.76 | 27.43 | 54.00 | -26.57 | AVG | 200 | 52 | |
| 3 | 2500.000 | 41.43 | -7.71 | 33.72 | 74.00 | -40.28 | peak | 200 | 102 | |
| 4 | 2500.000 | 33.98 | -7.71 | 26.27 | 54.00 | -27.73 | AVG | 200 | 46 | |



ACCL

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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: STAR2018 #110

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: HoverJet (F22) Mode: TX 2460MHz

Model: RGR4120/2232 Manufacturer: YangRi

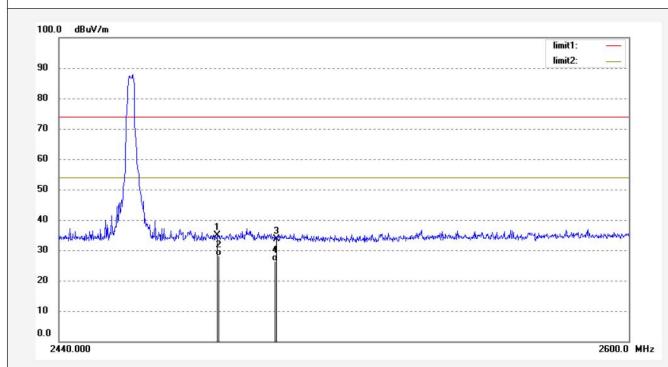
Note: Report No.:ATE20180363

Polarization: Vertical

Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:42:43

Engineer Signature: star



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2483.500 | 42.52 | -7.76 | 34.76 | 74.00 | -39.24 | peak | 150 | 187 | |
| 2 | 2483.500 | 35.99 | -7.76 | 28.23 | 54.00 | -25.77 | AVG | 150 | 200 | |
| 3 | 2500.000 | 41.27 | -7.71 | 33.56 | 74.00 | -40.44 | peak | 150 | 239 | |
| 4 | 2500.000 | 34.04 | -7.71 | 26.33 | 54.00 | -27.67 | AVG | 150 | 258 | |

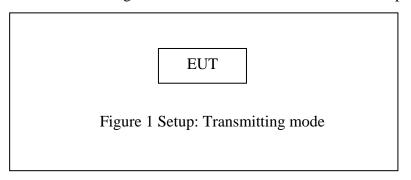
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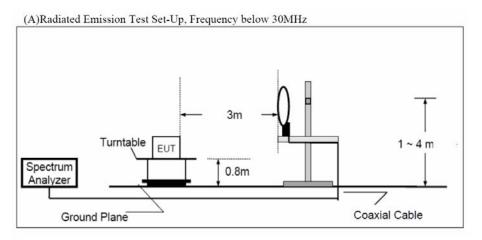
7. RADIATED SPURIOUS EMISSION TEST

7.1.Block Diagram of Test Setup

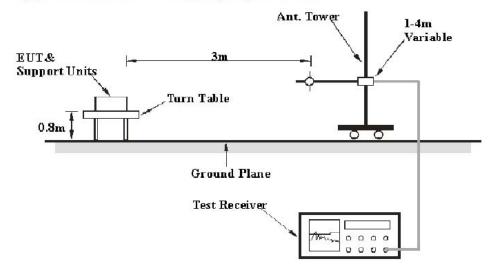
7.1.1.Block diagram of connection between the EUT and peripherals



7.1.2.Semi-Anechoic Chamber Test Setup Diagram



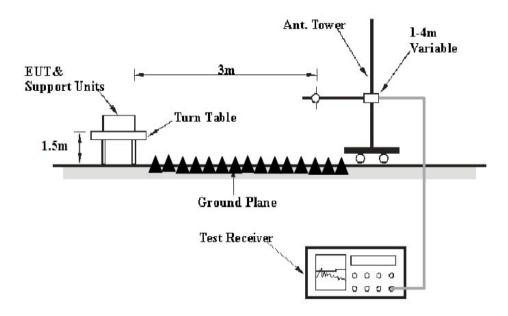
(B)Radiated Emission Test Set-Up, Frequency 30MHz-1GHz





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(C) Radiated Emission Test Set-Up, Frequency above 1GHz



7.2. The Limit For Section 15.249

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).



