

REPORT
TIMEWAY
TECHNICAL
CERTIFICATION
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Report No.: TW2012183-01E
File Reference No.: 2021-01-14

Applicant: HANGZHOU ZT MODEL CO., LTD.

Product: Falcon 800 2.4GHz RC Plane

Model No.: XA02601, XA02602

Trademark: N/A

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility



Dated: January 14, 2021

**Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory 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. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688

Fax: (755) 83442996

Site Listed with Federal Communications commission (FCC)

Registration Number: 744189

For 3m Anechoic Chamber

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: HANGZHOU ZT MODEL CO., LTD.

Address: NO.6 MINGDE RD, BINJIANG DISTRICT, HANGZHOU, ZHEJIANG PROVINCE, CHINA

Telephone: 15888838782

Fax: --

1.3 Description of EUT

Product: Falcon 800 2.4GHz RC Plane

Manufacturer: HANGZHOU ZT MODEL CO., LTD.

Address: NO.6 MINGDE RD, BINJIANG DISTRICT, HANGZHOU, ZHEJIANG PROVINCE, CHINA

Brand Name: N/A

Model Number: XA02601, XA02602

Test Model: XA02601

Remark: These models are identical in interior structure, electrical circuits and components, different model names for the marketing requirement.

Hardware Version: V1.4

Software Version: V3

Serial No.: 6949936111883

Type of Modulation GFSK

Frequency range 2405-2480MHz

Channel Spacing 5MHz

Channel Number 16 channels

Antenna: Dipole antenna used. The gain of the antennas is 0dBi (Declared by the applicable)

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Input Voltage: DC6V, 4 pcs AA batteries

1.4 Submitted Sample: 1Samples

1.5 Test Duration

2020-12-17 to 2021-01-14

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by



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| 2.0 Test Equipment | | | | | |
|---------------------------|--------------|----------------------|--------------|--------------|------------|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2020-06-23 | 2021-06-22 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2020-06-23 | 2021-06-22 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2018-06-25 | 2021-06-24 |
| Spectrum | R&S | FSIQ26 | 100292 | 2020-06-23 | 2021-06-22 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2019-06-21 | 2021-06-20 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2018-07-09 | 2021-07-08 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2020-06-23 | 2021-06-22 |
| Power sensor | Anritsu | MA2491A | 32263 | 2020-06-23 | 2021-06-22 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2018-07-04 | 2021-07-03 |
| 9*6*6 Anechoic | -- | -- | N/A | 2018-02-07 | 2021-02-06 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2020-06-23 | 2021-06-22 |
| EMI Test Receiver | RS | ESH3 | 860904/006 | 2020-06-23 | 2021-06-22 |
| Spectrum | HP/Agilent | ESA-L1500A | US37451154 | 2020-06-23 | 2021-06-22 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2020-06-23 | 2021-06-22 |
| Spectrum | RS | FSP | 1164.4391.38 | 2020-01-16 | 2021-01-15 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8 M/FA | -- | 2020-06-23 | 2021-06-22 |
| RF Cable | Zhengdi | 7m | -- | 2020-06-23 | 2021-06-22 |
| RF Switch | EM | EMSW18 | 060391 | 2020-06-23 | 2021-06-22 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2020-06-23 | 2021-06-22 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2020-06-23 | 2021-06-22 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2021-01-06 | 2022-01-05 |

2.2 Automation Test Software

For Conducted Emission Test

| Name | Version |
|--------|-------------------|
| EZ-EMC | Ver.EMC-CON 3A1.1 |

For Radiated Emissions

| Name | Version |
|---|---------|
| EMI Test Software BL410-EV18.91 | V18.905 |
| EMI Test Software BL410-EV18.806 High Frequency | V18.06 |

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3.0 Technical Details

3.1 Summary of test results

| The EUT has been tested according to the following specifications: | | | |
|--|--|--------|----------|
| Requirement | CFR 47 Section | Result | Notes |
| Antenna Requirement | 15.203, 15.247(b)(4) | PASS | Complies |
| Maximum Peak Out Power | 15.247 (b)(1), (4) | PASS | Complies |
| Carrier Frequency Separation | 15.247(a)(1) | PASS | Complies |
| 20dB Channel Bandwidth | 15.247 (a)(1) | PASS | Complies |
| Number of Hopping Channels | 15.247(a)(iii), 15.247(b)(1) | PASS | Complies |
| Time of Occupancy (Dwell Time) | 15.247(a)(iii) | PASS | Complies |
| Spurious Emission, Band Edge, and Restricted bands | 15.247(d),15.205(a), 15.209 (a),15.109 | PASS | Complies |
| Conducted Emissions | 15.207(a), 15.107 | PASS | Complies |
| RF Exposure | 15.247(i), 1.1307(b)(1) | PASS | Complies |

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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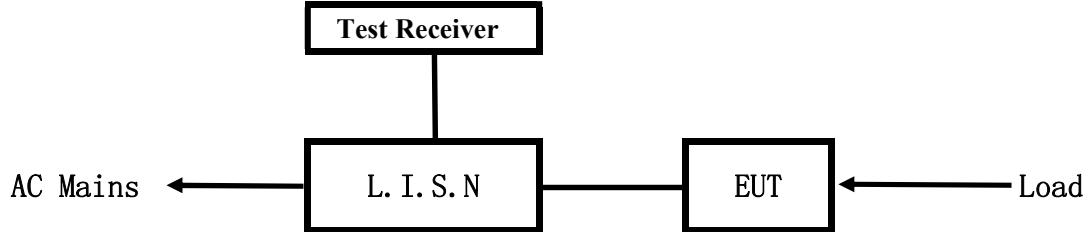
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



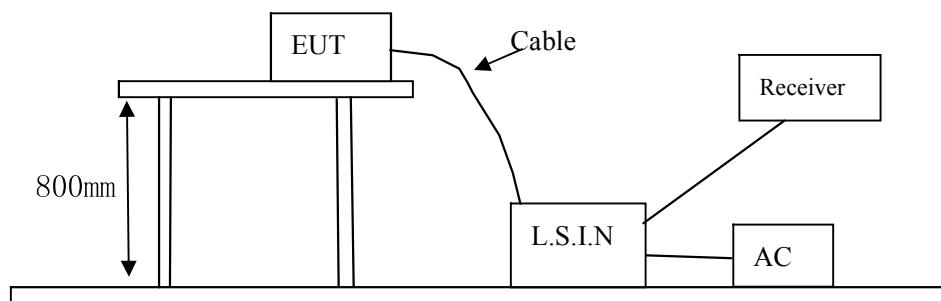
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~ 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

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A. EUT

| Device | Manufacturer | Model | FCC ID |
|----------------------------|-----------------------------|---------------------|------------|
| Falcon 800 2.4GHz RC Plane | HANGZHOU ZT MODEL CO., LTD. | XA02601, XA02602 | OJPXA02601 |

B. Internal Device

| Device | Manufacturer | Model | Rating |
|--------|--------------|-------|--------|
| | | | |

C. Peripherals

| Device | Manufacturer | Model | Rating |
|--------|--------------|-------|--------|
| | | | |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency (MHz) | Limits (dB μ V) | |
|--------------------|---------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66.0~56.0* | 56.0~46.0* |
| 0.50 ~ 5.00 | 56.0 | 46.0 |
| 5.00 ~ 30.00 | 60.0 | 50.0 |

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: EUT powered by AA battery, this test item not applicable.

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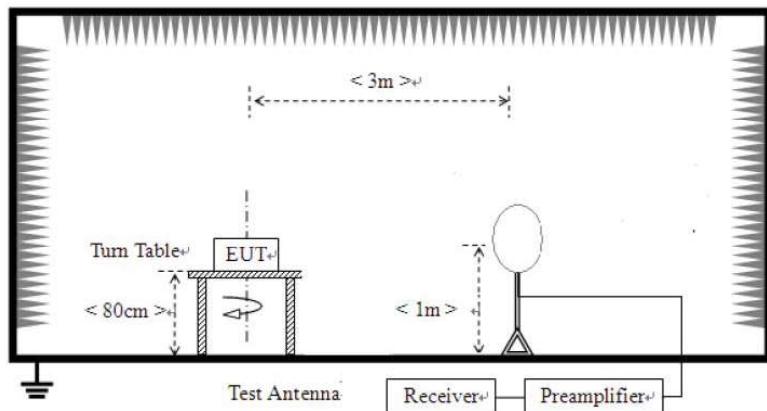
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna height is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



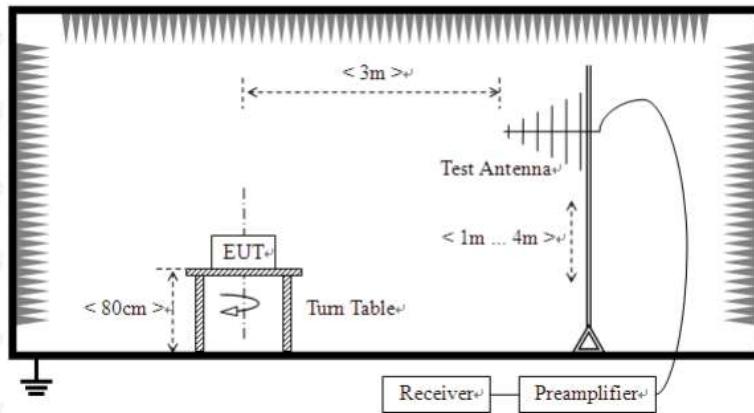
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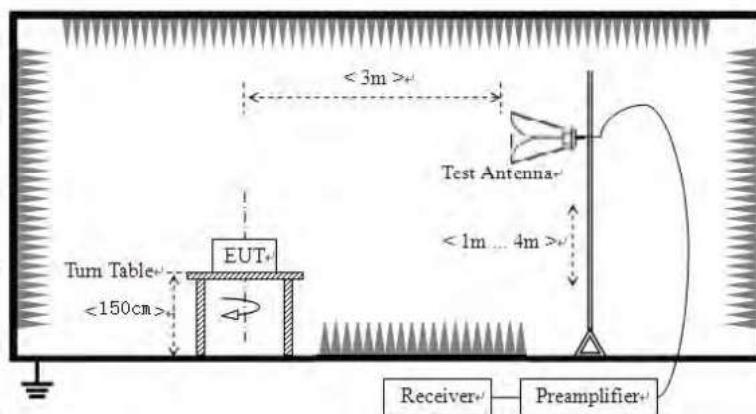
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

| Frequency Range (MHz) | Distance (m) | Field strength (dB μ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note:

1. RF Voltage (dB μ V) = $20 \log_{10}$ RF Voltage (uV)
2. In the Above Table, the higher limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand). After pre-test. It was found that the worse radiated emission was get at the lying position.
5. New batteries were used during the radiated emissions test.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

Results: **Pass**

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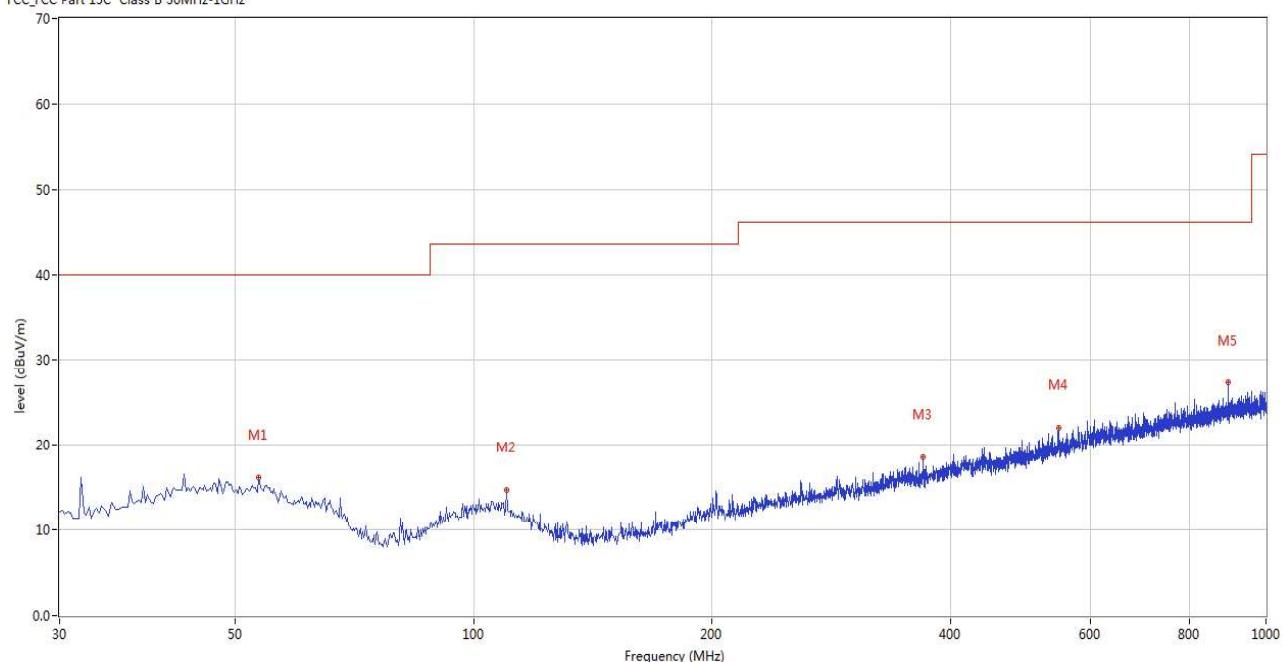
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Test Figure:

