

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : E098R-042

AGR No. : A094A-010

Applicant : SEWOO TECH CO., LTD.
Address : Doosung Bd., 689-20, Kumjung-dong, Kunpo-si, Kyunggi-do, 435-862, Korea

Manufacturer : SEWOO TECH CO., LTD.
Address : Doosung Bd., 689-20, Kumjung-dong, Kunpo-si, Kyunggi-do, 435-862, Korea

Type of Equipment : Mobile Printer with WLAN 802.11 b/g Module

FCC ID. : WF5LK-P30W

Model Name : LK-P30W

Multiple Model Name : Alpine 3W

Serial number : N/A

Total page of Report : 60 pages (including this page)

Date of Incoming : June 22, 2009

Date of issue : August 19, 2009


SUMMARY

The equipment complies with the regulation; **FCC Part 15 Subpart C Section 15.247.**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
E098R-042	August 19, 2009	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

APPLICANT : SEWOO TECH CO., LTD.
ADDRESS : Doosung Bd., 689-20, Kumjung-dong, Kunpo-si, Kyunggi-do, 435-862, Korea
CONTACT PERSON : Mr. Hyung-Hee, Han / Senior Engineer
TELEPHONE NO : +82-31-459-8200
FCC ID : WF5LK-P30W
MODEL NAME : LK-P30W
SERIAL NUMBER : N/A
DATE : August 19, 2009

EQUIPMENT CLASS	<i>DTS – DIGITAL TRNSMISSION SYSTEM</i>
KIND OF EQUIPMENT	Mobile Printer with WLAN 802.11b/g Module
THIS REPORT CONCERNS	ORIGINAL GRANT
MEASUREMENT PROCEDURES	ANSI C63.4: 2003
TYPE OF EQUIPMENT TESTED	PRE-PRODUCTION
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	CERTIFICATION
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	3 METER(S) OPEN AREA TEST SITE

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Peak Conducted Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Peak Power Spectral Density	Met the Limit / PASS
15.247 (i)	Radio Frequency Exposure Level	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	N/A (See Note)
15.203	Antenna Requirement	Met requirement / PASS

Note: This test is not performed because the printer does not work in the status of being in charging mode, which the printer was connected to the AC/DC adapter.

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in section 2.1.

2.5 Test Methodology

Radiated testing was performed according to the procedures in ANSI C63.4: 2003 at a distance of 3 meters from EUT to the antenna.

2.6 Test Facility

The open area test site and conducted measurement facilities are located on at 307-51 Daessangryung-ri, Chowol-eup, Gwangju-si, Gyeonggi-do, 464-862, Korea. Description details of test facilities were submitted to the Commission on August 21, 2008. (Registration Number: 340658)

3. GENERAL INFORMATION

3.1 Product Description

The SEWOO TECH CO., LTD., Model LK-P30W (referred to as the EUT in this report) is a Mobile Printer which has a function of WLAN module and has ports for USB and serial. The ports for computing peripheral device and battery charging mode shall be subject to DoC procedure and issued by another test report. This report is for WLAN function. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Mobile Printer with WLAN 802.11b/g
TEMPERATURE RANGE	-10 °C ~ +50 °C
OPERATING FREQUENCY	2 412 MHz ~ 2 462 MHz
RF OUTPUT POWER	13.90 dBm(802.11b), 13.40 dBm(802.11g)
NUMBER OF CHANNEL	11 Channels
DATA TRANSFER RATE	Max. 54 Mbps
MODULATION TYPE	OFDM/CCK
ANTENNA	MFR.: AMOTECH, Model No.: ALA931C5
ANTENNA CONNECTOR TYPE	Internal Chip Antenna
ANTENNA GAIN	3.50 dBi
LIST OF EACH OSC. OR CRYSTAL. FREQ.(FREQ.>=1 MHz)	16 MHz and 48 MHz on main board 38.4 MHz and 11.059 2 MHz on the WLAN Board.
NUMBER OF LAYER	4 Layers: Main board and WLAN Board.
EXRERNAL CONNECTOR	Mini USB(5P), Mini DIN(8P), DC Power Input Ports

3.2 Alternative type(s)/model(s); also covered by this test report.

-. The following lists consist of the added model and their differences.

	Model Name	Model Differences
Basic Model	LK-P30W	-
Multiple Model	Alpine 3W	Only model designation according to buyer's request.

4. EUT MODIFICATIONS

None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	N/A	LK-P30 Ver. 55.00	N/A
Function Key Board	N/A	LK-P30 FUNCTION B/D Rev.54	N/A
WLAN Module	N/A	Wireless LK-P20.11 Ver.1.0	N/A

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	FCC ID	Description	Connected to
LK-P30W	SEWOO TECH CO., LTD.	WF5LK-P30W	Mobile Printer (EUT)	Test Jig
N/A	N/A	N/A	Test Jig	EUT and Notebook PC
NC8000	HP	DoC	Notebook PC	Test Jig
MO56UOA	Dell Computer	DoC	Mouse	Notebook PC

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting and receiving mode is programmed. For final testing, WLAN was set at Low Channel (2 412 MHz), Middle Channel (2 437 MHz), and High Channel (2 462 MHz) with 11 Mbps(802.11b) and Low Channel (2 412 MHz), Middle Channel (2 437 MHz), and High Channel (2 462 MHz) with 54 Mbps(802.11g) data rate. To get a maximum emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes. The conducted emission test was performed all transfer rate but worst case data (11 Mbps (802.11b) and 54 Mbps(802.11g)) were recorded in this report.

5.4 Configuration of Test System

Line Conducted Test: This test is not performed because the printer does not work in the status of being in charging mode, which the printer was connected to the AC/DC adapter.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.4: 2003 8.3.1.1 and 13.1.4.1 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter open area test site.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

5.5 Antenna Requirement

For intentional device, according to section 15.203, 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.

Antenna Construction:

The transmitter antenna of the EUT is installed inside of the EUT, so no consideration of replacement by the user.

6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

During Preliminary Tests, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
This test is not performed because the printer does not work in the status of being in charging mode, which the printer was connected to the AC/DC adapter.	

6.2 General Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
TX mode	X

7. TEST DATA FOR 802.11b WLAN MODE

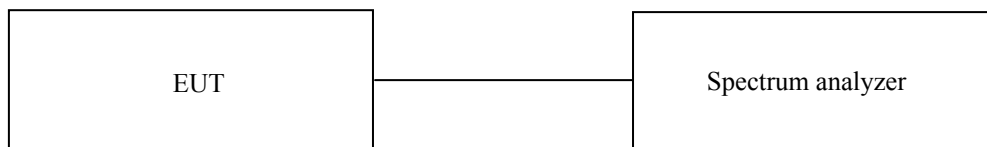
7.1 MINIMUM 6 dB BANDWIDTH

7.1.1 Operating environment

Temperature : 24.5 °C
Relative humidity : 48.2 %R.H.

7.1.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



7.1.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ - 8564E	HP	Spectrum Analyzer	3650A00756	June 15, 2009

All test equipment used is calibrated on a regular basis.

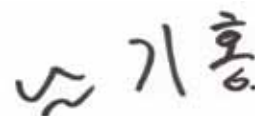
7.1.4 Test data

- Test Date : June 29, 2009

- Test Result : Pass

CHANNEL	FREQUENCY(MHz)	MEASURED VLAUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 412	12 270	500	-11 770
Middle	2 437	12 270	500	-11 770
High	2 462	12 270	500	-11 770

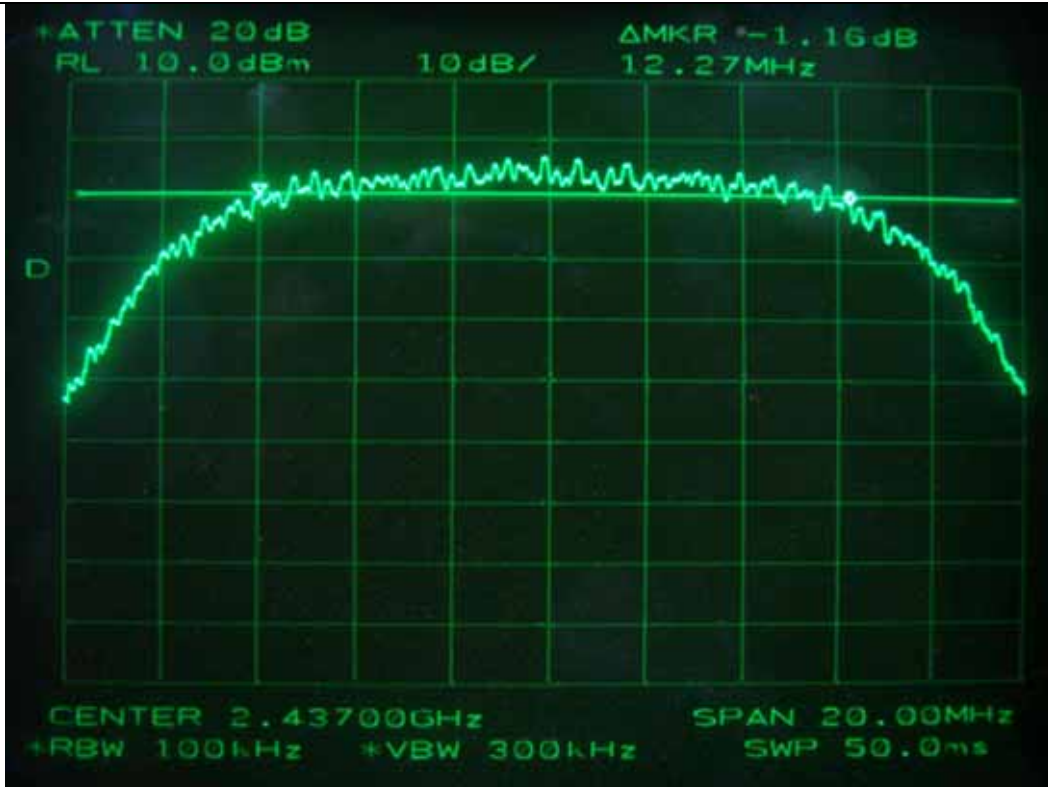
Remark: See next page for an overview sweep performed with peak detector.



Tested by: Ki-Hong, Nam / Senior Engineer



Low Channel



Middle Channel



High Channel

7.2 MAXIMUM PEAK OUTPUT POWER

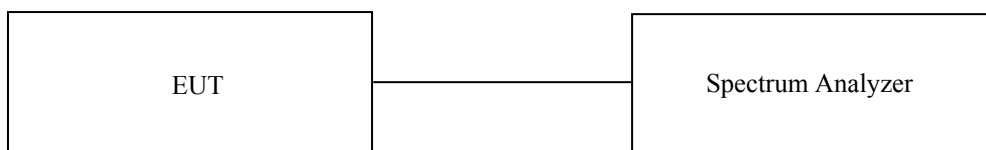
7.2.1 Operating environment

Temperature : 24.5 °C

Relative humidity : 48.2 %R.H.

7.2.2 Test set-up

The maximum peak output power was measured with the spectrum analyzer connected to the antenna output of the EUT. The spectrum analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99 % bandwidth. The EUT was operating in transmit mode at the appropriate center frequency.



