

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of

PURE TOY LIMITED

Aerial Acrobat Video Drone
Model No.: 205982-01

FCC ID: 2AN6G-S25

Prepared for : PURE TOY LIMITED
Address : Chenghua Toys Industrial Zone, Chenghai, Shantou,
Guangdong, 515800, China

Prepared by : Shenzhen Accurate Technology Co., Ltd.
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Report Number : ATE20171777
Date of Test : Sep. 7, 2017
Date of Report : Sep. 11, 2017

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Test Report Certification

Applicant : PURE TOY LIMITED
Address : Chenghua Toys Industrial Zone, Chenghai, Shantou, Guangdong, 515800, China
Manufacturer : PURE TOY LIMITED
Address : Chenghua Toys Industrial Zone, Chenghai, Shantou, Guangdong, 515800, China
Product : Aerial Acrobat Video Drone
Model No. : 205982-01
(Please refer to the detailed description about coverage models on page 4)
Trade name : N/A

Measurement Procedure Used:

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

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

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

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

Date of Test : Sep. 7, 2017

Date of Report : Sep. 11, 2017

Prepared by :

Star Yang
(Star Yang, Engineer)


Approved & Authorized Signer :


(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

Product	:	Aerial Acrobat Video Drone
Main test model Number	:	205982-01
List model Number	:	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S27, S28, S29, S30
Frequency Range	:	2447MHz-2477MHz
Channel frequency	:	2447MHz, 2457MHz, 2467MHz, 2477MHz
Number of Channels	:	4
Modulation Type	:	GFSK
Type of Antenna	:	Integral Antenna
Max antenna gain	:	1dBi
Power Supply	:	DC 6V (Powered by battery)

1.2.Special Accessory and Auxiliary Equipment

N/A

1.3. Description of Test Facility

EMC Lab	:	Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358 Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2 Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193 Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	:	Shenzhen Accurate Technology Co., Ltd.
Site Location	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 07, 2017	Jan. 06, 2018
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 07, 2017	Jan. 06, 2018
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 07, 2017	Jan. 06, 2018
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 07, 2017	Jan. 06, 2018
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 13, 2017	Jan. 12, 2018
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 13, 2017	Jan. 12, 2018
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 13, 2017	Jan. 12, 2018
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 13, 2017	Jan. 12, 2018
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 07, 2017	Jan. 06, 2018
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 07, 2017	Jan. 06, 2018
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 07, 2017	Jan. 06, 2018
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 07, 2017	Jan. 06, 2018

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

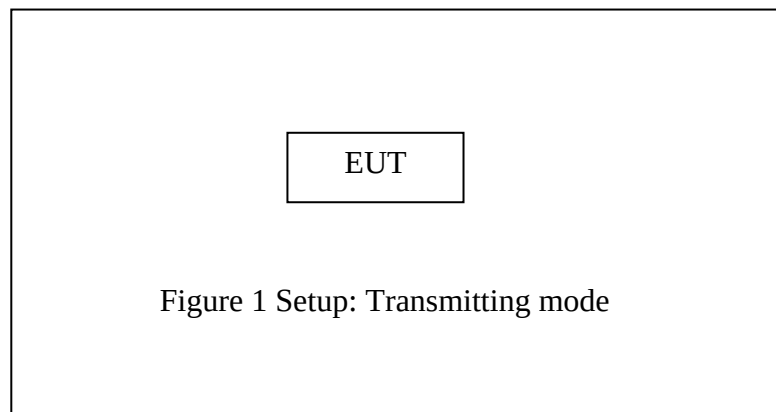
The mode is used: **Transmitting mode**

Low Channel: 2447MHz

Middle Channel: 2467MHz

High Channel: 2477MHz

3.2.Configuration and peripherals



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

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 2447-2477 MHz. We select 2447MHz, 2467MHz, and 2477MHz TX frequency to transmit.

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.

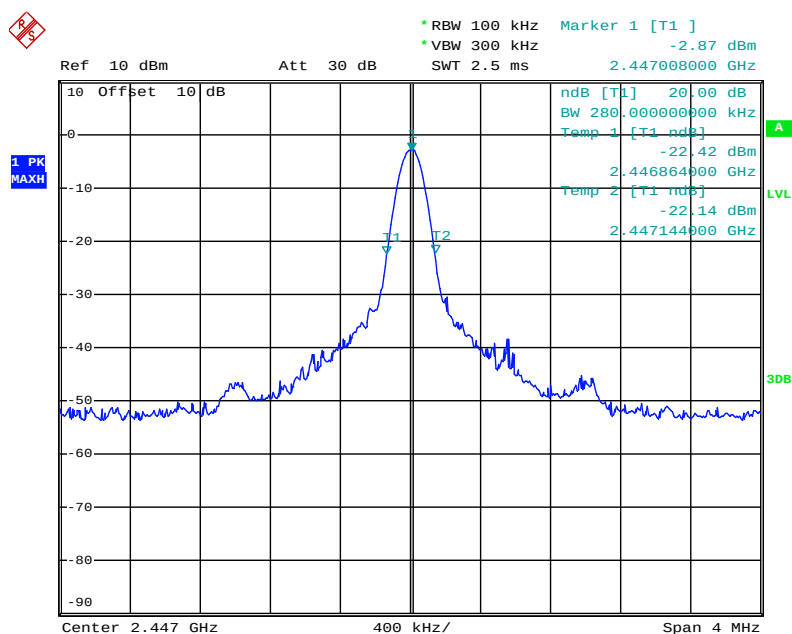
5.4.4. Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

5.5. Test Result

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2447	0.28
Middle	2467	0.28
High	2477	0.28

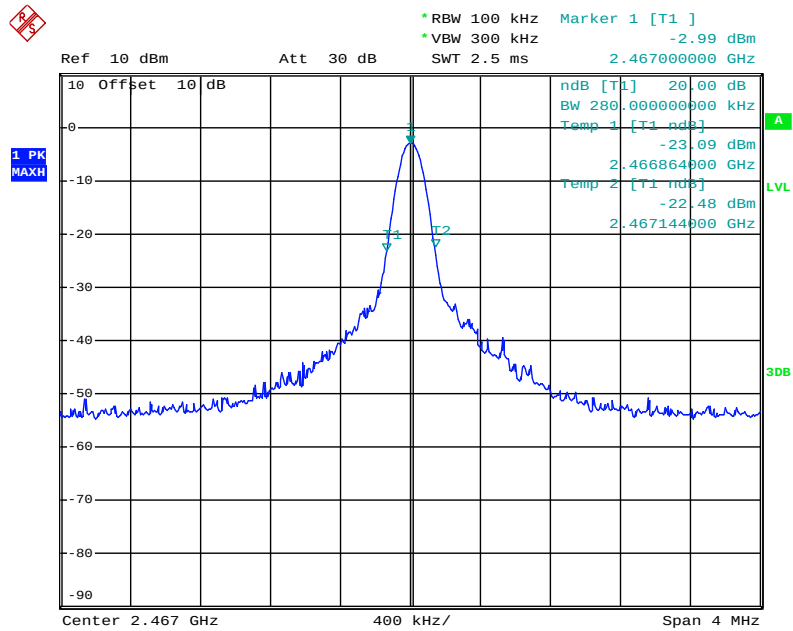
The spectrum analyzer plots are attached as below.

