

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT UNINTENTIONAL RADIATOR CERTIFICATION

Product Name : WEATHER STATION
Model Name : KW5012, 47003RX
FCC ID : X6I-5012
Trade Name : N/A
Report Number : SZEE100129262119-2
Date : Feb. 10, 2010

Standards	Results
<input checked="" type="checkbox"/> FCC Part15B: 2009	Pass

Prepared for:
CARRIN ELECTRONICS COMPANY LIMITED
UNIT 2105-2106, TOWER A, REGENT CENTRE, 63 WO YI HOP ROAD,
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N/A means not applicable

1. GENERAL INFORMATION

Applicant & Address: CARRIN ELECTRONICS COMPANY LIMITED
UNIT 2105-2106, TOWER A, REGENT CENTRE, 63 WO
YI HOP ROAD, KWAI CHUNG, HONG KONG

Manufacturer & Address: CARRIN ELECTRONICS COMPANY LIMITED
UNIT 2105-2106, TOWER A, REGENT CENTRE, 63 WO
YI HOP ROAD, KWAI CHUNG, HONG KONG

Equipment Under Test: WEATHER STATION

Model Name: KW5012, 47003RX

FCC ID: X6I-5012

RX Frequency: 433.92MHz

Trade Name: N/A

Serial Number: N/A

Technical Data: DC 3V

Model Deviation: The two models above are identical in accordance with
client's requirements. The test model is KW5012, and all
the test results are applicable to 47003RX.

Date of test: Jan. 05 to Feb. 10, 2010

Condition of Test Sample: Normal

The above equipment was tested by Centre Testing International Corporation for compliance with the requirements set forth in the FCC Part15B and the measurement procedure according to FCC requirements and ANSI C63.4.

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

Prepared by : Christy Chen
Christy Chen

Reviewed by : Louisa Lu
Louisa Lu

Approved by : Jim Zhang
Jim Zhang
Manager

Date : Feb. 10, 2010



2. TEST SUMMARY

Clause	Test Item	Rule	Result
5	Radiated Emission	FCC Part15.109	PASS

Note: The power supply of EUT is by battery.

3. MEASUREMENT UNCERTAINTY

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement items	Uncertainty
Radiated Emissions	4.6 dB

4. TEST EQUIPMENT

Equipment	Manufacturer	Model Number	Serial Number	Due Date
Spectrum Analyzer	Agilent	E4443A	MY45300910	01/19/2011
Biconilog Antenna	ETS-LINGREN	3142C	920250	01/19/2011
Multi device Controller	ETS-LINGREN	2090	00057230	01/19/2011
3M Chamber & Accessories	ETS-LINDGREN	FACT-3	N/A	01/19/2011

5. RADIATED EMISSIONS MEASUREMENT

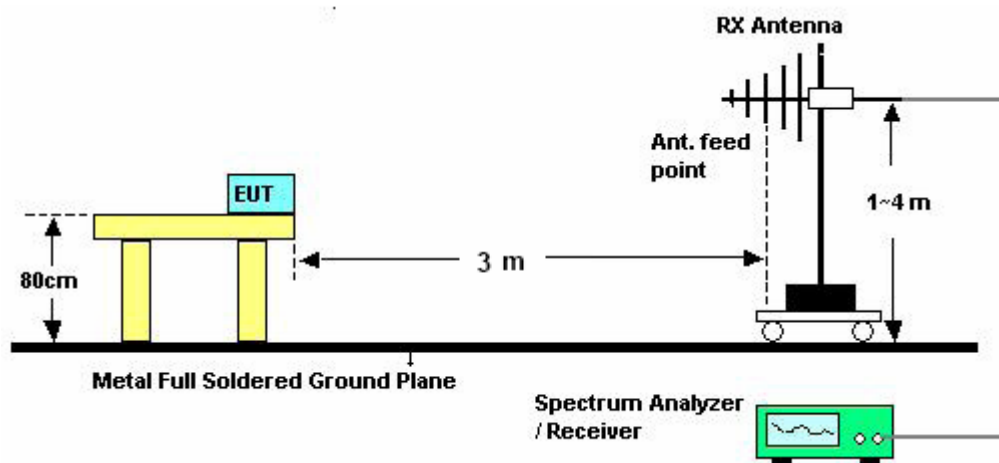
5.1 LIMITS

FCC Part15.109:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meter)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

