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TEST REPORT

FCC PART 15 C

	Trade Name	SEBINE Technology, Inc.		Inc.	
Applicant	Address	RN 202, Daedeok Radio Engineering Center, 60 Tamnip-dong, Yuseong-gu, Daejeon, Korea 305-			
	Telephone Number	82-42-935-2085		Fax Number	82-42-935-2088
	Name	WDAS			'
Product	Model Name	W210A			
	Manufacturer	SEBINE Techno	ology,	Inc.	
,	Γest Date	2011. 4.	25.	~ 2011.	7. 21.
Issued Date		2011. 7.	25.		
Test Procedure		ANSI C63.4-2	2003		
Applicable Regulation		FCC Part 15.	231		
	FCC ID	Y9AW210A			
FCC	Classification	DSR / Part 1	5 Ren	note Control/Securi	ity Device Transceiv
Test Result		■ Pass		☐ Fail	
Test Engineer				Chief Engine	eer
o fella				36	
Eunjung, Yang			_	Kook-Sun, S	Shin

CHUNGBUK TECHNOPARK

I, the undersigned, hereby declare that the equipment specified above conforms to the above FCC Rule(s) and Regulation(s) Part 15 as described in the attached test report.

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

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1. Test Laboratory

1.1 General Information

Name of Laboratory	CHUNGBUK TECHNOPARK
Representative	Jongsung, Lim
Address	685-1 Yangcheong-ri, Ochang-eup, Cheongwon-gun, Chungcheongbuk-do, Korea
Telephone Number	+82-43-270-2000
Fax Number	+82-43-270-2099
Homepage	www.cbtp.or.kr

1.2 Location of Test Laboratory

Address	685-3 Yangcheong-ri, Ochang-eup, Cheongwon-gun, Chungcheongbuk-do, Korea
Telephone Number	+82-43-270-2400
Fax Number	+82-43-270-2499

1.3 Registration Information

Test item(s)	Facility	Registration Number	
Radiated Emission Measurement	10m semi-anechoic chamber		
Conducted Emission Measurement	Shielded room	647924	

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2. Test Rule

2.1 Test Rule Part(s)

Test item(s)	Test Rule Part(s)	Test Result	
1. Transmission time & silent time	15.231 (e)	■ Pass	☐ Fail
2. Field strength of fundamental	15.231 (e)	■ Pass	☐ Fail
3. Field strength of the spurious emissions & Radiated emissions	15.231 (e) 15.231 (b) 15.209 15.205	■ Pass	□ Fail
4. 20 dB bandwidth	15.231 (c)	■ Pass	☐ Fail

2.2 Equipment Under Test(EUT) Modifications

No modifications were made to the EUT in order to achieve and maintain compliance to the standards described in this report.

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3. Description for Equipment Under Test(EUT)

Item	Specification		
Name	W210A		
Dimension	109mm(L) × 85mm(W) × 18.6mm(H) (w/o Antenna)		
Housing	Aluminu	m	
Weight	150g (v	w/o Antenna)	
Power Supply	+12Vdc	$\pm 10\%$, Reverse Power/Overvoltage/Overcurrent Protection	
Current Consumption	Rx 80m	A Tx 86mA WDT Reset 88mA (@12Vdc)	
Operating Temperature	-10℃ ~	+60℃	
RF Features	 Frequency: 433.0625MHz ~ 434.7625MHz Channel Spacing: 25KHz Transmitter Power: 73dBuV/m Receiver Sensitivity: -116 ~ -120dBm(-116dBm typ.) Modulation: FSK Bandwidth: < 14KHz 		
Performance	 Expected Line-Of-Sight Range : Up To 1.5km with λ/4 Dipole Antenna RF Data Rate : 4.8K Baud, 7.2K Baud 		
I/O Interface	Analog Input	2Ch. Analog Input, with 16Bit Resolution (0~5V, 0~10V, 4~20mA) User Selectable Input Type: Current or Voltage User Selectable Input Voltage Range: 0~5V or 0~10V	
Antenna Interface	 SMA(Female, Reverse)Connector Impedance 50Ω 		

