



# **FCC 47 CFR PART 95 SUBPART C**

## **TEST REPORT**

*For*

**Applicant :** RC Model Fun Ltd.

**Address :** No.61,Tingkeng Rd, Tingshan, Houjie, Dongguan,  
Guangdong, China

**Product Name :** Remote Control

**Model Name :** SKY501, SKY601, SKY701 , SKY702

**Brand Name :** SKYARTEC

**FCC ID :** WKN-SKY701

**Report No. :** SZSTS080701F1

**Date of Issue :** August 11, 2008

**Issued by :** Shenzhen Super Test Service Technology Co., Ltd.

**Address :** No.813 Unit A, Huameiju Business Center, Xinhua Road, Bao'an District, Shenzhen, China

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# 1. TEST RESULT CERTIFICATION

<b>Applicant Name:</b>	RC Model Fun Ltd.
<b>Address:</b>	No.61,Tingkeng Rd, Tingshan, Houjie, Dongguan, Guangdong, China
<b>Manufacturer Name:</b>	RC Model Fun Ltd.
<b>Address:</b>	No.61,Tingkeng Rd, Tingshan, Houjie, Dongguan, Guangdong, China
<b>Brand Name:</b>	SKYARTEC
<b>Equipment Under Test:</b>	Remote Control
<b>Model Number:</b>	SKY501, SKY601, SKY701 , SKY702
<b>FCC ID:</b>	WKN-SKY701
<b>Test Standard</b>	FCC 47 CFR Part 95 Subpart C
<b>File Number:</b>	SZSTS080701F1
<b>Date of Test:</b>	July.12 to July 30, 2008

***We (STS) hereby certify that:***

The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 95 C.

The test results of this report relate only to the tested sample identified in this report.

Tested By Glyn He Aug 11. 2008

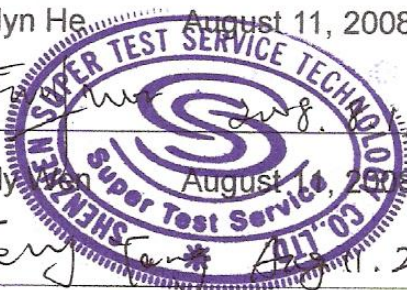
Glyn He August 11, 2008

Checked By July 11. 2008

July 11. 2008 August 11, 2008

Authorized By Terry Yang Aug 11. 2008

Terry Yang August 11, 2008



## 2. Technical Information

Note: the following data is based on the information by the applicant.

### 2.1 EUT Description

<b>Product</b>	Remote Control
<b>Brand Name</b>	SKYARTEC
<b>Model Number</b>	SKY701
<b>Series Model Name:</b>	SKY501, SKY601, SKY701, SKY702
<b>Series Model Difference description:</b>	The difference among the 5 channels, 6 channels, and 7 channels remote control is in the appearance and the sky702 is different from the sky501, sky601, sky701 in the program style.
<b>Power Supply</b>	DC 12 V
<b>Frequency Range</b>	72.690 MHz
<b>Modulation Technique</b>	FM
<b>Temperature Range</b>	0°C-50°C

**Note:**

1. This submittal(s) (test report) is intended for FCC ID: WKN-SKY701 filing to comply with the FCC Part 95, Subpart C Rules.
2. Please refer to Appendix I for the photographs of the EUT. For more details, please refer to the User's manual of the EUT.

## 2.2 Objective

The tests documented in this report were performed in accordance with ANSI C63.4 (2003) and FCC CFR 47 Rules Part 95 Subpart C.

## 2.3 Test Standards and Results

The EUT has been tested according to FCC CFR 47:

- Part 2: Frequency Allocations and Radio Treaty Matters: General Rules and Regulations (10-1-05 Edition)
- Part 95: Personal Radio Service

**Test items and the results are as bellow:**

No	Test Type	Test Data	Limit	Result
1	Frequency Tolerance	Refer to 5.1	0.002%	PASS
2	Emission Bandwidth	4.168 KHz	8 KHz	PASS
3	Unwanted Radiation	Refer to 5.3	-26 dBm	PASS
4	Maximums Transmitter Power	Refer to 5.4	0.75 W	PASS
5	Authorized Operation Channels	Refer to 5.5	Refer to 5.5	PASS
6	Emission Type	Refer to 5.6	Refer to 5.6	PASS
7	Antenna of the Transmitter	Refer to 5.7	Refer to 5.7	PASS
8	Power Capability	Refer to 5.8	Refer to 5.8	PASS
9	Crystal Control	Refer to 5.9	Refer to 5.9	PASS

### 3. Details of Test

#### 3.1 Identification of the Responsible Testing Laboratory

Company:	Shenzhen Super Test Service Technology Co., Ltd.
Address:	No.813 Unit A, Huameiju Business Center,Xinhu Road, Bao'an District, Shenzhen, China

#### 3.2 Identification of the Responsible Testing Location

Test Site:	Bontek Compliance Testing Laboratory Ltd.
Address:	1/F,Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The EMC chamber Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003 and CISPR 22/EN55022 requirements. The FCC Registration Number is <b>338263</b> .

