FCC RADIO TEST REPORT

According to

47 CFR FCC Part 15 Subpart C § 15.249

Equipment : RF Dongle Brand Name : SUYIN, ACER

Model No. : MagicPad, RMTP-PR-FC1,

RMTP-PR-WS1, RMTP-PR-GN1

Filing Type : New Application

Applicant : SUYIN OPTRONICS CORP
No. 377, Fude 1ST RD., Xizhi
City, Taipei County 221, Taiwan

FCC ID : YSXRMTP-PR-01-D

Received Date : Mar. 16, 2012 Final Test Date : May 21, 2012

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 C63.4-2009 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 : Jun. 06, 2012 FCC ID : YSXRMTP-PR-01-D

History of This Test Report

Original Issue Date: Jun. 06, 2012

Report No.: FR242633

No additional attachment.

□ Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

CERTIFICATE OF COMPLIANCE

According to

47 CFR FCC Part 15 Subpart C § 15.249

Equipment : RF Dongle

Brand Name : SUYIN, ACER

Model No. : MagicPad, RMTP-PR-FC1,

RMTP-PR-WS1, RMTP-PR-GN1

Applicant : SUYIN OPTRONICS CORP

No. 377, Fude 1ST RD., Xizhi City,

Taipei County 221, Taiwan

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Mar. 16, 2012 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 / Assistant 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	Rule Section	Result	Under Limit					
3.1	15.207	AC Power Line Conducted Emissions	Complies	25.05 dB				
3.2	15.249(a)	Field Strength of Fundamental Emissions	Complies	15.95 dB				
3.3	15.215(c)	20dB Spectrum Bandwidth	Complies	-				
3.4	15.249(a)/(d)	Radiated Emissions	Complies	3.15 dB				
3.5	15.249(d)	Band Edge Emissions	Complies	2.91 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	From host
Modulation	GFSK
Frequency Range	2407.5 ~ 2470MHz
Channel Number	25
Channel Band Width (99%)	1.67 MHz
Max. Field Strength	78.05 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
AC Power Line Conducted Emissions	Normal Mode	-
Field Strength of Fundamental Emissions	CTX	2407.5 MHz / 2440 MHz / 2470 MHz
20dB Spectrum Bandwidth		
Radiated Emissions 9kHz~1GHz	Normal Mode	-
Radiated Emissions 1GHz~10 th Harmonic	CTX	2407.5 MHz / 2440 MHz / 2470 MHz
Band Edge Emissions	CTX	2407.5 MHz / 2440 MHz

Note: CTX=continuously transmitting.

2.3. Table for Testing Locations

Test Site No.	Site Category	Location		
CO04-HY	Conduction	Hwa Ya		
TH01-HY	OVEN Room	Hwa Ya		
03CH02-HY	SAC	Hwa Ya		

Semi Anechoic Chamber (SAC).

2.4. Table for Supporting Units

Support Unit	Brand	Model	FCC ID	
Notebook	DELL	E5520	DoC	
iPod	APPLE	A1285	N/A	
(USB) Mouse	Microsoft	1004	N/A	
Media Remote	CLIVIN			
(Client Provide)	SUYIN	-	-	

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2.5. EUT Operation during Test

An executive program, "EMITEST.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:

Turn on the power of all equipment.

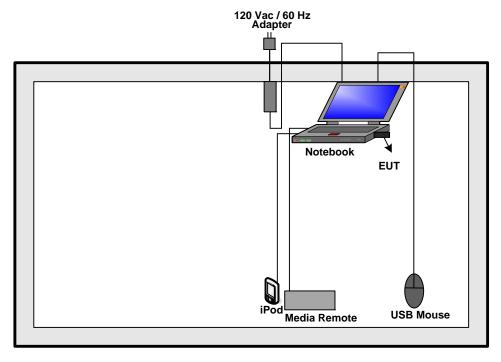
- a. The NB reads the test program from the hard disk drive and runs it.
- b. The NB sends "H" messages to the monitor and the displays "H" patterns on the screen.

At the same time, the following program was executed:

- Executed "Winthrax.exe" to read and write data from iPod.