7.3. Restricted bands of operation

7.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|---------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | $\binom{2}{}$ |
| 13.36-13.41 | | | |

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

7.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

²Above 38.6

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7.5. Operating Condition of EUT

- 7.5.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.5.2. Turn on the power of all equipment.
- 7.5.3.Let the EUT work in TX modes and measure it. The transmit frequency are 2420, 2440, 2460MHz.

7.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter(Below 1GHz) and 1.5m(above 1GHz) high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated emission measurement. This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 26.5GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz Peak detector above 1GHz RBW (1 MHz), VBW (3MHz) for Peak measurement RBW (1 MHz), VBW (10Hz) for AV measurement





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7.7. Data Sample

| Frequency | Reading | Factor | Result | Limit | Margin | Remark |
|-----------|---------|--------|----------|---------------|--------|--------|
| (MHz) | (dBµv) | (dB/m) | (dBµv/m) | $(dB\mu v/m)$ | (dB) | |
| X.XX | 48.69 | -13.35 | 35.34 | 46 | -10.66 | QP |

Frequency(MHz) = Emission frequency in MHz

Reading($dB\mu\nu$) = Uncorrected Analyzer/Receiver reading

Factor (dB/m) = Antenna factor + Cable Loss - Amplifier gain

Result($dB\mu v/m$) = Reading($dB\mu v$) + Factor(dB/m)

Limit $(dB\mu v/m) = Limit$ stated in standard

Margin (dB) = Result(dB μ v/m) - Limit (dB μ v/m)

QP = Quasi-peak Reading

Calculation Formula:

 $Margin(dB) = Result (dB\mu V/m) - Limit(dB\mu V/m)$

Result($dB\mu V/m$)= Reading($dB\mu V$)+ Factor(dB/m)

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

7.8. The Field Strength of Radiation Emission Measurement Results PASS.

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

- 2. *: Denotes restricted band of operation.
- 3. The EUT is tested radiation emission in three axes. The worst emissions are reported in all channels.
- 4. The radiation emissions from 9KHz-30MHz and 18GHz-26.5GHz are not reported, because the test values lower than the limits of 20dB.

The spectrum analyzer plots are attached as below.



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Site: 1# Chamber Tel:+86-0755-26503290

Below 1GHz



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arization: Horizontal

Job No.: STAR2018 #97 Polarization: Horizontal Standard: FCC Class C 3M Radiated Power Source: DC 4.5V

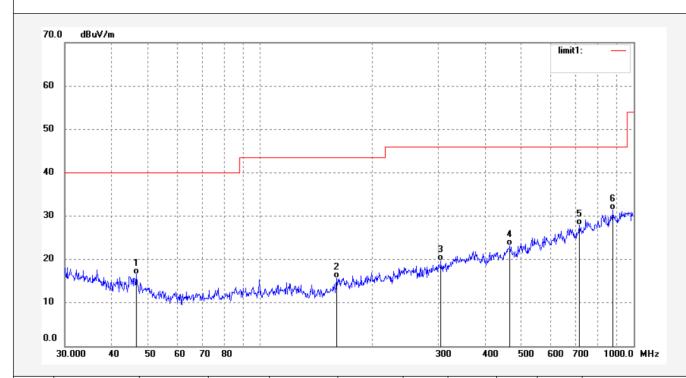
 Test item:
 Radiation Test
 Date: 2018/03/26

 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 14:17:03

EUT: HoverJet (F22) Engineer Signature: star Mode: TX 2420MHz Distance: 3m

Model: RGR4120/2232 Manufacturer: YangRi

Note: Report No.:ATE20180363



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|-----------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 46.7077 | 36.33 | -19.83 | 16.50 | 40.00 | -23.50 | QP | 200 | 135 | |
| 2 | 160.3209 | 37.04 | -21.31 | 15.73 | 43.50 | -27.77 | QP | 200 | 204 | |
| 3 | 304.9548 | 35.86 | -16.16 | 19.70 | 46.00 | -26.30 | QP | 200 | 196 | |
| 4 | 466.5230 | 35.82 | -12.61 | 23.21 | 46.00 | -22.79 | QP | 200 | 330 | |
| 5 | 716.2038 | 35.49 | -7.58 | 27.91 | 46.00 | -18.09 | QP | 200 | 256 | |
| 6 | 878.0931 | 35.98 | -4.54 | 31.44 | 46.00 | -14.56 | QP | 200 | 103 | |





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Report No.: ATE20180363

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Job No.: STAR2018 #98 Polarization: Vertical
Standard: FCC Class C 3M Radiated Power Source: DC 4.5V