7.2.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ - 8564E	HP	Spectrum Analyzer	3650A00756	June 15, 2009

All test equipment used is calibrated on a regular basis.

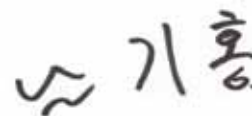
7.2.4 Test data

- Test Date : June 29, 2009

- Test Result : Pass

CHANNEL	FREQUENCY (MHz)	99 % Occupied Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412	15.23	13.90	30.00	-16.10
Middle	2 437	15.27	12.90	30.00	-17.10
High	2 462	15.27	11.70	30.00	-18.30

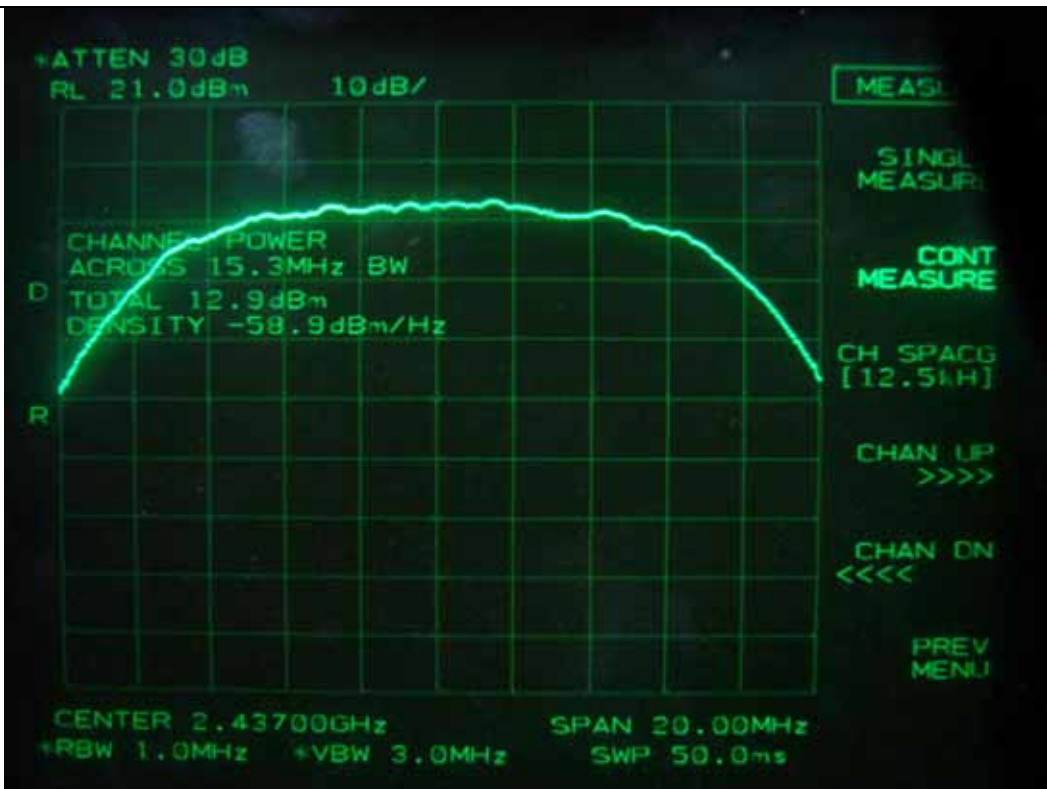
Remark: See next page for an overview sweep performed with peak detector.



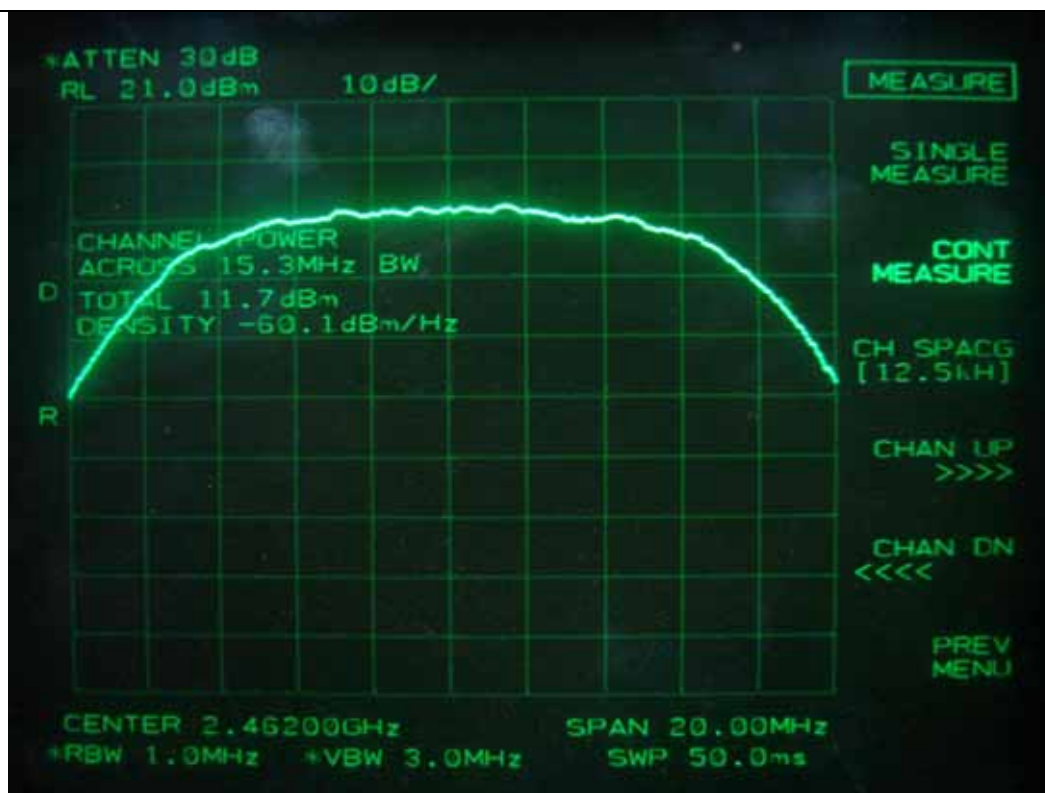
Tested by: Ki-Hong, Nam / Senior Engineer



Low Channel



Middle Channel



High Channel

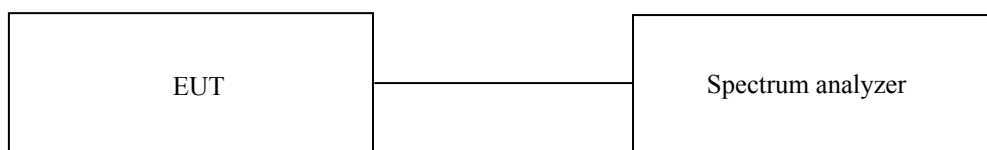
7.3 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

7.3.1 Operating environment

Temperature : 28 °C
Relative humidity : 45.7 %R.H.

7.3.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



7.3.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 meters, open-field test site. The EUT was placed on a non-conductive turntable approximately 0.8 meters above the ground plane.

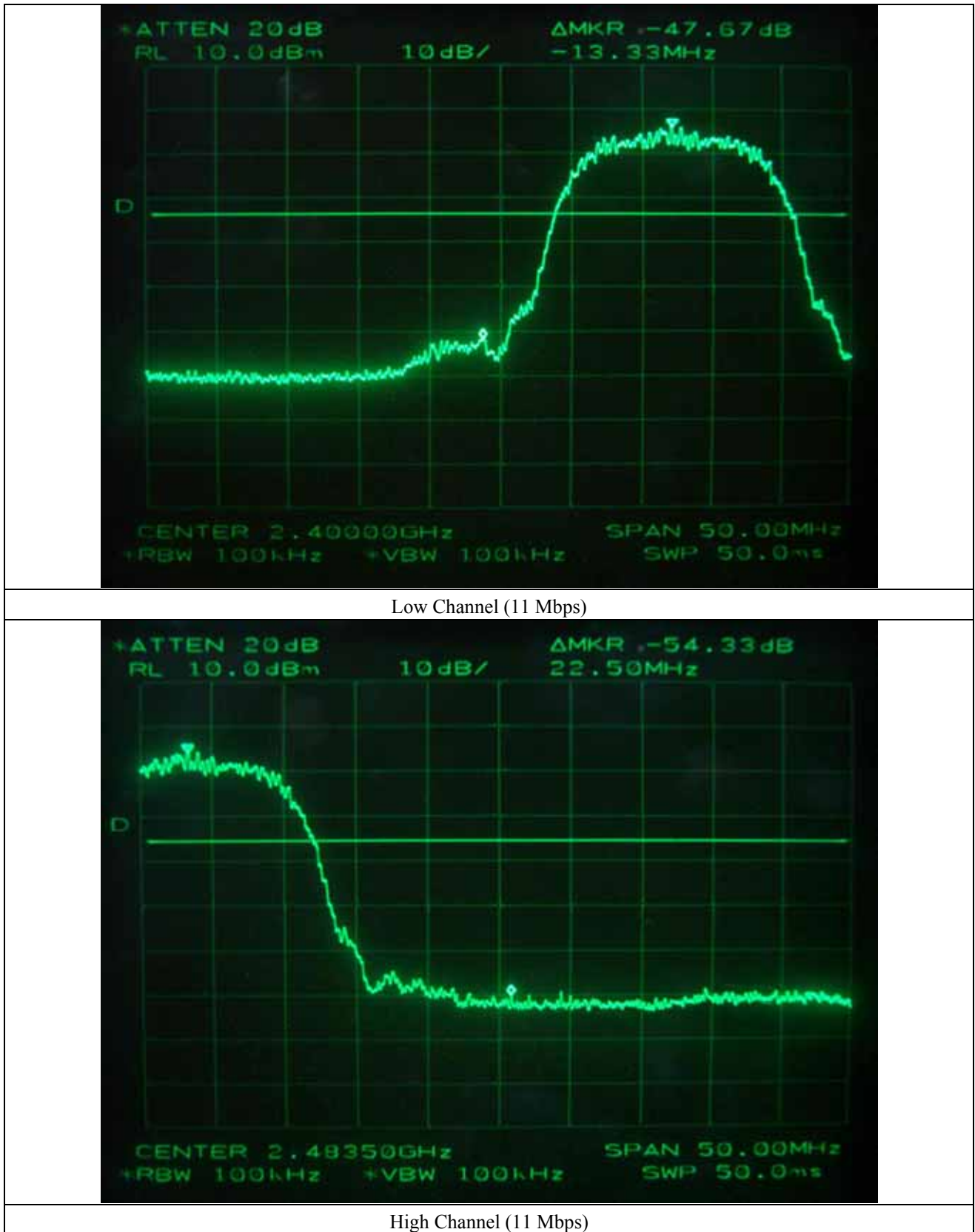
The frequency spectrum from 30 MHz to 25 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 and 4.0 meters in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

7.3.4 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ -	8564E	Hewlett-Packard	Spectrum Analyzer	3650A00756	June 15, 2009
■ -	8447D	Hewlett-Packard	Amplifier	2727A04987	June 15, 2009
■ -	83051A	Agilent	Preamplifier	3950M00201	June 15, 2009
■ -	F-40-5000-RF	RLC Electronics	Highpass Filter	0425	July 11, 2009
■ -	MA220	HD	Turn Table	N/A	N/A
■ -	HD240	HD	Antenna Mast	N/A	N/A
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D294	July 03, 2006(3Y)
■ -	YSE 500B	YoungShin Eng.	Frequency Converter	950413001	N/A
■ -	ETCR-10	DaeHa	Automatic Voltage Com.	N/A	N/A

All test equipment used is calibrated on a regular basis.

