

FCC TEST REPORT
for
ImportAdvantage, Inc

Remote Control
Model No.: KSR315A

Prepared for : ImportAdvantage, Inc
Address : 40 SE 7th Street, Boca Raton, FL 33432 United States

Prepared By : Anbotek Compliance Laboratory Limited
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Report Number : 201009716F
Date of Test : Nov. 01~13, 2010
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APPENDIX I (Photos of EUT) (3 Pages)

TEST REPORT

Applicant : ImportAdvantage, Inc
Manufacturer : Dongguan Kitwell Electric Furniture Co. Ltd.
EUT : Remote Control
Model No. : KSR315A
Serial No. : N/A
Rating : DC 6V via Battery
Trade Mark : N/A

Measurement Procedure Used:

FCC Part15 Subpart C, Paragraph 15.231

The device described above is tested by Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

Date of Test :

P qx. 21~33, 2010

Well Wang

Prepared by :

(Tested Engineer / Well Wang)

Coco Xiang

Reviewer :

(Project Manager / Coco Xiang)

Tom. Chen

Approved & Authorized Signer :

(Manager / Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Remote Control

Model Number : KSR315A

Test Power Supply : DC 6V via 2 Pcs new (full) Lithium Cell

Frequency : 315MHz

Antenna : Gain is 1dBi
(The device uses an integral PCB antenna which is not intended and easy to modify.)

Applicant : ImportAdvantage, Inc
Address : 40 SE 7th Street, Boca Raton, FL 33432 United States

Manufacturer : Dongguan Kitwell Electric Furniture Co. Ltd.
Address : Shangheng, Guan Li Qu, Changping, Dongguan, Guangdong, China

Date of receiver : Nov. 01, 2010

Date of Test : Nov. 01~11, 2010

1.2. Description of Test Facility

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

CNAS - LAB Code: L3503

Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, August 20, 2010.

IC-Registration No.: 8058A-1

Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, August 30, 2010.

Test Location

All Emissions tests were performed at
Anbotek Compliance Laboratory Limited. at 1/F, 1 /Building, SEC Industrial Park,
No. 4 Qianhai Road, Nanshan District, Shenzhen, 518054, China

1.3. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB

1.4. Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart C Section 15.231 for Emissions

Tests Carried Out Under FCC Part 15 Subpart C

Standard	Test Items	Status	Application
Part 15 Subpart C Section 15.231	Disturbance Voltage at The Mains Terminals	x	N/A, without AC power supply
	Radiation Emission	√	
	20dB Bandwidth	√	
	Duty Cycle	√	

√ Indicates that the test is applicable

x Indicates that the test is not applicable

2. MEASURING DEVICE AND TEST EQUIPMENT

Equipment	Manufacturer	Model #	Serial #	Data of Cal.	Due Data
EMI Test Receiver	Rohde & Schwarz	ESCI	100119	Mar.03, 2010	Mar.02, 2011
EMI Test Receiver	Rohde & Schwarz	ESPI	1101604	Jun.21, 2010	Jun.20, 2011
EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	Sep.22, 2010	Sep.21, 2011
EMI Test Software	SHURPLE	ESK1	N/A	N/A	N/A
Spectrum Analyzer	Agilent	E7405A	MY45114970	Jun.21, 2010	Jun.20, 2011
Signal Generator	Rohde & Schwarz	SMR27	100124	Jul.06, 2010	Jul.05, 2012
Signal Generator	Rohde & Schwarz	SML03	102319	Aug.01, 2010	Aug.01, 2012
AC Power Source	Sepcial power system	YF650	N/A	N/A	N/A
Absorbing Clamp	Rohde & Schwarz	MDS21	100218	Apr.30, 2010	Apr.29, 2012
Power Meter	Rohde & Schwarz	NRVD	101287	Jul.19, 2009	Jul.18, 2011
Coaxial Cable	N/A	N/A	N/A	May.31, 2010	May.30, 2011
Coaxial Cable	N/A	N/A	N/A	May.31, 2010	May.30, 2011
Coaxial Cable	N/A	N/A	N/A	May.31, 2010	May.30, 2011
Universal radio Communication tester	Rohde & Schwarz	CMU200	101724	Sep.08, 2009	Sep.07, 2011
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
BiConilog Antenna	ETS-LINDGREN	3142C	00042670	Mar.03, 2010	Mar.02, 2011
BiConilog Antenna	ETS-LINDGREN	3142C	00042673	Mar.03, 2010	Mar.02, 2011
Double-ridged Waveguide horn	ETS-LINDGREN	3117	00035926	Dec.30, 2009	Dec.29, 2011
Double-ridged Waveguide horn	ETS-LINDGREN	3117	00041545	Dec.30, 2009	Dec.29, 2011
Pre-amplifier	CD	PAM0203	804203	Jun.21, 2010	Jun.20, 2011
RF Switch	CD	RSU-M3	706543	Jun.21, 2010	Jun.20, 2011
Thermo-/Hygrometer	N/A	TH01	N/A	May.03, 2010	May.02, 2011
Shielding Room	Zhong Yu Electronic	N/A	N/A	N/A	N/A
3m Semi-Anechoic Chamber	Zhong Yu Electronic	N/A	N/A	Apr.28, 2010	Apr.27, 2012

