



Test Report

Product Name	Multi-Service Wireless Gateway
Model No.	B1000W, MSG100W, WHG102, W1320, WIAS-1200G
FCC ID	R3M-W1320

Applicant	Cipherium Systems Co., Ltd.
Address	3F.-3, NO. 369, FUSING N. RD., SONGSHAN DISTRICT, TAIPEI CITY 105, TAIWAN (R.O.C.)

Date of Receipt	June 06, 2007
Issued Date	Aug. 15, 2007
Report No.	077013R-RFUSP05V01

The test results relate only to the samples tested.
 The test report shall not be reproduced except in full without the written approval of Quietek Corporation.
 This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issued Date: Aug. 15, 2007

Report No.: 077013R-RFUSP05V01



Accredited by NIST (NVLAP)
NVLAP Lab Code: 200533-0

Product Name	Multi-Service Wireless Gateway
Applicant	Cipherium Systems Co., Ltd.
Address	3F.-3, NO. 369, FUSING N. RD., SONGSHAN DISTRICT, TAIPEI CITY 105, TAIWAN (R.O.C.)
Manufacturer	GIGA-BYTE TECHNOLOGY CO., LTD
Address	5FL., No. 6, Bau Chiang Road, Hsin-Tien, Taipei-Hsien, Taiwan, R.O.C.
Model No.	B1000W, MSG100W, WHG102, W1320, WIAS-1200G
Rated Voltage	AC 120V/60Hz
Working Voltage	AC 120V/60Hz
Trade Name	Cipherium, NetField, 4ipnet, USC, Air Live
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2006 ANSI C63.4: 2003
Test Result	Complied



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Documented By : Rita Huang
(Engineering Adm. Specialist / Rita Huang)



Tested By : Molin Huang
(Engineer / Molin Huang)



Approved By : Gene Chang
(President / Gene Chang)

0914

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Multi-Service Wireless Gateway
Trade Name	Cipherium, NetField, 4ipnet, USC, Air Live
Model No.	B1000W, MSG100W, WHG102, W1320, WIAS-1200G
FCC ID.	R3M-W1320
Frequency Range	2412 – 2462MHz
Number of Channels	11
Data Speed	IEEE 802.11b – 1, 2, 5.5, 11Mbps IEEE 802.11g – 6, 9, 12, 18, 24, 36 48, 54Mbps
Type of Modulation	DSSS/ OFDM
Antenna Type	Dipole
Antenna Gain	Refer to the table “Antenna List”
Channel Control	Auto
Power Adapter	MFR: DVE M/N: DSA-36W-12124 Cable out: Non-Shielded, 1.6m Power Cord: Shielded, 1.8m

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	ARISTOTLE	RFA-02-5-C7M3-B32-R	4.5dBi for 2.4 GHz

Frequency of Each Channel:

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

Note:

1. The EUT is a Multi-Service Wireless Gateway with a built-in 2.4GHz WLAN transceiver.
2. The different of the each model is shown as below:

Trade Name	Model Number
Cipherium	B1000W, W1320
NetField	B1000W
4ipnet	MSG100W, WHG102
USC	W1320
Air Live	WIAS-1200G

3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps and 802.11g is 6Mbps)
5. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices
6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

1.2. Operational Description

The EUT is a Multi-Service Wireless Gateway with a built-in 2.4GHz transceiver. There are 11 channels in 2412 – 2462MHz. The channels are separated by 5MHz. This device supports the data rates of 1, 2, 5.5, 11Mbps in 802.11b mode and 6, 9, 12, 18, 24, 36, 48, 54Mbps in 802.11g mode. The signals are modulated by DSSS in 802.11b mode and OFDM in 802.11g mode. The antenna type is Dipole.

Test Mode	Mode 1: Transmitter 802.11b
	Mode 2: Transmitter 802.11g

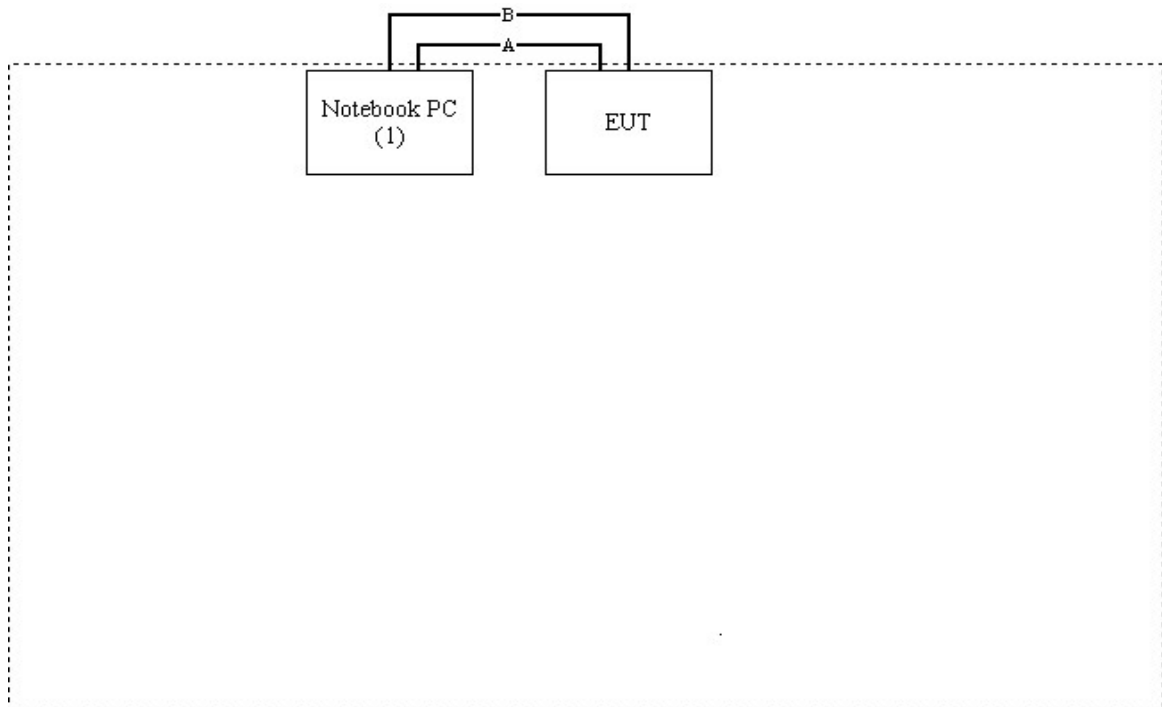
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
I.	Notebook PC	DELL	PP04X	2D2ZM1S	N/A	Non-Shielded, 0.8m

	Signal Cable Type	Signal cable Description
A.	LAN Cable	Shielded, 1.0m
B.	RS-232 Cable	Shielded, 1.8m

1.4. Configuration of Test System



1.5. EUT Exercise Software

- 1 Setup the EUT as shown in section 1.4
- 2 Execute the TFTP32.EXE Ver.2.80 program (the continuous transmission program) on the EUT
- 3 Setup the test mode, the test channel, and the data rate.
- 4 Press OK to start the transmission.
- 5 Verify that the EUT works correctly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: File on
 Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Reference 31040/SIT1300F2



Accreditation on NVLAP
 NVLAP Lab Code: 200533-0



Site Name: Quietek Corporation
 Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
 Lin-Kou Shiang, Taipei,
 Taiwan, R.O.C.
 TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
 E-Mail : service@quietek.com



FCC Accreditation Number: TW1014

2. Conducted Emission

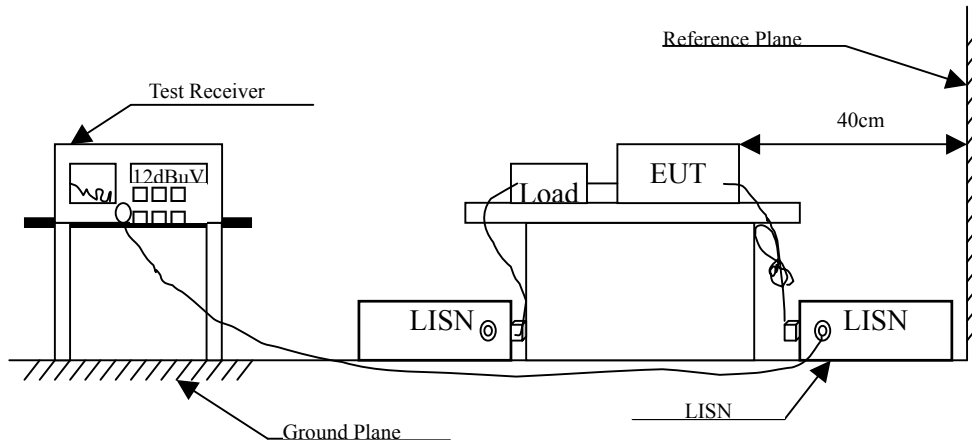
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2007	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2007	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2007	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2007	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56 ^(註)	56-46 ^(註)
0.50-5.0	56	46
5.0 - 30	60	50

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Multi-Service Wireless Gateway
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.279	0.213	33.840	34.053	-28.261	62.314
0.412	0.215	42.540	42.755	-15.759	58.514
0.599	0.218	35.850	36.068	-19.932	56.000
0.877	0.231	33.710	33.941	-22.059	56.000
1.236	0.246	32.690	32.936	-23.064	56.000
2.025	0.277	30.860	31.137	-24.863	56.000
Average					
0.279	0.213	31.990	32.203	-20.111	52.314
0.412	0.215	40.100	40.315	-8.199	48.514
0.599	0.218	33.880	34.098	-11.902	46.000
0.877	0.231	30.220	30.451	-15.549	46.000
1.236	0.246	26.250	26.496	-19.504	46.000
2.025	0.277	24.280	24.557	-21.443	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Multi-Service Wireless Gateway
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.275	0.203	36.680	36.883	-25.546	62.429
0.416	0.215	43.910	44.125	-14.275	58.400
0.599	0.218	36.580	36.798	-19.202	56.000
0.873	0.231	34.330	34.561	-21.439	56.000
1.658	0.262	31.920	32.182	-23.818	56.000
2.025	0.277	32.190	32.467	-23.533	56.000
Average					
0.275	0.203	35.210	35.413	-17.016	52.429
0.416	0.215	41.700	41.915	-6.485	48.400
0.599	0.218	33.650	33.868	-12.132	46.000
0.873	0.231	30.900	31.131	-14.869	46.000
1.658	0.262	25.820	26.082	-19.918	46.000
2.025	0.277	25.450	25.727	-20.273	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Multi-Service Wireless Gateway
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: Transmitter 802.11g (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.275	0.212	35.030	35.242	-27.187	62.429
0.412	0.215	42.690	42.905	-15.609	58.514
0.599	0.218	35.830	36.048	-19.952	56.000
0.877	0.231	33.650	33.881	-22.119	56.000
1.232	0.246	32.970	33.216	-22.784	56.000
2.771	0.306	26.890	27.196	-28.804	56.000
Average					
0.275	0.212	33.920	34.132	-18.297	52.429
0.412	0.215	41.560	41.775	-6.739	48.514
0.599	0.218	33.650	33.868	-12.132	46.000
0.877	0.231	29.560	29.791	-16.209	46.000
1.232	0.246	23.230	23.476	-22.524	46.000
2.771	0.306	16.060	16.366	-29.634	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Multi-Service Wireless Gateway
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: Transmitter 802.11g (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.279	0.203	34.970	35.173	-27.141	62.314
0.416	0.215	43.930	44.145	-14.255	58.400
0.599	0.218	36.560	36.778	-19.222	56.000
0.830	0.231	34.200	34.431	-21.569	56.000
1.276	0.247	30.770	31.017	-24.983	56.000
2.025	0.277	32.270	32.547	-23.453	56.000
Average					
0.279	0.203	32.750	32.953	-19.361	52.314
0.416	0.215	39.460	39.675	-8.725	48.400
0.599	0.218	33.710	33.928	-12.072	46.000
0.830	0.231	30.580	30.811	-15.189	46.000
1.276	0.247	19.160	19.407	-26.593	46.000
2.025	0.277	25.070	25.347	-20.653	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

3.1. Test Equipment

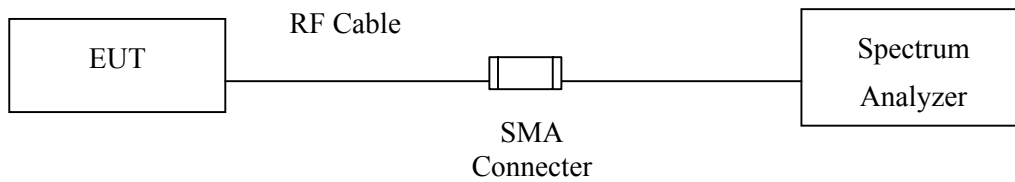
The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by “X” are used to measure the final test results.