#### 3.3 List of Test Equipments

Description	Manufacturer	Model No.	Serial No.
Test Receiver	ROHDE&SCHWARZ	ESCI	100687
Test Receiver	ROHDE&SCHWARZ	ESPI7	100097
Spectrum Analyzer	Agilent	E4440A	N/A
Ultra Broadband Ant	ROHDE&SCHWARZ	HL562	0304224
EMS Antenna, Horn	SCHWARZBECK	BBHA9120A	B08000991-0001
Log Periodic Antenna	ELECTRO-METRICS	EM-6950	811
High Field Bucolical Antenna	ELECTRO-METRICS	EM-6913	166
Power Frequency Test System	HAEFELY	PHF 555	0103105
Signal Generator	ROHDE&SCHWARZ	SML02	A0304261
Power Amplifier	HP	8447D	1937A02492
Field Monitor	Amplifier Research	AR FM5004	305128
Anechoic Chamber	CCS	9*6*6	N/A

#### 3.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60%
- Atmospheric pressure: 86-106 k Pa

## 4. Test Methodology

### 4.1 General Test Procedures

#### **Conducted Emissions**

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirement in Section 13.1.4.1 of ANSI C63.4:2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

**Not Applicable (Since the EUT is powered by battery)**

#### **Radiated Emissions**

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2003.

### 4.2 Description of Test Modes

The EUT has been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

### 4.3 FCC Part 15.205 Restricted Bands of Operations

- (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	2655 - 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 MHz.

<sup>2</sup> Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, 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.



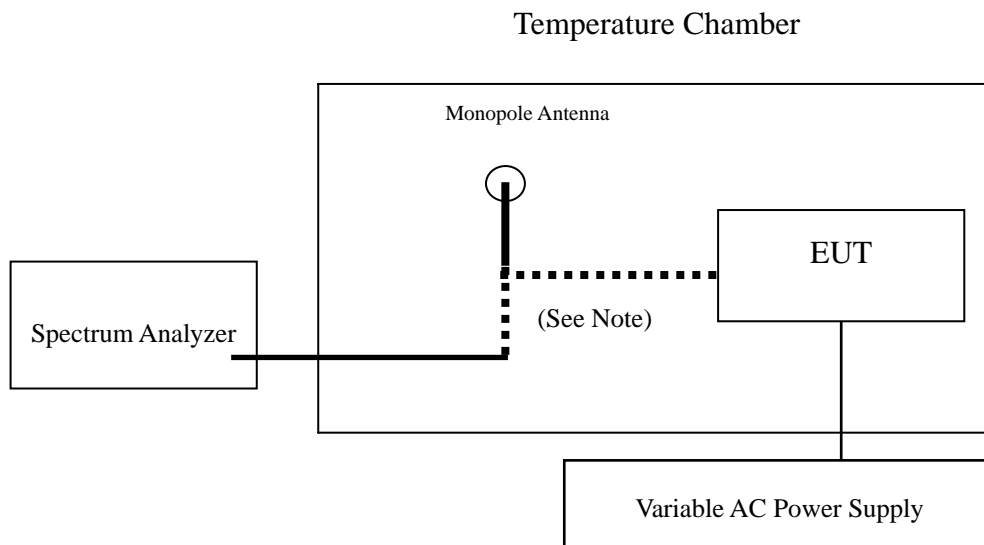
## 5. FCC Part 95 Requirements

### 5.1 Frequency Tolerance Measurement

#### LIMIT

1. According to FCC part 2 section 2.1055(a)(1), the frequency stability shall be measured with variation of ambient temperature from  $-30^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  centigrade.
2. According to FCC part 2 section 2.1055(d) (2), for hand carried battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacturer.
3. According to FCC part 95 section 95.623 (c), the frequency tolerance must be maintained within 0.002%.

#### TEST CONFIGURATION



## **TEST PROCEDURE**

### **Frequency Stability versus environmental temperature:**

1. Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
2. Turn on the EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 KHz and Video Resolution Bandwidth to 1 KHz and frequency span to 50 KHz. Recorded this frequency as reference frequency.
3. Set the temperature of chamber to 50°C. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn on the EUT and measure the EUT operating frequency.
4. Repeat step 2 with a 10 °C decreased per stage until the lowest temperature -30 °C is measured, record all measured frequencies on each temperature step.