7.3.5. Test data for conducted emission

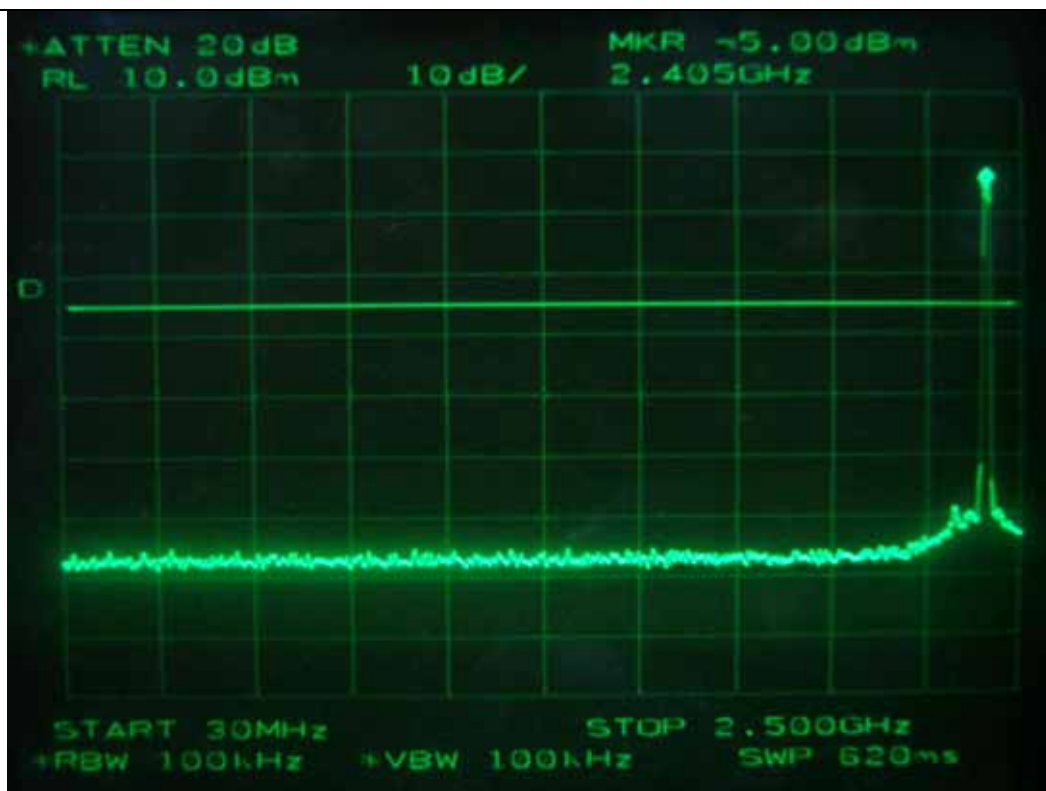


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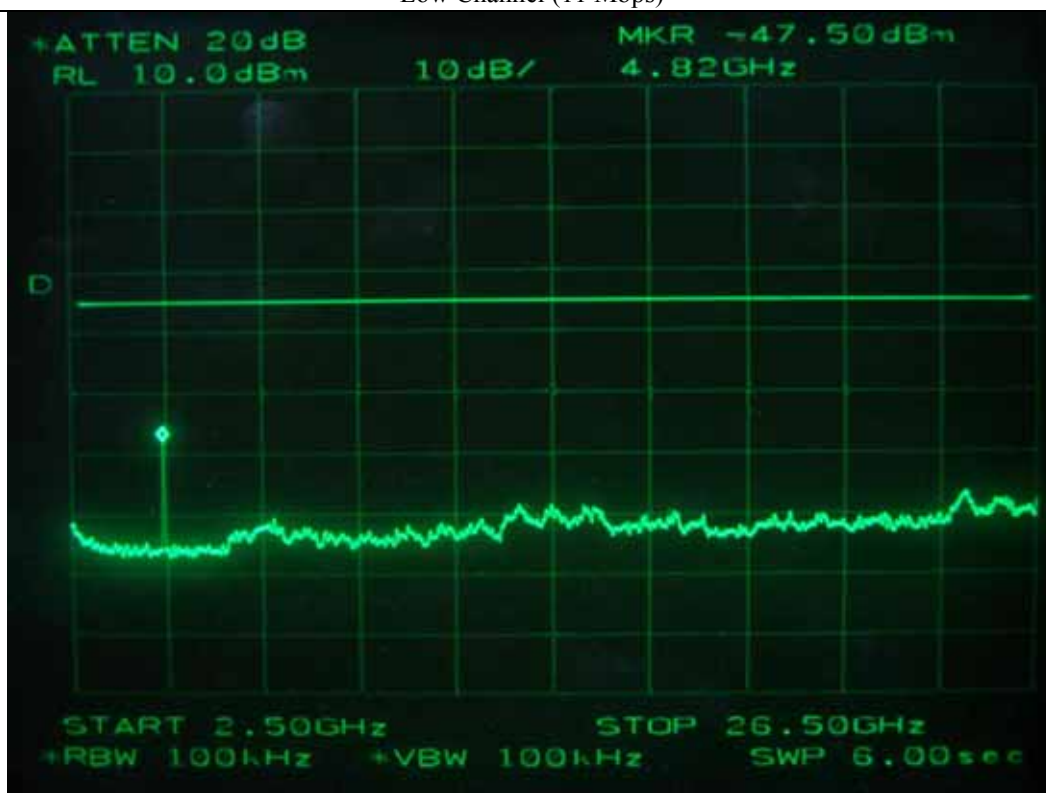
EMC-003 (Rev.1)

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(TEL: +82-31-746-8500, FAX: +82-31-746-8700)

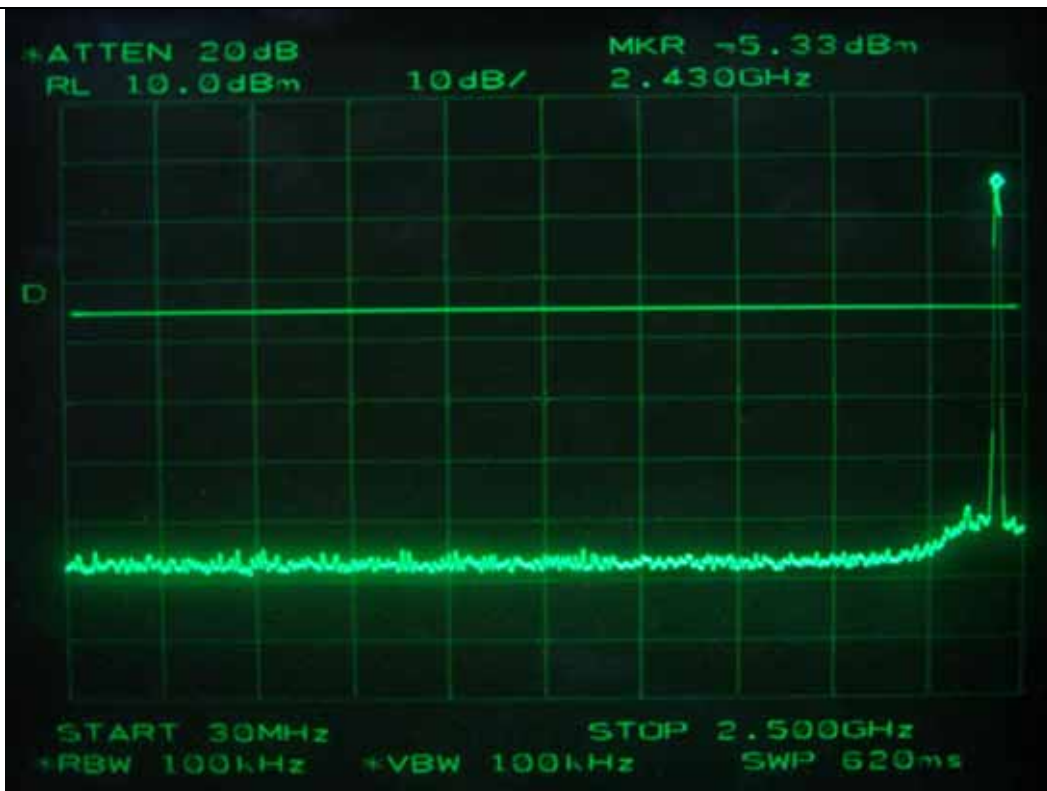
EMC Testing Dept : 307-51 Daessangnyeong-ri, Chowol-eup, Gwangju-si, Gyeonggi-do 464-862 Korea. (TEL: +82-31-765-8289, FAX: +82-31-766-2904)



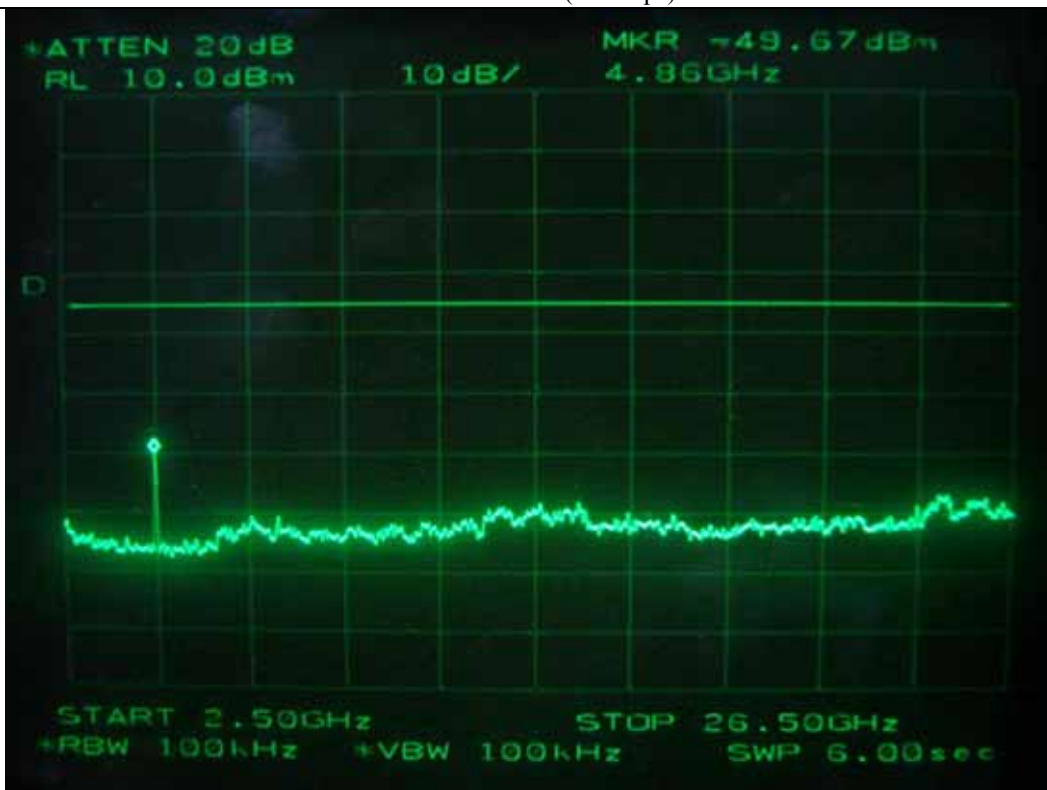
Low Channel (11 Mbps)



