FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant : StoneSoft Corporation

Address : Italahdenkatu 22 A Helsinki FI-00210 Finland

Equipment : ADSL Router with WLAN

Model No. : StoneGate FW-100

FCC ID : V7B-FW-100

Trade Name : Stonesoft

Laboratory Accreditation



- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of Exclusive Certification Corp. the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

Contents

١.	izeb	ort of measurements and Examinations	
	1.1	List of Measurements and Examinations	
2.	Test	Configuration of Equipment under Test	6
	2.1	Feature of Equipment under Test	6
	2.2	RF Specifications	7
	2.3	Test Mode & Test Software	8
	2.4	Description of Test System	8
	2.5	Connection Diagram of Test System	9
	2.6	General Information of Test	10
	2.7	Measurement Uncertainty	10
	2.8	History of this test report	11
3.	Ante	enna Requirements	12
	3.1	Standard Applicable	12
	3.2	Antenna Construction and Directional Gain	
4.	Test	of Conducted Emission	13
	4.1	Test Limit	13
	4.2	Test Procedures	13
	4.3	Typical Test Setup	14
	4.4	Measurement equipment	14
	4.5	Test Result and Data	15
	4.6	Test Photographs	17
5.	Test	of Radiated Emission	18
	5.1	Test Limit	18
	5.2	Test Procedures	19
	5.3	Typical Test Setup	20
	5.4	Measurement equipment	
	5.5	Test Result and Data	21
	5.6	Test Photographs	37
6.	6dB	Bandwidth Measurement Data	38
	6.1	Test Limit	38
	6.2	Test Procedures	38
	6.3	Test Setup Layout	38
	6.4	Measurement equipment	38
	6.5	Test Result and Data	38
7 .	Max	imum Peak Output Power	42
	7.1	Test Limit	42
	7.2	Test Procedures	42
	7.3	Test Setup Layout	42
	7.4	Measurement equipment	42
	7.5	Test Result and Data	42
8.	Ban	d Edges Measurement	46
	8.1	Test Limit	46
	8.2	Test Procedure:	46
	8.3	Test Setup Layout	46
	8.4	List of Measuring Equipment Used	46
	8.5	Test Result and Data	46

	8.6	Restrict band emission Measurement Data	51
9.	Pow	er Spectral Density	52
	9.1	Test Limit	52
	9.2	Test Procedures	52
	9.3	Test Setup Layout :	52
	9.4	List of Measuring Equipment Used	52
	9.5	Test Result and Data	52
10.	Rest	tricted Bands of Operation	56
	10.1	Labeling Requirement	56
App	endix	A. Photographs of EUT	A1 ~ A9

CERTIFICATE OF COMPLIANCE

according to

FCC Rules and Regulations Part 15 Subpart C

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Equipment : ADSL Router with WLAN

Model No. : StoneGate FW-100

FCC ID : V7B-FW-100

I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was *passed* the test performed according to **FCC** Rules and Regulations Part 15 Subpart C (2005).

The test was carried out on Mar. 20, 2008 at Exclusive Certification Corp.

Signature

Anson Chou / Manager

1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

FCC Rule	. Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209 15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	15.247(b) . Maximum Peak Output Power	
15.247(d) . 100kHz Bandwidth of Frequency Band Edges		Pass
15.247(e) . Power Spectral Density		Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

StoneGate™ FW-100 Wireless Firewall and VPN

Ease of use	Easy network access for end users by WLAN or direct Ethernet		
	connectivity		
Fast roll-out	Flexible and easily commissioned site-to-site connectivity with a		
	predefined ADSL profiles or Ethernet connections		
Ease of administration	Easy administration with centralized administration and logging		
	Remote management of appliances and their functionalities		
Strong security	Comprehensive security by a continuous VPN connectivity to the		
	central site		
	Centralized enforcement of security policy with comprehensive		
	remote control over firewall appliance		
	Dual Mode Security to separate corporate and guest networks		

Firewall

Stateful inspection

Automatic address translation Separate corporate and guest

networks

Automatically defined firewall policies based on segment information

Integrated DHCP server

Wireless LAN

Dual Mode Security (separate corporate and guest settings)

WLAN-standards 802.11g

802.11b

802.11i: 802.1x/EAP-MD5, 802.1x/EAP-TLS, 802.1x/EAP-TTLS,

802.1x/EAP-PEAP

WLAN encryption WEP 64 (40 Bit), WEP 128 (104 Bit), WPA Enterprise Mode, WPA

PSK Mode, WPA2 Enterprise Mode, WPA2 PSK Mode

Channels 11 channels

WLAN can be enabled/disabled remotely with StoneGate Management Center

DSL & Ethernet

ADSL Integrated ADSL2/ADSL2+ modem, ITU G.992.1 Annex A

LAN interfaces WLAN and 4 x Ethernet 10/100

WAN Interface Ethernet 10/100 (RJ-45) or ADSL2/2+ (RJ-11)

PPPoA (RFC 2364) and PPPoE (RFC 2516)

PAP, CHAP, MS-CHAP, MS-CHAP v2

VPN

IPsec VPN

Encryption: AES, 3DES, DES, CAST, Blowfish, Twofish

Protocol: IKE with PSK support

NAT traversal support

Performance: 7 Mbps (AES)

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Management

Remote, centralized enterprise management with StoneGate Management Center, Java-based

GUI, encrypted and authenticated connections

Administration Easy mass implementation with StoneGate Management Center

wizard

Logging Methods Centralized logging with advanced filters

Alert Methods E-Mail, SMS (text message), SNMP trap, User-defined scripts

Administration View only live log monitoring for outsourcing customers. Fast and

extensive monitoring and reporting.

Granular audit trail to meet demanding compliance requirements

Performance

Firewall Performance 50 Mbps

ADSL performance ADSL2/ADSL2+, Downloads up to 12/24 Mbps

VPN Performance 7 Mbps (AES)

VPN Tunnels 2

Hardware

Power supply 12 V, 800 mA DC

Dimensions 158 mm x 25,7 mm x 99,5 mm (W x H x D), Wall mountable

Weight Approx. 450 g

2.2 RF Specifications

Type of Modulation	802.11b: DSSS (CCK, DQPSK, DBPSK)		
	802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
Data Rate	802.11b(11, 5.5, 2, 1 Mbps)		
	802.11g(54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps,		
	18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)		
Number of Channels	Number of Channels		
	USA, Canada and Taiwan: 1 ~ 11		
	Most European Countries: 1 ~ 13		
	France: 1 ~ 4		
Frequency Band	2.4 ~ 2.4835GHz		
Carrier Frequency of each channel	CH1:2412, CH2:2417, CH3:2422, CH4:2427,		
	CH5:2432, CH6:2437, CH7:2442, CH8:2447,		
	CH9:2452, CH10:2457, CH11:2462.		
Channel Spacing	5MHz		
Output Power	Max. Peak Output power:		
	802.11b: 19dBm		
	802.11g: 19dBm		
Antenna Type	Dipole Antenna		
Antenna Gain	2.0 dBi		

2.3 Test Mode & Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4
- b. The complete test system included IBM PC, Monitor, PS2 Keyboard, USB Mouse, Printer and EUT for EMI test.
- c. An executive program, EMITEST.EXE under WIN XP, which generates a complete line of continuously repeating "H" pattern was used as the test software.