### **Frequency Stability versus input voltage:**

1. Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15 °C to 25 °C. Otherwise, an environment chamber set for a temperature of 20 °C shall be used. Install new battery in the EUT.
2. Turn on the EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 KHz and Video Resolution Bandwidth to 1 KHz and frequency span to 50 KHz. Recorded this frequency as reference frequency.
3. For battery operated only device, supply the EUT primary voltage at the operating end point which is specified by manufacture and record this frequency.

## **TEST RESULTS**

**CONCLUSION: PASS**

**Test Data:****1. Frequency Stability versus environmental temperature:**

Reference Frequency: 72.690 MHz			
Environment Temperature	Power Supply	Frequencies Deviation Measured with Time Elapse (10 minute)	
		Frequency (MHz)	Deviation (%)
50°C	12 V	72.68965	-0.00048%
40°C	12 V	72.68973	-0.00037%
30°C	12 V	72.69000	0
20°C	12 V	72.69000	0
10°C	12 V	72.69031	0.00043%
0°C	12 V	72.69037	0.00051%
-10°C	12 V	72.69051	0.00070%
-20°C	12 V	72.69058	0.00079%
-30°C	12 V	72.69069	0.00095%
Limit		0.002%	
<b>CONCLUSION</b>		<b>PASS</b>	

**2. Frequency Stability versus input voltage:**

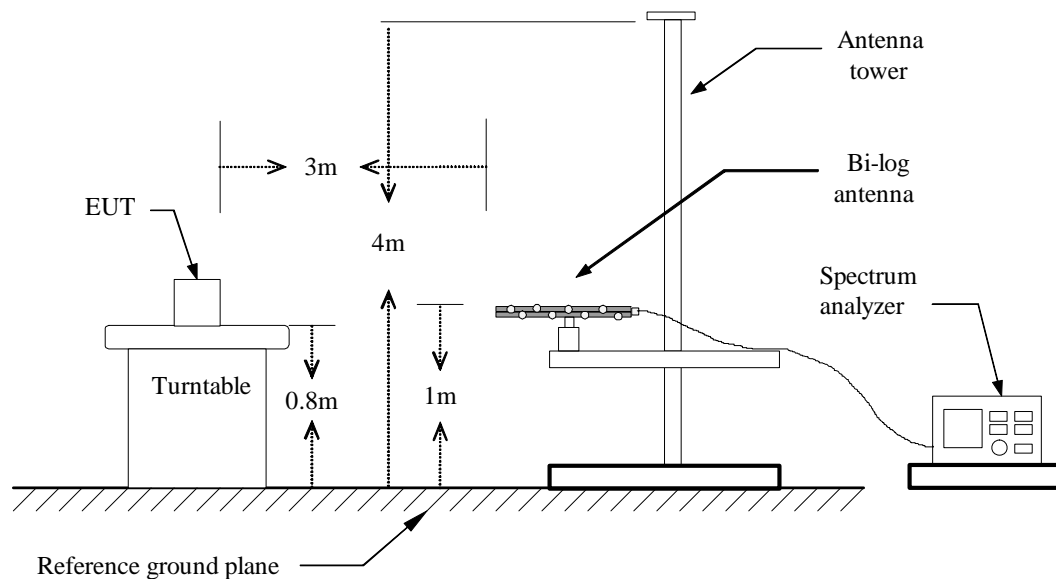
Reference Frequency: 72.690 MHz			
Input Voltage	Frequency Measured	Frequencies Deviation Measured	
		Deviation (%)	Limit
12 V	72.69000	0	0.002%
11 V	72.69017	0.00023%	0.002%
10 V	72.69025	0.00034%	0.002%
9.8 V	72.69031	0.00043%	0.002%
8.6 V	72.69036	0.00050%	0.002%
7.2 V	72.69049	0.00067%	0.002%
<b>CONCLUSION</b>		<b>PASS</b>	

## 5.2 Emission Bandwidth Measurement

### LIMIT

According to FCC Part 95 Section 95.633 (b): The authorized bandwidth for any emission type transmitted by an R/C transmitter is 8 KHz.

