

## APPLICATION CERTIFICATION FCC Part 15C

On Behalf of

China Industries Ltd T/A Wow! Stuff

Ai Camera Drone

Model No.: TX-1027

FCC ID: YCR-TX-1027H

Prepared for : China Industries Ltd T/A Wow! Stuff  
Address : Creative Industries Centre, Wolverhampton Science  
Park, Wolverhampton, WV10 9TG UK

Prepared by : ACCURATE TECHNOLOGY CO., LTD  
Address : F1, Bldg. A, Chan Yuan New Material Port, Keyuan  
Rd. Science & Industry Park, Nan Shan, Shenzhen,  
Guangdong P.R. China

Tel: (0755) 26503290

Fax: (0755) 26503396

Report Number : ATE20160957  
Date of Test : May 20, 2016--Jun 14, 2016  
Date of Report : Jun 15, 2016

## TABLE OF CONTENTS

Description	Page
Test Report Certification	
<b>1. GENERAL INFORMATION</b>	<b>4</b>
1.1. Description of Device (EUT)	4
1.2. Special Accessory and Auxiliary Equipment	4
1.3. Description of Test Facility	5
1.4. Measurement Uncertainty	5
<b>2. MEASURING DEVICE AND TEST EQUIPMENT</b>	<b>6</b>
<b>3. OPERATION OF EUT DURING TESTING</b>	<b>7</b>
3.1. Carrier Frequency of Channels	7
3.2. Configuration and peripherals	7
<b>4. TEST PROCEDURES AND RESULTS</b>	<b>8</b>
<b>5. 20DB BANDWIDTH MEASUREMENT</b>	<b>9</b>
5.1. Block Diagram of Test Setup	9
5.2. The Requirement For Section 15.215(c)	9
5.3. Operating Condition of EUT	9
5.4. Test Procedure	9
5.5. Test Result	10
<b>6. BAND EDGE COMPLIANCE TEST</b>	<b>12</b>
6.1. Block Diagram of Test Setup	12
6.2. The Requirement For Section 15.249	12
6.3. EUT Configuration on Measurement	12
6.4. Restricted bands of operation	13
6.5. Operating Condition of EUT	13
6.6. Test Procedure	14
6.7. Test Result	14
<b>7. RADIATED SPURIOUS EMISSION TEST</b>	<b>19</b>
7.1. Block Diagram of Test Setup	19
7.2. The Limit For Section 15.249	20
7.3. Configuration of EUT on Measurement	20
7.4. Operating Condition of EUT	20
7.5. Test Procedure	21
7.6. The Field Strength of Radiation Emission Measurement Results	22
<b>8. ANTENNA REQUIREMENT</b>	<b>35</b>
8.1. The Requirement	35
8.2. Antenna Construction	35

## Test Report Certification

Applicant : China Industries Ltd T/A Wow! Stuff  
Address : Creative Industries Centre, Wolverhampton Science Park,  
Wolverhampton, WV10 9TG UK  
Manufacturer : China Industries Ltd T/A Wow! Stuff  
Address : Creative Industries Centre, Wolverhampton Science Park,  
Wolverhampton, WV10 9TG UK  
Product : Ai Camera Drone  
Model No. : TX-1027  
Trade Name : TX Juice

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 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 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 ACCURATE TECHNOLOGY CO. LTD.

Date of Test : May 20, 2016--Jun 14, 2016  
Date of Report : Jun 15, 2016

Prepared by :   
(Tim.zhang, Engineer)

Approved & Authorized Signer :   
( Sean Liu, Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT	:	Ai Camera Drone
Model Number	:	TX-1027
Power Supply	:	4.5V DC (power by battery)
Operate Frequency	:	2410-2473MHz
Antenna Gain	:	0dBi
Antenna type	:	Internal Antenna
Applicant	:	China Industries Ltd T/A Wow! Stuff
Address	:	Creative Industries Centre, Wolverhampton Science Park, Wolverhampton, WV10 9TG UK
Manufacturer	:	China Industries Ltd T/A Wow! Stuff
Address	:	Creative Industries Centre, Wolverhampton Science Park, Wolverhampton, WV10 9TG UK
Date of sample received	:	May 20, 2016
Date of Test	:	May 20, 2016--Jun 14, 2016

### 1.2. Special Accessory and Auxiliary Equipment

N/A

### 1.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC  
The Registration Number is 752051

Listed by Industry Canada  
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee  
for Laboratories  
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

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

### 1.4. 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	Type	S/N	Calibrated dates	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 09, 2016	One Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 09, 2016	One Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 09, 2016	One Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 09, 2016	One Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 14, 2016	One Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2016	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2016	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan. 14, 2016	One Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 09, 2016	One Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 09, 2016	One Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 09, 2016	One Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 09, 2016	One Year

### 3. OPERATION OF EUT DURING TESTING

#### 3.1.Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	4	2429	7	2451	10	2473
2	2417	5	2437	8	2459		
3	2423	6	2442	9	2461		

#### 3.2.Configuration and peripherals

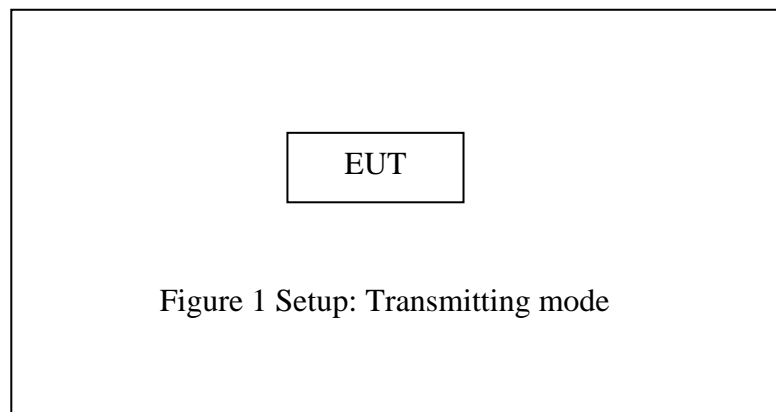


Figure 1 Setup: Transmitting mode

#### 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 2410, 2442, 2473MHz.

### 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.

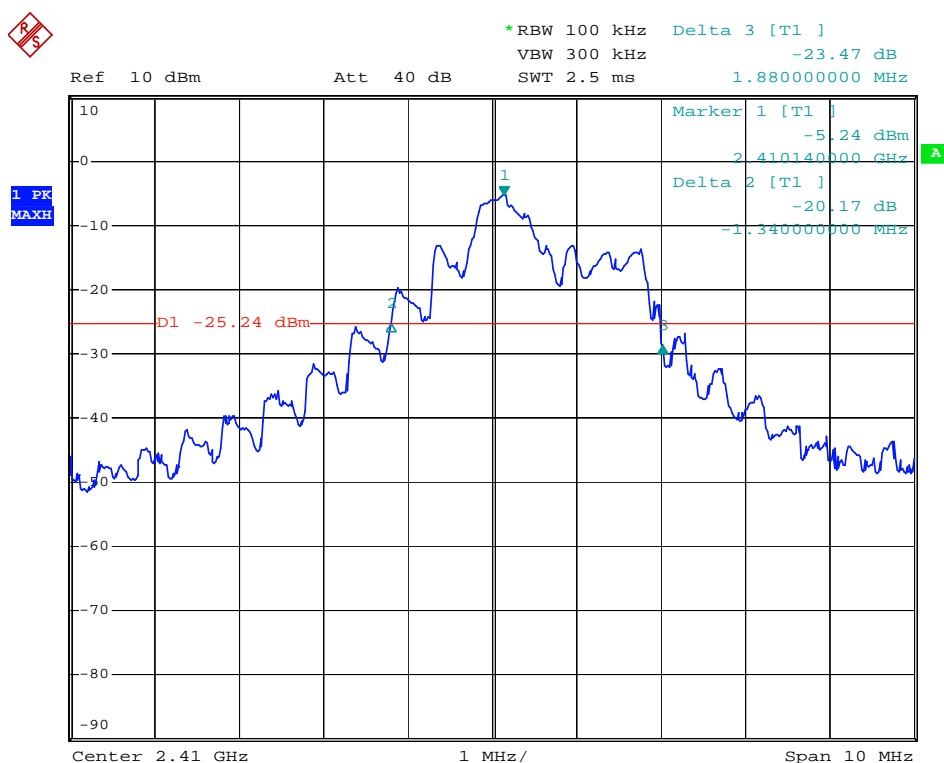
5.4.4. Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

## 5.5. Test Result

Channel	Frequency(MHz)	20 dB Bandwidth(MHz)
Low	2410	3.220
Middle	2442	3.760
High	2473	3.800