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4. TEST EQUIPMENT

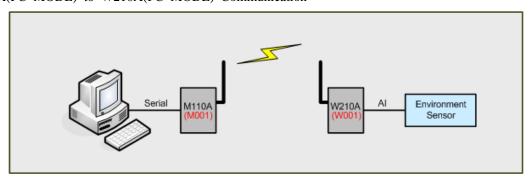
Туре	Model	Manufacture	S/N	CAL. Due
10m semi-anechoic chamber	-	RIKEN	-	-
Test Receiver	ESIB26	Rohde & Schwarz	100359	2012.05.28
Horn Antenna	BBHA9120D	Schwarzbeck	9120D-540	2013.04.13
Bilog Antenna	CBL6112D	Schaffner	22022	2013.05.27

4.1 Operation of Equipment Under Test(EUT)

The Equipment Under Test was configured for testing in a typical fashion (as a customer would normally use it). During the tests, the EUT and the supported equipments were installed to meet FCC requirement and operated in a manner and which tends to maximize its emission level in a typical application.

Channel	Frequency(MHz)
L	433.062 5
M	433.912 5
Н	434.762 5

▶ M110A(PC MODE) to W210A(PC MODE) Communication



* Communication command: M00120@/W001

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5. Transmission time & Silent time

5.1 Limits

The duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

5.2 Test Results

Channel	Transmission time
	(s)
L	0.069 14
M	0.069 14
Н	0.069 14

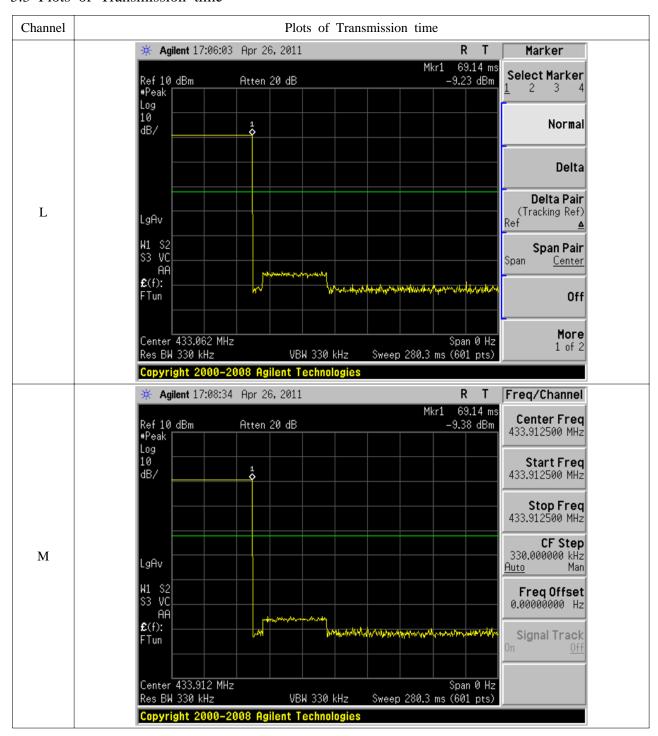
Channel	Silent time
	(s)
L	10.89
M	10.89
Н	10.89

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5.3 Plots of Transmission time



