FCC RADIO TEST REPORT

according to

47 CFR FCC Part 15 Subpart C § 15.249

Equipment : RF Remote Control

Brand Name : YUIXX

Model No. : KWR101810/01B Filing Type : New Application

Applicant : Philips Electronics Singapore Ptd Ltd

Home Control, Test & Validation,

Philips Consumer Lifestyle, 620A Lorong 1 Toa Payoh,

Building TP1, Level 2 Singapore 319762

FCC ID : RCSKWR101810

Manufacturer : PT HonFoong Plastics Industries

Jalan Beringin Lot 327, 328, 329, 330 Jalan Gaharu Lot 232, 233, 247

Batamindo Industrial park

Mukakuning P.Batam, Indonesia

Received Date : Aug. 30, 2011 Final Test Date : Sep. 01, 2011

Statement

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.4-2003** and **47 CFR FCC Part 15 Subpart C**.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.





SPORTON International Inc.

No. 52 Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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| Issued Date | : Sep. 06, 2011 | FCC ID | : RCSKWR101810 |

History of This Test Report

Original Issue Date: Sep. 06, 2011

Report No.: FR180519

No additional attachment.

□ Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

FAX : 886-2-2696-2255 FCC ID : RCSKWR101810

CERTIFICATE OF COMPLIANCE

according to

47 CFR FCC Part 15 Subpart C § 15.249

Equipment: RF Remote Control

Brand Name: YUIXX

Model No. : KWR101810/01B

Applicant : Philips Electronics Singapore Ptd Ltd

Home Control, Test & Validation,

Philips Consumer Lifestyle, 620A Lorong 1 Toa Payoh,

Building TP1, Level 2 Singapore 319762

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Aug. 30, 2011 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

Wayne Hsu / Vice Manager

SPORTON International Inc.

No. 52 Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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1. SUMMARY OF THE TEST RESULT

	Applied Standard: 47 CFR FCC Part 15 Subpart C					
Part	Part Rule Section Description of Test			Under Limit		
3.1	15.207	AC Power Line Conducted Emissions	Not Applicable	-		
3.2	15.249(a)	Field Strength of Fundamental Emissions	Complies	5.09 dB		
3.3	15.215(c)	20dB Spectrum Bandwidth Complies		-		
3.4	15.249(a)/(d)	Radiated Emissions	Complies	5.37 dB		
3.5	15.249(d)	Band Edge Emissions Compl		7.22 dB		
3.6	15.203	Antenna Requirements	Complies	-		

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Field Strength of Fundamental Emissions	±0.8dB	Confidence levels of 95%
20dB Spectrum Bandwidth	±8.5×10 ⁻⁸	Confidence levels of 95%
Radiated Emissions (9kHz~30MHz)	±0.8dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±1.9dB	Confidence levels of 95%
Radiated / Band Edge Emissions (1GHz~18GHz)	±1.9dB	Confidence levels of 95%
Radiated Emissions (18GHz~40GHz)	±1.9dB	Confidence levels of 95%
Temperature	±0.7°C	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC / AC Power Source	±1.4%	Confidence levels of 95%

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2. GENERAL INFORMATION

2.1. Product Details

Items	Description	
Power Type	AAA batteries x3	
Modulation	O-QPSK	
Frequency Range	2425MHz ~ 2480MHz	
Channel Number	4	
Channel Band Width (99%)	2.64 MHz	
Max. Field Strength	88.91 dBuV/m at 3m (Average)	
Antenna	Internal Antenna	

2.2. Table for Test Modes

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Channel
Field Strength of Fundamental Emissions	СТХ	2425 MHz / 2450 MHz / 2480 MHz
20dB Spectrum Bandwidth	CIX	2423 WII 12 / 2430 WII 12 / 2400 WII 12
Radiated Emissions 9kHz~1GHz	Normal Mode	-
Radiated Emissions 1GHz~10 th Harmonic	CTX	2425 MHz / 2450 MHz / 2480 MHz
Band Edge Emissions	CTX	2425 MHz /2480 MHz

Note: CTX=continuously transmitting.

2.3. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	D400	QDS-BRCM1005-D
Mouse	iCooky	AMS0706W	DoC
USB Dongle	YUIXX	OVU104015/01	RCSOVU104015

2.4. EUT Operation during Test

An executive program, "EMCTEST.EXE" under WIN XP, which generates a complete line of continuously repeating "H" pattern was used as the test software.

The program was executed as follows:

- a. Turn on the power of all equipment.
- b. The NB reads the test program from the hard disk drive and runs it.
- c. The NB sends "H" messages to the panel and displays "H" patterns on the screen.

- Executed oneself test program to keep sending signals.

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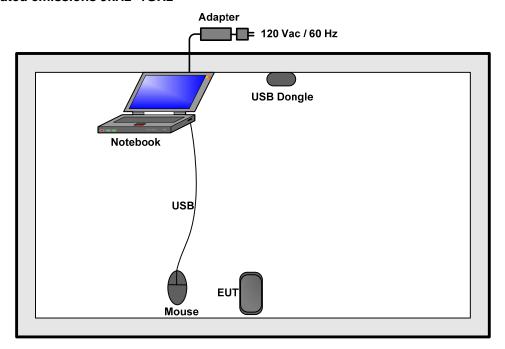
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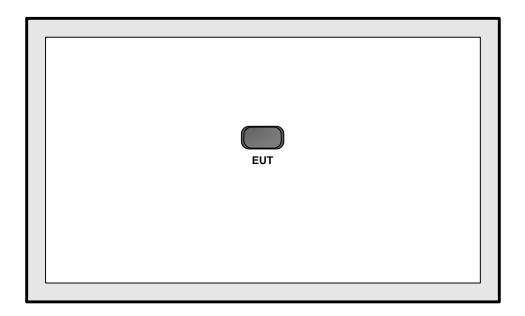
2.5. Test Configurations

2.5.1. Radiation Emissions Test Configuration

For radiated emissions 9kHz~1GHz



For radiated emissions above 1GHz



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3. TEST RESULT

3.1. AC Power Line Conducted Emissions Measurement

3.1.1. Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Class B

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

3.1.2. Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.1.3. Test Procedures

- 1. The EUT warm up about 15 minutes then start test.
- Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter
 far from the conducting wall of the shielding room and at least 80 centimeters from any other
 grounded conducting surface.
- 3. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- 4. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
- 5. The frequency range from 150 KHz to 30 MHz was searched.
- 6. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 7. The measurement has to be done between each power line and ground at the power terminal.

