

	ESTECH Co., Ltd. <small>Rm 1015, World Venture Center 11, 426-5 Gasan-dong, Guncheon-gu, Seoul, 158-803, Korea</small>	   	Electromagnetic Interference Test Report
---	--	--	---

Test Report for FCC

FCC ID:V2X-PM155

Report Number		ESTF150712-016		
Applicant	Company name	POINTMOBILE CO., LTD		
	Address	1412, World Meridian Venture Center-1, 60-24, Gasan-dong, Geumcheon-gu, Seoul, Korea 153-781		
	Telephone	82-2-2113-7275		
Product	Product name	PDA		
	Model No.	CHD FIVE	Manufacturer	POINTMOBILE CO., LTD
	Serial No.	NONE	Country of origin	KOREA
Test date	2007-11-15 ~ 2007-11-16		Date of issue	20-Dec-07
Testing location	ESTECH. Co., Ltd. 97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea			
Standard	FCC PART 15 2007 , ANSI C 63.4 2003			
Measurement facility registration number		94696		
Tested by	Engineer J.H.Kim		(Signature)	
Reviewed by	Engineering Manager J.M.Yang		(Signature)	
Abbreviation	OK, Pass = Passed, Fail = Failed, N/A = not applicable			

* Note

- Basic model is CHD Five and additional model is Metrologic SP58xx Series.
- This test report is not permitted to copy partly without our permission
- This test result is dependent on only equipment to be used
- This test result based on a single evaluation of one sample of the above mentioned



ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

Contents

1. Laboratory Information	3
2. Description of EUT	4
3. Test Standards	5
4. Measurement condition	6
5. 6dB Bandwidth Measurement	9
5.1 Test procedure	9
5.2 Test instruments and measurement setup	9
5.3 Measurement results	9
5.4 Trace data	11
6. Maximum Peak Output Power	15
6.1 Test procedure	15
6.2 Measurement results	15
7. Transmitter Power Spectral Density	16
7.1 Test procedure	16
7.2 Test instruments and measurement setup	16
7.3 Measurement results	16
7.4 Trace data	18
8. Band-Edge and Out of Band Emissions	22
8.1 Test procedure	22
8.2 Test instruments and measurement setup	22
8.3 Measurement results	22
8.4 Trace data of band-edge & out of emissioin	24
9. Measurement of radiated emission	32
9.1 Measurement equipment	32
9.2 Environmental conditions	32
9.3 Test data(802.11b)	33
9.4 Test data(802.11g)	37
9.5 Restricted Band Edges	41
10. Measurement of conducted emission	49
10.1 Measurement equipment	49
10.2 Environmental conditions	49
10.3 Test data(802.11b)	50
10.4 Test data(802.11g)	51

Appendix 1. Spectral diagram

Appendix 2. Antenna Requirement



1. Laboratory Information

1.1 General

This EUT (Equipment Under Test) has been shown to be capable of compliance with the applicable technical standards and is tested in accordance with the measurement procedures as indicated in this report.

ESTECH Lab attests to accuracy of test data. All measurement reported herein were performed by ESTECH Co., Ltd.

ESTECH Lab assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

1.2 Test Lab.

Corporation Name : ESTECH Co. Ltd

Head Office : Rm 1015, World Venture Center II, 426-5, Gasan-dong, Geumcheon-gu, Seoul, Korea
(Safety & Telecom. Test Lab)

EMC Test Lab : 58-1 Osan-Ri, GaNam-Myon, YeoJoo-Gun, KyungKi-Do, Korea
97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea

1.3 Official Qualification(s)

MIC : Granted Accreditation from Ministry of Information & Communication for EMC, Safety and Telecommunication

KOLAS : Accredited Lab By Korea Laboratory Accreditation Schema base on CENELEC requirements

FCC : Filed Laboratory at Federal Communications Commission

VCCI : Granted Accreditation from Voluntary Control Council for Interference from ITE

2. Description of EUT

2.1 Summary of Equipment Under Test

Product Name	: PDA
Model Number	: CHD FiVE
Modulation Type	: WLAN(DSSS, OFDM)
Transfer Rate	: up to 54Mbps
Number of Channel	: 802.11b and 802.11g:11
Channel Spacing	: 802.11b and 802.11g: 5MHz
Output Power	: 802.11b: 13.3dBm, 802.11g: 12.3dBm
Serial Number	: NONE
Manufacturer	: POINTMOBILE CO., LTD
Country of origin	: KOREA
Rating	: AC 120V ~ /60Hz 0.3A , OUTPUT : DC 5V 2.0A
Receipt Date	: 2007-11-21
X-tal list(s)	: 32.768KHz/3.6864MHz/24.576MHz/29.4912MHz

2.2 General descriptions of EUT

This device fully compatible with the 802.11b standard to provide a wireless data rate of 11Mbps.
 This device fully compatible with the 802.11g standard to provide a wireless data rate of up to 54Mbps

For the detailed features, please refer to the manufacturer's specifications or User's Manual.

3. Test Standards

Test Standard : FCC PART 15 (2007)

This Standard sets out the regulations under which an intentional, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of Part 15 devices.

Test Method : ANSI C 63.4 (2003)

This standard sets forth uniform methods of measurement of radio-frequency (RF) signals and noise emitted from both unintentional and intentional emitters of RF energy in the frequency range 9 kHz to 40 GHz. Methods for the measurement of radiated and AC power-line conducted radio noise are covered and may be applied to any such equipment unless otherwise specified by individual equipment requirements. These methods cover measurement of certain devices that deliberately radiate energy, such as intentional emitters, but does not cover licensed transmitters. This standard is not intended for certification/approval of avionic equipment or for industrial, scientific, and medical (ISM) equipment. These methods apply to the measurement of individual units or systems comprised of multiple units.

Summary of Test Results

Applied Standard : 47 CFR Part 15, Subpart C				
Standard	Test Type	Result	Remark	Limit
15.207	AC Power Conducted Emission	Pass	Meet the requirement	
15.247(a)(2)	Spectrum Bandwidth of a DSSS System	Pass	Meet the requirement	Min. 500kHz
15.247(b)	Maximum Peak output power	Pass	Meet the requirement	Max. 30dBm
15.247(c)	Transmitter Radiated Emission	Pass	Meet the requirement	Table 15.209
15.247(d)	Power Spectral Density	Pass	Meet the requirement	Max. 8dBm
15.247(c)	Band Edge Measurement	Pass	Meet the requirement	20dB less



ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

4. Measurement Condition

4.1 EUT Operation(For 802.11b and 802.11g)

a. Channel

Ch.	Frequency	Ch.	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

b. Measurement Channel : WLAN: Low(2412MHz), Middle(2437Mhz),High(2462MHz)

c. Test Mode : Continuous Output, DSSS, OFDM

d. Test rate : the worst case of rate 802.11b(11Mbps), 802.11g(54Mbps)



ESTECH Co., Ltd.

Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea

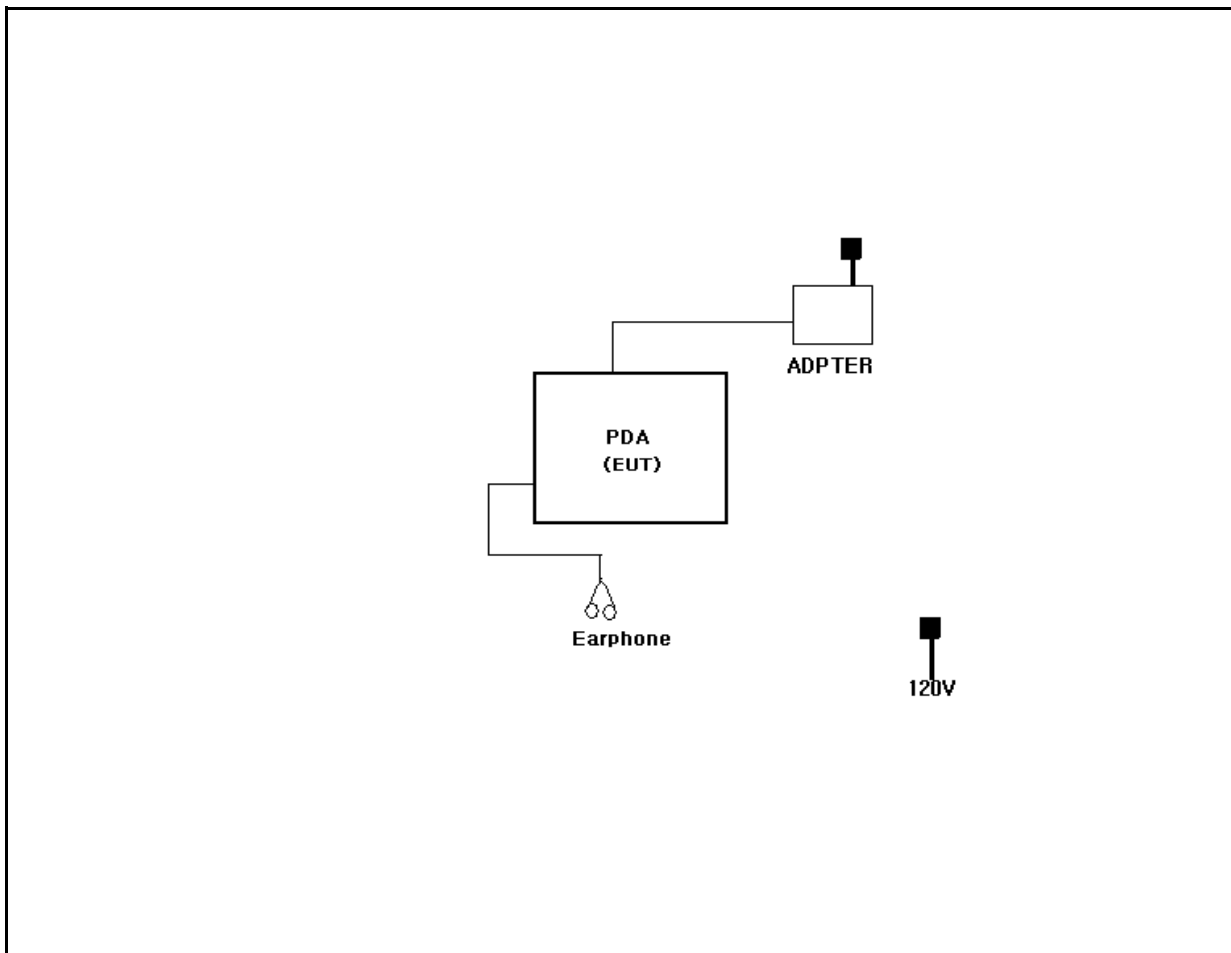


**Electromagnetic
Interference
Test Report**

4.2 EUT Operation.

- * The EUT was in the following operation mode during all testing
- * The operational conditions of the EUT was determined by the manufacturer according to the typical use of the EUT with respect to the expected highest level of emission
- * The computer system ran a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.3 Configuration and Peripherals





ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

4.4 EUT and Support equipment

Equipment Name	Model Name	S/N	Manufacturer	Remark (FCC ID)
PDA	CHD FIVE	NONE	POINTMOBILE CO., LTD	EUT
ADAPTER	PSC11R-05D	P72010387A1	Phihong(Dongguan)Electronics Co.,Ltd	
Earphone	NONE	NONE	LG Electronics Inc.	

4.5 Cable Connecting

Start Equipment		End Equipment		Cable Standard		Remark
Name	I/O port	Name	I/O port	Length	Shielded	
PDA	POWER	Adapter	-	2	Unshielded	
PDA	Earphone	Earphone	-	1	Unshielded	

5. 6dB Bandwidth Measurement

5.1 Test procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured by spectrum analyzer. The 6dB bandwidth is defined as the bandwidth at 6dB below from peak power point. The minimum of 6dB bandwidth measurement is 0.5MHz.

5.2 Test instruments and measurement setup

The spectrum analyzer is set to as following.

- . RBW= 100KHz
- . VBW= 100KHz
- . Span= 20MHz
- . Sweep= suitable duration based on the EUT specification.

6dB Bandwidth Test Instruments

Description	Model	Serial Number	Cal. Due Date
Spectrum Analyzer	E4407B	US42041281	2008-03-02
RF Cable	Length: 20cm	-	
-Spectrum Analyzer <=> EUT	Loss: 0.7dB	-	

5.3 Measurement results

EUT	PDA	MODEL	CHD FIVE
MODE	CCK	ENVIRONMENTAL CONDITION	24°C, 44%RH
INPUT POWER	120Vac, 60Hz		

(802.11b)

CHANNEL	Channel Frequency (MHz)	Bandwidth at 6dB below(MHz)	Minimum Limit (MHz)	PASS/FAIL
1	2412	9.64	0.5	PASS
6	2437	9.70	0.5	PASS
11	2462	9.50	0.5	PASS



ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

EUT	PDA	MODEL	CHD FIVE
MODE	OFDM	ENVIRONMENTAL CONDITION	24°C, 43%RH
INPUT POWER	120Vac, 60Hz		

(802.11g)

CHANNEL	Channel Frequency (MHz)	Bandwidth at 6dB below(MHz)	Minimum Limit (MHz)	PASS/FAIL
1	2412	16.42	0.5	PASS
6	2437	16.33	0.5	PASS
11	2462	16.34	0.5	PASS



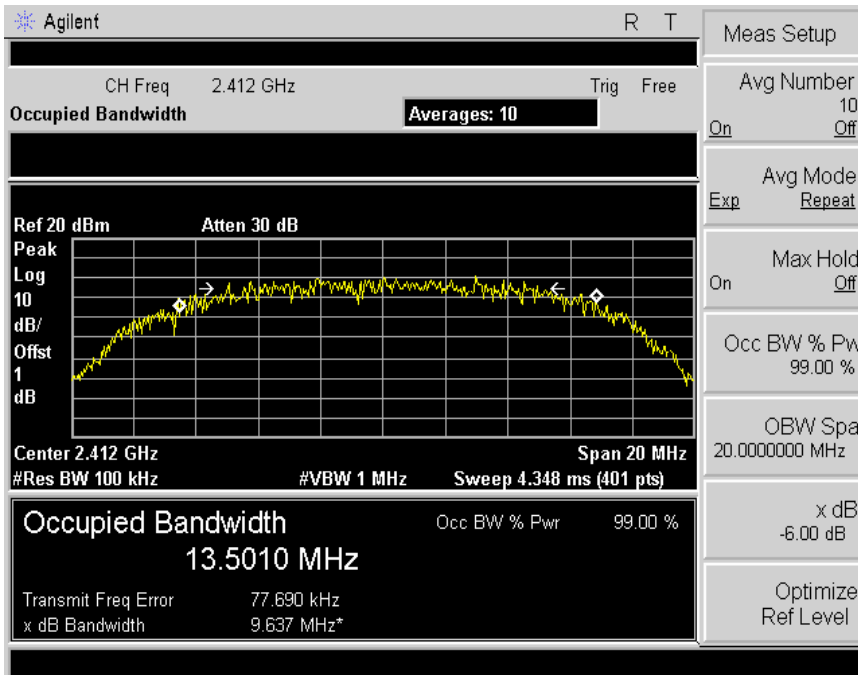
ESTECH Co., Ltd.

Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea

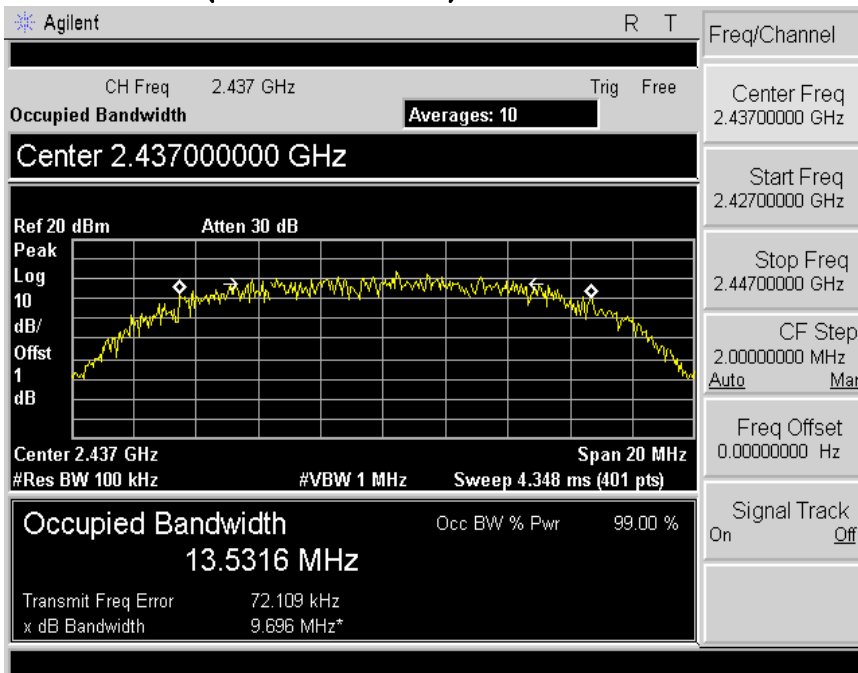


**Electromagnetic
Interference
Test Report**

5.4 Trace data CCK (802.11b-1ch)



CCK (802.11b-6ch)





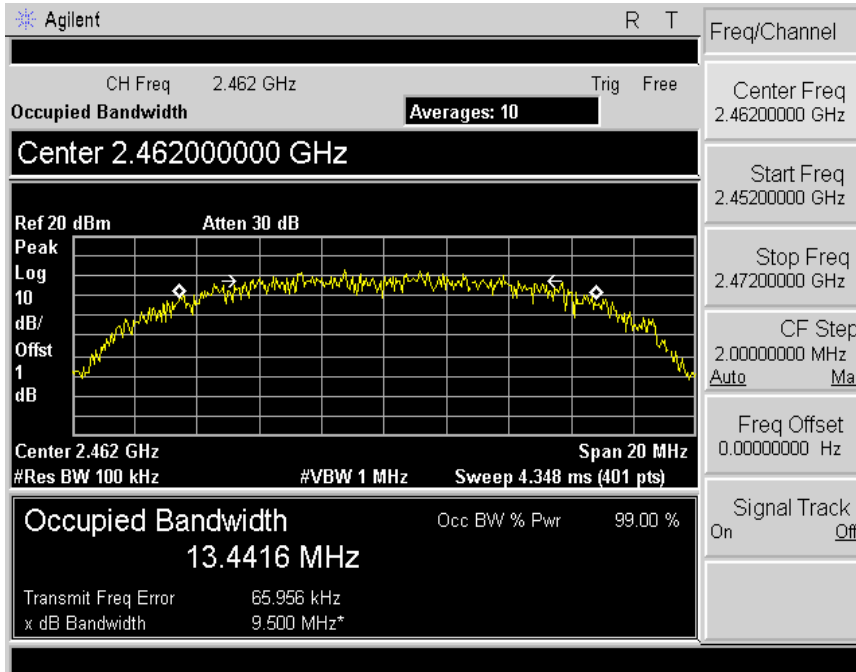
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Gumcheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

CCK (802.11b-11ch)





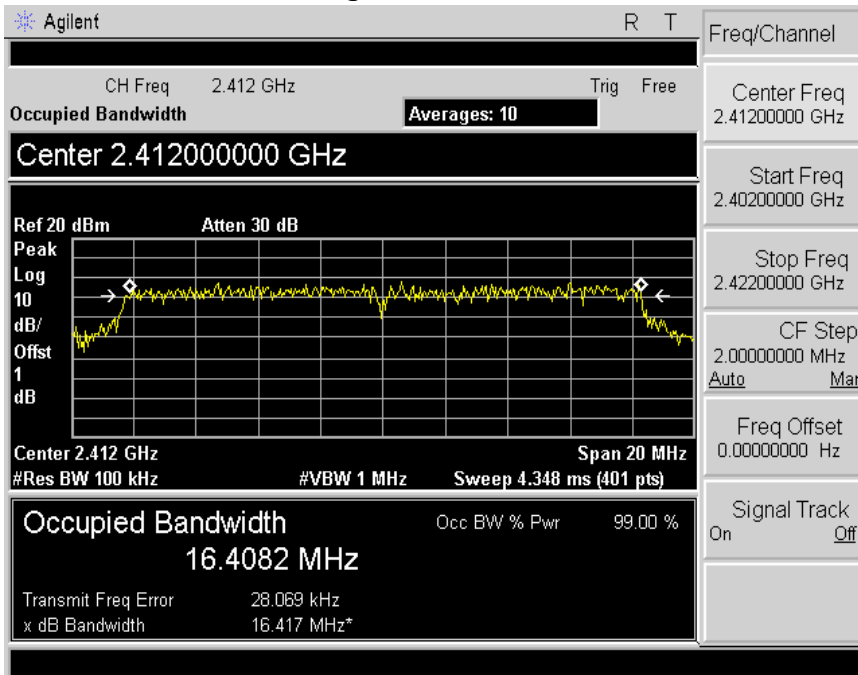
ESTECH Co., Ltd.

Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea

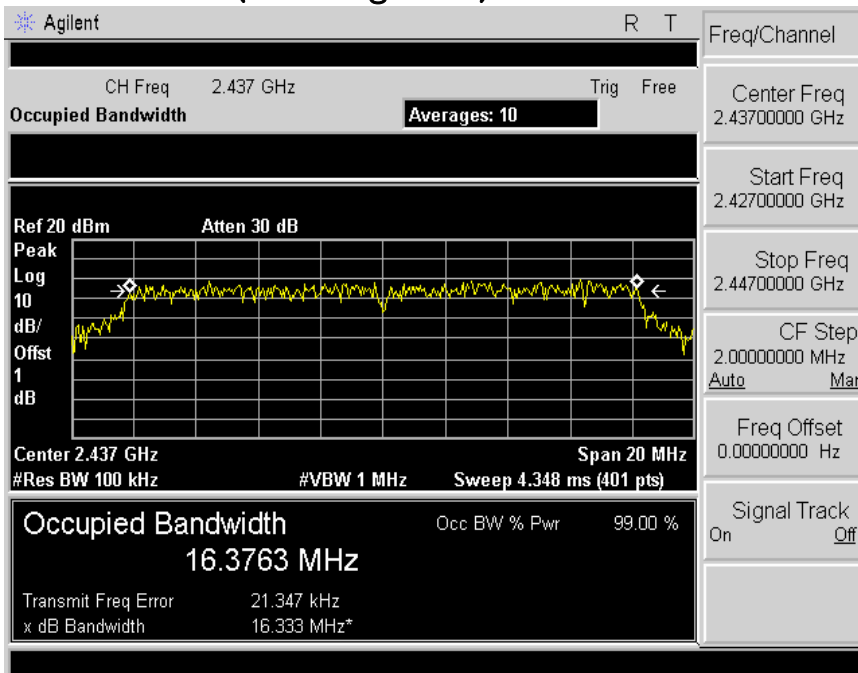


**Electromagnetic
Interference
Test Report**

5.4 Trace data OFDM (802.11g-1ch)



OFDM (802.11g-6ch)





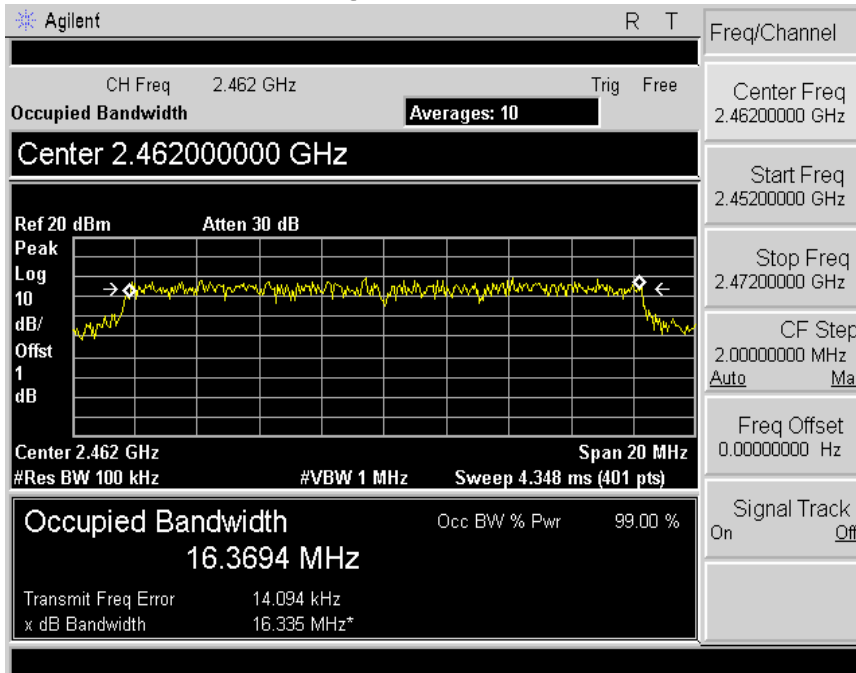
ESTECH Co., Ltd.

Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

OFDM (802.11g-11ch)



6. MAXIMUM PEAK OUTPUT POWER

6.1 Test procedure

The transmitter antenna terminal is connected to the input of a RF power sensor. Measurement is made while EUT is operating in transmission mode at the appropriate center frequency. The maximum peak output power measurement is 30dBm.

Maximum Peak Output Power Test Instruments

Description	Model	Serial Number	Cal. Due Date
Power Meter	HP E4418A	GB38272722	2008-03-02
Power Sensor	HP 8481A	3318A96478	2008-03-02
RF Cable:	Length: 20cm	-	
-Spectrum Analyzer <=> EUT	Loss: 1.0 dB	-	

6.2 Measurement results

EUT	PDA	MODEL	CHD FIVE
MODE	CCK	ENVIRONMENTAL CONDITION	24 °C, 43%RH
INPUT POWER	120Vac, 60Hz		

CHANNEL	Channel Frequency (MHz)	Peak Power Output(dBm)		Limit[1W] (dBm)	PASS/FAIL
		(dBm)	(W)		
1	2412	12.4	0.017	30.0	PASS
6	2437	13.3	0.021	30.0	PASS
11	2462	13.2	0.021	30.0	PASS

(802.11g)

EUT	PDA	MODEL	CHD FIVE
MODE	OFDM	ENVIRONMENTAL CONDITION	24 °C, 43%RH
INPUT POWER	120Vac, 60Hz		

CHANNEL	Channel Frequency (MHz)	Peak Power Output(dBm)		Limit[1W] (dBm)	PASS/FAIL
		(dBm)	(W)		
1	2412	11.9	0.015	30.0	PASS
6	2437	12.3	0.017	30.0	PASS
11	2462	11.8	0.015	30.0	PASS

7. Transmitter power spectral density

7.1 Test procedure

The peak power density was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency. The maximum of power spectral density measurement is 8dBm.

7.2 Test instruments and measurement setup

The spectrum analyzer is set to as following.

- . RBW= 3KHz
- . VBW= 30KHz
- . Span= 1.5MHz
- . Sweep= 500 seconds (It is allowed to be longer than span/3kHz.)

The peak power density Test Instruments

Description	Model	Serial Number	Cal. Due Date
Spectrum Analyzer	E4407B	US42041281	2008-03-02
RF Cable	Length: 20cm	-	
-Spectrum Analyzer <=> EUT	Loss: 0.7dB	-	

7.3 Measurement results

EUT	PDA	MODEL	CHD FIVE	
MODE	CCK	ENVIRONMENTAL CONDITION	23°C, 43%RH	
INPUT POWER	120Vac, 60Hz			
CHANNEL	Channel Frequency (MHz)	RF Power Spectral Density (dBm)	Maximum Limit (dBm)	PASS/FAIL
1	2412	-11.41	8.0	PASS
6	2437	-10.17	8.0	PASS
11	2462	-9.97	8.0	PASS



ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

EUT	PDA	MODEL	CHD FIVE
MODE	OFDM	ENVIRONMENTAL CONDITION	23°C, 43%RH
INPUT POWER	120Vac, 60Hz		

CHANNEL	Channel Frequency (MHz)	RF Power Spectral Density (dBm)	Maximum Limit (dBm)	PASS/FAIL
1	2412	-16.24	8.0	PASS
6	2437	-15.35	8.0	PASS
11	2462	-14.67	8.0	PASS



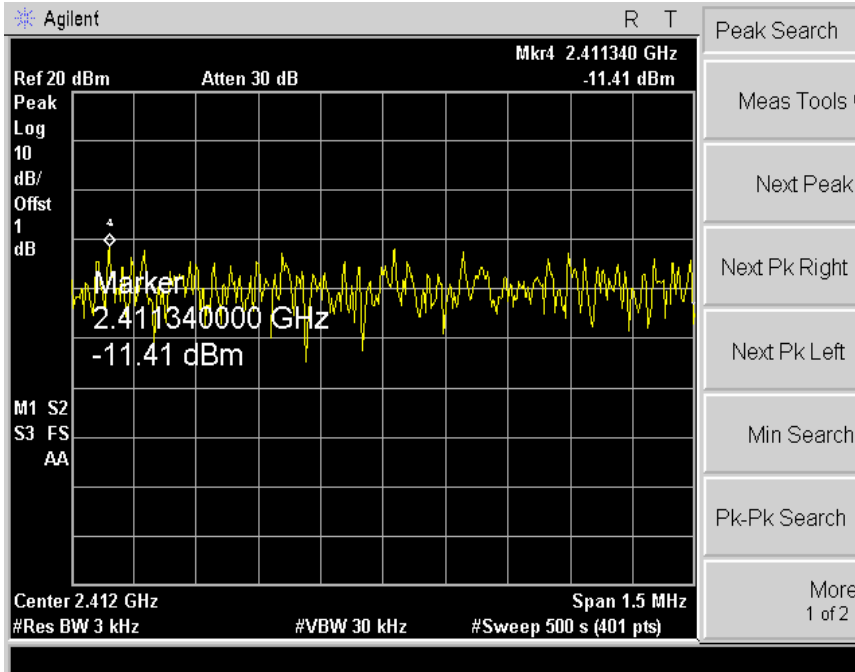
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea

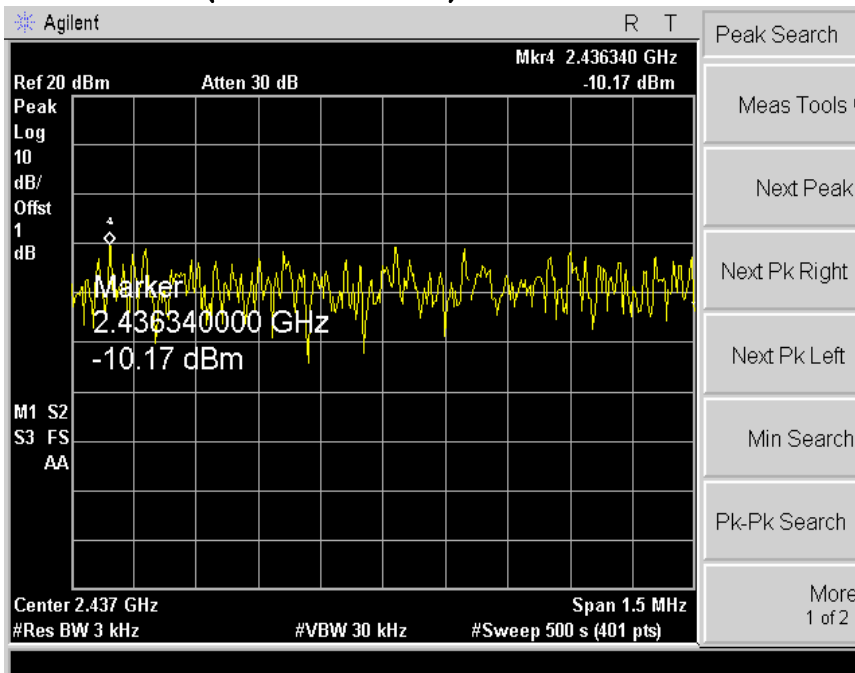


**Electromagnetic
Interference
Test Report**

7.4 Trace data CCK (802.11b-1ch)



CCK (802.11b-6ch)





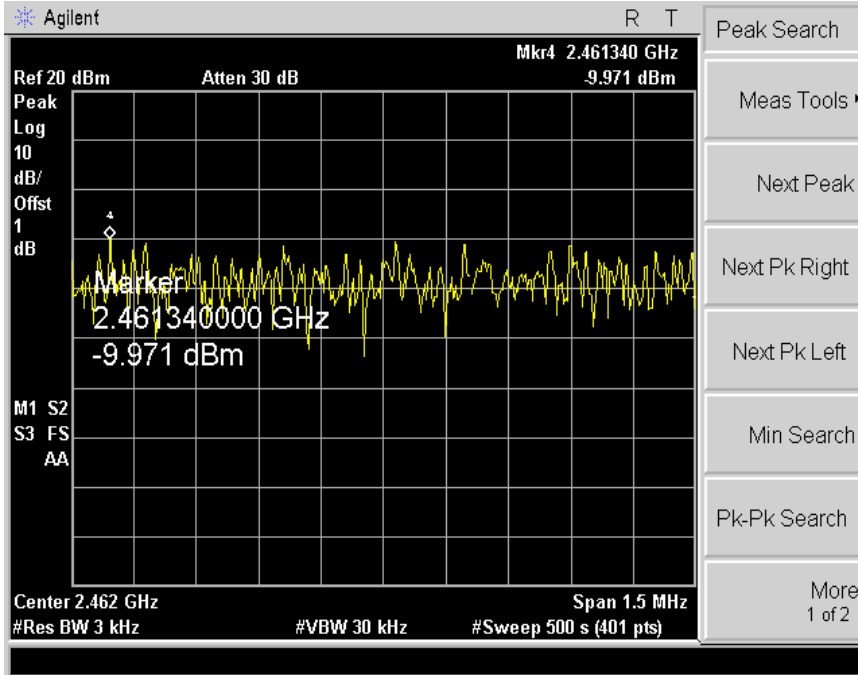
ESTECH Co., Ltd.