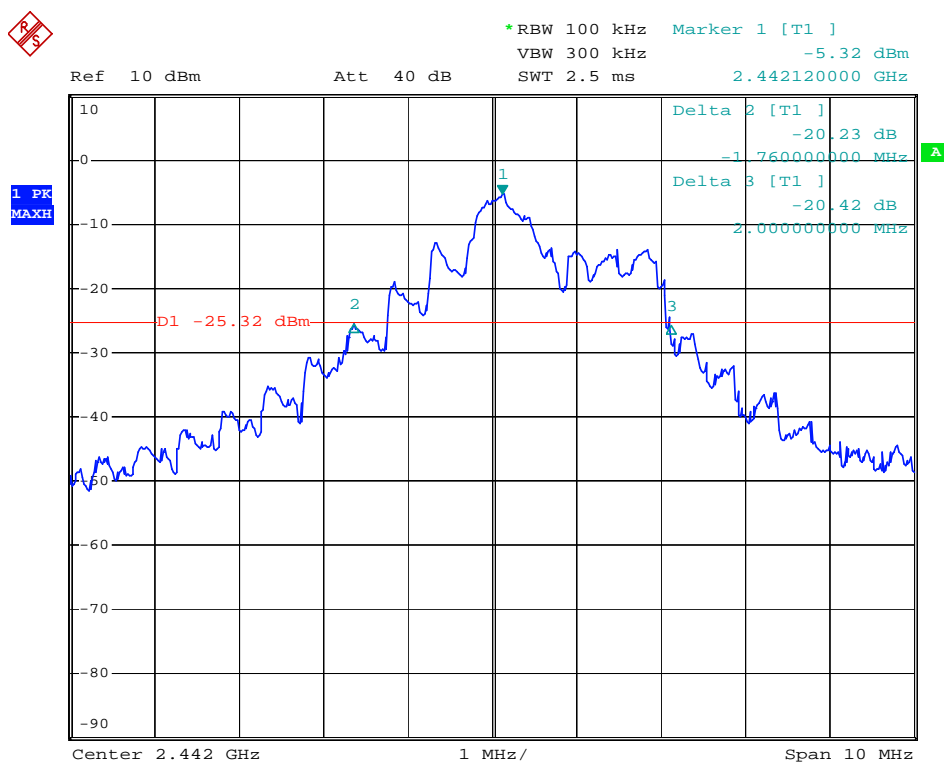
The spectrum analyzer plots are attached as below.

### Low channel



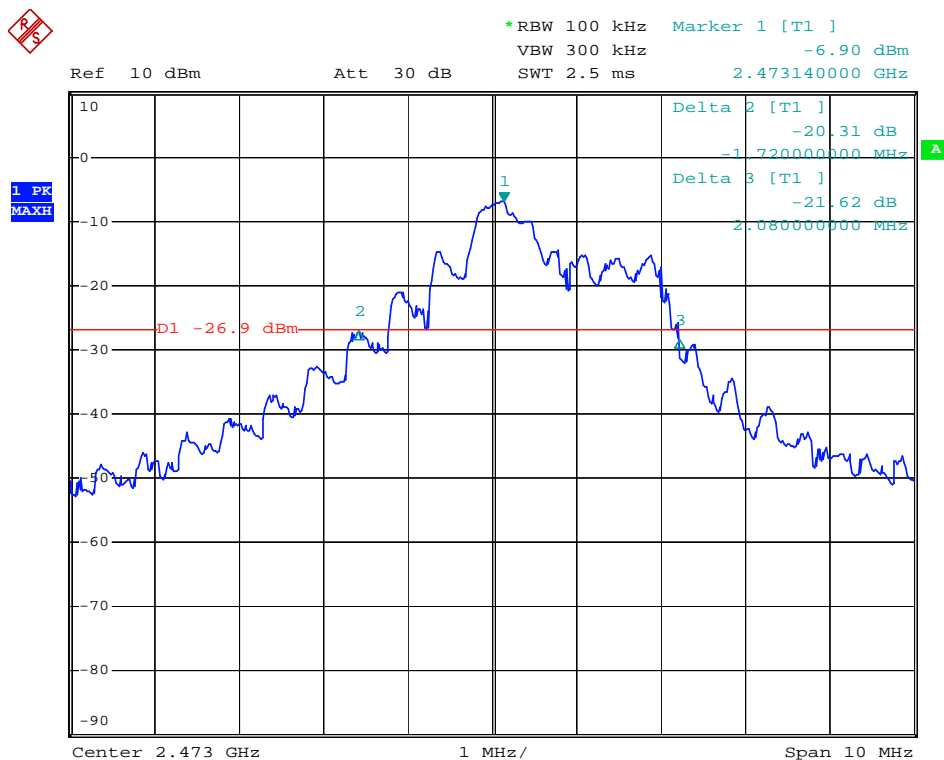
Date: 8.JUN.2016 10:43:35

## Middle channel



Date: 8.JUN.2016 10:57:31

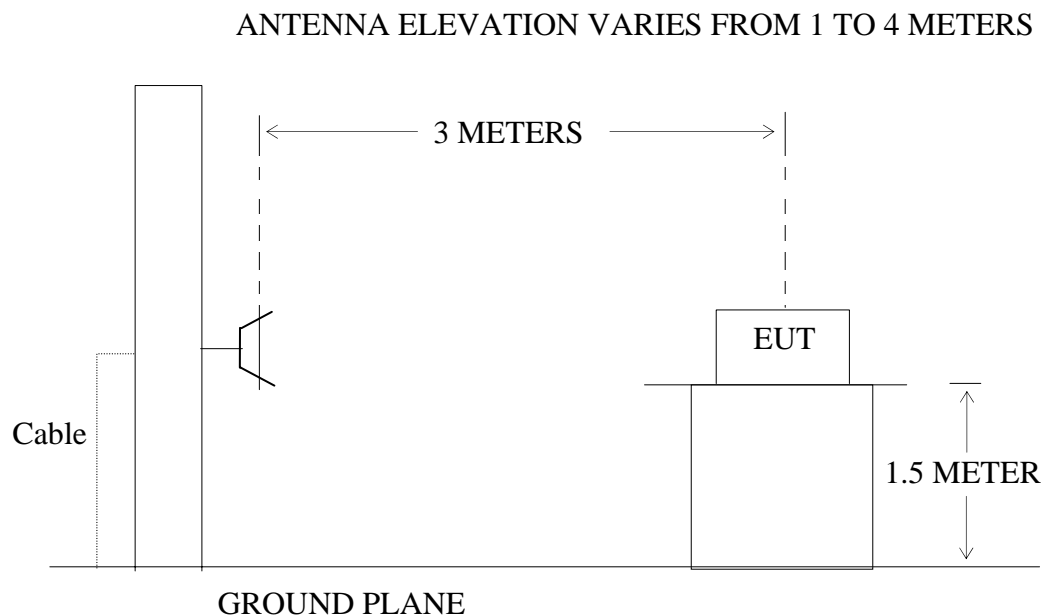
## High channel



Date: 8.JUN.2016 10:26:56

## 6. BAND EDGE COMPLIANCE TEST

### 6.1. Block Diagram of Test Setup



### 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.

## 6.4.Restricted bands of operation

### 6.4.1.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
<sup>1</sup> 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	( <sup>2</sup> )
13.36-13.41			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510

<sup>2</sup>Above 38.6

(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 Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

## 6.5.Operating Condition of EUT

6.5.1.Setup the EUT and simulator as shown as Section 6.1.

6.5.2.Turn on the power of all equipment.

6.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2410, 2473MHz.

## 6.6. Test Procedure

### Radiate Band Edge:

- 6.6.1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
- 6.6.2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 6.6.3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 6.6.4. 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
- 6.6.5. The band edges were measured and recorded.

## 6.7. 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:  
$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.
4. The average measurement was not performed when peak measured data under the limit of average detection.

Job No.: STAR2015\_tmp #50

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2473MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Horizontal

Power Source: DC 4.5V

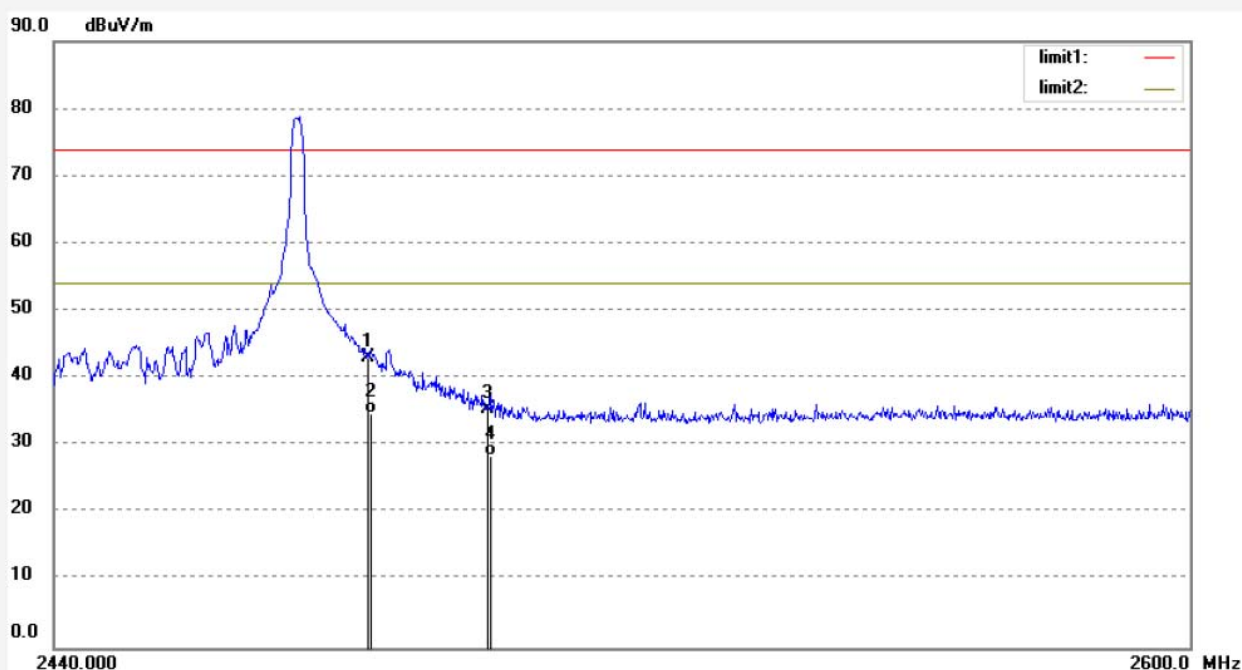
Date: 2016-5-24

Time: 1:38:01

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



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	50.44	-7.37	43.07	74.00	-30.93	peak			
2	2483.500	42.17	-7.37	34.80	54.00	-19.20	peak			
3	2500.000	42.87	-7.40	35.47	74.00	-38.53	peak			
4	2500.000	35.76	-7.40	28.36	54.00	-25.64	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: STAR2015\_tmp #49