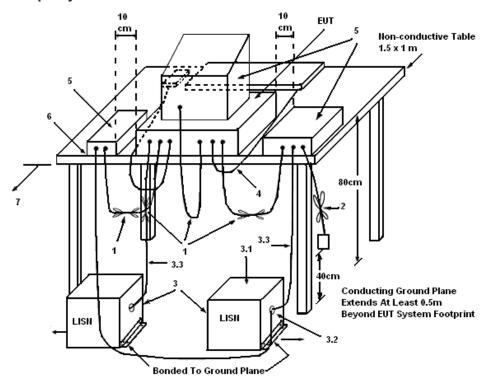
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3.1.4. Test Setup Layout



LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
- (3.1) All other equipment powered from additional LISN(s).
- (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
- (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

3.1.5. Test Deviation

There is no deviation with the original standard.

3.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

3.1.7. Results of AC Power Line Conducted Emissions Measurement

EUT is battery powered so that AC Power Line Conducted Emissions do not apply.

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3.2. Field Strength of Fundamental Emissions Measurement

3.2.1. Limit

The field strength of fundamental emissions within these bands specified at a distance of 3 meters (measurement instrumentation employing an average detector) shall comply with the following table.

Frequency Band (MHz)	Fundamental Emissions Limit (dBuV/m) at 3m
2400-2483.5	94

3.2.2. Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Power Meter Parameter	Setting	
RB	1 MHz Peak / 1MHz Average	
VB	1 MHz Peak / 10Hz Average	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

3.2.3. Test Procedures

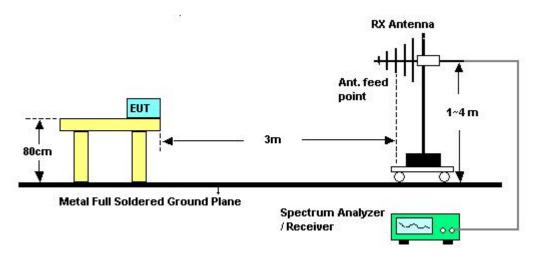
- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. For Fundamental emissions, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

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3.2.4. Test Setup Layout



3.2.5. Test Deviation

There is no deviation with the original standard.

3.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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3.2.7. Test Result of Field Strength of Fundamental Emissions

Final Test Date	Apr. 30, 2011	Test Site No.	03CH01-CB
Temperature	22 ℃	Humidity	65%
Test Engineer	Robert	Configurations	2425 MHz / 2450 MHz / 2480 MHz

2425 MHz

	· · · · · · —											
			Limit	0∨er	Read	Cable	Antenna	Preamp	T/Pos	A/Pos		
	Freq	Level	Line	Limit	Level	Loss	Factor	Factor			Remark	Pol/Phase
	MHz	dBu√/m	dBu\//m	dB	dBu√	dB	dB/m	dB	deg	cm		
1	2424.48	92.84	114.00	-21.16	62.36	2.23	28.25	0.00	129	100	Peak	VERTICAL
2	2424.98	88.31	94.00	-5.69	57.83	2.23	28.25	0.00	129	100	Average	VERTICAL
1	2424.99	86.15	94.00	-7.85	55.67	2.23	28.25	0.00	152	100	Average	HORIZONTAL
2	2425.49	90.55	114.00	-23.45	60.07	2.23	28.25	0.00	152	100	Peak	HORIZONTAL
2450) MHz											
			Limit	0ver	Read	Cable	Antenna	Preamp	T/Pos	A/Pos		
	Freq	Level	Line	Limit	Level	Loss	Factor	Factor			Remark	Pol/Phase
	MHz	dBu√/m	dBu\√/m	dB	dBu√	dB	dB/m	dB	deg	cm		
1	2449.49	90.44	114.00	-23.56	59.91	2.24	28.29	0.00	152	100	Peak	HORIZONTAL
2	2449.98	86.04	94.00	-7.96	55.51	2.24	28.29	0.00	152	100	Average	HORIZONTAL
1	2449.49	93.28	114.00	-20.72	62.75	2.24	28.29	0.00	168	100	Peak	VERTICAL
2	2449.98	88.91	94.00	-5.09	58.38	2.24	28.29	0.00	168	100	Average	VERTICAL

2480 MHz

	Freq	Level	Limit Line					Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBu\∕/m	dBu\//m	dB	dBu∀	dB	dB/m	dB	deg	cm		
1	2479.48	92.56	114.00	-21.44	61.93	2.26	28.37	0.00	68	100	Peak	VERTICAL
2	2479.98	88.22	94.00	-5.78	57.59	2.26	28.37	0.00	68	100	Average	VERTICAL
1	2479.99	84.09	94.00	-9.91	53.45	2.26	28.38	0.00	157	100	Average	HORIZONTAL
2	2480.52	88.48	114.00	-25.52	57.84	2.26	28.38	0.00	157	100	Peak	HORIZONTAL

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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3.3. 20dB Spectrum Bandwidth Measurement

3.3.1. Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band.

3.3.2. Measuring Instruments and Setting

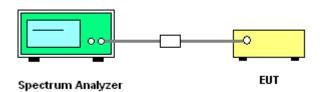
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

spectrum analyzer.							
Spectrum Parameters	Setting						
Attenuation	Auto						
Span Frequency	> 20dB Bandwidth						
RB	100 kHz						
VB	100 kHz						
Detector	Peak						
Trace	Max Hold						
Sweep Time	Auto						

3.3.3. Test Procedures

- The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.