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14:17:48

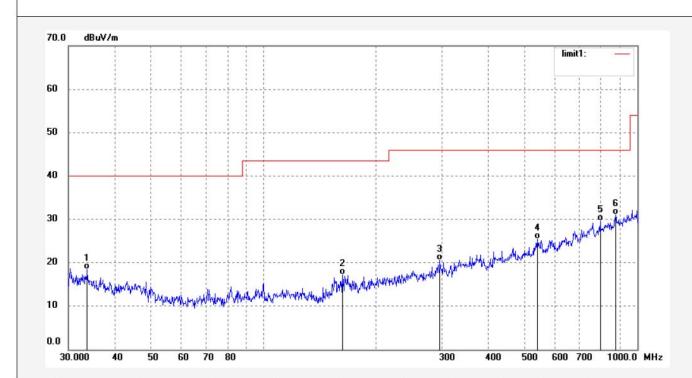
EUT: HoverJet (F22) Engineer Signature: star Mode: TX 2420MHz Distance: 3m

Mode: TX 2420MHz

Model: RGR4120/2232

Manufacturer: YangRi

Note: Report No.:ATE20180363



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 33.6881 | 35.83 | -17.32 | 18.51 | 40.00 | -21.49 | QP | 100 | 46 | |
| 2 | 162.5900 | 38.34 | -21.07 | 17.27 | 43.50 | -26.23 | QP | 100 | 103 | |
| 3 | 296.5023 | 36.97 | -16.34 | 20.63 | 46.00 | -25.37 | QP | 100 | 58 | |
| 4 | 540.7072 | 36.86 | -11.32 | 25.54 | 46.00 | -20.46 | QP | 100 | 111 | |
| 5 | 795.8194 | 35.62 | -5.95 | 29.67 | 46.00 | -16.33 | QP | 100 | 256 | |
| 6 | 875.0133 | 35.60 | -4.61 | 30.99 | 46.00 | -15.01 | QP | 100 | 301 | |





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Job No.: STAR2018 #100

Standard: FCC Class C 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

Report No.:ATE20180363

EUT: HoverJet (F22) Mode:

TX 2440MHz Model: RGR4120/2232 Manufacturer: YangRi

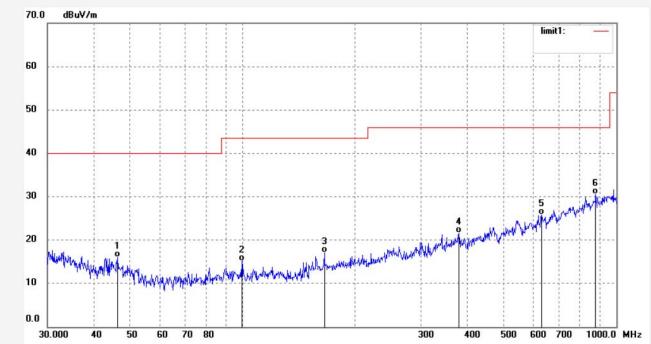
Note:

Polarization: Horizontal

Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:20:20

Engineer Signature: star



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 46.2180 | 35.67 | -19.70 | 15.97 | 40.00 | -24.03 | QP | 200 | 156 | |
| 2 | 99.4177 | 36.86 | -21.67 | 15.19 | 43.50 | -28.31 | QP | 200 | 122 | |
| 3 | 165.4716 | 37.75 | -20.77 | 16.98 | 43.50 | -26.52 | QP | 200 | 103 | |
| 4 | 379.1780 | 35.82 | -14.15 | 21.67 | 46.00 | -24.33 | QP | 200 | 28 | |
| 5 | 631.1070 | 35.05 | -9.24 | 25.81 | 46.00 | -20.19 | QP | 200 | 300 | |
| 6 | 881.1838 | 35.11 | -4.49 | 30.62 | 46.00 | -15.38 | QP | 200 | 153 | |





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Job No.: STAR2018 #99

Standard: FCC Class C 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: HoverJet (F22) Mode: TX 2440MHz