Low channel



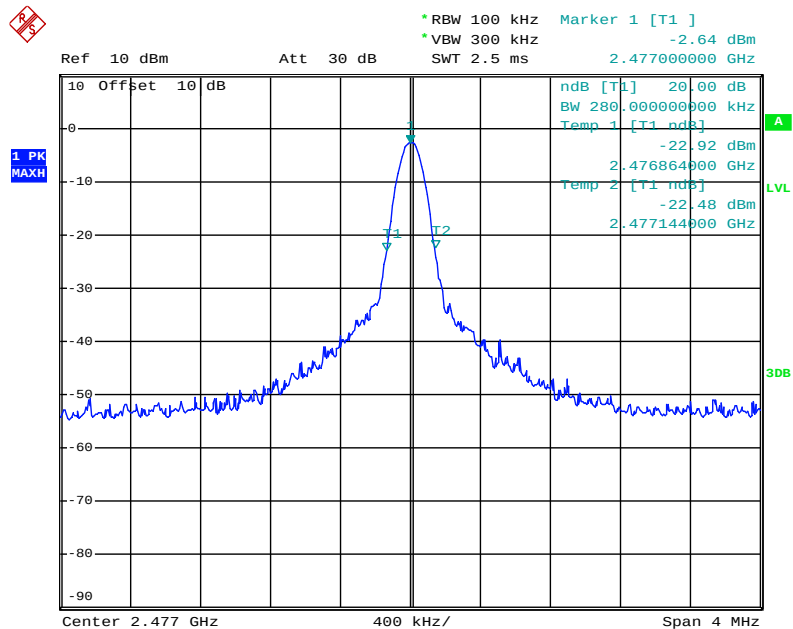
Date: 7.SEP.2017 15:53:52

Middle channel



Date: 7.SEP.2017 15:58:23

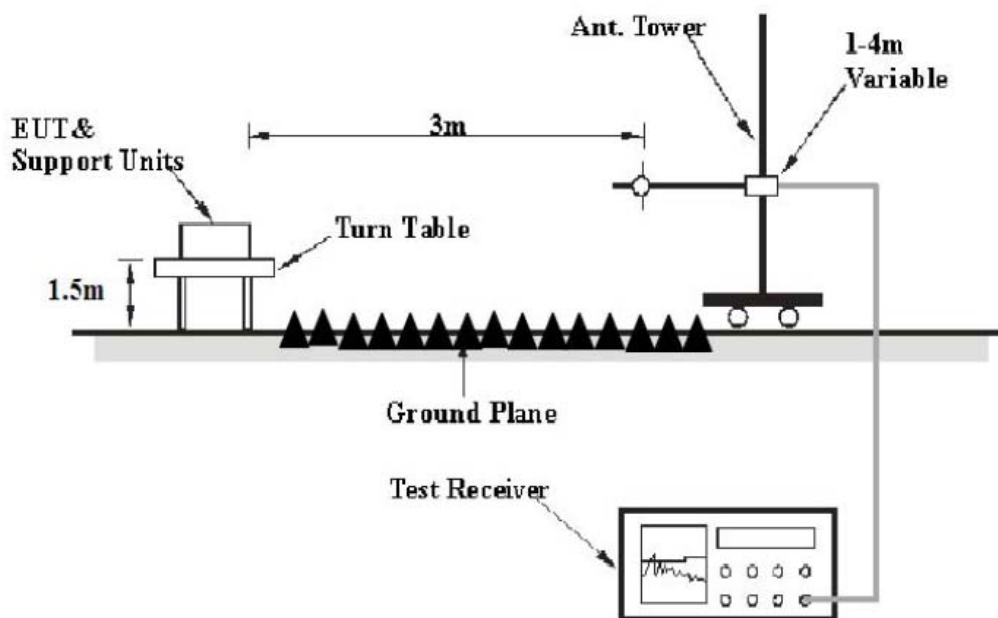
High channel



Date: 7.SEP.2017 15:57:23

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. Operating Condition of EUT

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

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2447-2477 MHz. We select 2447MHz, 2477MHz TX frequency to transmit.

6.5. Test Procedure

Radiate Band Edge:

6.5.1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

6.5.2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

6.5.3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

6.5.4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

6.5.5. The band edges was measured and recorded.

6.6. Test Result

Pass

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

2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

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

The spectral diagrams are attached as below.

Job No.: DING11 #1037

Standard: FCC PK

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2447MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Vertical

Power Source: DC 6V

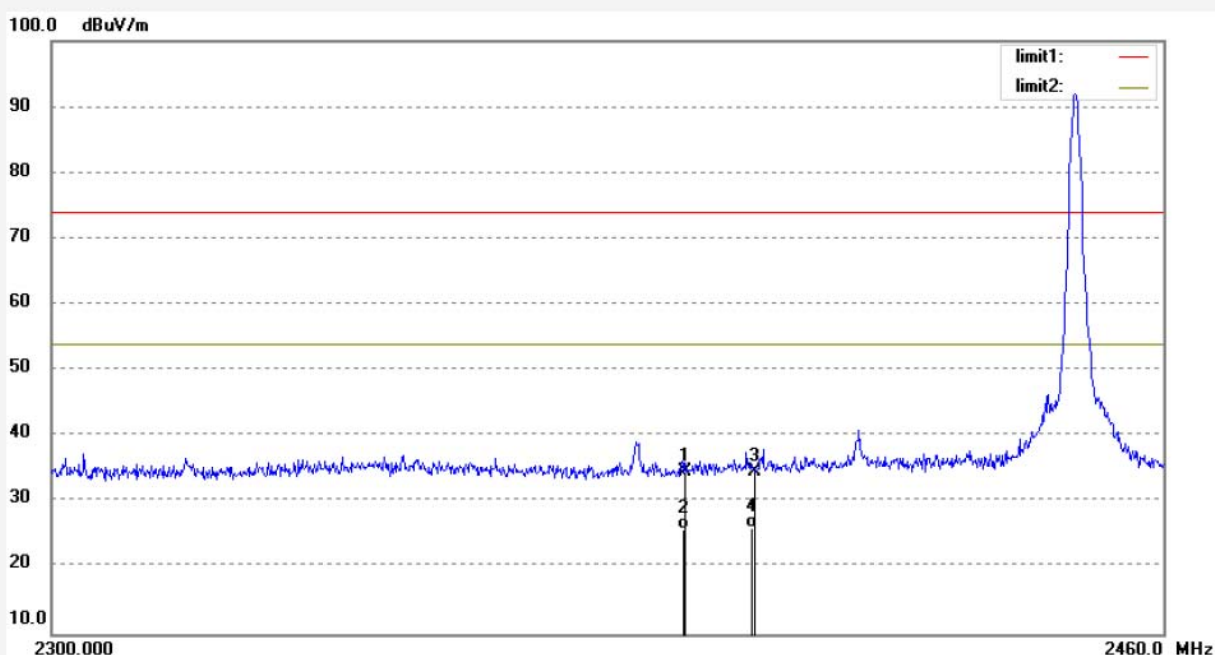
Date: 17/09/07/

Time: 14/40/11

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	40.43	-5.89	34.54	74.00	-39.46	peak	150	267	
2	2390.000	31.79	-5.89	25.90	54.00	-28.10	AVG	150	211	
3	2400.000	40.46	-5.80	34.66	74.00	-39.34	peak	150	19	
4	2400.000	31.85	-5.80	26.05	54.00	-27.95	AVG	150	35	

Job No.: DING11 #1038

Standard: FCC PK

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2447MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Horizontal

Power Source: DC 6V

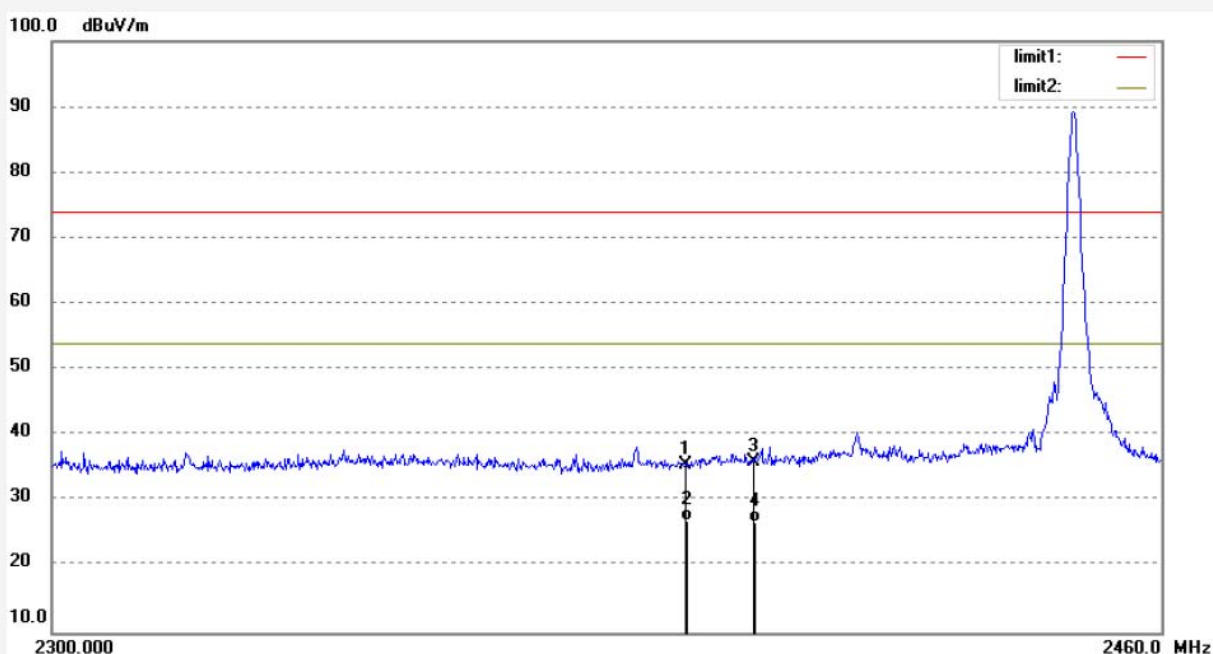
Date: 17/09/07/

Time: 14/43/23

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.45	-5.89	35.56	74.00	-38.44	peak	300	175	
2	2390.000	32.98	-5.89	27.09	54.00	-26.91	AVG	300	214	
3	2400.000	41.78	-5.80	35.98	74.00	-38.02	peak	300	319	
4	2400.000	32.64	-5.80	26.84	54.00	-27.16	AVG	300	303	



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Job No.: DING11 #1035

Standard: FCC PK

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2477MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Horizontal

