

FCC PART 15 SUBPART C MEASUREMENT AND TEST REPORT

For

SHENZHEN ART-TECH R/C HOBBY CO., LTD.

**23rd floor of Qifengda Building, Furong Road Songgang Street, Bao'an
District Shenzhen Guangdong China**

E.U.T.: 2.4G Radio Control System (AT002)

**Model Name: iEagle1 - 11500W, iEagle1 - 11501B, iEagle1 - 11502W,
iEagle1 - 11503B, iEagle1 - 11504W, iEagle1 - 11505B**

Brand Name: iEagle

FCC ID: 2AEOIIEAGLE-A

Report Number: NTC1503143F

Test Date(s): April 22, 2015 to May 23, 2015

Report Date(s): May 23, 2015

Prepared by

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Prepared By

Approved & Authorized Signer


Rose Hu / Engineer


Sunm Lv / Q.A. Director

**Note: This test report is for the customer shown above and their specific product only. It may not be duplicated or used in part without prior written consent from Dongguan NTC Co., Ltd.
The test results referenced from this report are relevant only to the sample tested.**

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

This device is a 2.4G transmitter; it's powered by 8*DC 1.5V AA battery. For more details features, please refer to User's Manual.

| | |
|---------------------------------|--|
| Manufacturer | : SHENZHEN ART-TECH R/C HOBBY CO., LTD. DONGGUAN BRANCH |
| Address | : ART-TECH Aviation Science Park, Industrial Road, Langzhou Village, ChangPing Town, Dongguan City, China |
| Frequency range: | : 2410-2476MHz |
| Modulation | : GFSK |
| Number of Channel | : 67 |
| Antenna Type | : Integral |
| Antenna Gain | : 0dBi (declaration by manufacturer) |
| Power Supply | : DC 12V (8*DC 1.5V AA Battery) |
| Model name | : iEagle1 - 11500W, iEagle1 - 11501B iEagle1 - 11502W, iEagle1 - 11503B iEagle1 - 11504W, iEagle1 - 11505B |
| Model Difference Description | : These models have the same circuit schematic, construction and critical components except model number and the color due to marketing purpose. |
| Note: | : N/A |

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AEOIIEAGLE-A filing to comply with Section 15.249 of the FCC Part 15 (2014), Subpart C Rule.

1.3 Test Methodology

The radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Support Device

N/A

1.6 Test Facility and Location

Listed by FCC, August 02, 2011
The Certificate Registration Number is 665078.
Listed by Industry Canada, July 01, 2011
The Certificate Registration Number is 9743A-1.

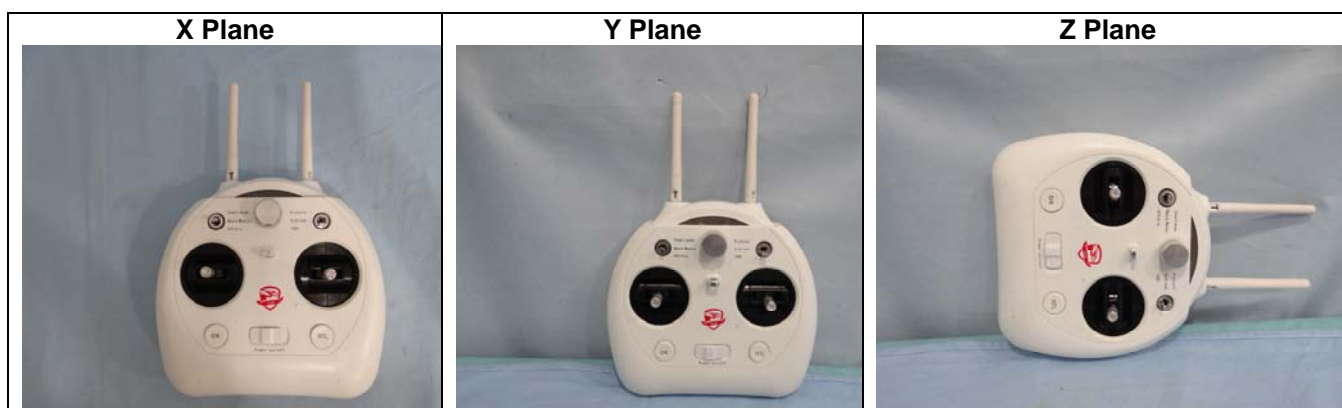
Dongguan NTC Co., Ltd.
(Full Name: Dongguan Nore Testing Center Co., Ltd.)