Rm. 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

CCK (802.11b-11ch)





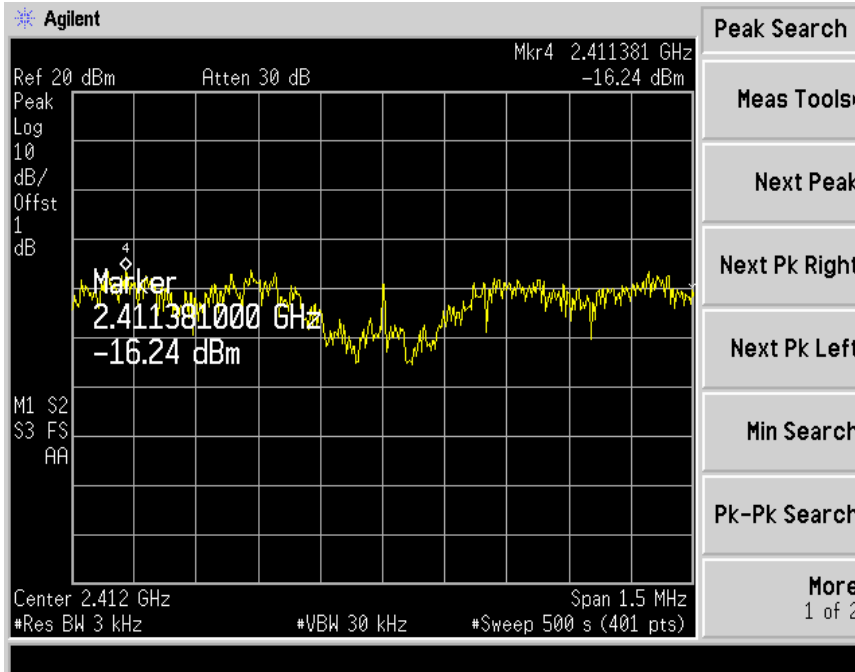
ESTECH Co., Ltd.

Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

7.4 Trace data OFDM (802.11g-1ch)



OFDM (802.11g-6ch)





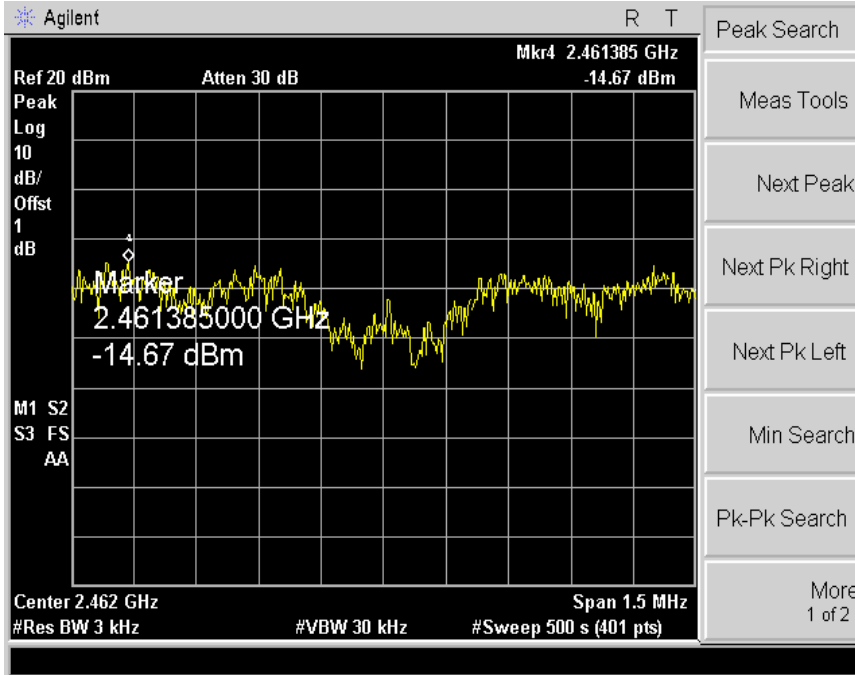
ESTECH Co., Ltd.

Rm. 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

OFDM (802.11g-11ch)



8. band-edge and out of band emissions.

8.1 Test procedure

The radio frequency power at 20dB down from the highest inband power level is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency. The band edge&out of band emission shall be at least 20dB below of the highest inband power level.

8.2 Test instruments and measurement setup

The spectrum analyzer is set to as following.

- . RBW= 100KHz(11b), 1MHz(11g)
- . VBW= 100KHz(11b), 300Hz(11g)
- . Span= suitable frequency span
- . Sweep= suitable duration based on the EUT specification.

Band Edge&Out of Emission Test Instruments

Description	Model	Serial Number	Cal. Due Date
Spectrum Analyzer	E4407B	US42041281	2008-03-02
RF Cable	Length: 20cm		-
-Spectrum Analyzer <=> EUT	Loss: 1.0dB		-

8.3 Measurement results of band-edge & out of emission

EUT	PDA	MODEL	CHD FIVE
MODE	CCK	ENVIRONMENTAL CONDITION	23°C, 43%RH
INPUT POWER	120Vac, 60Hz		

CHANNEL	Channel Frequency (MHz)	Measurement Frequency (MHz)	Peak Level at 20dB below(dBm)	Limit (MHz)
1	2412	2398.5	-48.20	Below 20dB from peak power level to band edge
11	2462	2486.0	-49.15	Below 20dB from peak power level to band edge



ESTECH Co., Ltd.

Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-806, Korea



**Electromagnetic
Interference
Test Report**

EUT	PDA	MODEL	CHD FIVE
MODE	OFDM	ENVIRONMENTAL CONDITION	23 °C , 43%RH
INPUT POWER	120Vac, 60Hz		

CHANNEL	Channel Frequency (MHz)	Measurement Frequency (MHz)	Peak Level at 20dB below(dBm)	Limit (MHz)
1	2412	2397.8	-30.39	Below 20dB from peak power level to band edge
11	2462	2483.3	-37.89	Below 20dB from peak power level to band edge



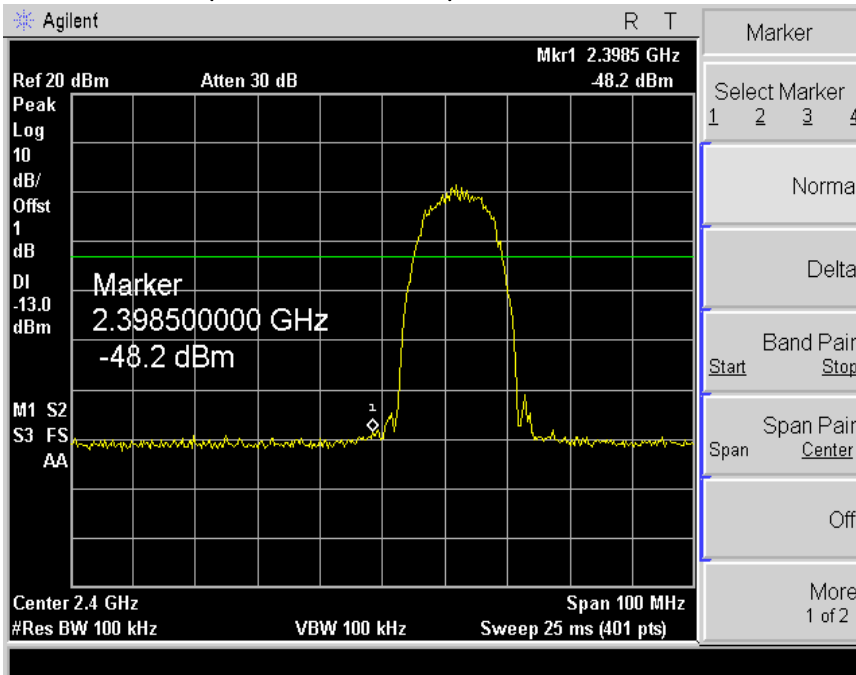
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea

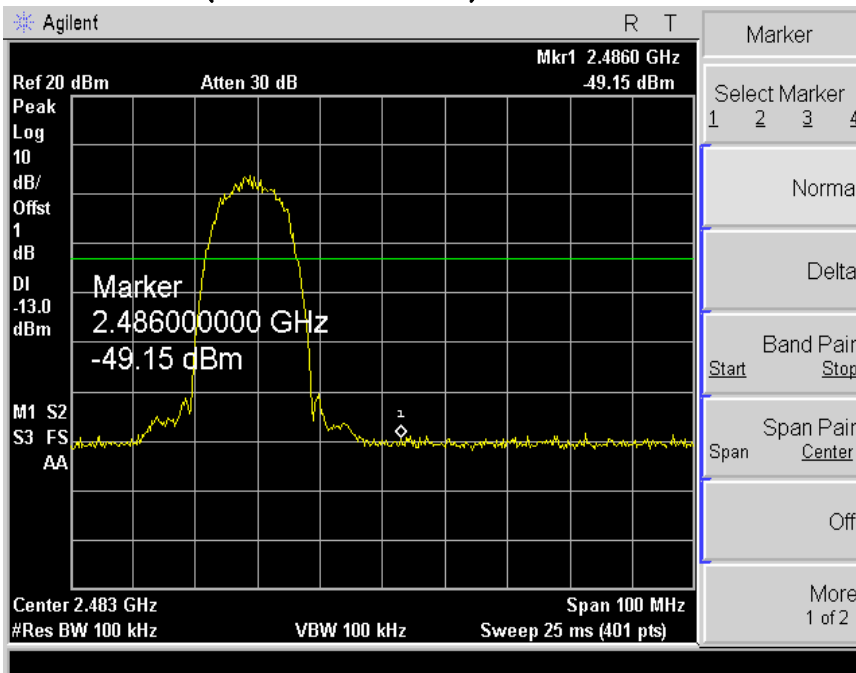


**Electromagnetic
Interference
Test Report**

8.4 Trace data of band-edge & Out of Emission CCK (802.11b-1ch)



CCK (802.11b-11ch)





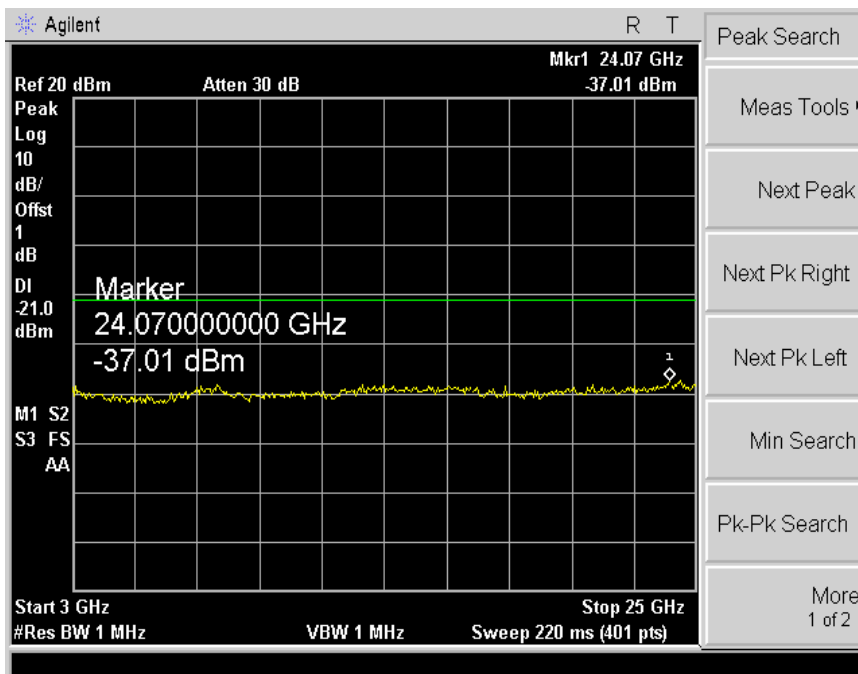
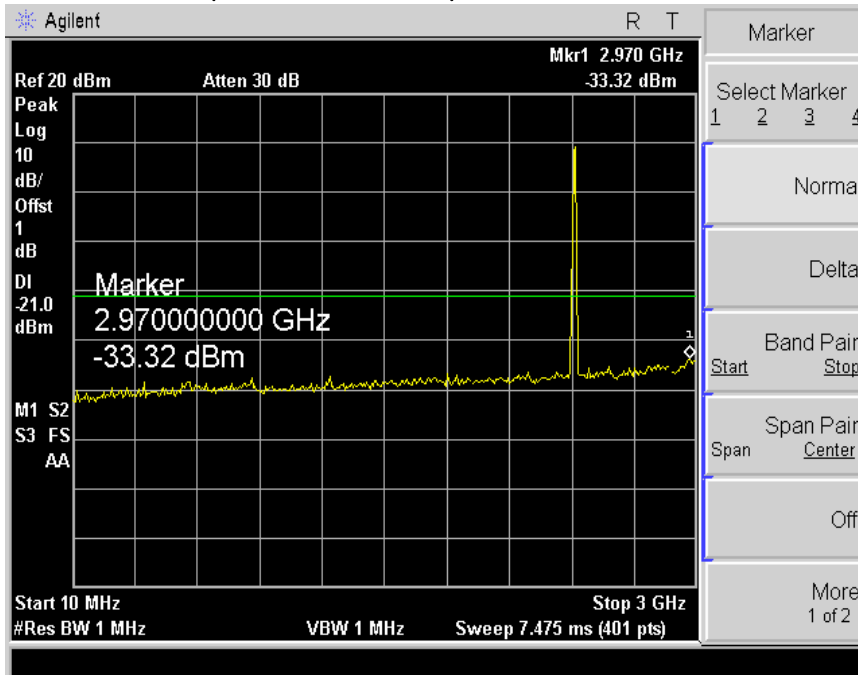
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

CCK (802.11b-1ch)





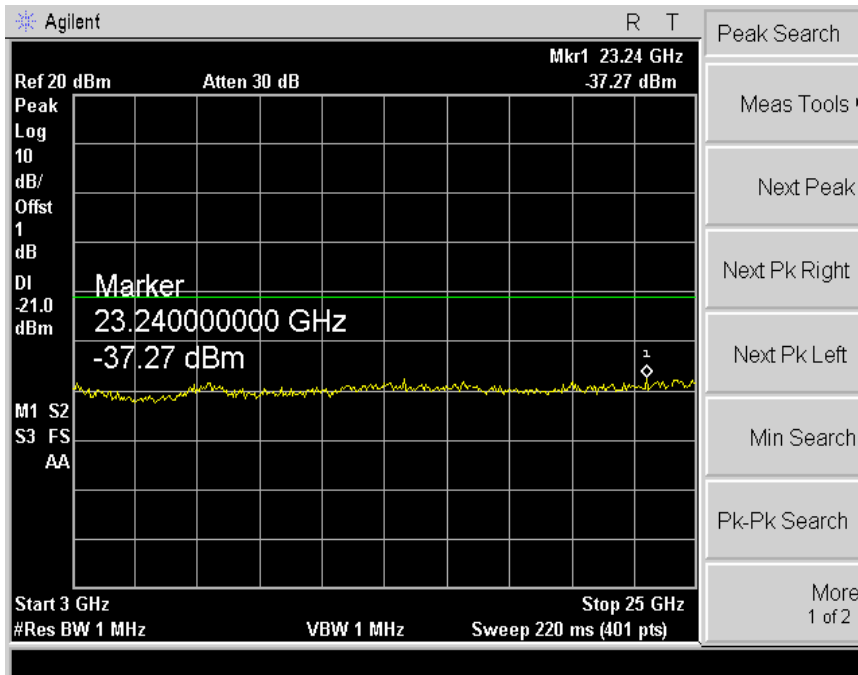
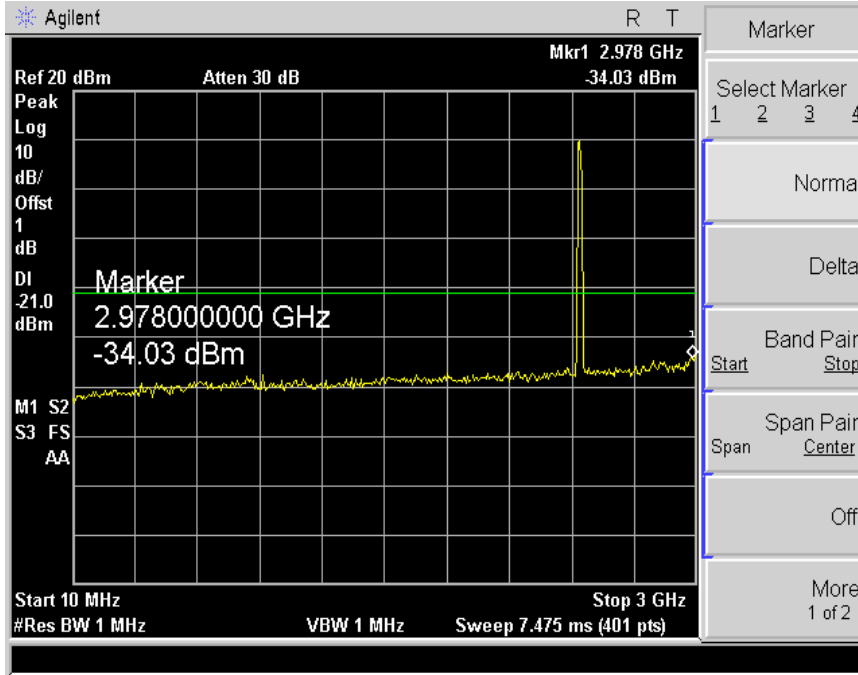
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



Electromagnetic
Interference
Test Report

CCK (802.11b-06ch)