Power Source: DC 6V

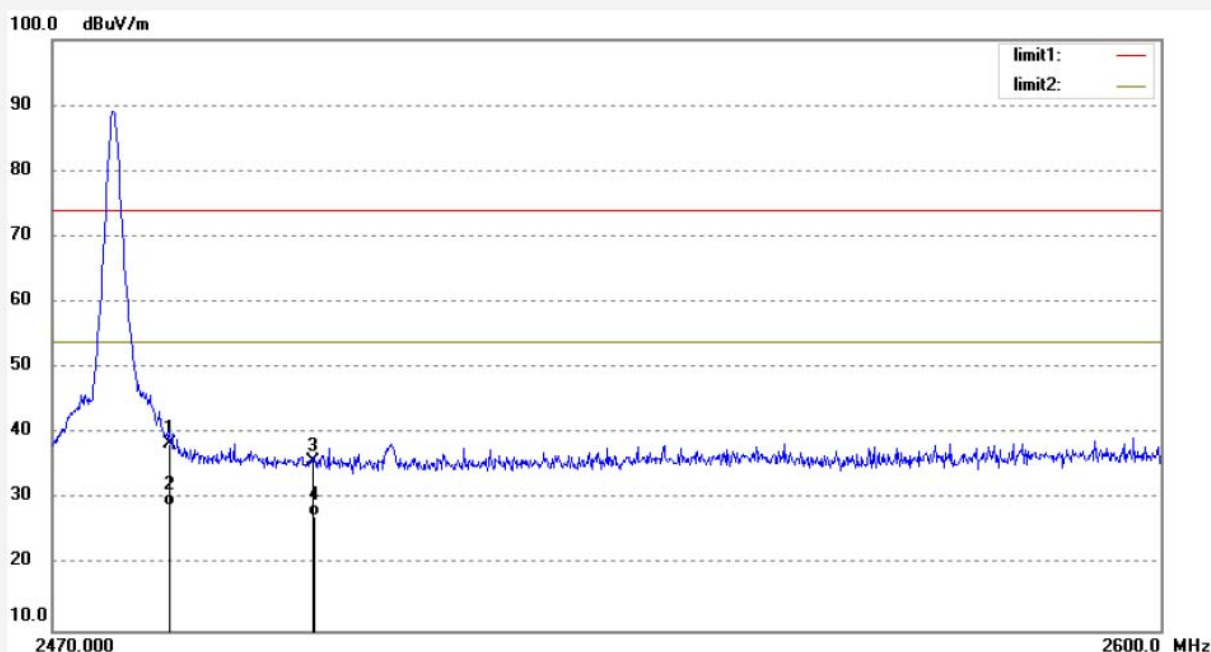
Date: 17/09/07/

Time: 14/35/25

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



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	43.89	-5.51	38.38	74.00	-35.62	peak	300	177	
2	2483.500	34.52	-5.51	29.01	54.00	-24.99	AVG	300	168	
3	2500.000	41.37	-5.50	35.87	74.00	-38.13	peak	300	206	
4	2500.000	32.84	-5.50	27.34	54.00	-26.66	AVG	300	199	



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Job No.: DING11 #1036

Standard: FCC PK

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2477MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Vertical

Power Source: DC 6V

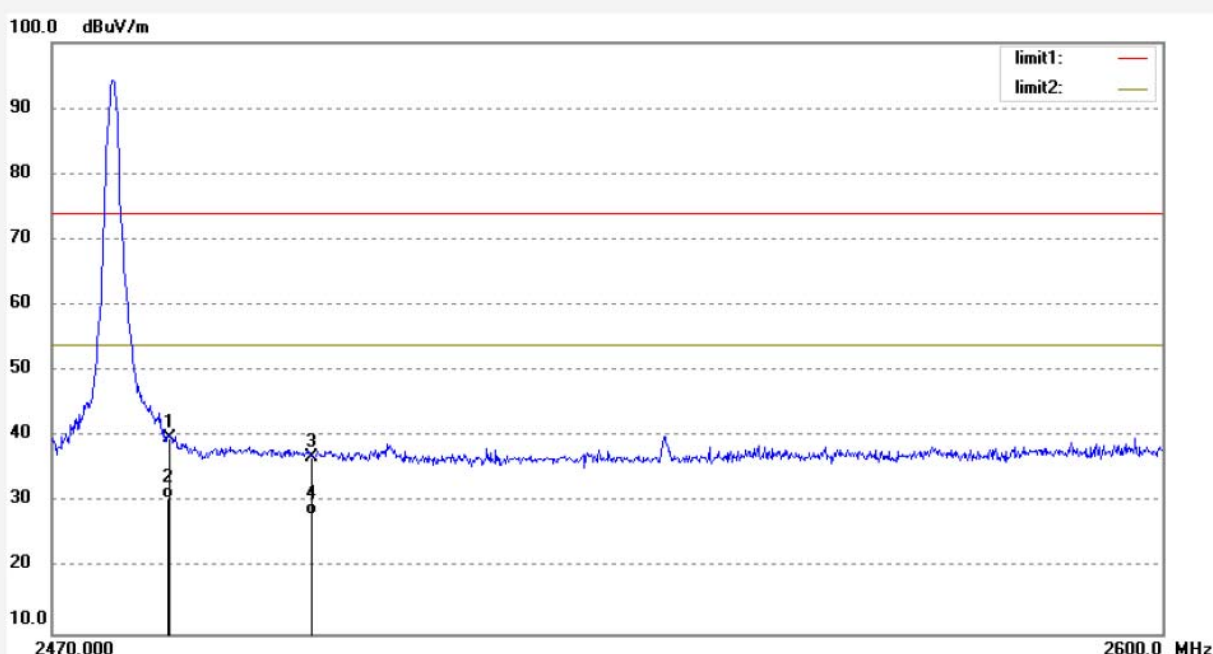
Date: 17/09/07/

Time: 14/38/04

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777

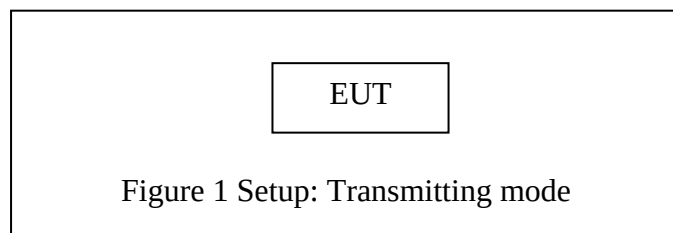


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	45.41	-5.51	39.90	74.00	-34.10	peak	150	200	
2	2483.500	36.17	-5.51	30.66	54.00	-23.34	AVG	150	231	
3	2500.000	42.49	-5.50	36.99	74.00	-37.01	peak	150	69	
4	2500.000	33.58	-5.50	28.08	54.00	-25.92	AVG	150	73	

7. RADIATED SPURIOUS EMISSION TEST

7.1. Block Diagram of Test Setup

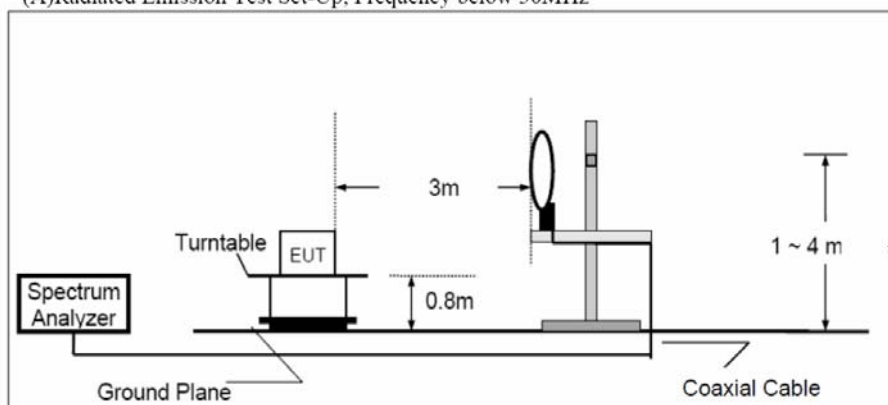
7.1.1. Block diagram of connection between the EUT and peripherals



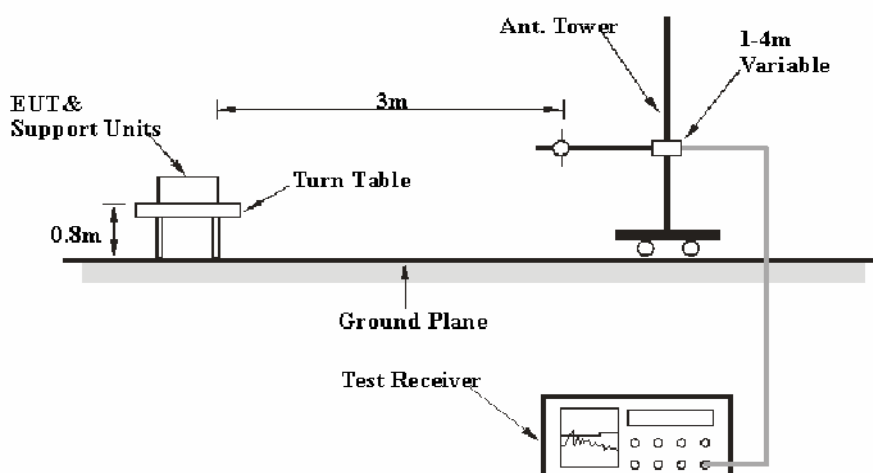
(EUT: Aerial Acrobat Video Drone)

7.1.2. Semi-Anechoic Chamber Test Setup Diagram

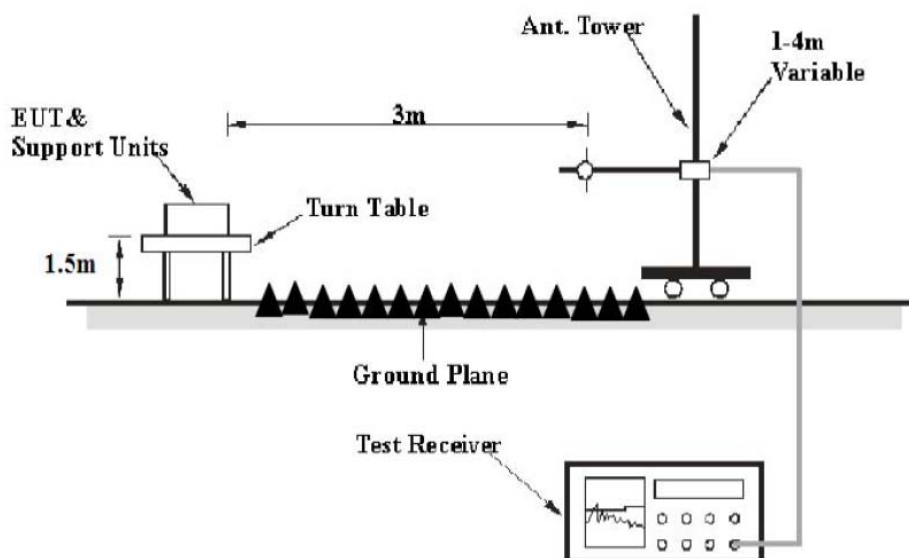
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(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.Restricted bands of operation

7.3.1.FCC Part 15.205 Restricted bands of operation

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

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

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

²Above 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 Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

7.4.Configuration of EUT on Measurement

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

7.5. Operating Condition of EUT

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

7.5.2. Turn on the power of all equipment.

7.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2447-2477 MHz. We select 2447MHz, 2467MHz, and 2477MHz TX frequency to transmit.