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2473MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Vertical

Power Source: DC 4.5V

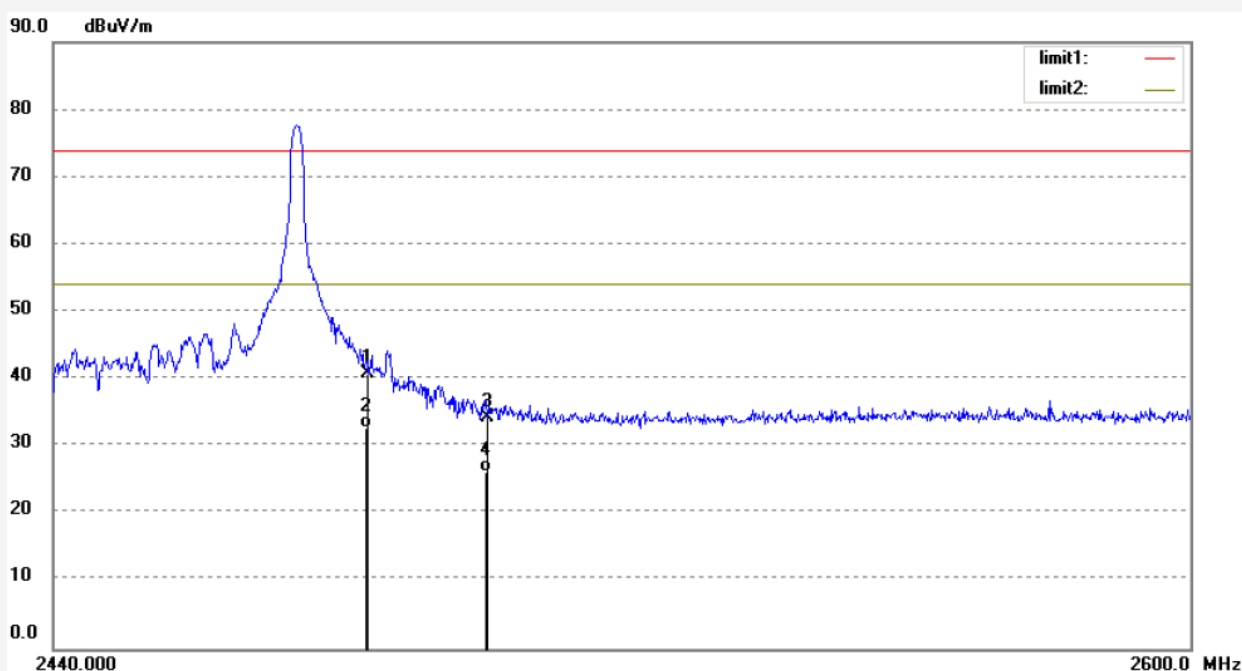
Date: 2016-5-24

Time: 1:37:02

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



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	48.25	-7.37	40.88	74.00	-33.12	peak			
2	2483.500	40.14	-7.37	32.77	54.00	-21.23	peak			
3	2500.000	41.77	-7.40	34.37	74.00	-39.63	peak			
4	2500.000	33.67	-7.40	26.27	54.00	-27.73	peak			

Note: Average measurement with peak detection at No.2&amp;4



Job No.: STAR2015\_tmp #51

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2410MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Horizontal

Power Source: DC 4.5V

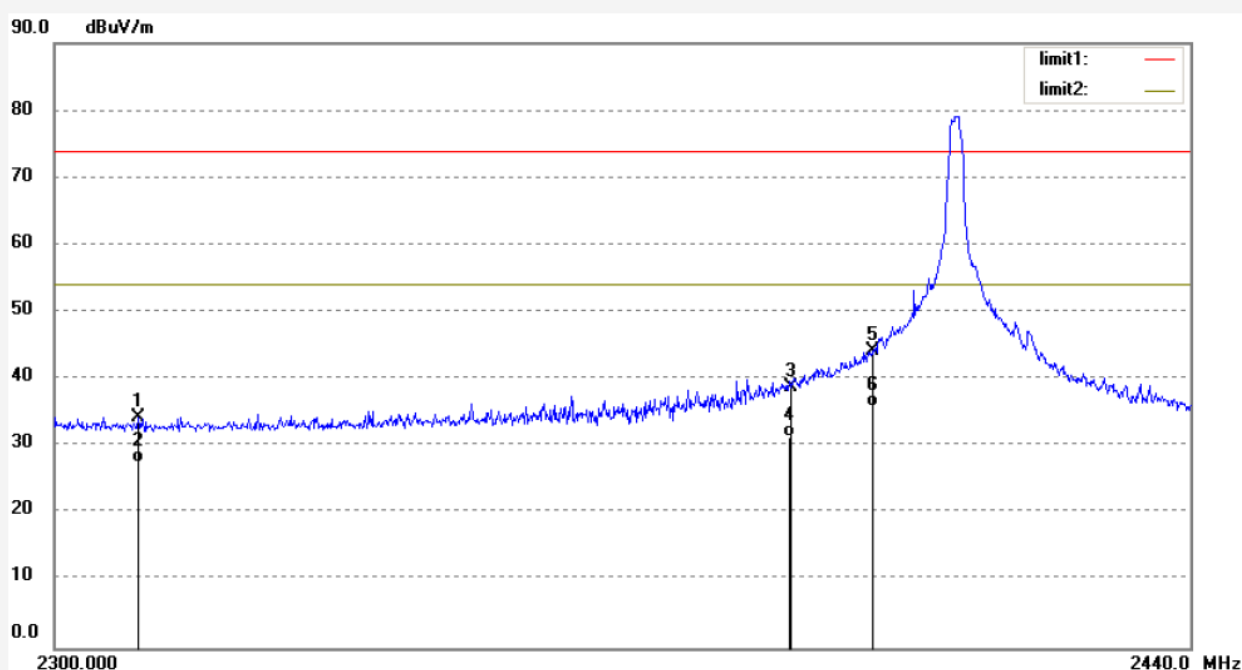
Date: 2016-5-24

Time: 1:40:08

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	42.09	-7.81	34.28	74.00	-39.72	peak			
2	2310.000	35.40	-7.81	27.59	54.00	-26.41	peak			
3	2390.000	46.45	-7.53	38.92	74.00	-35.08	peak			
4	2390.000	39.01	-7.53	31.48	54.00	-22.52	peak			
5	2400.000	51.76	-7.46	44.30	74.00	-29.70	peak			
6	2400.000	43.27	-7.46	35.81	54.00	-18.19	peak			

Note: Average measurement with peak detection at No.2&amp;4&amp;6

Job No.: STAR2015\_tmp #52

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2410MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Vertical

Power Source: DC 4.5V

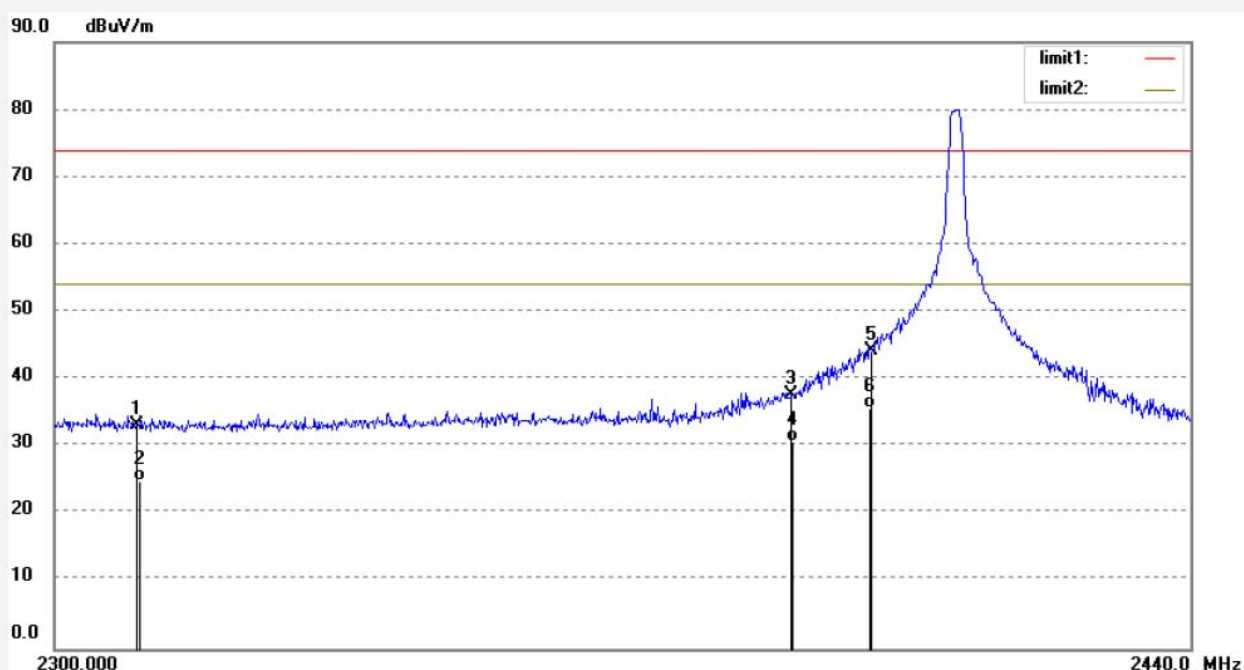
Date: 2016-5-24

Time: 1:41:14

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	40.97	-7.81	33.16	74.00	-40.84	peak			
2	2310.000	32.77	-7.81	24.96	54.00	-29.04	peak			
3	2390.000	45.14	-7.53	37.61	74.00	-36.39	peak			
4	2390.000	38.35	-7.53	30.82	54.00	-23.18	peak			
5	2400.000	51.68	-7.46	44.22	74.00	-29.78	peak			
6	2400.000	43.14	-7.46	35.68	54.00	-18.32	peak			