### TEST CONFIGURATION



### TEST PROCEDURE

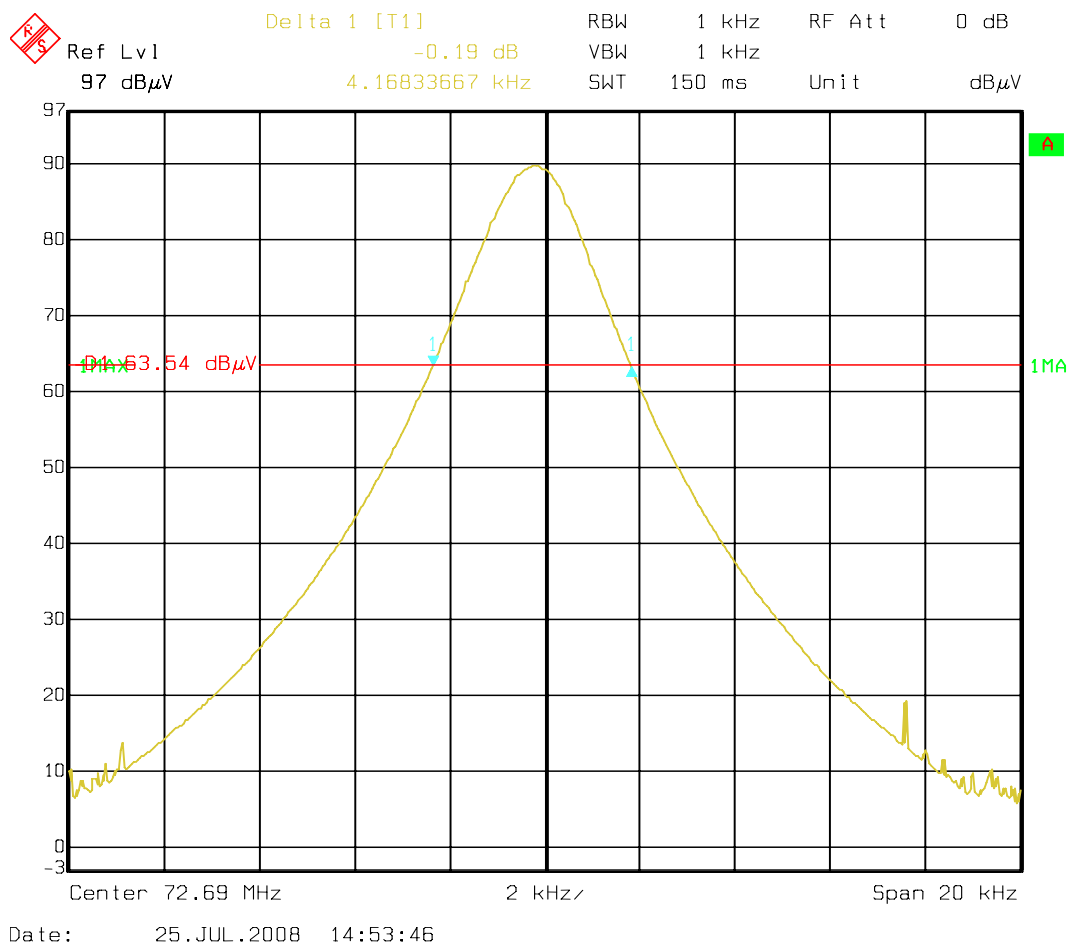
1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Set SPA center frequency=fundamental frequency, RBW, VBW=1 KHz, Span=50 KHz.
4. Set SPA max. Hold. Mark peak, -26dB.

