

FCC PART 15.231
EMI MEASUREMENT AND TEST REPORT
For

Shenzhen Xi Long Electronics Co.,Ltd.

D1, 5th Floor, Tianji Building, TianAn Cyber Park, Futian District, Shenzhen, China

FCC ID: WO9XSJ-88X

Sep. 16, 2008

This Report Concerns: Original Report	Equipment Type : Wireless Remote
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Report No.:	F08090202A
Receive EUT Date/Test Date:	Sep.10,2008/ Sep.10-16,2008
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1. GENERAL INFORMATION

1.1. Report information

1.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.

1.1.2.The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

Test Facility -

The test site used to collect the radiated data is located on the address of Shenzhen Academy of Metrology & Quality Inspection. (FCC Registered Test Site Number: 274801) on Longzhu Road, Nanshan Shenzhen, Guangdong, China

The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

Available upon request.

2. PRODUCT DESCRIPTION

2.1. EUT Description

Description : Wireless Remote

Applicant : Shenzhen Xi Long Electronics Co.,Ltd.
D1, 5th Floor, Tianji Building, TianAn Cyber Park,
Futian District, Shenzhen, China

Model Number : XSJ-88X

Additonal Information

Frequency : 433.92MHz

Power Supply : DC12V (Supplied by battery)

Maximum Range : N/A

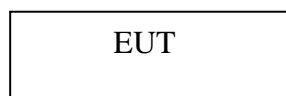
Transmitter : The transmitter has a built in antenna and solder on the

Antenna PCB

Current N/A

Consumption

2.2. Block Diagram of EUT Configuration



2.3. Support Equipment List

1.	--	----
2.	--	-----
3.	--	-----

2.4. Test Conditions

Temperature: 23~25

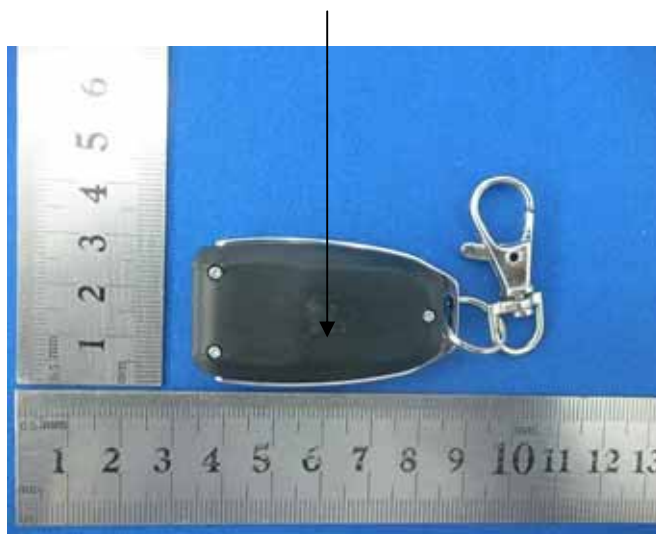
Relative Humidity: 55~63 %

3. FCC ID LABEL

FCC ID: W09XSJ-88X

Label Location on EUT

EUT Bottom View/ FCC ID Label Location



4. TEST RESULTS SUMMARY

FCC 15 Subpart C, Paragraph 15.231

Test Standards	Test Items	Test Results
§15.231 (b)	Radiated Emission	Pass
§15.231 (c)	20dB Band Width Testing	Pass
§15.231 (a1)	DEACTIVATION TESTING	Pass

Remark: “N/A” means “Not applicable.”

Modifications

No modification was made.