2.6. Test Configurations

For conducted emissions

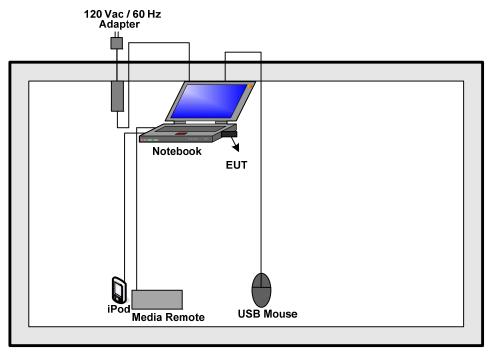


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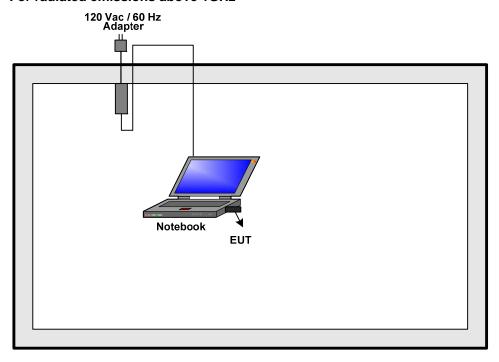
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For radiated emissions 9kHz~1GHz



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 was warmed up for 15 minutes before testing started.
- 2. 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.
- 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.

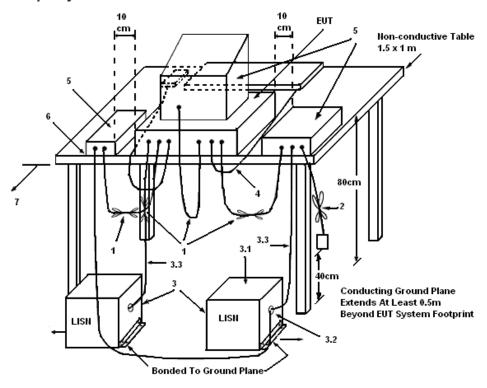
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3.1.4. Test Setup Layout



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.

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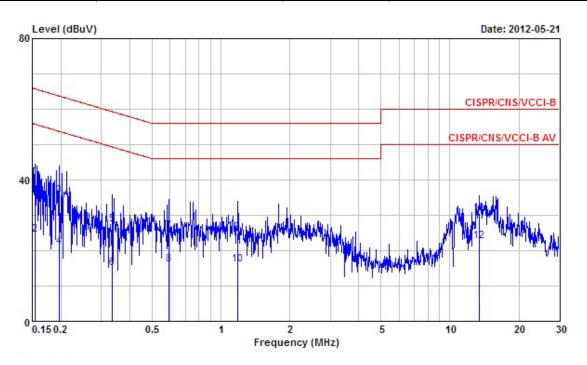
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3.1.7. Results of AC Power Line Conducted Emissions Measurement

Final Test Date	May 21, 2012	Test Site No.	CO04-HY
Temperature	24 ℃	Humidity 45%	
Test Engineer	Sam	Configuration	Normal Mode

Line



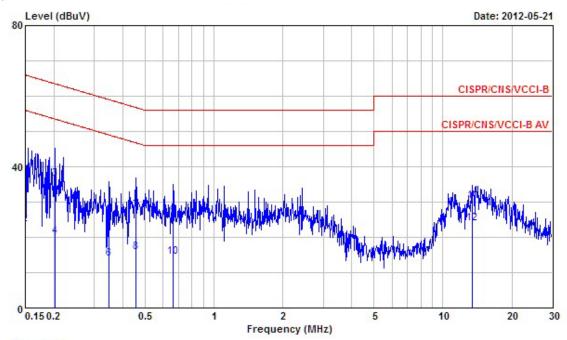
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	@0.1540270	40.73	-25.05	65.78	40.33	0.30	0.10	QP
2	0.1540270	24.47	-31.31	55.78	24.07	0.30	0.10	Average
3	0.1965370	35.61	-28.15	63.76	35.21	0.30	0.10	QP
4	0.1965370	21.09	-32.67	53.76	20.69	0.30	0.10	Average
5	0.3356200	27.43	-31.88	59.31	27.03	0.30	0.10	QP
6	0.3356200	14.93	-34.38	49.31	14.53	0.30	0.10	Average
7	0.5916410	25.46	-30.54	56.00	25.07	0.29	0.10	QP
8	0.5916410	15.95	-30.05	46.00	15.56	0.29	0.10	Average
9	1.180	25.04	-30.96	56.00	24.67	0.29	0.08	QP
10	1.180	16.16	-29.84	46.00	15.79	0.29	0.08	Average
11	13.410	30.44	-29.56	60.00	29.56	0.51	0.37	QP
12	13.410	22.60	-27.40	50.00	21.72	0.51	0.37	Average