The program was executed as follows:

- 1. Turn on the power of all equipment.
- 2. The PC reads the test program from the hard disk drive and runs it.
- 3. The PC sends "H" messages to the monitor, and the monitor displays "H" patterns on the screen.
- 4. The PC sends "H" messages to the internal Hard Disk, and the Hard Disk reads and writes the message.\
- 5. The PC sends "H" messages to the printer, and the printer reads and prints the message.
- 6. Repeat the steps from 2 to 5.
- d. An executive program, Hyperterminal.exe under WIN XP, which generates a continuous signal by the following frequency to test.
 - 802.11b (CH 01: 2412MHz) 802.11b (CH 06: 2437MHz) 802.11b (CH 11: 2462MHz)
 - 802.11g (CH 01: 2412MHz) 802.11g (CH 06: 2437MHz) 802.11g (CH 11: 2462MHz)

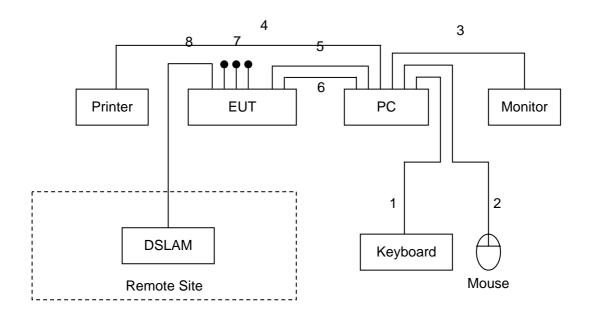
2.4 Description of Test System

Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m
			Data Cable, VGA Shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 Shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB Shielding 1.85 m
Printer	HP	Desk Jet400	Power Cable, Adapter Unshielding 1.8 m
			Data Cable, PRINT Shielding 1.6 m
DSLAM	ZYXEL	IES-1000	Power Cable, Unshielding 1.8 m
(Remote Workstation)			·

Use Cable:

Cable	Quantity	Description
RJ45	1	Unshielding, 1.5m
RJ45	3	Unshielding, 3.0m
RJ11	1	Unshielding, 3.0m
Mini USB to RS232	1	Shielding, 1.5m
DSLAM	1	Unshielding, 1.8m

2.5 Connection Diagram of Test System



- 1. The PS2 cable is connected from PC to the Keyboard.
- 2. The USB cable is connected from PC to the Mouse.
- 3. The VGA cable is connected from PC to the Monitor.
- 4. The PRINT cable is connected from PC to the Printer.
- 5. The RJ45 cable is connected from PC to the EUT.
- 6. The RS232 cable is connected from PC to the EUT.
- 7. Those RJ45 cables are floating.
- 8. The RJ11 cable is floating.

2.6 General Information of Test

Test Site :	Exclusive Certification Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei		
	City 114 Taiwan R.O.C.		
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township,		
	Taipei City 223, Taiwan, R.O.C.		
	Registration Number: 632249.		
FCC Registration Number :	632249		
IC Registration Number :	6597A-1		
VCCI Registration Number :	T-182 for Telecommunication Test		
	C-2188 for Conducted emission test		
	R-1902 for Radiated emission test		
Test Voltage:	AC 120V/ 60Hz		
Test in Compliance with:	ANSI C63.4-2003		
	FCC Part 15 Subpart C		
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz		
	Radiation: from 30 MHz to 24620MHz		
Test Distance:	The test distance of radiated emission from antenna to EUT is		
	3 M.		

2.7 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	2.71 dB
Radiated Emission	30 MHz ~ 1GHz	Vertical	4.11 dB
Radiated Emission	30 MHZ ~ TGHZ	Horizontal	4.10 dB
6 dB Bandwidth			7500 Hz
Maximum Peak Output Power			1.4 dB
100kHz Bandwidth of Frequency Band Edges			2.2 dB
Power Spectral Density			2.2 dB

2.8 History of this test report

■ ORIGINAL.

 $\hfill\square$ Additional attachment as following record:

Attachment No.	Issue Date	Description

3. Antenna Requirements

3.1 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 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

3.2 Antenna Construction and Directional Gain

Antenna type: Reverse SMA dipole Antenna

Antenna Gain: 2 dBi.

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4. Test of Conducted Emission

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

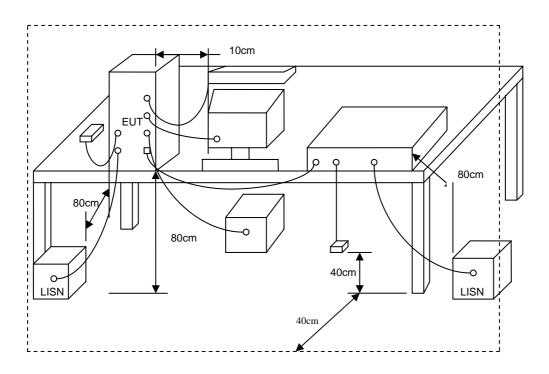
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 - 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 – 30.0	60	50

^{*}Decreases with the logarithm of the frequency.

4.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

4.3 Typical Test Setup

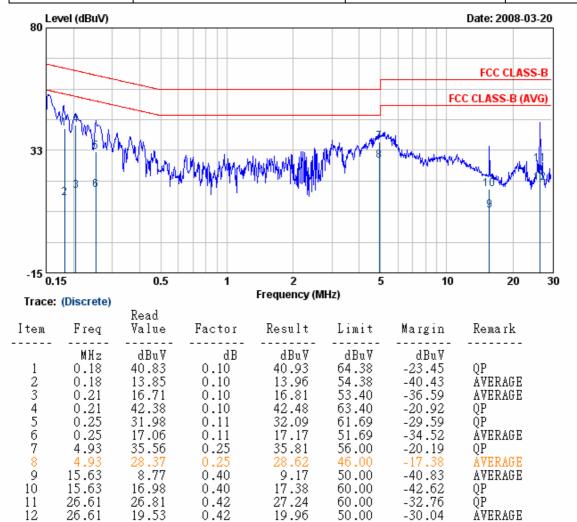


4.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Receiver	R&S	ESCI	100443	2007/09/27	2008/09/26
LISN	NNB-2/16Z	MESS TEC	02/10191	2007/05/14	2008/05/13
LISN	NNB-2/16Z	ROLF HEINE	03/10058	2007/04/19	2008/04/18

4.5 Test Result and Data

Power :	AC120V	Pol/Phase :	LINE
Test Mode :	802.11g CH1	Temperature :	23 °C
Memo :	FSP024-1ADA22A	Humidity :	58 %



Remarks: 1. Level = Read Level + Factor

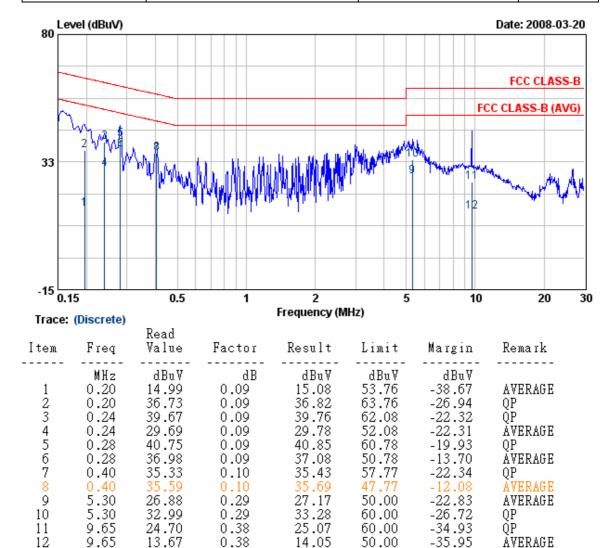
^{2.} Factor = LISN(ISN) Factor + Cable Loss

^{3.} All emission below 1GHz at 802.11b/g mode are all the same,so the

^{802.11}g mode chosen as representative in final test.
4. According to technical experiences, all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.