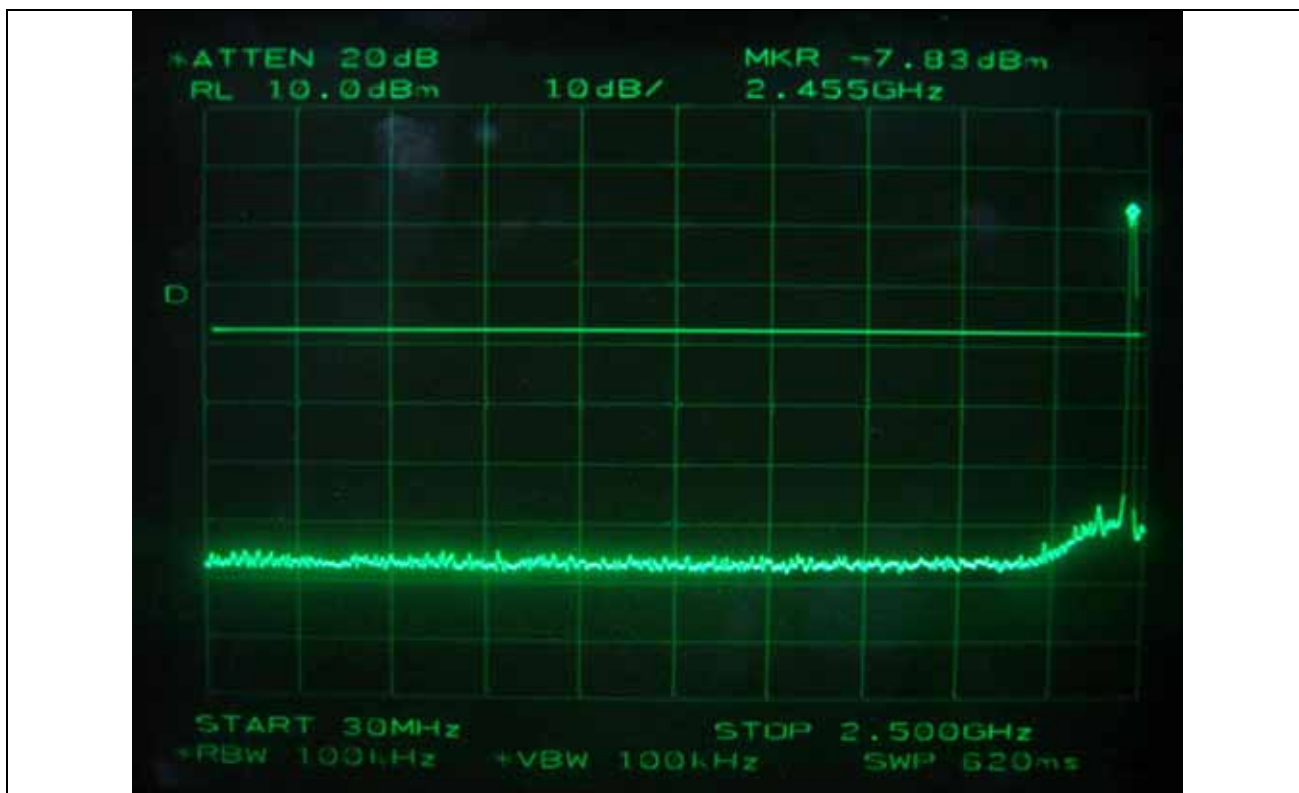
Low Channel (11 Mbps)



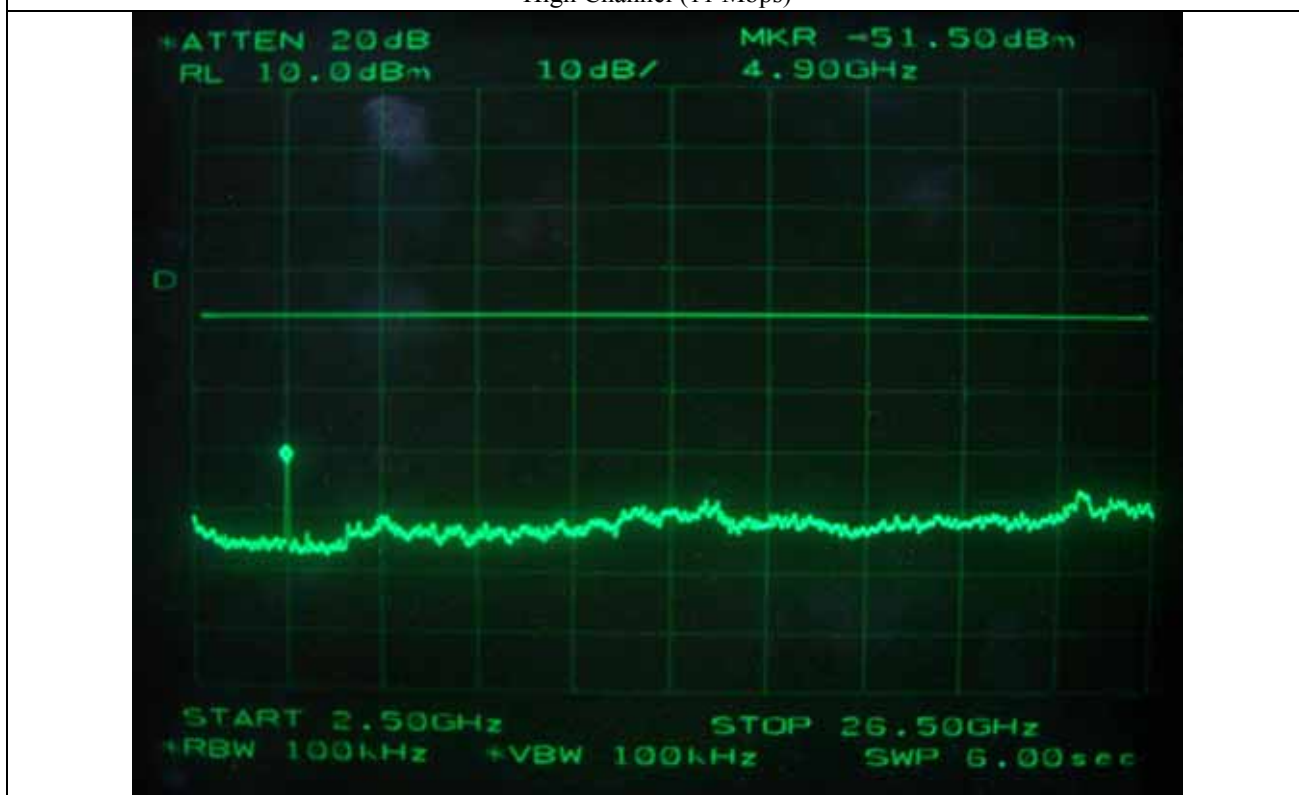
Middle Channel (11 Mbps)



Middle Channel (11 Mbps)



High Channel (11 Mbps)



High Channel (11 Mbps)

7.3.6. Test data for radiated emission

7.3.6.1 Radiated Emission which fall in the Restricted Band

- Test Date : July 03, 2009
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 25 GHz
- Measurement distance : 3 m
- Operating Condition : Low / High Channel
- Result : PASSED BY -18.68 dB at High Channel (2 Mbps and 5.5 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel (1 Mbps)									
2 390.00	38.67	Peak	H	27.05	3.13	28.98	39.87	74.00	-34.13
	31.83	Average	H				33.03	54.00	-20.97
	40.50	Peak	V				41.70	74.00	-32.30
	33.33	Average	V				34.53	54.00	-19.47
Test Data for Low Channel (2 Mbps)									
2 390.00	39.00	Peak	H	27.05	3.13	28.98	40.20	74.00	-33.80
	31.83	Average	H				33.03	54.00	-20.97
	40.83	Peak	V				42.03	74.00	-31.97
	33.67	Average	V				34.87	54.00	-19.13
Test Data for Low Channel (5.5 Mbps)									
2 390.00	38.67	Peak	H	27.05	3.13	28.98	39.87	74.00	-34.13
	31.50	Average	H				32.70	54.00	-21.30
	40.67	Peak	V				41.87	74.00	-32.13
	33.67	Average	V				34.87	54.00	-19.13
Test Data for Low Channel (11 Mbps)									
2 390.00	38.67	Peak	H	27.05	3.13	28.98	39.87	74.00	-34.13
	31.50	Average	H				32.70	54.00	-21.30
	40.50	Peak	V				41.70	74.00	-32.30
	33.33	Average	V				34.53	54.00	-19.47

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

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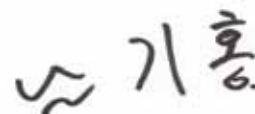
EMC-003 (Rev.1)

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(TEL: +82-31-746-8500, FAX: +82-31-746-8700)

EMC Testing Dept : 307-51 Daessangnyeong-ri, Chowol-eup, Gwangju-si, Gyeonggi-do 464-862 Korea. (TEL: +82-31-765-8289, FAX: +82-31-766-2904)

-Continued

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for High Channel (1 Mbps)									
2 483.50	38.83	Peak	H	27.31	3.16	28.82	40.48	74.00	-33.52
	31.67	Average	H				33.32	54.00	-20.68
	40.67	Peak	V				42.32	74.00	-31.68
	33.33	Average	V				34.98	54.00	-19.02
Test Data for High Channel (2 Mbps)									
2 483.50	39.00	Peak	H	27.31	3.16	28.82	40.65	74.00	-33.35
	31.17	Average	H				32.82	54.00	-21.18
	41.00	Peak	V				42.65	74.00	-31.35
	33.67	Average	V				35.32	54.00	-18.68
Test Data for High Channel (5.5 Mbps)									
2 483.50	38.83	Peak	H	27.31	3.16	28.82	40.48	74.00	-33.52
	31.67	Average	H				33.32	54.00	-20.68
	40.50	Peak	V				42.15	74.00	-31.85
	33.67	Average	V				35.32	54.00	-18.68
Test Data for High Channel (11 Mbps)									
2 483.50	38.83	Peak	H	27.31	3.16	28.82	40.48	74.00	-33.52
	32.00	Average	H				33.65	54.00	-20.35
	40.92	Peak	V				42.57	74.00	-31.43
	33.50	Average	V				35.15	54.00	-18.85