### TEST RESULTS

Frequency	Emission Bandwidth	Limit
72.6900 MHz	4.168 KHz	8 KHz

### CONCLUSION: PASS

## Test Plot:



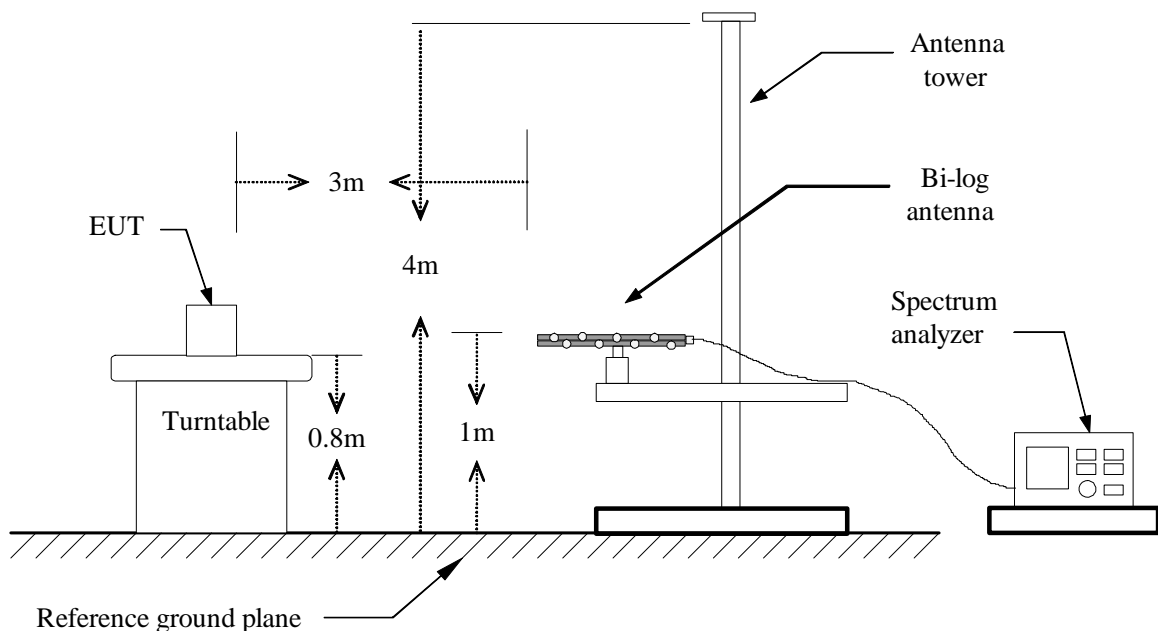
## 5.3 Unwanted Radiation

### LIMIT

According to FCC Part 95 Section 95.635 (b), the power of each unwanted emissions shall be less than transmitter power as specified below:

- 1). At least 25 dB on any frequency removed from the center of the authorized frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth;
- 2). At least 45 dB on any frequency removed from the center of the authorized frequency by more than 100 percent up to and including 125 percent of the authorized bandwidth;
- 3). At least 55 dB on any frequency removed from the center of the authorized frequency by more than 125 percent up to and including 250 percent of the authorized bandwidth;
- 4). At least  $56 + 10 \log_{10} (TP)$  dB on any frequency removed from the center of the authorized frequency by more than 250 percent of the authorized bandwidth;

### TEST CONFIGURATION



## **TEST PROCEDURE**

1. On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
2. The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
3. The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
4. The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
8. The maximum signal level detected by the measuring receiver shall be noted.
9. The measurement shall be repeated with the test antenna set to horizontal polarization.
10. Replace the antenna with a proper Antenna (substitution antenna).
11. The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
12. The substitution antenna shall be connected to a calibrated signal generator.
13. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
14. The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
15. The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
16. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
17. The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

## **TEST RESULTS**

### **TEST DATA**

Frequency (MHz)	Reading level (dBuv)	Antenna Polarization	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
58.0759	63.26	V	-45.67	9.26	1.28	-53.65	-26	-27.65 dB
87.2980	51.19	V	-51.44	13.09	1.42	-63.11	-26	-37.11 dB
145.8109	64.08	V	-41.56	15.17	1.75	-52.90	-26	-26.90 dB
218.07	--	V	--	--	--	--	-26	> 30 dB
290.76	--	V	--	--	--	--	-26	> 30 dB
363.45	--	V	--	--	--	--	-26	> 30 dB
436.14	--	V	--	--	--	--	-26	> 30 dB
508.83	--	V	--	--	--	--	-26	> 30 dB
581.52	--	V	--	--	--	--	-26	> 30 dB
654.21	--	V	--	--	--	--	-26	> 30 dB
726.90	--	V	--	--	--	--	-26	> 30 dB
--								
58.0759		H	-57.46	9.26	1.28	-65.44	-26	-39.44
145.8109		H	-54.50	15.17	1.75	-67.92	-26	-41.92
218.07	--	H	--	--	--	--	-26	> 30 dB
290.76	--	H	--	--	--	--	-26	> 30 dB
363.45	--	H	--	--	--	--	-26	> 30 dB
436.14	--	H	--	--	--	--	-26	> 30 dB
508.83	--	H	--	--	--	--	-26	> 30 dB
581.52	--	H	--	--	--	--	-26	> 30 dB
654.21	--	H	--	--	--	--	-26	> 30 dB
726.90	--	H	--	--	--	--	-26	> 30 dB
--								