5.2 BLOCK DIAGRAM OF TEST SETUP

For radiated emissions from 30 - 1000MHz



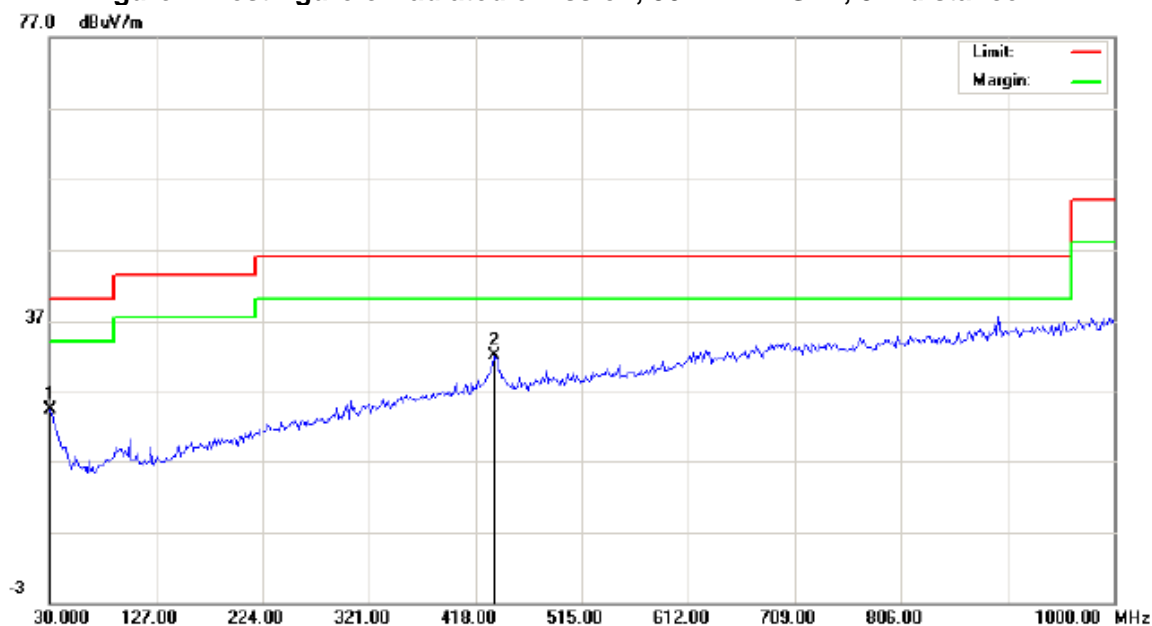
5.3 TEST PROCEDURE

- The EUT was placed on the top of a turntable 0.8 meters above the ground in the chamber, 3 meters away from the antenna (wideband antenna), which was mounted on the top of a variable-height antenna tower. The maximum values of the field strength are recorded by adjusting the polarizations of the test antenna and rotating the turntable.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test frequency analyzer system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