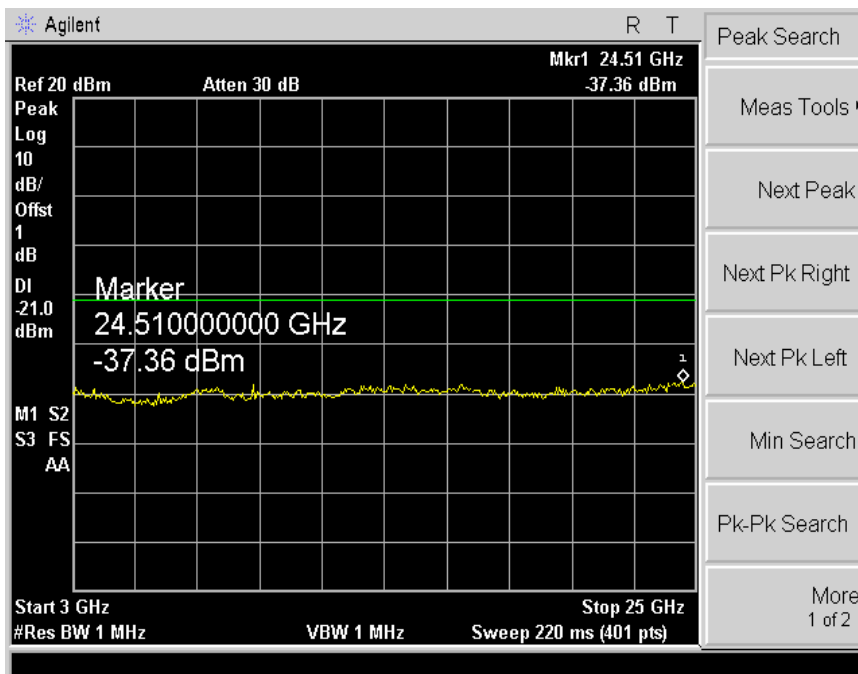
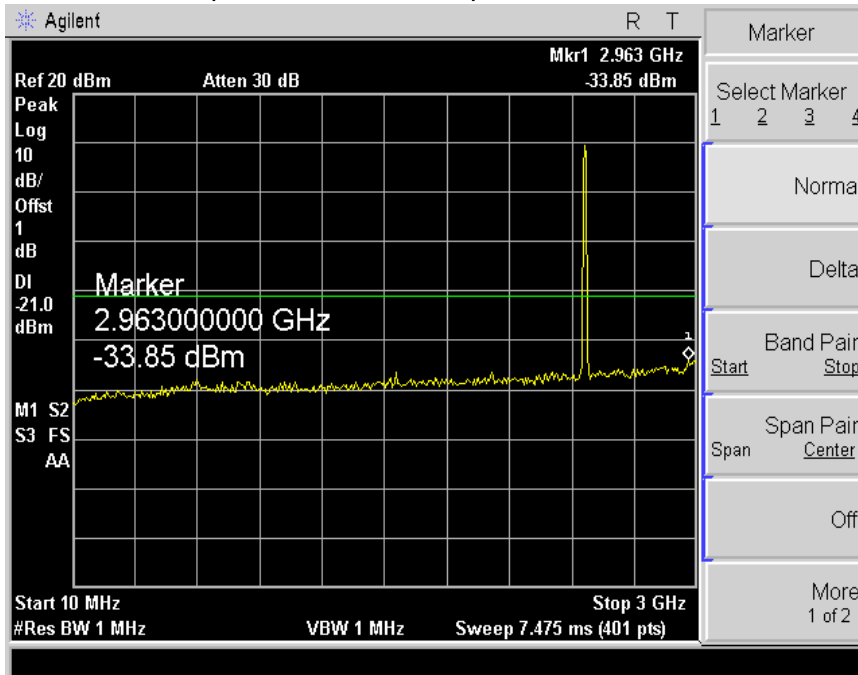
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

CCK (802.11b-11ch)





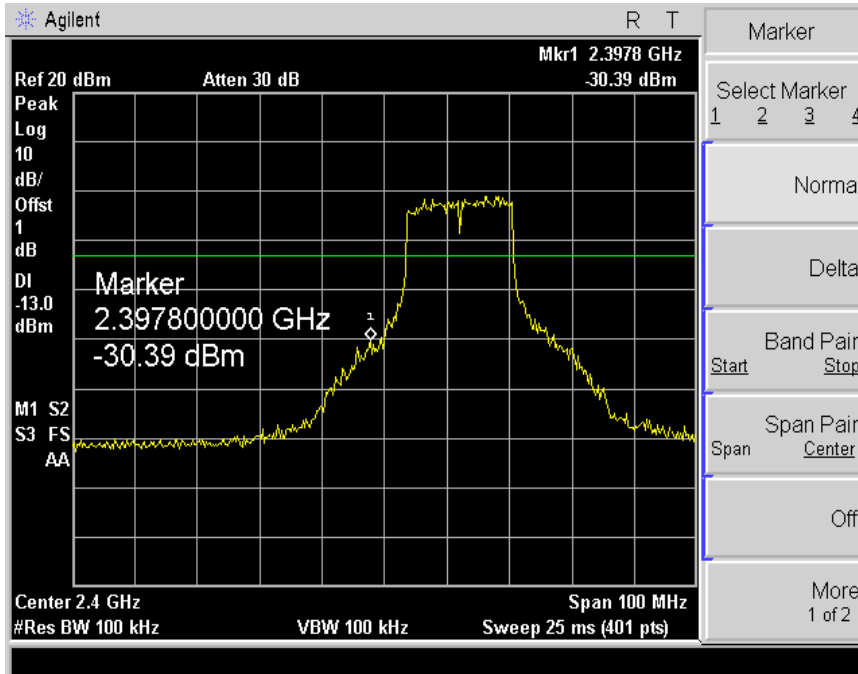
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea

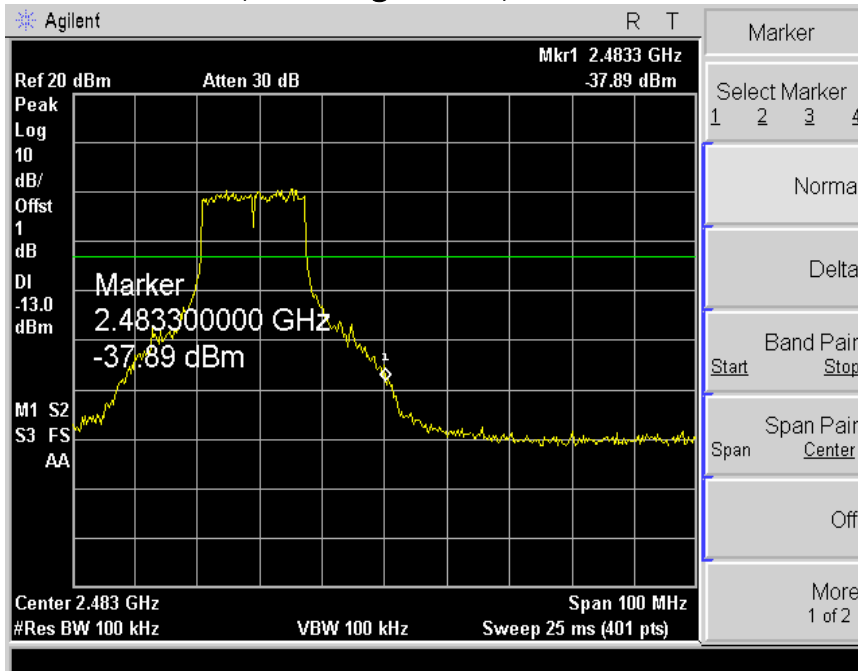


**Electromagnetic
Interference
Test Report**

OFDM (802.11g-1ch)



OFDM (802.11g-11ch)





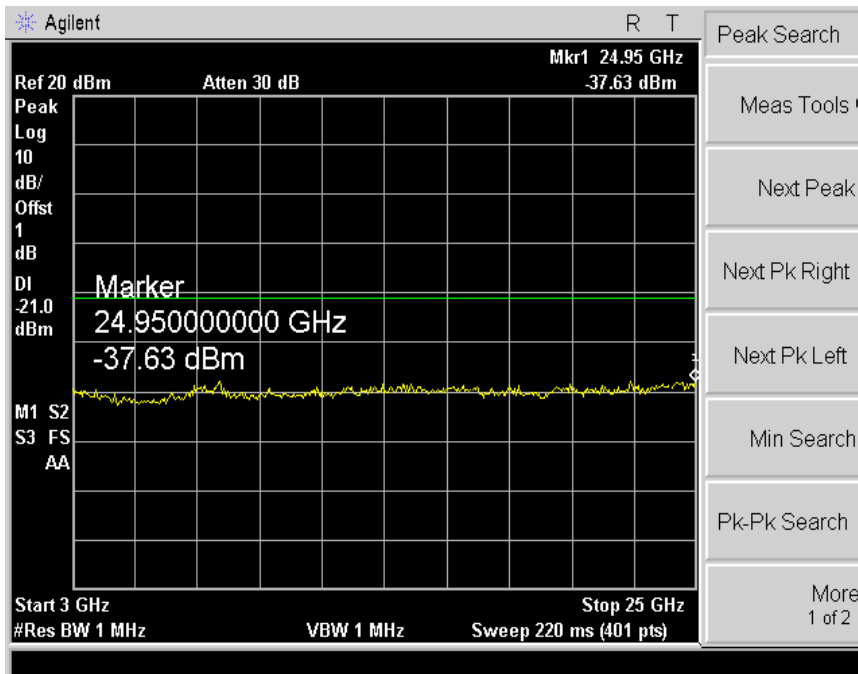
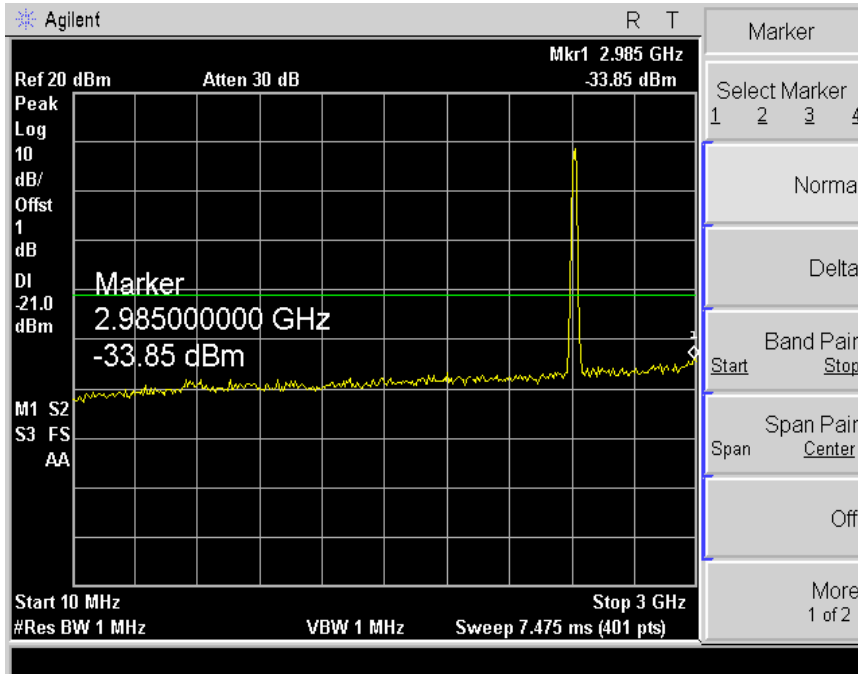
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

OFDM (802.11g-01ch)





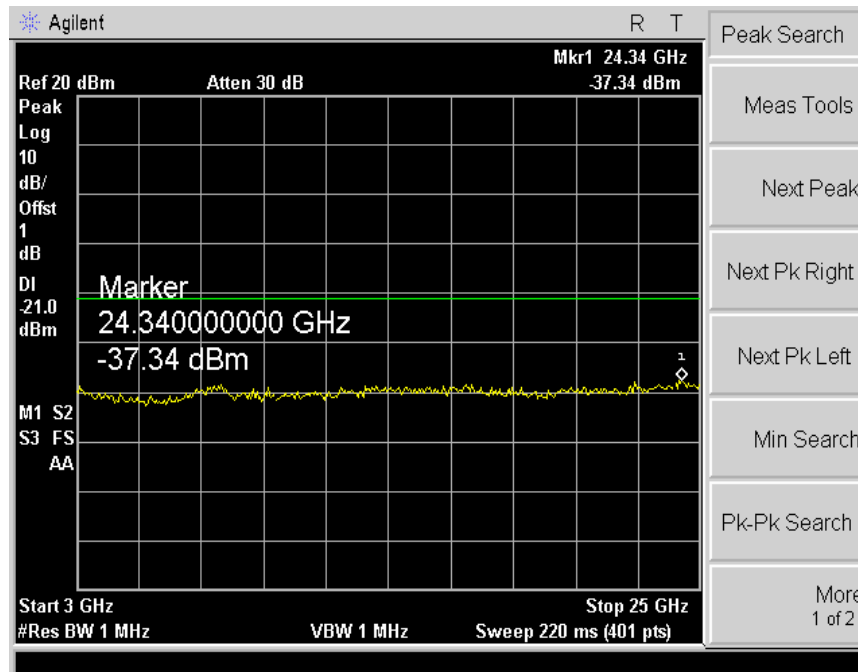
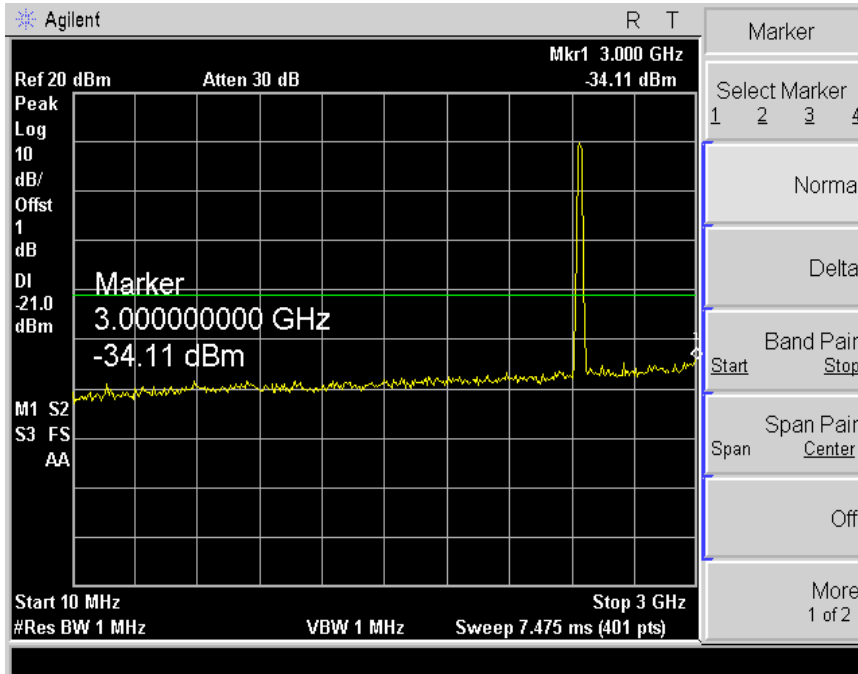
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

OFDM (802.11g-06ch)





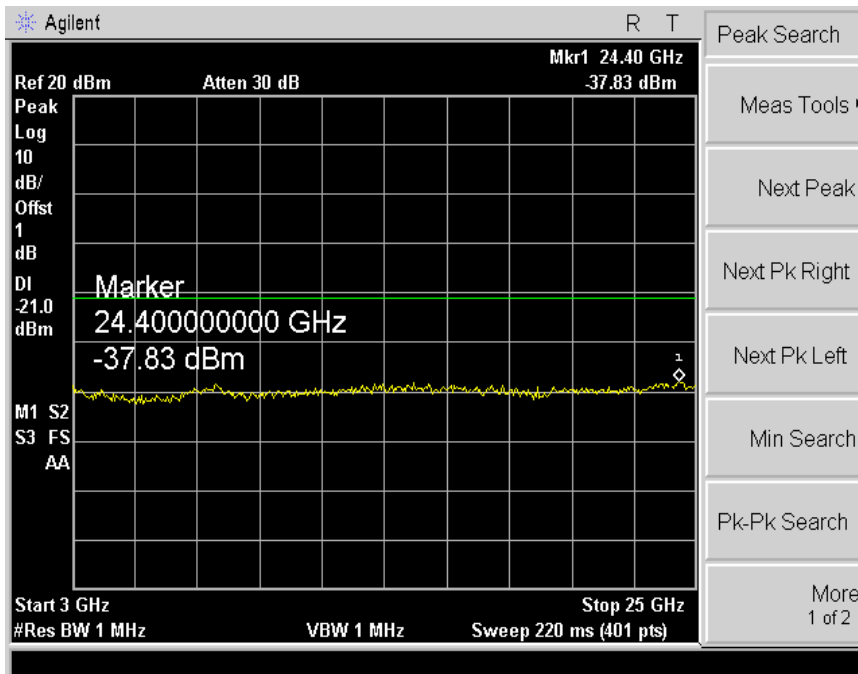
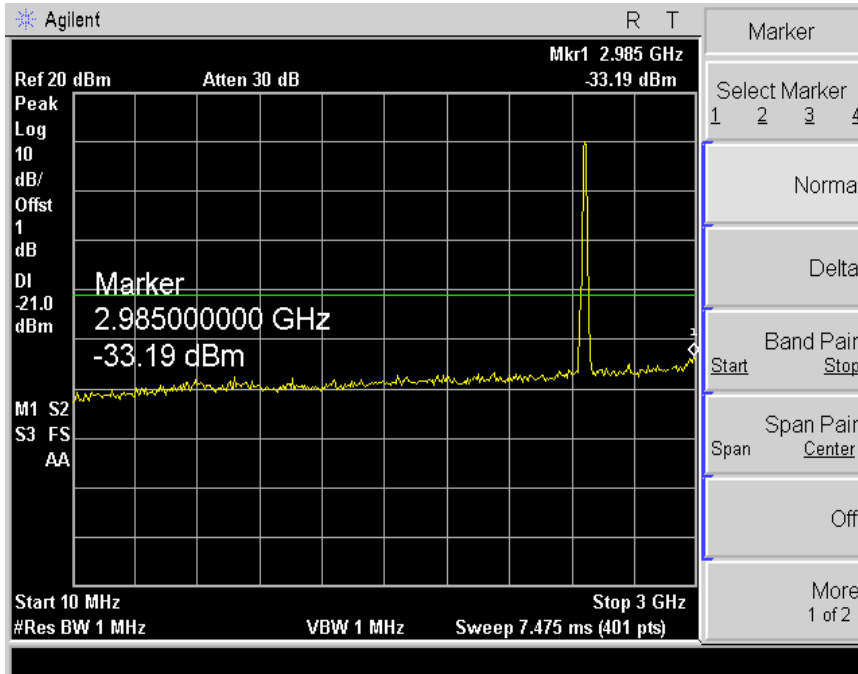
ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



**Electromagnetic
Interference
Test Report**

OFDM (802.11g-11ch)



9. Measurement of radiated disturbance

Above 30 MHz Electric Field strength was measured in accordance with FCC Part 15 (2007) & ANSI C 63.4 (2003). The test setup was made according to FCC Part 15 (2007) & ANSI C 63.4 (2003) on an open test site, which allows a 3m distance measurement. The EUT was placed in the center of wooden turntable. The height of this table was 0.8m. The measurement was conducted with both horizontal and vertical antenna polarization. The turntable has fully rotated. For further description of the configuration refer to the picture of the test setup.