Model: RGR4120/2232 Manufacturer: YangRi

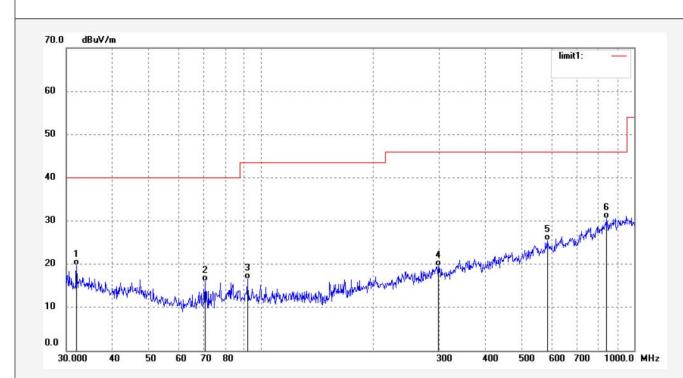
Note: Report No.:ATE20180363

Polarization: Vertical

Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:18:42

Engineer Signature: star



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 31.9586 | 36.82 | -17.07 | 19.75 | 40.00 | -20.25 | QP | 100 | 162 | |
| 2 | 70.7047 | 38.98 | -22.89 | 16.09 | 40.00 | -23.91 | QP | 100 | 255 | |
| 3 | 92.0223 | 38.22 | -21.75 | 16.47 | 43.50 | -27.03 | QP | 100 | 172 | |
| 4 | 298.5932 | 35.73 | -16.30 | 19.43 | 46.00 | -26.57 | QP | 100 | 136 | |
| 5 | 584.1611 | 35.76 | -10.27 | 25.49 | 46.00 | -20.51 | QP | 100 | 89 | |
| 6 | 844.8028 | 35.64 | -5.15 | 30.49 | 46.00 | -15.51 | QP | 100 | 130 | |





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Job No.: STAR2018 #101

Standard: FCC Class C 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: HoverJet (F22) Mode: TX 2460MHz

Model: RGR4120/2232 Manufacturer: YangRi

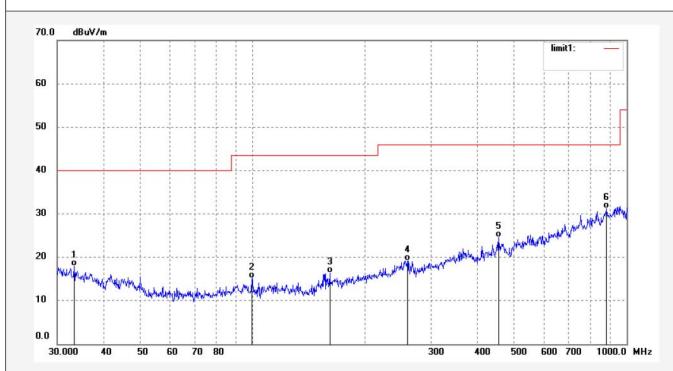
Note: Report No.:ATE20180363

Polarization: Horizontal

Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:21:20

Engineer Signature: star



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 33.3348 | 35.22 | -17.27 | 17.95 | 40.00 | -22.05 | QP | 200 | 155 | |
| 2 | 99.4176 | 36.88 | -21.67 | 15.21 | 43.50 | -28.29 | QP | 200 | 139 | |
| 3 | 160.8851 | 37.64 | -21.25 | 16.39 | 43.50 | -27.11 | QP | 200 | 203 | |
| 4 | 259.4433 | 36.76 | -17.60 | 19.16 | 46.00 | -26.84 | QP | 200 | 214 | |
| 5 | 455.1888 | 37.41 | -12.87 | 24.54 | 46.00 | -21.46 | QP | 200 | 200 | |
| 6 | 884.2853 | 35.71 | -4.44 | 31.27 | 46.00 | -14.73 | QP | 200 | 268 | |



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Job No.: STAR2018 #102

Standard: FCC Class C 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: HoverJet (F22)