H

FCC_FCC Part 15C Class B 30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 1 | 53.517 | 16.21 | -11.52 | 40.0 | -23.79 | Peak | 3.00 | 200 | Horizontal | Pass |
| 2 | 110.005 | 14.73 | -13.60 | 43.5 | -28.77 | Peak | 360.00 | 200 | Horizontal | Pass |
| 3 | 369.415 | 18.55 | -9.55 | 46.0 | -27.45 | Peak | 360.00 | 200 | Horizontal | Pass |
| 4 | 546.881 | 21.96 | -6.23 | 46.0 | -24.04 | Peak | 297.00 | 200 | Horizontal | Pass |
| 5 | 895.994 | 27.24 | -1.76 | 46.0 | -18.76 | Peak | 360.00 | 200 | Horizontal | Pass |

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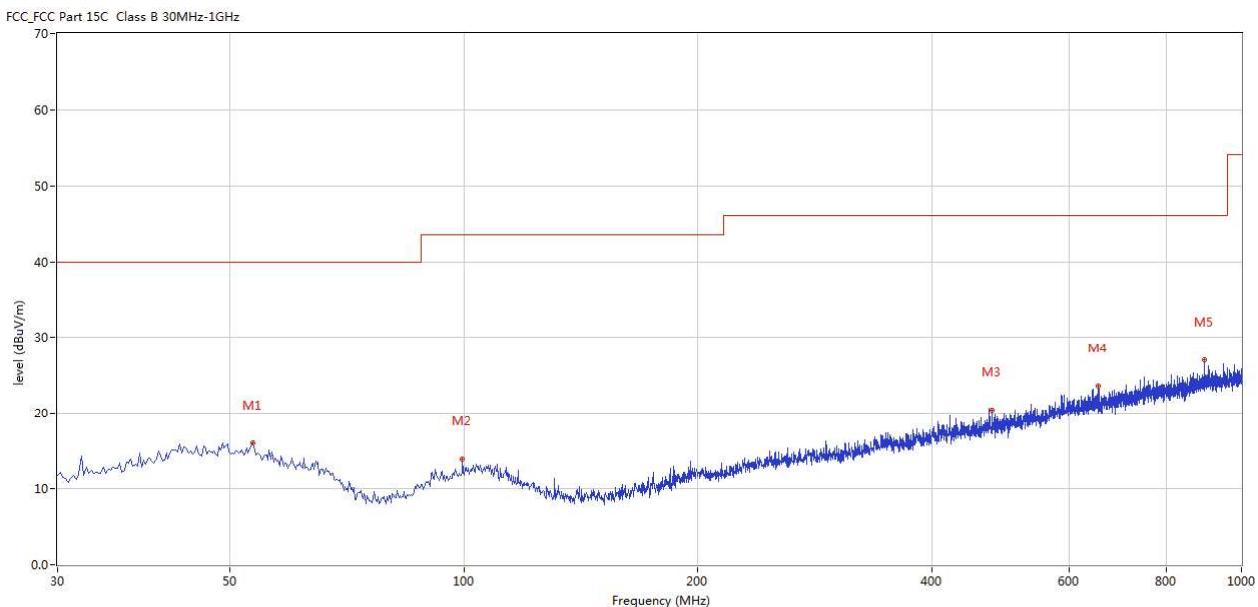
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Test Figure:

V



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 1 | 53.517 | 16.13 | -11.52 | 40.0 | -23.87 | Peak | 155.00 | 100 | Vertical | Pass |
| 2 | 99.580 | 13.96 | -13.60 | 43.5 | -29.54 | Peak | 0.00 | 100 | Vertical | Pass |
| 3 | 478.028 | 20.38 | -7.45 | 46.0 | -25.62 | Peak | 216.00 | 200 | Vertical | Pass |
| 4 | 653.312 | 23.58 | -4.48 | 46.0 | -22.42 | Peak | 75.00 | 100 | Vertical | Pass |
| 5 | 895.751 | 27.03 | -1.78 | 46.0 | -18.97 | Peak | 25.00 | 100 | Vertical | Pass |

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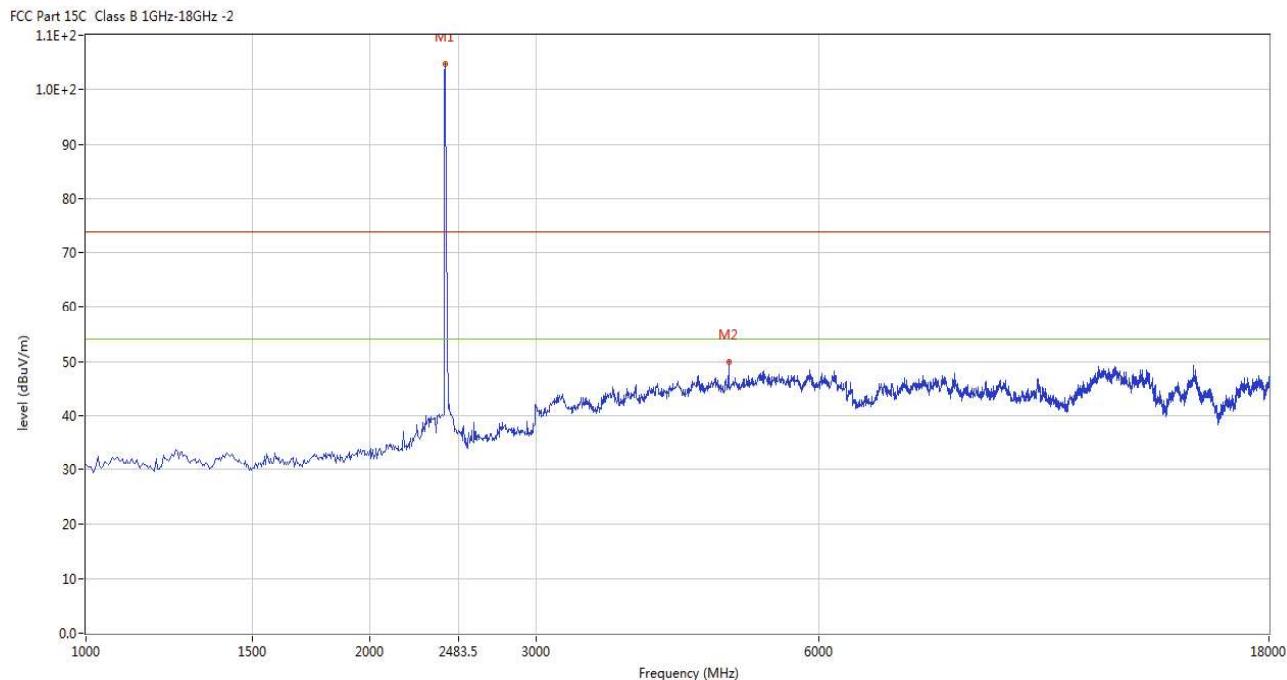
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Vertical



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 2 | 4808.000 | 50.90 | 3.13 | 54.0 | -3.10 | Peak | 325.00 | 100 | Vertical | Pass |

The report refers only to the sample tested and does not apply to the bulk.

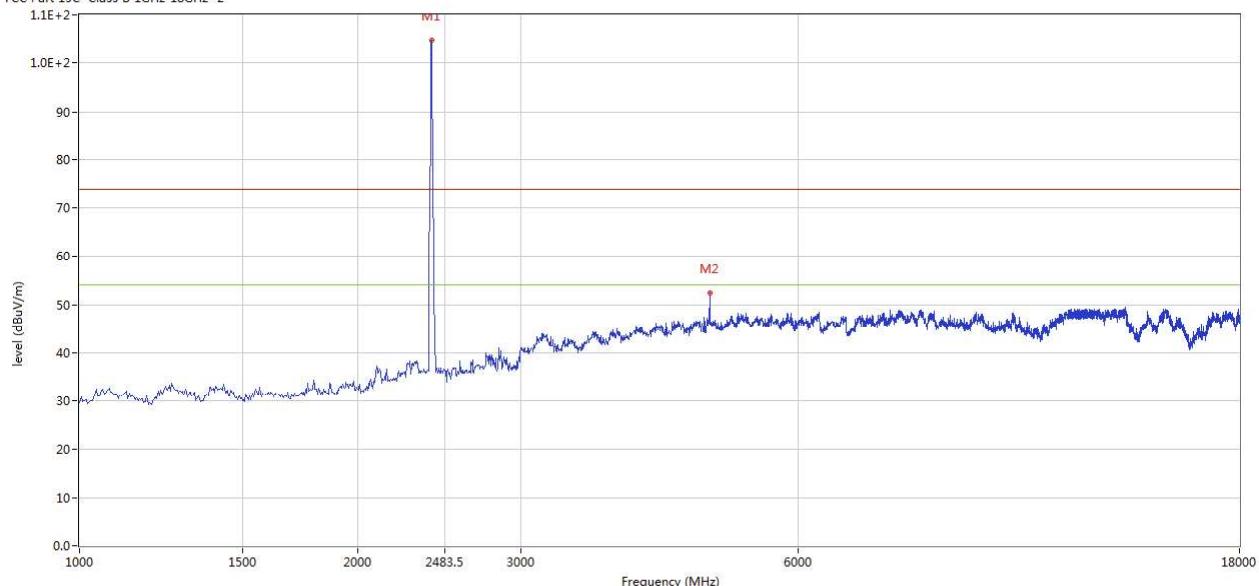
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Low Channel : Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 2 | 4808.000 | 53.02 | 3.13 | 54.0 | -0.98 | Peak | 91.00 | 100 | Horizontal | Pass |

The report refers only to the sample tested and does not apply to the bulk.

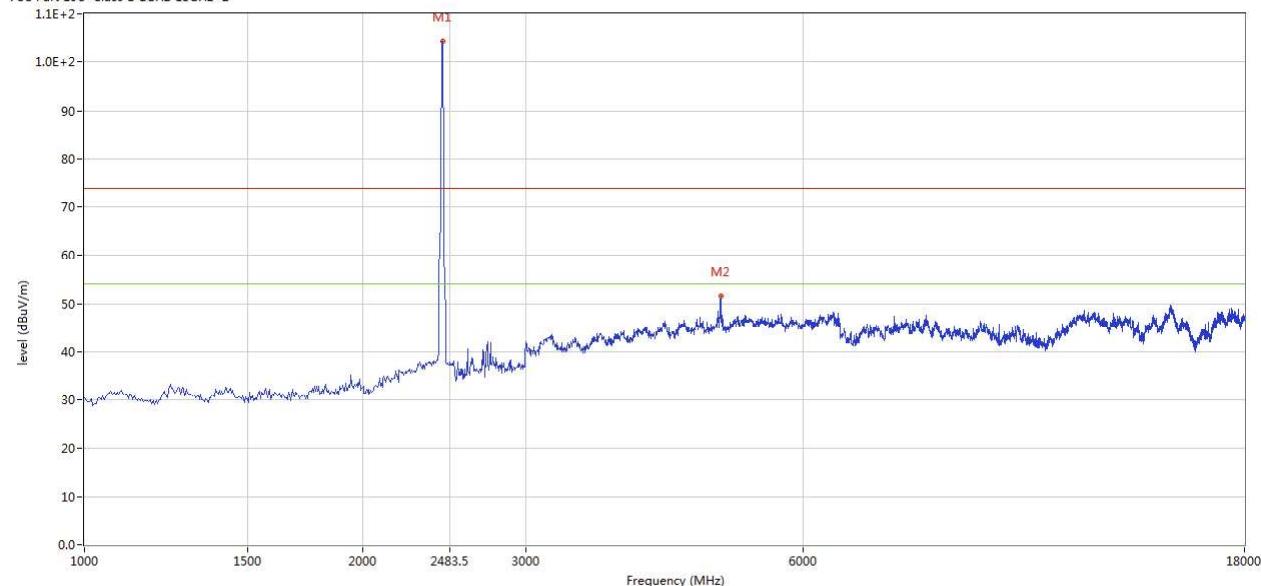
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Middle Channel : Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 2 | 4880.250 | 52.57 | 3.20 | 54.0 | -1.43 | Peak | 109.00 | 100 | Horizontal | Pass |

The report refers only to the sample tested and does not apply to the bulk.