Note: Average measurement with peak detection at No.2&4&6

## 7. RADIATED SPURIOUS EMISSION TEST

### 7.1. Block Diagram of Test Setup

#### 7.1.1. Block diagram of connection between the EUT and peripherals

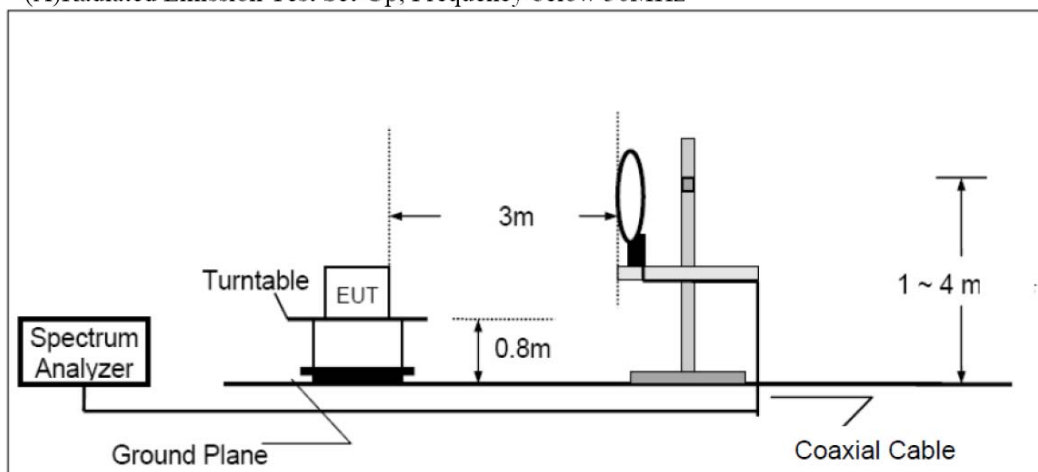


Setup: Transmitting mode

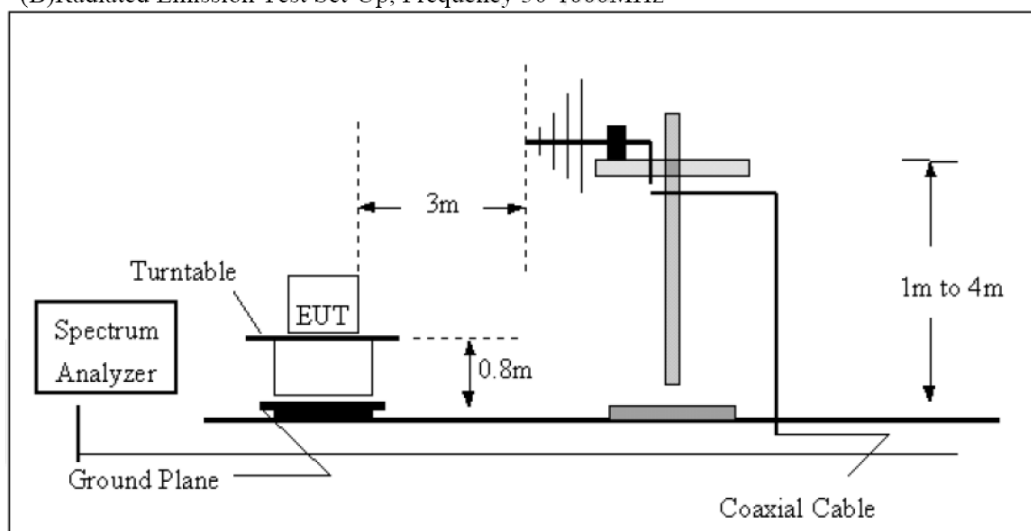
(EUT: Ai Camera Drone)

#### 7.1.2. Semi-Anechoic Chamber Test Setup Diagram

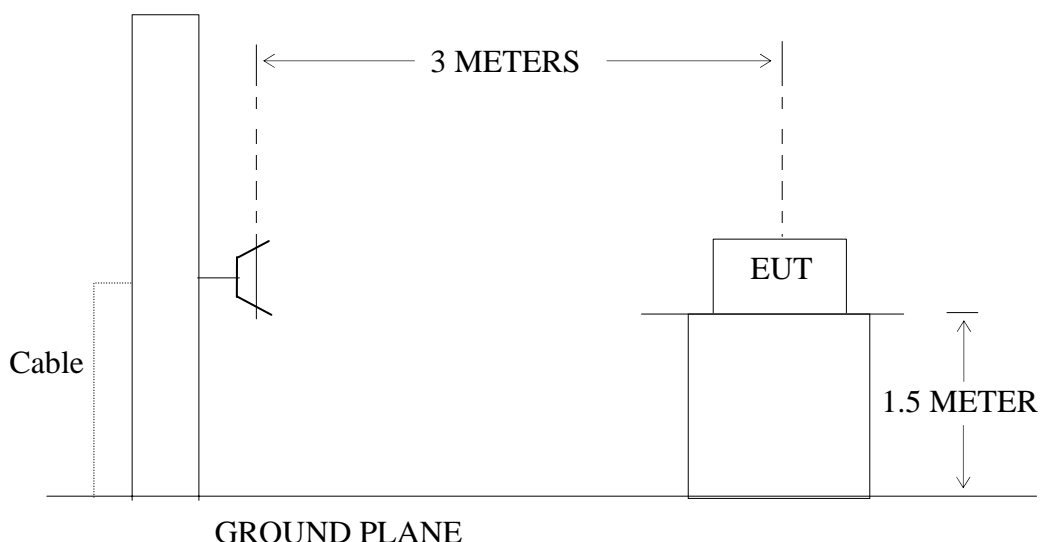
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



### (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.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.

### 7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown as Section 7.1.

7.4.2.Turn on the power of all equipment.

7.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2410, 2442, 2473MHz.

### 7.5. 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. The EUT was tested in 3 orthogonal planes.

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 25GHz 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

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

## 7.6.The Field Strength of Radiation Emission Measurement Results

### PASS.

From 9kHz to 30MHz

Frequency(MHz)	Quasi Peak (dBμV/m)	Azimuth	Polarity (H/V)	Factors (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2.02	40.55	36	H	-54.15	69.5	-28.95
14.25	35.22	205	H	-52.01	69.5	-34.28
3.68	42.74	352	V	-53.27	69.5	-26.76
17.35	36.24	15	V	-51.25	69.5	-33.26

Part 15 Section 15.31(f)(2) (9kHz-30MHz)

Limit at 3m=Limit at 300m-40\*log(300(m)/3(m))

Limit at 3m=Limit at 30m-40\*log(30(m)/3(m))

### Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2410	80.43	89.32	-7.43	73.00	81.89	94.00	114.00	21.00	32.11	Vertical
2410	79.46	87.40	-7.43	72.03	79.97	94.00	114.00	21.97	34.03	Horizontal
2442	75.32	84.96	-7.35	67.97	77.61	94.00	114.00	26.03	36.39	Vertical
2442	80.00	88.40	-7.35	72.65	81.05	94.00	114.00	21.35	32.95	Horizontal
2473	76.10	84.47	-7.36	68.74	77.11	94.00	114.00	25.26	36.89	Vertical
2473	75.04	83.19	-7.36	67.68	75.83	94.00	114.00	26.32	38.17	Horizontal

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 18-25GHz are not reported, because the test values lower than the limits of 20dB.