Building D, Gaosheng Science and Technology Park, Hongtu Road,
Nancheng District, Dongguan City, Guangdong, China
(Full Name: Building D, Gaosheng Science & Technology Park,
Zhouxi Longxi Road, Nancheng District, Dongguan, Guangdong, China.

1.7 Summary of Test Results

| FCC Rules | Description Of Test | Result |
|--------------------|---------------------|-----------|
| §15.249(a)/ 15.209 | Radiated Emissions | Compliant |
| §15.249(d)/ 15.205 | Band Edge | Compliant |
| §15.215(c) | 20dB Bandwidth | Compliant |
| §15.203 | Antenna Requirement | Compliant |

- Note: 1. The EUT has been tested as an independent unit. And Continual transmitting in maximum power (The new battery be used during test)
2. The EUT powered by battery and operating multiple positions, so the EUT shall be performed two or three orthogonal planes. The worst plane is X.



2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 Special Accessories

Not available for this EUT intended for grant.

2.3 Description of test modes

The EUT has been tested under operating condition. The Lowest, middle and highest frequencies were chosen for testing.

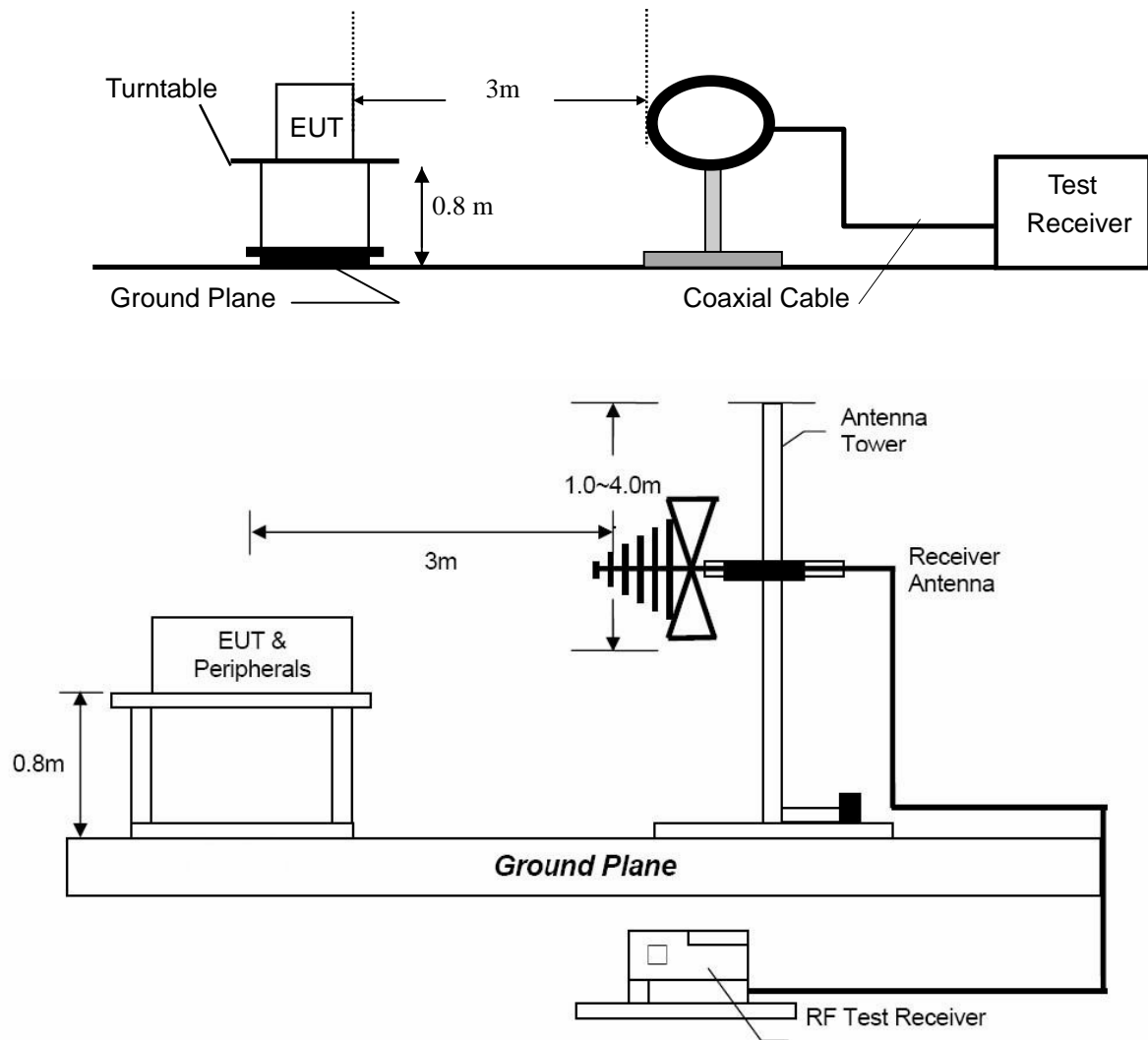
2.4 EUT Exercise

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

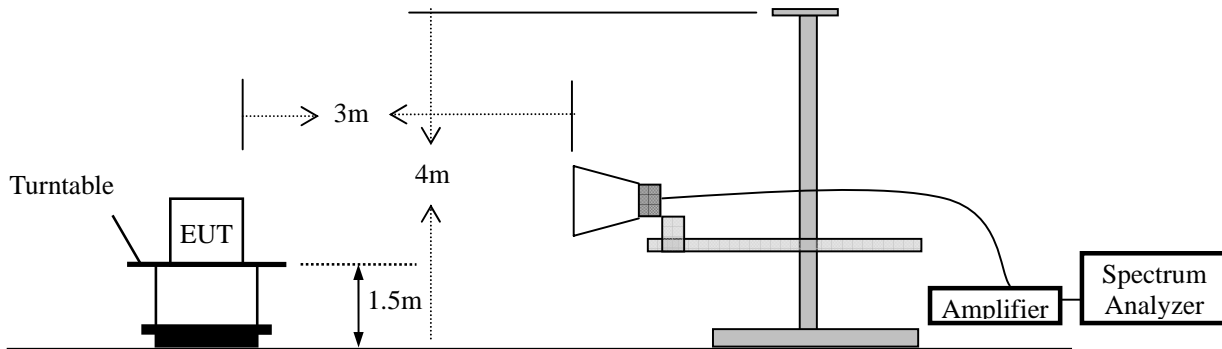
4. Radiated Emission Test

4.1 Test SET-UP (Block Diagram of Configuration)

4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz



4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



4.2 Measurement Procedure

- Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room. Above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi- anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

For 30MHz to 1GHz:

Set the spectrum analyzer as: RBW=120kHz, VBW=300kHz, Detector=Quasi-Peak

For Above 1GHz:

Set the spectrum analyzer as: RBW=1MHz, VBW=3MHz, Detector=Peak.

Set the spectrum analyzer as: RBW=1MHz, VBW=10Hz, Detector=Peak.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

| Frequency Band (MHz) | Level | Resolution Bandwidth | Video Bandwidth |
|----------------------|---------|----------------------|-----------------|
| 30 to 1000 | QP | 120 kHz | 300 kHz |
| Above 1000 | Peak | 1 MHz | 3 MHz |
| | Average | 1 MHz | 10 Hz |