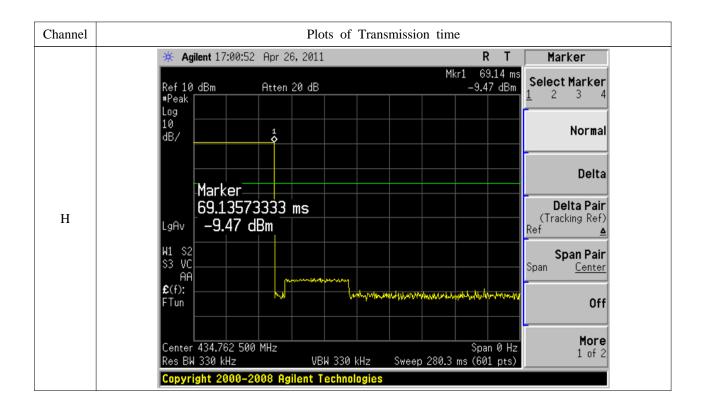
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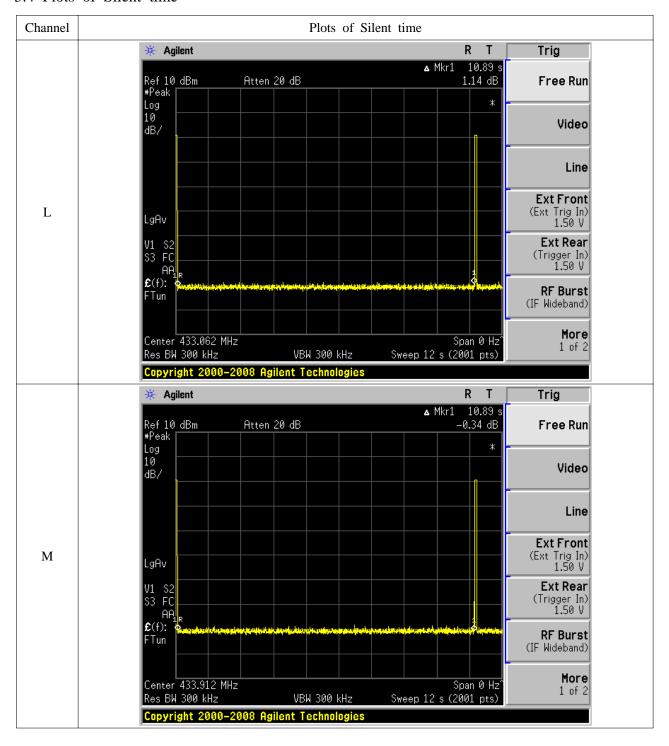
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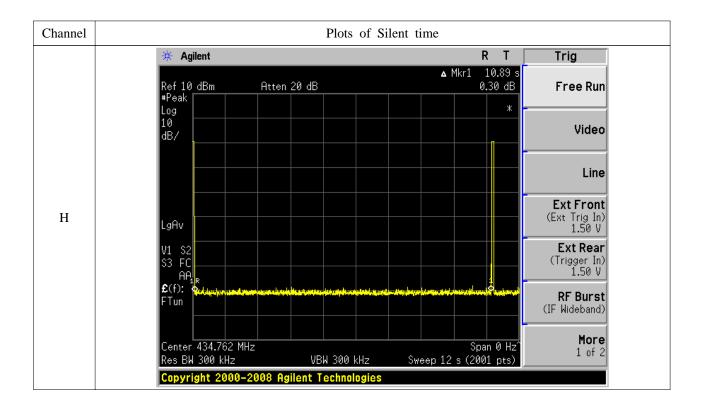
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5.4 Plots of Silent time





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6. Field strength of fundamental

6.1 Limits

The field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Funda- mental fre- quency (MHz)	Field strength of fun- damental (microvolts/ meter)	Field strength of spu- rious emission (microvolts/meter)
40.66– 40.70. 70–130 130–174 174–260 260–470 Above 470	1,000	100 50 50 to 150 ¹ 150 150 to 500 ¹ 500

¹ Linear interpolations.

Channel	Frequency(MHz)	Field strength of fundamental(dBuV/m)
L	433.062 5	72.84
M	433.912 5	72.87
Н	434.762 5	72.89

6.2 Test Results

Frequency -	Correction Factor A		Antenna	Peak					Average					
(MHz)	Antenna (dB/m)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV/m)	Margin (dB)	
433.06	16.29	3.51	2.00	Н	92.84	69.05	88.85	3.99	Н	72.84	46.91	66.71	6.13	
433.91	16.30	3.60	2.00	Н	92.87	68.72	88.62	4.25	Н	72.87	46.77	66.67	6.20	
434.76	16.30	3.60	2.00	Н	92.89	68.48	88.38	4.51	Н	72.89	47.35	67.25	5.64	

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7. Field strength of the spurious emissions & Radiated emissions

7.1 Limits

The field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Funda- mental fre- quency (MHz)	Field strength of fun- damental (microvolts/ meter)	Field strength of spu- rious emission (microvolts/meter)
40.66- 40.70. 70-130 130-174 174-260 260-470 Above 470	1,000	100 50 50 to 150 ¹ 150 150 to 500 ¹ 500

¹ Linear interpolations.