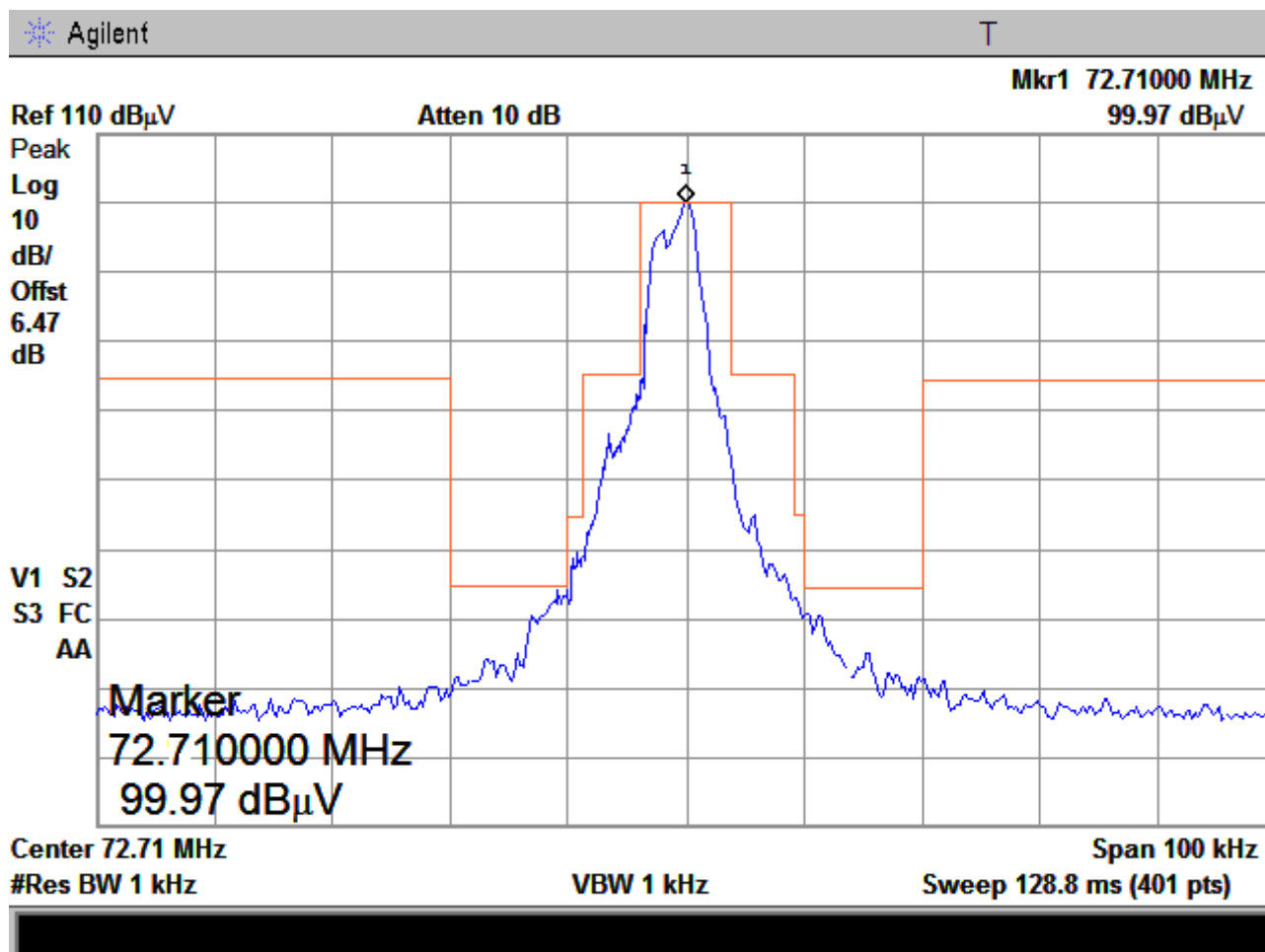
Notes:

*Emission Level*=S.G ourput power(dBm)-Cable loss(db)+Antenna Gain(dBi)

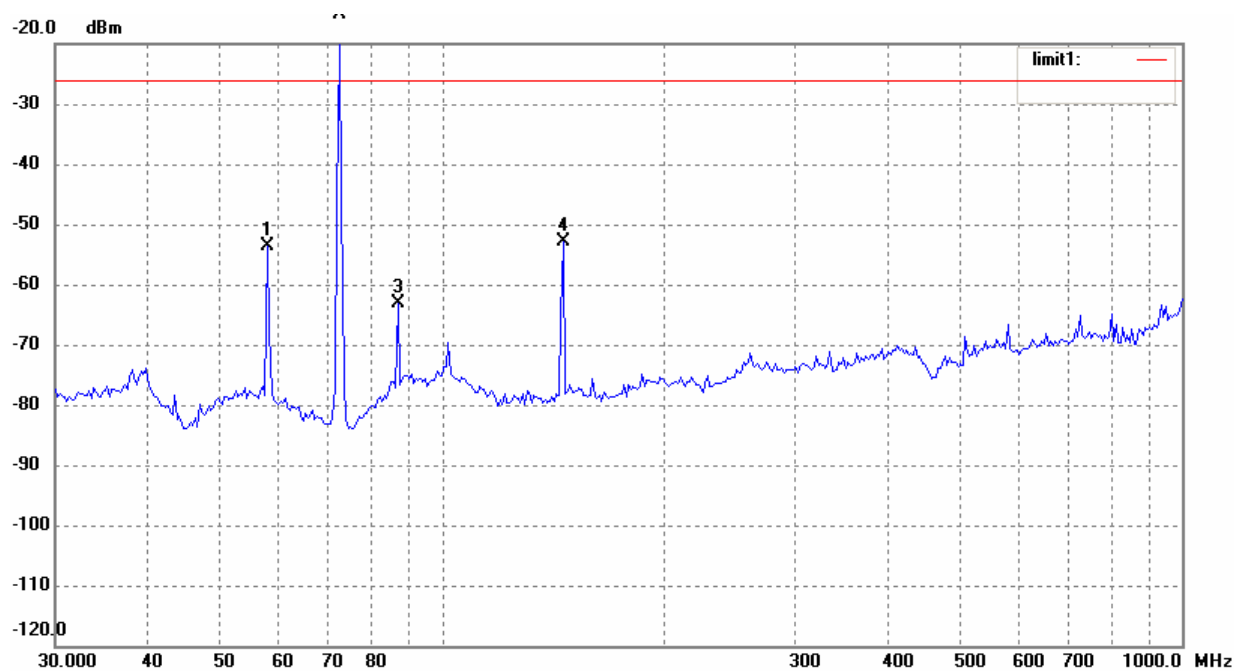
*Limit (dBm)*=  $56+10\log P[\text{watts}] = -26\text{dBm}$