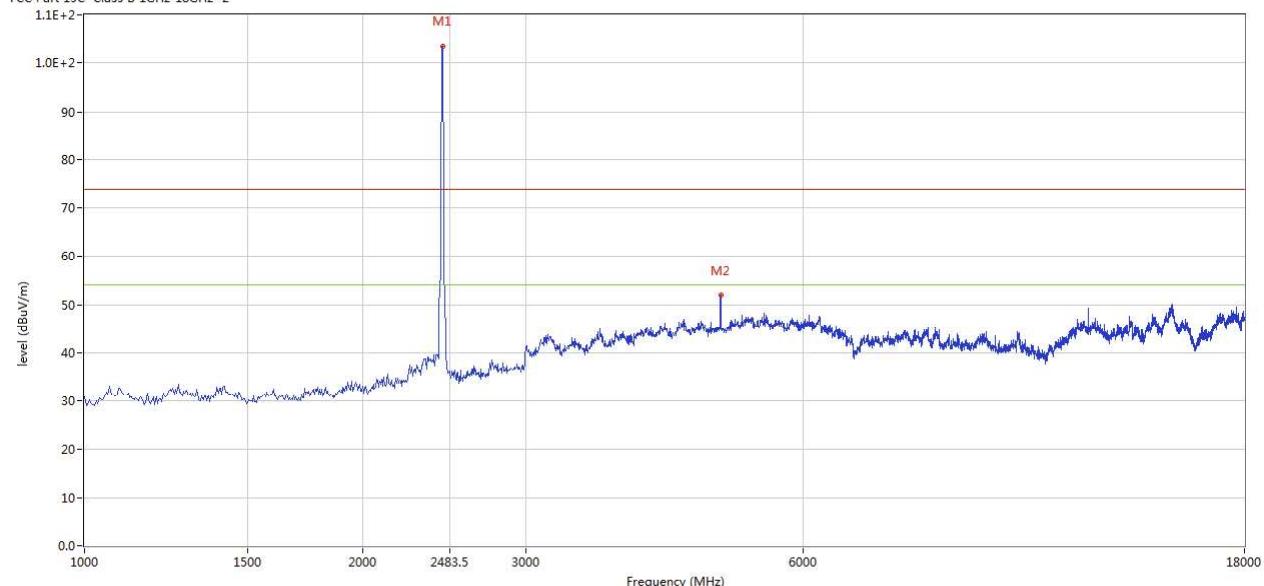
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Middle Channel : Vertical

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 2 | 4880.250 | 52.05 | 3.20 | 54.0 | -2.95 | Peak | 66.00 | 100 | Vertical | Pass |

The report refers only to the sample tested and does not apply to the bulk.

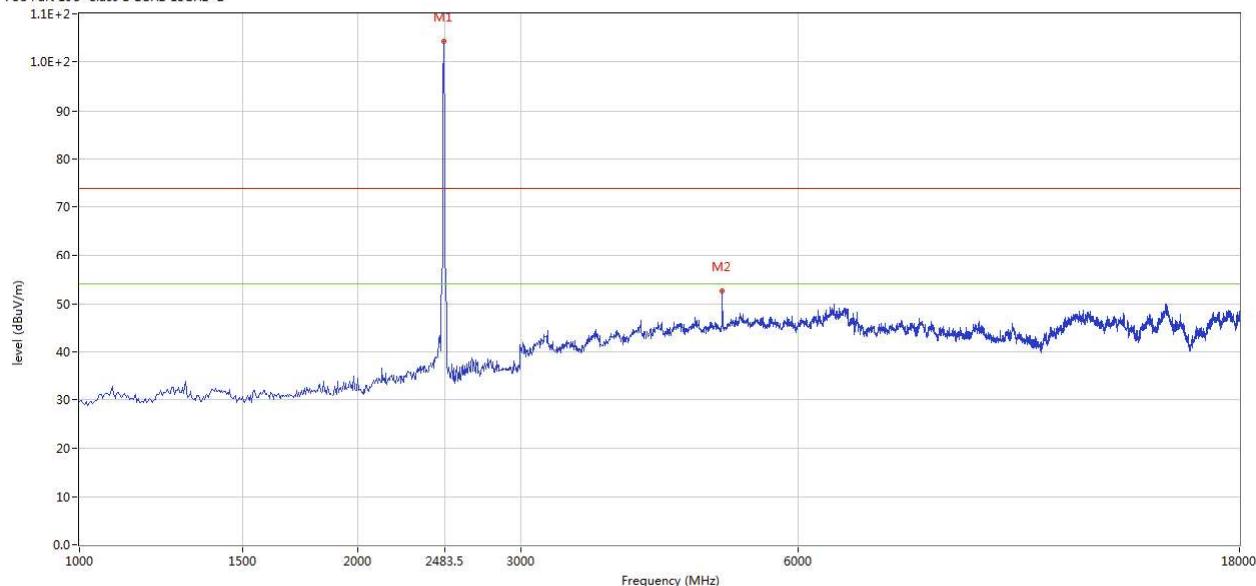
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High Channel : Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 2 | 4961.000 | 52.72 | 3.36 | 54.0 | -1.28 | Peak | 125.00 | 100 | Horizontal | Pass |

The report refers only to the sample tested and does not apply to the bulk.

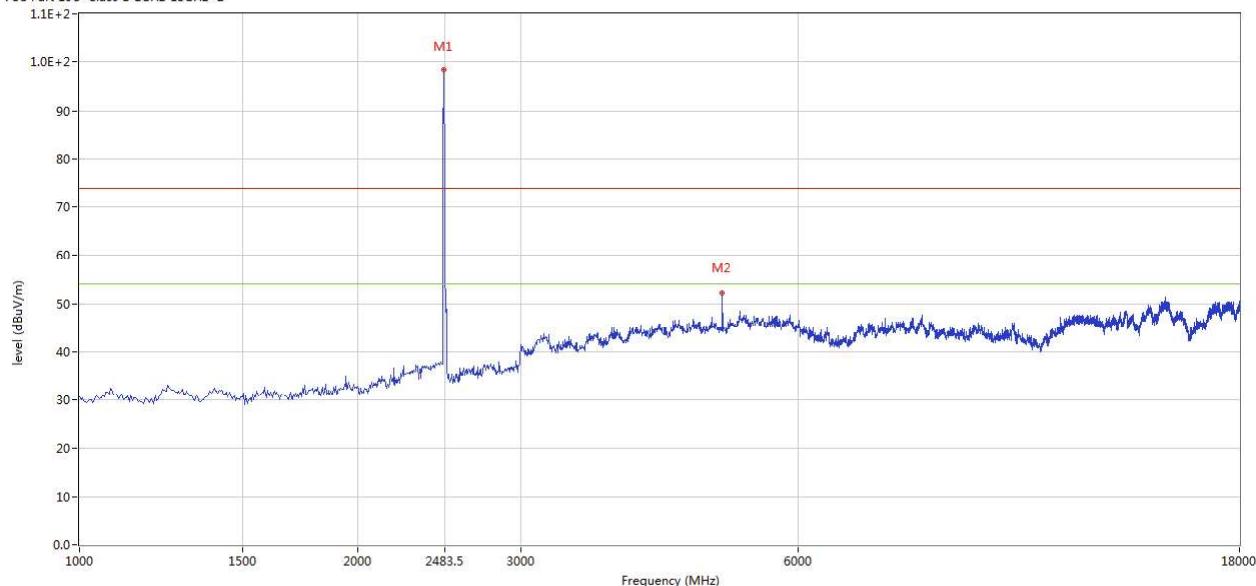
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High Channel : Vertical

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 2 | 4961.000 | 52.19 | 3.36 | 54.0 | -1.81 | Peak | 250.00 | 100 | Vertical | Pass |

Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G and Below 30MHz, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span =3MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

| EUT | | Falcon 800 2.4GHz RC Plane | | Model | XA02601 |
|-------------|-------------------------|----------------------------|---------------------|---------------|---------|
| Mode | | Keep Transmitting | | Input Voltage | DC6.0V |
| Temperature | | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (kHz) | Minimum Limit (kHz) | Pass/ Fail | |
| Low | 2405 | 2395 | -- | Pass | |
| Middle | 2440 | 2415 | -- | Pass | |
| High | 2480 | 2385 | -- | Pass | |

The report refers only to the sample tested and does not apply to the bulk.

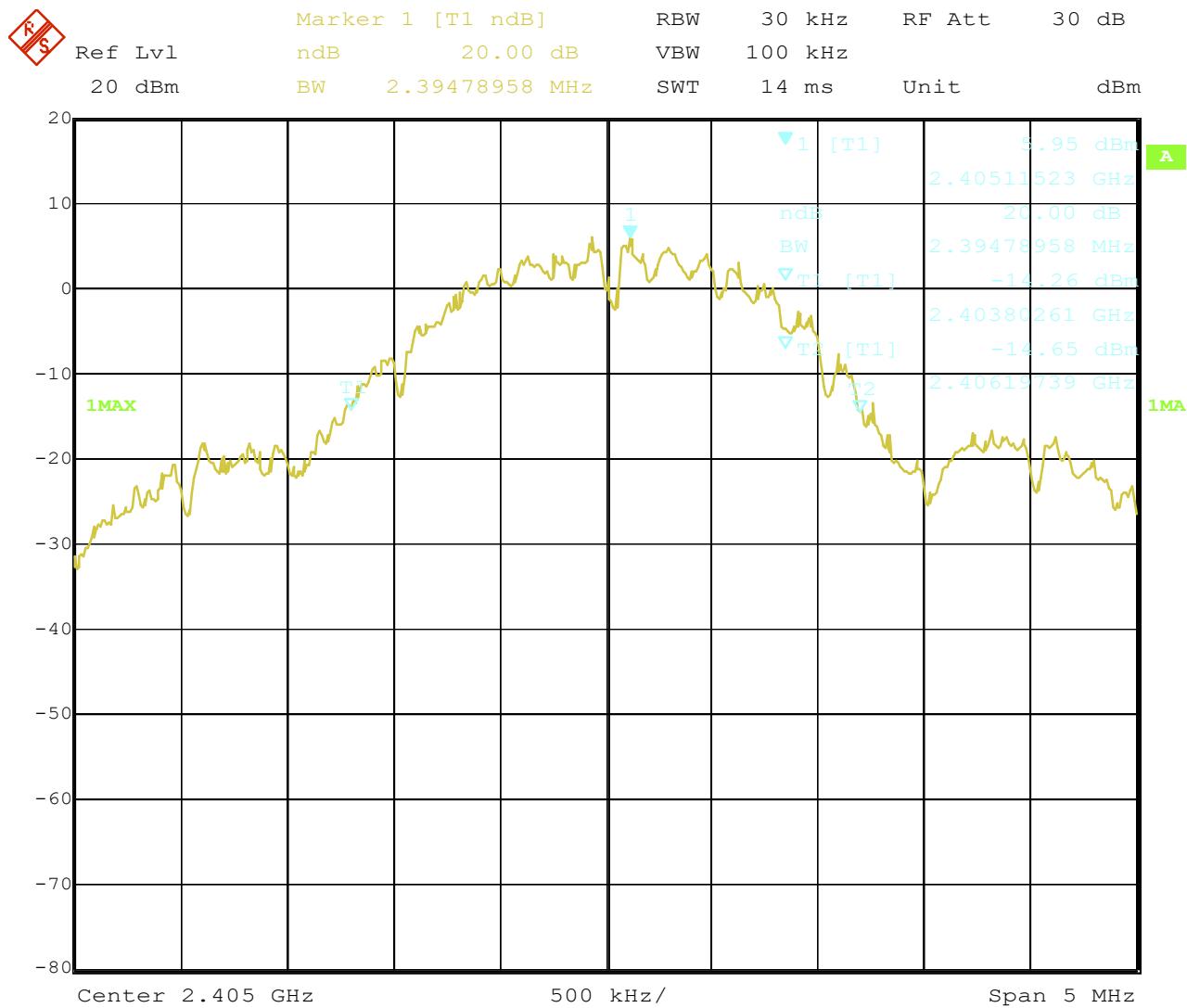
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Test Figure:

1. Condition: Low Channel



Date: 5.JAN.2021 13:20:19

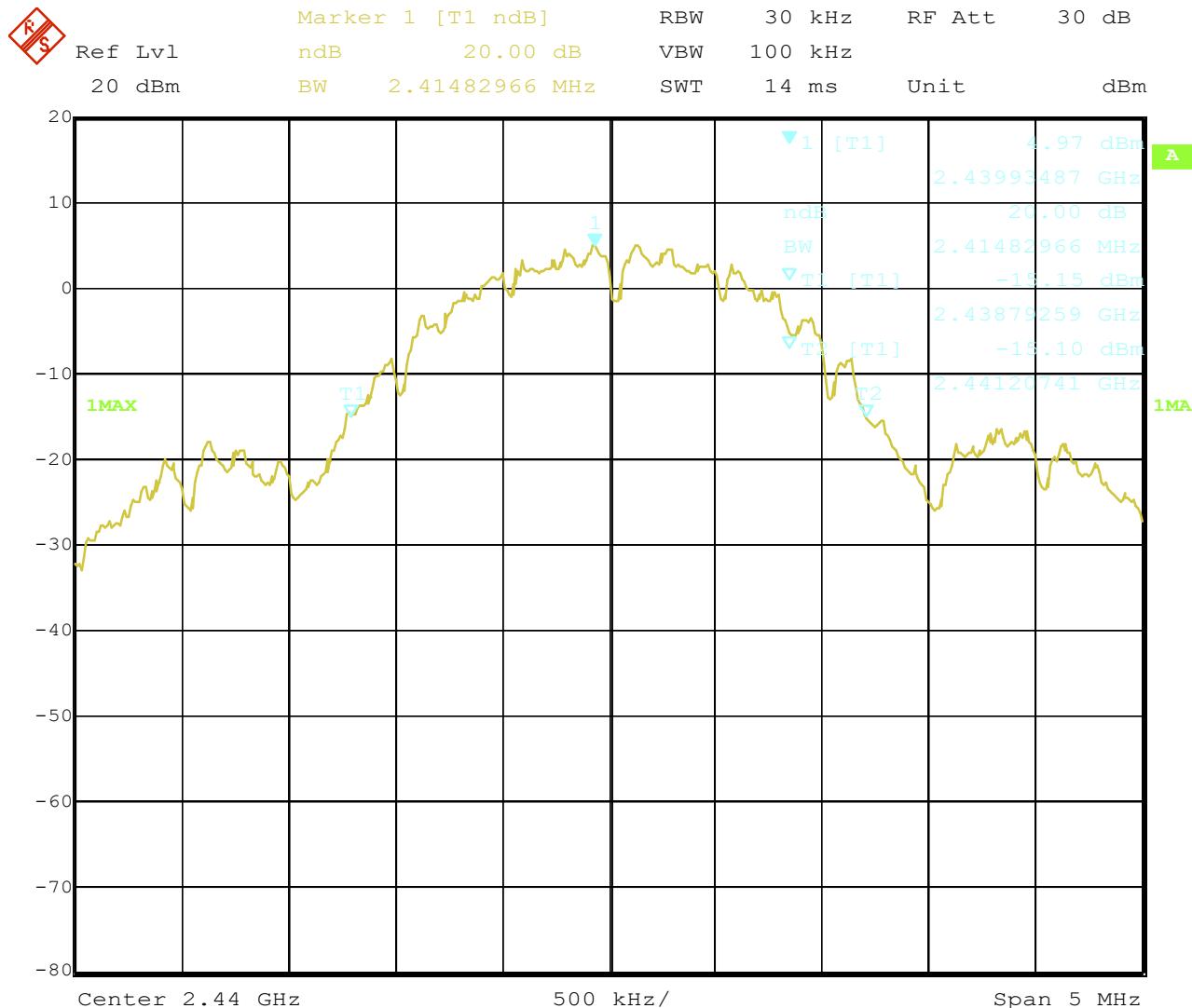
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2. Condition: Middle Channel



Date: 5.JAN.2021 14:05:39

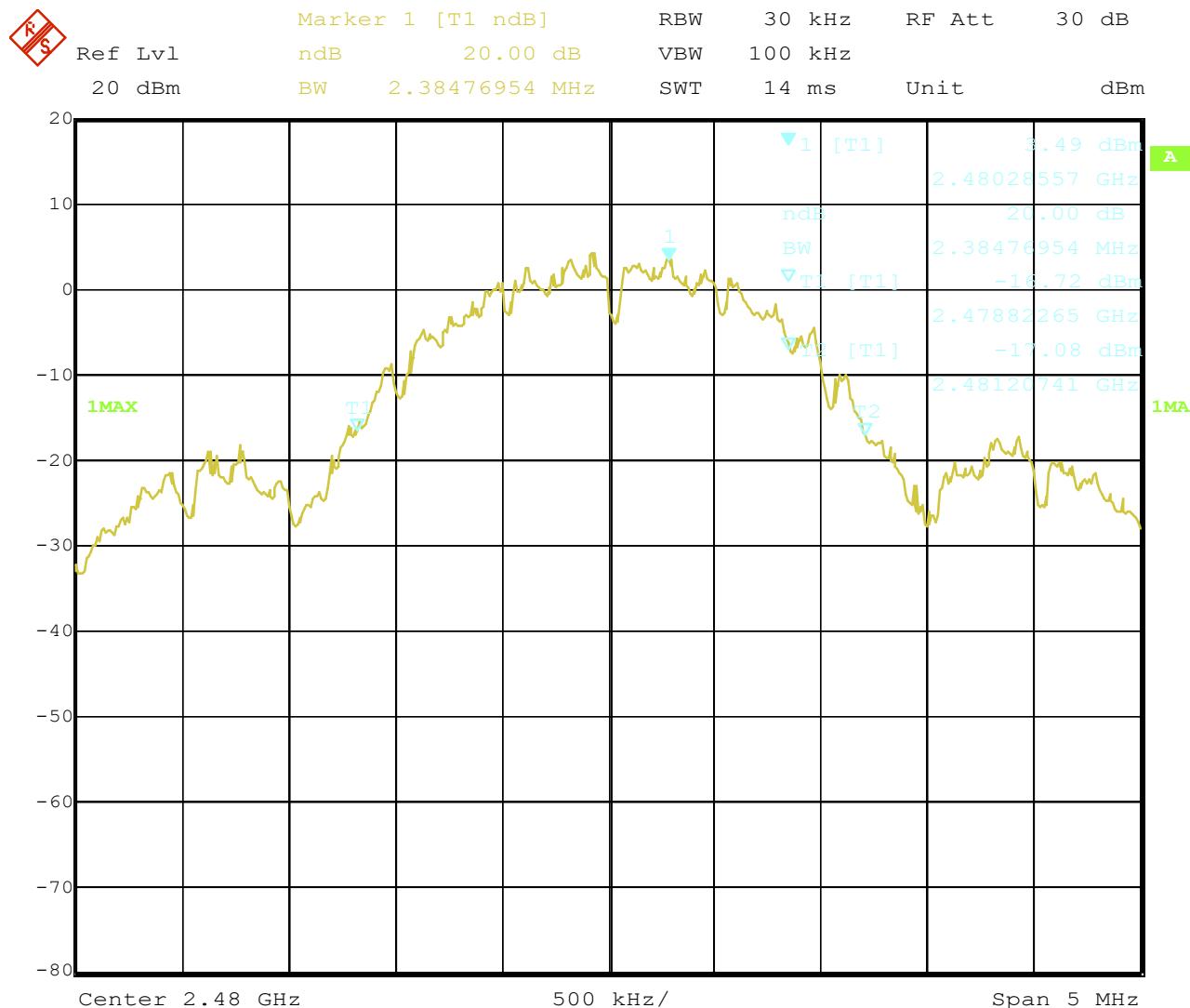
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3. High Channel



Date: 5.JAN.2021 14:13:06

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8. Maximum Output Power

8.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = RBW=3MHz; Sweep = 60s; Detector function = PK; Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

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8.4 Test Results

| EUT | Falcon 800 2.4GHz RC Plane | | Model | XA02601 |
|-------------|----------------------------|-------------------------|------------------------|------------|
| Mode | Keep Transmitting | | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Max. Power Output (dBm) | Peak Power Limit (dBm) | Pass/ Fail |
| | | Peak | | |
| Low | 2405 | 17.98 | 21 | Pass |
| Middle | 2440 | 17.80 | 21 | Pass |
| High | 2480 | 17.01 | 21 | Pass |

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The Peak power was measured

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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels; Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span; Video (or Average) Bandwidth (VBW) \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

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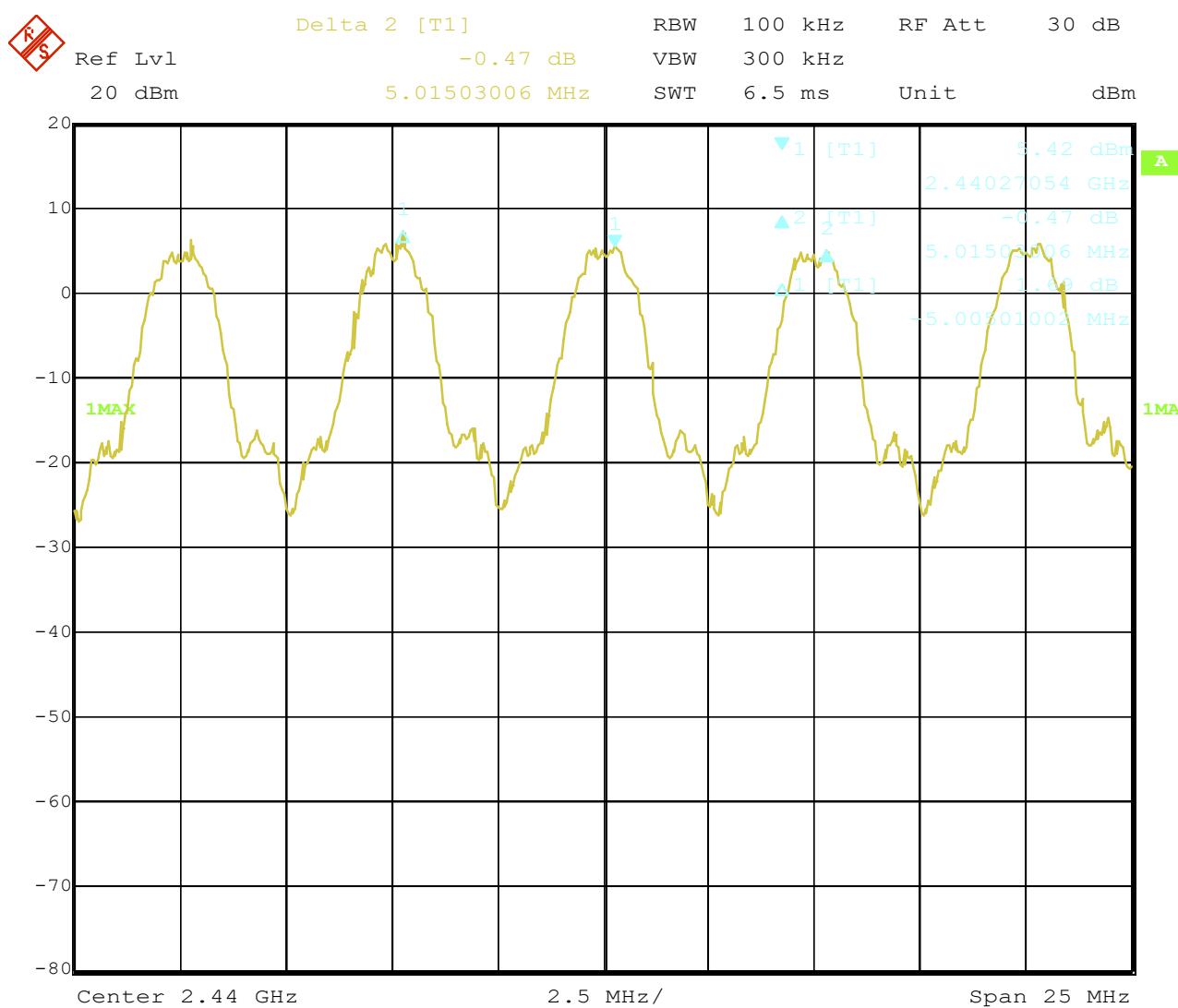
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9.4 Test Result

| | | | |
|------------------------------|----------------------------|---|------------|
| EUT | Falcon 800 2.4GHz RC Plane | Model | XA02601 |
| Mode | Hopping On | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Carrier Frequency Separation | | Limit | Pass/ Fail |
| 5MHz | | ≥ 25 kHz or 2/3 of the 20 dB bandwidth | Pass |

Test Plots



Date: 5.JAN.2021 10:10:09

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10. Number of Hopping Channels

10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold
3. Record the number of hopping channels.