^{5.} The data is worse case.

Power :	AC120V	Pol/Phase :	NEUTRAL
Test Mode :	802.11g CH1	Temperature :	23 °C
Memo :	FSP024-1ADA22A	Humidity :	58 %



Remarks: 1. Level = Read Level + Factor

2. Factor = LISM(ISM) Factor + Cable Loss

3. All emission below 16Hz at 802.11b/g mode are all the same, so the 802.11g mode chosen as representative in final test.

4. According to technical experiences, all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.

5. The data is worse case.

Test engineer: Ben

5. Test of Radiated Emission

5.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Distance	Radiated	Radiated
(MHz)	Meters	(µ V / M)	(dB µ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

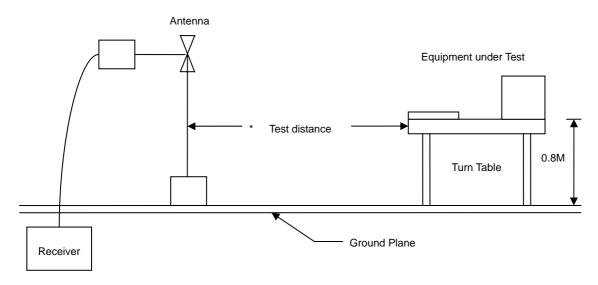
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB µ V/ M)
30-230	10	30
230-1000	10	37

5.2 Test Procedures

- 1. The EUT was placed on a rotatable table top 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- 5. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- 8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

5.3 Typical Test Setup

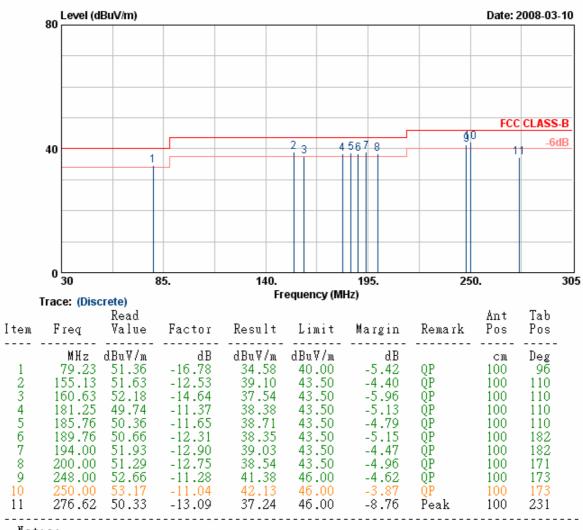


5.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	85460A	HP	3807A00454	2007/06/05	2008/06/04
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21
Horn Antenna	3115	EMCO	31601	2007/04/09	2008/04/08
Horn Antenna	3116	EMCO	31974	2007/04/04	2008/04/03
Bilog Antenna	CBL6112B	Schaffner	2840	2007/04/26	2008/04/25
Amplifier	8449B	Agilent	3008A01954	2008/01/24	2009/01/23
Amplifier	8447D	Agilent	2944A10531	2007/09/26	2008/09/25

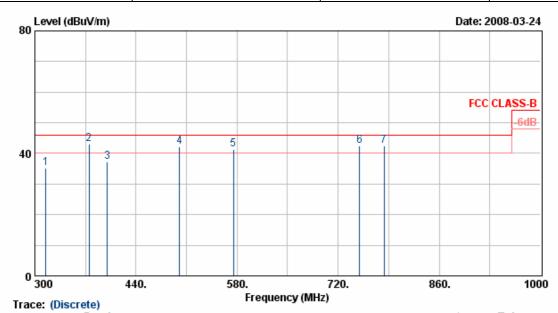
5.5 Test Result and Data

Power	:	AC120V	Pol/Phase	:	VERTICAL
Test Mode		Transmit / Receive	Temperature	:	20 °C
Operation Channel		1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo		FSP024-1ADA22A	Rate	:	12 Mbps



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

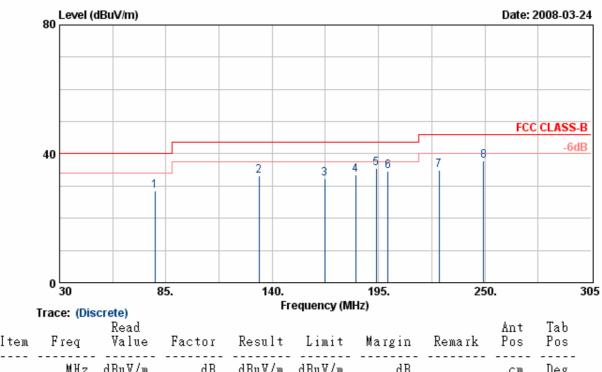
Power	:	AC120V	Pol/Phase	:	VERTICAL
Test Mode		Transmit / Receive	Temperature	:	20 °C
Operation Channel		1	Humidity	:	70 %
Modulation Type		802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	12 Mbps



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos	
1 2 3 4 5 6	MHz 315.40 374.90 400.00 500.00 574.98 749.40 783.70		dB -13.48 -9.35 -9.80 -4.86 -7.72 -3.16 -4.33	dBuV/m 35.31 42.95 37.12 42.27 41.19 42.38 42.49	dBuV/m 46.00 46.00 46.00 46.00 46.00 46.00 46.00	dB -10.69 -3.05 -8.88 -3.73 -4.81 -3.62 -3.51	Peak QP Peak QP QP QP	cm 100 100 100 100 100 100	Deg 96 96 122 122 182 182 182	

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 16Hz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.

Power	:	AC120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit / Receive	Temperature	:	20 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	12 Mbps

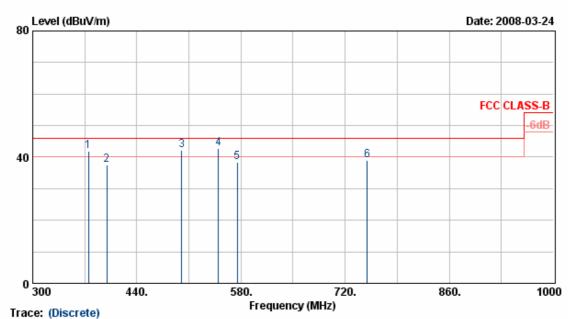


Item	Freq	Kead Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos	
1 2 3 4 5 6 7	MHz 79.23 133.13 167.23 183.18 193.90 199.99 226.35 249.45	52.82 52.27 54.79 55.66 53.53 52.44	dB -24.10 -19.58 -20.11 -21.47 -20.10 -18.99 -17.66 -15.81	dBuV/m 28.65 33.24 32.16 33.32 35.56 34.54 34.78 37.68	dBuV/m 40.00 43.50 43.50 43.50 43.50 43.50 46.00 46.00	dB -11.35 -10.26 -11.34 -10.18 -7.94 -8.96 -11.22 -8.32	Peak Peak Peak Peak Peak Peak Peak	cm 200 200 200 200 200 200 200 200	Deg 179 222 210 210 111 196 226 220	

- 1. Result = Read Value + Factor
- Factor = Antenna Factor + Cable Loss Amplifier
 The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak
- detection at frequency below 16Hz.