5. The average measurement was not performed when peak measured data under the limit of average detection.

6. The 18-25GHz emissions are not reported, because the levels are too low against the limit

Job No.: star2015 #1155

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2410MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Horizontal

Power Source: DC 4.5V

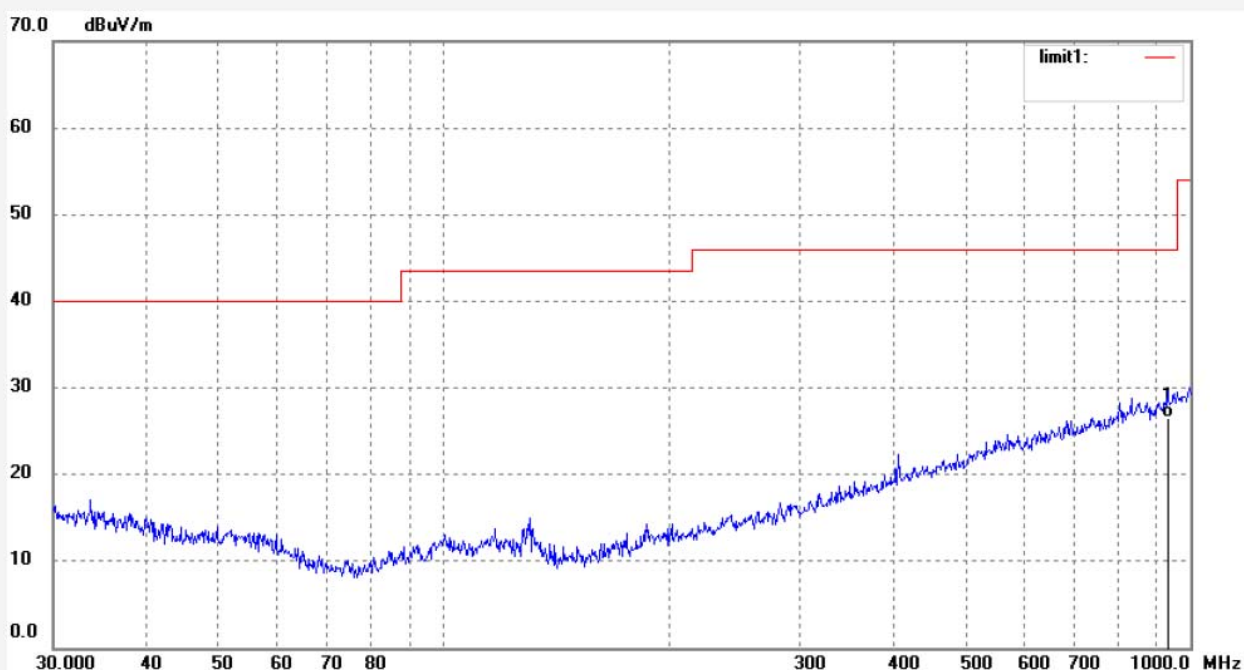
Date: 2016-5-24

Time: 1:11:17

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	932.2715	24.60	1.85	26.45	46.00	-19.55	QP			



Job No.: star2015 #1156

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2410MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Vertical

Power Source: DC 4.5V

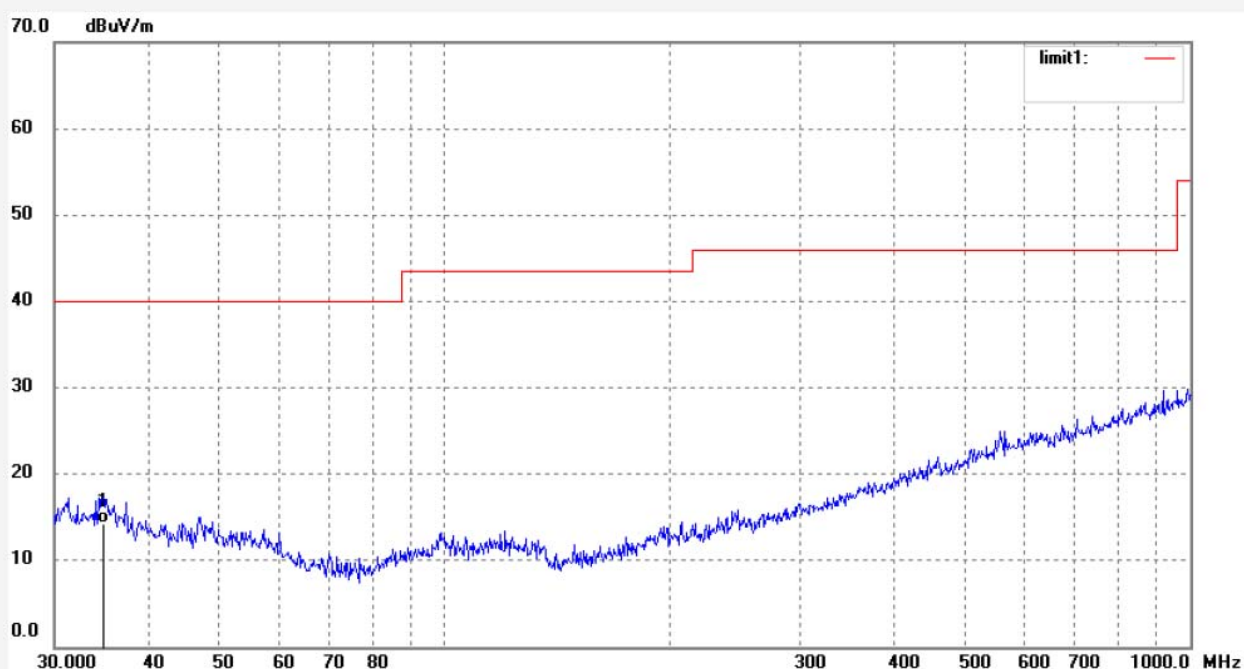
Date: 2016-5-24

Time: 1:12:01

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.8823	24.57	-10.38	14.19	40.00	-25.81	QP			





# ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1158

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2442MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Horizontal

Power Source: DC 4.5V

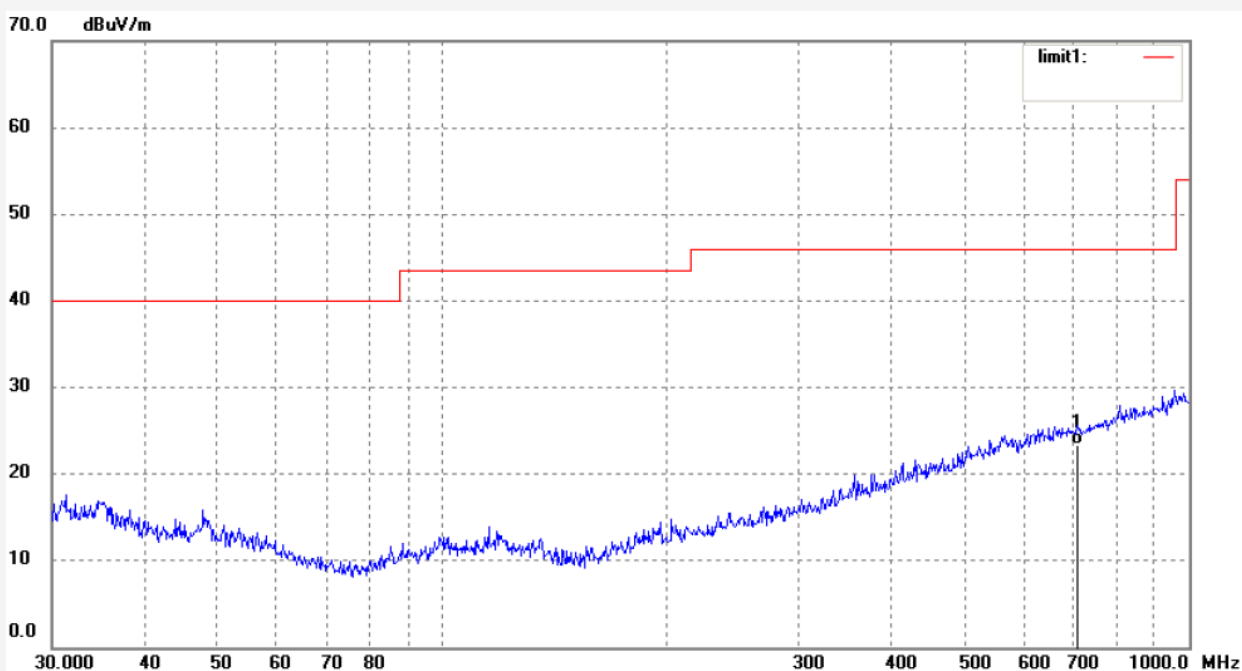
Date: 2016-5-24

Time: 1:14:29

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	709.1823	25.01	-1.61	23.40	46.00	-22.60	QP			



# ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1157

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2442MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Vertical

Power Source: DC 4.5V

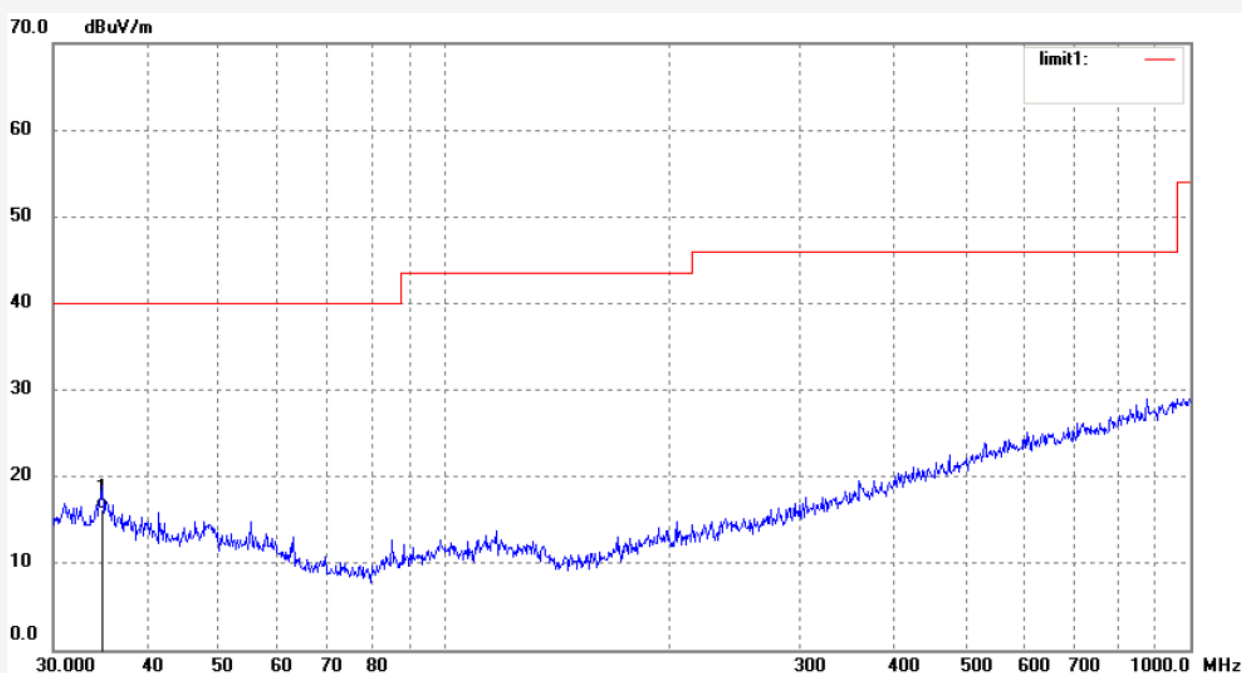
Date: 2016-5-24

Time: 1:13:27

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.8823	26.60	-10.38	16.22	40.00	-23.78	QP			