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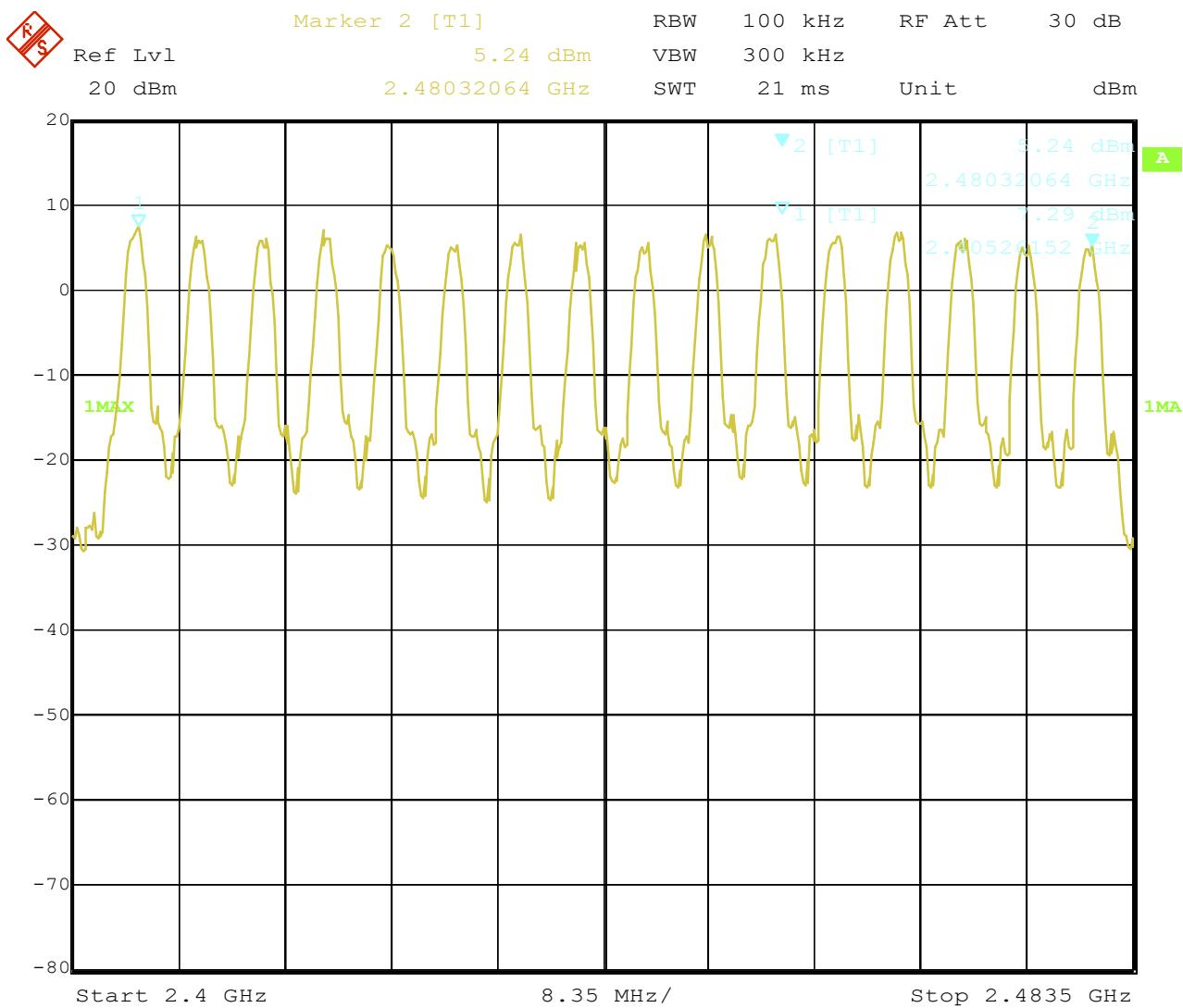
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10.4 Test Result

| | | | |
|---------------------|----------------------------|---------------|------------|
| EUT | Falcon 800 2.4GHz RC Plane | Model | XA02601 |
| Mode | Hopping On | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Operating Frequency | Number of hopping channels | Limit | Pass/ Fail |
| 2405-2480MHz | 16 | ≥ 15 | Pass |

Test Plot



Date: 5.JAN.2021 09:59:32

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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW \geq RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold
3. Measure the dwell time using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.
5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

| EUT | Falcon 800 2.4GHz RC Plane | | Model | XA02601 | | |
|-------------|----------------------------|------------|-----------------------|-----------------|----------|-------|
| Mode | Keep Transmitting | | Input Voltage | DC6.0V | | |
| Temperature | 24 deg. C, | | Humidity | 56% RH | | |
| Channel | Reading | Sweep Time | Burst in a sweep time | Required Period | Actual | Limit |
| Middle | 1.022ms | 5s | 44 | 6.4s | 0.05756s | 0.4s |

Calculation: $6.4/5 * 44 * 1.022 = 57.56\text{ms} = 0.05756\text{s}$

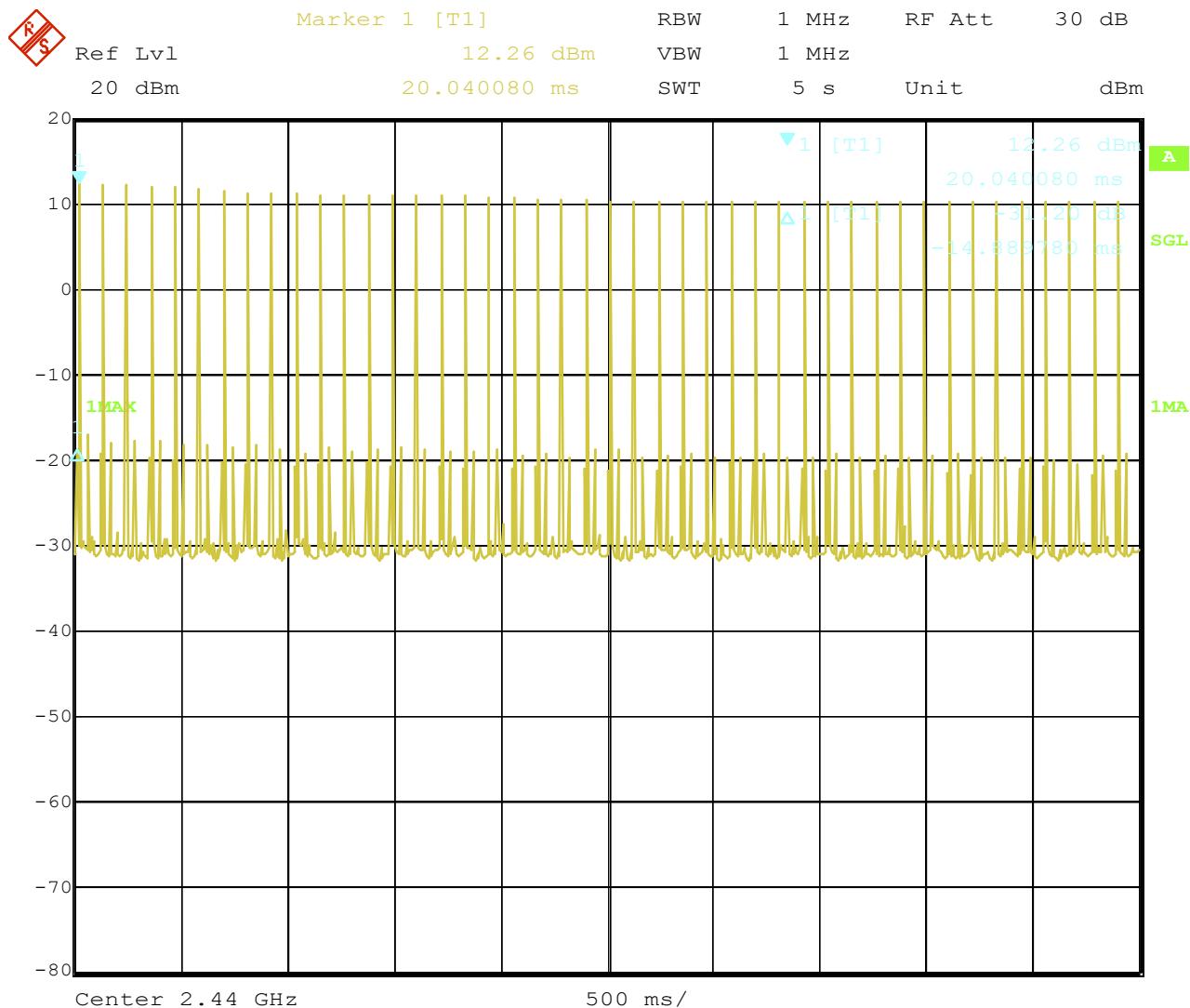
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Test Plots:



Date: 5.JAN.2021 15:40:29

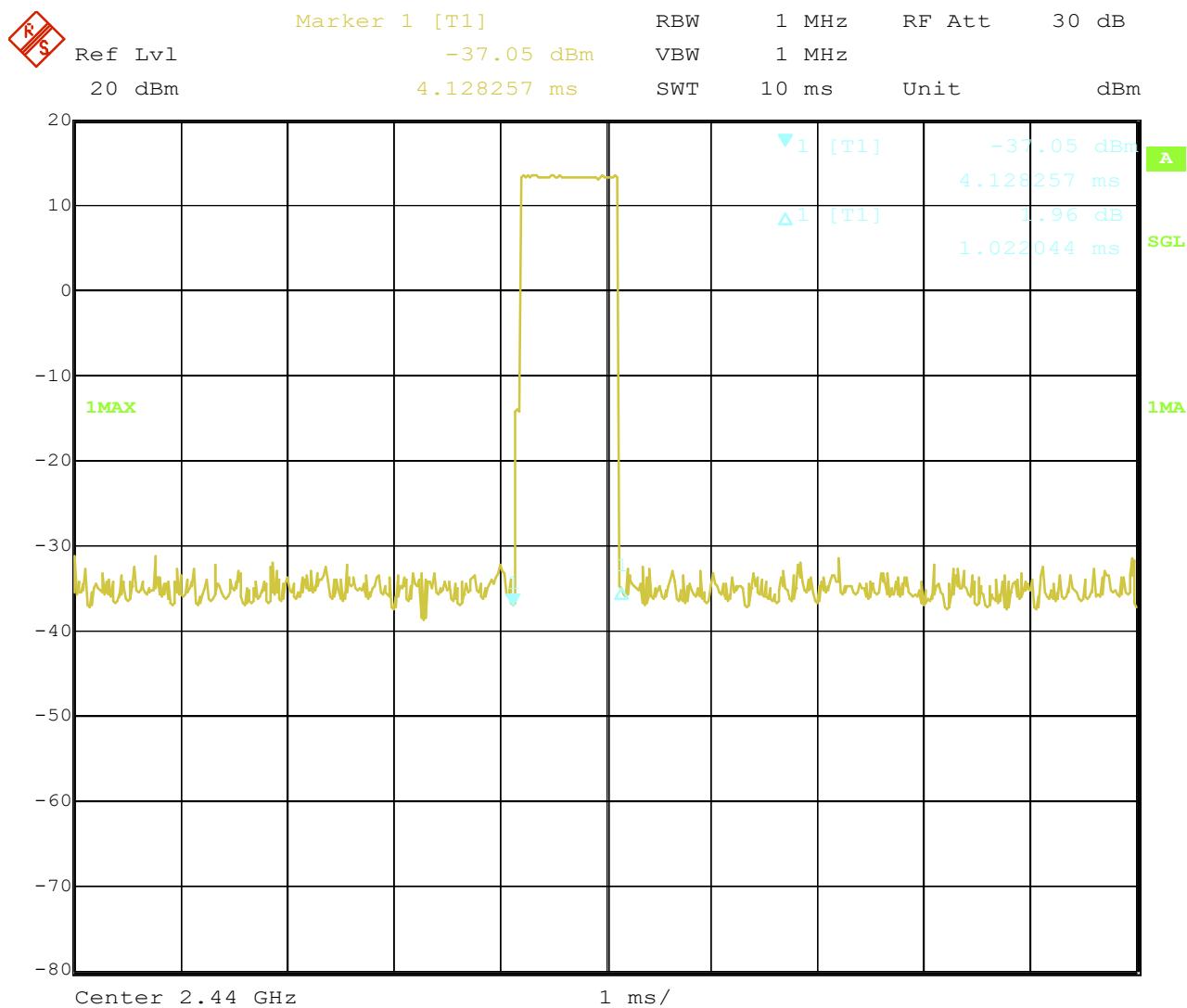
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Test Plots:



Date: 5.JAN.2021 15:26:00

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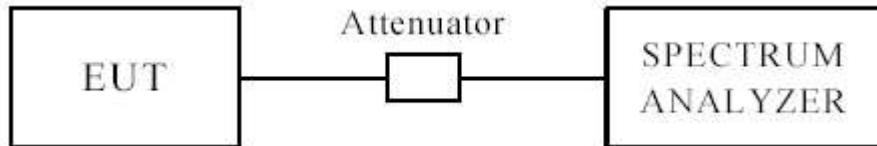
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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. Peak values with $\text{RBW}=\text{VBW}=1\text{MHz}$ and PK detector.