Channel	Engage (MII-)	Field strength of spurious	Field strength of spurious
Channel	Frequency(MHz)	emissions(dBuV/m), AV	emissions(dBuV/m), PK
L	433.062 5	52.84	72.84
M	433.912 5	52.87	72.87
Н	434.762 5	52.89	72.89

15.205

MHz	MHz	MHz	GHz
0.090-0.110	16.42–16.423	399.9–410	4.5–5.15
10.495-0.505	16.69475-16.69525	608–614	5.35-5.46
2.1735–2.1905	16.80425-16.80475	960–1240	7.25–7.75
4.125–4.128	25.5-25.67	1300–1427	8.025-8.5
4.17725–4.17775	37.5–38.25	1435-1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5-1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108-121.94	1718.8–1722.2	13.25-13.4
6.31175–6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5–2500	17.7–21.4
8.37625-8.38675	156.7-156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29–12.293	167.72-173.2	3332-3339	31.2–31.8
12.51975–12.52025	240-285	3345.8–3358	36.43-36.5
12.57675–12.57725	322-335.4	3600-4400	(2)
13.36–13.41.			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

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² Above 38.6



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15.209

Frequency(MHz)	Field strength (uV/m)	Measurement distance(meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

7.2 Test Procedure

Final measurements of radiated emission were made on the 10 m semi-anechoic chamber. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emission in amplitude, direction and frequency. This process was repeated during final radiated emission measurements on the 10 m semi-anechoic chamber range, at each frequency, in order to ensure that maximum emissions amplitudes were attained.

The radiated emission test was performed with EUT exercise program loaded, and the emissions were scanned between 30 MHz to 10th harmonic frequency using a ESIB26 test receiver. The test receiver's 6 dB bandwidth was set to 120 kHz(30 MHz ~ 1 GHz) and 1 MHz (above 1 GHz), and the receiver was operated in the CISPR quasi-peak(30 MHz ~ 1 GHz) and peak/average(above 1 GHz) detection mode.

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum emission levels. Measurements were taken using both HORIZONTAL and VERTICAL antenna polarization, herein referred to as H and V, respectively.

F1[dBuV/m] = F2[dBuV] + AF[dB/m] + CL[dB]

F1: Final Field Strength F2:Reading AF: Antenna Factor CL: Cable Factor

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7.2 Test Results

7.2.1 Field strength of the spurious emissions

7.2.1.1 Low channel

Frequency	Correction Factor		Antenna	Peak					Average					
(MHz)	Antenna (dB/m)	Amp (dB)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV/m)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV/m)	Margin (dB)
866.13	18.80	0.00	5.10	1.00	Н	72.84	20.92	44.82	28.02	Н	52.84	3.52	27.42	25.42
1 657	25.79	24.13	6.94	2.00	V	72.84	29.60	38.20	34.64	V	52.84	15.70	24.30	28.54

7.2.1.2 Middle channel

Frequency	Correction Factor		Antenna	Peak				Average						
(MHz)	Antenna (dB/m)	Amp (dB)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV/m)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV/m)	Margin (dB)
867.83	18.80	0.00	5.10	3.00	V	72.87	18.10	42.00	30.87	V	52.87	-1.30	22.60	30.27
1 657	25.79	24.13	6.94	2.50	V	72.87	30.90	39.50	33.37	V	52.87	14.40	23.00	29.87

7.2.1.3 High channel

Emaguamay	Correction Factor		Antenna	Peak				Average						
Frequency (MHz)	Antenna (dB/m)	Amp (dB)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV/m)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV/m)	Margin (dB)
869.53	18.81	0.00	5.09	1.00	Н	72.89	18.09	36.90	35.99	Н	52.89	-4.50	19.40	33.49
1 657	25.79	24.13	6.94	1.50	Н	72.89	28.50	37.10	35.79	Н	52.89	14.70	23.30	29.59

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7.2.2 Radiated emissions

7.2.2.1 30 MHz ~ 1GHz

7.2.2.1.1 Low channel

Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Cable Loss Factor (dB)	Antenna Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
401.28	4.28	QP	Н	1.00	2.00	3.53	15.97	23.78	46.02	22.24