5.4 TEST RESULT

PASS

Figure 1: Test figure of radiated emission, 30MHz ~ 1GHz, 3m distance



Site site #1

Polarization: *Horizontal*

Temperature: 23

Limit: FCC Class B 3M Radiation

Power: DC 3V

Humidity: 60 %

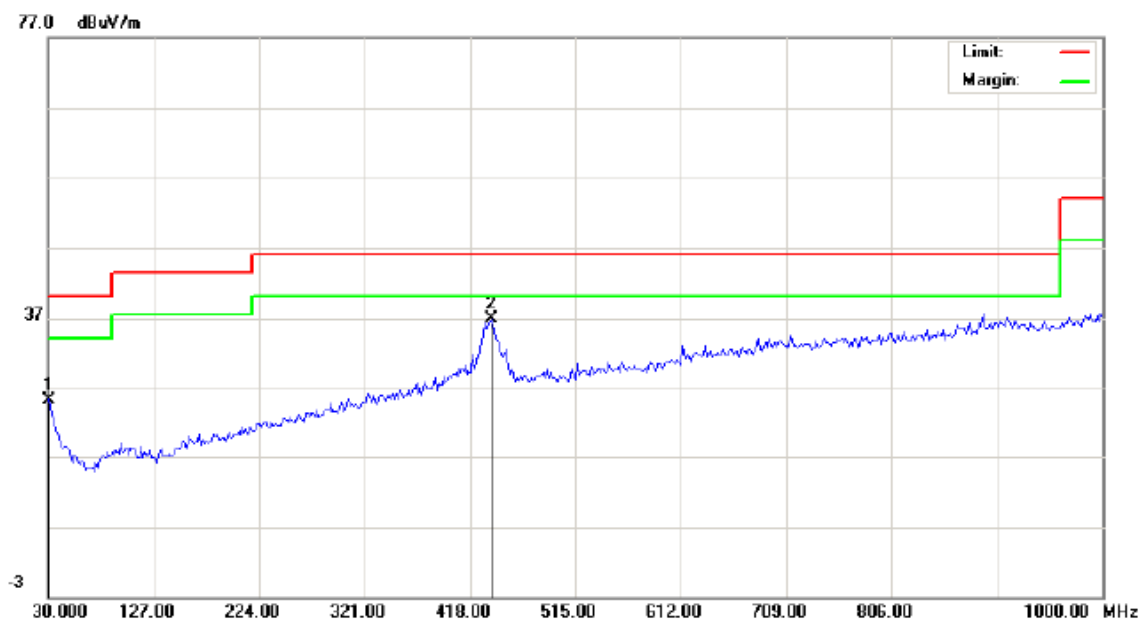
EUT: WEATHER STATION

M/N: KW5012

Mode: RX

Note:

No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	30.0000	6.88			17.63	24.51			40.00		-15.49		P	
2	435.7833	13.39			18.76	32.15			46.00		-13.85		P	



Site site #1

Polarization: **Vertical**

Temperature: 23

Limit: FCC Class B 3M Radiation

Power: DC 3V

Humidity: 60 %

EUT: WEATHER STATION

M/N: KW5012

Mode: RX

Note:

No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	30.0000	7.76			17.63	25.39			40.00		-14.61		P	
2	437.4000	18.02			18.79	36.81			46.00		-9.19		P	

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

TEST SETUP OF RADIATED EMISSION (30MHz -1GHz)