 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

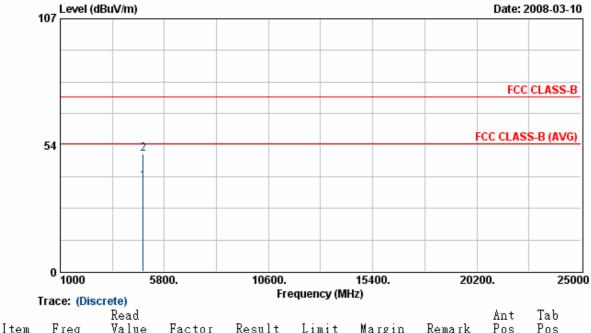
Power	:	AC120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit / Receive	Temperature	:	20 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	12 Mbps



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos	
1 2 3 4 5 6	MHz 374.90 399.92 500.20 549.98 574.98 749.40	46.80 48.99 46.93 43.95	dB -10.67 -9.31 -6.67 -4.04 -5.65 -5.16	dBuV/m 41.92 37.49 42.32 42.89 38.30 39.10	dBuV/m 46.00 46.00 46.00 46.00 46.00 46.00	dB -4.08 -8.51 -3.68 -3.11 -7.70 -6.90	QP Peak QP QP Peak Peak	cm 200 200 200 200 200 200 200	Deg 63 63 179 161 209 96	

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

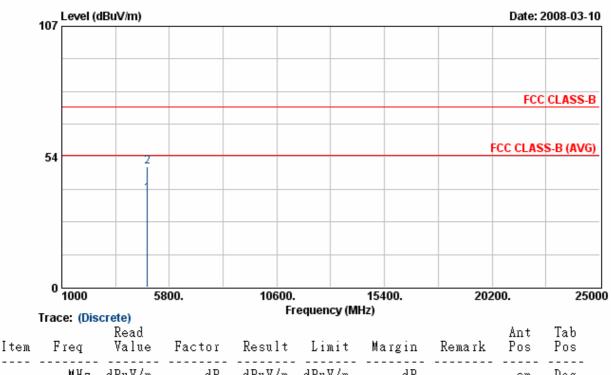
Power	:	AC120V	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit / Receive	Temperature		20 °C
Operation Channel	:	1	Humidity		70 %
Modulation Type	:	802.11b	Atmospheric Pressure		1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	11 Mbps



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
		29.51	dB 8.51 8.51	38.02	54.00	-15.98			210

- 1. Result = Read Value + Factor
 2. Factor = Antenna Factor + Cable Loss Amplifier
 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 16Hz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.

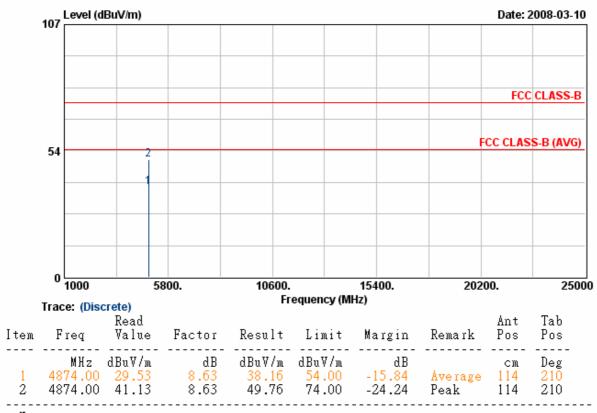
Power	:	AC120V	Pol/Phase	:	HORIZONTAL
Test Mode		Transmit / Receive	Temperature		20 °C
Operation Channel		1	Humidity		70 %
Modulation Type		802.11b	Atmospheric Pressure		1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	11 Mbps



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos	
1 2	MHz 4824.00 4824.00	20.10	dB 8.51 8.51			-16.04	Average Peak	cm 112 112	Deg 144 144	

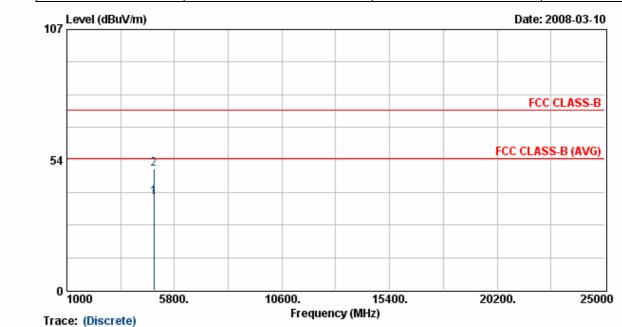
- 1. Result = Read Value + Factor
 2. Factor = Antenna Factor + Cable Loss Amplifier
 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 16Hz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.

Power	:	AC120V	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit / Receive	Temperature	:	20 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	11 Mbps



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

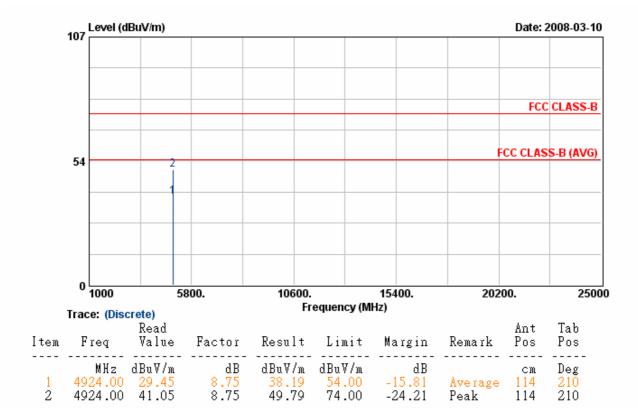
Power :	AC120V	Pol/Phase	:	HORIZONTAL
Test Mode :	Transmit / Receive	Temperature		20 °C
Operation Channel :	6	Humidity		70 %
Modulation Type :	802.11b	Atmospheric Pressure		1030 hPa
Memo :	FSP024-1ADA22A	Rate	:	11 Mbps



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
_	MHz 4873.50 4873.50	29.43	dB <mark>8.63</mark> 8.63	38.05			Average	cm 112 112	Deg <mark>144</mark> 144

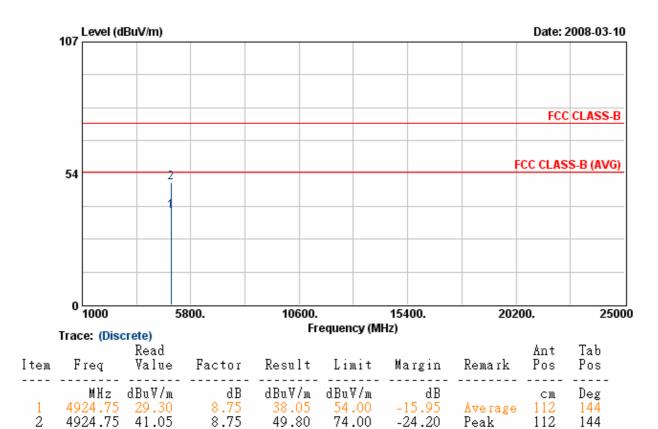
- 1. Result = Read Value + Factor
- Result Read value | Tactor | Tact detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

Power	:	AC120V	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit / Receive	Temperature		20 °C
Operation Channel	:	11	Humidity		70 %
Modulation Type	:	802.11b	Atmospheric Pressure		1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	11 Mbps



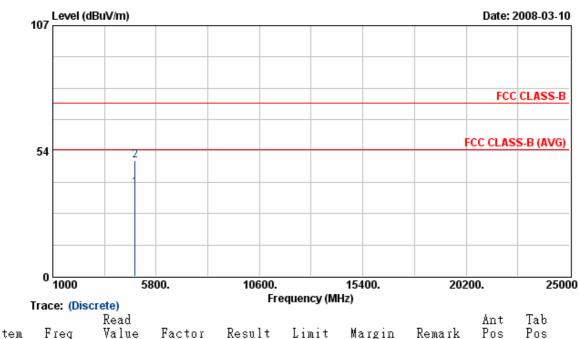
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- б. The other emissions is too low to be measured.