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Neutral



Freq	Level	Limit	Line	Read Level	Factor	Loss	Remark
MHz	dBuV	dB	dBuV	dBuV	dB	dB	
0.1500000	39.24	-26.76	66.00	38.87	0.27	0.10	QP
0.1500000	23.78	-32.22	56.00	23.41	0.27	0.10	Average
0.2028850	36.58	-26.91	63.49	36.23	0.25	0.10	QP
0.2028850	20.28	-33.21	53.49	19.93	0.25	0.10	Average
0.3464610	25.95	-33.10	59.05	25.61	0.24	0.10	QP
0.3464610	13.86	-35.19	49.05	13.52	0.24	0.10	Average
0.4539490	27.65	-29.15	56.80	27.31	0.24	0.10	QP
0.4539490	15.72	-31.08	46.80	15.38	0.24	0.10	Average
0.6612710	25.93	-30.07	56.00	25.58	0.25	0.10	QP
0.6612710	14.49	-31.51	46.00	14.14	0.25	0.10	Average
13.480	30.26	-29.74	60.00	29.46	0.43	0.37	QP
13.480	23.95	-26.05	50.00	23.15	0.43	0.37	Average
	MHz 0.1500000 0.1500000 0.2028850 0.2028850 0.3464610 0.3464610 0.4539490 0.4539490 0.6612710 0.6612710 13.480	MHz dBuV 0.1500000 39.24 0.1500000 23.78 0.2028850 36.58 0.2028850 20.28 0.3464610 25.95 0.3464610 13.86 0.4539490 27.65 0.4539490 15.72 0.6612710 25.93 0.6612710 14.49 13.480 30.26	Freq Level Limit MHz dBuV dB 0.1500000 39.24 -26.76 0.1500000 23.78 -32.22 0.2028850 36.58 -26.91 0.3464610 25.95 -33.10 0.3464610 13.86 -35.19 0.4539490 27.65 -29.15 0.4539490 15.72 -31.08 0.6612710 25.93 -30.07 0.6612710 14.49 -31.51 13.480 30.26 -29.74	Freq Level Limit Line MHz dBuV dB dBuV 0.1500000 39.24 -26.76 66.00 0.1500000 23.78 -32.22 56.00 0.2028850 36.58 -26.91 63.49 0.3464610 25.95 -33.10 59.05 0.3464610 13.86 -35.19 49.05 0.4539490 27.65 -29.15 56.80 0.4539490 15.72 -31.08 46.80 0.6612710 25.93 -30.07 56.00 0.6612710 14.49 -31.51 46.00 13.480 30.26 -29.74 60.00	Freq Level Limit Line Level MHz dBuV dB dBuV dBuV 0.1500000 39.24 -26.76 66.00 38.87 0.1500000 23.78 -32.22 56.00 23.41 0.2028850 36.58 -26.91 63.49 36.23 0.2028850 20.28 -33.21 53.49 19.93 0.3464610 25.95 -33.10 59.05 25.61 0.34539490 27.65 -29.15 56.80 27.31 0.4539490 15.72 -31.08 46.80 15.38 0.6612710 25.93 -30.07 56.00 25.58 0.6612710 14.49 -31.51 46.00 14.14 13.480 30.26 -29.74 60.00 29.46	Freq Level Limit Line Level Factor MHz dBuV dB dBuV dBuV dB dB dBuV dBuV dB dB 0.27 dB 0.27 0.27 0.200000 23.78 -32.22 56.00 23.41 0.27 0.2028850 36.58 -26.91 63.49 36.23 0.25 0.2028850 20.28 -33.21 53.49 19.93 0.25 0.3464610 25.95 -33.10 59.05 25.61 0.24 0.3464610 13.86 -35.19 49.05 13.52 0.24 0.4539490 27.65 -29.15 56.80 27.31 0.24 0.4539490 15.72 -31.08 46.80 15.38 0.24 0.6612710 25.93 -30.07 56.00 25.58 0.25 0.6612710 14.49 -31.51 46.00 14.14 0.25 13.480 30.26 -29.74 60.00 29.46 0.43	Freq Level Limit Line Level Factor Loss MHz dBuV dB dBuV dBuV dB dB 0.1500000 39.24 -26.76 66.00 38.87 0.27 0.10 0.1500000 23.78 -32.22 56.00 23.41 0.27 0.10 0.2028850 36.58 -26.91 63.49 36.23 0.25 0.10 0.3464610 25.95 -33.10 59.05 25.61 0.24 0.10 0.3464610 13.86 -35.19 49.05 13.52 0.24 0.10 0.4539490 27.65 -29.15 56.80 27.31 0.24 0.10 0.4539490 15.72 -31.08 46.80 15.38 0.24 0.10 0.6612710 25.93 -30.07 56.00 25.58 0.25 0.10 0.6612710 14.49 -31.51 46.00 14.14 0.25 0.10 13.480 30.26

Note:

Level = Read Level + LISN Factor + Cable Loss.