7.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground (Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground (Above 1GHz). 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 bi-log 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 EUT location 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 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

7.7.Data Sample

Frequency(MHz)	Reading (dB μ v)	Factor (dB/m)	Result (dB μ v/m)	Limit (dB μ v/m)	Margin (dB)	Remark
X.XX	30.21	-17.87	12.34	40.00	-27.66	QP

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ v) = Uncorrected Analyzer/Receiver reading

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

Result(dB μ v/m) = Reading(dB μ v) + Factor(dB/m)

Limit (dB μ v/m) = Limit stated in standard

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

QP = Quasi-peak Reading

Calculation Formula:

Margin(dB) = Result (dB μ V/m)–Limit(dB μ V/m)

Result(dB μ V/m)= Reading(dB μ V)+ Factor(dB/m)

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

7.8.The Field Strength of Radiation Emission Measurement Results

PASS.

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

2. *: Denotes restricted band of operation.

3. The EUT is tested radiation emission at Low, Middle, High channel in three axes. The worst emissions are reported in all channels.

4. The test frequency is from 30MHz to 25GHz, The 18-25GHz emissions are not reported, because the levels are too low against the limit.



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: DING11 #1023

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2447MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Horizontal

Power Source: DC 6V

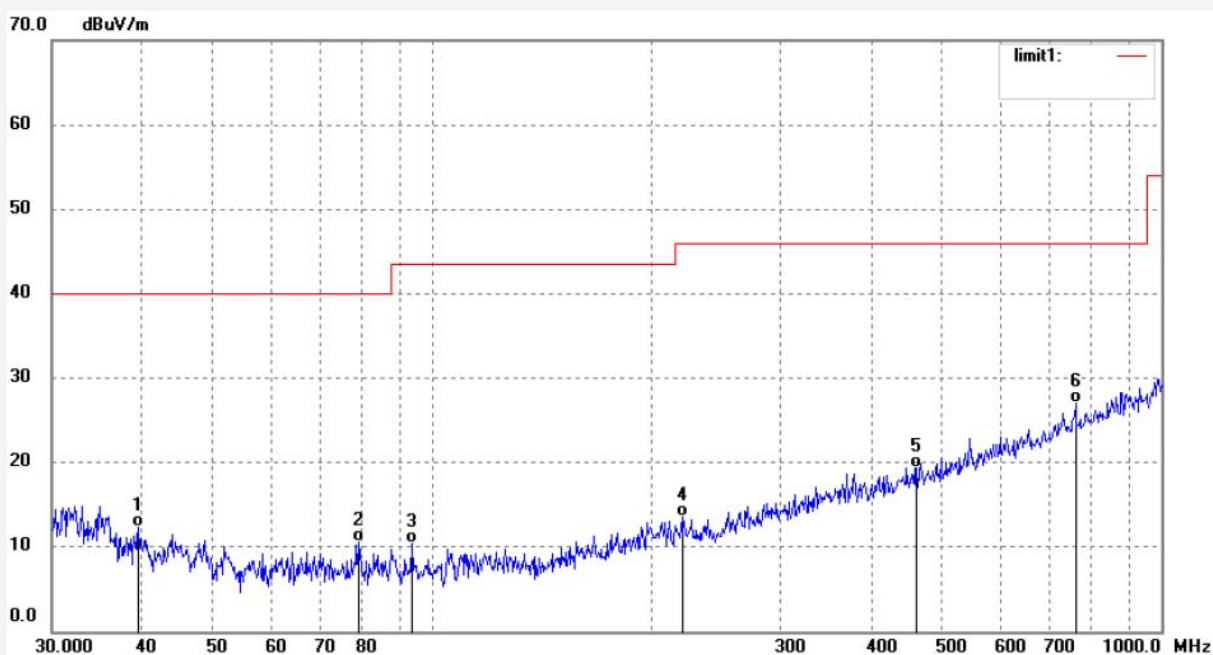
Date: 17/09/07/

Time: 13/45/19

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.4588	30.21	-17.87	12.34	40.00	-27.66	QP	100	105	
2	79.1185	32.65	-22.06	10.59	40.00	-29.41	QP	100	98	
3	93.6532	32.36	-21.92	10.44	43.50	-33.06	QP	100	193	
4	219.9500	32.00	-18.40	13.60	46.00	-32.40	QP	100	236	
5	461.6313	30.90	-11.51	19.39	46.00	-26.61	QP	100	305	
6	762.9628	31.88	-4.86	27.02	46.00	-18.98	QP	100	282	



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: DING11 #1024

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2447MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Vertical

Power Source: DC 6V

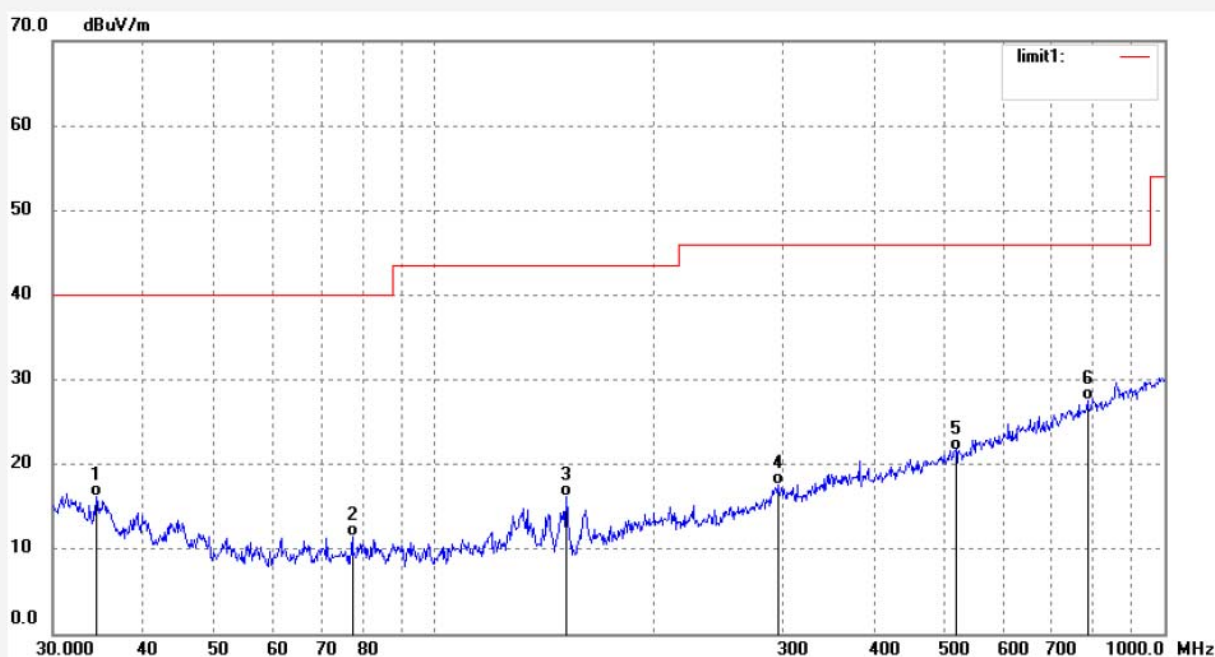
Date: 17/09/07/

Time: 13/47/56

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	31.94	-15.80	16.14	40.00	-23.86	QP	100	100	
2	77.1963	33.60	-22.17	11.43	40.00	-28.57	QP	100	67	
3	151.5567	38.33	-22.22	16.11	43.50	-27.39	QP	100	168	
4	295.4623	33.53	-15.89	17.64	46.00	-28.36	QP	100	209	
5	516.5651	32.07	-10.50	21.57	46.00	-24.43	QP	100	291	
6	784.7129	32.05	-4.45	27.60	46.00	-18.40	QP	100	144	



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Site: 1# Chamber

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Job No.: DING11 #1026

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2467MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Horizontal