5. TEST EQUIPMENT USED

Equipment/Facilities	Manufacturer	Model #	Serial no.	Date of Cal.	Cal. Interval
Cable	Resenberger	N/A	NO.1	Mar 10 , 2008	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10 , 2008	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10 , 2008	1 Year
LISN	Rohde & Schwarz	ESH3-Z5	100305	Mar 10 , 2008	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10, 2008	1 Year
EMI Test Receiver	Rohde & Schwarz	ESP13	100180	Oct.18,2007	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSP40	100273	Sep.10,2008	1 Year
3m Semi-Anechoic Chamber	Albatross Projects	9m×6m×6m	N/A	Feb.20,2008	1 Year
Signal Generator	FLUKE	PM5418 + Y/C	LO747012	Feb.20,2008	1 Year
Signal Generator	FLUKE	PM5418TX	LO738007	Feb.20,2008	1 Year
Loop Antenna	SCHWARZBECK	FMZB1516	113	Jan.30,2008	1 Year
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	9161-4079	Sep.22,2007	1 Year
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-564	Sep.22,2007	1 Year
Ultra Broadband Antenna	Rohde & Schwarz	HL-562	100110	June.15,2008	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct.11,2007	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct.11,2007	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Power Meter	Rohde & Schwarz	NRVD	100041	Feb.20,2008	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb.20,2008	1 Year
Coaxial Cable with N-connectors	SCHWARZBECK	AK9515H	95549	Sep.22,2007	1 Year
Radio Communication Test Set	Rohde & Schwarz	CMS 54	846621/024	Feb.20,2008	1 Year
Modulation Analyzer	Hewlett-Packard	8901B	2303A00362	Feb.20,2008	1 Year
Absorbing clamp	Rohde & Schwarz	MDS-21	N/A	Oct.29,2007	1 Year

6. RADIATION EMISSIONS

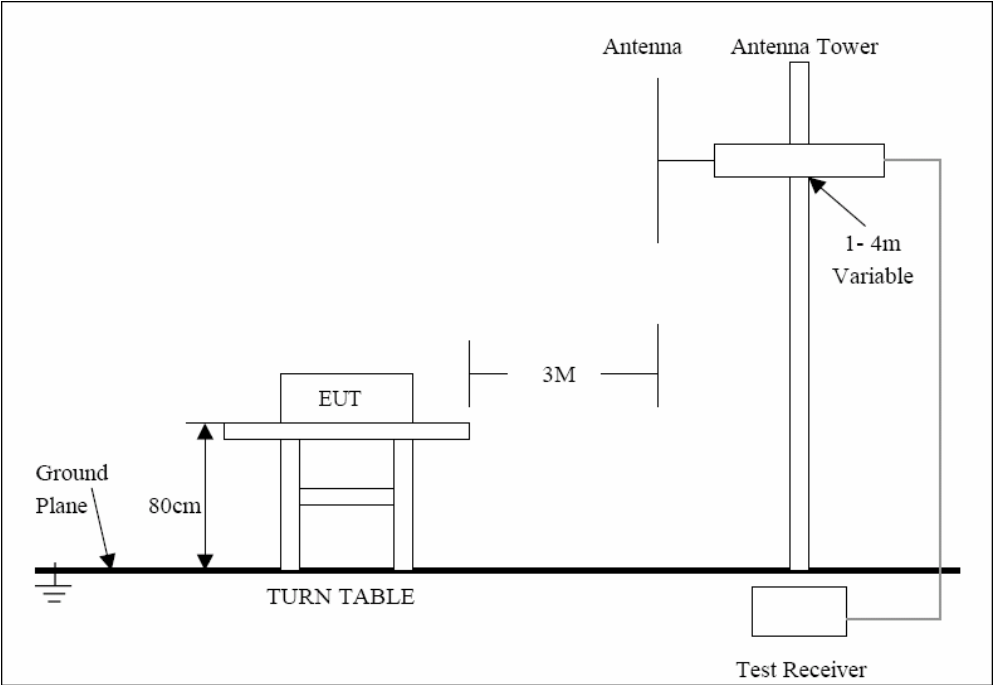
6.1. Test Equipment

Please refer to section 4 this report.

6.2. Test Procedure

The emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part Subpart C limits. through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit.

6.3. Radiated Test Setup



Setup below 3mMHz,refer to 7.3;For the accrual test configuration,pleas refer to the related items-photos of Testing.

