Test Report

Product Name : Wireless 11g PCI Mini Card

Model No. : MS-6834B

FCC ID : I4L-MS6834B

Applicant : MICRO-STAR INT'L CO., LTD

Address : No. 69, Li-De St., Jung-He City, Taipei Hsien 235, Taiwan

Date of Receipt : Oct. 27, 2005

Issued Date : Nov. 04, 2005

Report No. : 05BL014FI

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 : Nov. 04, 2005
Report No. : 05BL014FI

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

Product Name	:	Wireless 11g PCI Mini Card
Applicant	:	MICRO-STAR INT'L CO., LTD
Address	:	No. 69, Li-De St., Jung-He City, Taipei Hsien 235, Taiwan
Manufacturer	:	MICRO-STAR INT'L CO., LTD
Model No.	:	MS-6834B
Rated Voltage	:	AC 120V/60Hz
Working Voltage	:	DC 3V (Powered by PC)
Trade Name	:	MSI
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2005
		ANSI C63.4: 2003
Test Result	:	Complied

NVLAP Lab Code: 200533-0

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(Tim Sung)

Approved By : Gene chang
(Gene Chang)

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Attachment 1: EUT Test Photographs
Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	:	Wireless 11g PCI Mini Card
Trade Name	:	MSI
Model No.	:	MS-6834B
FCC ID	:	I4L-MS6834B
Frequency Range	:	2412MHz - 2462MHz
Channel Number	:	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	:	Connector
Antenna Gain	:	Refer to the table “Antenna List”
Channel Control	:	Auto

Antenna List

No.	Manufacturer	Model No.	Part No.	Peak Gain
1	SmartAnt	MSI-05005G-A5	S79-2900070-SB1	2.71 dBi
2	Input Output Precise Corp.	W125-060-D800	S79-2900020-I21	1.15 dBi
3	ACON	ADM3S-300005	S79-2900030-A66	1.83 dBi

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 Wireless 11g PCI Mini Card including a 2.4GHz transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency at the highest data rate are selected to perform the test.
3. These tests are conducted on a sample for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.

1.2. Operational Description

The EUT is a Wireless 11g PCI Mini Card with 11 channels. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps. The device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b) or eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps. The device of RF carrier is OFDM (IEEE 802.11g).

The device adapts direct sequence spread spectrum modulation. The antenna was Connector provides diversity function to improve the receiving function.

This Wireless 11g PCI Mini Card, compliant with IEEE 802.11b and IEEE 802.11g, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direst Sequence Spread Spectrum (DSSS) radio transmission, the Wireless 11g PCI Mini Card Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g network.

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

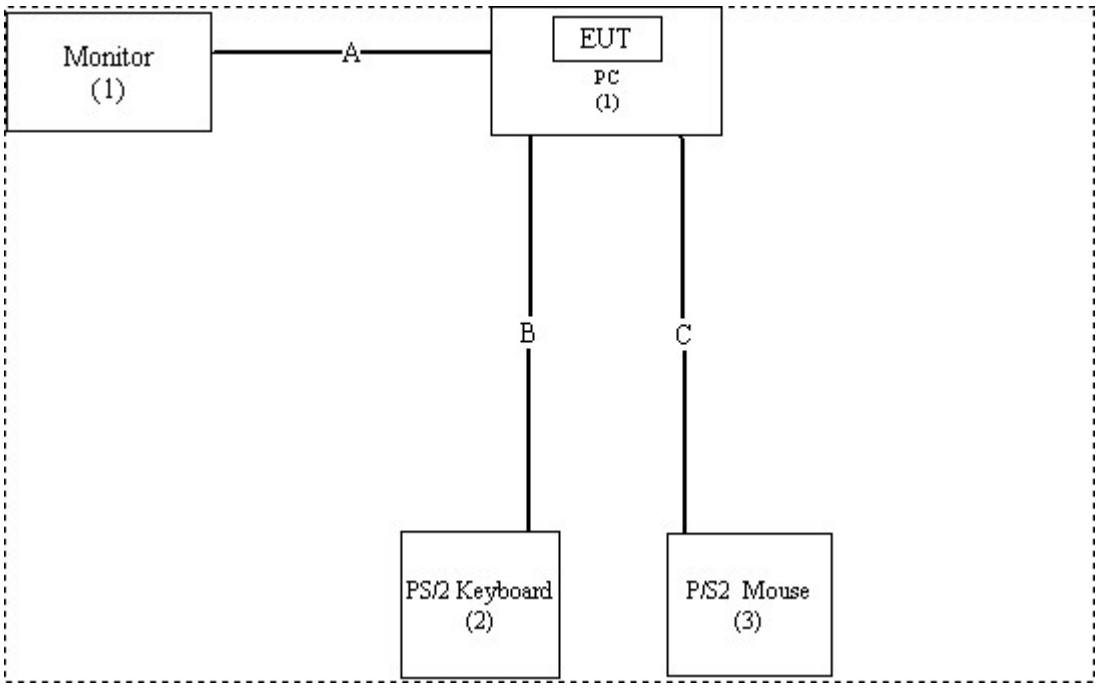
1.3. Tested System Datails

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.	Power Cord
1	LCD Monitor	CMV	CT-730D	FNC122F57CA1067	Non-Shielded, 1.8m
2	Keyboard	COMPAQ	KB-0133	B55940MGAPK00K	N/A
3	Mouse	HP	M-S69	N/A	N/A
4	PC	IBM	2187-16W	BNL676Z	Non-Shielded, 1.8m