3.3.4. Test Setup Layout



3.3.5. Test Deviation

There is no deviation with the original standard.

3.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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3.3.7. Test Result of 20dB Spectrum Bandwidth

Final Test Date	Sep. 01, 2011	Test Site No.	TH01-HY
Temperature	25 ℃	Humidity	60%
Test Engineer	Sean	Configurations	2425 MHz / 2450 MHz / 2480 MHz

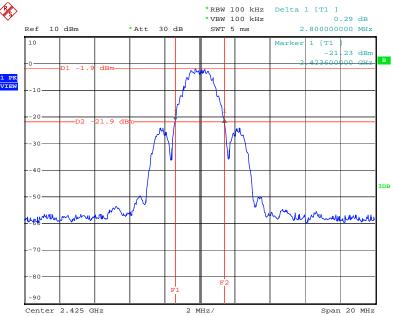
Frequency	20dB BW (MHz)	99% OBW (MHz)	Frequency range (MHz) f _L > 2400MHz	Frequency range (MHz) f _H < 2483MHz	Test Result
2425	2.80	2.64	2423.6800	-	Complies
2450	2.88	2.64	-	-	Complies
2480	2.84	2.64	-	2481.3200	Complies

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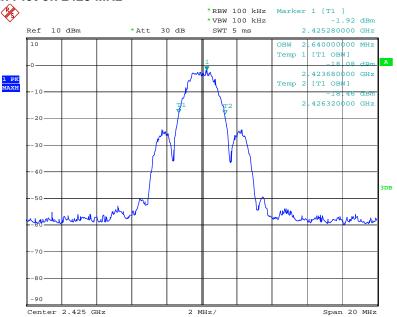
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20 dB Bandwidth Plot on 2425 MHz



Date: 1.SEP.2011 10:52:58

99% Bandwidth Plot on 2425 MHz



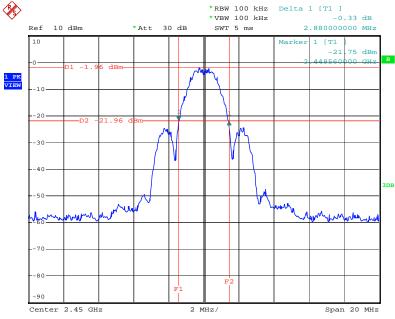
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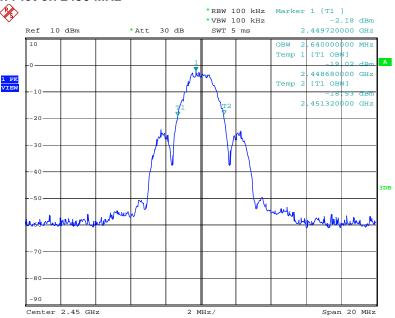
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20 dB Bandwidth Plot on 2450 MHz



Date: 1.SEP.2011 10:44:44

99% Bandwidth Plot on 2450 MHz



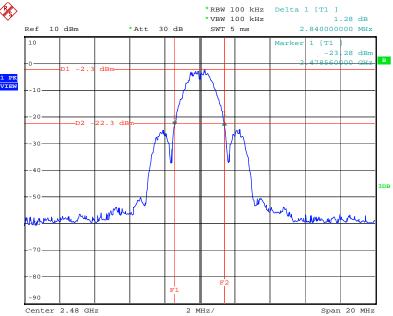
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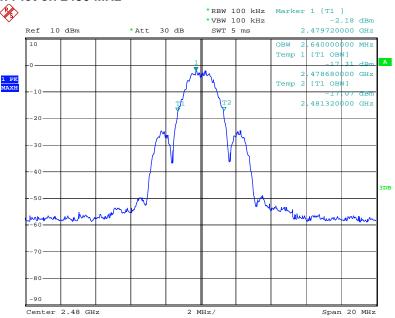
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20 dB Bandwidth Plot on 2480 MHz



Date: 1.SEP.2011 10:25:44

99% Bandwidth Plot on 2480 MHz



Date: 1.SEP.2011 10:19:48

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3.4. Radiated Emissions Measurement

3.4.1. Limit

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.4.2. Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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3.4.3. Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

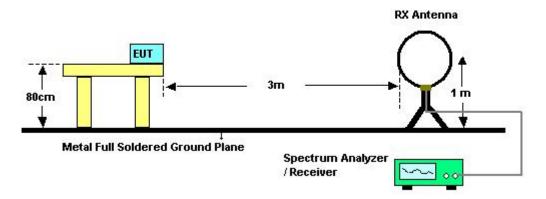
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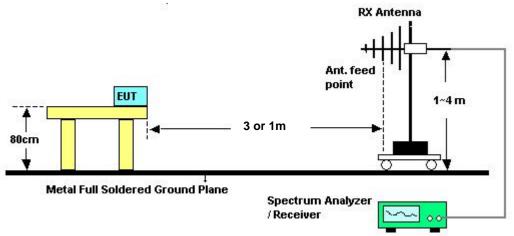
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3.4.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

3.4.5. Test Deviation

There is no deviation with the original standard.