Tested by: Ki-Hong, Nam / Senior Engineer

7.3.6.2 Spurious & Harmonic Radiated Emission

- Test Date : July 03, 2009
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 25 GHz
- Measurement distance : 3 m
- Result : PASSED BY -21.11 dB at Middle Channel(2 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel (1 Mbps)									
2 412.00	61.50	Peak	H	27.11	3.16		91.77	-	
	65.00	Peak	V				95.27	-	
4 824.00	38.50	Peak	H	31.30	4.10	28.78	45.12	74.00	-28.88
	25.83	Average	H				32.45	54.00	-21.55
	38.33	Peak	V				44.95	74.00	-29.05
	25.83	Average	V				32.45	54.00	-21.55
Test Data for Low Channel (2 Mbps)									
2 412.00	61.67	Peak	H	27.11	3.16		91.94	-	
	65.33	Peak	V				95.60	-	
4 824.00	38.50	Peak	H	31.30	4.10	28.78	45.12	74.00	-28.88
	25.67	Average	H				32.29	54.00	-21.71
	38.17	Peak	V				44.79	74.00	-29.21
	26.00	Average	V				32.62	54.00	-21.38
Test Data for Low Channel (5.5 Mbps)									
2 412.00	61.50	Peak	H	27.11	3.16		91.77	-	
	65.00	Peak	V				95.27	-	
4 824.00	38.83	Peak	H	31.30	4.10	28.78	45.45	74.00	-28.55
	25.83	Average	H				32.45	54.00	-21.55
	39.00	Peak	V				45.62	74.00	-28.38
	25.82	Average	V				32.44	54.00	-21.56

Tabulated test data for Restricted Band

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-Continued

Test Data for Low Channel (11 Mbps)									
2 412.00	61.67	Peak	H	27.11	3.16		91.94	-	
	65.33	Peak	V				95.60	-	
4 824.00	39.00	Peak	H	31.30	4.10	28.78	45.62	74.00	-28.38
	25.92	Average	H				32.54	54.00	-21.46
	38.67	Peak	V				45.29	74.00	-28.71
	25.67	Average	V				32.29	54.00	-21.71

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Middle Channel (1 Mbps)									
2 437.00	61.50	Peak	H	27.18	3.16		91.84	-	
	65.00	Peak	V				95.34	-	
4 874.00	39.00	Peak	H	31.18	4.12	28.74	45.56	74.00	-28.44
	26.00	Average	H				32.56	54.00	-21.44
	38.83	Peak	V				45.39	74.00	-28.61
	25.67	Average	V				32.23	54.00	-21.77
Test Data for Middle Channel (2 Mbps)									
2 437.00	61.33	Peak	H	27.18	3.16		91.67	-	
	64.67	Peak	V				95.01	-	
4 874.00	39.33	Peak	H	31.18	4.12	28.74	45.89	74.00	-28.11
	26.33	Average	H				32.89	54.00	-21.11
	38.72	Peak	V				45.28	74.00	-28.72
	25.67	Average	V				32.23	54.00	-21.77

Tabulated test data for Restricted Band

Test Data for Middle Channel (5.5 Mbps)									
2 437.00	61.17	Peak	H	27.18	3.16		91.51	-	
	65.00	Peak	V				95.34	-	
4 874.00	38.91	Peak	H	31.18	4.12	28.74	45.47	74.00	-28.53
	25.83	Average	H				32.39	54.00	-21.61
	38.83	Peak	V				45.39	74.00	-28.61
	25.33	Average	V				31.89	54.00	-22.11
Test Data for Middle Channel (11 Mbps)									
2 437.00	61.33	Peak	H	27.18	3.16		91.67	-	
	64.83	Peak	V				95.17	-	
4 874.00	38.92	Peak	H	31.18	4.12	28.74	45.48	74.00	-28.52
	25.72	Average	H				32.28	54.00	-21.72
	38.67	Peak	V				45.23	74.00	-28.77
	25.67	Average	V				32.23	54.00	-21.77

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for High Channel (1 Mbps)									
2 462.00	62.67	Peak	H	27.25	3.16		93.08	-	
	66.50	Peak	V				96.91	-	
4 924.00	38.83	Peak	H	31.26	4.14	28.70	45.53	74.00	-28.47
	25.67	Average	H				32.37	54.00	-21.63
	38.25	Peak	V				44.95	74.00	-29.05
	25.67	Average	V				32.37	54.00	-21.63
Test Data for High Channel (2 Mbps)									
2 462.00	62.00	Peak	H	27.25	3.16		92.41	-	
	66.17	Peak	V				96.58	-	
4 924.00	38.83	Peak	H	31.26	4.14	28.70	45.53	74.00	-28.47
	25.67	Average	H				32.37	54.00	-21.63
	38.33	Peak	V				45.03	74.00	-28.97
	25.67	Average	V				32.37	54.00	-21.63

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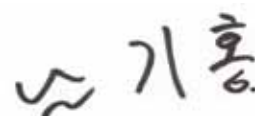
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Test Data for High Channel (5.5 Mbps)									
2 462.00	62.00	Peak	H	27.25	3.16		92.41	-	
	66.67	Peak	V				97.08	-	
4 924.00	38.50	Peak	H	31.26	4.14	28.70	45.20	74.00	-28.80
	25.83	Average	H				32.53	54.00	-21.47
	38.83	Peak	V				45.53	74.00	-28.47
	25.50	Average	V				32.20	54.00	-21.80
Test Data for High Channel (11 Mbps)									
2 462.00	62.33	Peak	H	27.25	3.16		92.74	-	
	66.25	Peak	V				96.66	-	
4 924.00	38.72	Peak	H	31.26	4.14	28.70	45.42	74.00	-28.58
	25.67	Average	H				32.37	54.00	-21.63
	39.00	Peak	V				45.70	74.00	-28.30
	25.83	Average	V				32.53	54.00	-21.47

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical



Tested by: Ki-Hong, Nam / Senior Engineer

7.4 PEAK POWER SPECTRUL DENSITY

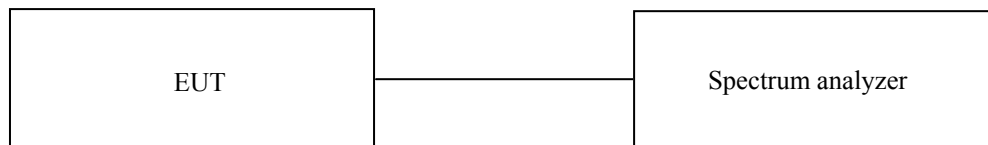
7.4.1 Operating environment

Temperature : 24.5 °C
Relative humidity : 48.2 %R.H.

7.4.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 3 kHz, the video bandwidth is set to 3 times the resolution bandwidth, and sweep time was set to span / 3 kHz. The sweep time was allowed to be longer than span / 3 kHz for a full response of the mixer in the spectrum analyzer.

The maximum level from the EUT in a 3 kHz bandwidth was measured with above condition.



7.4.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ - 8564E	HP	Spectrum Analyzer	3650A00756	June 15, 2009

All test equipment used is calibrated on a regular basis.

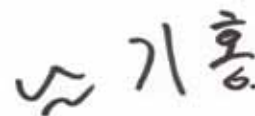
7.4.4 Test data

- Test Date : June 29, 2009

- Test Result : Pass

CHANNEL	FREQUENCY(MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412	-18.00	8.00	-26.00
Middle	2 437	-18.17	8.00	-26.17
High	2 462	-19.50	8.00	-27.50

Remark: See next page for measurement data.



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Low Channel



Middle Channel



High Channel

8. TEST DATA FOR 802.11g WLAN MODE

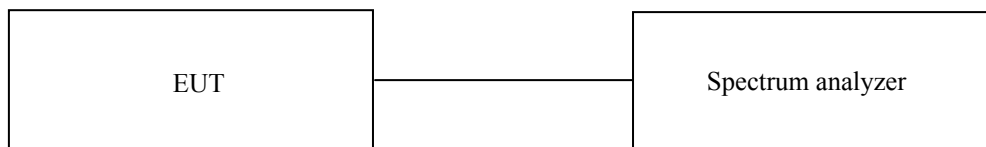
8.1 MINIMUM 6 dB BANDWIDTH

8.1.1 Operating environment

Temperature : 24.5 °C
Relative humidity : 48.2 %R.H.

8.1.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



8.1.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ - 8564E	HP	Spectrum Analyzer	3650A00756	June 15, 2009

All test equipment used is calibrated on a regular basis.

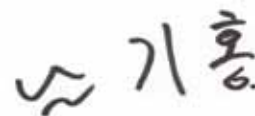
8.1.4 Test data

- Test Date : June 29, 2009

- Test Result : Pass

CHANNEL	FREQUENCY(MHz)	MEASURED VLAUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 412	16 600	500	-16 100
Middle	2 437	16 600	500	-16 100
High	2 462	16 600	500	-16 100

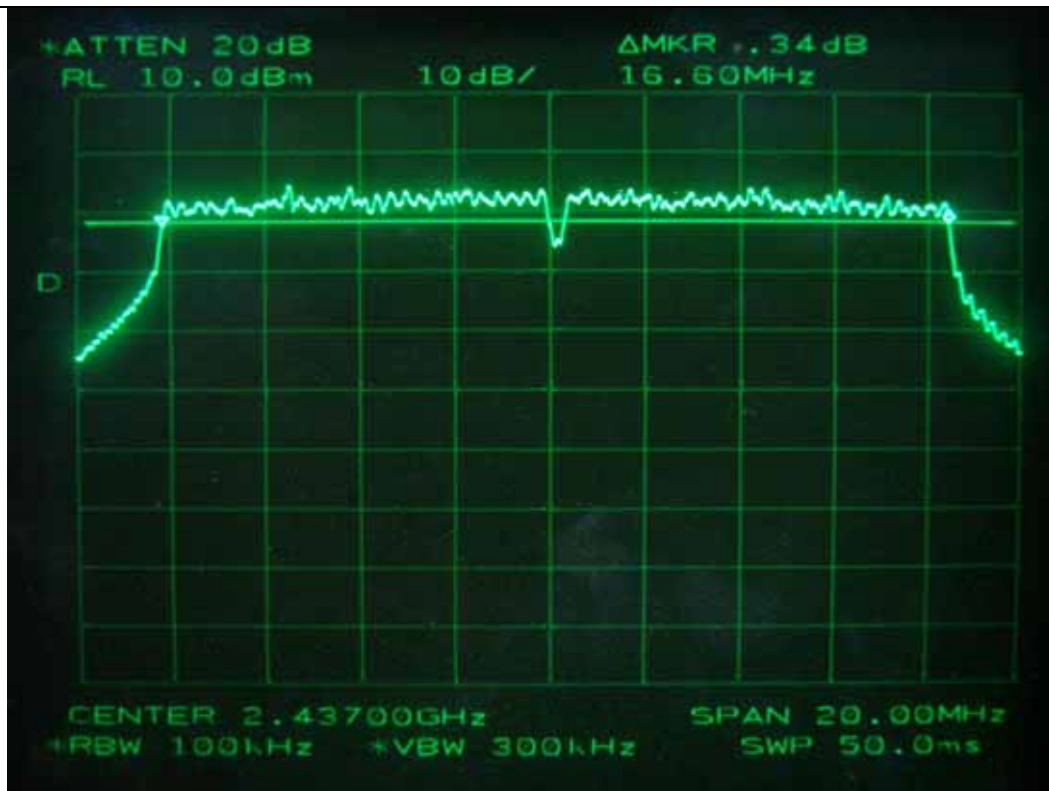
Remark: See next page for an overview sweep performed with peak detector.