For bandage test, the spectrum set as follows: $\text{RBW}=100\text{ kHz}$, $\text{VBW}=300\text{ kHz}$. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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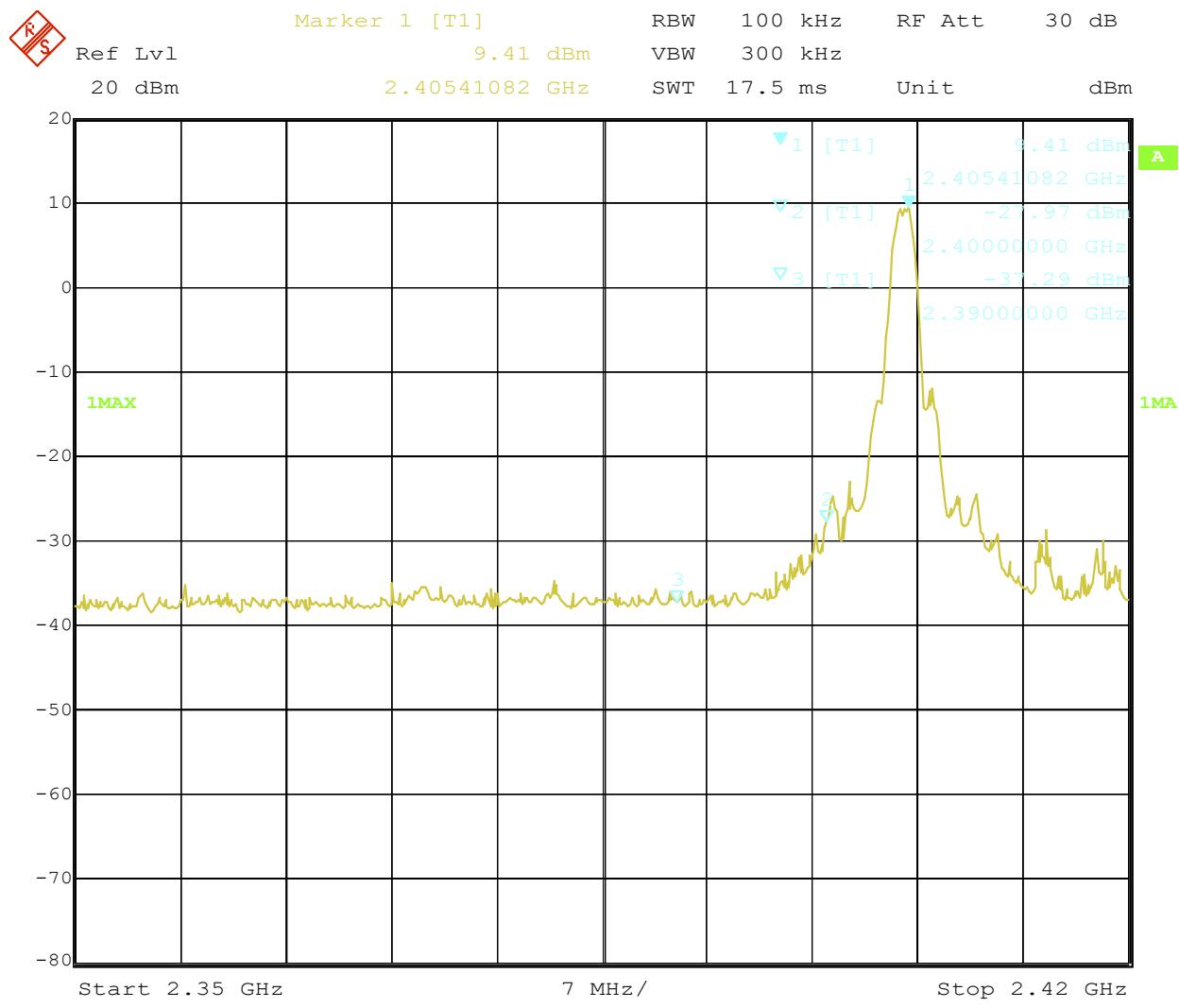
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12.4 Band Edge Test Result

| | | | |
|--------------|----------------------------|---------------|-------------|
| Product: | Falcon 800 2.4GHz RC Plane | Test Mode: | Low Channel |
| Mode | Keeping Transmitting | Input Voltage | DC6.0V |
| Temperature | 24 deg. C | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



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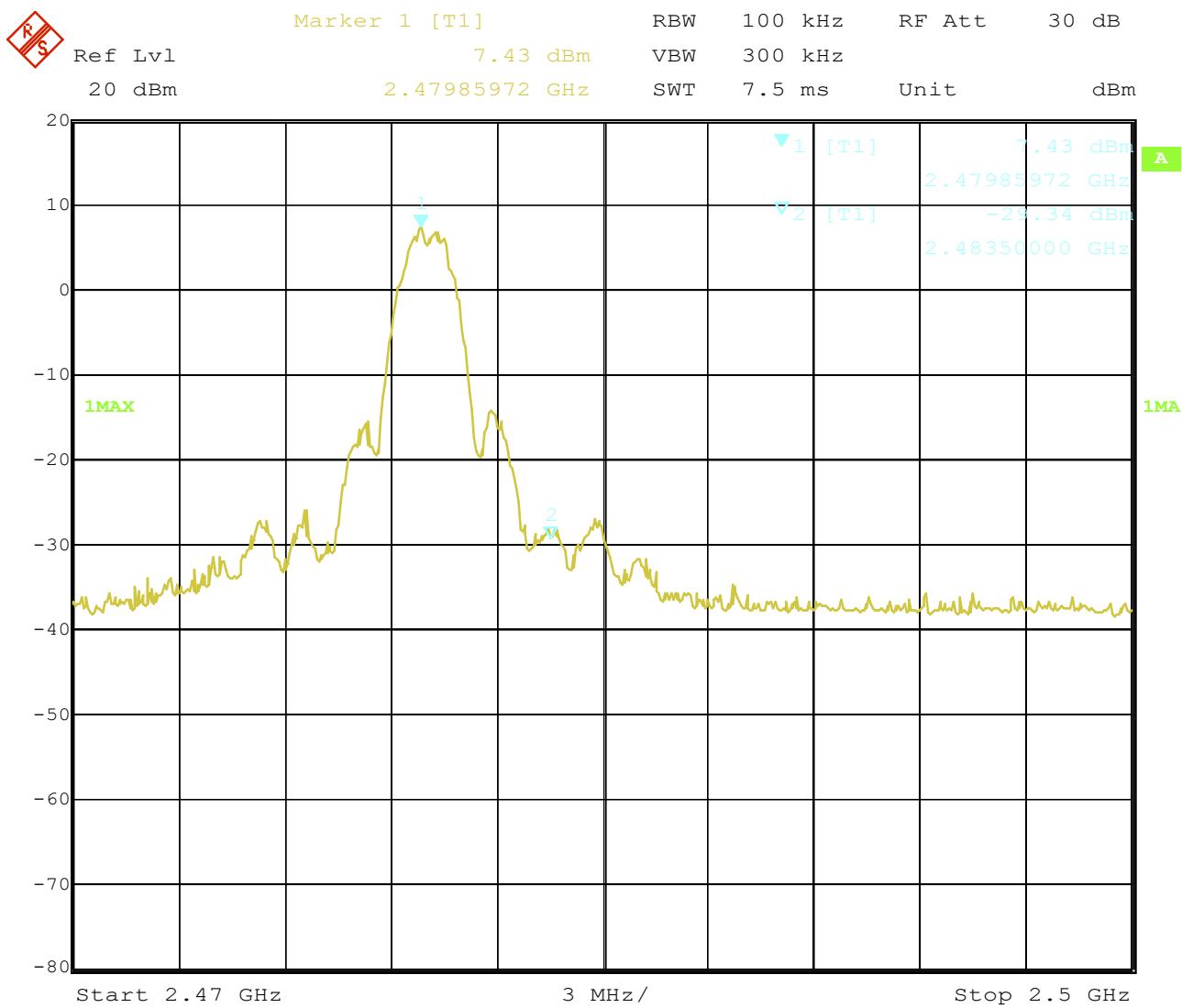
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12.4 Band Edge Test Result

| | | | |
|--------------|----------------------------|---------------|--------------|
| Product: | Falcon 800 2.4GHz RC Plane | Test Mode: | High Channel |
| Mode | Keeping Transmitting | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



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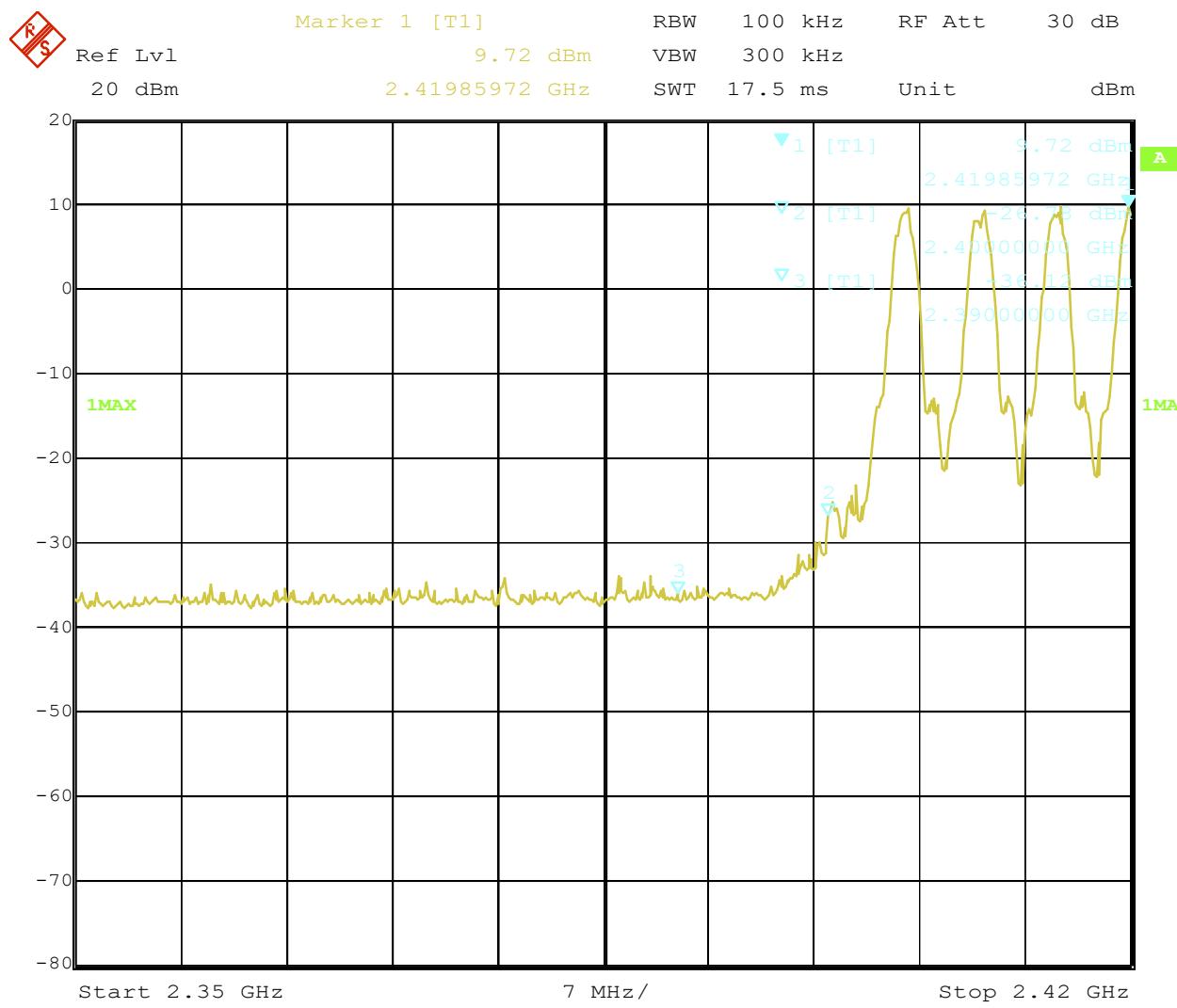
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12.4 Band Edge Test Result

| | | | |
|--------------|----------------------------|---------------|--------------|
| Product: | Falcon 800 2.4GHz RC Plane | Test Mode: | Hopping mode |
| Mode | Hopping On | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 5.JAN.2021 13:15:05