3. Test Procedure

GENERAL: This report shall NOT be reproduced except in full without the written approval of Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS

33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

4. Radiation Interference

4.1. Requirements (15.231):

According to 15.231(b), the field strength of emissions from Intentional Radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental		Field Strength of Spurious	
	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)
40.66 - 40.70	67.04	2,250	47.04	225
70 - 130	61.94	1,250	41.94	125
130 - 174	* 61.94 - 71.48	* 1,250 - 3,750	* 41.94 - 51.48	* 125 - 375
174 - 260	71.48	3,750	51.48	375
260 - 470	* 71.48 - 81.94	* 3,750 - 12,500	* 51.48 - 61.94	* 375 - 1,250
above 470	81.94	12,500	61.94	1,250

4.2 Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz. The EUT is tested in 9*6*6 Chamber.

4.3 Test Results

PASS.

The test data Please refer the following pages.

FCC ID: YMZ20100930

Data:**Horizontal**

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB
272.27	1.51	12.53	41.33	55.82	28.53	46.00	-17.47
314.98	1.64	13.33	41.42	88.12	61.67	75.6	-13.93
631.68	2.36	18.56	39.95	66.63	47.6	74	-26.40
945.44	3.00	21.32	38.30	63.86	49.88	74	-24.12
1261.32	3.10	24.05	38.41	55.45	44.19	74	-29.81
1575.54	3.11	25.75	38.82	48.11	38.15	74	-35.85
1890.220	---	---	---	---	---	---	---
2205.340	---	---	---	---	---	---	---
2520.360	---	---	---	---	---	---	---
2835.580	---	---	---	---	---	---	---
3150.210	---	---	---	---	---	---	---

Vertical

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/ m	Limit dBμV/ m	Over Limit dB
110.57	0.85	12.25	41.28	47.24	19.06	43.50	-24.44
314.98	1.64	13.33	41.42	87.28	60.83	75.6	-14.77
631.68	2.36	18.56	39.95	63.94	44.91	74	-29.09
945.44	3.00	21.32	38.30	58.32	44.34	74	-29.66
1261.32	3.10	24.05	38.41	50.25	38.99	74	-35.01
1575.54	3.11	25.75	38.82	44.10	34.14	74	-39.86
1890.220	---	---	---	---	---	---	---
2205.340	---	---	---	---	---	---	---
2520.360	---	---	---	---	---	---	---
2835.580	---	---	---	---	---	---	---
3150.210	---	---	---	---	---	---	---

NOTE: 1. All values measured above 1GHz are recorded as Peak values.**2. “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.**

5. 20dB Bandwidth

5.1. Requirements (15.231):

In accordance with Part15.231(c), the fundamental frequency bandwidth was kept within 0.25% of the center frequency for devices operating >70MHz and <900MHz.

Fundamental Frequency (MHz)	Limit of 20dB Bandwidth (kHz)
314.99	$314990 \times 0.0025 = 787.475$

5.2. EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2003.

The EUT was placed on the center of the nonmetal table which is 0.8 meter above a grounded turntable. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level.

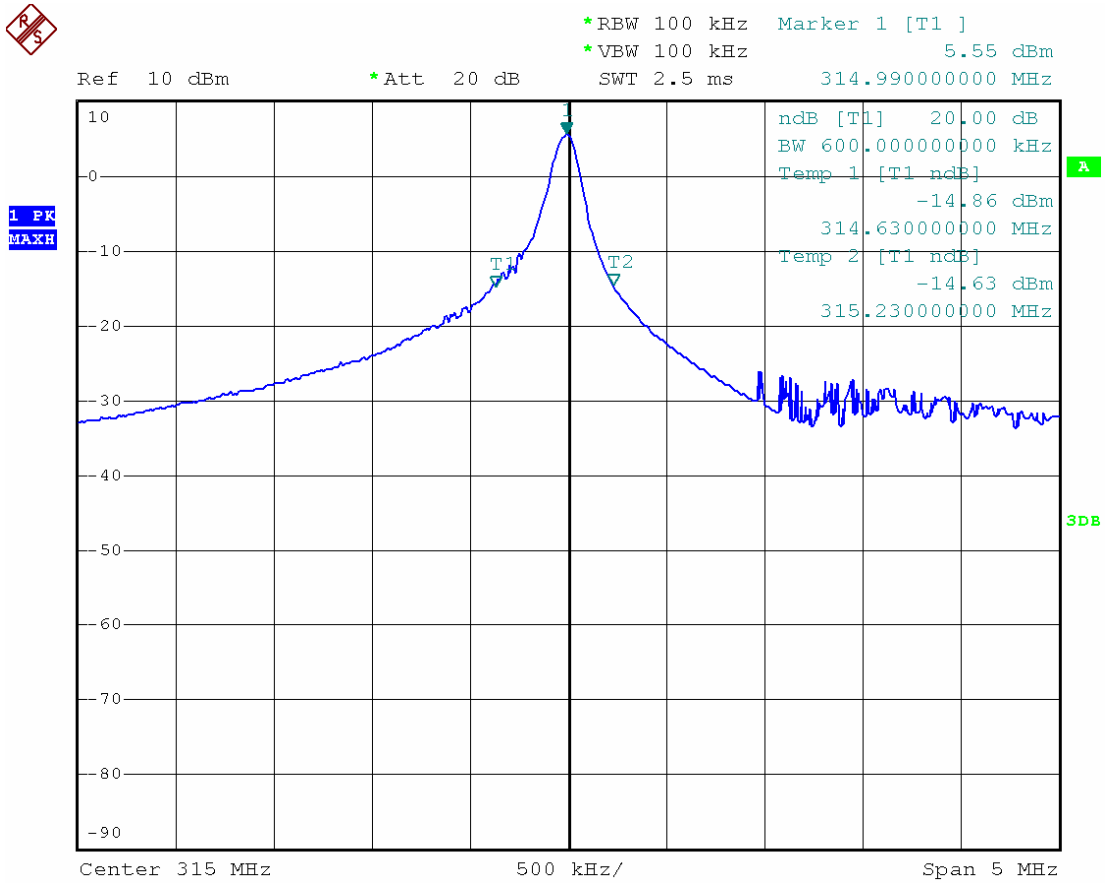
Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