Power	:	AC120V	Pol/Phase	:	HORIZONTAL
Test Mode		Transmit / Receive	Temperature	:	20 °C
Operation Channel		11	Humidity	:	70 %
Modulation Type		802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	11 Mbps



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 16Hz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

Power	:	AC120V	Pol/Phase	:	VERTICAL
Test Mode		Transmit / Receive	Temperature		20 °C
Operation Channel		1	Humidity		70 %
Modulation Type		802.11g	Atmospheric Pressure		1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	12 Mbps

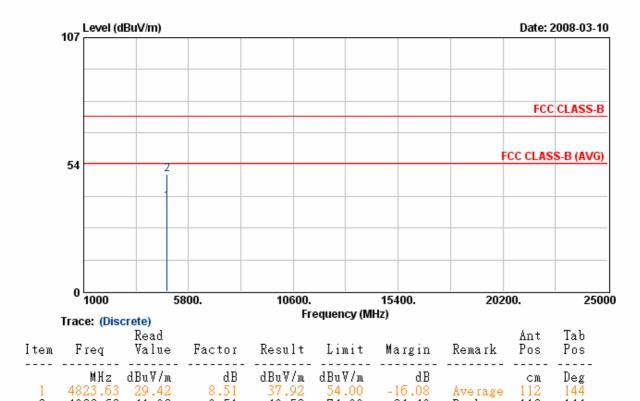


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
1 2		29.42	8.51		54.00		Average Peak		Deg 210 210

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.

 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.

Power	:	AC120V	Pol/Phase	:	HORIZONTAL
Test Mode		Transmit / Receive	Temperature	:	20 °C
Operation Channel		1	Humidity	:	70 %
Modulation Type		802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	12 Mbps



4823.63 41.02

2

- 1. Result = Read Value + Factor

49.52

8.51

 Factor = Antenna Factor + Cable Loss - Amplifier
 The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 16Hz.

54.00

74.00

-24.48

- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

Average

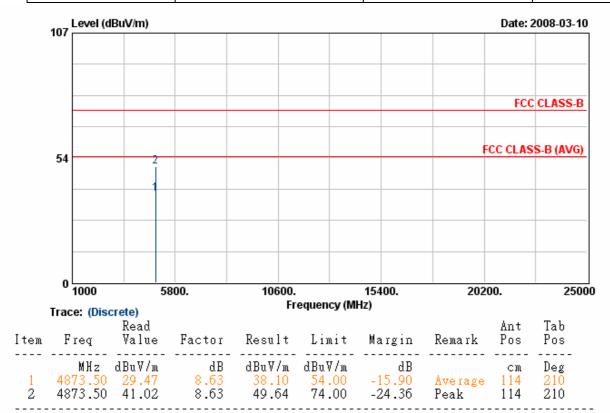
Peak

144

144

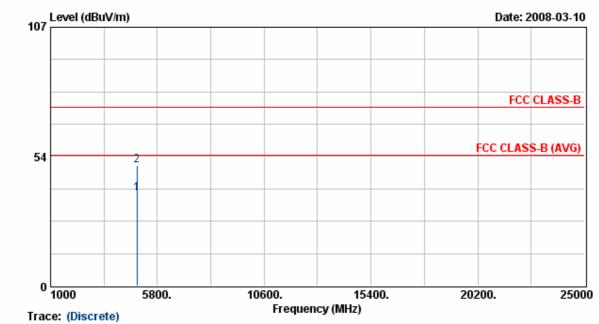
112

Power	:	AC120V	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit / Receive	Temperature	:	20 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	12 Mbps



- 1. Result = Read Value + Factor
- Factor = Antenna Factor + Cable Loss Amplifier
 The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 16Hz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

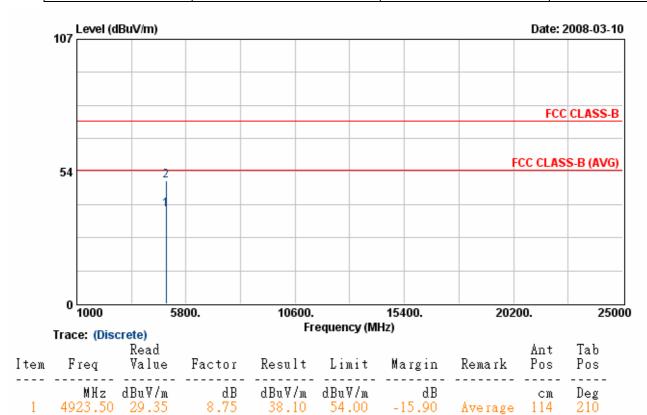
Power :	AC120V	Pol/Phase	:	HORIZONTAL
Test Mode :	Transmit / Receive	Temperature	:	20 °C
Operation Channel :	6	Humidity	:	70 %
Modulation Type :	802.11g	Atmospheric Pressure	:	1030 hPa
Memo :	FSP024-1ADA22A	Rate	:	12 Mbps



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
1 2	MHz 4873.25 4873.25		dB 8.63 8.63	dBuV/m 38.04 49.68		dB -15.96 -24.32		cm 112 112	Deg 144 144

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 16Hz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

Power	:	AC120V	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit / Receive	Temperature	:	20 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	12 Mbps



4923.50 40.97

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier

49.72

8.75

3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.

74.00

-24.28

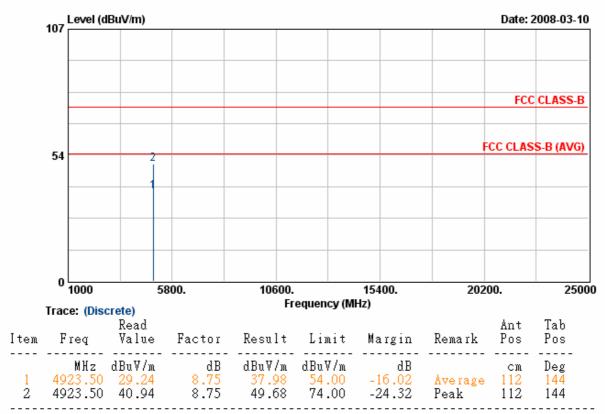
Peak

- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

210

114

Power	:	AC120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit / Receive	Temperature	:	20 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:	FSP024-1ADA22A	Rate	:	12 Mbps



1. Result = Read Value + Factor

2. Factor = Antenna Factor + Cable Loss - Amplifier

3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.

4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.

 The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.

6. The other emissions is too low to be measured.

Test engineer: Ben

6. 6dB Bandwidth Measurement Data

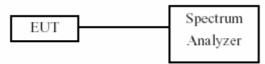
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

- 1. The transmitter output was connected to the spectrum analyzer.
- 2. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- 3. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

6.3 Test Setup Layout



6.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2008/02/22	2009/02/21

6.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

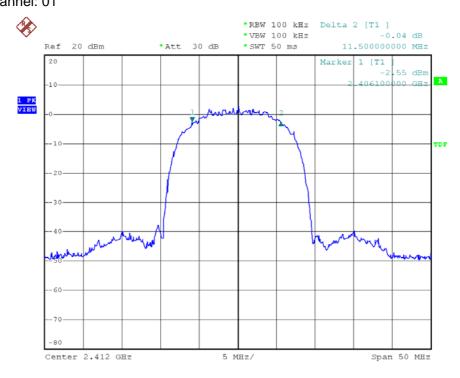
Test Date: Mar. 07, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	6dB Bandwidth			
Channel	(MHz)	(MHz)			
01	2412	11.50			
06	2437	11.50			
11	2462	11.90			

(2) Modulation Standard: IEEE 802.11g (12Mbps)