Power Source: DC 6V

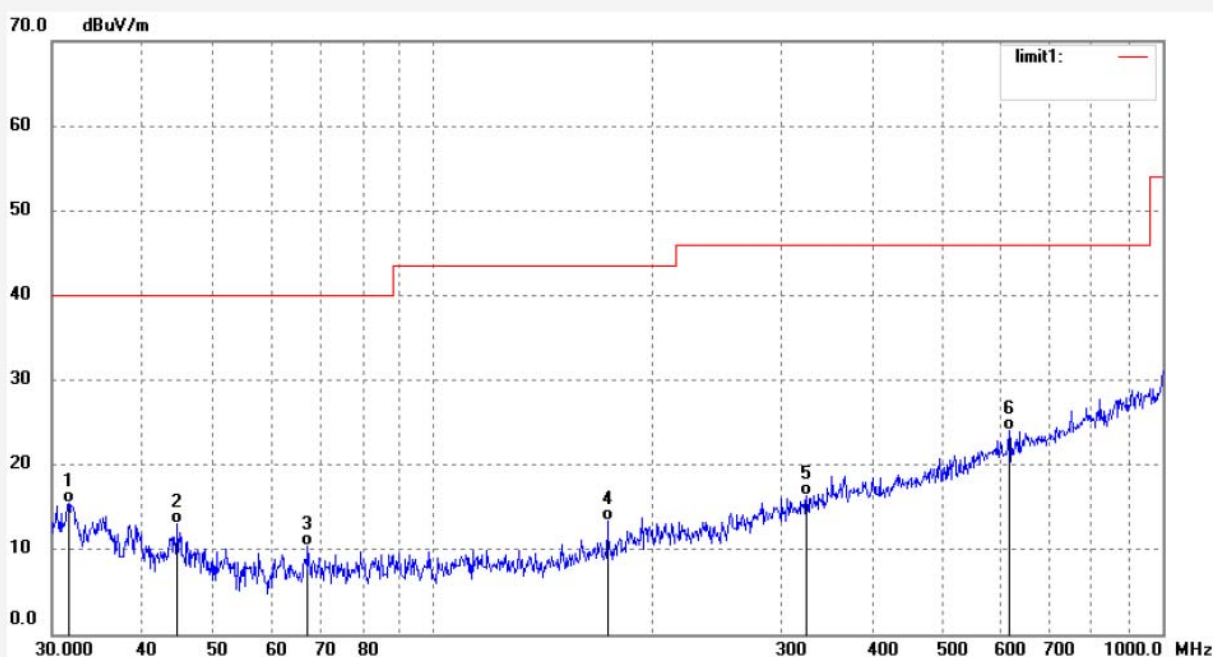
Date: 17/09/07/

Time: 13/53/14

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.6235	30.66	-15.10	15.56	40.00	-24.44	QP	100	199	
2	44.6222	31.82	-18.85	12.97	40.00	-27.03	QP	100	142	
3	67.3109	32.32	-21.99	10.33	40.00	-29.67	QP	100	67	
4	173.2051	34.00	-20.62	13.38	43.50	-30.12	QP	100	107	
5	324.8645	31.30	-14.90	16.40	46.00	-29.60	QP	100	300	
6	615.7743	32.06	-8.06	24.00	46.00	-22.00	QP	100	203	



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Job No.: DING11 #1025

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2467MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Vertical

Power Source: DC 6V

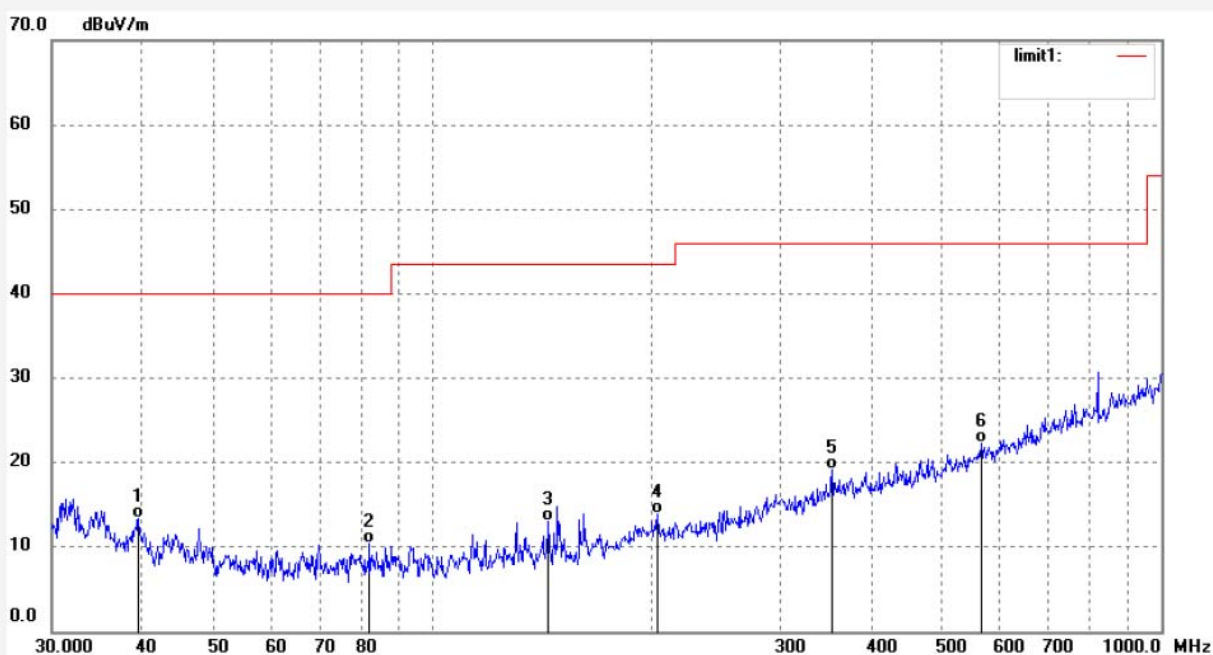
Date: 17/09/07/

Time: 13/50/23

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.4587	31.18	-17.87	13.31	40.00	-26.69	QP	100	29	
2	81.9477	32.36	-21.98	10.38	40.00	-29.62	QP	100	141	
3	144.2820	35.33	-22.36	12.97	43.50	-30.53	QP	100	247	
4	203.5886	32.46	-18.54	13.92	43.50	-29.58	QP	100	138	
5	353.4471	32.79	-13.68	19.11	46.00	-26.89	QP	100	202	
6	565.9776	31.67	-9.29	22.38	46.00	-23.62	QP	100	109	



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Job No.: DING11 #1027

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2477MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Horizontal

Power Source: DC 6V

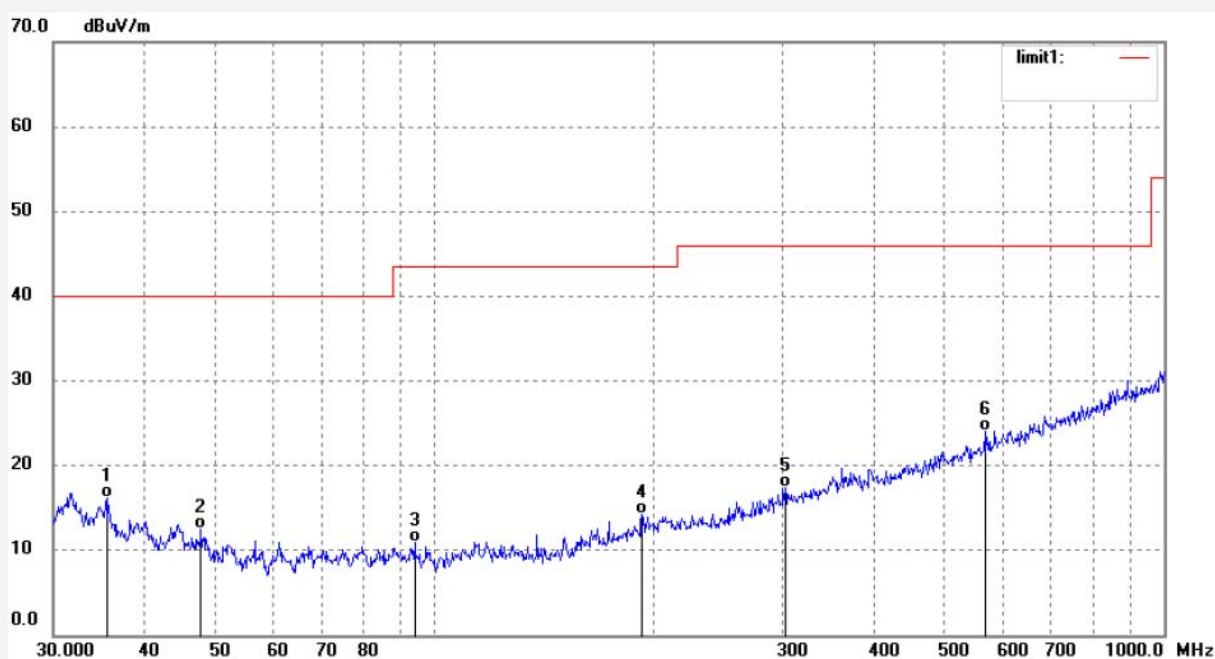
Date: 17/09/07/

Time: 13/56/25

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.5112	32.33	-16.16	16.17	40.00	-23.83	QP	100	88	
2	47.8706	32.42	-19.98	12.44	40.00	-27.56	QP	100	40	
3	93.9829	32.84	-21.92	10.92	43.50	-32.58	QP	100	39	
4	192.4590	33.49	-19.19	14.30	43.50	-29.20	QP	100	125	
5	302.8192	32.98	-15.63	17.35	46.00	-28.65	QP	100	233	
6	567.9696	33.22	-9.22	24.00	46.00	-22.00	QP	100	198	