3.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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3.4.7. Results of Radiated Emissions (9kHz~30MHz)

Final Test Date	Apr. 31, 2011	Test Site No.	03CH01-CB
Temperature	22 ℃	Humidity	65%
Test Engineer	Robert		

Freq. (MHz)	Level Over Limit (dBuV) (dB)		Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

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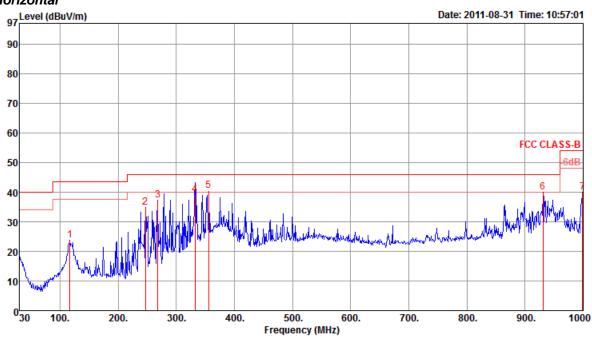
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3.4.8. Results of Radiated Emissions (30MHz~1GHz)

Final Test Date	Apr. 31, 2011	Test Site No.	03CH01-CB
Temperature	22 ℃	Humidity	65%
Test Engineer	Robert	Configurations	Normal Mode

Horizontal

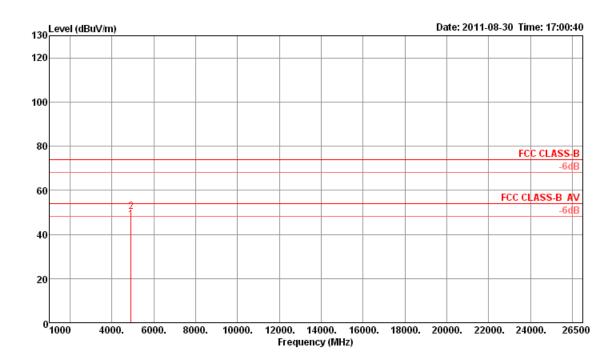


	Freq	Level	Limi t Line	Over Limit	Read Level	Cable Loss	PreampA Factor		T/Pos	A/Pos	Remark	Pol/Phase
	MHz	$\overline{dBuV/m}$	$\overline{dBuV/m}$	——dB	dBu∀	dB	dB	dB/m	deg	Cm		
1 2 3 4 a	117.30 247.28 268.62 332.64	23.76 34.91 37.24 39.19		-19.74 -11.09 -8.76 -6.81	37.13 47.01 48.53 49.02		27.52 27.01 26.96 27.12	12.53 12.55 13.19 14.59	281 281 281 281	125	Peak Peak Peak OP	HOR IZONTAL HOR IZONTAL HOR IZONTAL HOR IZONTAL
5 p	355.92	40.63	46.00	-5.37	49.98	2.82	27.29	15.12	281	125	Peak	HORIZONTAL
6	931.13	39.98	46.00	-6.02	41.34	4.76	27.27	21.15	281		Peak	HORIZONTAL
7	999.03	39.86	54.00	- 14 . 14	41.15	4.84	27.01	20.88	281	125	Peak	HORIZONTAL

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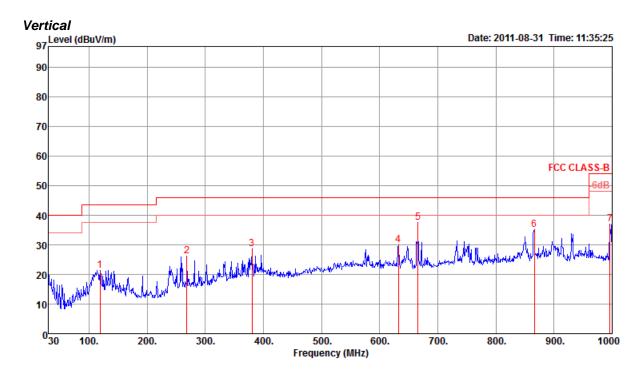


	Freq	Level		0∨er Limit					T/Pos	A/Pos	Remark	Pol/Phase
•	MHz	dBu∀/m	dBu∀/m	dB	dBu∀	dB	dB/m	dB	deg	cm		
1 2	4899.97 4900.01							35.02 35.02			Average Peak	HORIZONTAL HORIZONTAL

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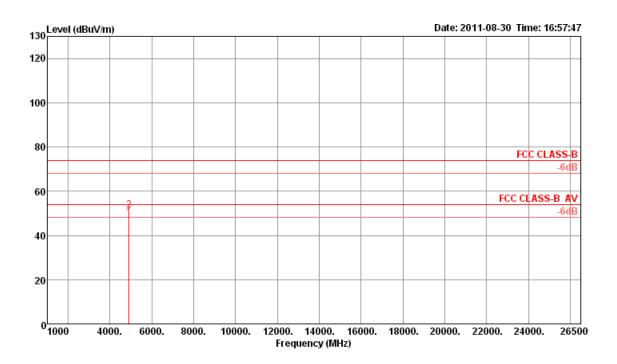


	Freq	Level	Limit Line	Over Limit			PreampA Factor			A/Pos	Remark	Pol/Phase
	MHz	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB	dBuV	dB	dB	dB/m	deg	Cm		
1 2 3 4 5 p 6 7	119.24 268.62 380.17 632.37 666.32 866.14 996.12	28.64 30.11 37.47 35.09	46.00 46.00 46.00 46.00 46.00	-22.05 -19.92 -17.36 -15.89 -8.53 -10.91 -17.11	37.37	2.91 3.84 3.99 4.48	26.96	12.58 13.19 15.78 19.69 19.45 21.12 20.98	360 360 360 360 360 360 360	100 100 100 100 100	Peak Peak Peak Peak Peak Peak Peak	VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL

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	Freq	Level	Limit Line					Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBu\∕/m	dBu√/m	dB	dBu∀	dB	dB/m	dB	deg	cm		
1	4899.97	48.13	54.00	-5.87	46.62	3.34	33.19	35.02	202	102	Average	VERTICAL
2	4900.02	51.48	74.00	-22.52	49.97	3.34	33.19	35.02	202	102	Peak	VERTICAL