3.2. Test Setup

Conducted Measurement



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Uncertainty

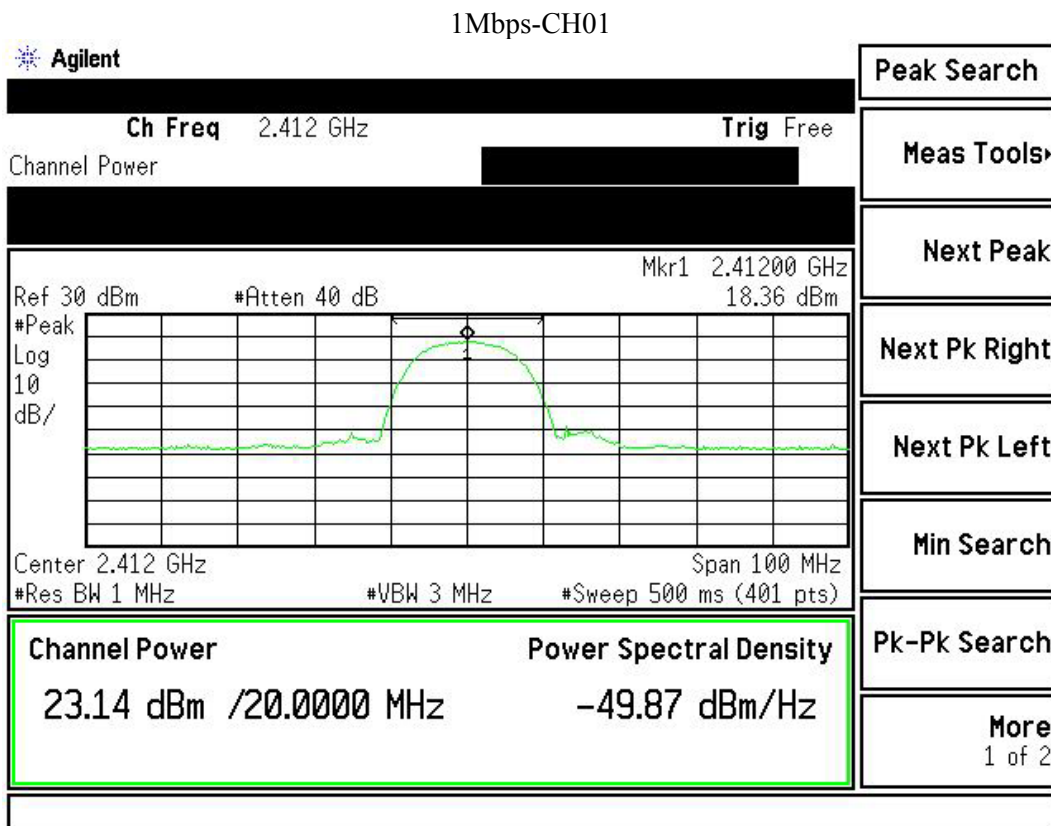
± 1.27 dB

3.5. Test Result of Peak Power Output

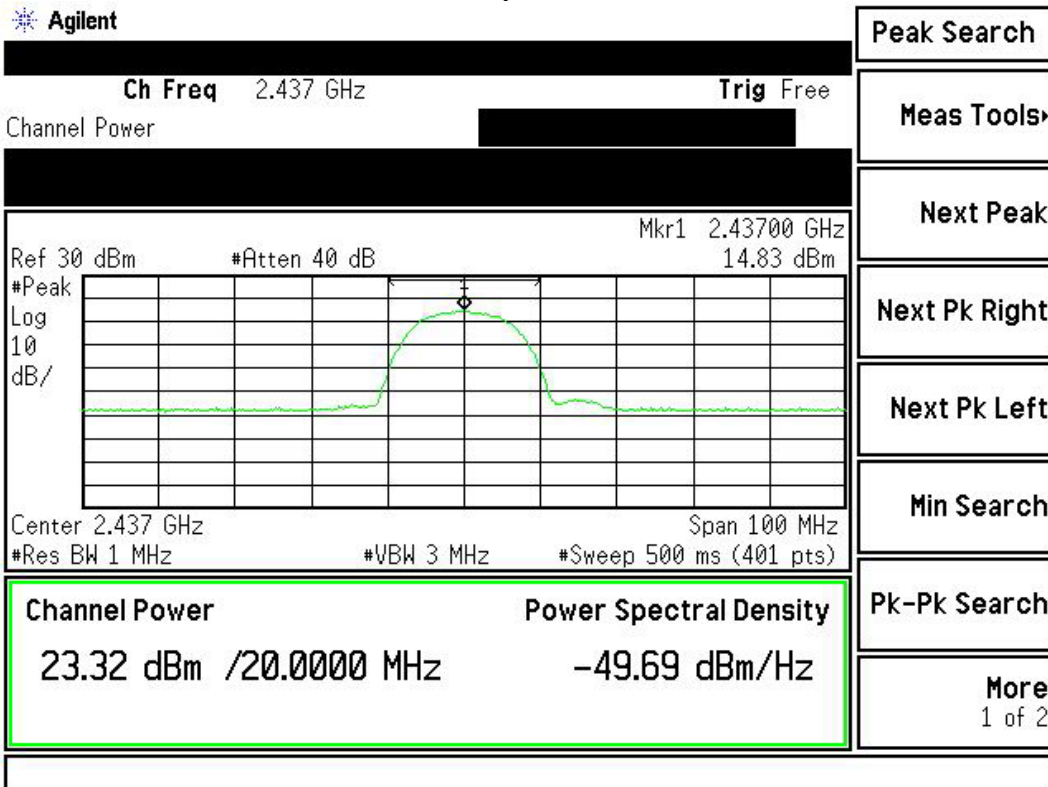
Product : Multi-Service Wireless Gateway
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

Data Speed: 11Mbps

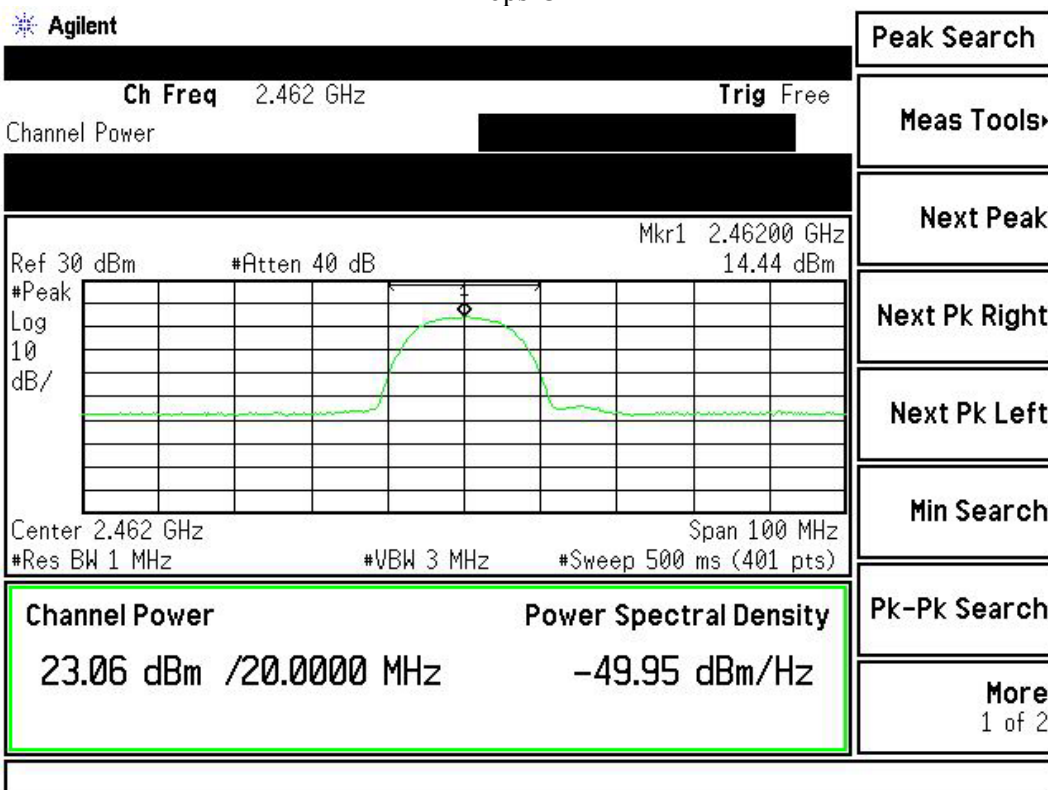
Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	23.14dBm	1 Watt= 30 dBm	Pass
6	2437.00	23.32dBm	1 Watt= 30 dBm	Pass
11	2462.00	23.06dBm	1 Watt= 30 dBm	Pass



1Mbps-CH06



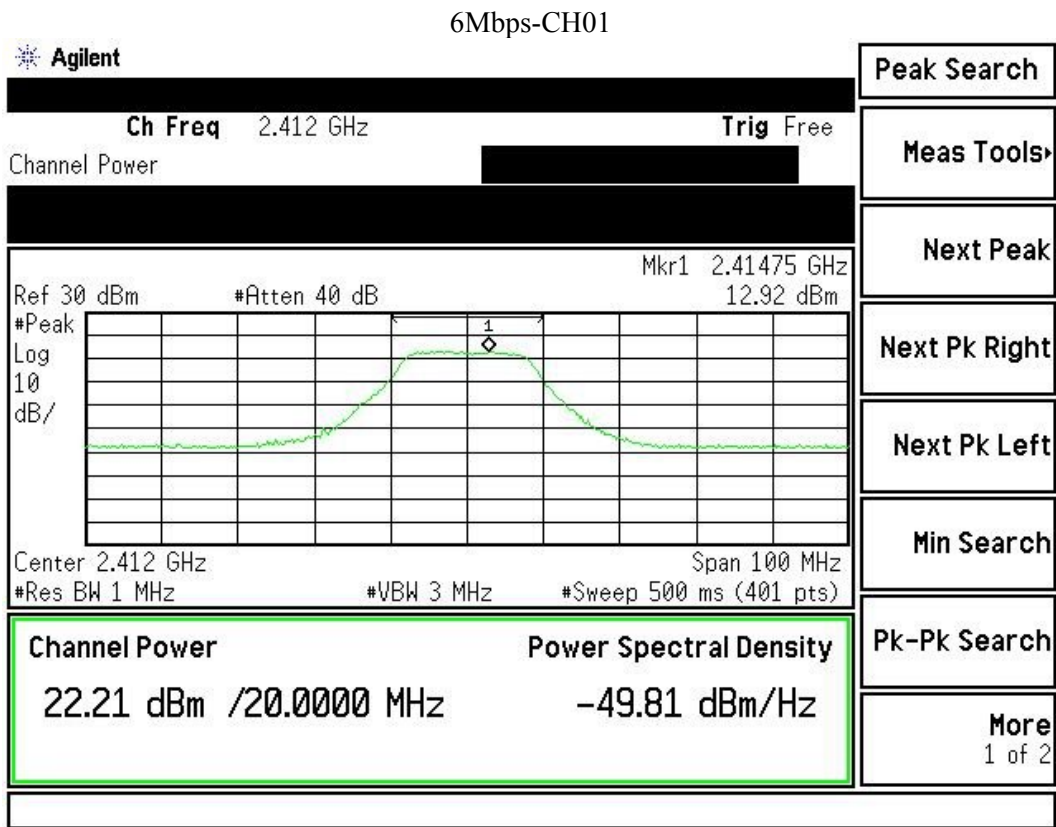
1Mbps-CH11



Product : Multi-Service Wireless Gateway
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g