Mode: TX 2460MHz

Model: RGR4120/2232

Manufacturer: YangRi

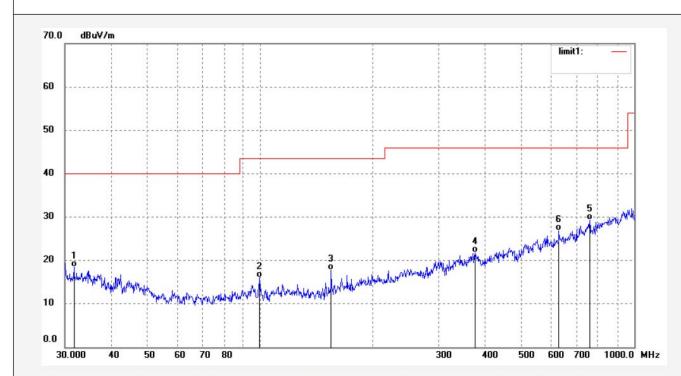
Note: Report No.:ATE20180363

Polarization: Vertical

Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:22:14

Engineer Signature: star



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|-------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 31.7347 | 35.53 | -17.05 | 18.48 | 40.00 | -21.52 | QP | 100 | 175 | |
| 2 | 99.4176 | 37.76 | -21.67 | 16.09 | 43.50 | -27.41 | QP | 100 | 123 | |
| 3 | 154.7856 | 39.63 | -21.91 | 17.72 | 43.50 | -25.78 | QP | 100 | 200 | |
| 4 | 375.2022 | 36.05 | -14.19 | 21.86 | 46.00 | -24.14 | QP | 100 | 269 | |
| 5 | 760.2866 | 35.91 | -6.55 | 29.36 | 46.00 | -16.64 | QP | 100 | 13 | |
| 6 | 628.8935 | 36.08 | -9.30 | 26.78 | 46.00 | -19.22 | QP | 100 | 86 | |



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Above 1GHz

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Job No.: STAR2018 #104

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: HoverJet (F22)

Mode: TX 2420MHz Model: RGR4120/2232

Manufacturer: YangRi

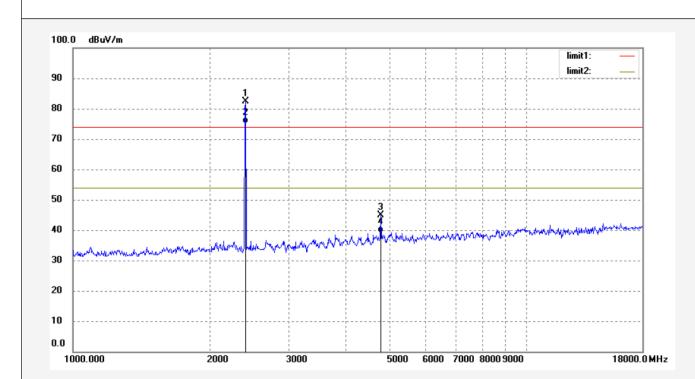
Note: Report No.:ATE20180363

Polarization: Horizontal

Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:26:20

Engineer Signature: star



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2420.199 | 90.39 | -7.97 | 82.42 | 114.00 | -31.58 | peak | 200 | 99 | |
| 2 | 2420.199 | 83.09 | -7.97 | 75.12 | 94.00 | -18.88 | AVG | 200 | 114 | |
| 3 | 4840.059 | 47.17 | -2.39 | 44.78 | 74.00 | -29.22 | peak | 200 | 136 | |
| 4 | 4840.059 | 41.58 | -2.39 | 39.19 | 54.00 | -14.81 | AVG | 200 | 239 | |





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Job No.: STAR2018 #103

Standard: FCC PK
Test item: Radiation Test

Tomp (C)/Hum (%) 25 C

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: HoverJet (F22) Mode: TX 2420MHz

Model: RGR4120/2232 Manufacturer: YangRi

Note: Report No.:ATE20180363

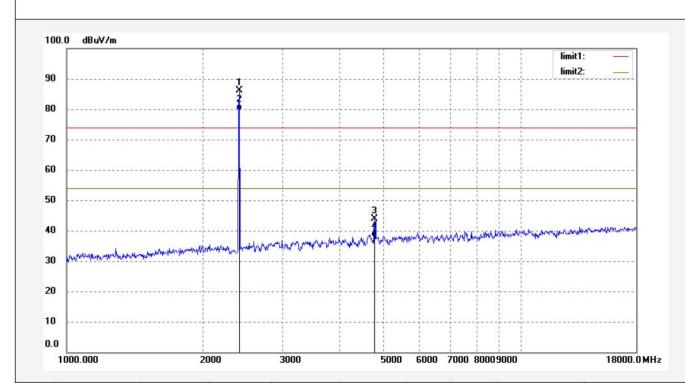
Polarization: Vertical

Power Source: DC 4.5V Date: 2018/03/26

Engineer Signature: star

Distance: 3m

Time: 14:24:45



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2420.099 | 93.99 | -7.97 | 86.02 | 114.00 | -27.98 | peak | 150 | 188 | |
| 2 | 2420.099 | 87.65 | -7.97 | 79.68 | 94.00 | -14.32 | AVG | 150 | 267 | |
| 3 | 4840.059 | 46.38 | -2.39 | 43.99 | 74.00 | -30.01 | peak | 150 | 204 | |
| 4 | 4840.059 | 40.21 | -2.39 | 37.82 | 54.00 | -16.18 | AVG | 150 | 147 | |