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

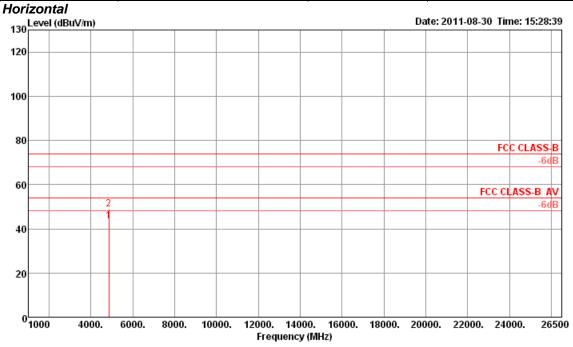
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3.4.9. Results for Radiated Emissions (1GHz~10th Harmonic)

Final Test Date	Apr. 30, 2011	Test Site No.	03CH01-CB
Temperature	22 ℃	Humidity	65%
Test Engineer	Robert	Configurations	2425 MHz

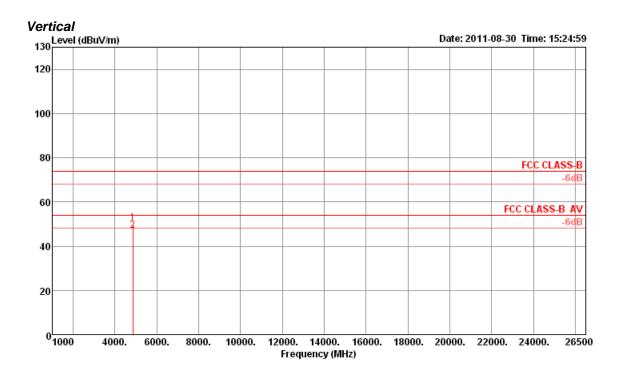


	Freq	Level						Preamp Factor		A/Pos	Remark	Pol/Phase
	MHz	dBu\//m	dBu√/m	dB	dBu∀	dB	dB/m	dB	deg	cm		
1	4849.95	43.29	54.00	-10.71	41.91	3.32	33.09				Average	HORIZONTAL
2	4850.05	49.03	74.00	-24.97	47.65	3.32	33.09	35.03	73	187	Peak	HORIZONTAL

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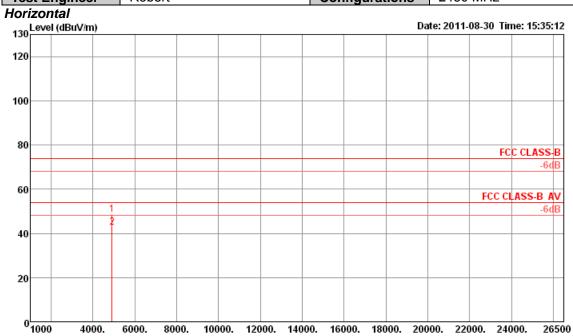
	Freq	Level		Over Limit						A/Pos	Remark	Pol/Phase
	MHz	dBu∀/m	dBu√/m	dB	dBu∀	dB	dB/m	dB	deg	cm		
1 2									194 194	105 105		VERTICAL VERTICAL

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Final Test Date	Apr. 30, 2011	Test Site No.	03CH01-CB
Temperature	22 ℃	Humidity	65%
Test Engineer	Robert	Configurations	2450 MHz



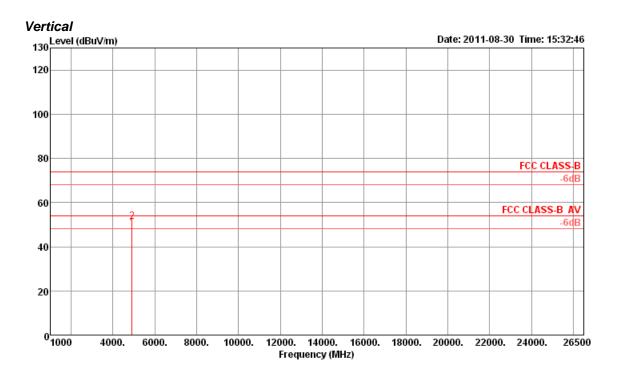
Frequency (MHz)

	Freq	Level	Limit					Preamp Factor		A/Pos	Remark	Pol/Phase
	MHz	dBu\∕/m	dBu\//m	dB	dBu∀	dB	dB/m	dB	deg	cm		
1 2	4899.90 4899.97								29 29		Peak Average	HORIZONTAL HORIZONTAL

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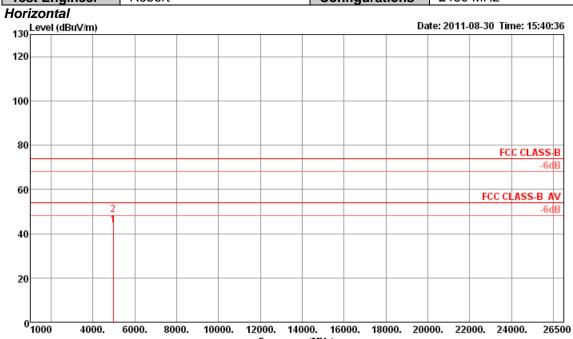
	Freq	Level						Preamp Factor		A/Pos Remark	Pol/Phase
	MHz	dBu\//m	dBu√/m	dB	dBu∨	dB	dB/m	dB	deg	cm	
1	4899.97	48.40	54.00	-5.60	46.89	3.34	33.19	35.02	199	137 Average	VERTICAL
2	4899.98	51.56	74.00	-22.44	50.05	3.34	33.19	35.02	199	137 Peak	VERTICAL

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Final Test Date	Apr. 30, 2011	Test Site No.	03CH01-CB
Temperature	22 ℃	Humidity	65%
Test Engineer	Robert	Configurations	2480 MHz



Frequency (MHz)