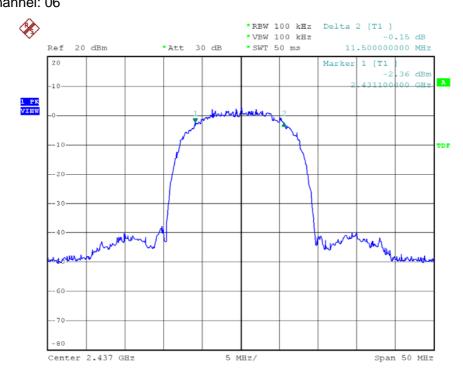
Test Date: Mar. 07, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	6dB Bandwidth		
Channel	(MHz)	(MHz)		
01	2412	16.40		
06	2437	16.40		
11	2462	16.40		

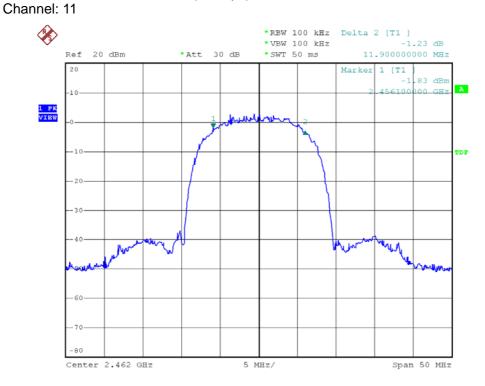


Date: 7.MAR.2008 10:56:02

Modulation Standard: 802.11b (11Mbps) Channel: 06

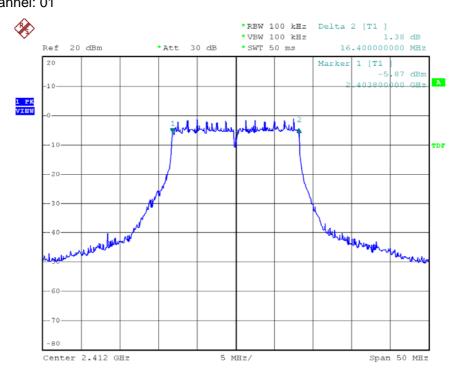


Date: 7.MAR.2008 10:54:09

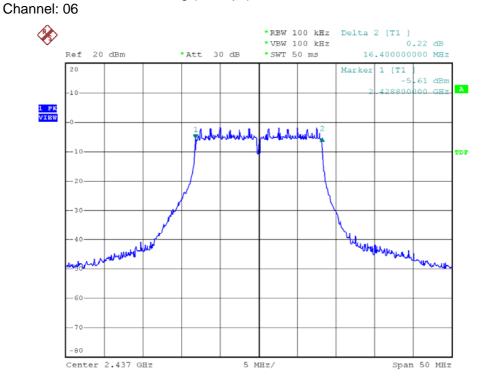


Date: 7.MAR.2008 10:51:02

Modulation Standard: 802.11g (12Mbps) Channel: 01

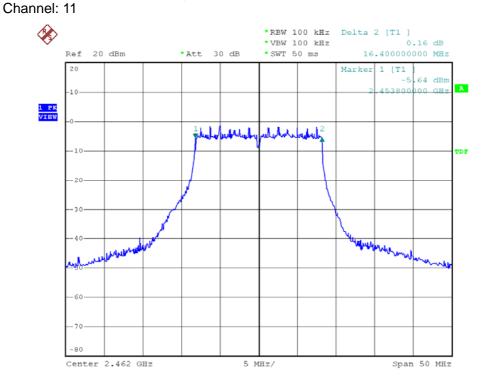


Date: 7.MAR.2008 10:44:30



Date: 7.MAR.2008 10:46:04

Modulation Standard: 802.11g (12Mbps)



Date: 7.MAR.2008 10:48:48

7. Maximum Peak Output Power

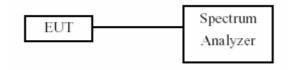
7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 Test Procedures

The antenna port(RF output)of the EUT was connected to the input(RF input)of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

7.3 Test Setup Layout



7.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2008/02/22	2009/02/21

7.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

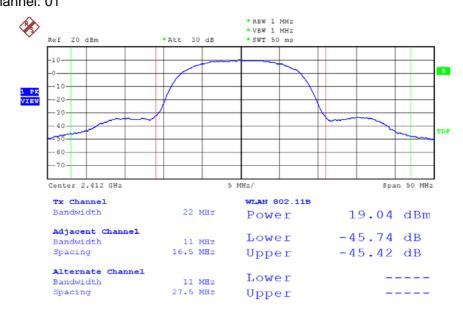
Test Date: Mar. 07, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channal	Frequency	Peak Power Output	Peak Power Output
Channel	(MHz)	(dBm)	(mW)
01	2412	19.04	80.20
06	2437	18.99	79.30
11	2462	19.10	81.30

(2) Modulation Standard: IEEE 802.11g (12Mbps)

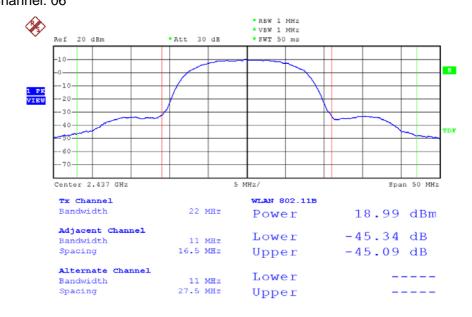
Test Date: Mar. 07, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channal	Frequency	Peak Power Output	Peak Power Output
Channel	(MHz)	(dBm)	(mW)
01	2412	19.05	80.40
06	2437	18.99	79.30
11	2462	18.95	78.50



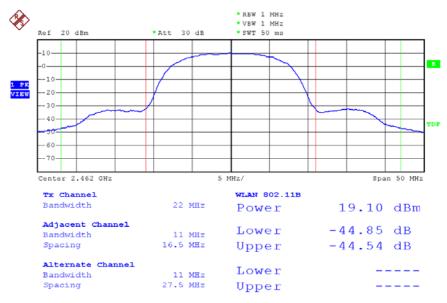
Date: 7.MAR.2008 10:28:13

Modulation Standard: 802.11b (11Mbps) Channel: 06



Date: 7.MAR.2008 10:30:09

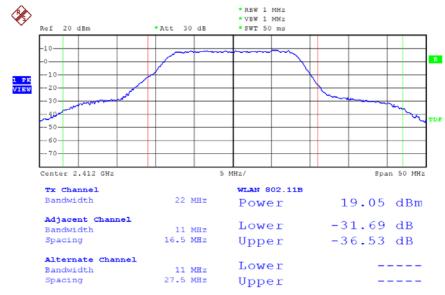
Channel: 11



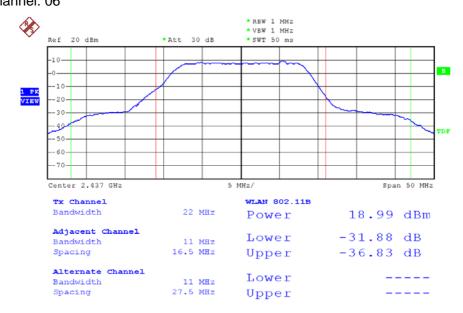
Date: 7.MAR.2008 10:30:56

Modulation Standard: 802.11g (12Mbps)

Channel: 01

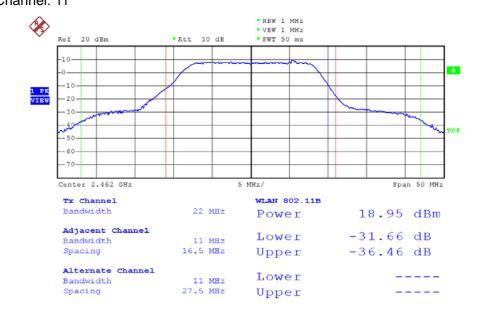


Date: 7.MAR.2008 10:43:25



Date: 7.MAR.2008 10:39:21

Modulation Standard: 802.11g (12Mbps) Channel: 11



Date: 7.MAR.2008 10:34:46

8. Band Edges Measurement

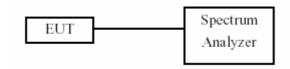
8.1 Test Limit

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

8.2 Test Procedure:

- 1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- 2. Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- 3. The band edges was measured and recorded.