5.3. Test Results

Pass.

Please refer the following plot.

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6. DUTY CYCLE

6.1. EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2003.

The EUT was placed on the center of the nonmetal table which is 0.8 meter above a grounded turntable. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level.

6.2. Test Procedure

The EUT was placed on a turntable which is 0.8m above ground plane.

Set EUT operating in continuous transmitting mode

Set Test Receiver into spectrum analyzer mode, Tune the spectrum analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth(RBW) to 100kHz and video bandwidth(VBW) to 100kHz, Span was set to 0Hz.

The Duty Cycle was measured and recorded.

6.3. Requirements & Result

1. Regulation 15.231(a) The provisions of this Section are restricted to periodic operation within the band 40.66 -40.70 MHz and above 70 MHz. Except as shown in paragraph (e) of this Section, the intentional radiator is restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Continuous transmissions, voice, video and the radio control of toys are not permitted.

Result:

The EUT is a remote switch without audio or video transmitted.

The EUT meets the requirements of this section.

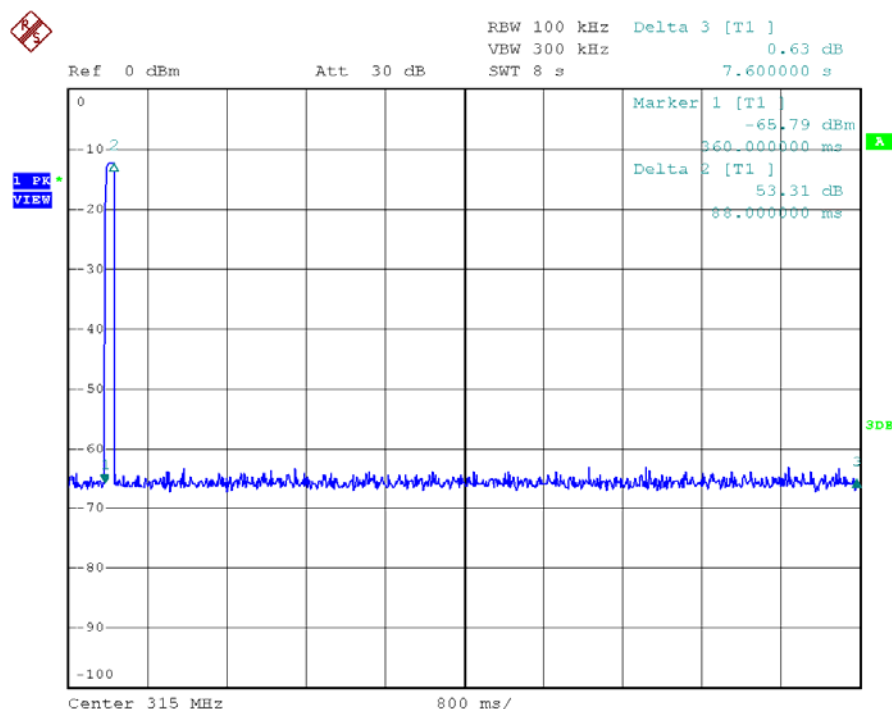
2. Regulation 15.231(a1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

Result:

Test plots see following pages.

The EUT meets the requirements of this section.

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ANBOTEK

Date: 11.NOV.2010 13:38:58

Note: “Marker 1” mean the moment button is pressed, and “Marker 2” mean where the button is released (no longer pressed). Then, from the plot, TX must be deactivated within 5 sec. Both UP and DOWN buttons were verified and give the same results.

3. Regulation 15.231(a2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

Result:

The EUT doesn't have automatic transmission.

4. Regulation 15.231(a3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

Result:

The EUT doesn't employ periodic transmission.

5. Regulation 15.231(a4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

Result:

This section is not applicable to the EUT.

The results: The unit does meet the FCC PART 15 C Section 15.231 requirements