4.3 Limit

| Frequency range MHz | Distance Meters | Field Strengths Limit (15.209) | |
|---------------------|-----------------|---|--|
| | | $\mu\text{V/m}$ | |
| 0.009 ~ 0.490 | 300 | 2400/F(kHz) | |
| 0.490 ~ 1.705 | 30 | 24000/F(kHz) | |
| 1.705 ~ 30 | 30 | 30 | |
| 30 ~ 88 | 3 | 100 | |
| 88 ~ 216 | 3 | 150 | |
| 216 ~ 960 | 3 | 200 | |
| Above 960 | 3 | 500 | |
| Frequency range MHz | Distance Meters | Field Strengths Limit (15.249) | |
| | | mV/m (Field strength of fundamental) | $\mu\text{V/m}$ (Field strength of Harmonics) |
| 902 ~ 928 | 3 | 50 | 500 |
| 2400 ~ 2483.5 | 3 | 50 | 500 |
| 5725 ~ 5875 | 3 | 50 | 500 |
| 24000 ~ 2425000 | 3 | 250 | 2500 |

- Remark : (1) Emission level (dB) μV = 20 log Emission level $\mu\text{V/m}$
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
(4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

4.4 Measurement Results

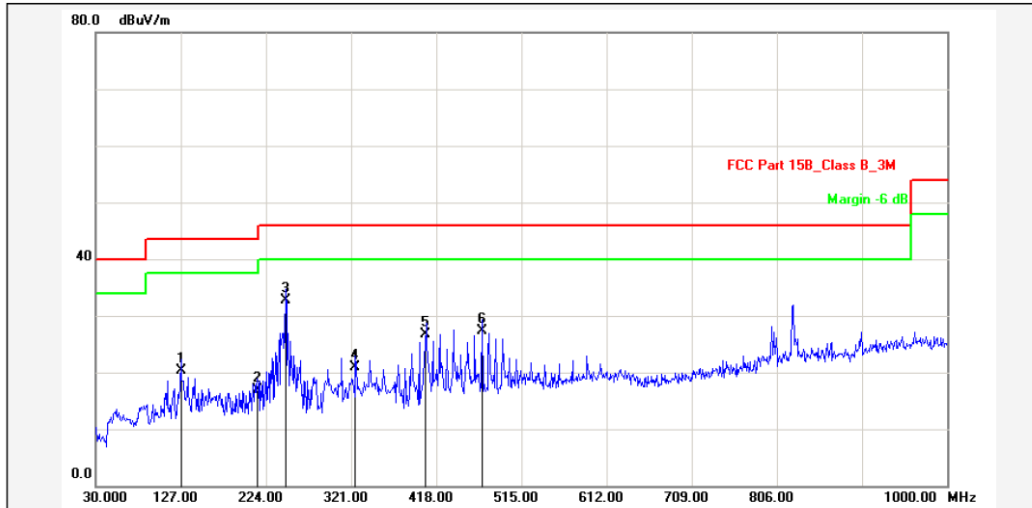
Please refer to following the test plots and data tables.



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Site: Radiation

Test Time: 2015-4-7 22:16:18



Report No.: iEagle1 - 11500W
Test Standard: FCC Part 15B_Class B_3M
Test item: Radiation Emission
Applicant: ART-TECH
Product: 2.4G Radio Control System (AT002)
Model No.: iEagle1 - 11500W

Test Distance:
Ant. Polarization: Horizontal
Temp.(C)/Hum.(%): 21(C) / 55 %
Power Rating: DC 12V
Test Engineer: Infen

Test Mode: TX

Remark:

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 | 127.0000 | -14.83 | 35.09 | 20.26 | 43.50 | -23.24 | QP | | | P | |
| 2 | 214.3000 | -13.13 | 30.08 | 16.95 | 43.50 | -26.55 | QP | | | P | |
| 3 | 246.3100 | -11.82 | 44.45 | 32.63 | 46.00 | -13.37 | QP | | | P | |
| 4 | 325.8500 | -9.74 | 30.59 | 20.85 | 46.00 | -25.15 | QP | | | P | |
| 5 | 406.3599 | -8.95 | 35.75 | 26.80 | 46.00 | -19.20 | QP | | | P | |
| 6 | 470.3799 | -7.46 | 34.80 | 27.34 | 46.00 | -18.66 | QP | | | P | |

Note: Level=Reading+Factor.