Data Speed: 54Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	22.21dBm	1 Watt= 30 dBm	Pass
6	2437.00	22.55dBm	1 Watt= 30 dBm	Pass
11	2462.00	22.43dBm	1 Watt= 30 dBm	Pass



6Mbps-CH06

Agilent

Ch Freq 2.437 GHz **Trig** Free

Channel Power [REDACTED]

Ref 30 dBm #Atten 40 dB Mkr1 2.43700 GHz 12.43 dBm

#Peak Log 10 dB/

Center 2.437 GHz Span 100 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 500 ms (401 pts)

Channel Power	Power Spectral Density
22.55 dBm /20.0000 MHz	-50.96 dBm/Hz

Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More 1 of 2

6Mbps-CH11

Agilent

Ch Freq 2.462 GHz **Trig** Free

Channel Power [REDACTED]

Ref 30 dBm #Atten 40 dB Mkr1 2.46175 GHz 11.88 dBm

#Peak Log 10 dB/

Center 2.462 GHz Span 100 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 500 ms (401 pts)

Channel Power	Power Spectral Density
22.43 dBm /20.0000 MHz	-51.58 dBm/Hz

Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More 1 of 2

4. Radiated Emission

4.1. Test Equipment

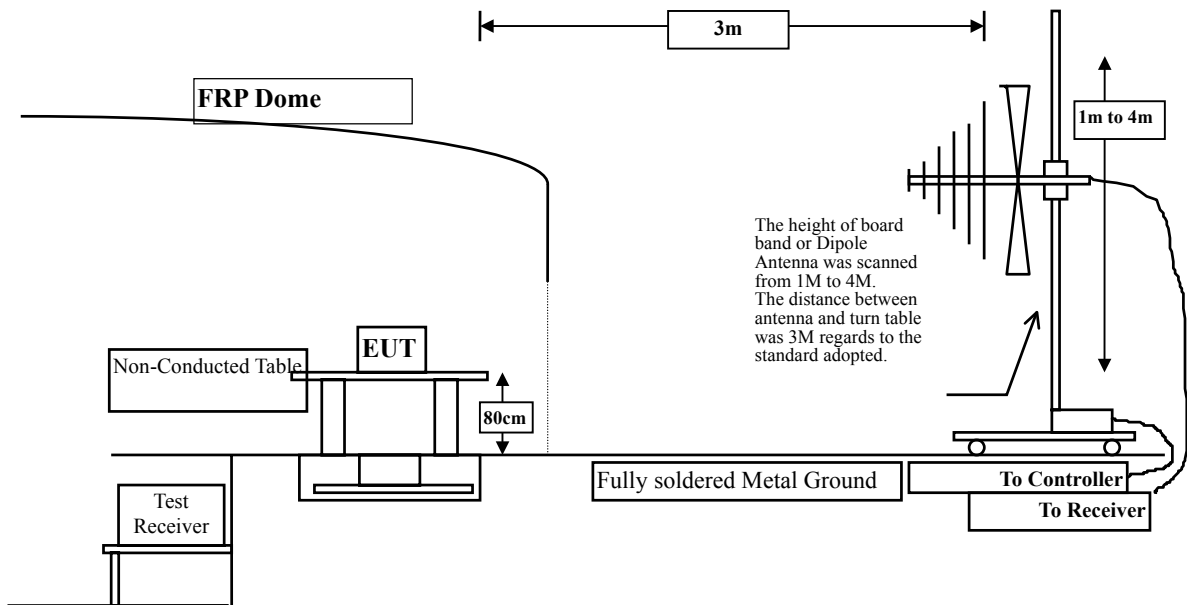
The following test equipment are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2007
	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2007
	Pre-Amplifier	HP	8447D/3307A01812	May, 2007
	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2006
	Horn Antenna	EM	EM6917 / 103325	May, 2007
Site # 2	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2007
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2007
	Pre-Amplifier	HP	8447D/3307A01814	May, 2007
	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
	Horn Antenna	EM	EM6917 / 103325	May, 2007
Site # 3	X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
	X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007
	X Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
	X Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
	X Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
	X Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
	X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
	X Pre-Amplifier	HP	8449B / 3008A01123	July, 2007

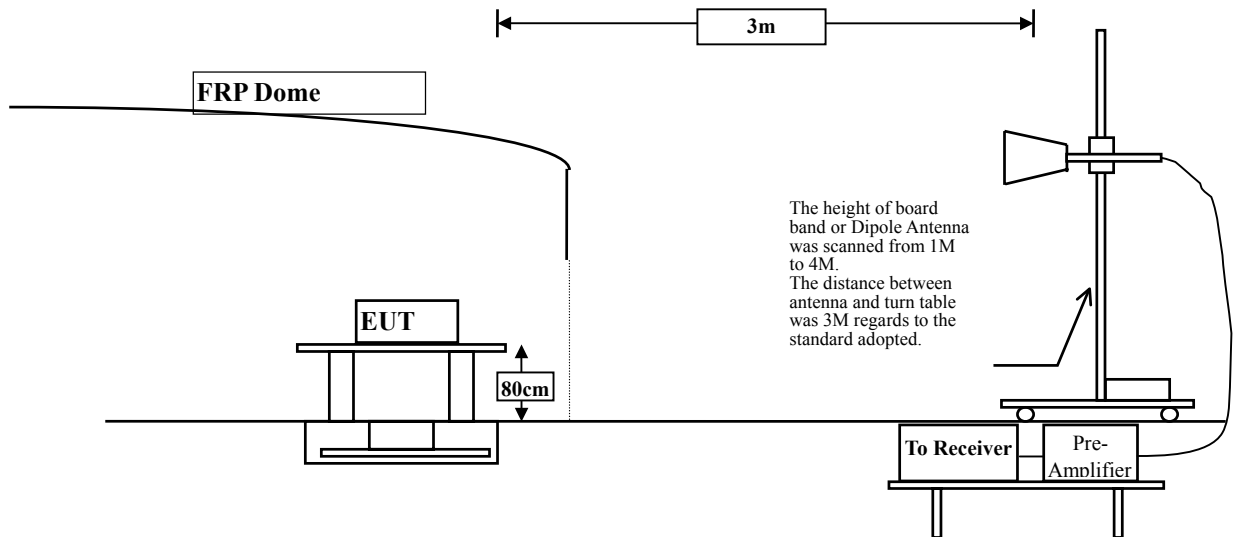
- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

4.2. Test Setup

Below 1GHz



Above 1GHz



4.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The frequency range from 30MHz to 10th harmonics is checked.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product : Multi-Service Wireless Gateway
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	2.927	49.140	52.067	-21.933	74.000
7236.000	9.472	38.600	48.072	-25.928	74.000
9648.000	10.512	38.660	49.172	-24.828	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	2.927	49.840	52.767	-21.233	74.000
7236.000	9.472	38.440	47.912	-26.088	74.000
9648.000	10.512	41.690	52.202	-21.798	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Multi-Service Wireless Gateway
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level	dB	dBuV/m
	dB	dBuV	dBuV/m		

Horizontal

Peak Detector:

4874.000	3.037	46.010	49.047	-24.953	74.000
7311.000	9.557	41.310	50.868	-23.132	74.000
9748.000	10.600	39.600	50.200	-23.800	74.000

Average

Detector:

--

Vertical

Peak Detector:

4874.000	3.037	49.700	52.737	-21.263	74.000
7311.000	9.557	41.200	50.758	-23.242	74.000
9748.000	10.600	39.400	50.000	-24.000	74.000

Average

Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz ◦
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz ◦
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Multi-Service Wireless Gateway
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level	dB	dBuV/m
	dB	dBuV	dBuV/m		
Horizontal					
Peak Detector:					
4924.000	3.154	49.600	52.754	-21.246	74.000
7386.000	9.627	39.680	49.307	-24.693	74.000
9848.000	10.686	38.560	49.246	-24.754	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4924.000	3.154	49.430	52.584	-21.416	74.000
7386.000	9.627	40.300	49.927	-24.073	74.000
9848.000	10.686	38.600	49.286	-24.714	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz ◦
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz ◦
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Multi-Service Wireless Gateway
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	2.927	41.500	44.427	-29.573	74.000
7236.000	9.472	34.960	44.432	-29.568	74.000
9648.000	10.512	38.110	48.622	-25.378	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	2.927	45.360	48.287	-25.713	74.000
7236.000	9.472	37.640	47.112	-26.888	74.000
9648.000	10.512	38.000	48.512	-25.488	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Multi-Service Wireless Gateway
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.037	45.740	48.777	-25.223	74.000
7311.000	9.557	36.720	46.278	-27.722	74.000
9748.000	10.600	35.250	45.850	-28.150	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	3.037	46.390	49.427	-24.573	74.000
7311.000	9.557	37.150	46.708	-27.292	74.000
9748.000	10.600	32.210	42.810	-31.190	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Multi-Service Wireless Gateway
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	3.154	45.430	48.584	-25.416	74.000
7386.000	9.627	32.150	41.777	-32.223	74.000
9848.000	10.686	29.800	40.486	-33.514	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	3.154	48.370	51.524	-22.476	74.000
7386.000	9.627	33.660	43.287	-30.713	74.000
9848.000	10.686	31.200	41.886	-32.114	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz ◦
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz ◦
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Multi-Service Wireless Gateway
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
499.480	18.228	13.491	31.719	-14.281	46.000
565.440	19.135	14.866	34.001	-11.999	46.000
668.260	20.615	15.906	36.521	-9.479	46.000
745.860	20.804	11.441	32.245	-13.755	46.000
800.180	21.764	8.301	30.065	-15.935	46.000
901.060	22.050	14.214	36.264	-9.736	46.000
Vertical					
425.700	19.568	10.754	30.322	-15.678	46.000
499.480	18.429	12.693	31.122	-14.878	46.000
567.380	21.294	13.919	35.213	-10.787	46.000
701.240	20.774	13.703	34.477	-11.523	46.000
831.200	21.447	7.432	28.879	-17.121	46.000
935.000	24.159	8.294	32.453	-13.547	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

Product : Multi-Service Wireless Gateway
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
425.760	17.767	15.685	33.452	-12.548	46.000
532.460	18.666	12.738	31.404	-14.596	46.000
600.360	20.052	13.963	34.015	-11.985	46.000
699.300	20.753	12.903	33.656	-12.344	46.000
767.200	22.117	9.602	31.719	-14.281	46.000
921.200	22.975	13.290	36.265	-9.735	46.000
Vertical					
450.980	18.907	10.590	29.497	-16.503	46.000
528.000	18.934	12.765	31.699	-14.301	46.000
666.320	19.977	15.685	35.662	-10.338	46.000
753.620	23.002	13.887	36.889	-9.111	46.000
850.000	21.568	7.311	28.879	-17.121	46.000
912.000	24.018	8.435	32.453	-13.547	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “█” means the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