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Job No.: DING11 #1028

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2477MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Vertical

Power Source: DC 6V

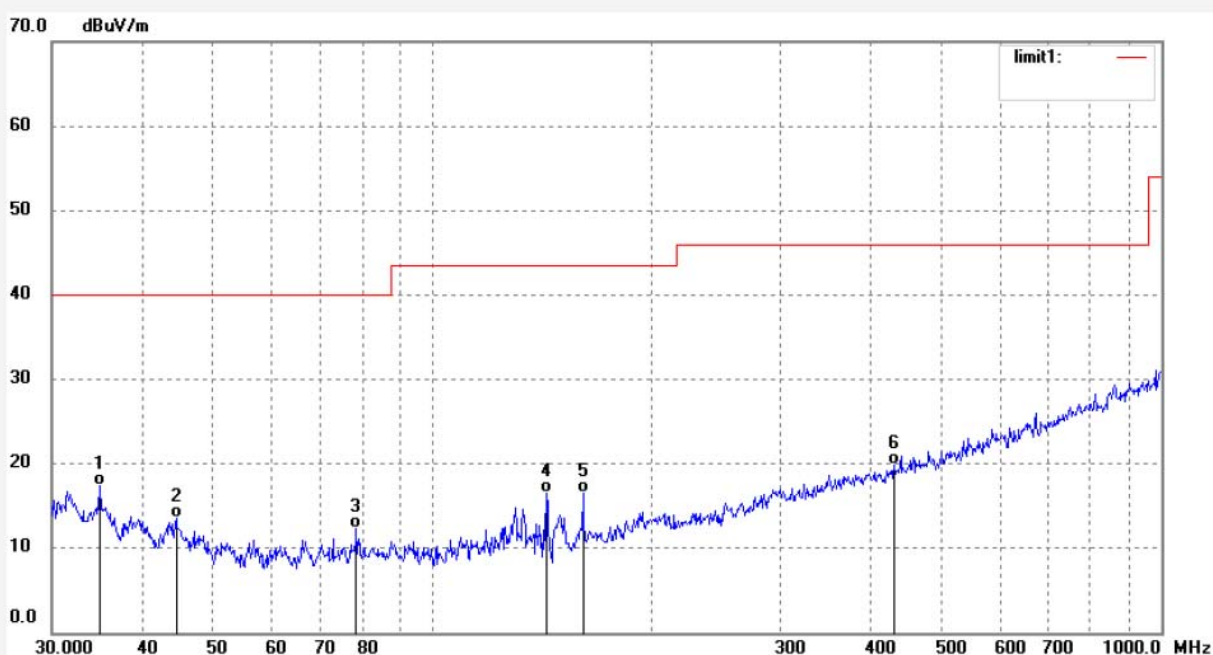
Date: 17/09/07/

Time: 14/01/30

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.8928	33.31	-15.92	17.39	40.00	-22.61	QP	100	191	
2	44.4657	32.42	-18.84	13.58	40.00	-26.42	QP	100	228	
3	78.5645	34.38	-22.09	12.29	40.00	-27.71	QP	100	93	
4	143.2717	38.82	-22.34	16.48	43.50	-27.02	QP	100	78	
5	160.8852	37.76	-21.28	16.48	43.50	-27.02	QP	100	106	
6	430.3053	32.29	-12.43	19.86	46.00	-26.14	QP	100	100	

Job No.: DING11 #1030

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2447MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Horizontal

Power Source: DC 6V

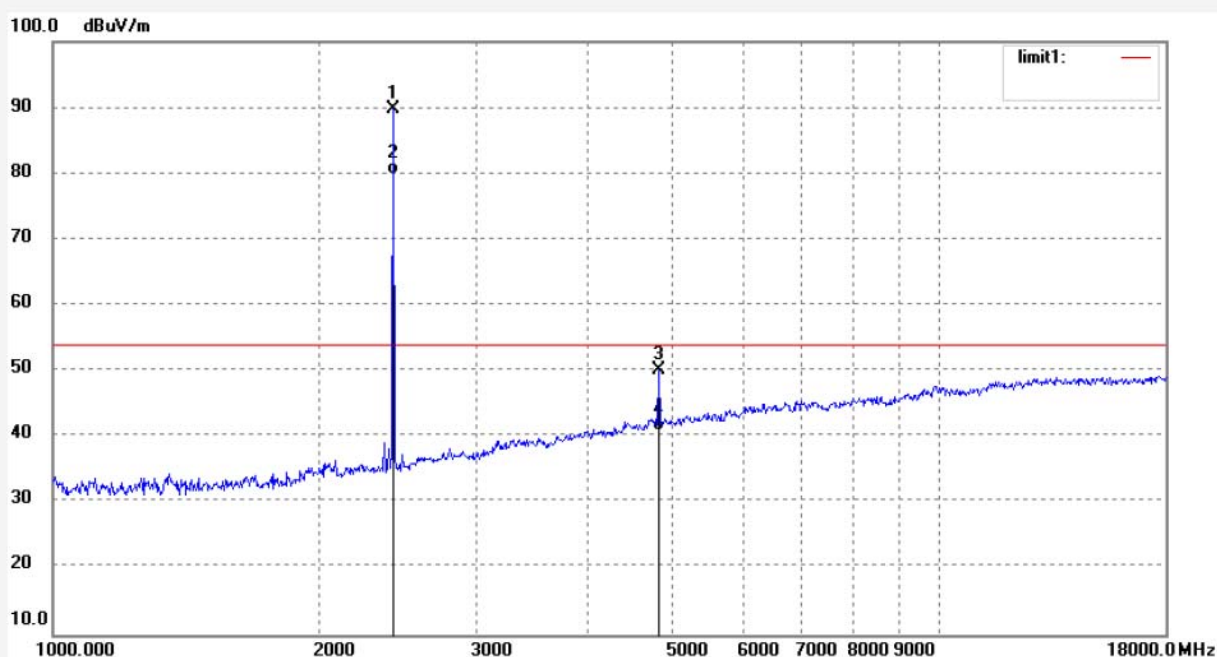
Date: 17/09/07/

Time: 14/07/09

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2447.062	95.52	-5.69	89.83	114.00	-24.17	peak	300	204	
2	2447.062	85.64	-5.69	79.95	94.00	-14.05	AVG	300	188	
3	4894.161	46.39	3.80	50.19	74.00	-23.81	peak	300	75	
4	4894.161	37.21	3.80	41.01	54.00	-12.99	AVG	300	100	

Job No.: DING11 #1029

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2447MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Vertical

Power Source: DC 6V

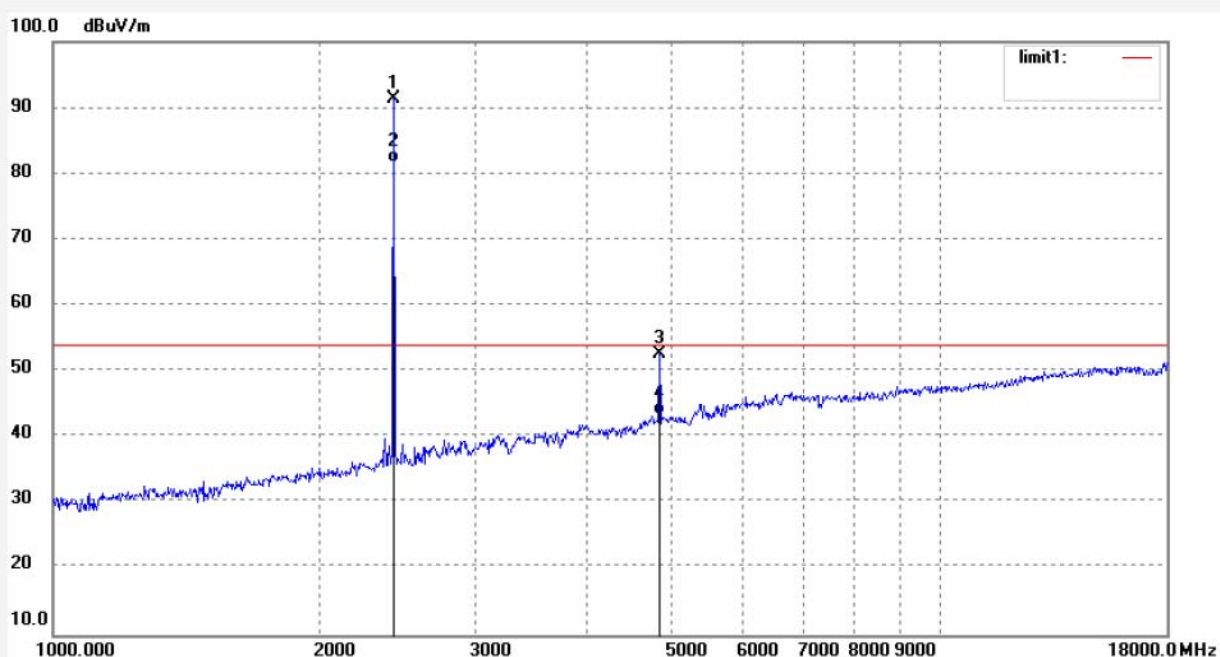
Date: 17/09/07/

Time: 14/05/53

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2447.062	97.02	-5.69	91.33	114.00	-22.67	peak	150	110	
2	2447.062	87.32	-5.69	81.63	94.00	-12.37	AVG	150	124	
3	4894.061	48.89	3.80	52.69	74.00	-21.31	peak	150	200	
4	4894.061	39.67	3.80	43.47	54.00	-10.53	AVG	150	195	