Margin=Limit-Level.

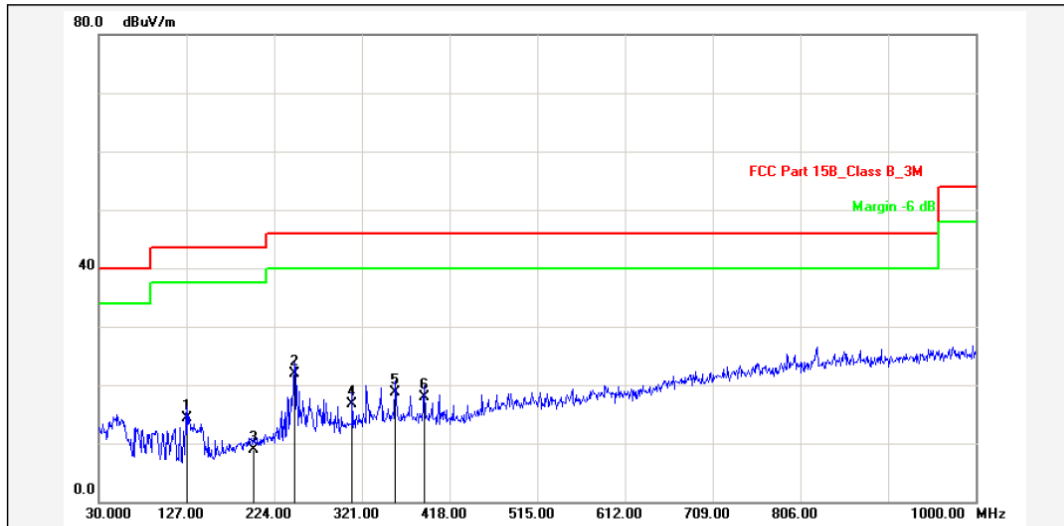
Other emissions are lower than 10dB below the allowable limit.



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Tel: +86-769-22022444 Fax: +86-769-22022799
Web: <http://www.ntc-c.com>

Site: Radiation

Test Time: 2015-4-7 22:12:53



Report No.: iEagle1 - 11500W

Test Standard: FCC Part 15B_Class B_3M

Test item: Radiation Emission

Applicant: ART-TECH

Product: 2.4G Radio Control System (AT002)

Model No.: iEagle1 - 11500W

Test Distance:

Ant. Polarization: Vertical

Temp.(C)/Hum.(%): 21(C) / 55 %

Power Rating: DC 12V

Test Engineer: Infen

Test Mode: TX

Remark:

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 | 127.0000 | -17.83 | 32.05 | 14.22 | 43.50 | -29.28 | QP | | | P | |
| 2 | 246.3100 | -14.19 | 36.02 | 21.83 | 46.00 | -24.17 | QP | | | P | |
| 3 | 201.6896 | -16.40 | 25.36 | 8.96 | 43.50 | -34.54 | QP | | | P | |
| 4 | 310.3299 | -12.20 | 28.93 | 16.73 | 46.00 | -29.27 | QP | | | P | |
| 5 | 357.8599 | -11.13 | 29.81 | 18.68 | 46.00 | -27.32 | QP | | | P | |
| 6 | 389.8700 | -11.15 | 29.07 | 17.92 | 46.00 | -28.08 | QP | | | P | |

Note: Level=Reading+Factor.

Margin=Limit-Level.

Other emissions are lower than 10dB below the allowable limit.