5. Band Edge

5.1. Test Equipment

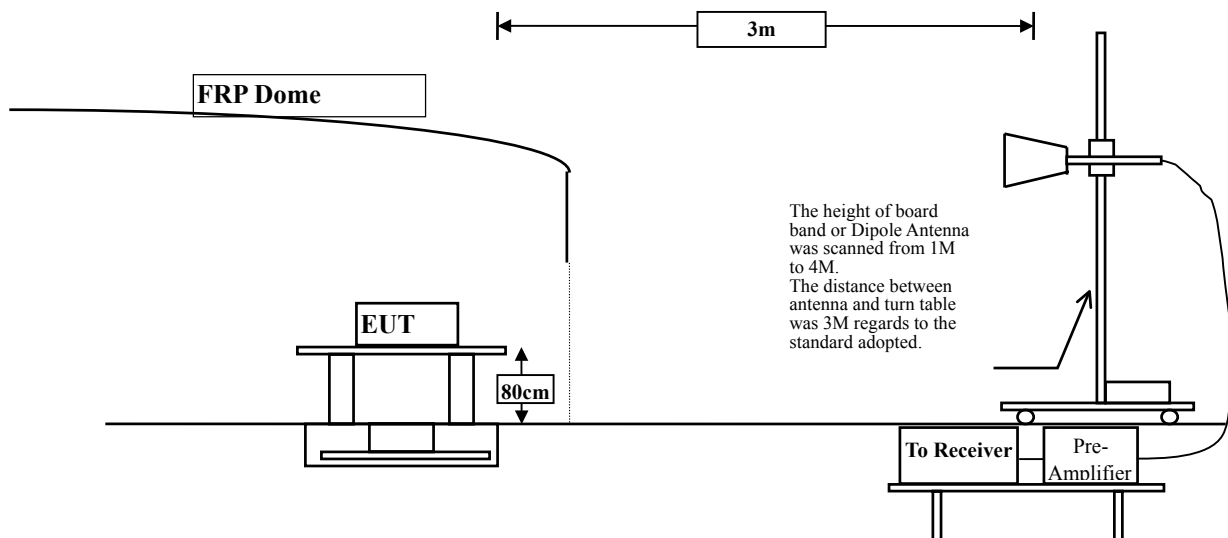
The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007
X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
X	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
X	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
X	Pre-Amplifier	HP	8449B / 3008A01123	July, 2007

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

5.2. Test Setup

RF Radiated Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at

least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

5.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

5.6. Test Result of Band Edge

Product : Multi-Service Wireless Gateway
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

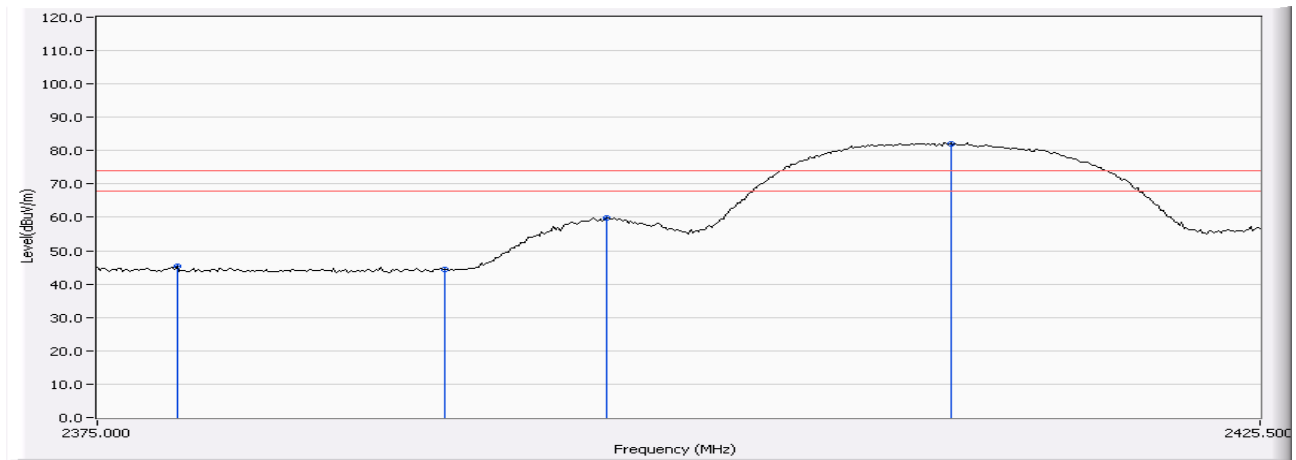
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2378.434	-1.443	46.934	45.490	74.00	54.00	Pass
1 (Peak)	2390.000	-1.407	45.805	44.398	74.00	54.00	Pass
1 (Peak)	2397.018	-1.373	61.179	59.805	74.00	54.00	Pass
1 (Peak)	2412.000	-1.314	83.407	82.093	74.00	54.00	Pass

Figure Channel 1: Horizontal (Peak)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Product : Multi-Service Wireless Gateway
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

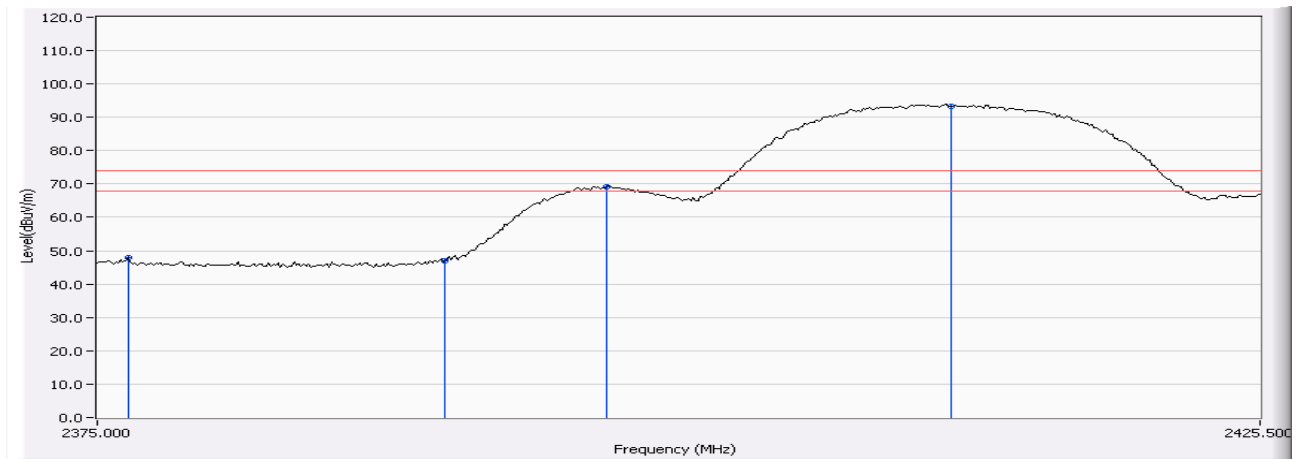
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Vertical)	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel	Frequency (MHz)	Correct Fcator (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2376.313	-1.456	49.492	48.035	74.00	54.00	Pass
1 (Peak)	2390.000	-1.407	48.386	46.979	74.00	54.00	Pass
1 (Peak)	2397.018	-1.373	70.658	69.284	74.00	54.00	Pass
1 (Peak)	2412.000	-1.314	94.639	93.325	74.00	54.00	Pass

Figure Channel 1: Vertical (Peak)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Product : Multi-Service Wireless Gateway
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

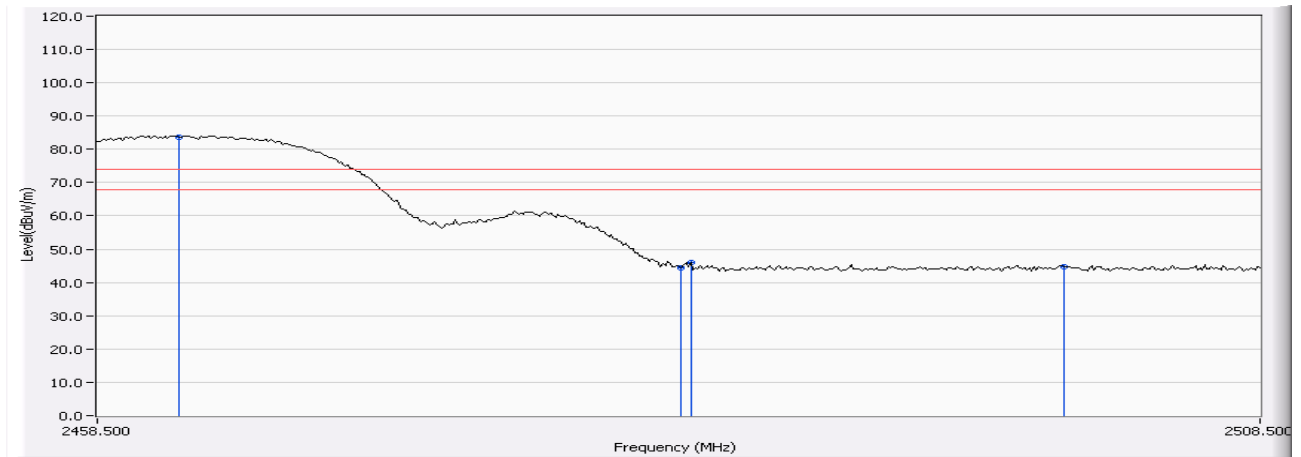
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2462.000	-1.118	84.660	83.542	74.00	54.00	Pass
11(Peak)	2483.500	-1.037	45.534	44.497	74.00	54.00	Pass
11(Peak)	2483.900	-1.036	47.081	46.045	74.00	54.00	Pass
11(Peak)	2500.000	-0.988	45.582	44.594	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms

Product : Multi-Service Wireless Gateway
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

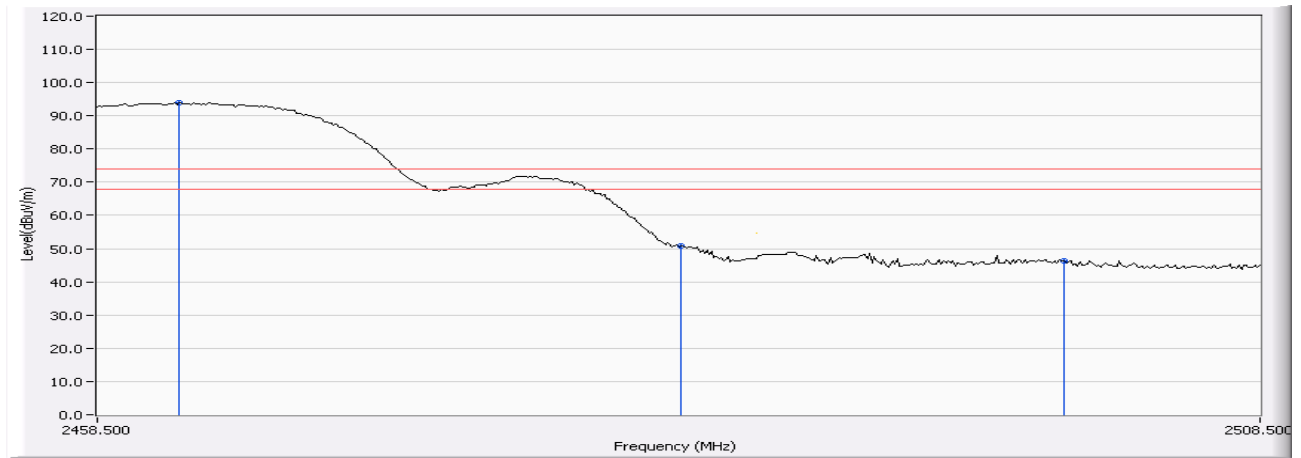
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Vertical)	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2462.000	-1.118	94.908	93.790	74.00	54.00	Pass
11(Peak)	2483.500	-1.037	51.721	50.684	74.00	54.00	Pass
11(Peak)	2500.000	-0.988	47.251	46.263	74.00	54.00	Pass