Tested by: Ki-Hong, Nam / Senior Engineer



Low Channel



Middle Channel



High Channel

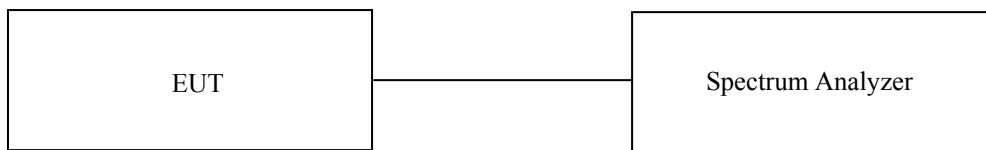
8.2 MAXIMUM PEAK OUTPUT POWER

8.2.1 Operating environment

Temperature : 24.5 °C
Relative humidity : 48.2 %R.H.

8.2.2 Test set-up

The maximum peak output power was measured with the spectrum analyzer connected to the antenna output of the EUT. The spectrum analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99 % bandwidth. The EUT was operating in transmit mode at the appropriate center frequency.



8.2.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ - 8564E	HP	Spectrum Analyzer	3650A00756	June 15, 2009

All test equipment used is calibrated on a regular basis.

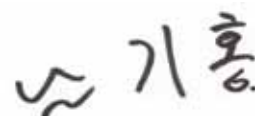
8.2.4 Test data

-. Test Date : June 29, 2009

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	99 % Occupied Bandwidth (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412	17.43	13.40	30.00	-16.60
Middle	2 437	17.43	12.30	30.00	-17.70
High	2 462	17.43	11.40	30.00	-18.60

Remark: See next page for an overview sweep performed with peak detector.



Tested by: Ki-Hong, Nam / Senior Engineer



Low Channel



Middle Channel



High Channel

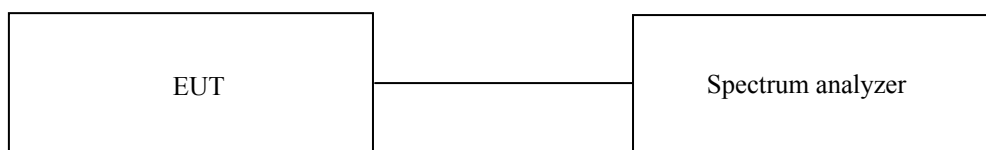
8.3 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

8.3.1 Operating environment

Temperature : 28 °C
Relative humidity : 45.7 %R.H.

8.3.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



8.3.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3meters, open-field test site. The EUT was placed on a non-conductive turntable approximately 0.8 meters above the ground plane.

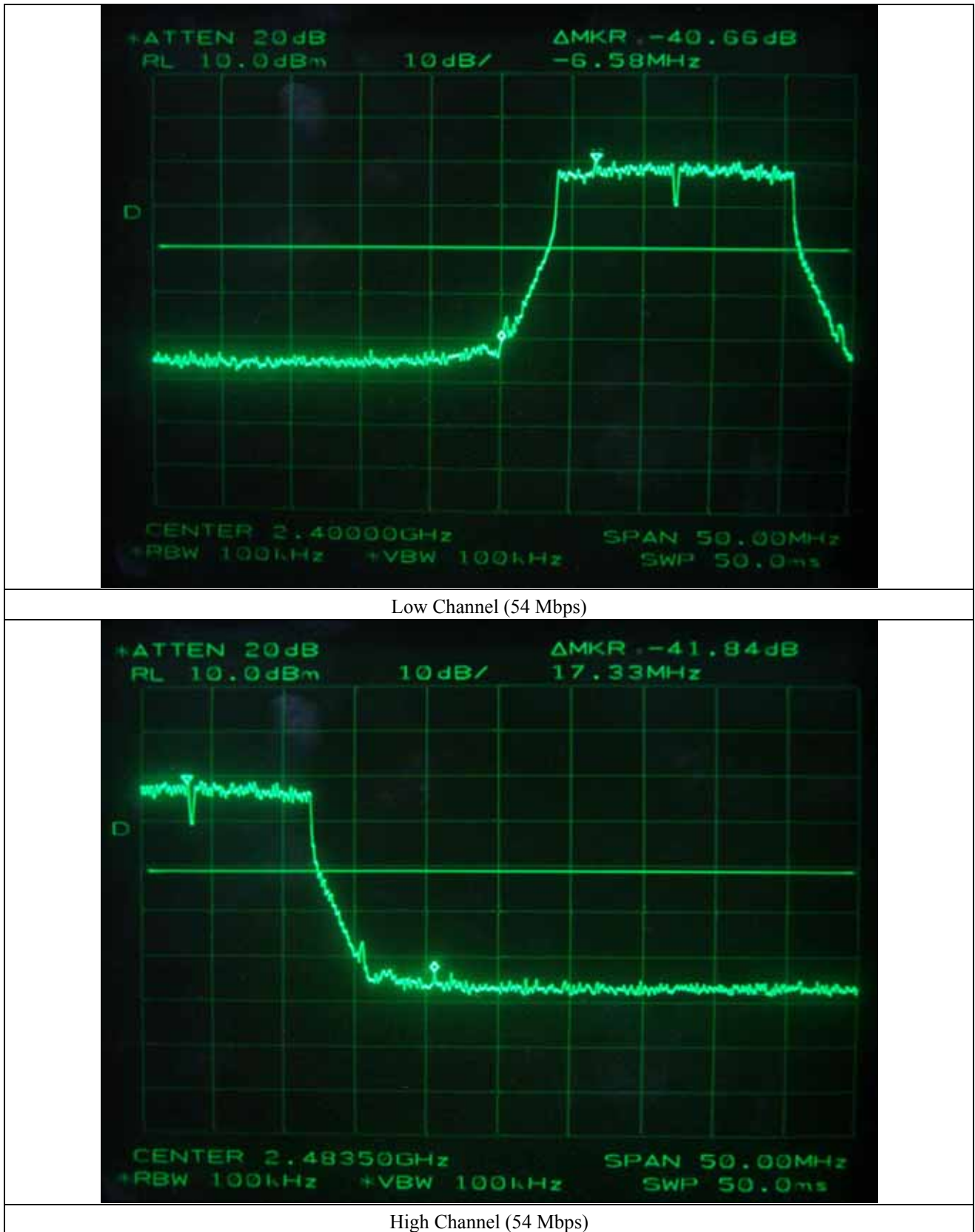
The frequency spectrum from 30 MHz to 25 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 and 4.0 meters in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

8.3.4 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ -	8564E	Hewlett-Packard	Spectrum Analyzer	3650A00756	June 15, 2009
■ -	8447D	Hewlett-Packard	Amplifier	2727A04987	June 15, 2009
■ -	83051A	Agilent	Preamplifier	3950M00201	June 15, 2009
■ -	F-40-5000-RF	RLC Electronics	Highpass Filter	0425	July 11, 2009
■ -	MA220	HD	Turn Table	N/A	N/A
■ -	HD240	HD	Antenna Mast	N/A	N/A
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D294	July 03, 2006(3Y)
■ -	YSE 500B	YoungShin Eng.	Frequency Converter	950413001	N/A
■ -	ETCR-10	DaeHa	Automatic Voltage Com.	N/A	N/A

All test equipment used is calibrated on a regular basis.