APPENDIX 2 EXTERNAL PHOTOGRAPHS OF EUT



View of external EUT-1



View of external EUT-2

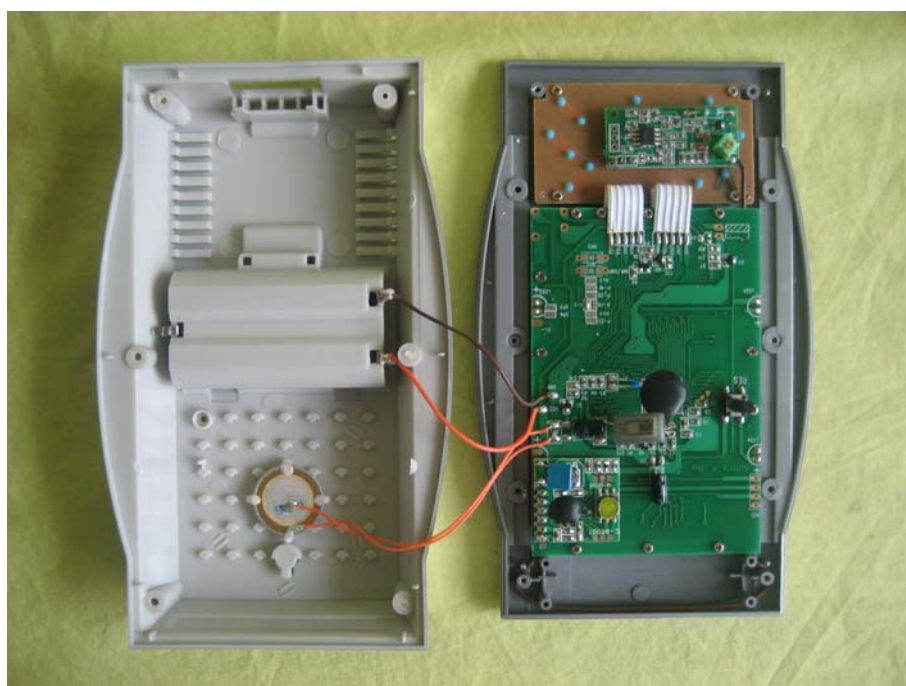


View of external EUT-3

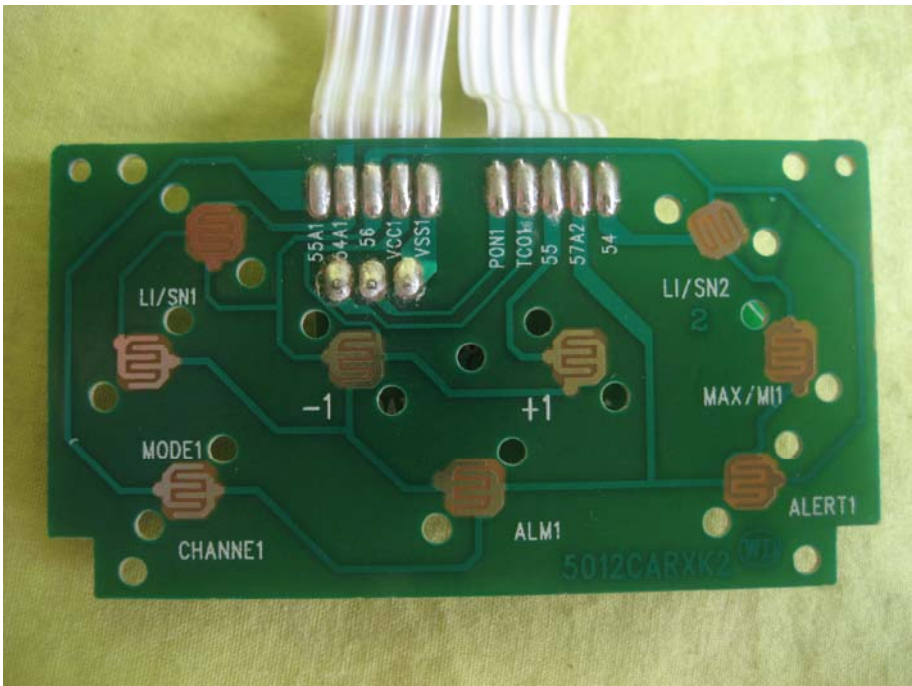
APPENDIX 3 INTERNAL PHOTOGRAPHS OF EUT



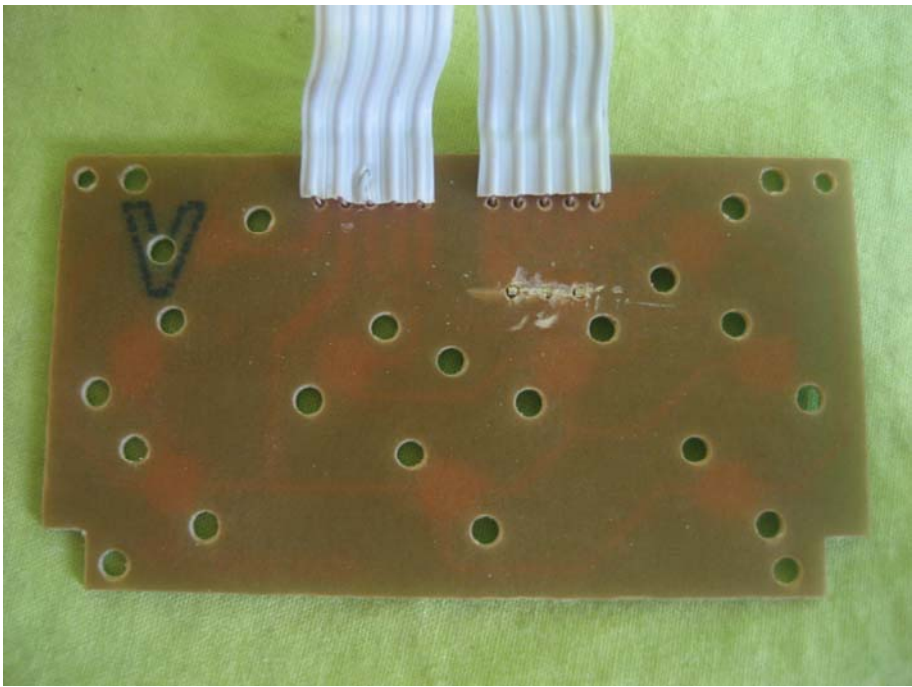