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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: DING11 #1031

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2467MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Horizontal

Power Source: DC 6V

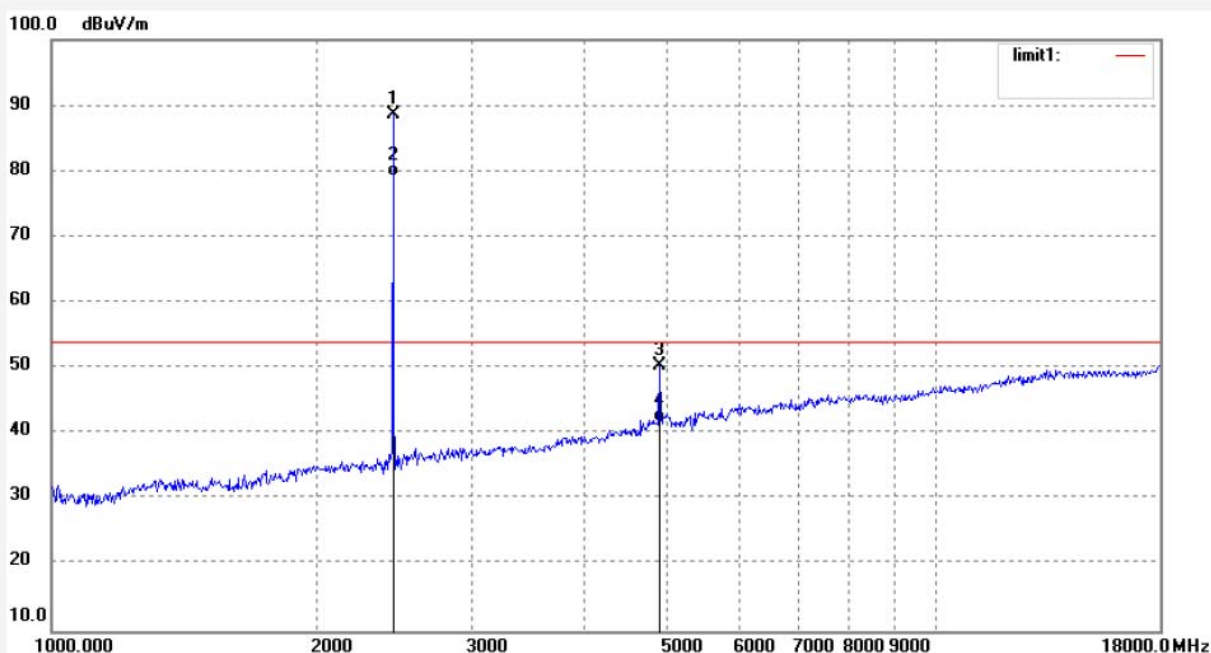
Date: 17/09/07/

Time: 14/09/03

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2467.007	94.16	-5.61	88.55	114.00	-25.45	peak	300	246	
2	2467.007	84.77	-5.61	79.16	94.00	-14.84	AVG	300	201	
3	4934.018	46.04	4.32	50.36	74.00	-23.64	peak	300	177	
4	4934.018	37.51	4.32	41.83	54.00	-12.17	AVG	300	198	



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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: DING11 #1032

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2467MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Vertical

Power Source: DC 6V

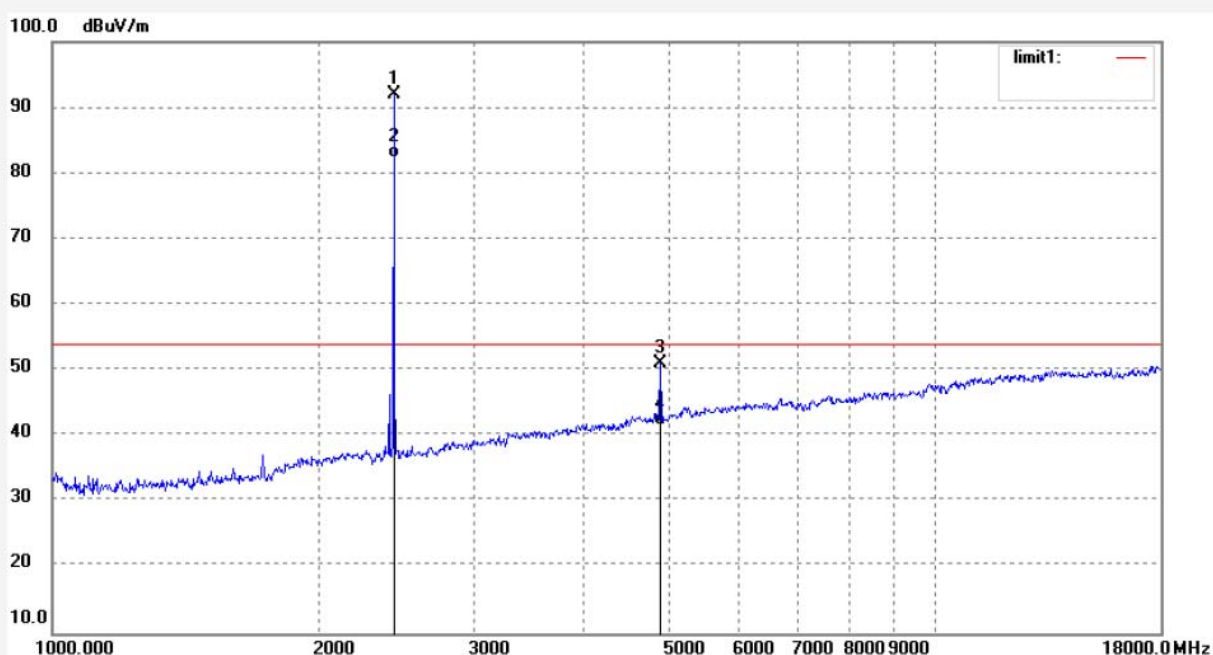
Date: 17/09/07/

Time: 14/14/10

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2467.007	97.70	-5.61	92.09	114.00	-21.91	peak	150	40	
2	2467.107	87.93	-5.61	82.32	94.00	-11.68	AVG	150	91	
3	4934.918	46.70	4.32	51.02	74.00	-22.98	peak	150	147	
4	4934.018	37.19	4.32	41.51	54.00	-12.49	AVG	150	216	



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Job No.: DING11 #1034

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2477MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Horizontal

Power Source: DC 6V

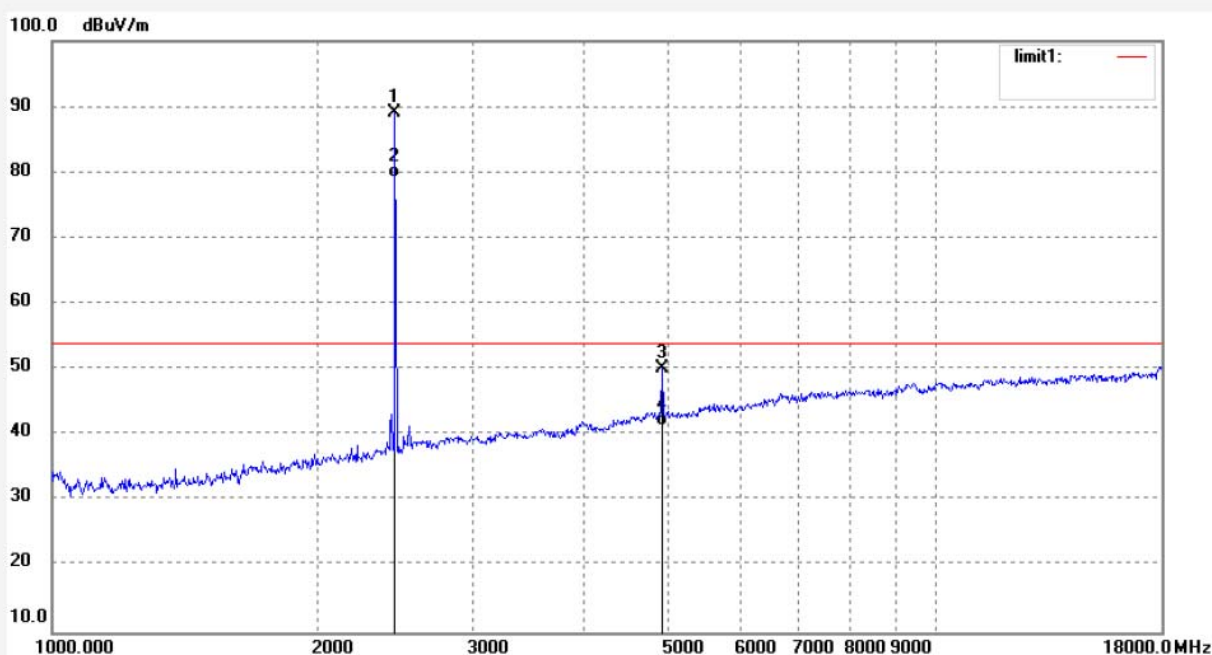
Date: 17/09/07/

Time: 14/27/22

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2477.010	94.58	-5.58	89.00	114.00	-25.00	peak	300	308	
2	2477.010	84.67	-5.58	79.09	94.00	-14.91	AVG	300	287	
3	4954.160	45.81	4.46	50.27	74.00	-23.73	peak	300	117	
4	4954.160	36.84	4.46	41.30	54.00	-12.70	AVG	300	99	