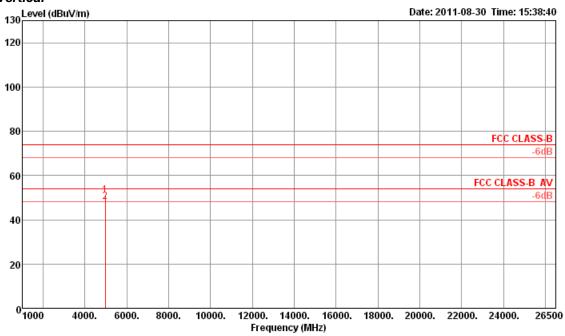
	Freq	Level	Limit					Preamp Factor	1/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBu\∕/m	dBu∀/m	dB	dBu∨	dB	dB/m	dB	deg	cm		
1	4959.97								64		Average	HORIZONTAL
2	4960.07	48.55	74.00	-25.45	46.86	3.37	33.33	35.01	64	162	Peak	HORIZONTAL

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	Freq	Level	Limit					Factor		A/Pos	Remark	Pol/Phase
,	MHz	dBu\//m	dBu∀/m	dB	dBu∖∕	dB	dB/m	dB	deg	cm		
1 2									203 203		Peak Average	VERTICAL VERTICAL

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3.5. Band Edge Emissions Measurement

3.5.1. Limit

Band edge emissions radiated outside of the specified frequency bands shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified

in section 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.5.2. Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

3.5.3. Test Procedures

- 1. The test procedure is the same as section 3.4.3; only the frequency range investigated is limited to 2MHz around band edges.
- 2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

3.5.4. Test Setup Layout

This test setup layout is the same as that shown in section 3.4.4.

3.5.5. Test Deviation

There is no deviation with the original standard.

3.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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3.5.7. Test Result of Band Edge

Final Test Date	Apr. 30, 2011	Test Site No.	03CH01-CB
Temperature	22 ℃	Humidity	65%
Test Engineer	Robert	Configurations	2425 MHz / 2480 MHz

2425 MHz

	Freq	Level						Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBu\//m	dBu√/m	dB	dBu∀	dB	dB/m	dB	deg	cm		
1	2386.20	53.74	74.00	-20.26	23.36	2.21	28.17	0.00	129	100	Peak	VERTICAL
2	2390.00	42.87	54.00	-11.13	12.48	2.22	28.17	0.00	129	100	Average	VERTICAL
1	2390.00	42.87	54.00	-11.13	12.48	2.22	28.17	0.00	152	100	Average	HORIZONTAL
2	2390.00	52.92	74.00	-21.08	22.53	2.22	28.17	0.00	152	100	Peak	HORIZONTAL

2480 MHz

	Freq	Level	Limit Line					Preamp Factor	T/Pos		Remark	Pol/Phase
	MHz	dBu\∕/m	dBu∀/m	dB	dBu∀	dB	dB/m	dB	deg	cm		
3	2483.50	45.34	54.00	-8.66	14.70	2.26	28.38	0.00	147	100 A	verage	HORIZONTAL
4	2484.30	54.55	74.00	-19.45	23.91	2.26	28.38	0.00	147	100 P	Peak	HORIZONTAL
3	2483.50	46.78	54.00	-7.22	16.15	2.26	28.37	0.00	69	100 /	Average	VERTICAL
4	2483.50	56.03	74.00	-17.97	25.40	2.26	28.37	0.00	69	100 F	Peak	VERTICAL

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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3.6. Antenna Requirements

3.6.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

3.6.2. Antenna Connector Construction

Please refer to section 2.1 in this test report; antenna connector complied with the requirements.

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4. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum analyzer	R&S	FSV30	101026	9KHz~30GHz	Jul. 27, 2011	Conducted (TH01-CB)
Thermo-Hygro Meter	N/A	HC 520	#1	15~70 degree	Nov. 02, 2010	Conducted (TH01-CB)
RF Power Divider	HP	11636A	00306	2GHz ~ 18GHz	N/A	Conducted (TH01-CB)
RF Power Splitter	Anaren	44100	1839	2GHz ~ 18GHz	N/A	Conducted (TH01-CB)
RF Power Splitter	Anaren	42100	17930	2GHz ~ 18GHz	N/A	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-7	-	1 GHz – 26.5 GHz	Nov. 17, 2010	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-8	-	1 GHz – 26.5 GHz	Nov. 17, 2010	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-9	-	1 GHz – 26.5 GHz	Nov. 17, 2010	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-10	-	1 GHz – 26.5 GHz	Nov. 17, 2010	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-11	-	1 GHz – 26.5 GHz	Nov. 17, 2010	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-12	-	1 GHz – 26.5 GHz	Nov. 17, 2010	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-13	-	1 GHz – 26.5 GHz	Nov. 17, 2010	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	0917223	300MHz~40GHz	Sep. 13, 2010	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 08, 2010	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

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RF Cable-high

RF Cable-high

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
BILOG Antenna	Schaffner	CBL6112D	22021	20MHz ~ 2GHz	Oct. 17, 2010	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz~18GHz	Nov. 22, 2010	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBEAK	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 08, 2010	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Nov. 17, 2010	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Nov. 23, 2010	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26.5GHz ~ 40GHz	Jul. 29, 2011	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSP	100304	9kHz ~ 40GHz	Nov. 22, 2010	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS 30	100355	9KHz ~ 2.75GHz	Mar. 22, 2011	Radiation (03CH01-CB)
Turn Table	INN CO	CO 2000	N/A	0 ~ 360 degree	N/A	Radiation (03CH01-CB)
Antenna Mast	INN CO	CO2000	N/A	1 m - 4 m	N/A	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz - 1 GHz	Nov. 17, 2010	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-1	N/A	1 GHz – 26.5 GHz	Nov. 17, 2010	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-2	N/A	1 GHz – 26.5 GHz	Nov. 17, 2010	Radiation (03CH01-CB)
	l		l			,

Report No. : FR180519

Radiation

(03CH01-CB) Radiation

(03CH01-CB)

Nov. 17, 2010

Nov. 17, 2010

Note: Calibration Interval of instruments listed above is one year.

High Cable-3

High Cable-4

Woken

Woken

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	Teseq	HLA 6120	24155	9 kHz - 30 MHz	Sep. 09, 2010*	Radiation (03CH01-CB)

N/A

N/A

1 GHz - 40 GHz

1 GHz - 40 GHz

Note: Calibration Interval of instruments listed above is two year.