9.1 Measurement equipments

Equipment Name	Type	Manufacturer	Serial No.	Next Calibration date
TEST Receiver	ESVS10	Rohde & Schwarz	838562/002	23-Jan-08
Spectrum Analyzer	R3261C	ADVANTEST	61720116	20-Apr-08
LogBicon Antenna	VULB 9160	S/B	3142	7-May-08
Amplifier	8447F	HP	2805A02972	26-Jun-08
PREAMPLIFIER	8449B	HP	3008A00581	6-May-08
Horn Antenna	BBHA 9120 D	Schwarzbeck	352	5-Jun-08
Spectrum Analyzer	R3273	ADVANTEST	121200664	27-Nov-08
Turn Table	2087	EMCO	2129	-
Antenna Mast	2070-01	EMCO	9702-203	-
ANT Mast Controller	2090	EMCO	1535	-
Turn Table Controller	2090	EMCO	1535	-

9.2 Environmental Condition

Test Place : Open site(3m)
 Temperature (°C) : 6 °C
 Humidity (%) : 49 %

9.3-1 Test Data for wireless LAN

Test Date : 16-Nov-07

Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW:1Mhz VBW:1MHz)								
2390	20.60	H	1.1	27.64	2.3	74.0	50.51	-23.49
2412	69.10	H	1.1	27.62	2.3	*OB	98.99	-
4824	44.92	H	1.1	31.30	-28.8	74.0	47.38	-26.62
7236	44.12	H	1.4	36.54	-26.7	74.0	54.01	-19.99
9648	44.39	H	1.3	37.98	-23.1	74.0	59.28	-14.72
2390	20.56	V	1.1	27.64	2.3	74.0	50.47	-23.53
2412	68.00	V	1.2	27.62	2.3	*OB	97.89	-
4824	48.21	V	1.1	31.30	-28.8	74.0	50.67	-23.33
7236	44.07	V	1.3	36.54	-26.7	74.0	53.96	-20.04
9648	44.39	V	1.2	37.98	-23.1	74.0	59.28	-14.72
AV(RBW:1Mhz VBW:10Hz)								
2390	8.90	H	1.1	27.64	2.3	54.0	38.81	-15.19
2412	58.00	H	1.1	27.62	2.3	*OB	87.89	-
4824	33.12	H	1.1	31.30	-28.8	54.0	35.58	-18.42
7236	30.82	H	1.4	36.54	-26.7	54.0	40.71	-13.29
9648	31.67	H	1.3	37.98	-23.1	54.0	46.56	-7.44
2390	9.24	V	1.1	27.64	2.3	54.0	39.15	-14.85
2412	57.60	V	1.2	27.62	2.3	*OB	87.49	-
4824	34.62	V	1.1	31.30	-28.8	54.0	37.08	-16.92
7236	30.80	V	1.3	36.54	-26.7	54.0	40.69	-13.31
9648	31.66	V	1.2	37.98	-23.1	54.0	46.55	-7.45
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11b - CH1(2412MHz) *The TX signal isn't detected from 5th harmonics. *OB = Operating band *Checked in all 3 axis and the maximum measured data were reported. *CL = Cable Loss-Amplifier Gain(In case of above1000Mhz) *CL = Cable Loss(In case of below1000Mhz)							

9.3-2 Test Data for wireless LAN

Test Date : 16-Nov-07

Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW:1Mhz VBW:1MHz)								
2437	66.18	H	1.1	27.61	2.3	*OB	96.09	-
4874	45.61	H	1.6	31.37	-28.7	74.0	48.29	-25.71
7311	44.72	H	1.2	36.56	-26.5	74.0	54.77	-19.23
9648	44.49	H	1.4	37.98	-23.1	74.0	59.38	-14.62
2437	65.45	V	1.2	27.61	2.3	*OB	95.36	-
4874	44.62	V	1.2	31.37	-28.7	74.0	47.30	-26.70
7311	43.96	V	1.4	36.56	-26.5	74.0	54.01	-19.99
9648	44.29	V	1.2	37.98	-23.1	74.0	59.18	-14.82
AV(RBW:1Mhz VBW:10Hz)								
2437	58.02	H	1.1	27.61	2.3	*OB	87.93	-
4874	32.66	H	1.6	31.37	-28.7	54.0	35.34	-18.66
7311	31.20	H	1.2	36.56	-26.5	54.0	41.25	-12.75
9648	31.67	H	1.4	37.98	-23.1	54.0	46.56	-7.44
2437	56.92	V	1.2	27.61	2.3	*OB	86.83	-
4874	32.69	V	1.2	31.37	-28.7	54.0	35.37	-18.63
7311	31.17	V	1.4	36.56	-26.5	54.0	41.22	-12.78
9648	31.63	V	1.2	37.98	-23.1	54.0	46.52	-7.48
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11b - CH6(2437MHz) *The TX signal isn't detected from 5th harmonics. *OB = Operating band *Checked in all 3 axis and the maximum measured data were reported. *CL = Cable Loss-Amplifier Gain(In case of above1000Mhz) *CL = Cable Loss(In case of below1000Mhz)							

**ESTECH Co., Ltd.**Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea**Electromagnetic
Interference
Test Report**

9.3-3 Test Data for wireless LAN

Test Date : 16-Nov-07

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW:1Mhz VBW:1MHz)								
2462	65.00	H	1.1	27.60	2.3	*OB	94.87	-
2483.5	18.83	H	1.1	27.59	2.3	74.0	48.69	-25.31
4924	44.91	H	1.5	31.44	-28.6	74.0	47.77	-26.23
7386	44.71	H	1.2	36.59	-26.4	74.0	54.93	-19.07
9648	44.31	H	1.4	37.98	-23.1	74.0	59.20	-14.80
2462	67.30	V	1.1	27.60	2.3	*OB	97.17	-
2483.5	20.05	V	1.1	27.59	2.3	74.0	49.91	-24.09
4924	44.69	V	1.2	31.44	-28.6	74.0	47.55	-26.45
7386	44.21	V	1.2	36.59	-26.4	74.0	54.43	-19.57
9648	44.32	V	1.4	37.98	-23.1	74.0	59.21	-14.79
AV(RBW:1Mhz VBW:10Hz)								
2462	55.50	H	1.1	27.60	2.3	*OB	85.37	-
2483.5	7.65	H	1.1	27.59	2.3	54.0	37.51	-16.49
4924	34.11	H	1.5	31.44	-28.6	54.0	36.97	-17.03
7386	31.30	H	1.2	36.59	-26.4	54.0	41.52	-12.48
9648	31.66	H	1.4	37.98	-23.1	54.0	46.55	-7.45
2462	59.20	V	1.1	27.60	2.3	*OB	89.07	-
2483.5	8.25	V	1.1	27.59	2.3	54.0	38.11	-15.89
4924	33.84	V	1.2	31.44	-28.6	54.0	36.70	-17.30
7386	31.24	V	1.2	36.59	-26.4	54.0	41.46	-12.54
9648	31.17	V	1.4	37.98	-23.1	54.0	46.06	-7.94
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11b - CH11(2462MHz) *The TX signal isn't detected from 5th harmonics. *OB = Operating band *Checked in all 3 axis and the maximum measured data were reported. *CL = Cable Loss-Amplifier Gain(In case of above1000Mhz) *CL = Cable Loss(In case of below1000Mhz)							

9.4 Test Data for wireless LAN

Test Date : 16-Nov-07

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
79.10	11.20	V	1.0	8.97	1.4	40.0	21.55	-18.45
120.40	11.50	H	2.2	12.05	1.7	43.5	25.25	-18.25
140.00	11.10	H	1.5	13.36	1.8	43.5	26.30	-17.20
172.62	14.80	H	1.3	13.10	2.0	43.5	29.92	-13.58
195.42	7.50	V	1.0	10.71	2.2	43.5	20.41	-23.09
220.00	9.20	V	1.0	10.76	2.4	43.5	22.36	-21.14
245.20	14.40	V	1.0	11.82	2.6	46.0	28.80	-17.20
294.92	13.10	H	1.1	13.09	2.9	46.0	29.12	-16.88
344.04	14.40	H	1.0	14.15	3.3	46.0	31.81	-14.19
398.21	15.20	H	1.0	15.28	3.6	46.0	34.05	-11.95
497.21	11.20	V	1.0	17.04	4.2	46.0	32.46	-13.54
696.40	6.40	H	1.0	20.10	5.3	46.0	31.75	-14.25
796.20	4.50	H	1.0	21.73	5.9	46.0	32.13	-13.87
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11g *Checked in all 3 axis and the maximum measured data were reported. *CL = Cable Loss-Amplifier Gain(In case of above1000Mhz) *CL = Cable Loss(In case of below1000Mhz) *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Quasi-peak detection at frequency below 1GHz.							

9.4-1 Test Data for wireless LAN

Test Date : 16-Nov-07

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW:1Mhz VBW:1Mhz)								
2390	27.44	H	1.1	27.64	2.3	74.0	57.35	-16.65
2412	68.00	H	1.1	27.62	2.3	*OB	97.89	-
4824	44.48	H	1.2	31.30	-28.8	74.0	46.94	-27.06
7236	43.67	H	1.3	36.54	-26.7	74.0	53.56	-20.44
9648	44.10	H	1.2	37.98	-23.1	74.0	58.99	-15.01
2390	27.39	V	1.3	27.64	2.3	74.0	57.30	-16.70
2412	66.40	V	1.2	27.62	2.3	*OB	96.29	-
4824	45.56	V	1.2	31.30	-28.8	74.0	48.02	-25.98
7236	43.11	V	1.1	36.54	-26.7	74.0	53.00	-21.00
9648	43.81	V	1.2	37.98	-23.1	74.0	58.70	-15.30
AV(RBW:1Mhz VBW:10Hz)								
2390	11.65	H	1.1	27.64	2.3	54.0	41.56	-12.44
2412	57.00	H	1.1	27.62	2.3	*OB	86.89	-
4824	32.56	H	1.2	31.30	-28.8	54.0	35.02	-18.98
7236	31.17	H	1.3	36.54	-26.7	54.0	41.06	-12.94
9648	31.58	H	1.2	37.98	-23.1	54.0	46.47	-7.53
2390	11.90	V	1.3	27.64	2.3	54.0	41.81	-12.19
2412	54.90	V	1.2	27.62	2.3	*OB	84.79	-
4824	33.67	V	1.2	31.30	-28.8	54.0	36.13	-17.87
7236	30.72	V	1.1	36.54	-26.7	54.0	40.61	-13.39
9648	31.66	V	1.2	37.98	-23.1	54.0	46.55	-7.45
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11g - CH1(2412MHz) *The TX signal isn't detected from 5th harmonics. *OB = Operating band *Checked in all 3 axis and the maximum measured data were reported. *CL = Cable Loss-Amplifier Gain(In case of above1000Mhz) *CL = Cable Loss(In case of below1000Mhz)							

**ESTECH Co., Ltd.**Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea**Electromagnetic
Interference
Test Report**

9.4-2 Test Data for wireless LAN

Test Date : 16-Nov-07

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW:1Mhz VBW:1MHz)								
2437	64.26	H	1.1	27.61	2.3	*OB	94.14	-
4874	44.48	H	1.4	31.37	-28.7	74.0	47.16	-26.84
7311	43.81	H	1.3	36.56	-26.5	74.0	53.86	-20.14
9648	44.10	H	1.3	37.98	-23.1	74.0	58.99	-15.01
2437	63.69	V	1.1	27.61	2.3	*OB	93.57	-
4874	44.96	V	1.3	31.37	-28.7	74.0	47.64	-26.36
7311	43.62	V	1.2	36.56	-26.5	74.0	53.67	-20.33
9648	44.11	V	1.1	37.98	-23.1	74.0	59.00	-15.00
AV(RBW:1Mhz VBW:10Hz)								
2437	55.01	H	1.1	27.61	2.3	*OB	84.89	-
4874	32.16	H	1.4	31.37	-28.7	54.0	34.84	-19.16
7311	31.66	H	1.3	36.56	-26.5	54.0	41.71	-12.29
9648	31.62	H	1.3	37.98	-23.1	54.0	46.51	-7.49
2437	54.85	V	1.1	27.61	2.3	*OB	84.73	-
4874	33.11	V	1.3	31.37	-28.7	54.0	35.79	-18.21
7311	31.62	V	1.2	36.56	-26.5	54.0	41.67	-12.33
9648	31.61	V	1.1	37.98	-23.1	54.0	46.50	-7.50
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11g - CH6(2437MHz) *The TX signal isn't detected from 5th harmonics. *OB = Operating band *Checked in all 3 axis and the maximum measured data were reported. *CL = Cable Loss-Amplifier Gain(In case of above1000Mhz) *CL = Cable Loss(In case of below1000Mhz)							

9.4-3 Test Data for wireless LAN

Test Date : 16-Nov-07

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW:1Mhz VBW:1MHz)								
2462	63.00	H	1.1	27.60	2.3	*OB	92.87	-
2483.5	26.66	H	1.2	27.59	2.3	74.0	56.52	-17.48
4924	44.41	H	1.4	31.44	-28.6	74.0	47.27	-26.73
7386	44.65	H	1.2	36.59	-26.4	74.0	54.87	-19.13
9648	44.52	H	1.3	37.98	-23.1	74.0	59.41	-14.59
2462	65.10	V	1.2	27.60	2.3	*OB	94.97	-
2483.5	31.78	V	1.2	27.59	2.3	74.0	61.64	-12.36
4924	44.59	V	1.3	31.44	-28.6	74.0	47.45	-26.55
7386	43.69	V	1.1	36.59	-26.4	74.0	53.91	-20.09
9648	44.11	V	1.3	37.98	-23.1	74.0	59.00	-15.00
AV(RBW:1Mhz VBW:10Hz)								
2462	54.05	H	1.1	27.60	2.3	*OB	83.92	-
2483.5	10.83	H	1.2	27.59	2.3	54.0	40.69	-13.31
4924	32.69	H	1.4	31.44	-28.6	54.0	35.55	-18.45
7386	31.59	H	1.2	36.59	-26.4	54.0	41.81	-12.19
9648	32.69	H	1.3	37.98	-23.1	54.0	47.58	-6.42
2462	54.10	V	1.2	27.60	2.3	*OB	83.97	-
2483.5	10.46	V	1.2	27.59	2.3	54.0	40.32	-13.68
4924	32.58	V	1.3	31.44	-28.6	54.0	35.44	-18.56
7386	31.61	V	1.1	36.59	-26.4	54.0	41.83	-12.17
9648	31.44	V	1.3	37.98	-23.1	54.0	46.33	-7.67
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11g - CH11(2462MHz) *The TX signal isn't detected from 5th harmonics. *OB = Operating band *Checked in all 3 axis and the maximum measured data were reported. *CL = Cable Loss-Amplifier Gain(In case of above1000Mhz) *CL = Cable Loss(In case of below1000Mhz)							



ESTECH Co., Ltd.

Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



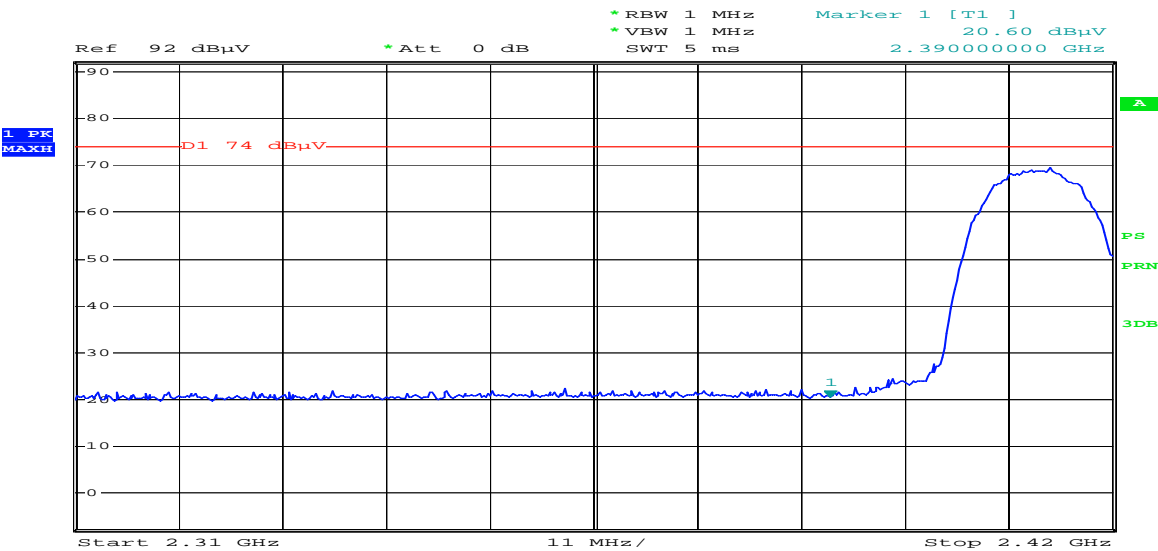
**Electromagnetic
Interference
Test Report**

9.5-1 Restricted Band Edges for 802.11b

Band Edges(CH Low)

Detector mode:Peak

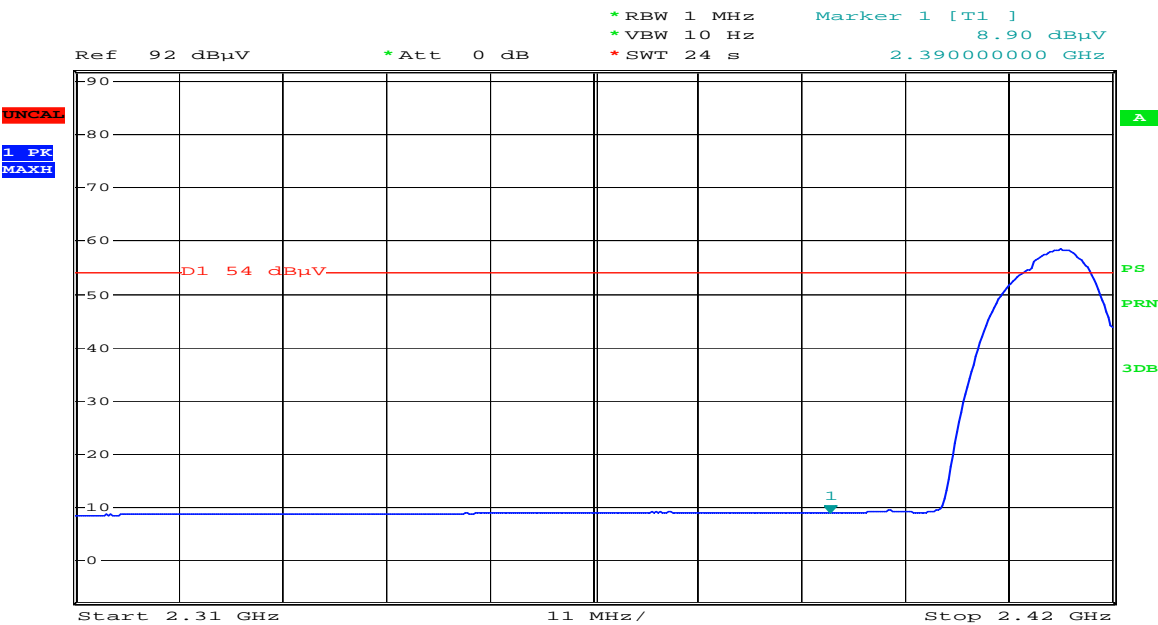
Polarity:Horizontal



Comment: CHD FIVE 801.11/B CH1 PK HOR

Detector mode:Average

Polarity:Horizontal

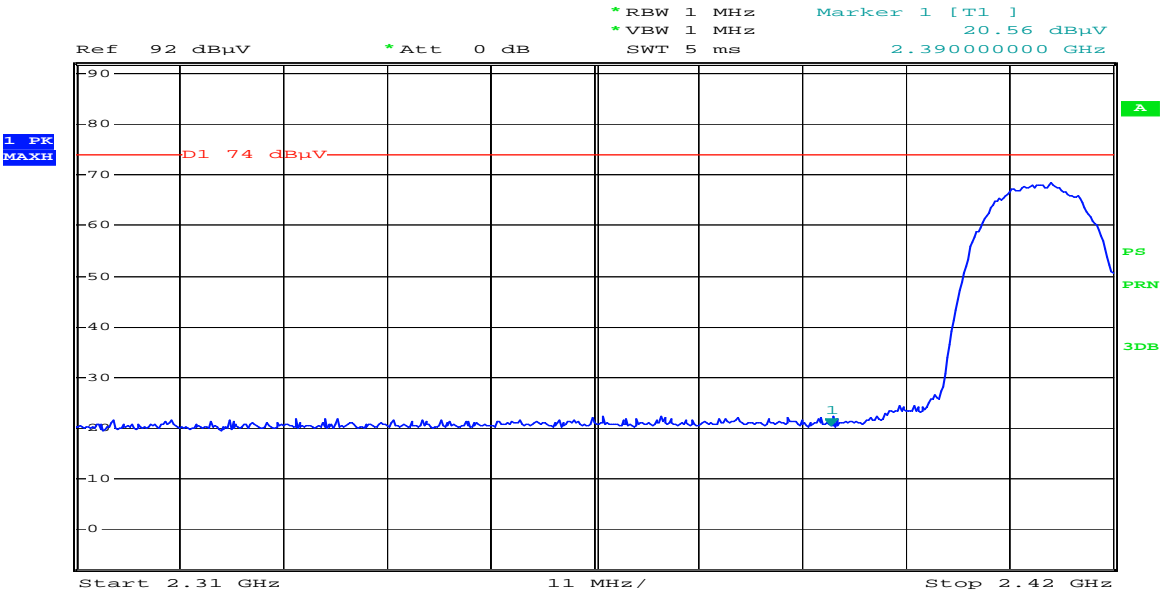


Comment: CHD FIVE 801.11/B CH1 AV HOR

Band Edges(CH Low)

Detector mode:Peak

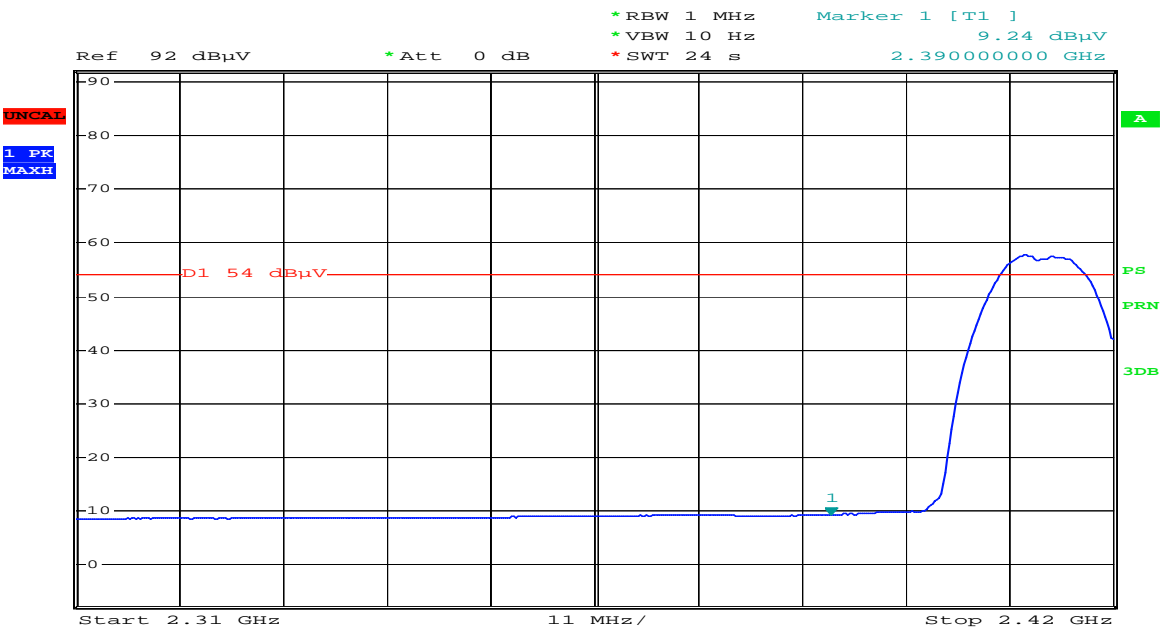
Polarity:Vertical



Comment: CHD FiVE_801.11/B CH1 PK VER

Detector mode:Average

Polarity:Vertical



Comment: CHD FiVE_801.11/B CH1 AV VER



ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



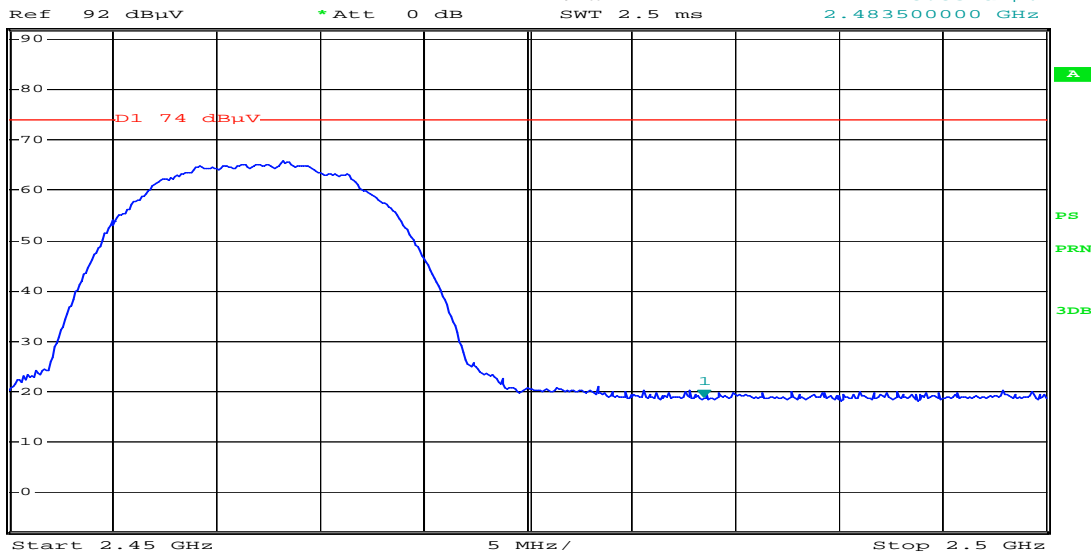
**Electromagnetic
Interference
Test Report**

Band Edges(CH High)

Detector mode:Peak

Polarity:Horizontal

*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz 18.83 dBuV
SWT 2.5 ms 2.483500000 GHz

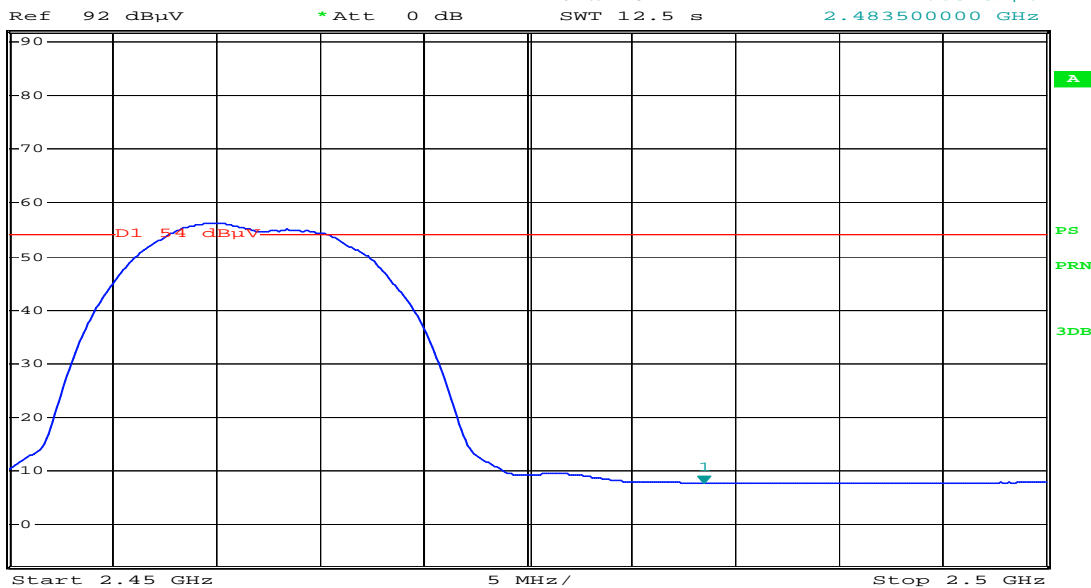


Comment: CHD FiVE 801.11/B CH11 PK HOR

Detector mode:Average

Polarity:Horizontal

*RBW 1 MHz Marker 1 [T1]
*VBW 10 Hz 7.65 dBuV
SWT 12.5 s 2.483500000 GHz



Comment: CHD FiVE 801.11/B CH11 AV HOR



ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea

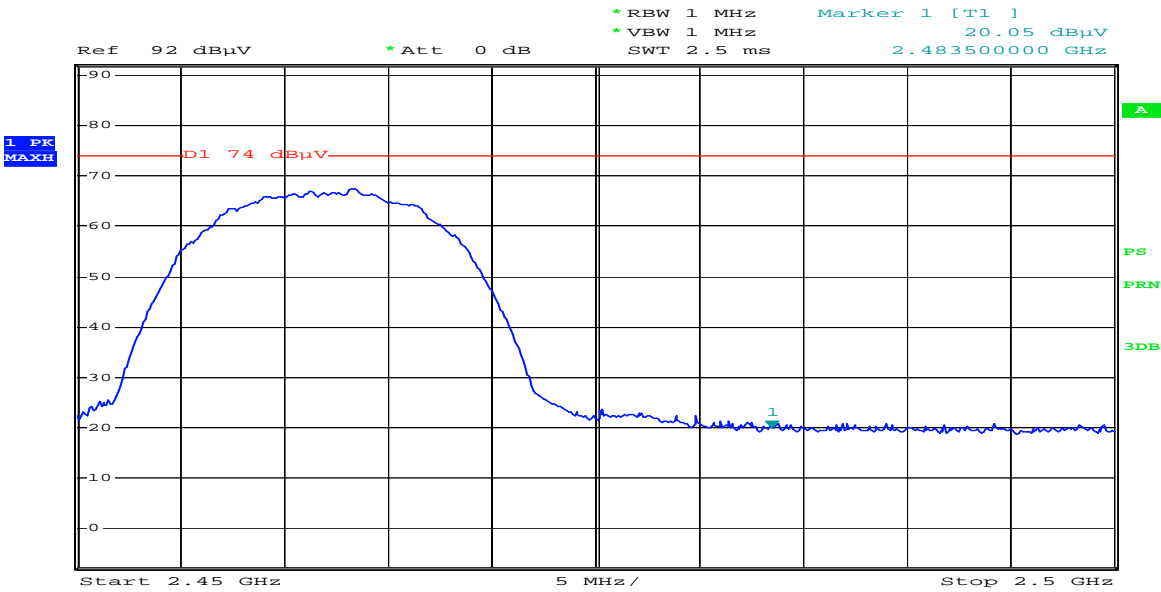


**Electromagnetic
Interference
Test Report**

Band Edges(CH High)

Detector mode:Peak

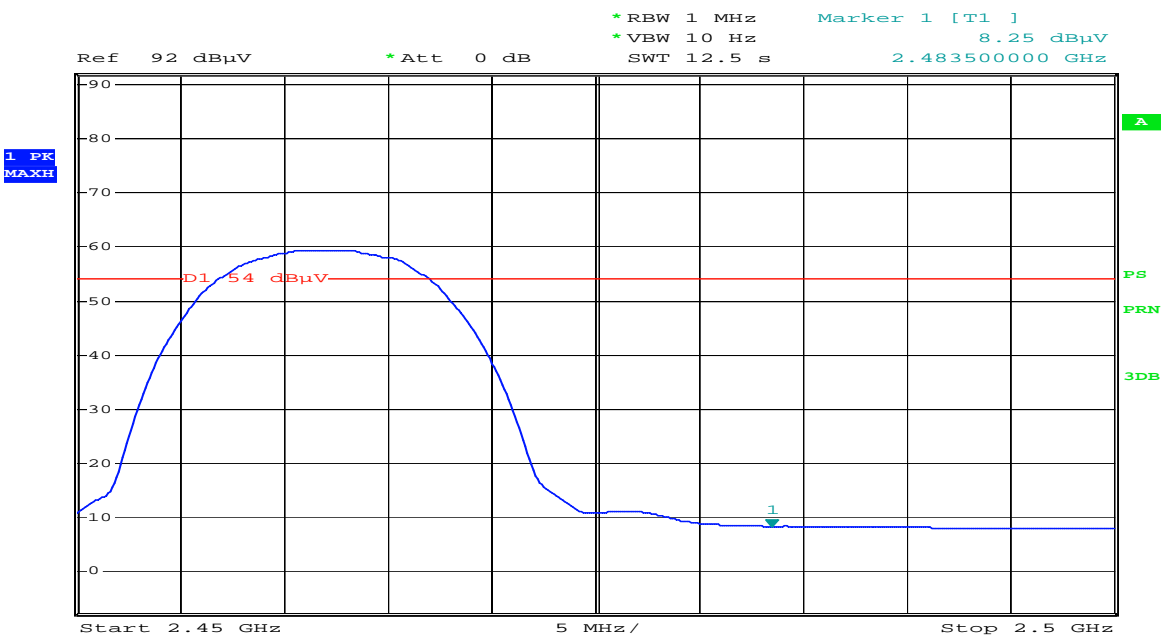
Polarity:Vertical



Comment: CHD FIVE 801.11/B CH11 PK VER

Detector mode:Average

Polarity:Vertical



Comment: CHD FIVE 801.11/B CH11 AV VER



ESTECH Co., Ltd.

Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



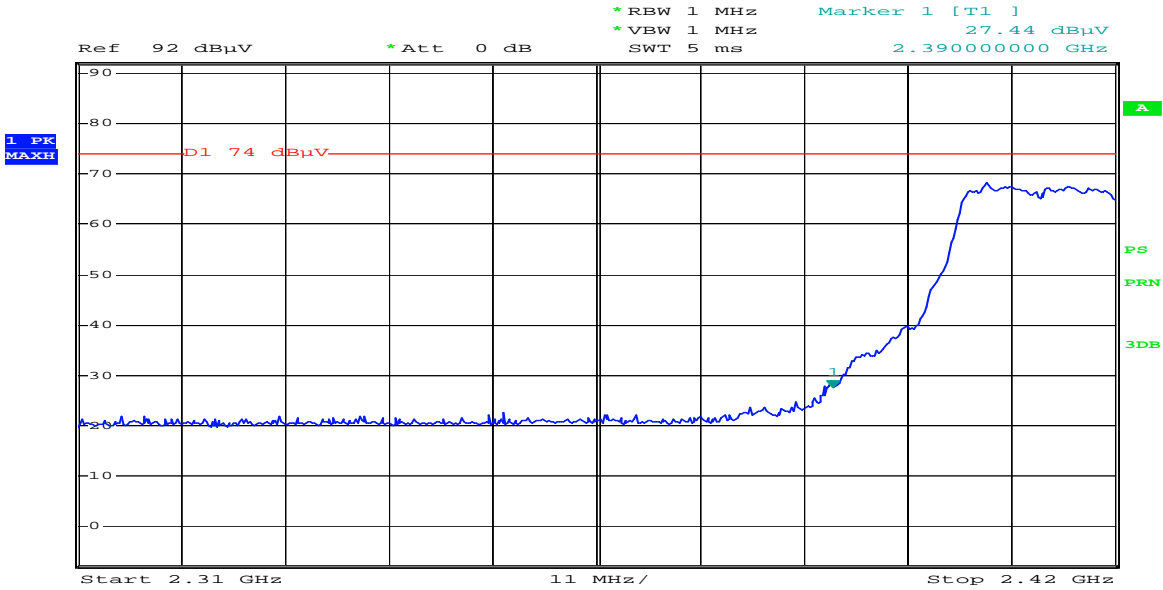
**Electromagnetic
Interference
Test Report**

14.6-2 Restricted Band Edges for 802.11g

Band Edges(CH Low)

Detector mode:Peak

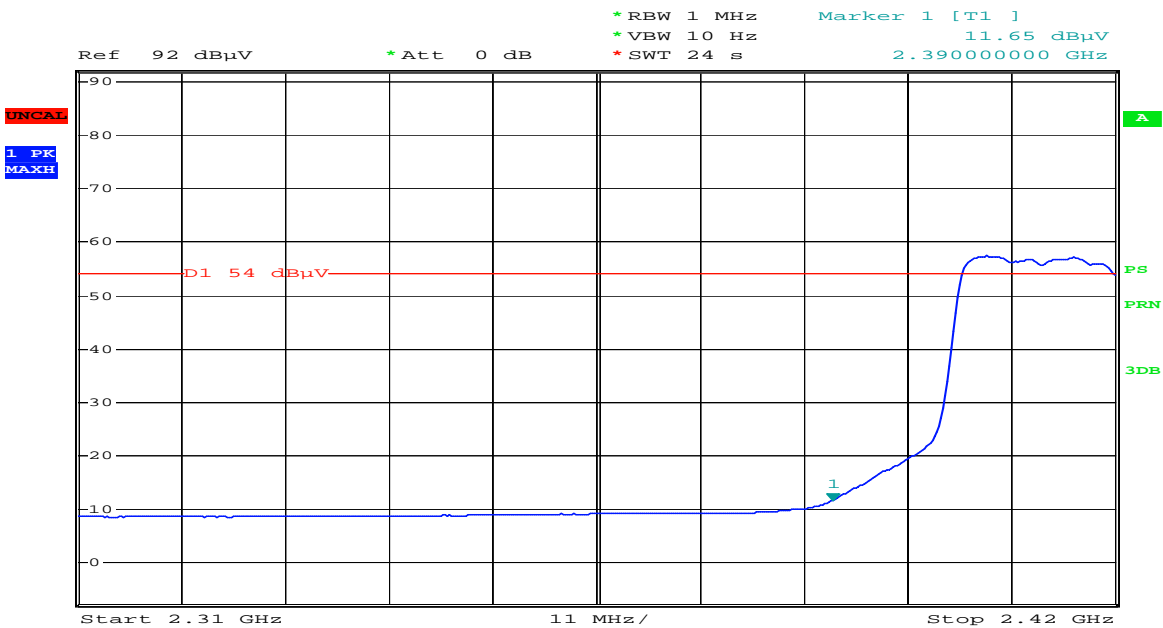
Polarity:Horizontal



Comment: CHD FiVE 801.11/G CH1 PK HOR

Detector mode:Average

Polarity:Horizontal



Comment: CHD FiVE 801.11/G CH1 AV HOR



ESTECH Co., Ltd.

Rm. 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea

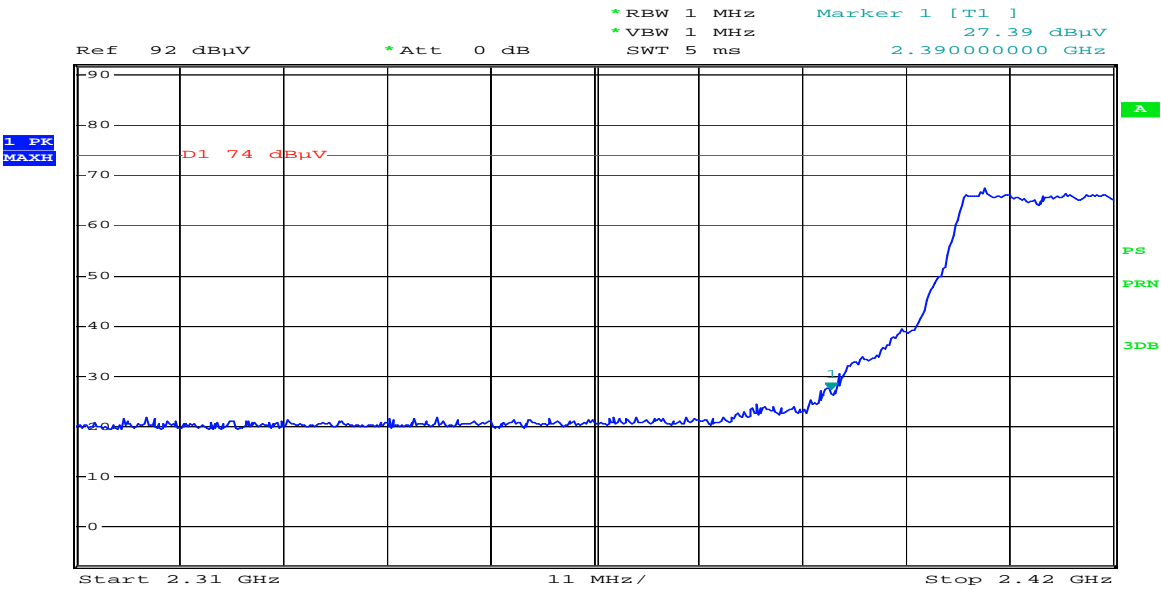


**Electromagnetic
Interference
Test Report**

Band Edges(CH Low)

Detector mode:Peak

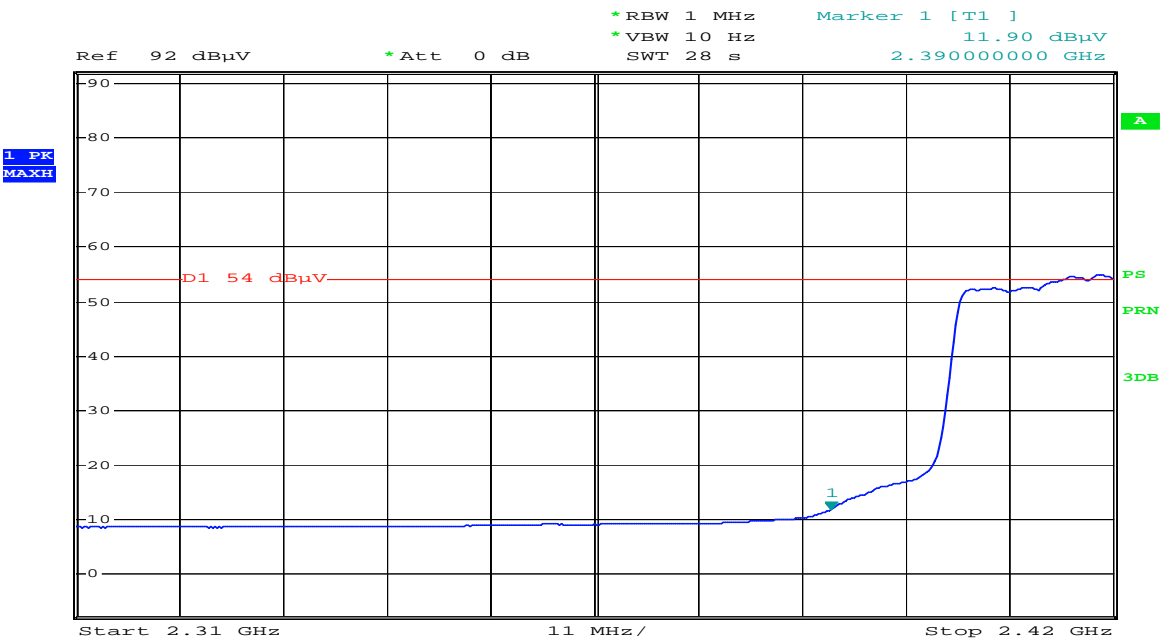
Polarity:Vertical



Comment: CHD FiVE 801.11/G CH1 PK VER

Detector mode:Average

Polarity:Vertical



Comment: CHD FiVE 801.11/G CH1 AV VER



ESTECH Co., Ltd.

Rm 1015, World Venture Center 11,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea



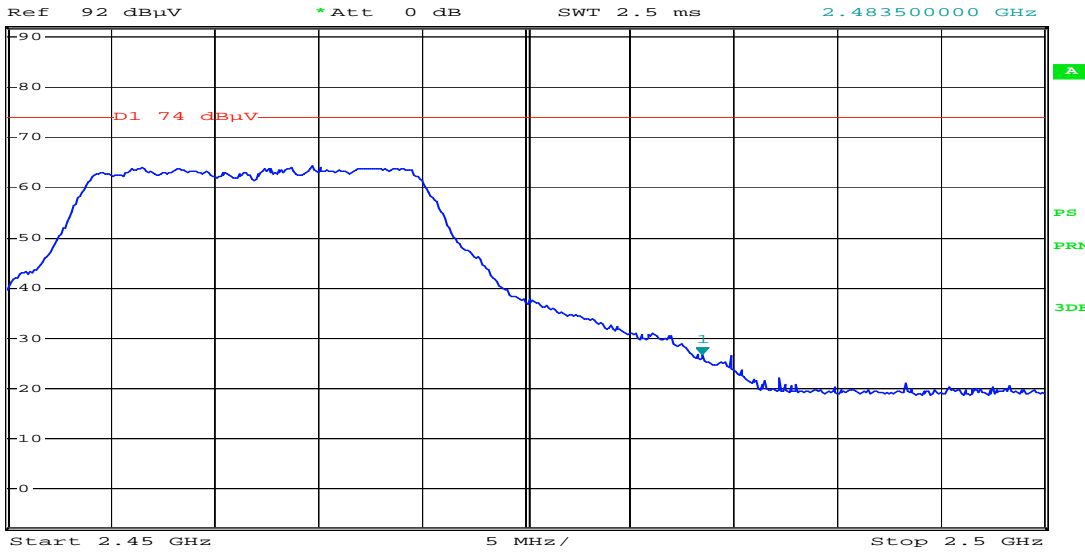
**Electromagnetic
Interference
Test Report**

Band Edges(CH High)

Detector mode:Peak

Polarity:Horizontal

*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz 26.66 dBμV
SWT 2.5 ms 2.483500000 GHz

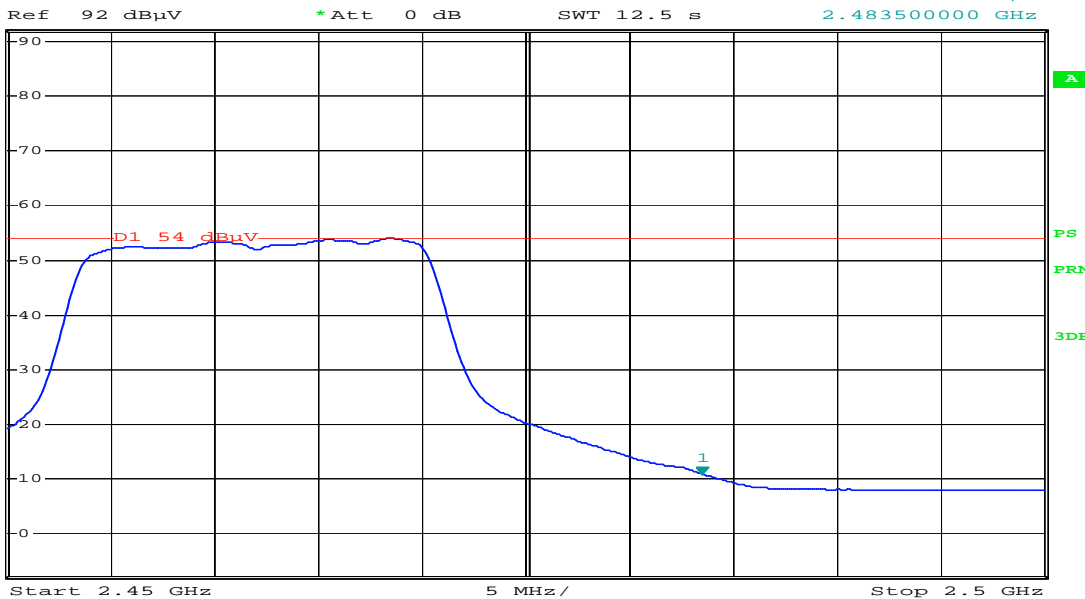


Comment: CHD FiVE 801.11/G CH11 PK HOR

Detector mode:Average

Polarity:Horizontal

*RBW 1 MHz Marker 1 [T1]
*VBW 10 Hz 10.83 dBμV
SWT 12.5 s 2.483500000 GHz



Comment: CHD FiVE 801.11/G CH11 AV HOR



ESTECH Co., Ltd.

Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea

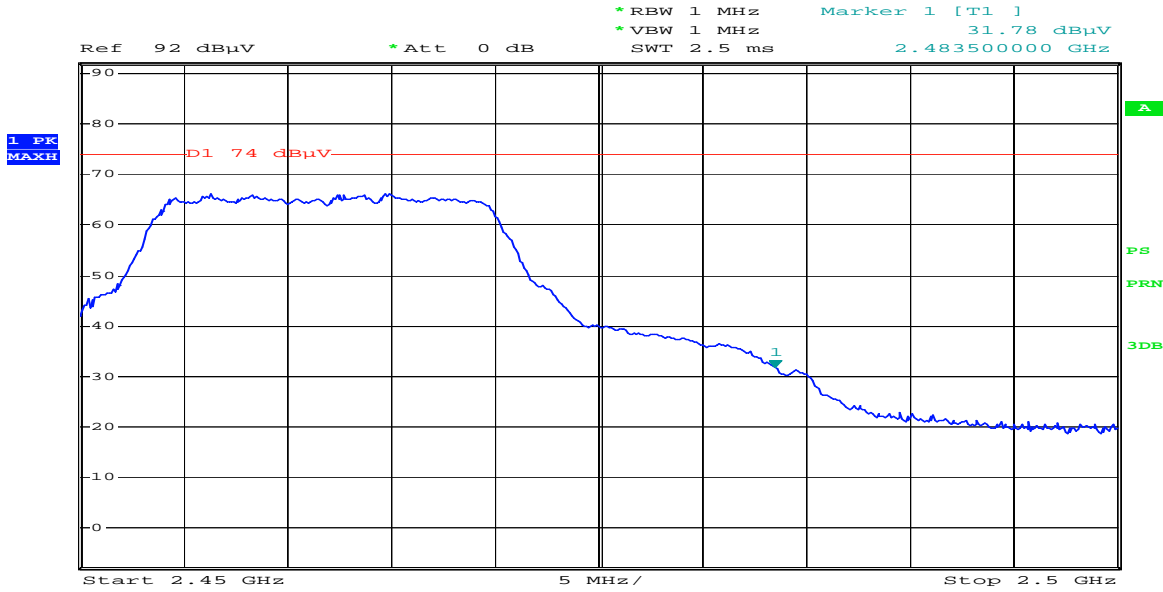


**Electromagnetic
Interference
Test Report**

Band Edges(CH High)

Detector mode:Peak

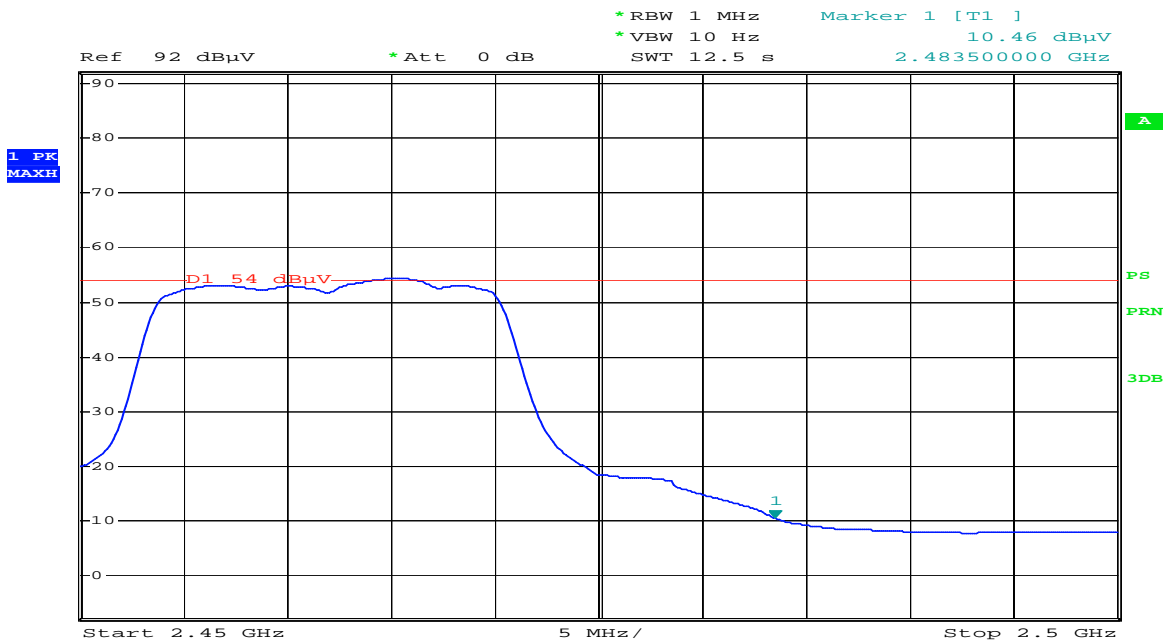
Polarity:Vertical



Comment: CHD FIVE 801.11/G CH11 PK VER

Detector mode:Average

Polarity:Vertical



Comment: CHD FIVE 801.11/G CH11 AV VER

10. Measurement of conducted disturbance

The continuous disturbance voltage of AC Mains in the frequency from 0.15 to 30 MHz was measured in accordance to FCC Part 15 (2006) & ANSI C 63.4 (2003) The test setup was made according to FCC Part 15 (2006) & ANSI C 63.4 (2003) in a shielded. The EUT was placed on a non-conductive table at least 80 above the ground plan. A grounded vertical reference plane was positioned in a distance of 40cm from the EUT. The distance from the EUT to other metal surfaces was at least 0.8m. The EUT was only earthen by its power cord through the line impedance stabilizing network. The power cord has been bundled to a length of 1.0m.. The test receiver with Quasi Peak detector complies with CISPR 16.

10.1 Measurement equipments

Equipment Name	Type	Manufacturer	Serial No.	Next Calibration date
LISN	ESG3-Z5	Schwarzbeck	838979/010	28-Feb-08
TEST Receive	ESPI7	Rohde & Schwarz	100185	27-Aug-08
Pulse Limiter	ESH3Z2	Rohde & Schwarz	NONE	-

10.2 Environmental Condition

Test Place : Shield Room

Temperature (°C) : 22 °C

Humidity (%) : 46 %

**ESTECH Co., Ltd.**Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea**Electromagnetic
Interference
Test Report**

10.3 Test Data for wireless LAN

Frequency (MHz)	Correction Factor		Line (H/N)	Quasi-peak Value			Average Value		
	Lisn (dB)	Cable (dB)		Limit (dB μ V)	Reading (dB μ V)	Result (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Result (dB)
0.17	0.16	0.0	H	64.96	43.29	43.50	54.96	29.86	30.07
0.21	0.15	0.1	N	63.05	39.41	39.62	53.05	24.94	25.15
0.22	0.15	0.1	H	62.82	39.27	39.48	52.82	25.91	26.12
0.25	0.14	0.1	H	61.63	37.76	37.97	51.63	24.71	24.92
0.26	0.13	0.1	N	61.37	38.79	39.00	51.37	26.04	26.25
0.30	0.12	0.1	H	60.27	35.61	35.82	50.27	27.48	27.69
0.51	0.15	0.1	H	56.00	39.01	39.25	46.00	30.80	31.04
0.53	0.15	0.1	N	56.00	30.84	31.08	46.00	26.01	26.25
0.57	0.15	0.1	N	56.00	26.87	27.11	46.00	18.59	18.83
0.60	0.15	0.1	H	56.00	28.15	28.40	46.00	21.88	22.13
0.70	0.16	0.1	H	56.00	28.85	29.10	46.00	22.95	23.20
1.16	0.26	0.2	H	56.00	27.09	27.53	46.00	20.50	20.94
6.16	0.43	0.6	H	60.00	24.47	25.45	50.00	15.72	16.70
7.65	0.50	0.6	N	60.00	24.72	25.83	50.00	17.95	19.06
7.89	0.52	0.6	H	60.00	29.24	30.37	50.00	20.45	21.58
8.13	0.53	0.6	H	60.00	31.20	32.36	50.00	21.82	22.98
8.64	0.56	0.6	N	60.00	24.40	25.61	50.00	19.16	20.37
9.39	0.61	0.7	H	60.00	28.55	29.84	50.00	20.10	21.39
Remark	H : Hot Line, N : Neutral Line TEST MODE : 802.11b - CH 6(2437MHz)								

**ESTECH Co., Ltd.**Rm 1015, World Venture Center II,
426-5 Gasan-dong, Guncheon-gu,
Seoul, 158-803, Korea**Electromagnetic
Interference
Test Report**

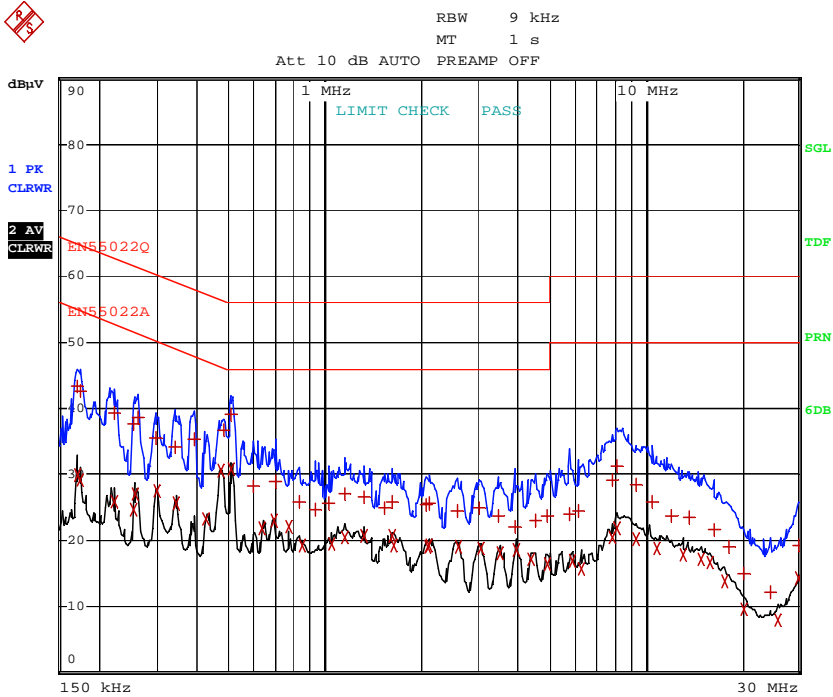
10.4 Test Data for wireless LAN

Frequency (MHz)	Correction Factor		Line (H/N)	Quasi-peak Value			Average Value		
	Lisn (dB)	Cable (dB)		Limit (dB μ V)	Reading (dB μ V)	Result (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Result (dB)
0.17	0.16	0.0	N	64.91	42.47	42.68	54.91	28.89	29.10
0.22	0.15	0.1	N	62.67	38.47	38.68	52.67	23.42	23.63
0.23	0.15	0.1	H	62.63	36.81	37.02	52.63	24.30	24.51
0.26	0.13	0.1	N	61.46	38.35	38.56	51.46	25.94	26.15
0.30	0.12	0.1	N	60.27	34.53	34.74	50.27	24.71	24.92
0.47	0.15	0.1	N	56.51	33.01	33.27	46.51	25.99	26.25
0.51	0.15	0.1	H	56.00	38.49	38.73	46.00	30.61	30.85
0.52	0.15	0.1	N	56.00	31.34	31.58	46.00	26.01	26.25
0.66	0.16	0.1	H	56.00	30.30	30.55	46.00	22.69	22.94
0.78	0.16	0.1	N	56.00	26.78	27.04	46.00	20.34	20.60
0.82	0.17	0.1	H	56.00	26.13	26.44	46.00	20.50	20.81
1.15	0.26	0.2	H	56.00	27.50	27.94	46.00	21.37	21.81
6.48	0.44	0.6	H	60.00	25.99	27.00	50.00	15.30	16.31
7.84	0.51	0.6	H	60.00	29.86	30.99	50.00	20.10	21.23
8.37	0.55	0.6	H	60.00	30.07	31.25	50.00	22.28	23.46
8.70	0.57	0.6	N	60.00	25.26	26.48	50.00	19.18	20.40
9.21	0.60	0.7	H	60.00	28.49	29.76	50.00	20.92	22.19
10.61	0.67	0.8	H	60.00	26.20	27.64	50.00	19.27	20.71
Remark	H : Hot Line, N : Neutral Line TEST MODE : 802.11g - CH 6 (2437MHz)								

Appendix 1. Spectral diagram for Wireless LAN

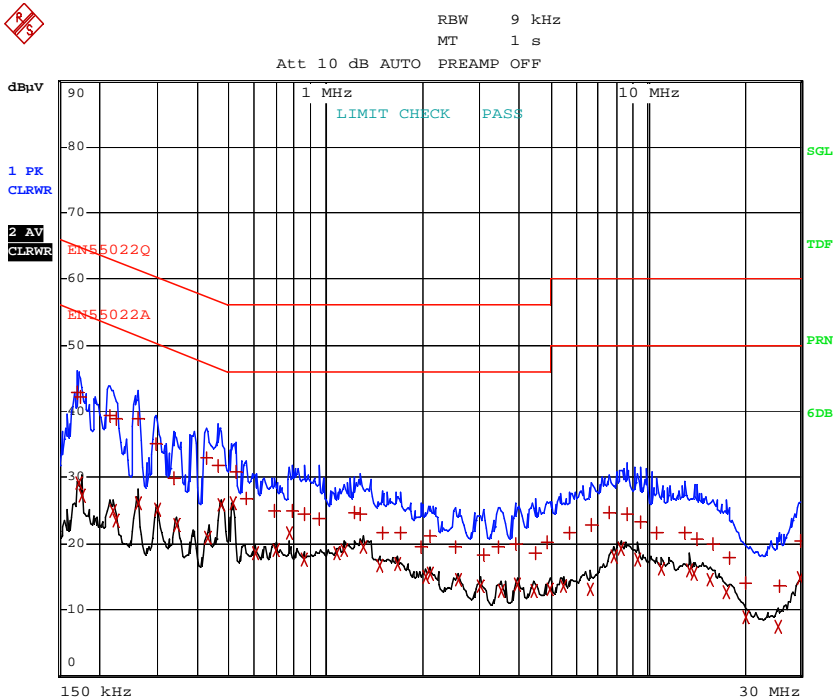
802.11b - CH 6

*HOT



Comment: CHD FIVE 801.11/B HOT
Date: 15.NOV.2007 10:28:42

*NEUTRAL

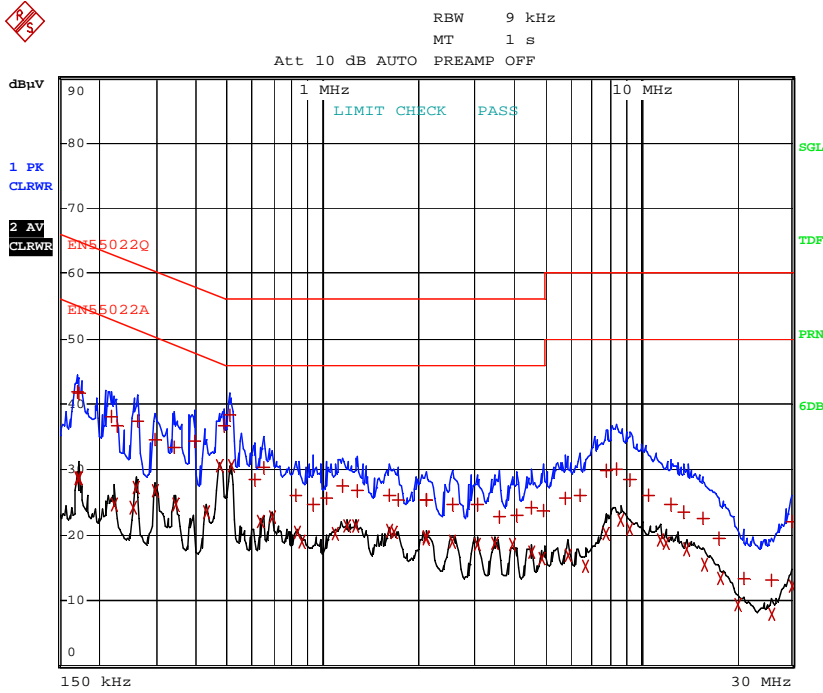


Comment: CHD FIVE 801.11/B NEUTRAL
Date: 15.NOV.2007 10:33:25

Appendix 1. Spectral diagram for Wireless LAN

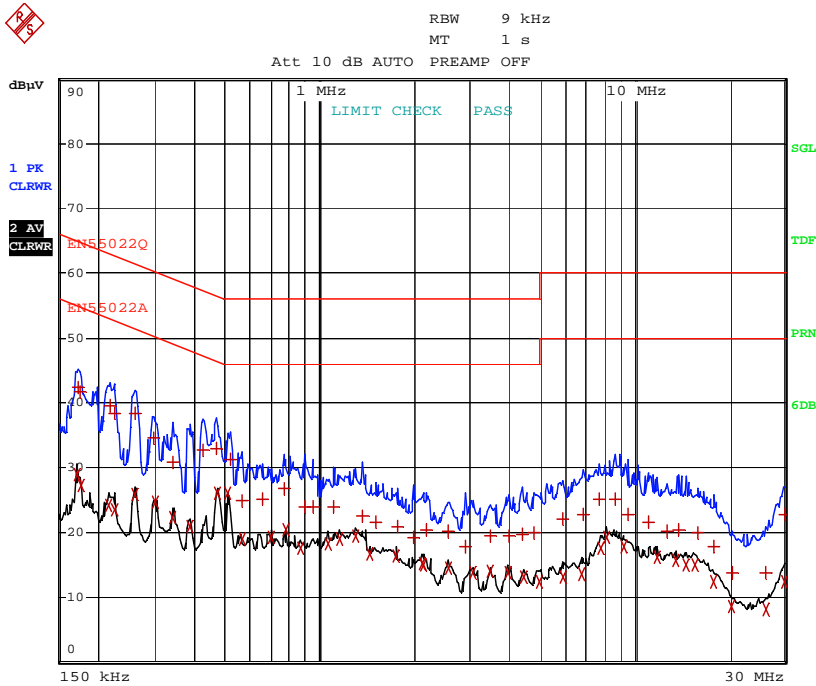
802.11g - CH 6

*HOT



Comment: CHD FiVE 801.11/G HOT
Date: 15.NOV.2007 10:43:34

*NEUTRAL



Comment: CHD FiVE 801.11/G NEUTRAL
Date: 15.NOV.2007 10:38:42

Appendix 2. Antenna Requirement

1. Antenna Requirement

1.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.24

1.2 Antenna Connected Construction

The antenna types used in this product are Intergrated Sandwich antenna . The maximum Gain of this antenna is 1.34dBi.