Job No.: star2015 #1159

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2473MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Horizontal

Power Source: DC 4.5V

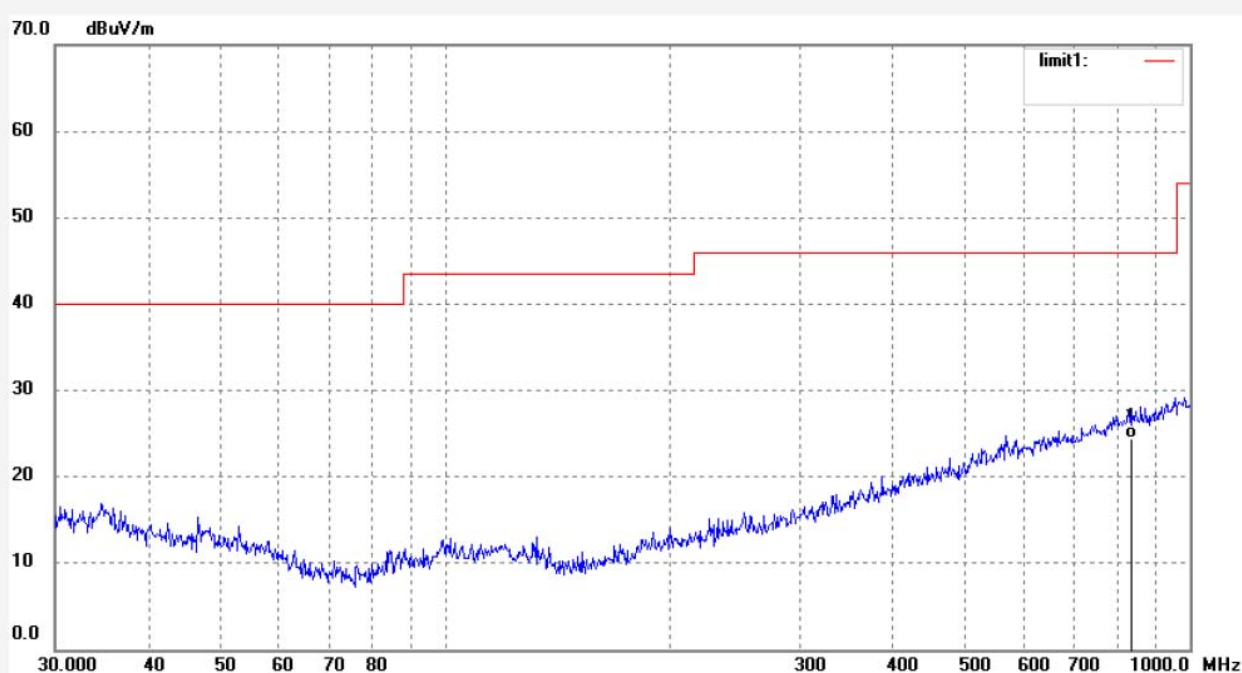
Date: 2016-5-24

Time: 1:14:58

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	836.2443	23.73	0.62	24.35	46.00	-21.65	QP			



# ACCURATE TECHNOLOGY CO., LTD.

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

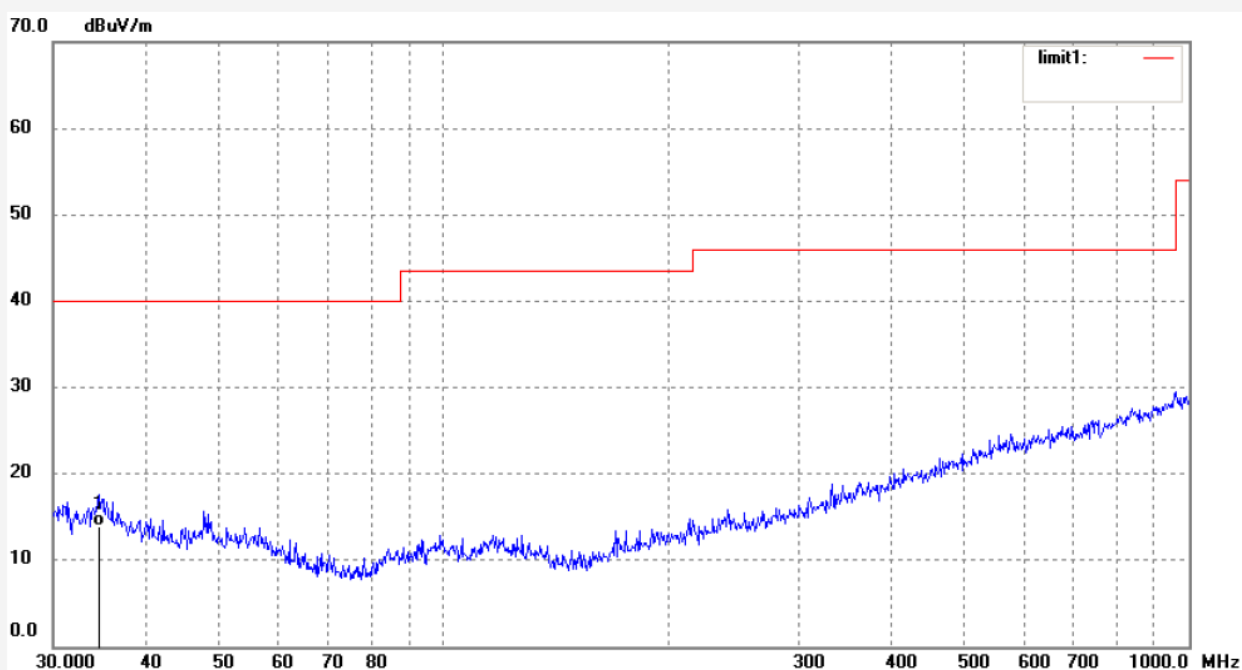
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1160	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 2016-5-24
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 1:16:17
EUT: Ai Camera Drone	Engineer Signature:
Mode: TX 2473MHz	Distance: 3m
Model: TX-1027	
Manufacturer: China Industries Ltd T/A Wow! Stuff	

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.6385	24.27	-10.32	13.95	40.00	-26.05	QP			



## ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1162

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2410MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Horizontal

Power Source: DC 4.5V

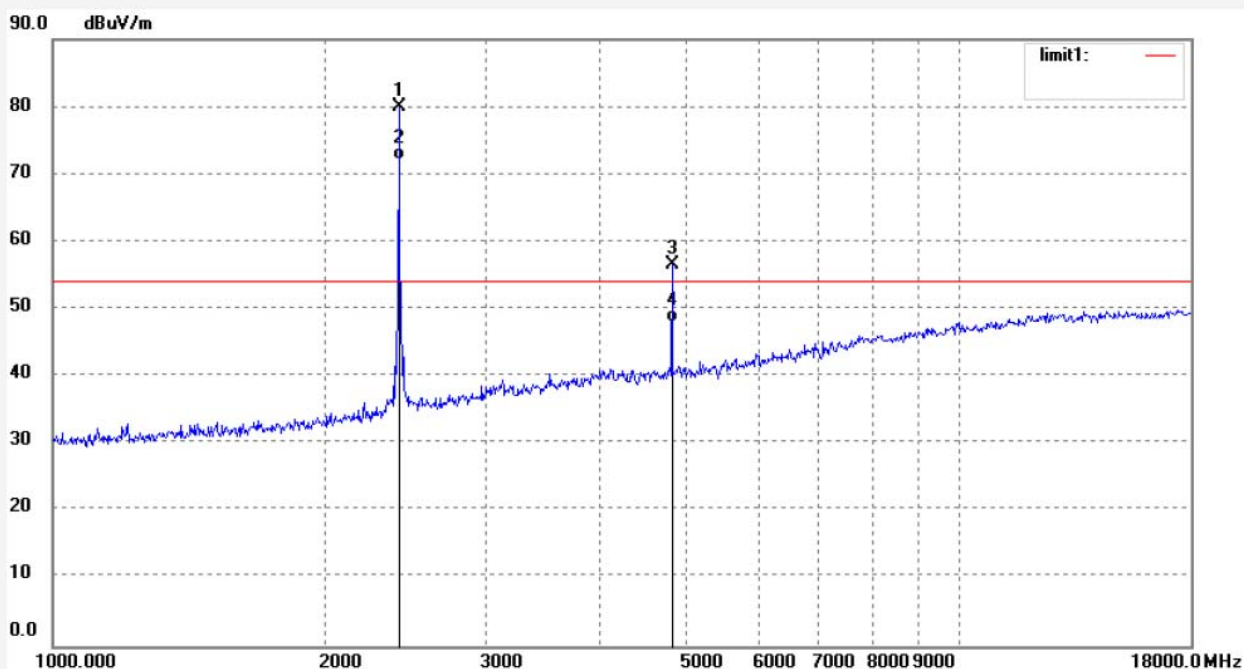
Date: 2016-5-24

Time: 1:21:21

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2410.703	87.40	-7.43	79.97			peak			
2	2410.703	79.46	-7.43	72.03			peak			
3	4820.016	56.80	-0.21	56.59	74.00	-22.59	peak			
4	4820.016	48.35	-0.21	48.14	54.00	-5.86	peak			