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5. TEST LOCATION

SHIJR	ADD	:	6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 728, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

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6. TAF CERTIFICATE OF ACCREDITATION



Certificate No.: L1190-110111

財團法人全國認證基金會

Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.

EMC & Wireless Communications Laboratory

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2005

Accreditation Number : 1190

Originally Accredited : December 15, 2003

Effective Period : January 10, 2010 to January 09, 2013

Accredited Scope : Testing Field, see described in the Appendix

Specific Accreditation : Accreditation Program for Designated Testing Laboratory

Program for Commodities Inspection

Accreditation Program for Telecommunication Equipment

Testing Laboratory Accreditation Program for BSMI Mutual Recognition

Arrangment with Foreign Authorities

Jay-San Chen

President, Taiwan Accreditation Foundation

Date: January 11, 2011

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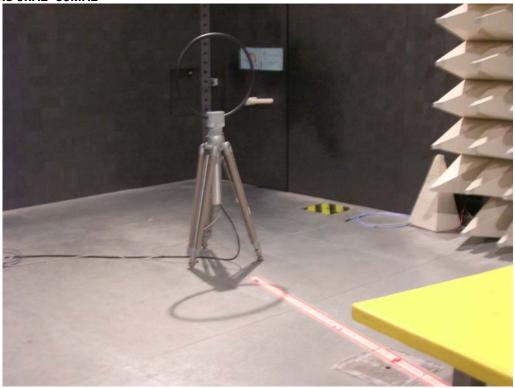
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 : RCSKWR101810

Appendix A. Test Photos

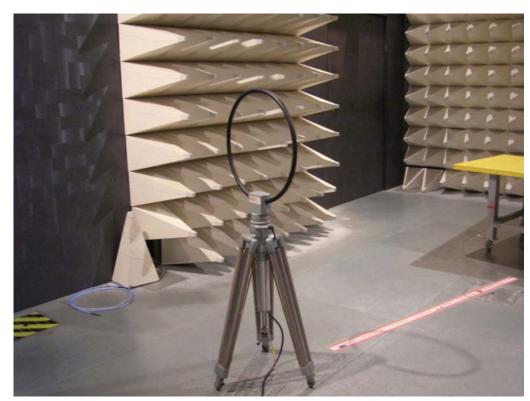
Page No. : A1 of A4 FCC ID : RCSKWR101810

1 Photographs of Radiated Emissions Test Configuration

For radiated emissions 9kHz~30MHz



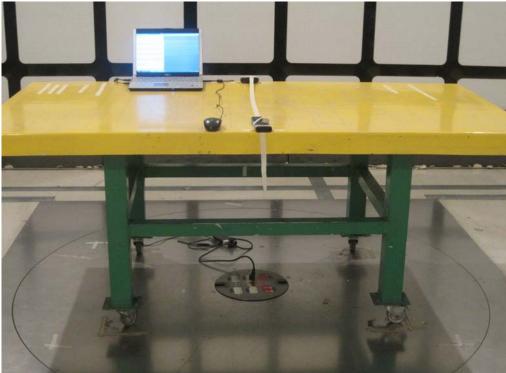
FRONT VIEW



REAR VIEW

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For radiated emissions 30MHz~1GHz



FRONT VIEW



REAR VIEW

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For radiated emissions above 1GHz



FRONT VIEW



REAR VIEW

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APPENDIX B. Photographs of EUT



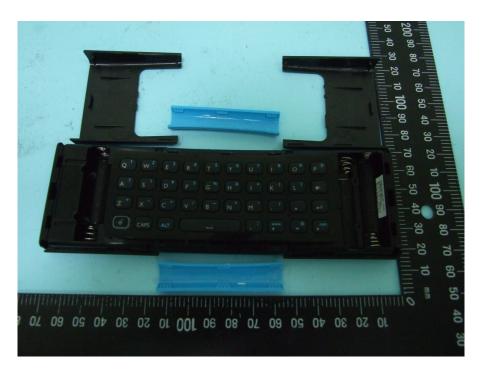


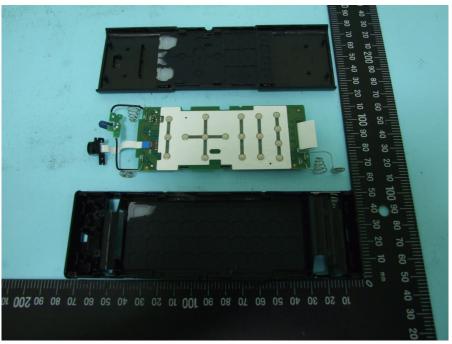
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 PAGE NUMBER : B1 OF B9
ISSUED DATE : Sep. 06, 2011



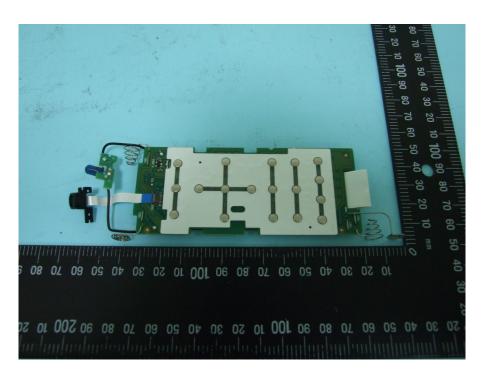


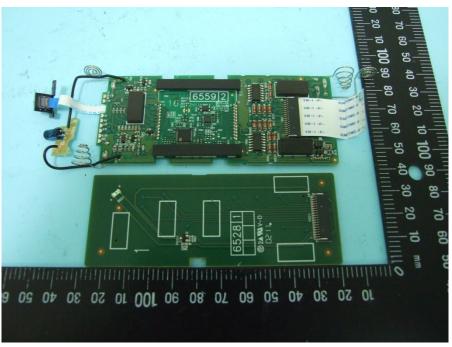
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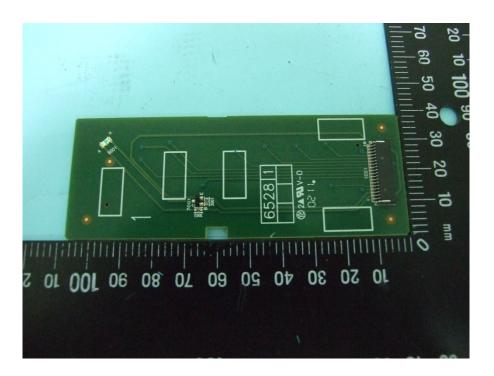