Figure Channel 11: (Vertical) (Peak)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Product : Multi-Service Wireless Gateway
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g

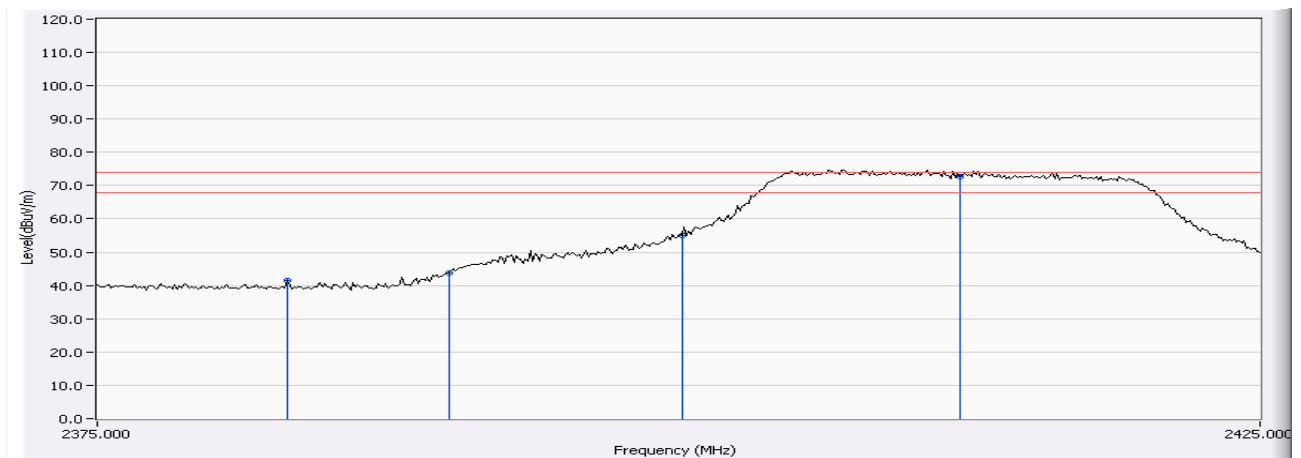
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2383.100	-1.428	42.927	41.499	74.00	54.00	Pass
1 (Peak)	2390.000	-1.407	45.094	43.687	74.00	54.00	Pass
1 (Peak)	2400.000	-1.363	53.254	51.891	74.00	54.00	Pass
1 (Peak)	2412.000	-1.314	74.045	72.731	74.00	54.00	Pass

Figure Channel 1: Horizontal (Peak)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Product : Multi-Service Wireless Gateway
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g

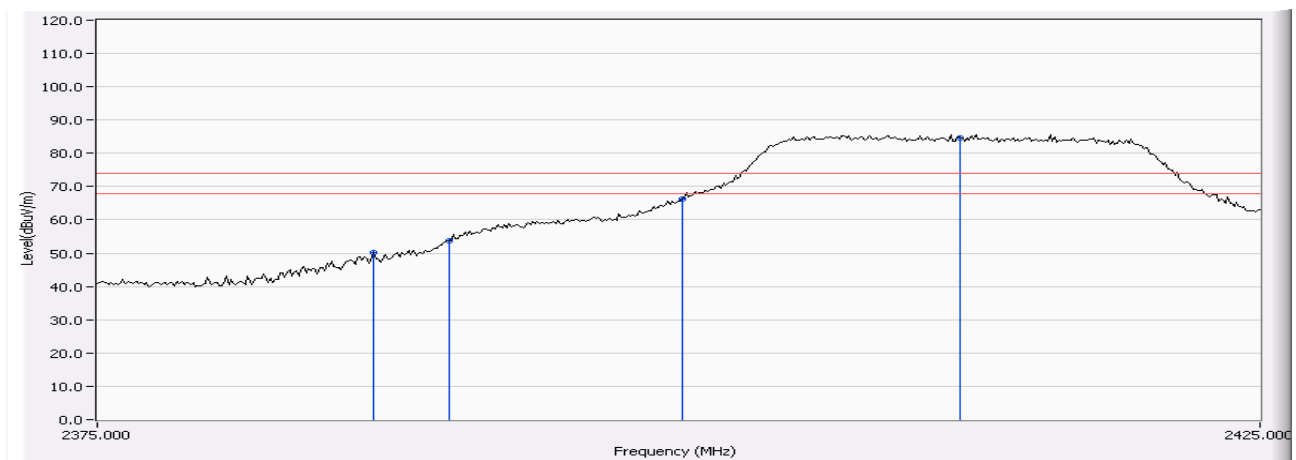
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Vertical)	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel	Frequency (MHz)	Correct Fcator (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
1 (Peak)	2386.800	-1.417	51.667	50.250	74.00	54.00	Pass
1 (Peak)	2390.000	-1.407	54.994	53.587	74.00	54.00	Pass
1 (Peak)	2400.000	-1.363	65.564	64.201	74.00	54.00	Pass
1 (Peak)	2412.000	-1.314	85.850	84.536	74.00	54.00	Pass

Figure Channel 1: Vertical (Peak)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Product : Multi-Service Wireless Gateway
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g

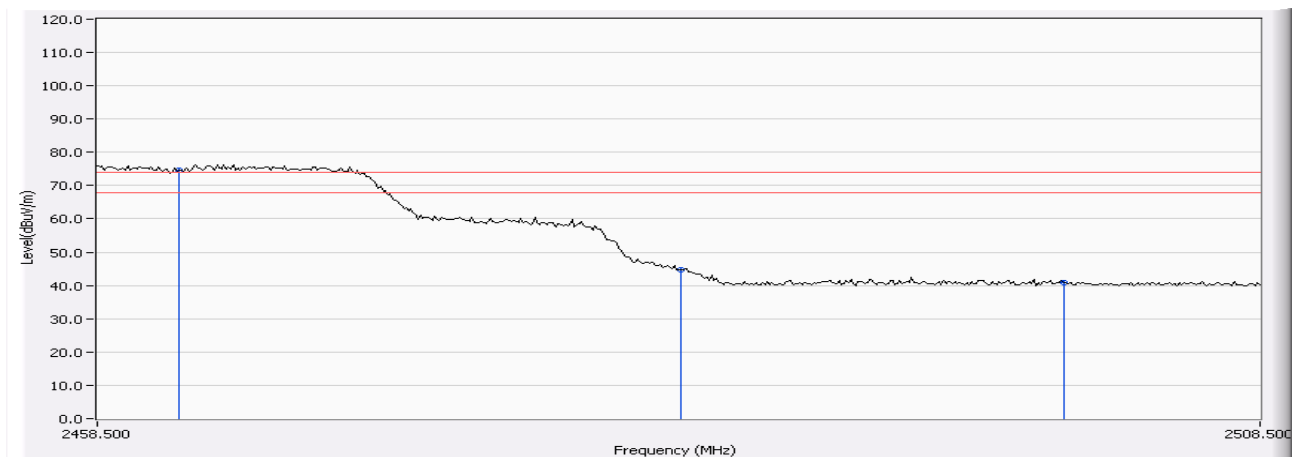
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2462.000	-1.118	75.845	74.727	74.00	54.00	Pass
11(Peak)	2483.500	-1.037	45.875	44.838	74.00	54.00	Pass
11(Peak)	2500.000	-0.988	41.773	40.785	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms

Product : Multi-Service Wireless Gateway
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g

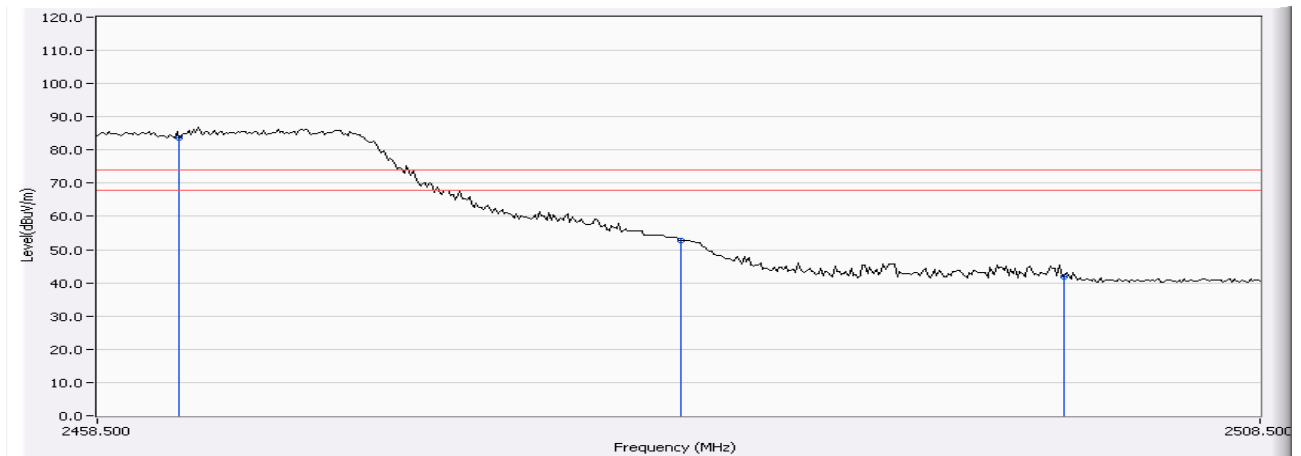
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Vertical)	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2462.000	-1.118	84.895	83.777	74.00	54.00	Pass
11(Peak)	2483.500	-1.037	53.877	52.840	74.00	54.00	Pass
11(Peak)	2500.000	-0.988	42.825	41.837	74.00	54.00	Pass

Figure Channel 11: (Vertical) (Peak)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

6. Occupied Bandwidth

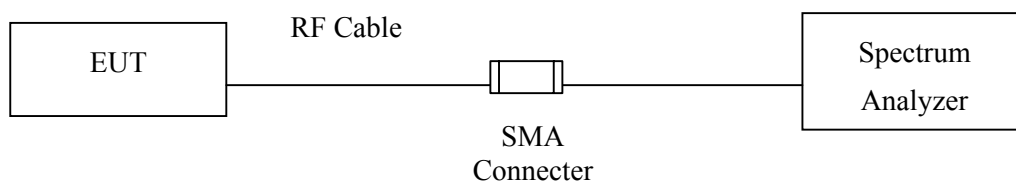
6.1. Test Equipment

The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by “X” are used to measure the final test results.

6.2. Test Setup



6.3. Limits

The minimum bandwidth shall be at least 500kHz.