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Job No.: STAR2018 #105 Polarization: Horizontal Standard: FCC PK Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:28:09

HoverJet (F22) Engineer Signature: star

Distance: 3m

EUT: HoverJet (F22)

Mode: TX 2440MHz

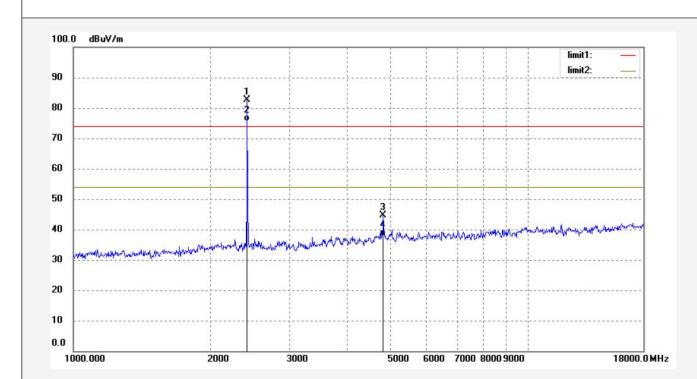
Model: RGR4120/2232

Manufacturer: YangRi

Test item: Radiation Test

Note: Report No.:ATE20180363

Temp.(C)/Hum.(%) 25 C / 55 %



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|-----------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2440.021 | 90.62 | -7.93 | 82.69 | 114.00 | -31.31 | peak | 200 | 192 | |
| 2 | 2440.021 | 83.48 | -7.93 | 75.55 | 94.00 | -18.45 | AVG | 200 | 174 | |
| 3 | 4880.324 | 46.87 | -2.25 | 44.62 | 74.00 | -29.38 | peak | 200 | 225 | |
| 4 | 4880.324 | 40.11 | -2.25 | 37.86 | 54.00 | -16.14 | AVG | 200 | 300 | |





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Distance: 3m

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Job No.: STAR2018 #106 Polarization: Vertical
Standard: FCC PK Power Source: DC 4.5V

Test item: Radiation Test Date: 2018/03/26
Temp.(C)/Hum.(%) 25 C / 55 % Time: 14:29:53

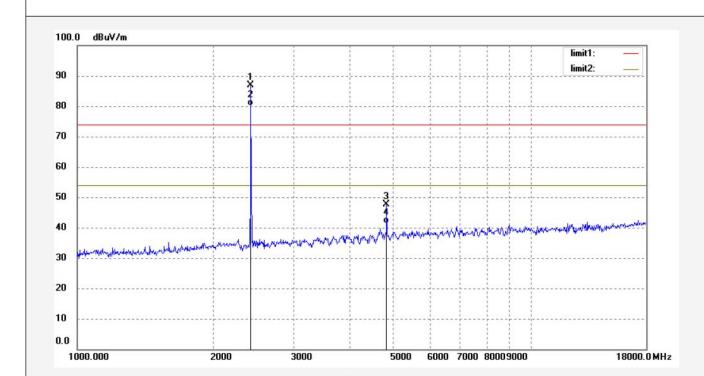
EUT: HoverJet (F22) Engineer Signature: star

Mode: TX 2440MHz

Model: RGR4120/2232

Manufacturer: YangRi

Note: Report No.:ATE20180363



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|-------------|-----------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2440.021 | 94.81 | -7.93 | 86.88 | 114.00 | -27.12 | peak | 150 | 44 | |
| 2 | 2440.021 | 88.14 | -7.93 | 80.21 | 94.00 | -13.79 | AVG | 150 | 92 | |
| 3 | 4880.124 | 49.97 | -2.25 | 47.72 | 74.00 | -26.28 | peak | 150 | 10 | |
| 4 | 4880.124 | 43.62 | -2.25 | 41.37 | 54.00 | -12.63 | AVG | 150 | 115 | |





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Report No.: ATE20180363

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Job No.: STAR2018 #108 Polarization: Horizontal Standard: FCC PK Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:33:45