Frequency Range: 1-25GHz Test Date : May 15, 2015
Test Result: PASS Temperature : 21 °C
Measured Distance: 3m Humidity : 55 %
Test By: Sance

| Freq. (MHz) | Ant.Pol. H/V | Emission Level(dBuV) | | Limit 3m(dBuV/m) | | Margin(dB) | |
|--------------------------------|-----------------|----------------------|-------|------------------|-------|------------|--------|
| | | PK | AV | PK | AV | PK | AV |
| Operation Mode: TX Mode (Low) | | | | | | | |
| 2410 | V | 94.76 | 79.85 | 114.00 | 94.00 | -19.24 | -14.15 |
| 4820 | V | 53.16 | 42.69 | 74.00 | 54.00 | -20.84 | -11.31 |
| 7230 | V | 58.45 | 45.73 | 74.00 | 54.00 | -15.55 | -8.27 |
| --- | | | | | | | |
| 2410 | H | 98.44 | 82.36 | 114.00 | 94.00 | -25.56 | -11.64 |
| 4820 | H | 56.79 | 44.92 | 74.00 | 54.00 | -17.21 | -9.08 |
| 7230 | H | 57.48 | 45.31 | 74.00 | 54.00 | -16.52 | -8.69 |
| --- | | | | | | | |
| Operation Mode: TX Mode (Mid) | | | | | | | |
| 2441 | V | 93.14 | 78.22 | 114.00 | 94.00 | -20.86 | -15.78 |
| 4882 | V | 52.60 | 41.04 | 74.00 | 54.00 | -21.40 | -12.96 |
| 7323 | V | 56.37 | 44.95 | 74.00 | 54.00 | -17.63 | -9.05 |
| --- | | | | | | | |
| 2441 | H | 95.22 | 79.91 | 114.00 | 94.00 | -18.78 | -14.09 |
| 4882 | H | 55.38 | 43.40 | 74.00 | 54.00 | -18.62 | -10.60 |
| 7323 | H | 56.79 | 45.09 | 74.00 | 54.00 | -17.21 | -8.91 |
| --- | | | | | | | |
| Operation Mode: TX Mode (High) | | | | | | | |
| 2476 | V | 93.95 | 80.67 | 114.00 | 94.00 | -20.05 | -13.33 |
| 4952 | V | 54.12 | 43.50 | 74.00 | 54.00 | -19.88 | -10.50 |
| 7428 | V | 57.76 | 45.11 | 74.00 | 54.00 | -16.24 | -8.89 |
| --- | | | | | | | |
| 2476 | H | 96.09 | 81.32 | 114.00 | 94.00 | -17.91 | -12.68 |
| 4952 | H | 56.53 | 44.08 | 74.00 | 54.00 | -17.47 | -9.92 |
| 7428 | H | 57.87 | 46.26 | 74.00 | 54.00 | -16.13 | -7.74 |
| --- | | | | | | | |

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level + Factor
 - (3) Factor= Antenna Gain + Cable Loss – Amplifier Gain
 - (4) Data of measurement within this frequency range shown “ ---” in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
 - (5) Measurement uncertainty : ± 3.7 dB.
 - (6) Horn antenna used for the emission over 1000MHz.

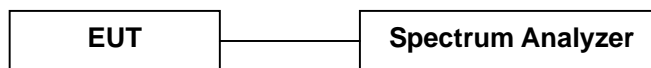
5. 20dB Bandwidth

5.1 Measurement Procedure

The 20dB bandwidth of the emission was contained within the frequency band designated which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered, FCC Rule 15.215(c):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Results

Refer to attached data chart.

| | | | |
|--------------------|--------|-------------|--------------|
| RBW: | 100KHz | VBW: | 300KHz |
| Spectrum Detector: | PK | | |
| Test By: | Sance | Test Date : | May 09, 2015 |
| Temperature : | 23 °C | Humidity : | 54 % |
| Test Result: | PASS | | |

| Channel frequency (MHz) | 20dB Down BW(kHz) |
|-------------------------|-------------------|
| 2410 | 1420 |
| 2441 | 1480 |
| 2476 | 1540 |

The screenshot shows a Spectrum Analyzer interface with a blue trace representing a signal. The signal is centered at 2.41 GHz, as indicated by the 'Center 2.41 GHz' label at the bottom. The frequency span is 10 MHz, and the resolution bandwidth (RBW) is 100 kHz. The signal level is approximately -6.40 dBm, and the noise floor is around -45 dBm. The display includes a grid and various measurement parameters such as 'Ref 5 dBm', 'Att 35 dB', 'SWT 2.5 ms', and 'Marker 1 [T1]'. The signal is identified as '1 PK MAX'.