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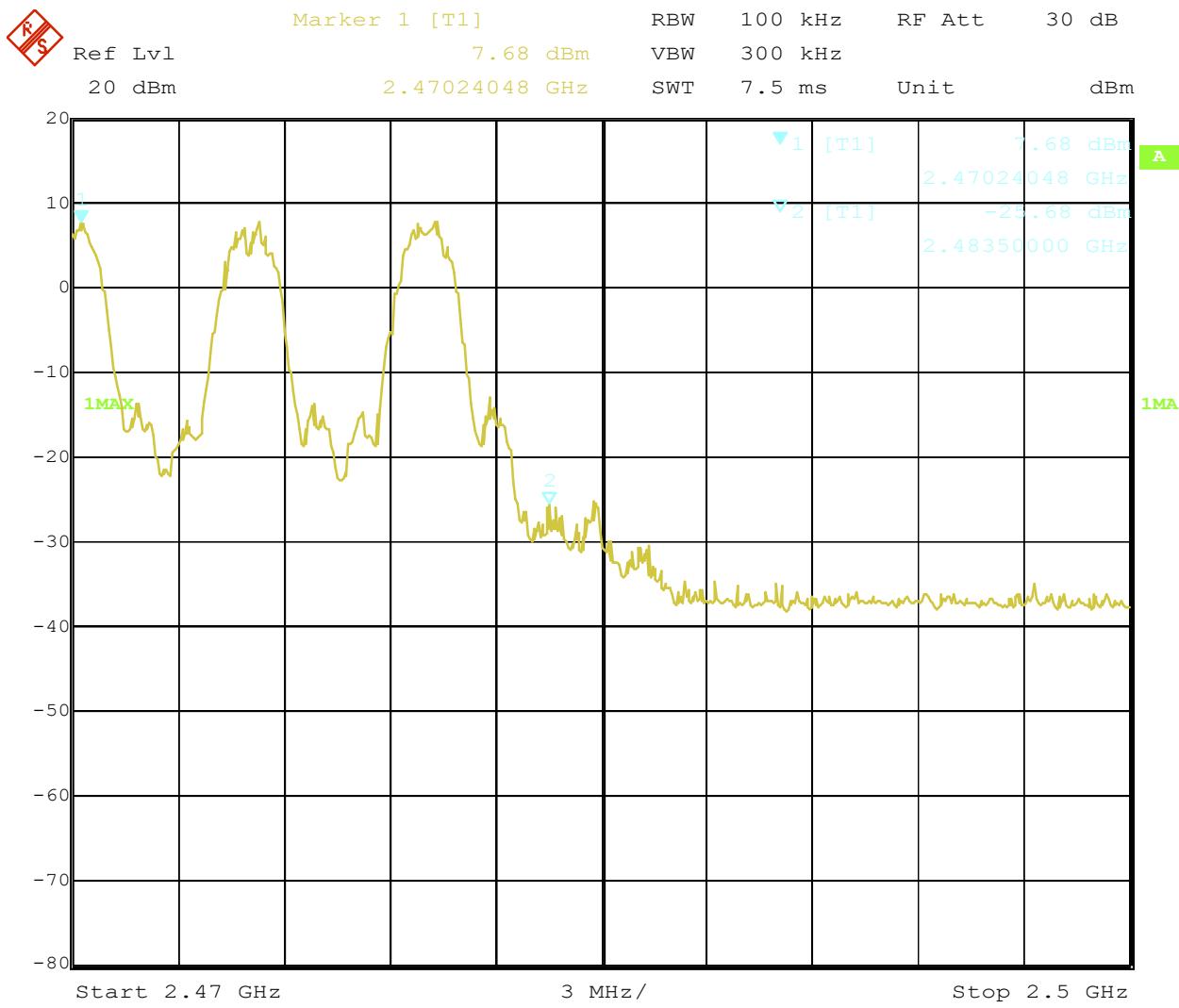
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12.4 Band Edge Test Result

| | | | |
|--------------|----------------------------|---------------|--------------|
| Product: | Falcon 800 2.4GHz RC Plane | Test Mode: | Hopping mode |
| Mode | Hopping On | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 5.JAN.2021 13:09:29

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| | | | |
|--------------|----------------------------|---------------|---------|
| EUT | Falcon 800 2.4GHz RC Plane | Model | XA02601 |
| Mode | Keep Transmitting | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | | |



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 2 | 2400.085 | 62.38 | -3.57 | 74.0 | -11.62 | Peak | 114.00 | 100 | Horizontal | Pass |
| 2** | 2400.085 | 49.69 | -3.57 | 54.0 | -4.31 | AV | 114.00 | 100 | Horizontal | Pass |
| 3 | 2390.002 | 48.72 | -3.53 | 74.0 | -25.28 | Peak | 249.00 | 100 | Horizontal | Pass |

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12.4 Restrict Band Measurement

| | | | |
|--------------|----------------------------|---------------|---------|
| EUT | Falcon 800 2.4GHz RC Plane | Model | XA02601 |
| Mode | Keep Transmitting | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | | |



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 2 | 2400.435 | 60.26 | -3.57 | 74.0 | -13.74 | Peak | 29.00 | 100 | Vertical | Pass |
| 2** | 2400.435 | 48.78 | -3.57 | 54.0 | -5.22 | AV | 29.00 | 100 | Vertical | Pass |
| 3 | 2390.002 | 47.60 | -3.53 | 74.0 | -26.40 | Peak | 42.00 | 100 | Vertical | Pass |

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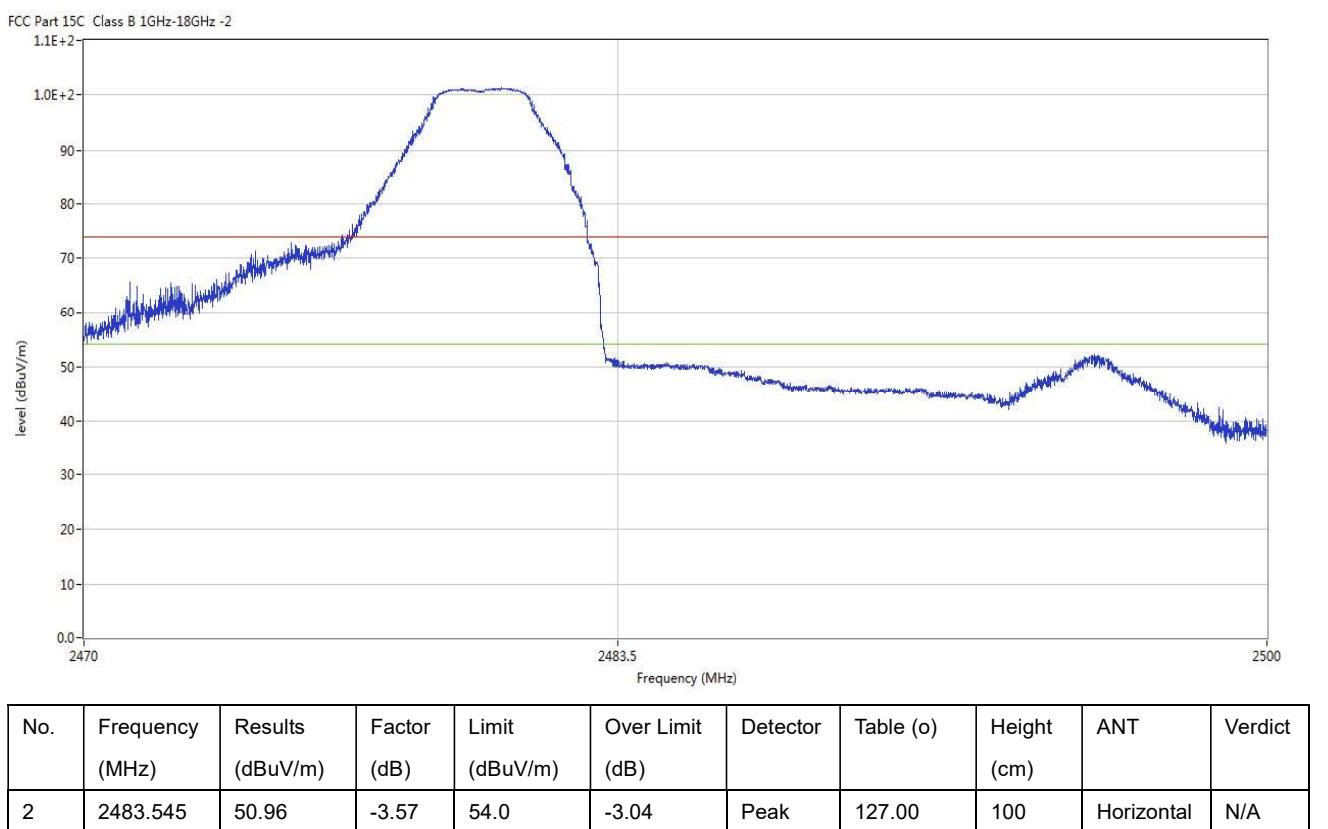
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12.4 Restrict Band Measurement

| | | | |
|--------------|----------------------------|---------------|---------|
| EUT | Falcon 800 2.4GHz RC Plane | Model | XA02601 |
| Mode | Keep Transmitting | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | | |



The report refers only to the sample tested and does not apply to the bulk.

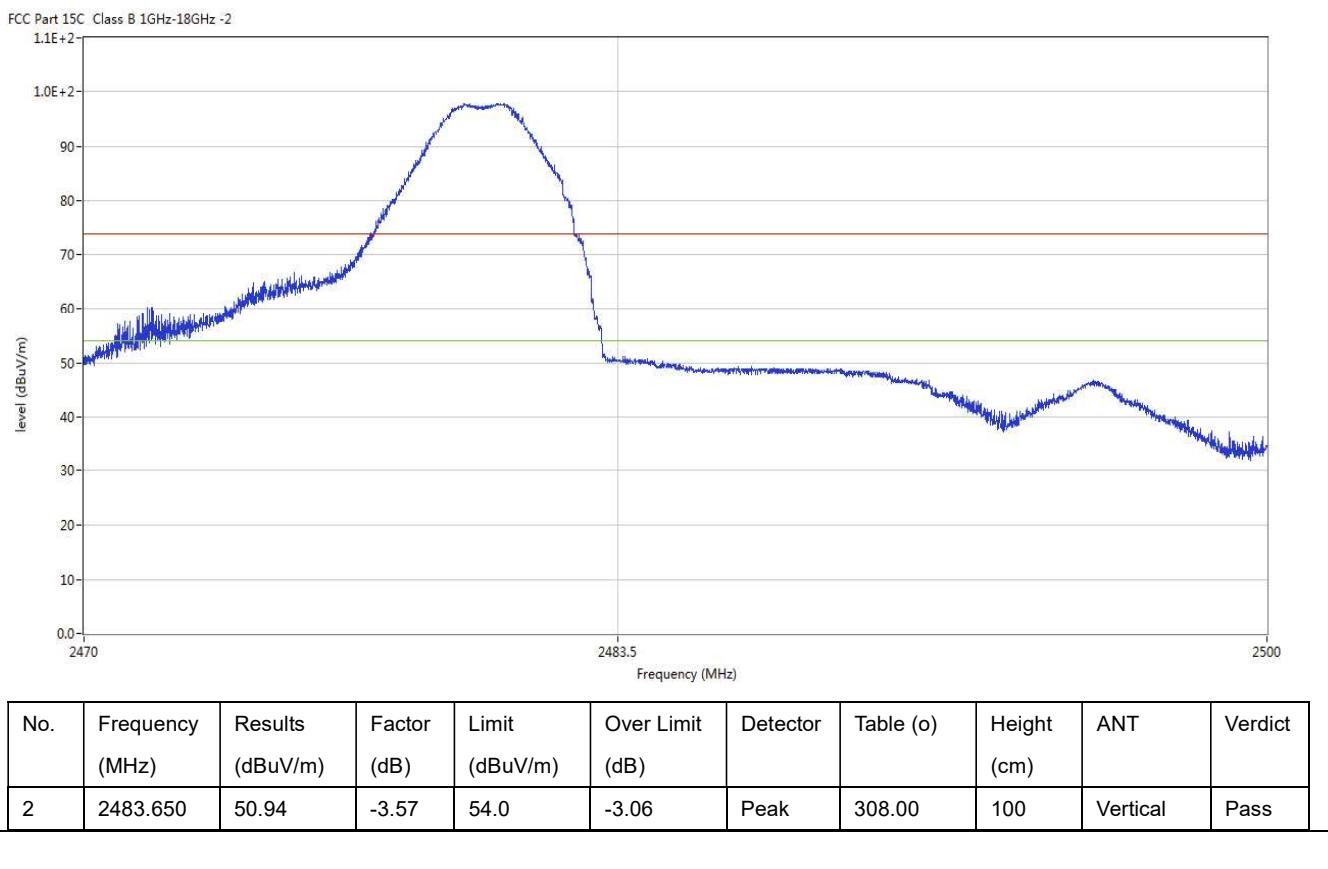
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12.4 Restrict Band Measurement

| | | | |
|--------------|----------------------------|---------------|---------|
| EUT | Falcon 800 2.4GHz RC Plane | Model | XA02601 |
| Mode | Keep Transmitting | Input Voltage | DC6.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | | |



Note: 1. Only the worst case was reported.
 2. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions

Dipole antenna used. The gain of the antennas is 0dBi.