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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

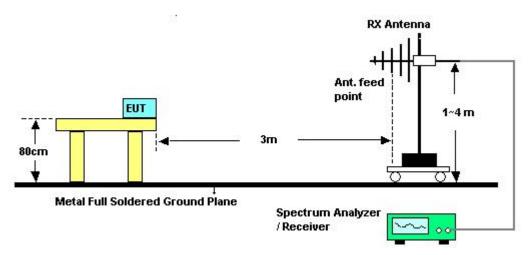
- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 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. 24, 2012	Test Site No.	03CH02-HY
Temperature	24.4 ℃	Humidity	60%
Test Engineer	Hsiao	Configurations	2407.5 MHz / 2440 MHz / 2470 MHz

2407.5 MHz Vertical

			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	- dB	dBuV/m	dBuV	dB/m	dB	dB	3	cm.	deg
3	2407.090	100.20	-13.80	114.00	65.32	31.86	3.02	0.00	Peak	000000	1000
3	2407.090	76.97	-17.03	94.00	42.09	31.86	3.02	0.00	Average		

2440 MHz Vertical

			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	- dB	dBuV/m	dBuV	dB/m	dВ	dB	5	cm	deg
1	2439.770	101.90	-12.10	114.00	66.86	31.99	3.05	0.00	Peak		
1	2439.770	78.05	-15.95	94.00	43.01	31.99	3.05	0.00	Average	7441	

2470 MHz Vertical

			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	· · · · · · · ·	cm	deg
1	2469.980	101.77	-12.23	114.00	66.63	32.06	3.08	0.00	Peak		
1	2469.980	78.05	-15.95	94.00	42.91	32.06	3.08	0.00	Average		

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

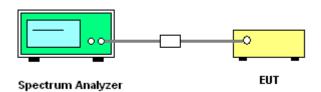
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 20dB Bandwidth
RB	100 kHz
VB	300 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 300 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	May 11, 2012	Test Site No.	TH01-HY
Temperature	28.4℃	Humidity	32%
Test Engineer	Shiming	Configurations	2407.5 MHz / 2440 MHz / 2470 MHz

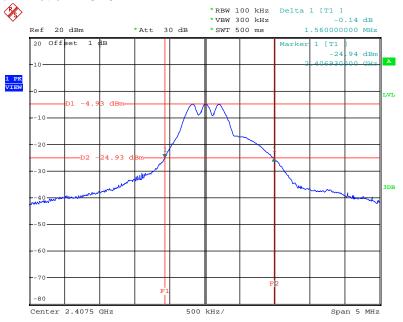
Frequency	20dB BW (MHz)	99% OBW (MHz)	Frequency range (MHz) f _L > 2400MHz	Frequency range (MHz) f _H < 2483MHz	Test Result
2407.5 MHz	1.56	1.48	2406.9300	-	Complies
2440 MHz	1.65	1.58	-	-	Complies
2470 MHz	1.79	1.67	-	2471.1300	Complies

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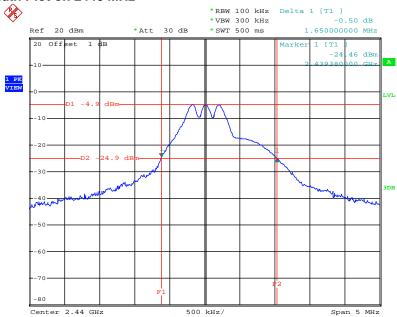
 FAX: 886-3-327-0973
 FCC ID
 : YSXRMTP-PR-01-D

20 dB Bandwidth Plot on 2407.5 MHz



Date: 11.MAY.2012 23:15:24

20 dB Bandwidth Plot on 2440 MHz



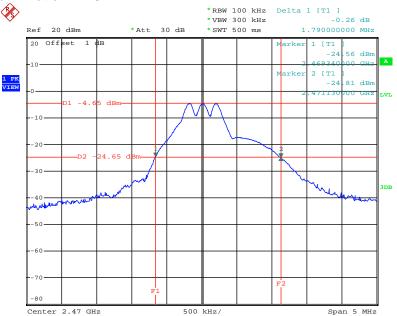
Date: 11.MAY.2012 23:25:49

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20 dB Bandwidth Plot on 2470 MHz



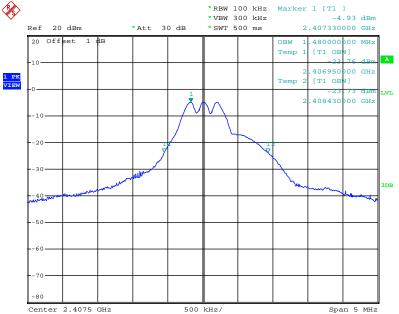
Date: 11.MAY.2012 23:30:55

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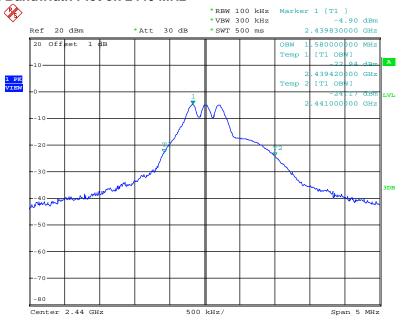
 FAX: 886-3-327-0973
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99%Occupied Bandwidth Plot on 2407.5 MHz