Ref 5 dBm Att 35 dB SWT 2.5 ms Marker 1 [T1] -6.40 dBm
 2.410120000 GHz

1 PK MAX

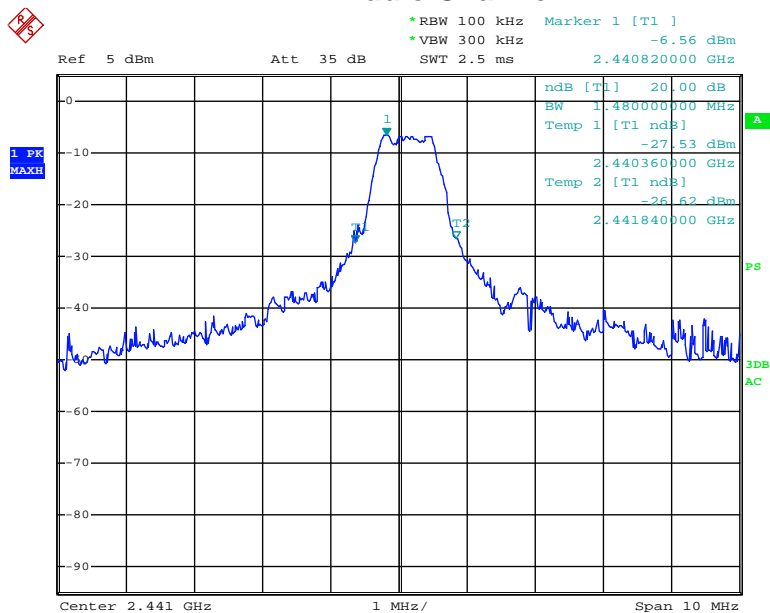
0 -10 -20 -30 -40 -50 -60 -70 -80 -90

1 MHz/

Span 10 MHz

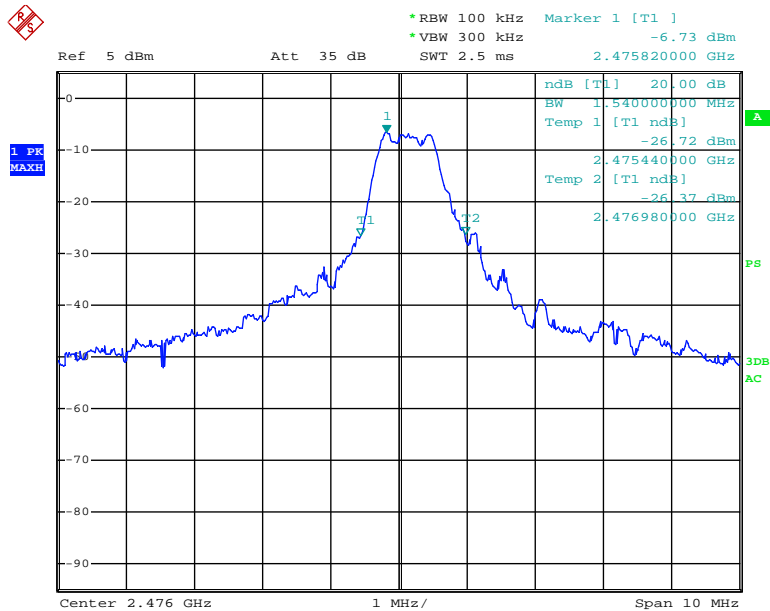
ndB [T1] 20.00 dB
 BW 1.420000000 MHz
 Temp 1 [T1 ndB] -26.02 dBm
 2.409400000 GHz
 Temp 2 [T1 ndB] -26.96 dBm
 2.410820000 GHz

Middle Channel



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Highest Channel



Date: 9.MAY.2015 10:41:52

6. Band Edge

6.1 Measurement Procedure

Same as Radiated Emission Test.