7.2.2.1.2 Middle channel

Free	Test quency MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Cable Loss Factor (dB)	Antenna Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40	09.06	4.53	QP	V	151.00	1.00	3.55	16.05	24.13	46.02	21.89

7.2.2.1.3 High channel

Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Cable Loss Factor (dB)	Antenna Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
407.11	5.79	QP	Н	350.00	2.00	3.57	16.03	25.39	46.02	20.63

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7.2.2.2 1 GHz ~ 10th Harmonics

7.2.2.2.1 Low channel

Eraguanav	Corr	ection F	tion Factor Antenna		Peak					Average				
Frequency (GHz)	Antenna (dB/m)	Amp (dB)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1.329	25.41	24.00	5.99	1.50	Н	73.98	32.70	40.10	33.88	Н	53.98	18.40	25.80	28.18

7.2.2.2.2 Middle channel

Frequency	Correction Factor		Antenna	Peak					Average					
(GHz)	Antenna (dB/m)	Amp (dB)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

7.2.2.2.3 High channel

Frequency	Corr	Correction Factor		Antenna	Peak				Average					
(GHz)	Antenna (dB/m)	Amp (dB)	Cable (dB)	Height (m)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)	Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1.329	25.41	24.00	5.99	1.50	Н	73.98	33.60	41.00	32.98	Н	53.98	18.20	25.60	28.38

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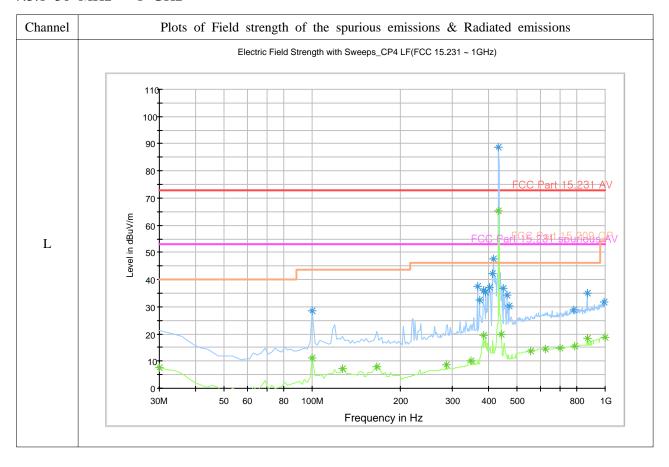
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7.3 Plots of Field strength of the spurious emissions & Radiated emissions