Job No.: DING11 #1033

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Aerial Acrobat Video Drone

Mode: TX 2477MHz

Model: 205982-01

Manufacturer: PURE TOY LIMITED

Polarization: Vertical

Power Source: DC 6V

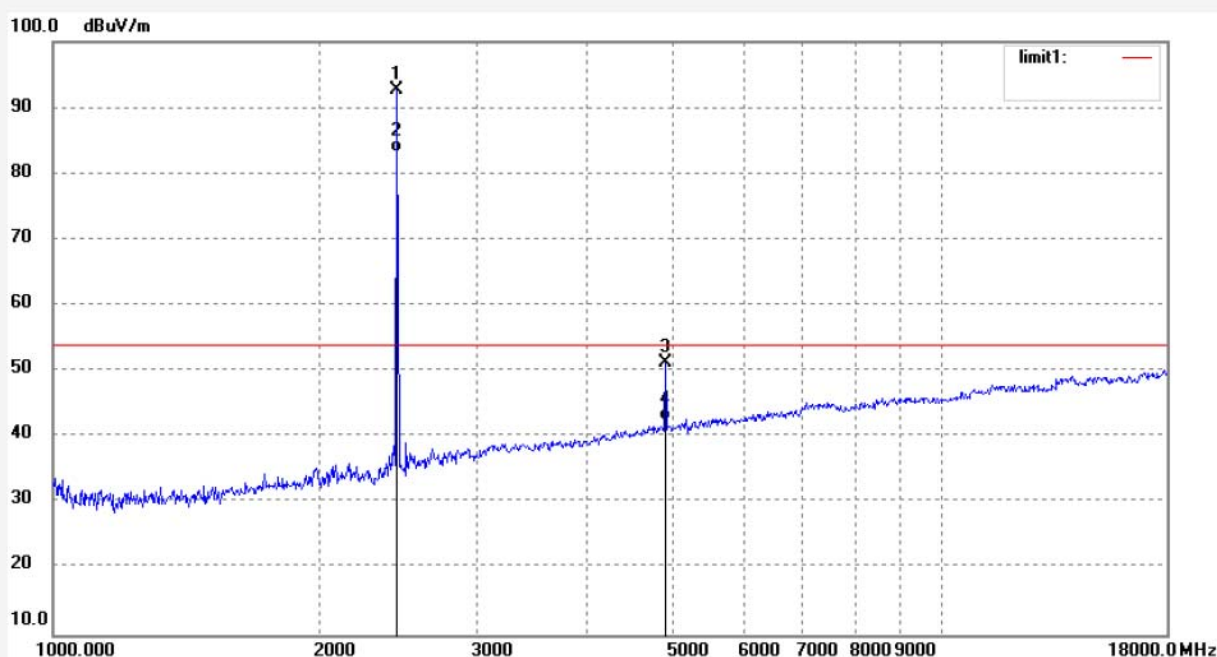
Date: 17/09/07/

Time: 14/20/30

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171777



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2477.007	98.38	-5.61	92.77	114.00	-21.23	peak	150	200	
2	2477.007	88.96	-5.61	83.35	94.00	-10.65	AVG	150	212	
3	4954.160	46.81	4.46	51.27	74.00	-22.73	peak	150	151	
4	4954.160	38.03	4.46	42.49	54.00	-11.51	AVG	150	142	

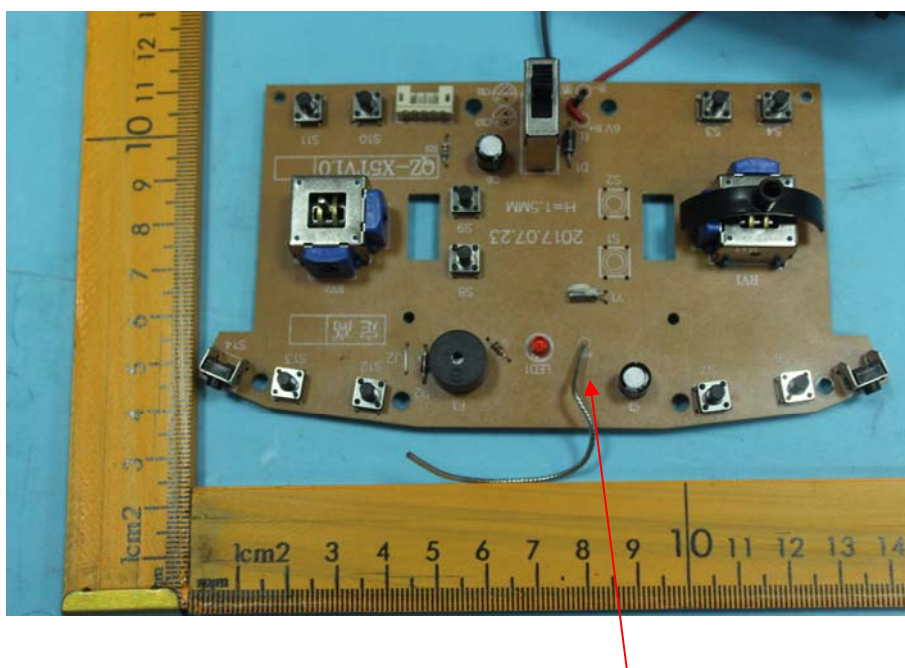
8. ANTENNA REQUIREMENT

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 unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

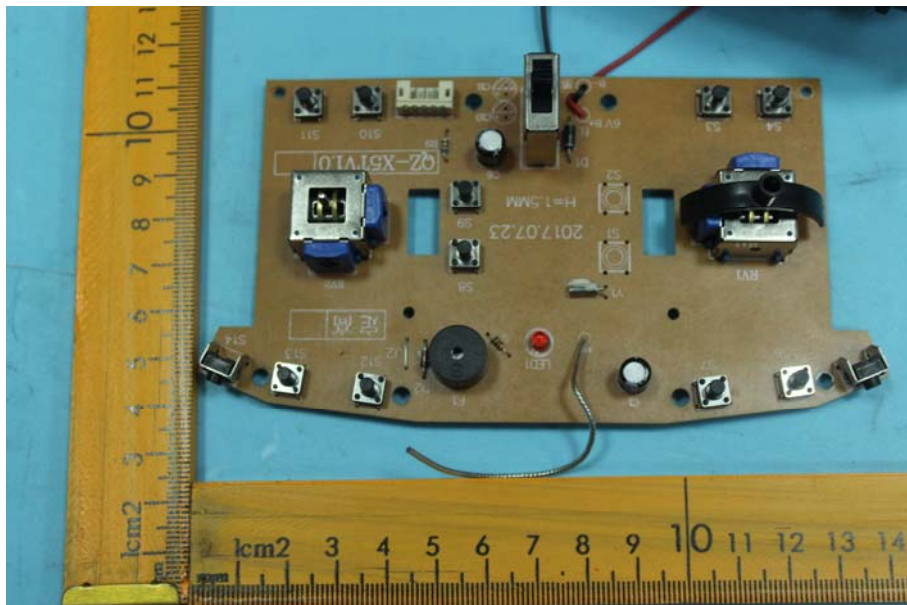
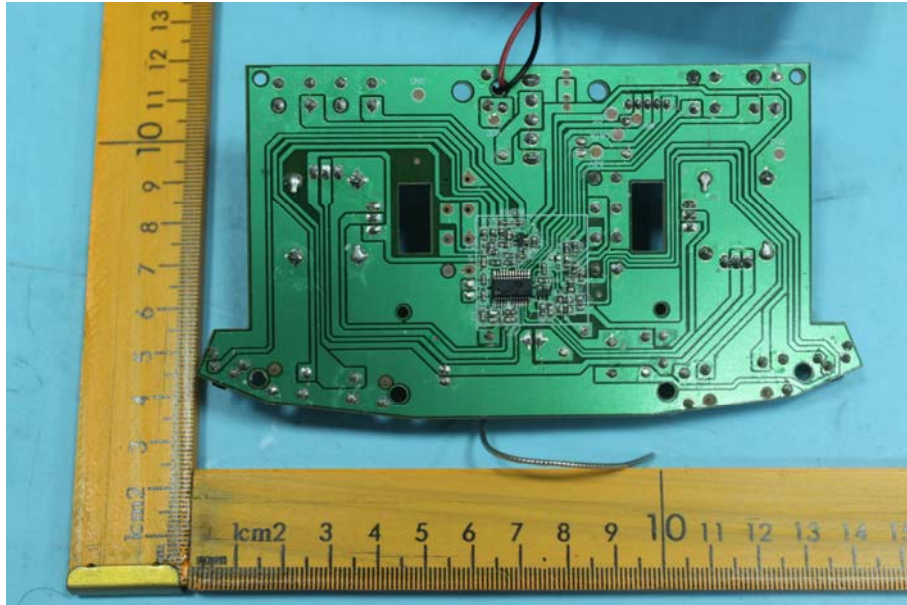
9. PHOTO OF EUT











----- THE END OF TEST REPORT -----