Date: 11.MAY.2012 23:16:53

99%Occupied Bandwidth Plot on 2440 MHz



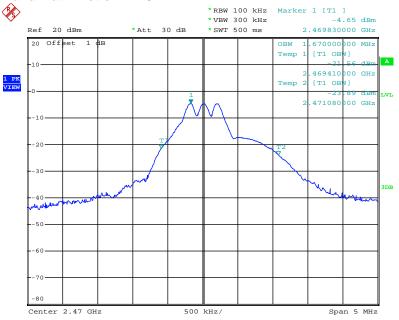
Date: 11.MAY.2012 23:26:18

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99%Occupied Bandwidth Plot on 2470 MHz



Date: 11.MAY.2012 23:31:15

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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.

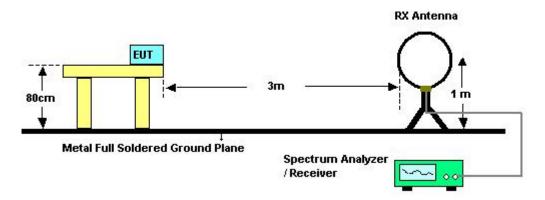
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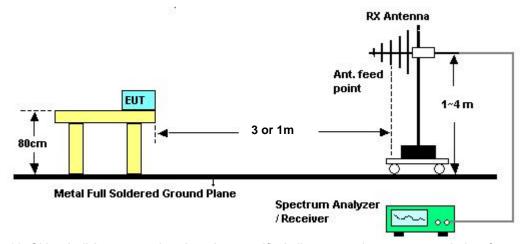
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3.4.4. Test Setup Layout

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 form 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	Mar 16, 2012	Test Site No.	03CH02-HY
Temperature	24.4℃	Humidity	60%
Test Engineer	Hsiao		

Freq. (MHz)	Level (dBuV)	Over Limit (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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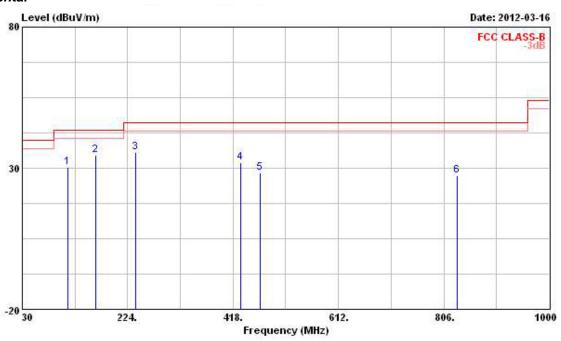
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3.4.8. Results of Radiated Emissions (30MHz~1GHz)

Final Test Date	Mar. 16, 2012	Test Site No.	03CH02-HY
Temperature	24.4 ℃	Humidity	60%
Test Engineer	Hsiao	Configurations	Normal Mode

Horizontal



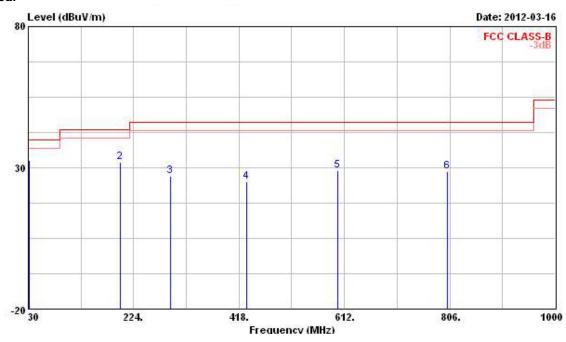
			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
22	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	фВ	dB		cm	deg
1	113.420	30.33	-13.17	43.50	43.55	12.80	1.77	27.79	Peak		
2 @	164.830	34.61	-8.89	43.50	49.69	10.34	2.14	27.56	Peak		
3	238.550	35.59	-10.41	46.00	47.59	12.62	2.69	27.31	Peak	1777	
4	431.580	32.03	-13.97	46.00	40.65	15.90	3.51	28.03	Peak		
5	467.470	28.38	-17.62	46.00	36.30	16.63	3.66	28.21	Peak		
6	831.220	27.46	-18.54	46.00	30.11	20.19	4.99	27.83	Peak		1555