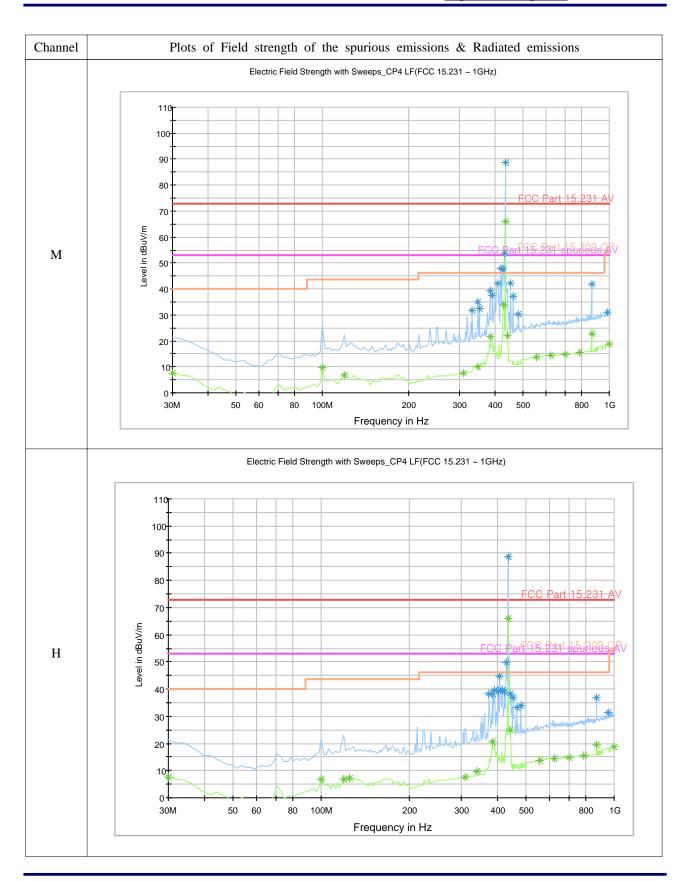
7.3.1 30 MHz ~ 1 GHz



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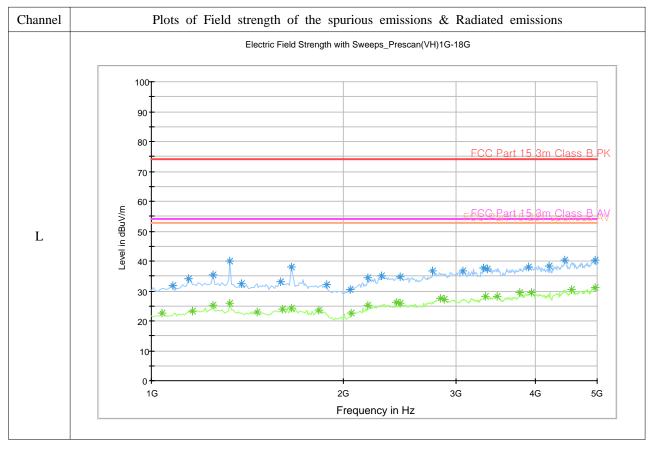
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7.3.2 1 GHz ~ 10th Harmonics

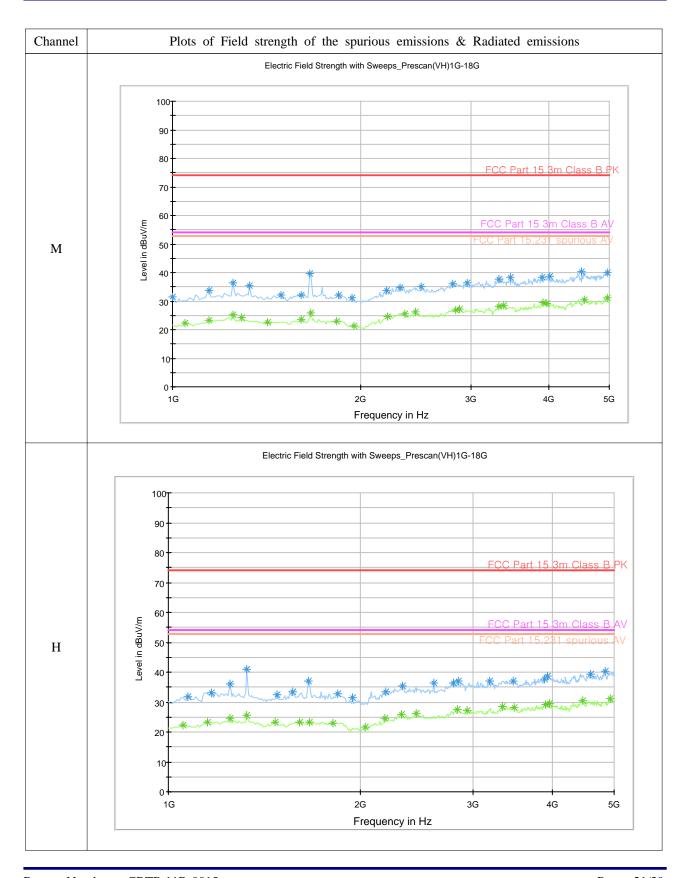


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8. 20 dB bandwidth

8.1 Definition

Bandwidth is determined at the points 20 dB down from the modulated carrier.

8.2 Limits

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz.

For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.