6.4. Radiated Emission Limit

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 (Microvolts /meter)	Field Strength of spurious emissions ((Microvolts /meter)
40.66-40.70	2,250.....	225
70-130.....	1,250.....	125
130-174.....	1,250 to 3,370.....	125 to375
174-260.....	3,750	375
260-470.....	3,750 to12, 500.....	375 to 1,250
Above 470	12,500.....	1,250

Linear interpolations for frequency ranges 130 - 174 MHz and 260 - 470 MHz.
The above field strength limits are specified at a distance of 3-meters the tighter limits apply at the band edges.

6.5. Radiated Emission Test Result

Temperature: 25

Humidity: 56%RH

Test Result: PASS

Frequency (MHz)	Antenna Polarization	Emission Level (PK)(dBuV/m)	FCC 15 Subpart C Limit (AV)(dBuV/m)
433.92	V	61.80	80.8
433.92	H	65.32	80.8
867.64	V	43.28	60.8
867.64	H	44.89	60.8
1301.76	V	41.82	54
1301.76	H	42.56	54
1735.68	V	39.35	60.8
1735.68	H	41.23	60.8
2169.60	V	-----	60.8
2169.60	H	-----	60.8
2603.52	V	-----	60.8
2603.52	H	-----	60.8
3037.44	V	-----	60.8
3037.44	H	-----	60.8
3471.36	V	-----	60.8
3471.36	H	-----	60.8
3905.28	V	-----	54
3905.28	H	-----	54
4339.2	V	-----	54
4339.2	H	-----	54

Note:

-----means the emission is too low,more than 20dB from the limit.

7. 20B BANDWIDTH

7.1. Test Equipment

Please refer to Section 4 this report.

7.2. Test Procedure

- 1. The EUT was tested according C63.4-2003.The radiated test was performed at FCC Registration laboratory.
- 2. With the EUT’s antenna attached, the EUT’s 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT’s operation band.

7.3. FCC 15.231(c) 20B Bandwidth Limit

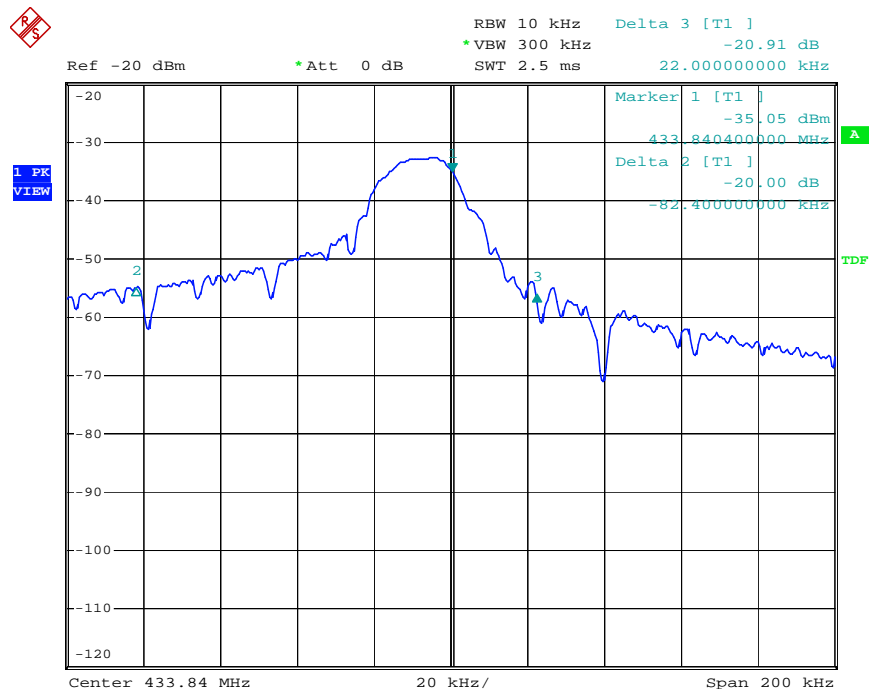
Per 15.231(c) ,The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

7.4. Test Result

Temperature:25Humidity:56%RH

Limit=Frequency×0.25%=433.9220×0.25%=1084.805 kHz

Test data:54.3KHzTest Result:PASS



Date: 16.SEP.2008 13:01:16