**CONCLUSION: PASS**

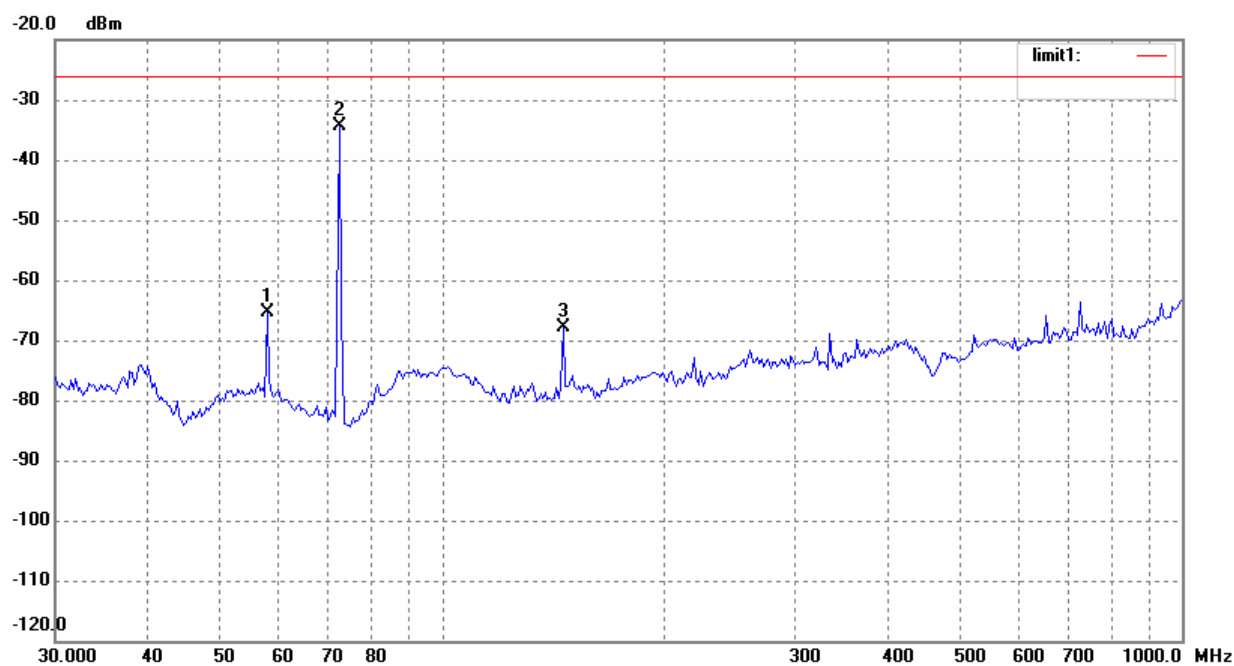


**TEST PLOT****Emission Mask**

## Unwanted Radiation



## Vertical



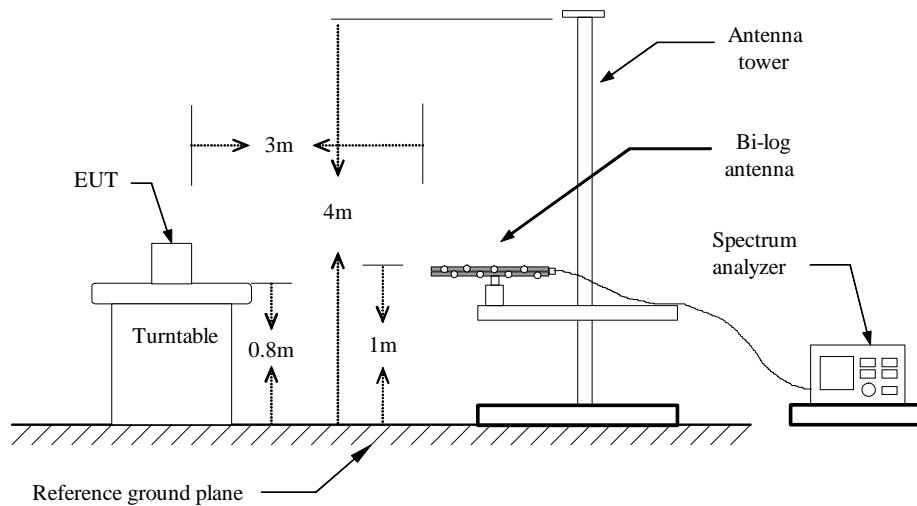
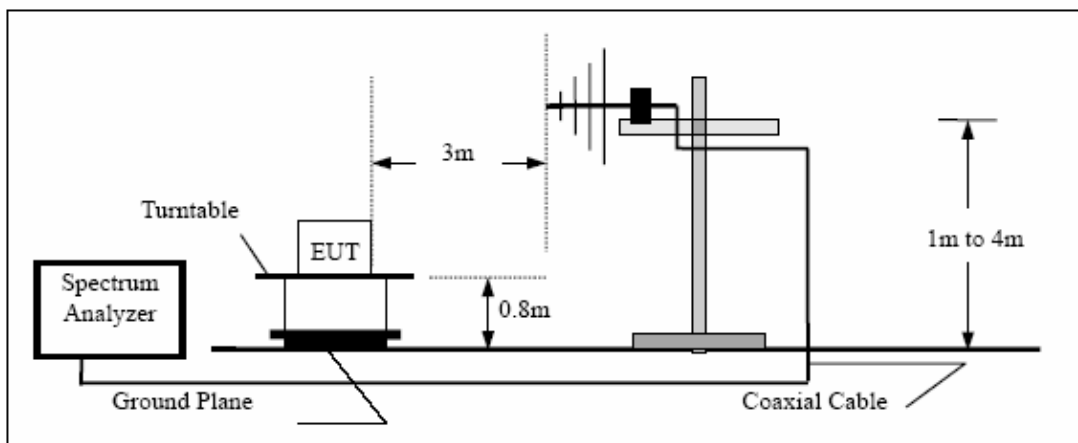
## Horizontal

## 5.4 Maximum Transmitter Power

### LIMIT

According to FCC Part 95 Section 95.639 (b), under any condition of modulation, the R/C transmitter operates in the 72-76 MHz frequency band shall not exceed a carrier power of 0.75W.

### TEST CONFIGURATION



## **TEST PROCEDURE**

1. On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
2. The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
3. The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
4. The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
8. The maximum signal level detected by the measuring receiver shall be noted.
9. The measurement shall be repeated with the test antenna set to horizontal polarization.
10. Replace the antenna with a proper Antenna (substitution antenna).
11. The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
12. The substitution antenna shall be connected to a calibrated signal generator.
13. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
14. The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
15. The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
16. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
17. The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

**TEST RESULTS**

Freq. (MHz)	Antenna Polarity	Reading (dBuV)	SG O/P (dBm)	Ant. Gain (dB)	Cable (dB)	Corrected Power		Limit (W)
						(dBm)	(mW)	
72.6903	V	94.64	-24.88	11.32	1.38	-14.94	0.0321	0.75
72.6903	H	71.04	-44.41	11.32	1.38	-34.47	0.0004	