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Vertical



	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos
V-1		§						05 300			3200
	MHZ	dBuV/m	qB	dBuV/m	dBuV	dB/m	dВ	dB		cm	deg
1 @	31.940	32.78	-7.22	40.00	44.32	15.48	0.92	27.94	Peak	745	1444
2	199.750	31.89	-11.61	43.50	45.53	11.35	2.42	27.41	Peak	8000	1,500
3	291.900	27.06	-18.94	46.00	37.72	13.59	2.93	27.18	Peak	-	
4	431.580	25.02	-20.98	46.00	33.64	15.90	3.51	28.03	Peak	1000	
5	599.390	29.16	-16.84	46.00	33.23	20.15	4.24	28.46	Peak		
6	801.150	28.54	-17.46	46.00	31.32	20.27	4.89	27.94	Peak		

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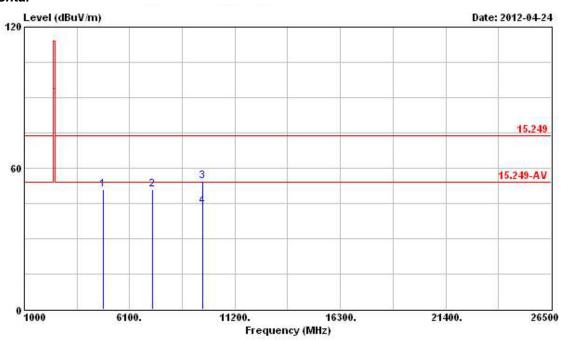
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3.4.9. Results for Radiated Emissions (1GHz~10th Harmonic)

Final Test Date	Apr. 24, 2012	Test Site No.	03CH02-HY
Temperature	24.4 ℃	Humidity	60%
Test Engineer	Hsiao	Configurations	2407.5 MHz

Horizontal



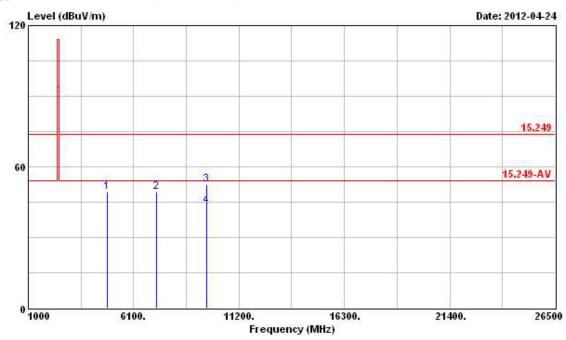
			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	o)	cm	deg
1 3	4815.000	50.73	-3.27	54.00	45.22	35.73	4.58	34.80	PK		
2 @	7222.500	50.85	-3.15	54.00	42.46	37.84	5.63	35.08	PK		1555
3	9630.000	54.48	-19.52	74.00	44.24	39.37	6.34	35.47	Peak	507000	-0.00
4	9630.000	43.92	-10.08	54.00	33.68	39.37	6.34	35.47	Average		

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Vertical



				0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
		Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	5	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	o)	cm	deg
ं	L @	4815.000	49.33	-4.67	54.00	44.44	35.11	4.58	34.80	PK		
2	9	7222.500	49.30	-4.70	54.00	41.86	36.89	5.63	35.08	PK		1555
3		9630.000	52.59	-21.41	74.00	43.15	38.57	6.34	35.47	Peak	-	
4		9630.000	43.31	-10.69	54.00	33.87	38.57	6.34	35.47	Average	1000	

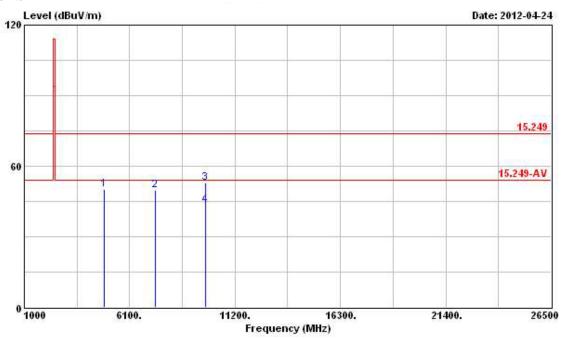
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Final Test Date	Apr. 24, 2012	Test Site No.	03CH02-HY
Temperature	24.4 ℃	Humidity	60%
Test Engineer	Hsiao	Configurations	2440 MHz