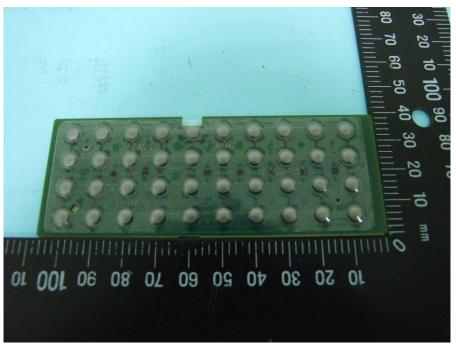
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 PAGE NUMBER : B3 OF B9
ISSUED DATE : Sep. 06, 2011



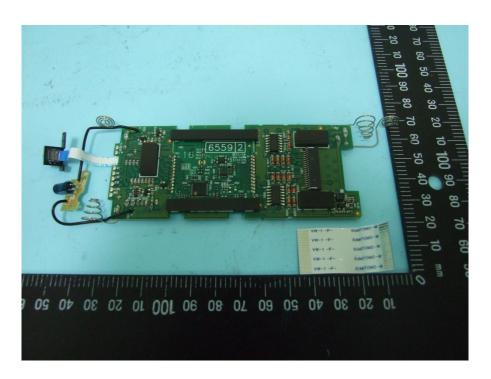


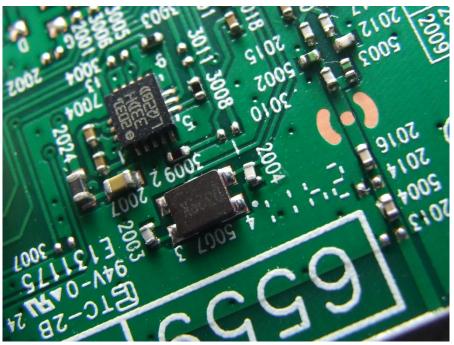
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ISSUED DATE : Sep. 06, 2011



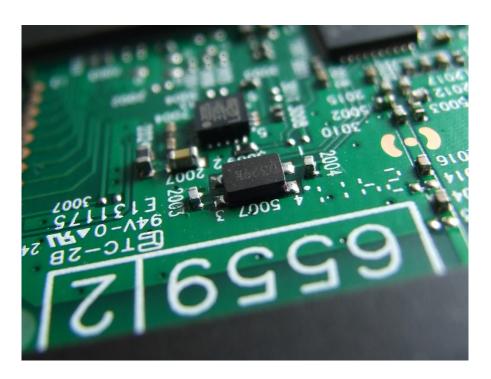


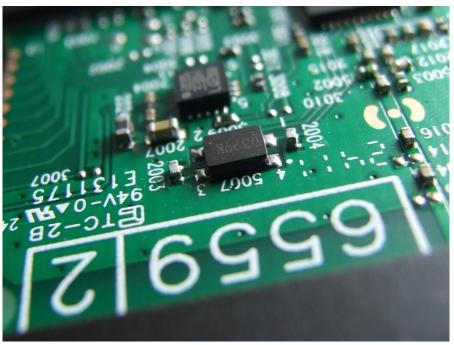
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ISSUED DATE : Sep. 06, 2011





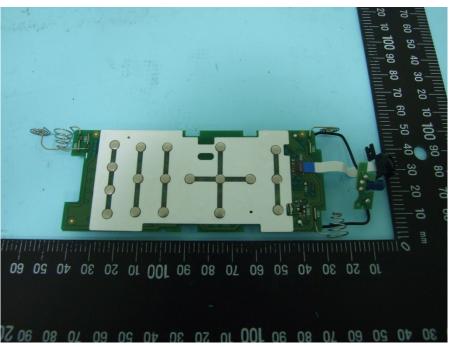
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ISSUED DATE : Sep. 06, 2011



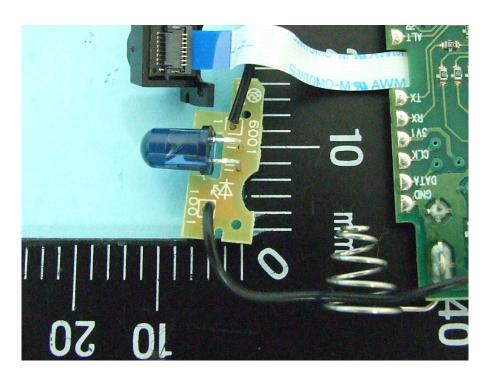


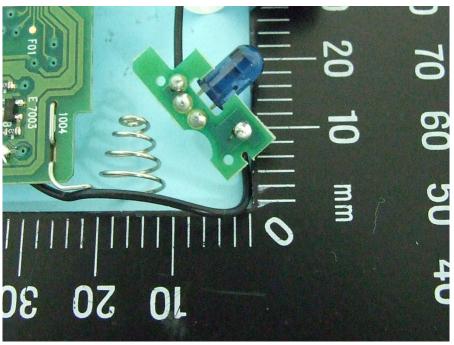
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255





TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 PAGE NUMBER : B8 OF B9
ISSUED DATE : Sep. 06, 2011





TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 PAGE NUMBER : B9 OF B9
ISSUED DATE : Sep. 06, 2011