8.3 Test Setup Layout



8.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2008/02/22	2009/02/21

8.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

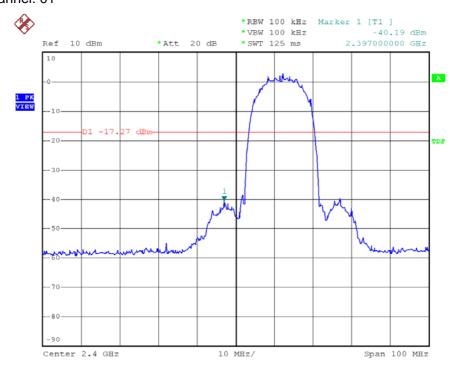
Test Date: Mar. 07, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channal		maximum value in frequency	maximum value is
Channel	Frequency	(MHz)	(dBm)
01	2412	2397.00	-40.19
11	2462	2860.00	-51.07

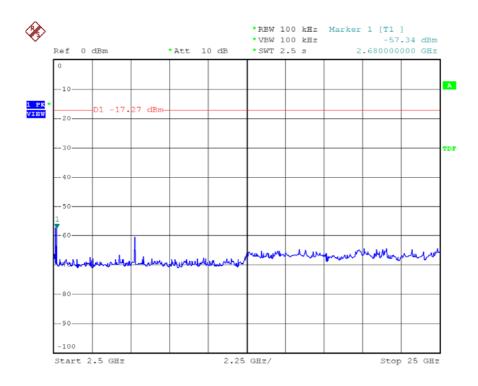
(2) Modulation Standard: IEEE 802.11g (12Mbps)

Test Date: Mar. 07, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

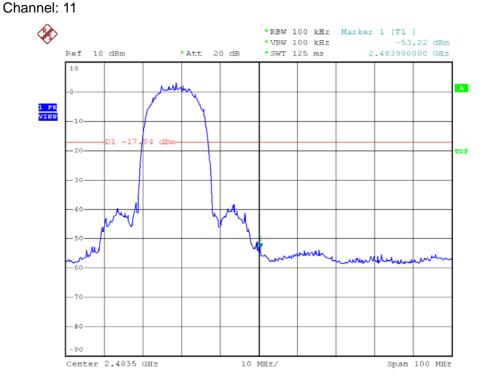
Channal	Fraguenay	maximum value in frequency	maximum value is	
Channel	Frequency	(MHz)	(dBm)	
01	2412	2399.80	-33.28	
11	2462	2483.90	-52.59	



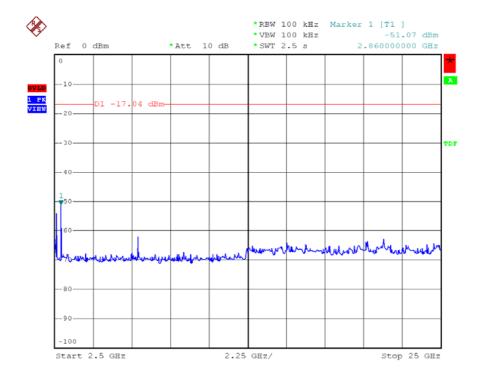
Date: 7.MAR.2008 10:59:19



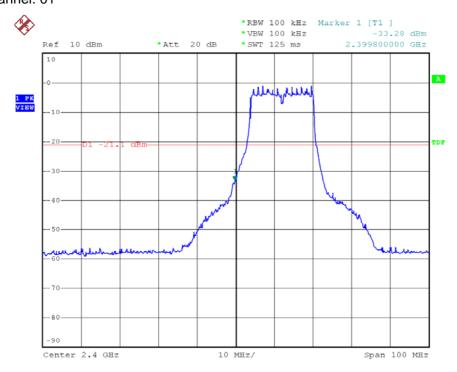
Date: 7.MAR.2008 11:00:27



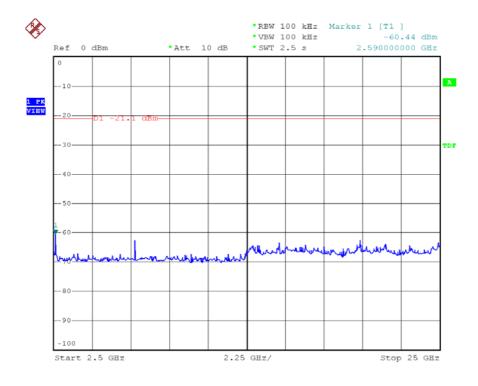
Date: 7.MAR.2008 11:03:05



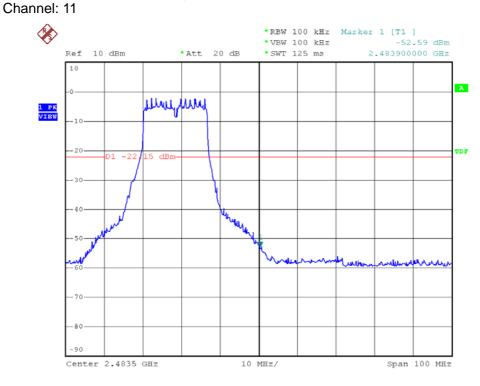
Date: 7.MAR.2008 11:04:51



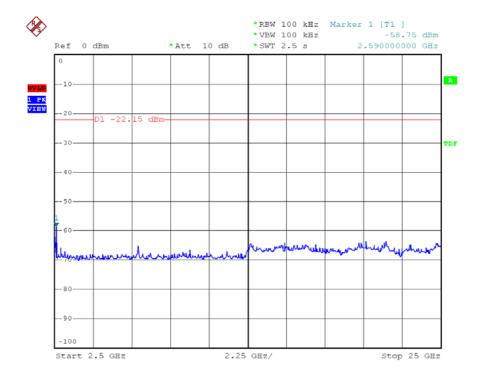
Date: 7.MAR.2008 11:11:13



Date: 7.MAR.2008 11:11:47



Date: 7.MAR.2008 11:06:29



Date: 7.MAR.2008 11:06:59

FCC Test Report: FI 07122603-A

8.6 Restrict band emission Measurement Data

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Mar. 10, 2008 Temperature: 20 Humidity: 70% Atmospheric pressure: 1030 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit((dBu)		Margin (dB)	Table (Deg.)	Ant High
		3		(* * * *)		Peak	Ave.	(,	(-3)	(m)
2318.57	Н	49.87	-1.88	47.99	Peak	74	54	-26.01	145	1.12
2389.97	Н	38.25	-1.65	36.60	Ave	74	54	-17.40	145	1.12
2389.97	V	55.46	-1.65	53.81	Peak	74	54	-20.19	212	1.22
2389.97	V	43.64	-1.65	41.99	Ave	74	54	-12.01	212	1.22