6.4. Uncertainty

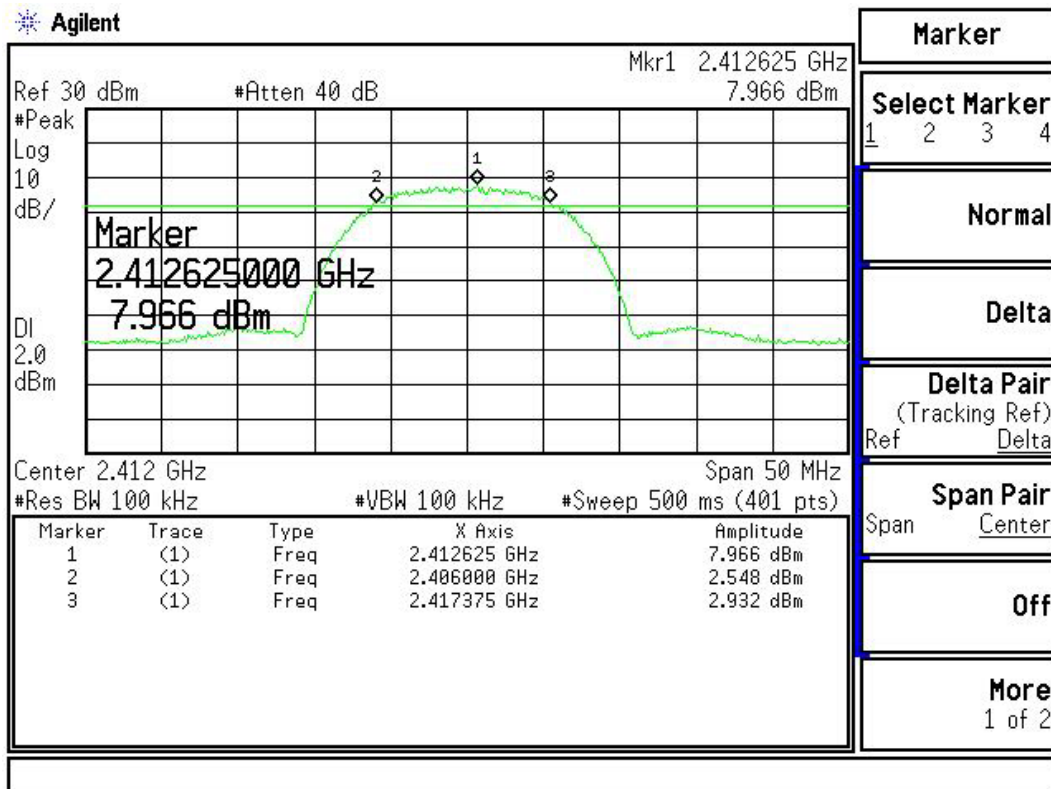
± 150Hz

6.5. Test Result of Occupied Bandwidth

Product : Multi-Service Wireless Gateway
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (1Mbps)	2412.00	11375	>500	Pass

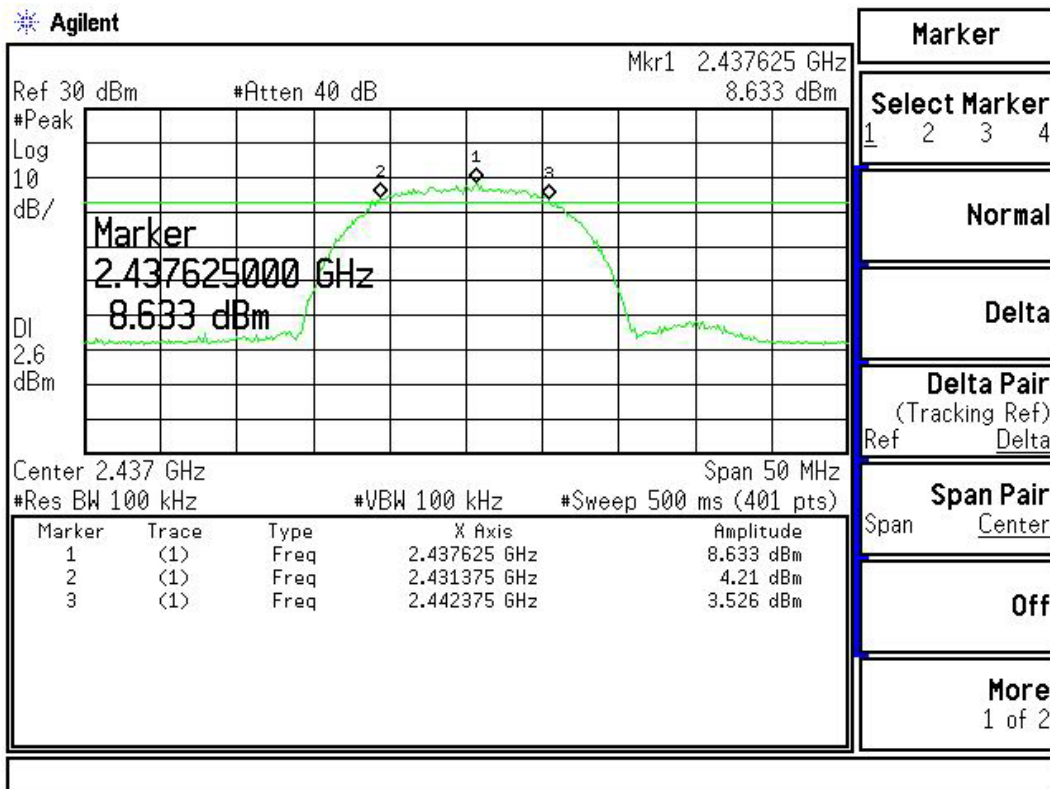
Figure Channel 1:



Product : Multi-Service Wireless Gateway
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (1Mbps)	2437.00	11000	>500	Pass

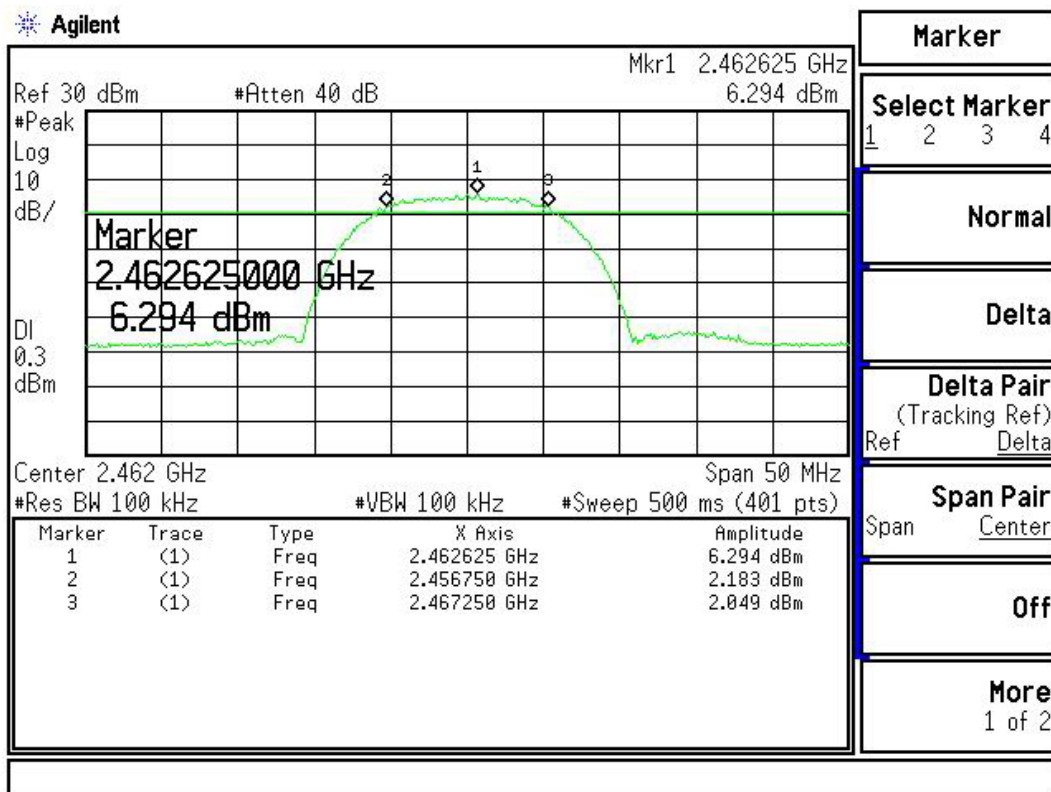
Figure Channel 6:



Product : Multi-Service Wireless Gateway
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (1Mbps)	2462.00	10500	>500	Pass

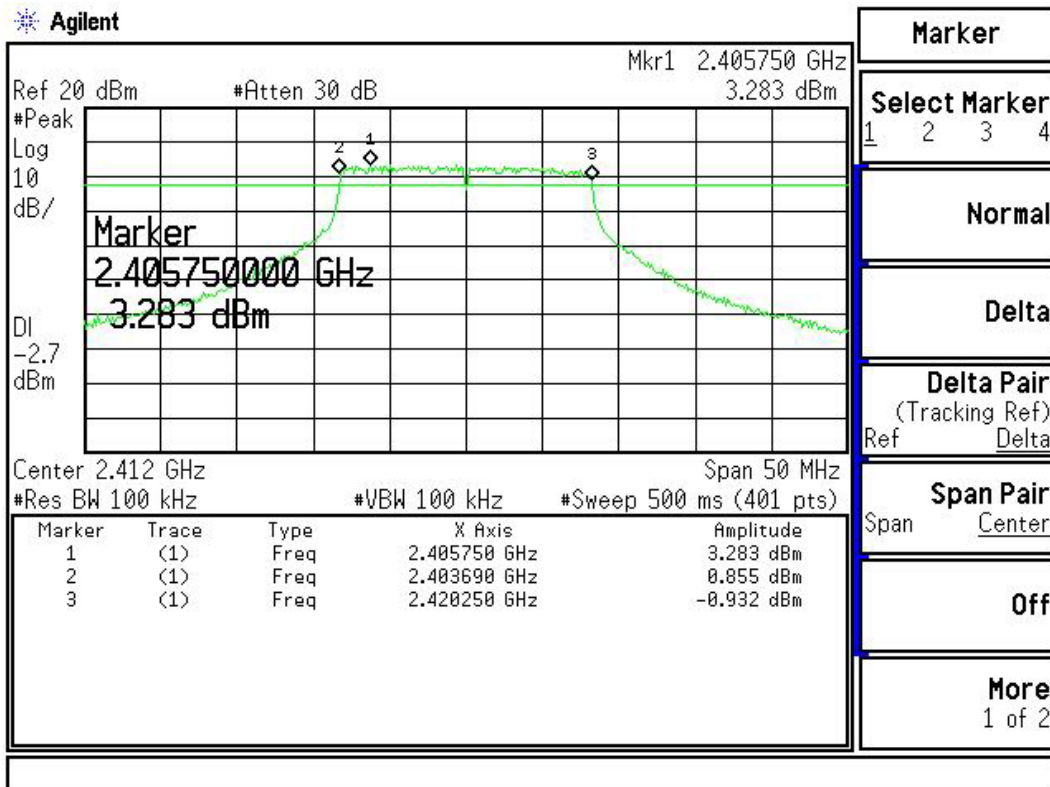
Figure Channel 11:



Product : Multi-Service Wireless Gateway
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (6Mbps)	2412.00	16560	>500	Pass