View of internal EUT-1



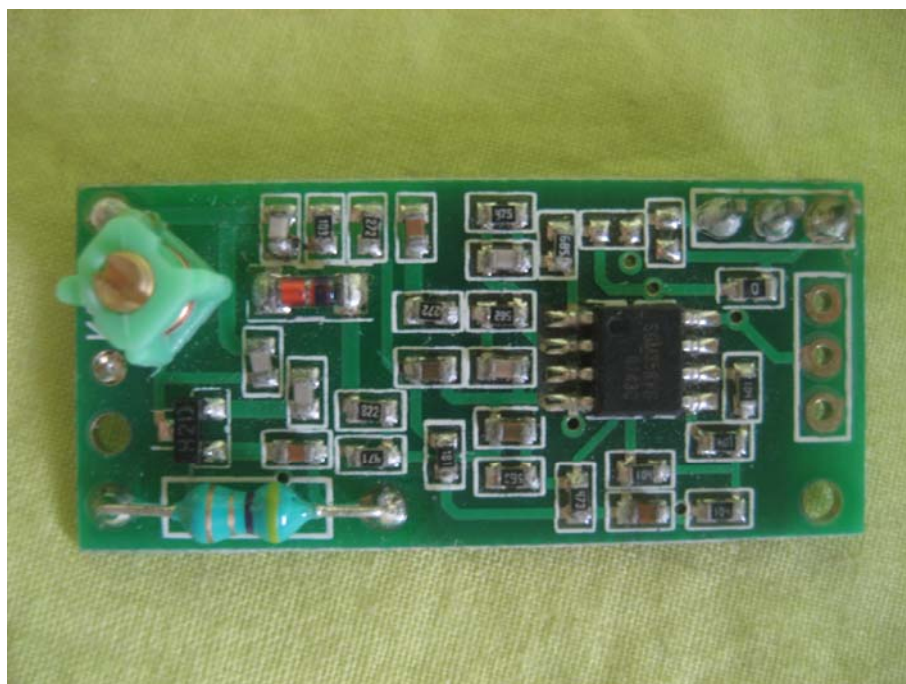
View of internal EUT-2



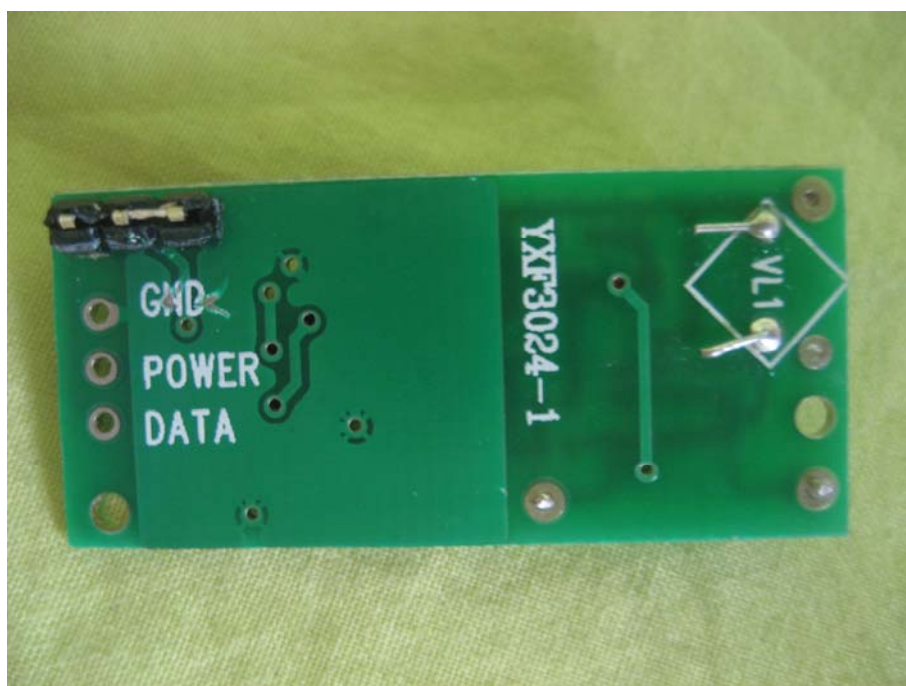
View of internal EUT-3



View of internal EUT-4



View of internal EUT-5



View of internal EUT-6

----- End of report -----