Note: Average measurement with peak detection at No.2&4



Job No.: star2015 #1161

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2410MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Vertical

Power Source: DC 4.5V

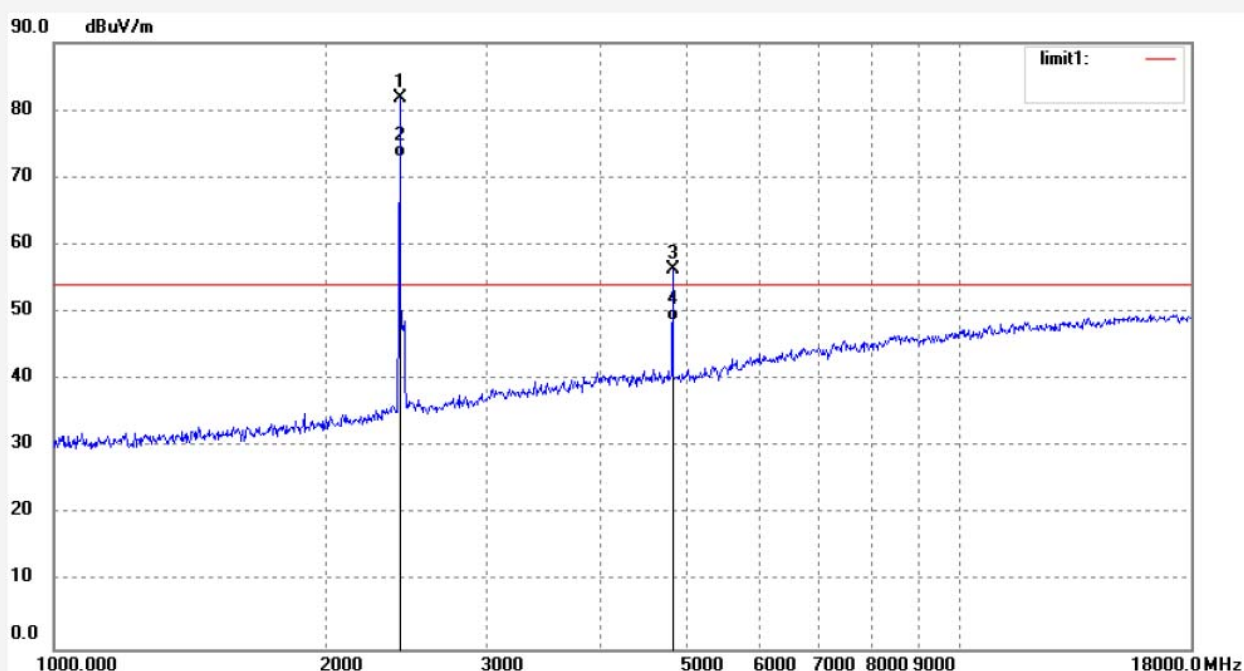
Date: 2016-5-24

Time: 1:19:56

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2410.703	89.32	-7.43	81.89			peak			
2	2410.703	80.43	-7.43	73.00			peak			
3	4820.016	56.65	-0.21	56.44	74.00	-22.44	peak			
4	4820.016	48.99	-0.21	48.78	54.00	-5.22	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: star2015 #1163

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2442MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Horizontal

Power Source: DC 4.5V

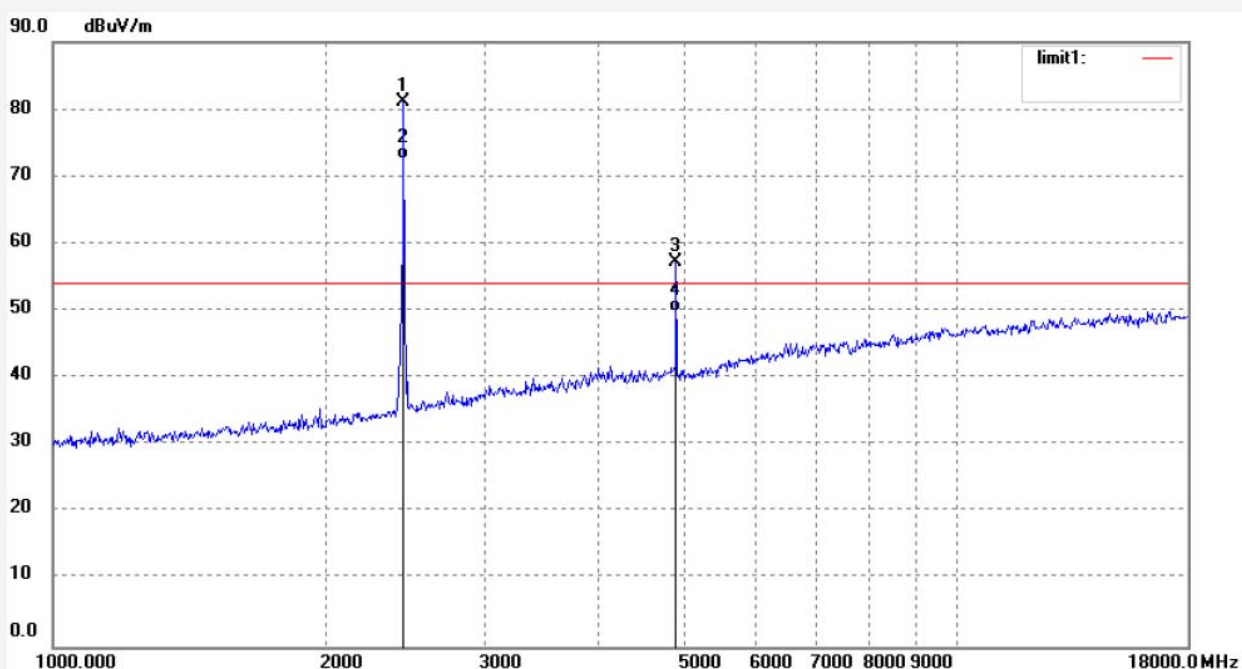
Date: 2016-5-24

Time: 1:23:32

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2442.751	88.40	-7.35	81.05			peak			
2	2442.751	80.00	-7.35	72.65			peak			
3	4884.151	57.18	0.15	57.33	74.00	-23.33	peak			
4	4884.151	49.78	0.15	49.93	54.00	-4.07	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: star2015 #1164

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2442MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Vertical

Power Source: DC 4.5V

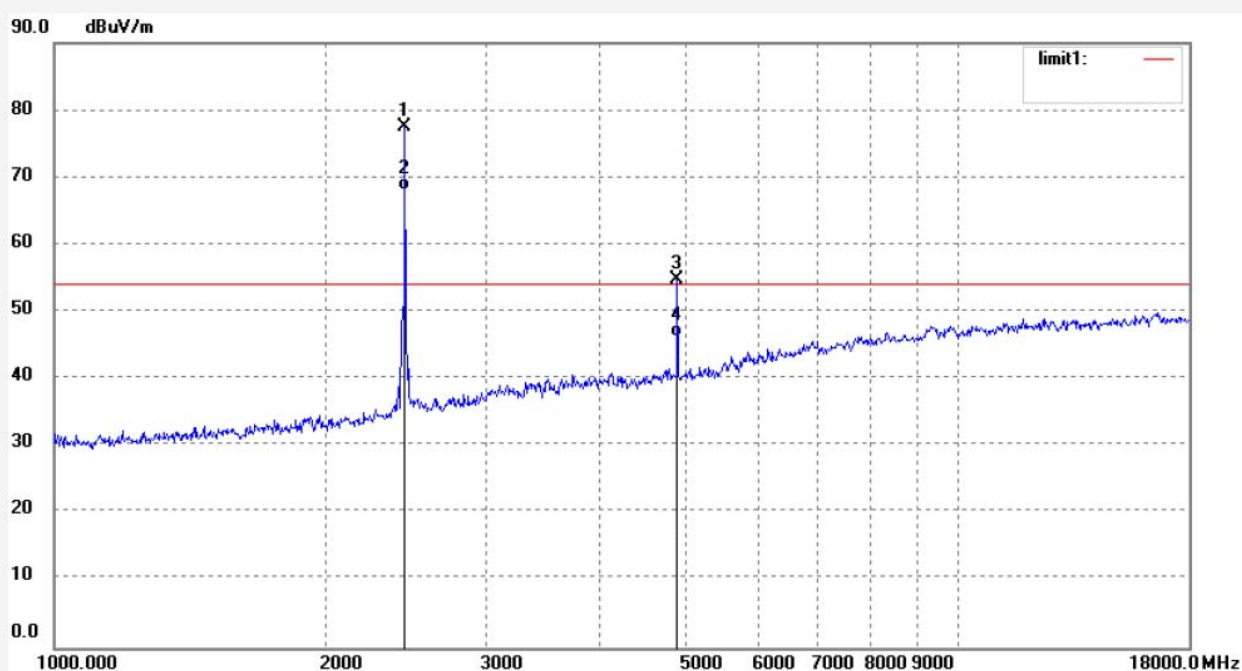
Date: 2016-5-24

Time: 1:24:53

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2442.751	84.96	-7.35	77.61			peak			
2	2442.751	75.32	-7.35	67.97			peak			
3	4884.151	54.62	0.15	54.77	74.00	-20.77	peak			
4	4884.151	46.16	0.15	46.31	54.00	-7.69	peak			