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Result (dBuV/m) Remark	Limit((dBu)		Margin (dB)	Table (Deg.)	Ant High
(,		Treading Tactor (abavini)		Peak	Ave.	()	(= -9-)	(m)		
2491.91	Н	50.25	-1.33	48.92	Peak	74	54	-25.08	145	1.12
2483.51	Н	38.28	-1.35	36.93	Ave	74	54	-17.07	145	1.12
2490.27	V	52.77	-1.33	51.44	Peak	74	54	-22.56	212	1.22
2493.88	V	40.84	-1.32	39.52	Ave	74	54	-14.48	212	1.22

Modulation Standard: 802.11g (12Mbps)

Test Date: Mar. 10, 2008 Temperature: 20 Humidity: 70% Atmospheric pressure: 1030 hPa

c) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m) Remark		Limit(dBu		Margin (dB)	Table (Deg.)	Ant High
		J	, ,		Peak	Ave.	(-)	(= -9-7	(m)	
2389.76	Н	51.02	-1.65	49.37	Peak	74	54	-24.63	145	1.12
2389.97	Н	39.32	-1.65	37.67	Ave	74	54	-16.33	145	1.12
2389.87	V	63.16	-1.65	61.51	Peak	74	54	-12.49	212	1.22
2389.97	V	51.88	-1.65	50.23	Ave	74	54	-3.77	212	1.22

d) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m) Remar		Limit(dBu		Margin (dB)	Table (Deg.)	Ant High
		Trodding Table (abavin)		Peak	Ave.		(= -9-)	(m)		
2483.51	Н	51.29	-1.35	49.97	Peak	74	54	-24.06	145	1.12
2483.51	Н	39.77	-1.35	38.42	Ave	74	54	-15.58	145	1.12
2483.55	V	58.11	-1.35	56.76	Peak	74	54	-17.24	212	1.22
2483.51	V	46.68	-1.35	45.33	Ave	74	54	-8.67	212	1.22

Notes:

- 1. Result = Meter Reading + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz

9. Power Spectral Density

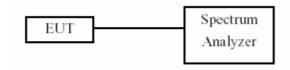
9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

9.2 Test Procedures

- 1. The transmitter output was connected to spectrum analyzer.
- 2. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.
- 3. The power spectral density was measured and recorded.
- 4. The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

9.3 Test Setup Layout:



9.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2008/02/22	2009/02/21

9.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Mar. 07, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

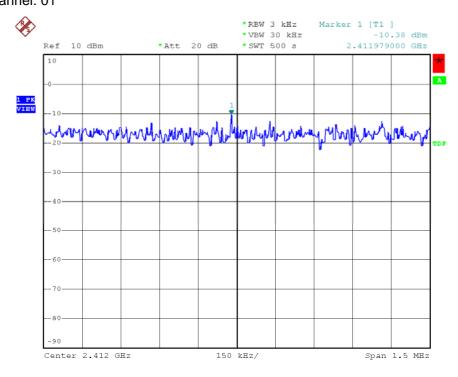
Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-10.38
06	2437	-9.60
11	2462	-9.61

(2) Modulation Standard: IEEE 802.11g (12Mbps)

Test Date: Mar. 07, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

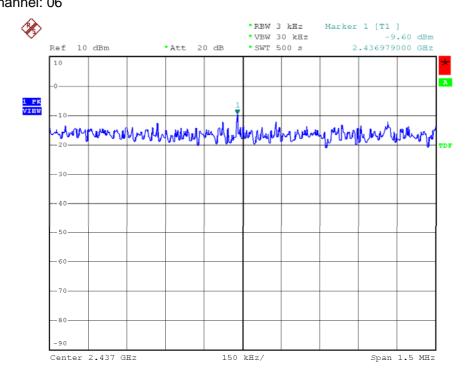
Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-12.25
06	2437	-12.24
11	2462	-12.24

I ssued date: Mar. 25, 2008

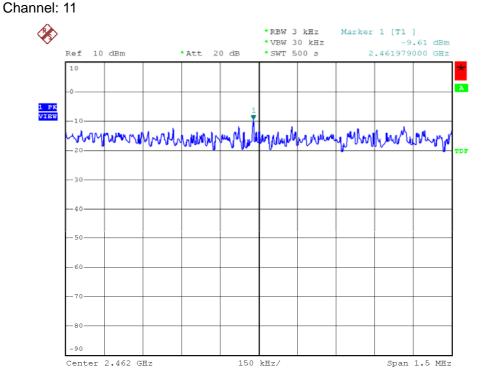


Date: 7.MAR.2008 11:58:31

Modulation Standard: 802.11b (11Mbps) Channel: 06

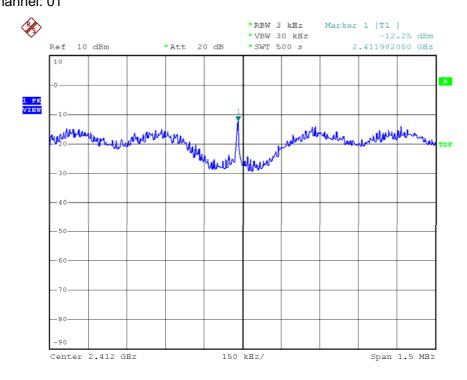


Date: 7.MAR.2008 11:57:38

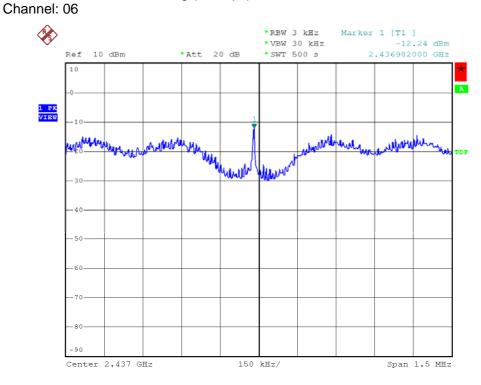


Date: 7.MAR.2008 11:56:47

Modulation Standard: 802.11g (12Mbps) Channel: 01

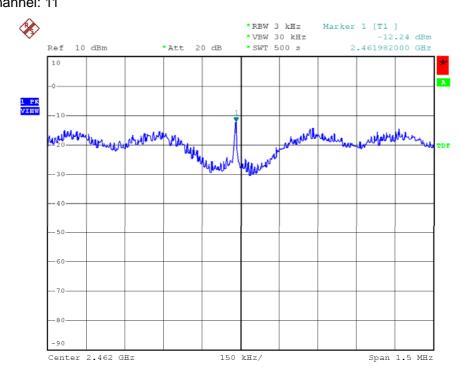


Date: 7.MAR.2008 11:31:13



Date: 7.MAR.2008 11:40:33

Modulation Standard: 802.11g (12Mbps) Channel: 11



Date: 7.MAR.2008 11:55:53

10. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 – 410.0	4.500 - 5.250
0.49500 - 0.505**	16.69475 – 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 – 16.80475	960.0 - 1240.0	7.250 – 7.750
4.12500 - 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 - 38.25000	1435.0 – 1626.5	9.000 - 9.200
4.20725 - 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 - 12.700
6.26775 - 6.26825	108.00000 - 121.94000	1718.8 – 1722.2	13.250 - 13.400
6.31175 - 6.31225	123.00000 - 138.00000	2200.0 - 2300.0	14.470 – 14.500
8.29100 - 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 - 16.200
8.36200 - 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 – 156.90000	2655.0 - 2900.0	22.010 – 23.120
8.41425 - 8.41475	162.01250 – 167.17000	3260.0 - 3267.0	23.600 - 24.000
12.29000 - 12.29300	167.72000 – 173.20000	3332.0 - 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 - 285.00000	3345.8 - 3358.0	36.430 - 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 - 13.41000			

^{**:} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

10.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

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.