Horizontal



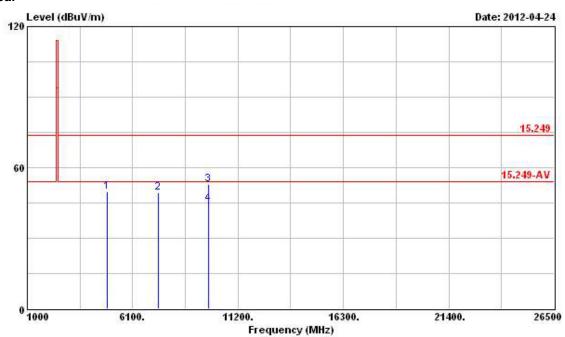
	Freq	Level	Limit	Limit		Factor			Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	o j (3	cm	deg
1 0	4880.000	49.98	-4.02	54.00	44.32	35.83	4.61	34.78	PK		
2 @	7320.000	49.82	-4.18	54.00	41.41	37.87	5.64	35.10	PK		1000
3	9760.000	52.93	-21.07	74.00	42.54	39.51	6.36	35.48	Peak	000000	
4	9760.000	43.33	-10.67	54.00	32.94	39.51	6.36	35.48	Average	202	

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Vertical



		0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	S	cm	deg
4880.000	49.73	-4.27	54.00	44.72	35.18	4.61	34.78	PK		
7320.000	49.50	-4.50	54.00	42.03	36.93	5.64	35.10	PK		1555
9760.000	52.89	-21.11	74.00	43.30	38.71	6.36	35.48	Peak	(0.0000)	2000
9760.000	44.45	-9.55	54.00	34.86	38.71	6.36	35.48	Average	1000	200
	MHz 4880.000 7320.000 9760.000	MHz dBuV/m 4880.000 49.73 7320.000 49.50 9760.000 52.89	Freq Level Limit MHz dBuV/m dB 4880.000 49.73 -4.27 7320.000 49.50 -4.50 9760.000 52.89 -21.11	### Hevel Limit Line MHz dBuV/m dB dBuV/m	### Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 4880.000 49.73 -4.27 54.00 44.72 35.18 7320.000 49.50 -4.50 54.00 42.03 36.93 9760.000 52.89 -21.11 74.00 43.30 38.71	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 4880.000 49.73 -4.27 54.00 44.72 35.18 4.61 7320.000 49.50 -4.50 54.00 42.03 36.93 5.64 9760.000 52.89 -21.11 74.00 43.30 38.71 6.36	Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 4880.000 49.73 -4.27 54.00 44.72 35.18 4.61 34.78 7320.000 49.50 -4.50 54.00 42.03 36.93 5.64 35.10 9760.000 52.89 -21.11 74.00 43.30 38.71 6.36 35.48	Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 4880.000 49.73 -4.27 54.00 44.72 35.18 4.61 34.78 PK 7320.000 49.50 -4.50 54.00 42.03 36.93 5.64 35.10 PK 9760.000 52.89 -21.11 74.00 43.30 38.71 6.36 35.48 Peak	Freq Level Limit Line Level Factor Loss Factor Remark Pos MHz dBuV/m dB dBuV/m dBuV dB/m dB dB dB cm 4880.000 49.73 -4.27 54.00 44.72 35.18 4.61 34.78 PK 7320.000 49.50 -4.50 54.00 42.03 36.93 5.64 35.10 PK 9760.000 52.89 -21.11 74.00 43.30 38.71 6.36 35.48 Peak

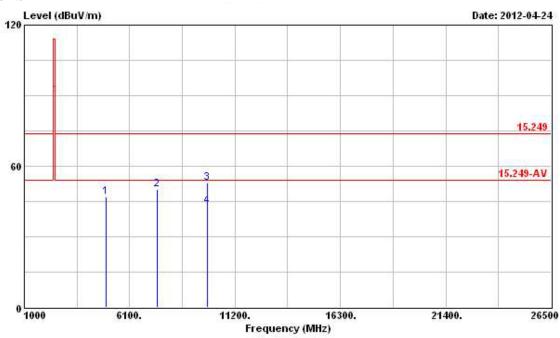
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Final Test Date	Apr. 24, 2012	Test Site No.	03CH02-HY
Temperature	24.4℃	Humidity	60%
Test Engineer	Hsiao	Configurations	2470 MHz

Horizontal



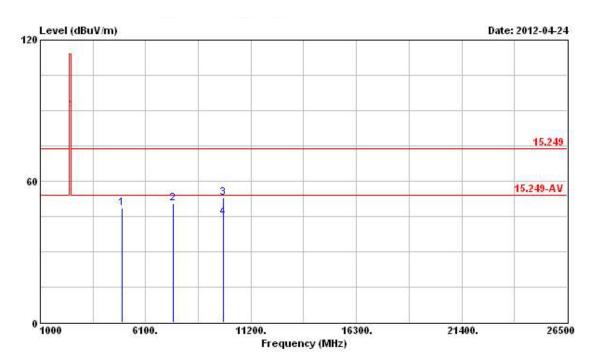
		Freq	Level	Over Limit			Antenna Factor				Ant Pos	Table Pos
	8	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	o 5 - 3	cm	deg
	1 @	4940.000	47.09	-6.91	54.00	41.24	35.93	4.68	34.76	PK	1444	
(3)	2 @	7410.000	50.11	-3.89	54.00	41.70	37.88	5.65	35.12	PK		777
3	3	9880.000	52.88	-21.12	74.00	42.33	39.66	6.38	35.49	Peak	17.77	
	1	9880.000	42.90	-11.10	54.00	32.35	39.66	6.38	35.49	Average		