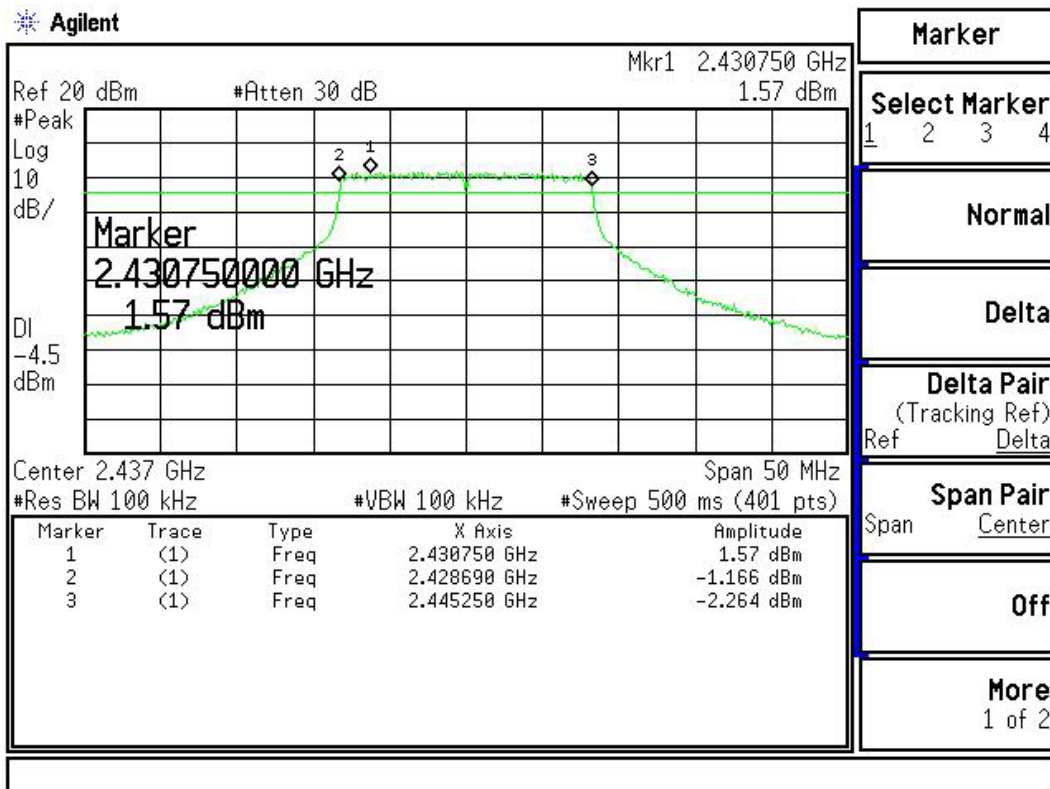
Figure Channel 1:



Product : Multi-Service Wireless Gateway
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (6Mbps)	2437.00	16560	>500	Pass

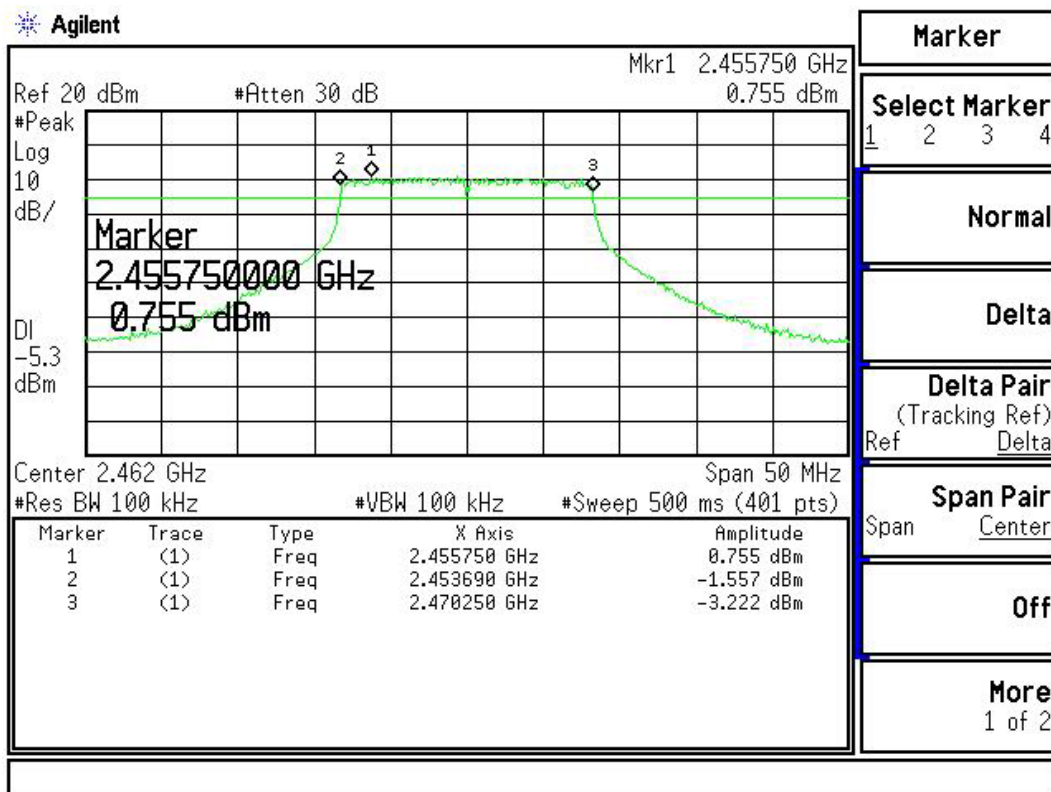
Figure Channel 6:



Product : Multi-Service Wireless Gateway
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (6Mbps)	2462.00	16560	>500	Pass

Figure Channel 11:



7. Power Density

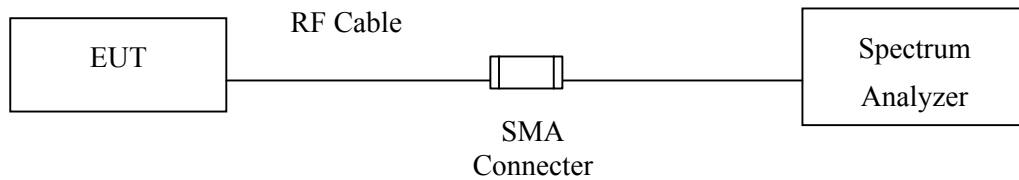
7.1. Test Equipment

The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

- Note:
1. All equipments are calibrated every one year.
 2. The test instruments marked by “X” are used to measure the final test results.

7.2. Test Setup



7.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

7.4. Uncertainty

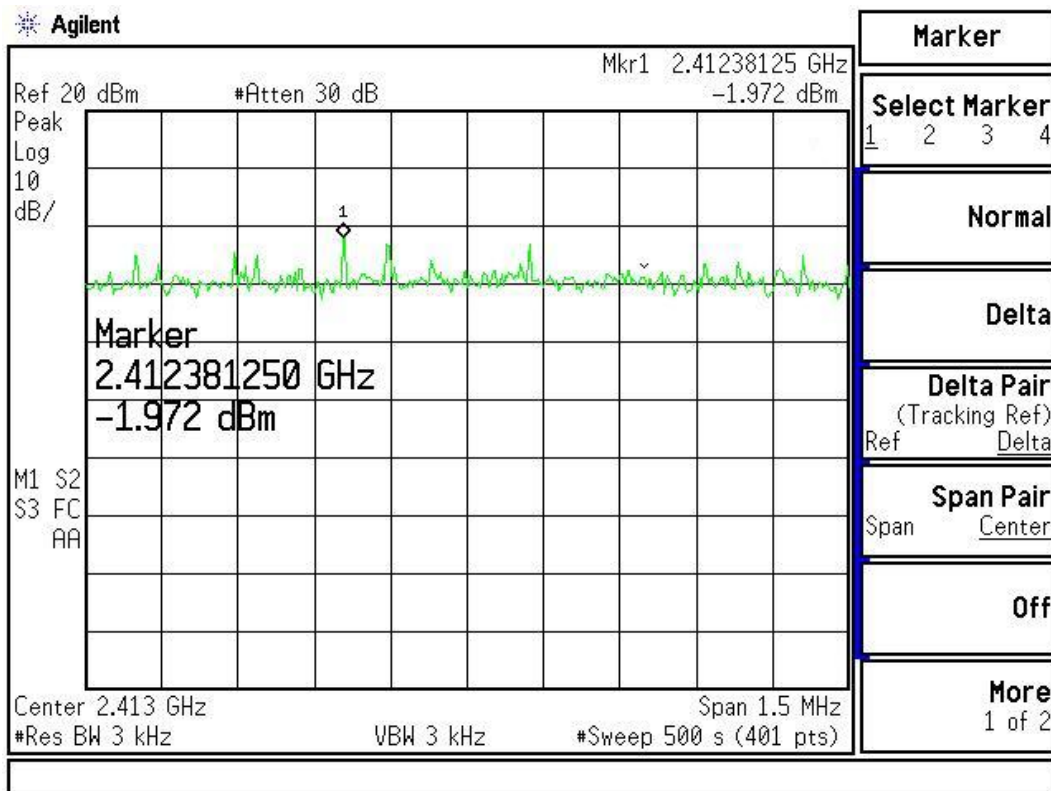
± 1.27 dB

7.5. Test Result of Power Density

Product : Multi-Service Wireless Gateway
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (1Mbps)	2412.00	-1.972	< 8dBm	Pass

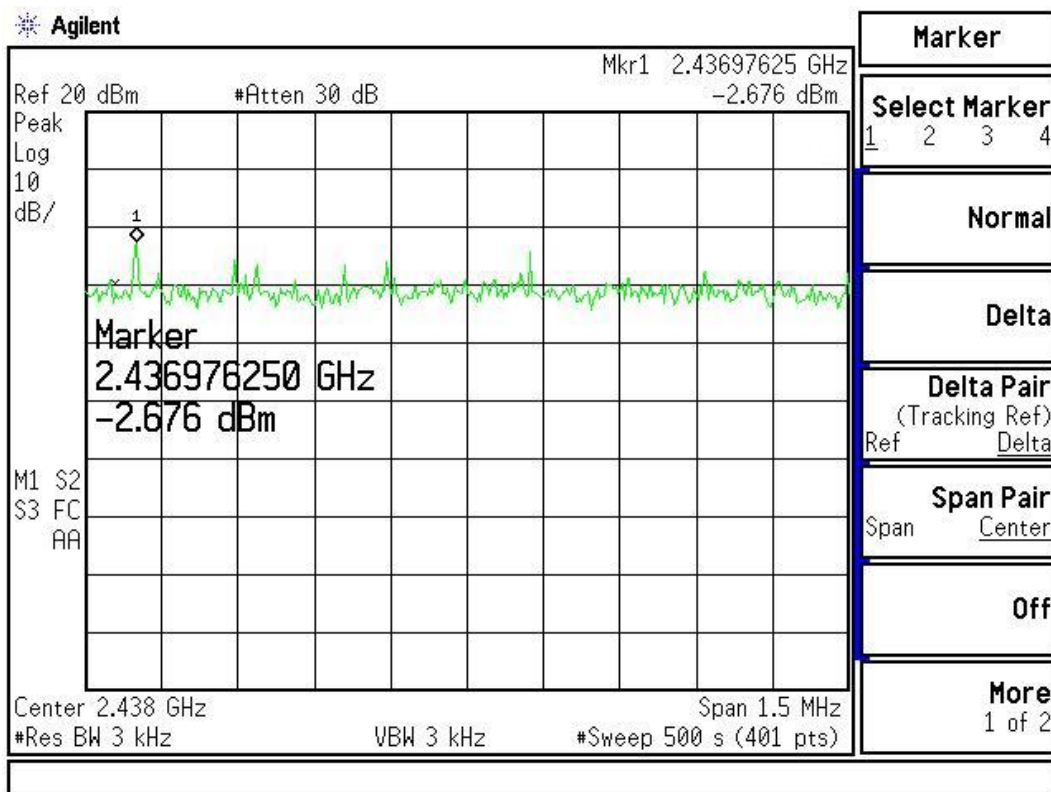
Figure Channel 1: 11Mbps



Product : Multi-Service Wireless Gateway
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (1Mbps)	2437.000	-2.676	< 8dBm	Pass