Engineer Signature: star

Distance: 3m

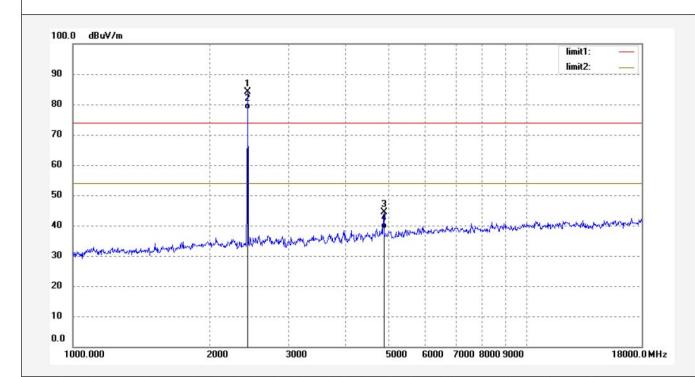
Standard: FCC PK
Test item: Radiation Test

EUT: HoverJet (F22)
Mode: TX 2460MHz
Model: RGR4120/2232

Manufacturer: YangRi

Note: Report No.:ATE20180363

Temp.(C)/Hum.(%) 25 C / 55 %



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|-----------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2460.024 | 92.04 | -7.90 | 84.14 | 114.00 | -29.86 | peak | 200 | 163 | |
| 2 | 2460.024 | 86.35 | -7.90 | 78.45 | 94.00 | -15.55 | AVG | 200 | 203 | |
| 3 | 4920.157 | 46.52 | -2.10 | 44.42 | 74.00 | -29.58 | peak | 200 | 228 | |
| 4 | 4920.157 | 40.92 | -2.10 | 38.82 | 54.00 | -15.18 | AVG | 200 | 190 | |





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Report No.: ATE20180363

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Job No.: STAR2018 #107 Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

Mode: TX 2460MHz
Model: RGR4120/2232

EUT: HoverJet (F22)

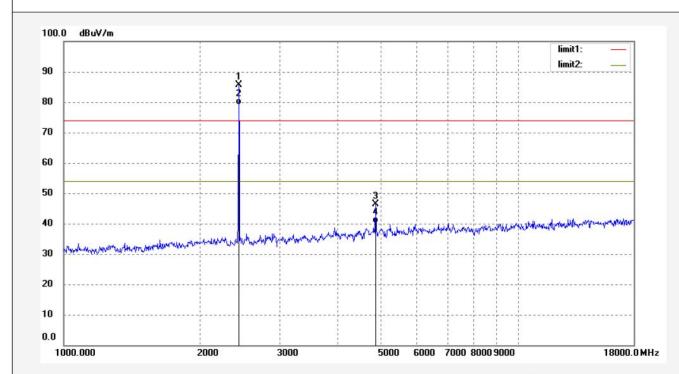
Manufacturer: YangRi

Note: Report No.:ATE20180363

Polarization: Vertical
Power Source: DC 4.5V

Date: 2018/03/26 Time: 14:32:13

Engineer Signature: star



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|-----------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2460.024 | 93.57 | -7.90 | 85.67 | 114.00 | -27.33 | peak | 150 | 330 | |
| 2 | 2460.024 | 87.12 | -7.90 | 79.22 | 94.00 | -14.78 | AVG | 150 | 241 | |
| 3 | 4920.057 | 48.40 | -2.10 | 46.30 | 74.00 | -27.70 | peak | 150 | 211 | |
| 4 | 4920.057 | 42.33 | -2.10 | 40.23 | 54.00 | -13.77 | AVG | 150 | 172 | |



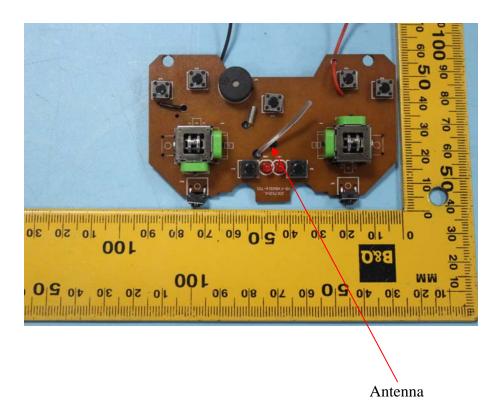
8. ANTENNA REQUIREMENT

8.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



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