8.3.5. Test data for conducted emission

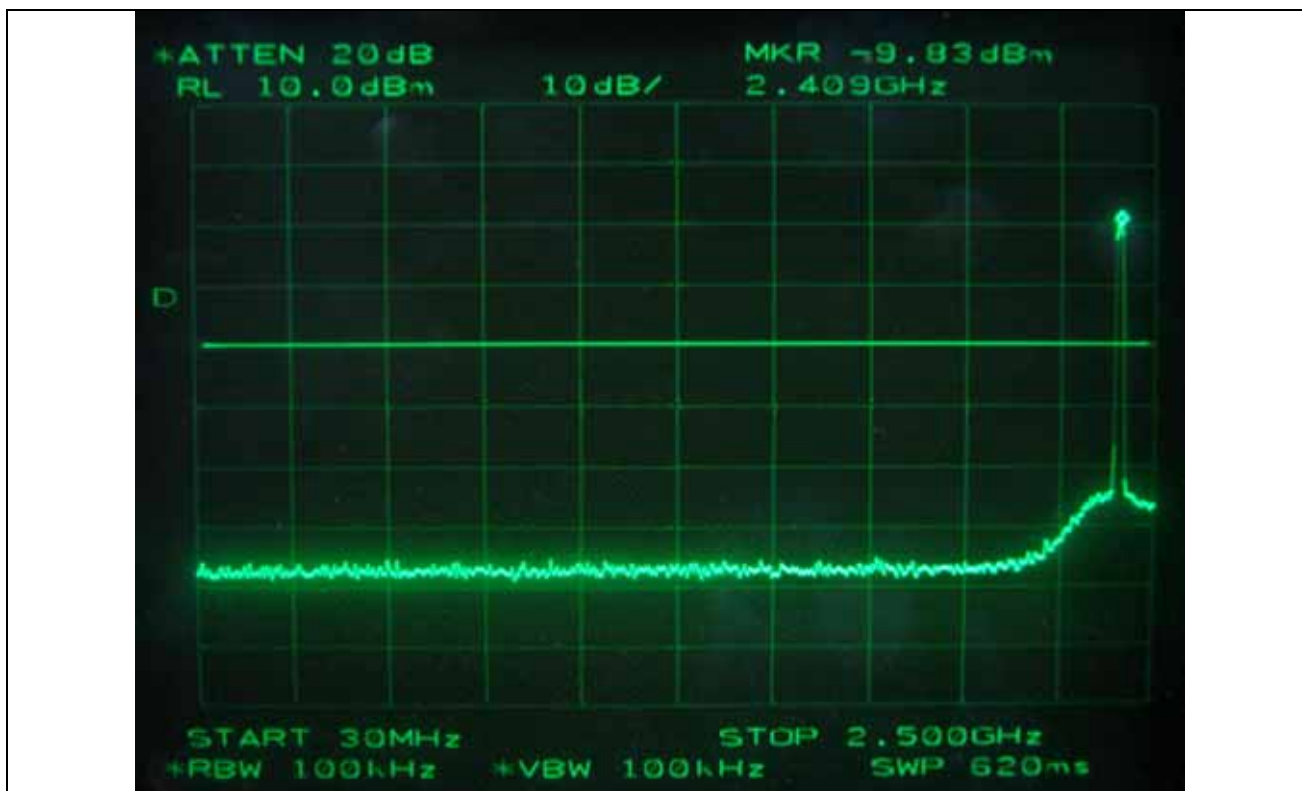


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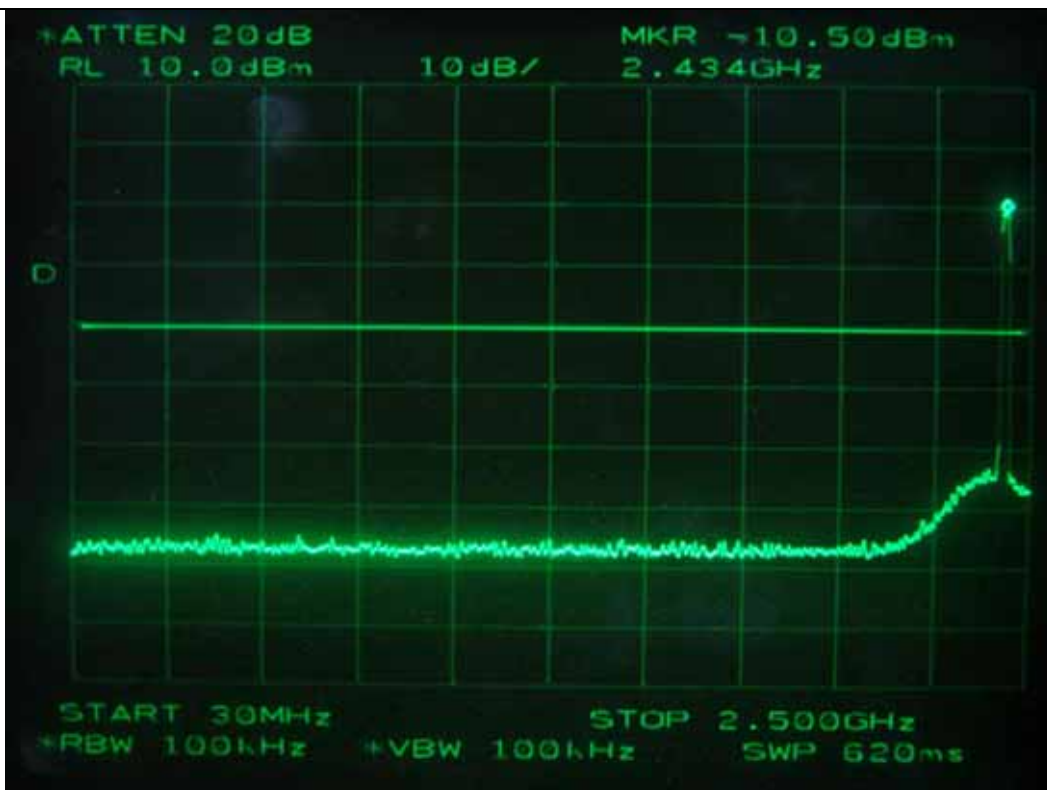
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Low Channel (54 Mbps)



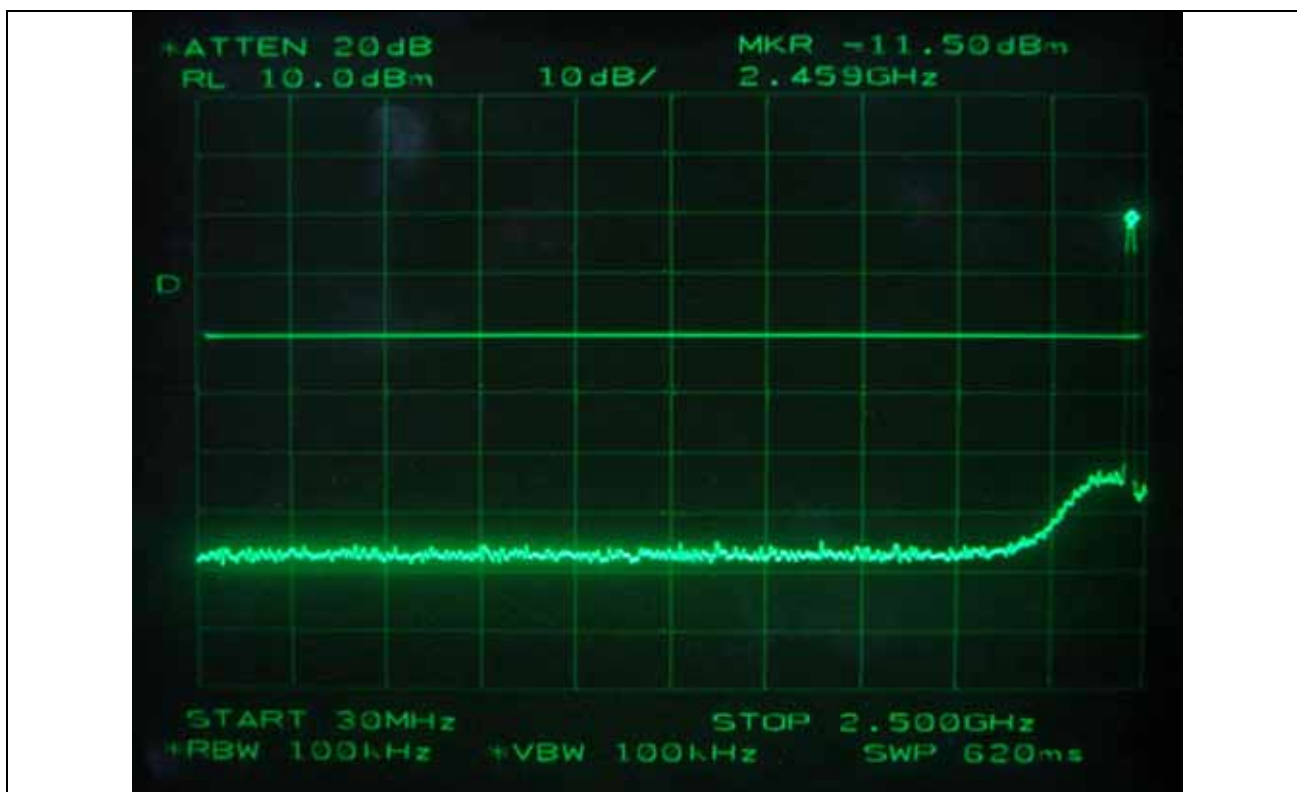
Low Channel (54 Mbps)



Middle Channel (54 Mbps)



Middle Channel (54 Mbps)



High Channel (54 Mbps)



High Channel (54 Mbps)

8.3.6. Test data for radiated emission

8.3.6.1 Radiated Emission which fall in the Restricted Band

- . Test Date : July 03, 2009
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 1 GHz ~ 25 GHz
- . Measurement distance : 3 m
- . Operating Condition : Low / High Channel
- . Result : PASSED BY -15.06 dB at High Channel (6 Mbps and 24 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel (6 Mbps)									
2 390.00	38.00	Peak	H	27.26	3.83	26.10	42.99	74.00	-31.01
	31.83	Average	H				36.82	54.00	-17.18
	41.33	Peak	V				46.32	74.00	-27.68
	32.83	Average	V				37.82	54.00	-16.18
Test Data for Low Channel (24 Mbps)									
2 390.00	37.90	Peak	H	27.26	3.83	26.10	42.89	74.00	-31.11
	31.50	Average	H				36.49	54.00	-17.51
	40.83	Peak	V				45.82	74.00	-28.18
	32.67	Average	V				37.66	54.00	-16.34
Test Data for Low Channel (54 Mbps)									
2 390.00	37.92	Peak	H	27.26	3.83	26.10	42.91	74.00	-31.09
	31.33	Average	H				36.32	54.00	-17.68
	40.83	Peak	V				45.82	74.00	-28.18
	32.67	Average	V				37.66	54.00	-16.34

Tabulated test data for Restricted Band

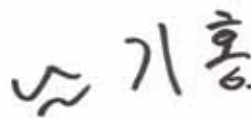
Remark: "H": Horizontal, "V": Vertical

-Continued

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for High Channel (6 Mbps)									
2 483.50	37.67	Peak	H	27.55	3.83	26.10	42.95	74.00	-31.06
	31.17	Average	H				36.45	54.00	-17.56
	40.33	Peak	V				45.61	74.00	-28.40
	33.67	Average	V				38.95	54.00	-15.06
Test Data for High Channel (24 Mbps)									
2 483.50	37.33	Peak	H	27.55	3.83	26.10	42.61	74.00	-31.40
	31.00	Average	H				36.28	54.00	-17.73
	40.67	Peak	V				45.95	74.00	-28.06
	33.67	Average	V				38.95	54.00	-15.06
Test Data for High Channel (54 Mbps)									
2 483.50	37.83	Peak	H	27.55	3.83	26.10	43.11	74.00	-30.90
	32.00	Average	H				37.28	54.00	-16.73
	40.33	Peak	V				45.61	74.00	-28.40
	33.50	Average	V				38.78	54.00	-15.23

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical



Tested by: Ki-Hong, Nam / Senior Engineer

8.3.6.2 Spurious & Harmonic Radiated Emission

- Test Date : July 03, 2009
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 25 GHz
- Measurement distance : 3 m
- Result : PASSED BY -21.44 dB at Middle Channel (6 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel (6 Mbps)									
2 412.00	61.50	Peak	H	27.11	3.16		91.77	-	
	58.33	Peak	V				88.60	-	
4 824.00*	39.00	Peak	H	31.10	4.10	28.78	45.42	74.00	-28.58
	25.83	Average	H				32.25	54.00	-21.75
	38.33	Peak	V				44.75	74.00	-29.25
	25.83	Average	V				32.25	54.00	-21.75
Test Data for Low Channel (24 Mbps)									
2 412.00	61.67	Peak	H	27.11	3.16		91.94	-	
	58.33	Peak	V				88.60	-	
4 824.00*	38.67	Peak	H	31.10	4.10	28.78	45.09	74.00	-28.91
	25.50	Average	H				31.92	54.00	-22.08
	38.67	Peak	V				45.09	74.00	-28.91
	25.42	Average	V				31.84	54.00	-22.16
Test Data for Low Channel (54 Mbps)									
2 412.00	61.25	Peak	H	27.11	3.16		91.52	-	
	58.17	Peak	V				88.44	-	
4 824.00*	38.50	Peak	H	31.10	4.10	28.78	44.92	74.00	-29.08
	25.33	Average	H				31.75	54.00	-22.25
	38.67	Peak	V				45.09	74.00	-28.91
	25.67	Average	V				32.09	54.00	-21.91

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical, "*" Frequency fall in restricted band

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Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Middle Channel (6 Mbps)									
2 437.00	61.00	Peak	H	27.18	3.16		91.34	-	
	56.83	Peak	V				87.17	-	
4 874.00*	38.83	Peak	H	31.18	4.12	28.74	45.39	74.00	-28.61
	25.83	Average	H				32.39	54.00	-21.61
	38.67	Peak	V				45.23	74.00	-28.77
	26.00	Average	V				32.56	54.00	-21.44
Test Data for Middle Channel (24 Mbps)									
2 437.00	60.83	Peak	H	27.18	3.16		91.17	-	
	56.72	Peak	V				87.06	-	
4 874.00*	38.67	Peak	H	31.18	4.12	28.74	45.23	74.00	-28.77
	25.33	Average	H				31.89	54.00	-22.11
	38.83	Peak	V				45.39	74.00	-28.61
	25.50	Average	V				32.06	54.00	-21.94
Test Data for Middle Channel (54 Mbps)									
2 437.00	61.17	Peak	H	27.18	3.16		91.51	-	
	57.17	Peak	V				87.51	-	
4 874.00*	38.83	Peak	H	31.18	4.12	28.74	45.39	74.00	-28.61
	25.67	Average	H				32.23	54.00	-21.77
	38.33	Peak	V				44.89	74.00	-29.11
	25.38	Average	V				31.94	54.00	-22.06