6.2 Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

6.3 Measurement Results

| | | | |
|--------------------|------------------------|-------------|--------------|
| Operation Mode: | TX Mode (Low, High) | Test Date : | May 15, 2015 |
| Temperature : | 21 °C | Humidity : | 55 % |
| Test Result: | PASS | Test By: | Sance |
| Measured Distance: | 3m | | |

| Freq. (MHz) | Ant. Pol. | Emission Level (dBuV) | | Limit 3m (dBuV/m) | | Margin (dB) | |
|----------------|--------------|--------------------------|-------|-------------------------|-------|----------------|--------|
| | | Peak | AV | Peak | AV | Peak | AV |
| 2399.990 | H | 48.54 | 36.76 | 74.00 | 54.00 | -25.46 | -17.24 |
| 2399.990 | V | 43.29 | 34.96 | 74.00 | 54.00 | -30.71 | -19.04 |
| 2483.510 | H | 46.73 | 35.81 | 74.00 | 54.00 | -27.27 | -18.19 |
| 2483.510 | V | 41.06 | 32.58 | 74.00 | 54.00 | -32.94 | -21.42 |

Note: (1) Emission Level= Reading Level + Factor
(2) Factor= Antenna Gain + Cable Loss – Amplifier Gain
(3) Horn antenna used for the emission over 1000MHz.

7. Antenna requirement

7.1 Measurement Procedure

According to of FCC part 15C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.2 Measurement Results

The antenna is integral antenna that no antenna other than that furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0dBi, So, the antenna is consider meet the requirement.

8. Test Equipment List

| Description | Manufacturer | Model Number | Serial Number | Characteristics | Calibration Date | Calibration Due Date |
|--------------------------------|-----------------|--------------|---------------|-----------------|------------------|----------------------|
| Test Receiver | Rohde & Schwarz | ESCI7 | 100837 | 9KHz~7GHz | Nov. 24, 2014 | Nov. 23, 2015 |
| Antenna | Schwarzbeck | VULB9162 | 9162-010 | 30MHz~7GHz | Nov. 27, 2014 | Nov. 26, 2015 |
| Positioning Controller | UC | UC 3000 | N/A | 0~360° , 1-4m | N/A | N/A |
| Color Monitor | SUNSPO | SP-140A | N/A | N/A | N/A | N/A |
| Single Phase Power Line Filter | SAEMC | PF201A-32 | 110210 | 32A | N/A | N/A |
| 3 Phase Power Line Filter | SAEMC | PF401A-200 | 110318 | 200A | N/A | N/A |
| DC Power Filter | SAEMC | PF301A-200 | 110245 | 200A | N/A | N/A |
| Cable | Huber+Suhner | CBL2-NN-1M | 22390001 | 9KHz~7GHz | Nov. 08, 2014 | Nov. 07, 2015 |
| Cable | Huber+Suhner | CIL02 | N/A | 9KHz~7GHz | Nov. 08, 2014 | Nov. 07, 2015 |
| Power Amplifier | HP | HP 8447D | 1145A00203 | 100KHz~1.3GHz | Nov. 08, 2014 | Nov. 07, 2015 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-372 | 15GHz~26.5GHz | Oct.24, 2014 | Oct.23, 2015 |
| Horn Antenna | Com-Power | AH-118 | 071078 | 1GHz~18GHz | Nov. 06, 2014 | Nov. 05, 2015 |
| Loop antenna | Daze | ZA30900A | 0708 | 9KHz~30MHz | Oct.11, 2014 | Oct.10, 2015 |
| Spectrum Analyzer | Rohde & Schwarz | FSU26 | 200409/026 | 20Hz~26.5GHz | Sep. 02, 2014 | Sep. 01, 2015 |
| Pre-Amplifier | Agilent | 8449B | 3008A02964 | 1GHz~26.5GHz | Nov. 04, 2014 | Nov. 03, 2015 |
| L.I.S.N. | Rohde & Schwarz | ENV 216 | 101317 | 9KHz~30MHz | Nov. 08, 2014 | Nov. 07, 2015 |

---End of report---