**CONCLUSION: PASS**

## **5.5 Authorized Operation Channels**

### **REQUIREMENT**

According to FCC Part Section 95.207, the authorized operation channels for model aircrafts are located on the frequencies from 72.01 MHz to 72.99 MHz with the interval of 200 KHz.

### **RESULTS**

The EUT designed as a model aircraft controller with the operation frequency on 72.69 MHz accordance with the requirement above.

## **5.6 Emission Type**

### **REQUIREMENT**

According to FCC Part Section 95.631, An R/C Transmitter may transmit any appropriate non-voice emission which meets the emission limitation of § 95.633.

### **RESULTS**

The EUT is solely used to control model aircraft without transmitting any voice emission and it has been tested to comply with the emission limitation of § 95.633.

## **5.7 Antenna of the Transmitter**

### **REQUIREMENT**

According to FCC Part Section 95.647, the antenna of each R/C station transmitting in 72 MHz-76 MHz band, must be an integral part of the transmitter. The antenna must have no gain and must be vertically polarized.

### **RESULTS**

The antenna is designed as fixed, non-user replaceable with no gain and vertically polarized unit integrated to EUT.

## **5.8 Power Capability**

### **REQUIREMENT**

According to FCC Part Section 95.649, no R/C unit shall incorporate provisions for increasing its transmitter power to any level in excess of the limits specified in § 95.639.

### **RESULTS**

All the components employed by EUT have the power capability less than 0.75 W either being assembled or individual.

## **5.9 Crystal Control**

### **REQUIREMENT**

According to FCC Part Section 95.651, all transmitter used in Personal Radio Services must be crystal controlled, except an R/C station that transmits in 26 MHz-27 MHz frequency band.

### **RESULTS**

The crystal is not accessible to user.