Note: Average measurement with peak detection at No.2&4



Job No.: star2015 #1166

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2473MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Horizontal

Power Source: DC 4.5V

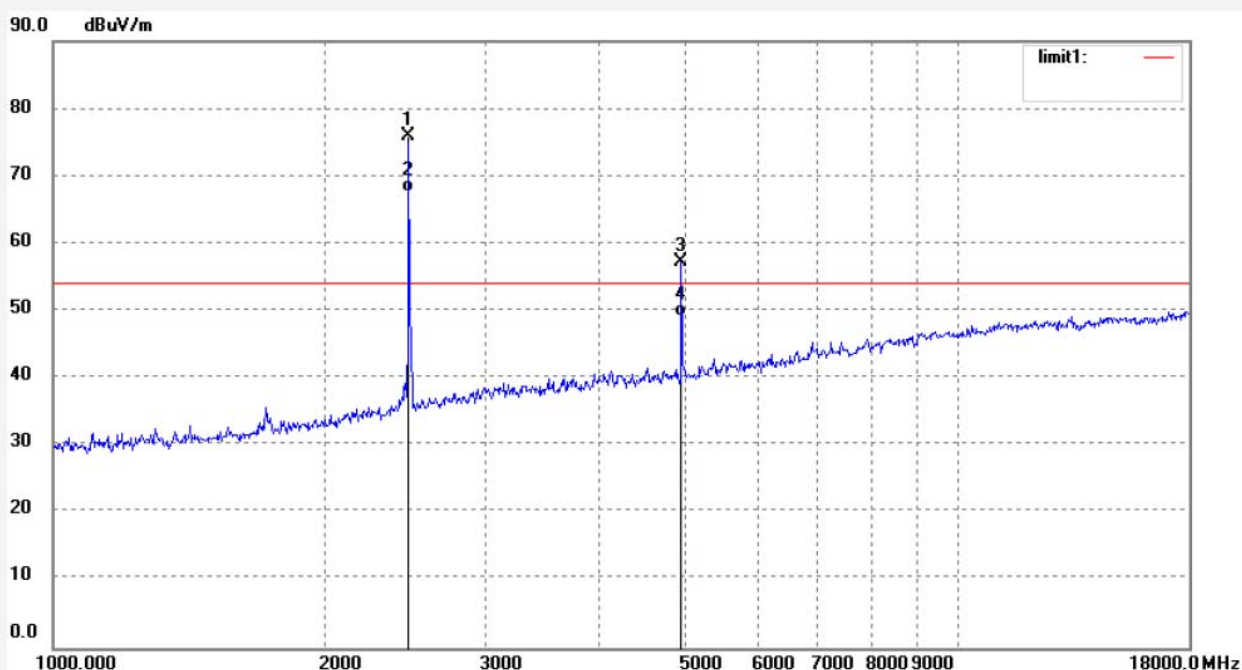
Date: 2016-5-24

Time: 1:47:41

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.157	83.19	-7.36	75.83			peak			
2	2473.157	75.04	-7.36	67.68			peak			
3	4946.993	56.87	0.45	57.32	74.00	-23.32	peak			
4	4946.993	48.62	0.45	49.07	54.00	-4.93	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: star2015 #1165

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Ai Camera Drone

Mode: TX 2473MHz

Model: TX-1027

Manufacturer: China Industries Ltd T/A Wow! Stuff

Polarization: Vertical

Power Source: DC 4.5V

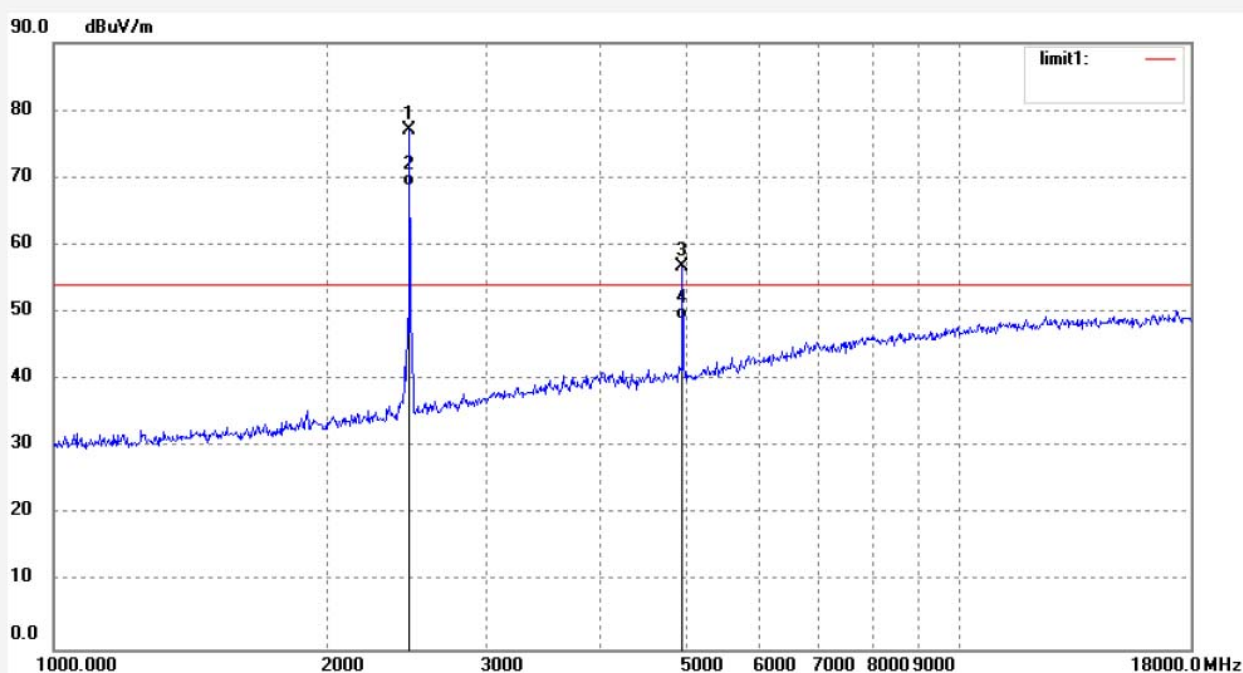
Date: 2016-5-24

Time: 1:27:00

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20160957



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.157	84.47	-7.36	77.11			peak			
2	2473.157	76.10	-7.36	68.74			peak			
3	4946.966	56.42	0.46	56.88	74.00	-22.88	peak			
4	4946.966	48.44	0.46	48.90	54.00	-5.10	peak			

Note: Average measurement with peak detection at No.2&4

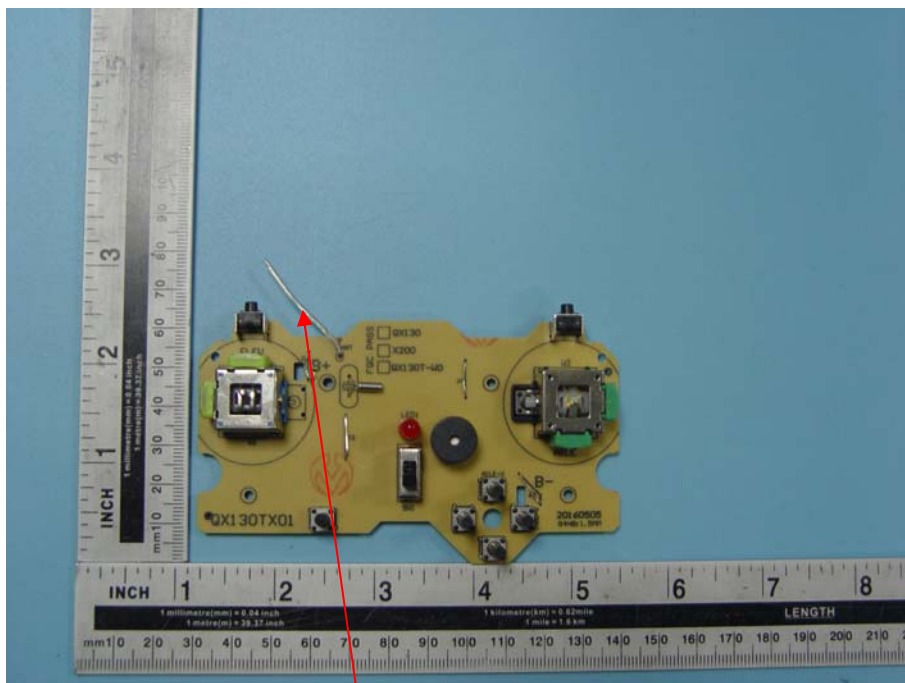
## 8. ANTENNA REQUIREMENT

### 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.



Antenna