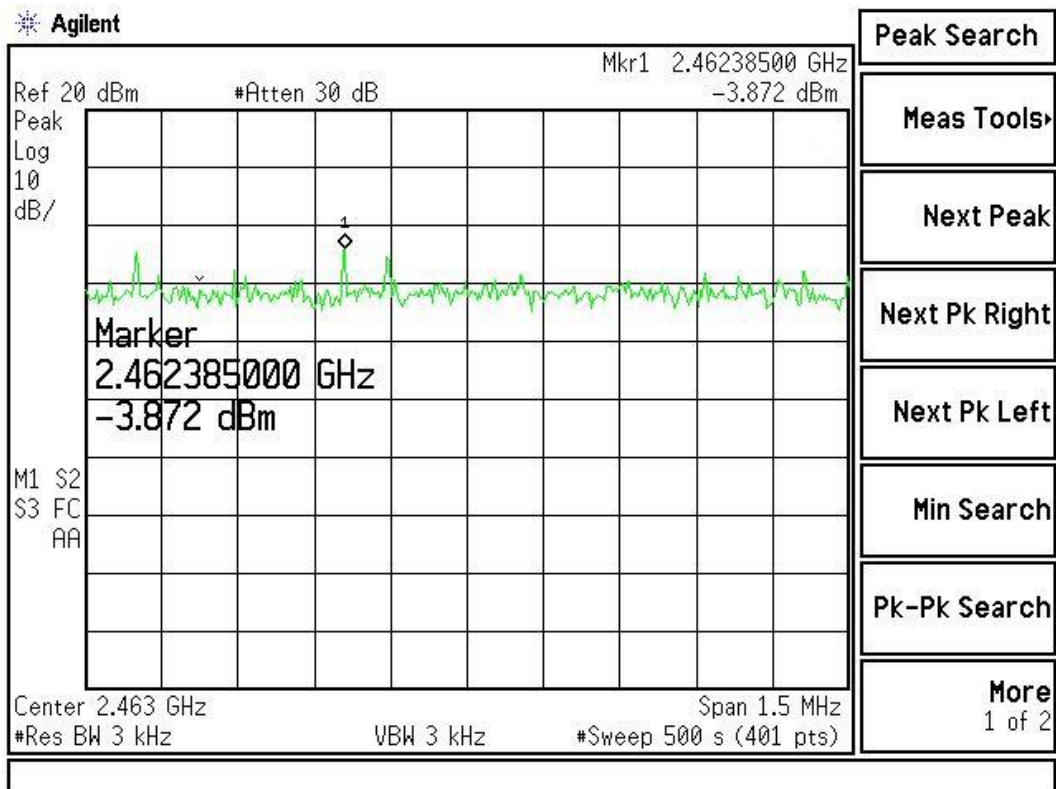
Figure Channel 6: 11Mbps



Product : Multi-Service Wireless Gateway
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (1Mbps)	2462.00	-3.872	< 8dBm	Pass

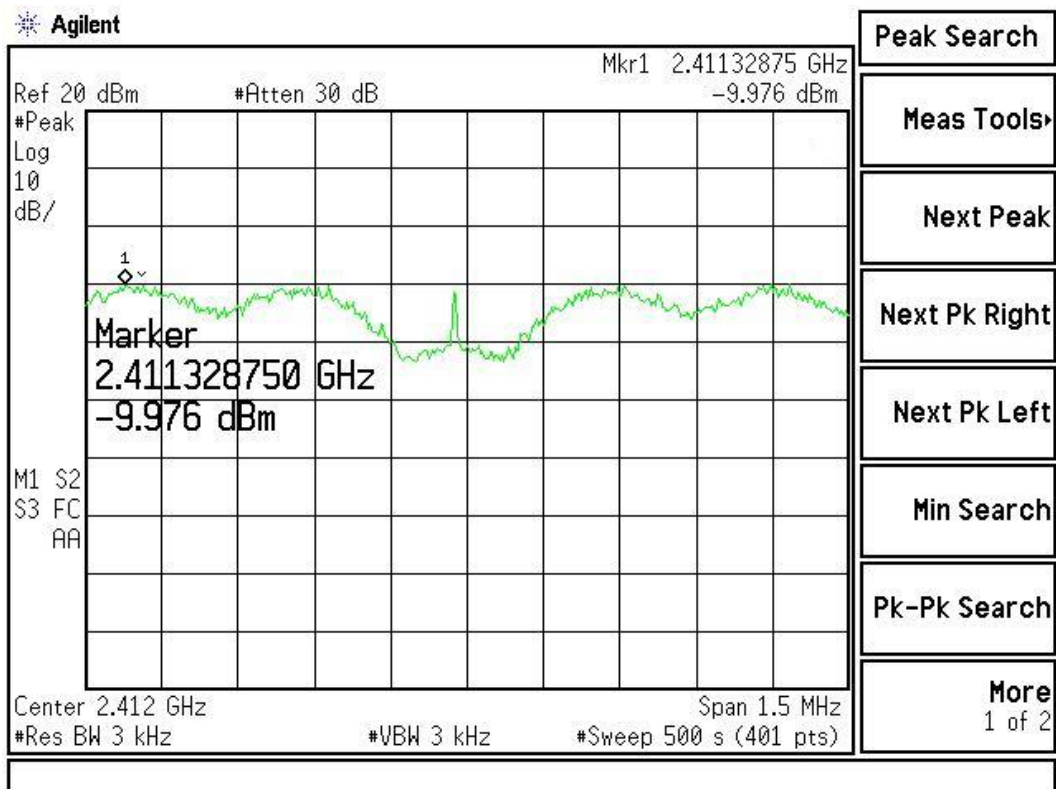
Figure Channel 11: 11Mbps



Product : Multi-Service Wireless Gateway
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (6Mbps)	2412.00	-9.976	< 8dBm	Pass

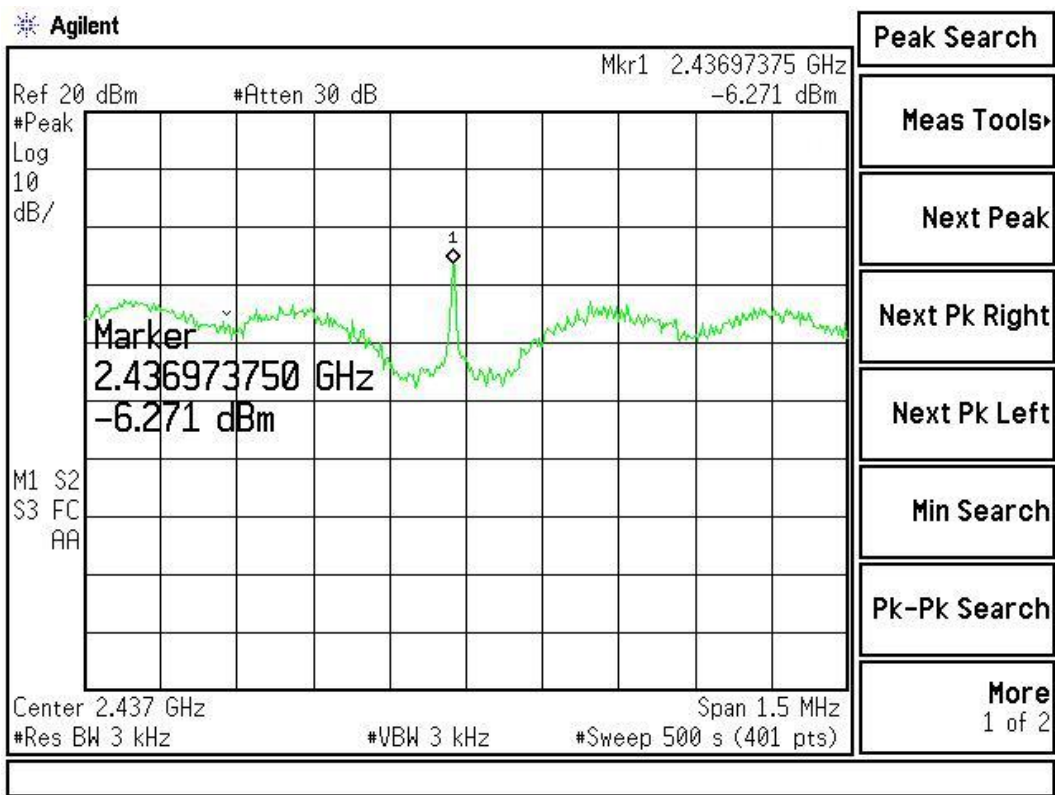
Figure Channel 1:



Product : Multi-Service Wireless Gateway
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 2: Transmitter 802.11g (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (6Mbps)	2437.000	-6.271	< 8dBm	Pass

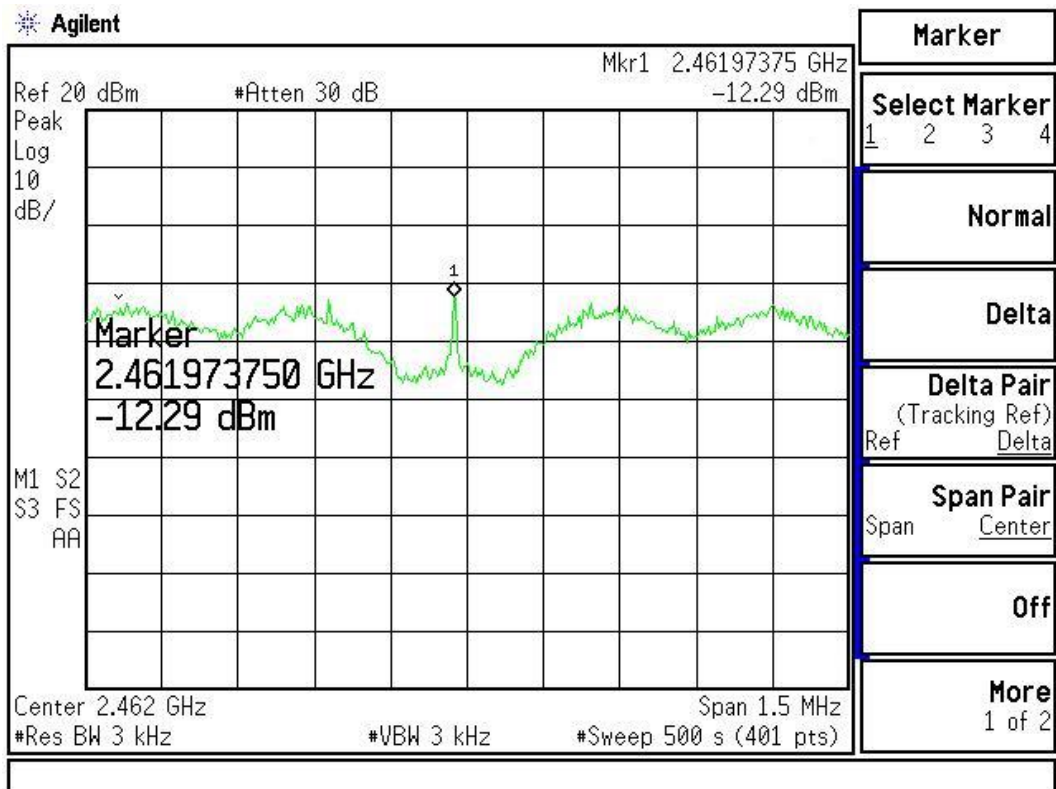
Figure Channel 6:



Product : Multi-Service Wireless Gateway
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (6Mbps)	2462.00	-12.29	< 8dBm	Pass

Figure Channel 11:



8. EMI Reduction Method During Compliance Testing

No modification was made during testing.