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14.0 FCC ID Label

FCC ID: OJPXA02601

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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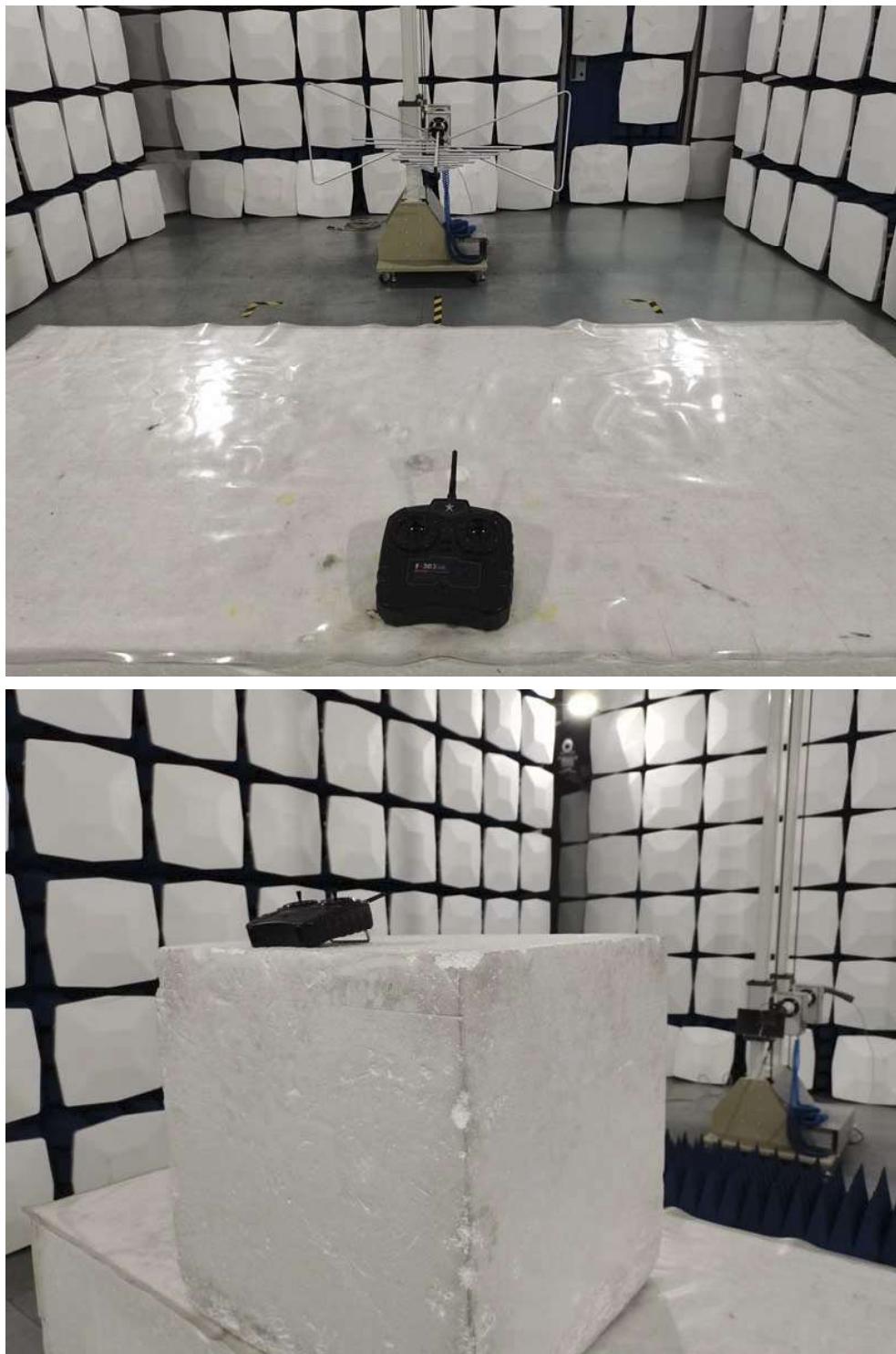
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15.0 Photo of testing

Radiated Emission Test Setup:



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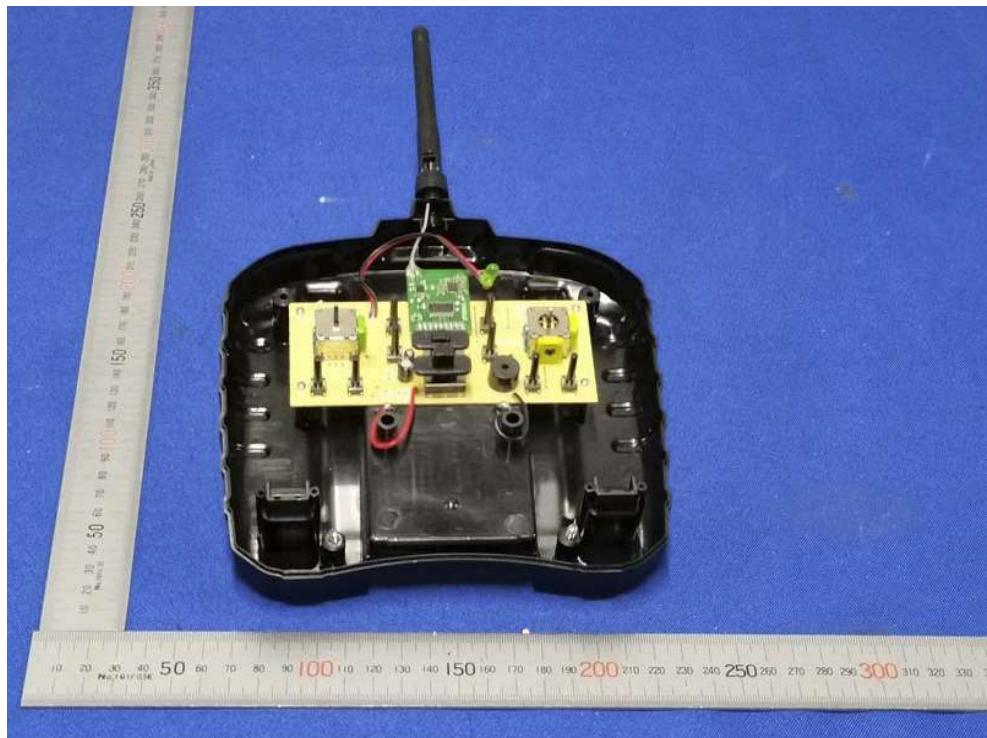
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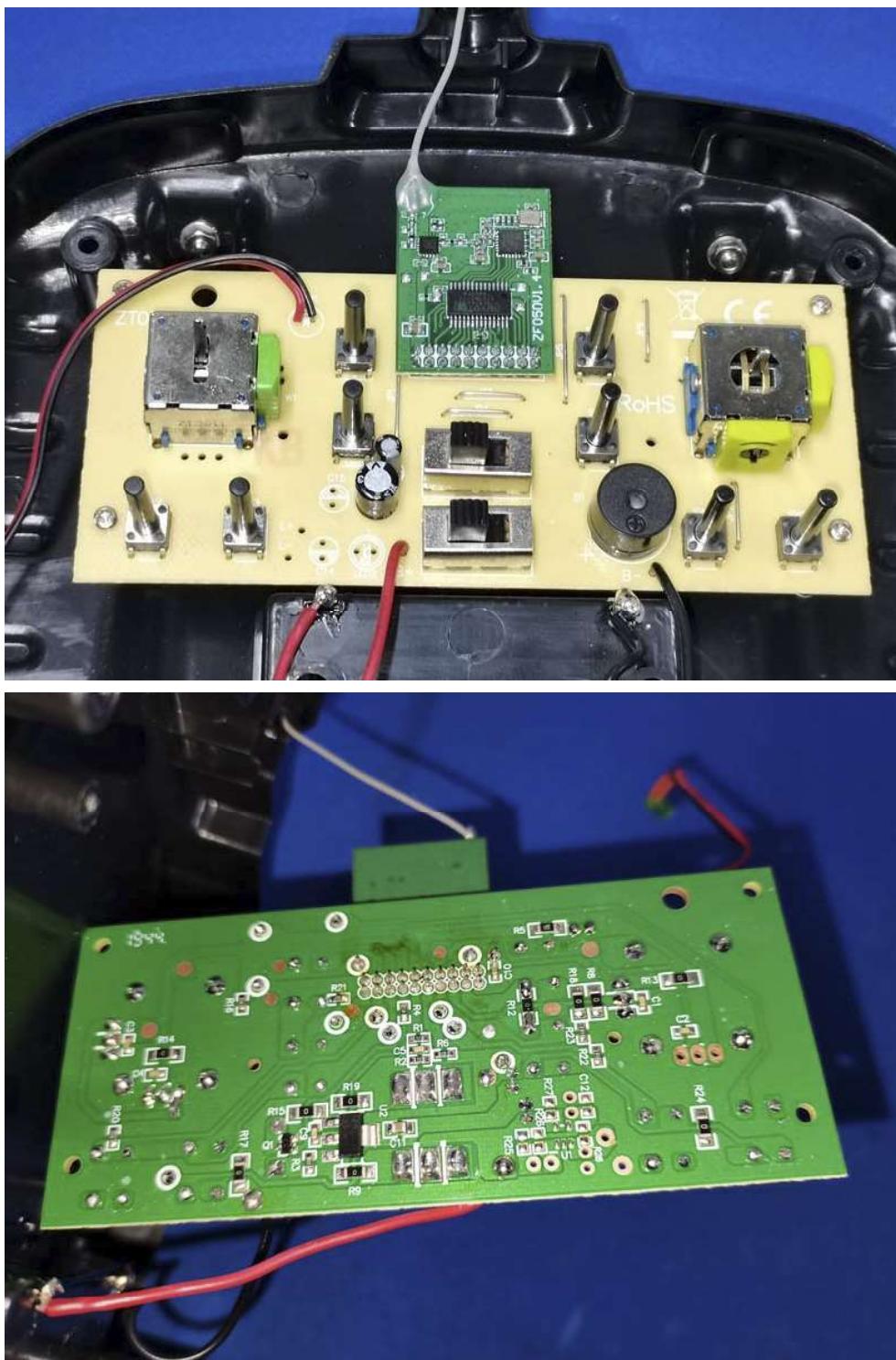
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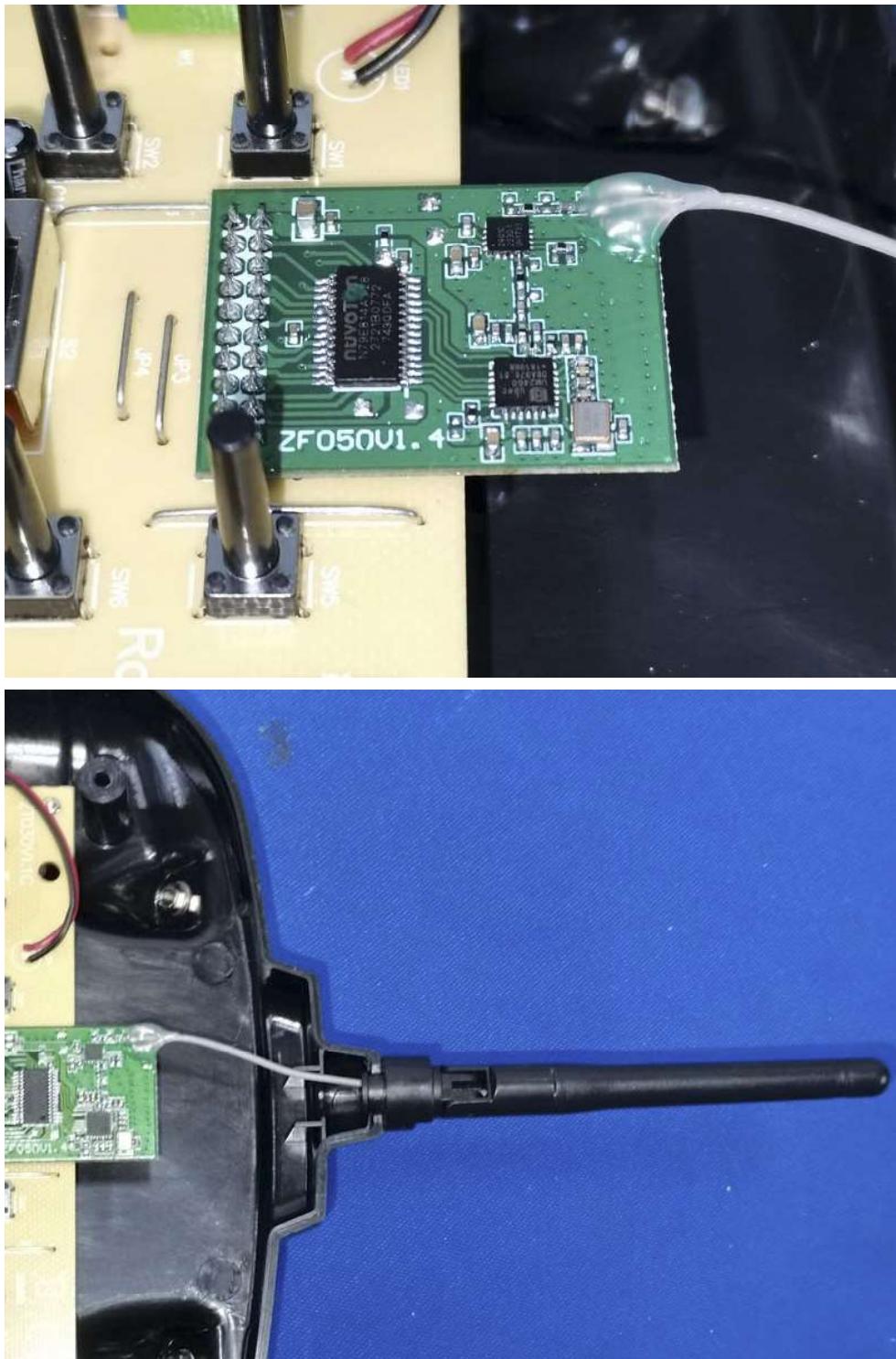
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