Channel	Frequency	20 dB bandwidth
Channel	(MHz)	(MHz)
L	433.062 5	1.082 7
M	433.912 5	1.084 8
Н	434.762 5	1.086 9

8.3 Test Results

Channel	20 dB bandwidth
Channel	(MHz)
L	0.339 679
M	0.336 673
Н	0.336 673

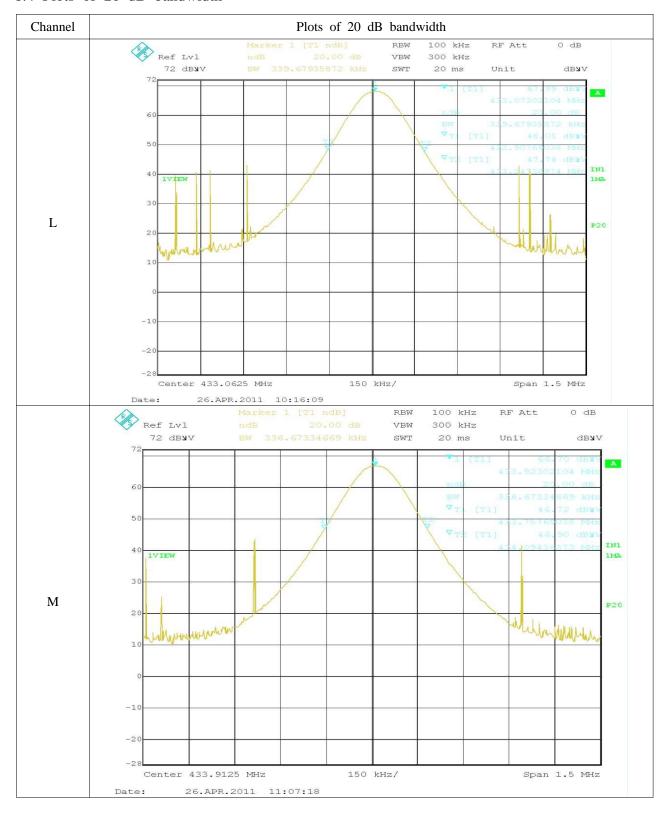
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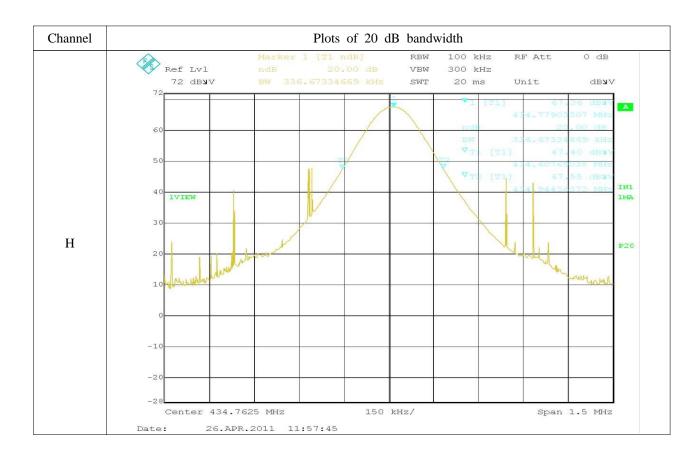
#685-3, Yangcheong, Ochang, Cheongwon, Chungbuk, Korea TEL:+82-43-270-2400 FAX:+82-43-270-2499 http://www.cbtp.or.kr

8.4 Plots of 20 dB bandwidth





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9. FCC Labelling Requirements

9.1 FCC Statement

Product shall be labelled the following statement in the manual:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

When the device is so small or for such use that it is not practicable to place the statement on it, the information shall be placed in prominent location in the instruction manual or pamphlet supplied to the user. However, the FCC identifier or unique identifier, as appropriate, must be displayed on the device.

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9.2 Label & Label Location

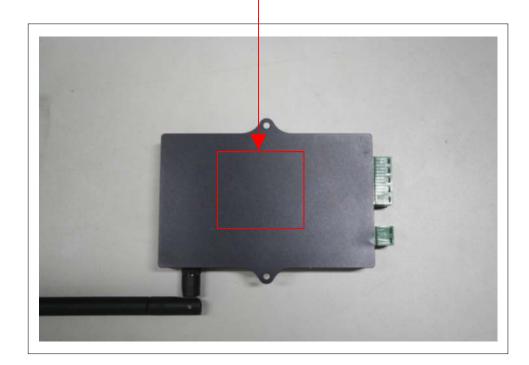


SEBINE Technology, Inc.