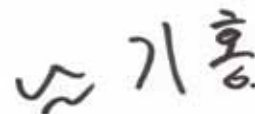
Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical, "*" Frequency fall in restricted band

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for High Channel (6 Mbps)									
2 462.00	61.50	Peak	H	27.25	3.16		91.91	-	
	59.00	Peak	V				89.41	-	
4 924.00*	38.67	Peak	H	31.26	4.14	28.70	45.37	74.00	-28.63
	25.50	Average	H				32.20	54.00	-21.80
	38.33	Peak	V				45.03	74.00	-28.97
	25.50	Average	V				32.20	54.00	-21.80
Test Data for High Channel (24 Mbps)									
2 462.00	61.00	Peak	H	27.25	3.16		91.41	-	
	58.90	Peak	V				89.31	-	
4 924.00*	38.50	Peak	H	31.26	4.14	28.70	45.20	74.00	-28.80
	25.67	Average	H				32.37	54.00	-21.63
	38.83	Peak	V				45.53	74.00	-28.47
	25.33	Average	V				32.03	54.00	-21.97
Test Data for High Channel (54 Mbps)									
2 462.00	61.33	Peak	H	27.25	3.16		91.74	-	
	58.83	Peak	V				89.24	-	
4 924.00*	38.92	Peak	H	31.26	4.14	28.70	45.62	74.00	-28.38
	25.50	Average	H				32.20	54.00	-21.80
	38.83	Peak	V				45.53	74.00	-28.47
	25.50	Average	V				32.20	54.00	-21.80

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical, "*" Frequency fall in restricted band



Tested by: Ki-Hong, Nam / Senior Engineer

8.4 PEAK POWER SPECTRUL DENSITY

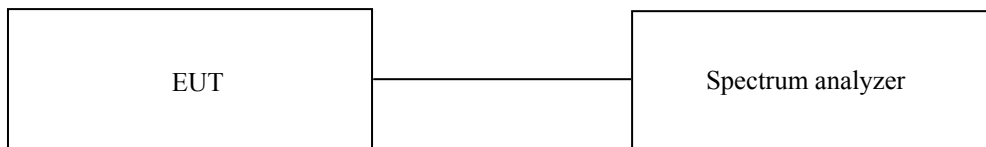
8.4.1 Operating environment

Temperature : 24.5 °C
Relative humidity : 48.2 %R.H.

8.4.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 3 kHz, the video bandwidth is set to 3 times the resolution bandwidth, and sweep time was set to span / 3 kHz. The sweep time was allowed to be longer than span / 3 kHz for a full response of the mixer in the spectrum analyzer.

The maximum level from the EUT in a 3 kHz bandwidth was measured with above condition.



8.4.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ - 8564E	HP	Spectrum Analyzer	3650A00756	June 15, 2009

All test equipment used is calibrated on a regular basis.

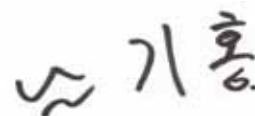
8.4.4 Test data

-. Test Date : June 29, 2009

-. Test Result : Pass

CHANNEL	FREQUENCY(MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412	-29.50	8.00	-37.50
Middle	2 437	-29.83	8.00	-37.83
High	2 462	-30.67	8.00	-38.67

Remark: See next page for measurement data.



Tested by: Ki-Hong, Nam / Senior Engineer



Low Channel



Middle Channel



High Channel

9. RADIO FREQUENCY EXPOSURE

9.1 RF Exposure Limit

According to the FCC rule §1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 MHz ~ 100 000 MHz.

9.2 EUT Description

Kind of EUT	Mobile Printer with WLAN 802.11b, 802.11g
Operating Frequency Band	<input checked="" type="checkbox"/> WLAN: 2 400 MHz ~ 2 483.5 MHz <input type="checkbox"/> WLAN: 5 180 MHz ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input type="checkbox"/> Bluetooth: 2 400 MHz ~ 2 483.5 MHz
Device Category	<input checked="" type="checkbox"/> Portable (<20 cm separation) <input type="checkbox"/> Mobile (>20 cm separation) <input type="checkbox"/> Others
Max. Output Power	802.11b: 13.90 dBm (24.55 mW) 802.11g: 13.40 dBm (22.88 mW)
Used Antenna	Internal Chip Antenna
Used Antenna Gain	3.50 dBi
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A

9.3 Test Result

According to the rule, §1.1307(b) (1) and §2.1093, portable devices using Bluetooth technology according to §15.247 are exempt from the regulation.

Also, SAR evaluation is not required for the PORTABLE Device while its maximum output power is lower than threshold:
 $60/f(\text{GHz}) = 60/2.437 = 24.62 \text{ mW}$.

So, the device meets the RF exposure requirement.

10. RADIATED EMISSION TEST

10.1 Operating environment

Temperature : 28 °C
Relative humidity : 45.7 %R.H.

10.2 Test set-up

The radiated emissions measurements were on the 3 meters, open-field test site. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 1 000 MHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 and 4.0 meters in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

10.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ - ESVD	Rohde & Schwarz	Test Receiver	838453/018	Nov. 06, 2008
■ - 8566B	HP	Spectrum Analyzer	3407A08547	June 16, 2009
■ - 8447D	Hewlett Packard	Amplifier	2727A04987	June 15, 2009
■ - MA240	HD GmbH	Antenna Master	N/A	N/A
■ - HD100	HD GmbH	Position Controller	N/A	N/A
■ - DS420S	HD GmbH	Turn Table	N/A	N/A
■ - VHA9103	Schwarzbeck	Biconical Antenna	91031852	Feb. 13, 2008(2Y)
■ - 9108-A(494)	Schwarzbeck	Log Periodic Antenna	62281001	Feb. 13, 2008(2Y)

All test equipment used is calibrated on a regular basis.

10.4 Test data

10.4.1 Operating Mode: 802.11b WLAN Mode

- Test Date : July 03, 2009
- Resolution bandwidth : 120 kHz
- Frequency range : 30 MHz ~ 1 000 MHz
- Measurement distance : 3 m
- Result : PASSED
- Channel : Low

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
72.50	22.00	V	1.50	270.00	5.87	2.00	29.87	40.00	-10.13
240.10	16.50	V	1.30	170.00	17.28	3.12	36.90	46.02	-9.12
288.00	18.33	H	1.00	210.00	19.11	3.20	40.64	46.02	-5.38
385.60	16.17	H	2.00	160.00	14.69	3.96	34.82	46.02	-11.20
480.50	15.50	V	1.60	180.00	19.16	4.52	39.18	46.02	-6.84
567.80	16.00	H	2.00	220.00	19.04	5.24	40.28	46.02	-5.74

Tabulated test data for Radiated Electromagnetic Field

- Channel : Middle

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
72.50	22.17	V	1.50	270.00	5.87	2.00	30.04	40.00	-9.96
240.10	16.33	V	1.30	170.00	17.28	3.12	36.73	46.02	-9.29
288.00	18.50	H	1.00	210.00	19.11	3.20	40.81	46.02	-5.21
385.60	16.10	H	2.00	160.00	14.69	3.96	34.75	46.02	-11.27
480.50	15.50	V	1.60	180.00	19.16	4.52	39.18	46.02	-6.84
567.80	16.17	H	2.00	220.00	19.04	5.24	40.45	46.02	-5.57

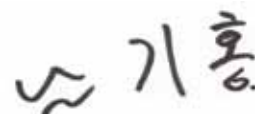
Tabulated test data for Radiated Electromagnetic Field

-. Channel : High

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
72.50	22.00	V	1.50	270.00	5.87	2.00	29.87	40.00	-10.13
240.10	16.50	V	1.30	170.00	17.28	3.12	36.90	46.02	-9.12
288.00	18.17	H	1.00	210.00	19.11	3.20	40.48	46.02	-5.54
385.60	16.33	H	2.00	160.00	14.69	3.96	34.98	46.02	-11.04
480.50	15.33	V	1.60	180.00	19.16	4.52	39.01	46.02	-7.01
567.80	16.50	H	2.00	220.00	19.04	5.24	40.78	46.02	-5.24

Tabulated test data for Radiated Electromagnetic Field

Remark: "H": Horizontal, "V": Vertical



Tested by: Ki-Hong, Nam / Senior Engineer

10.4.2 Operating Mode: 802.11g WLAN Mode

- Test Date : July 03, 2009
- Resolution bandwidth : 120 kHz
- Frequency range : 30 MHz ~ 1 000 MHz
- Measurement distance : 3 m
- Result : PASSED
- Channel : Low

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
72.50	21.50	V	1.50	270.00	5.87	2.00	29.37	40.00	-10.63
240.10	16.00	V	1.30	170.00	17.28	3.12	36.40	46.02	-9.62
288.00	18.17	H	1.00	210.00	19.11	3.20	40.48	46.02	-5.54
385.60	15.83	H	2.00	160.00	14.69	3.96	34.48	46.02	-11.54
480.50	15.33	V	1.60	180.00	19.16	4.52	39.01	46.02	-7.01
567.80	15.50	H	2.00	220.00	19.04	5.24	39.78	46.02	-6.24

Tabulated test data for Radiated Electromagnetic Field

- Channel : Middle

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
72.50	21.83	V	1.50	270.00	5.87	2.00	29.70	40.00	-10.30
240.10	15.83	V	1.30	170.00	17.28	3.12	36.23	46.02	-9.79
288.00	18.50	H	1.00	210.00	19.11	3.20	40.81	46.02	-5.21
385.60	16.00	H	2.00	160.00	14.69	3.96	34.65	46.02	-11.37
480.50	15.50	V	1.60	180.00	19.16	4.52	39.18	46.02	-6.84
567.80	15.83	H	2.00	220.00	19.04	5.24	40.11	46.02	-5.91

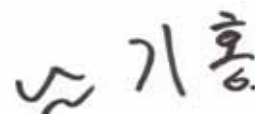
Tabulated test data for Radiated Electromagnetic Field

-. Channel : High

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
72.50	22.00	V	1.50	270.00	5.87	2.00	29.87	40.00	-10.13
240.10	15.83	V	1.30	170.00	17.28	3.12	36.23	46.02	-9.79
288.00	18.33	H	1.00	210.00	19.11	3.20	40.64	46.02	-5.38
385.60	16.25	H	2.00	160.00	14.69	3.96	34.90	46.02	-11.12
480.50	15.33	V	1.60	180.00	19.16	4.52	39.01	46.02	-7.01
567.80	16.00	H	2.00	220.00	19.04	5.24	40.28	46.02	-5.74

Tabulated test data for Radiated Electromagnetic Field

Remark: "H": Horizontal, "V": Vertical



Tested by: Ki-Hong, Nam / Senior Engineer