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Vertical



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	3	cm	deg
1 (4940.000	48.59	-5.41	54.00	43.42	35.25	4.68	34.76	PK		
2 6	7410.000	50.48	-3.52	54.00	42.98	36.97	5.65	35.12	PK		1555
3	9880.000	52.82	-21.18	74.00	43.07	38.86	6.38	35.49	Peak	000000	
4	9880.000	44.52	-9.48	54.00	34.77	38.86	6.38	35.49	Average	1000	

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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 3.2.3, 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 3.2.4.

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. 24, 2012	Test Site No.	03CH02-HY
Temperature	24.4 ℃	Humidity	60%
Test Engineer	Hsiao	Configurations	2407.5 MHz, 2470MHz

2407.5 MHz

			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
9	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	8)	cm	deg
1	2388.850	64.60	-9.40	74.00	29.79	31.79	3.02	0.00	Peak		1944
2 @	2400.000	71.09	-2.91	74.00	36.28	31.79	3.02	0.00	Peak	37.500	1555
1 0	2390.000	47.57	-6.43	54.00	12.76	31.79	3.02	0.00	Average		
2 @	2400.000	48.08	-5.92	54.00	13.27	31.79	3.02	0.00	Average		

2470 MHz

			0ver		Limit Read		Antenna Cable Preamp		Ant		Table	
	Freq	Level	el Limit	Line Level	Level	Factor L	Loss	Loss Factor	Remark	Pos	Pos	
9	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	8)	cm.	deg	
2 @	2483.850	69.40	-4.60	74.00	34.19	32.13	3.08	0.00	Peak		1555	
2 @	2485.940	48.42	-5.58	54.00	13.21	32.13	3.08	0.00	Average		1000	

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
EMC Receiver	R&S	ESCS 30	100174	9 kHz ~ 2.75 GHz	Mar. 23, 2012	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz – 30MHz	Feb. 08, 2012	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9 kHz ~ 30 MHz	Apr. 20, 2012	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	CB049	9 kHz ~ 30 MHz	Apr. 25, 2012	Conduction (CO04-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP 40	100305	9 KHz ~ 40 GHz	Feb. 21, 2012	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Jun. 03, 2011	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	-20~100℃	Dec. 07, 2011	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10 MHz ~ 40 GHz	Jun. 07, 2011	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	1027452	300 MHz ~ 40 GHz	Jun. 16, 2011	Conducted (TH01-HY)
Power Meter	Anritsu	ML2495A	1124009	300 MHz ~ 40 GHz	Jun. 20, 2011	Conducted (TH01-HY)
RF Cable-1m	Jye Bao	RG142	CB034-1m	20 MHz ~ 7 GHz	Dec. 03, 2011	Conducted (TH01-HY)
RF Cable-2m	Jye Bao	RG142	CB035-2m	20 MHz ~ 1 GHz	Dec. 03, 2011	Conducted (TH01-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Jun. 09, 2011*	Conducted (TH01-HY)

Note: calibration interval of instruments listed above is two year.

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Antenna Mast

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Sep. 01, 2011	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 11, 2011	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 25, 2011	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1 Hz ~ 26.5GHz	Jul. 25, 2011	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1GHz ~ 18GHz	Nov. 15, 2011	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz ~ 1GHz	Nov. 11, 2011	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1GHz ~ 40GHz	Mar. 06, 2012	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30MHz ~ 2GHz	Oct. 22, 2011	Radiation (03CH02-HY)
Turn Table	HD	DS 420	420/649/00	0~ 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	HD	MA 240	240/559/00	1 ~ 4 m	N/A	Radiation

Report No.: FR242633

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

MA 240

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	Jul. 29, 2010*	Radiation (03CH02-HY)

240/559/00

1 ~ 4 m

N/A

(03CH02-HY)

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

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5. TEST LOCATION

SHIJR	ADD	:	6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei 221, Taiwan, 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	:	886-3-327-0973
LINKOU	ADD	:	No. 30-2, Dingfu Vil., Linkou Dist., New Taipei City 244, Taiwan, R.O.C.
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei 235, Taiwan, 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 724, 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. : L1190-111208

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

for Commodities Inspection

Program

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: December 08, 2011

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix

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