Model: W210A

FCC ID: Y9AW210A

Made in Korea



Report Number: CBTP-11R-0015

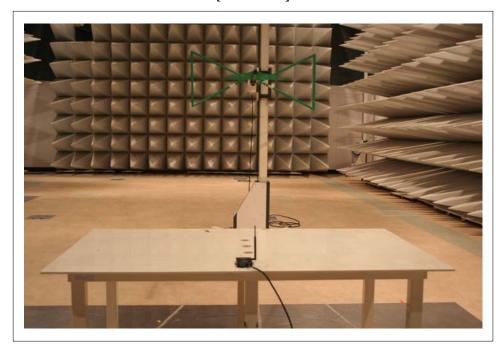
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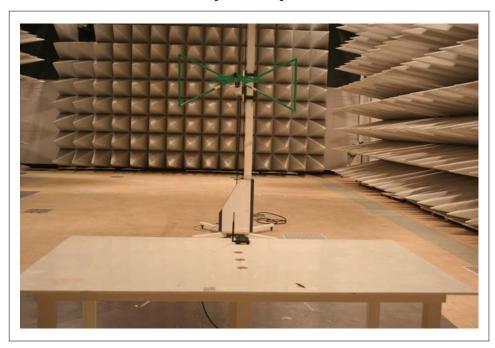
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12. Test Setup Photographs

12.1 Radiated Emission Measurement, 30 MHz to 1000 MHz [Front View]



[Rear View]



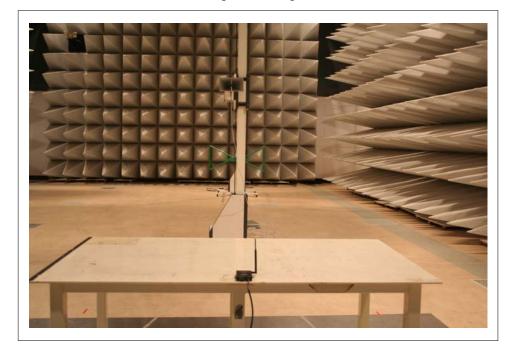
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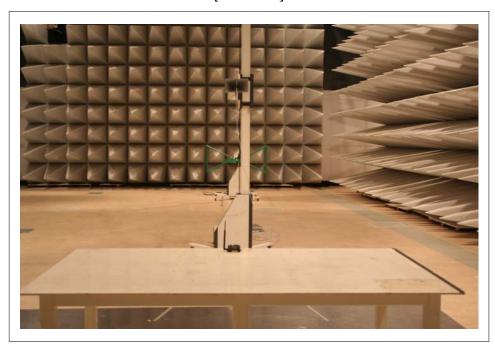


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12.2 Radiated Emission Measurement, 1.0 GHz to 5.0 GHz [Front View]



[Rear View]



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13. Photographs of Equipment Under Test(EUT)

[Front View]



[Rear View]



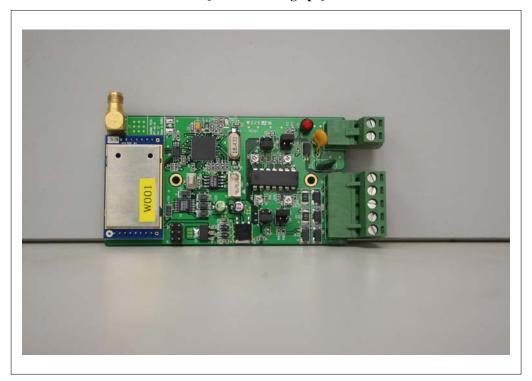
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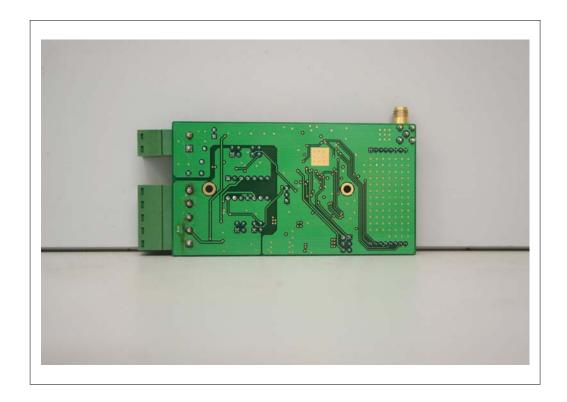
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[Internal Photograph]





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