	Signal Cable Type	Signal cable Description
A.	D-SUB Cable	Shielded 1.8m with two ferrite cores bonded
B.	PS/2 Keyboard Cable	Shielded 1.5m
C.	PS/2 Mouse Cable	Shielded 1.5m

1.4. Configuration of Test System



1.5. EUT Exercise Software

(1) Setup the EUT and simulators as shown on 1.4

(2) Turn on the power of all equipment.

(3) Notebook PC reads data from disk.

(4) Data will be transmitting and receiving through EUT.

(5) The transmitted and receive status will be shown on the monitor.

(6) Repeat the above procedure (3) to (5)

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: June 22, 2001 File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2

July 03, 2001 Accreditation on NVLAP
NVLAP Lab Code: 200533-0

0914

Site Name: Quietek Corporation

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Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
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E-Mail : service@quietek.com

NVLAP Lab Code: 200533-0

2. Conducted Emission

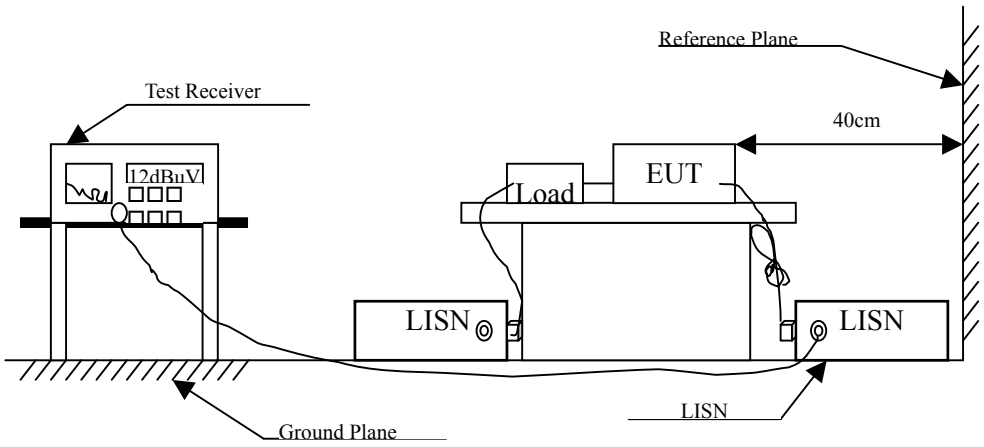
2.1. Test Equipment

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, 2005	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2005	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2005	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2005	
5	No.1 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	uV	dBuV
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 of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

2.6. Test Result of Conducted Emission

Product : Wireless 11g PCI Mini Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
*0.185	0.202	45.110	45.312	-19.688	65.000
0.466	0.206	34.870	35.076	-21.895	56.971
0.560	0.207	34.440	34.647	-21.353	56.000
1.400	0.218	32.770	32.988	-23.012	56.000
1.775	0.223	31.720	31.943	-24.057	56.000
2.240	0.230	31.290	31.520	-24.480	56.000
Average					
*0.185	0.202	45.100	45.302	-9.698	55.000
0.466	0.206	34.860	35.066	-11.905	46.971
0.560	0.207	34.430	34.637	-11.363	46.000
1.400	0.218	32.760	32.978	-13.022	46.000
1.775	0.223	31.710	31.933	-14.067	46.000
2.240	0.230	31.280	31.510	-14.490	46.000

Note:

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

Product : Wireless 11g PCI Mini Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
*0.185	0.202	45.130	45.332	-19.668	65.000
0.466	0.206	34.910	35.116	-21.855	56.971
0.560	0.207	34.500	34.707	-21.293	56.000
1.494	0.220	32.980	33.200	-22.800	56.000
1.865	0.224	32.270	32.494	-23.506	56.000
2.705	0.236	31.730	31.966	-24.034	56.000
Average					
*0.185	0.202	45.120	45.322	-9.678	55.000
0.466	0.206	34.900	35.106	-11.865	46.971
0.560	0.207	34.490	34.697	-11.303	46.000
1.494	0.220	32.970	33.190	-12.810	46.000
1.865	0.224	32.260	32.484	-13.516	46.000
2.705	0.236	31.720	31.956	-14.044	46.000

Note:

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

Product : Wireless 11g PCI Mini Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 2: Transmitter 802.11g (2437MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
*0.185	0.202	42.940	43.142	-21.858	65.000
0.279	0.203	36.510	36.713	-25.601	62.314
0.466	0.206	33.870	34.076	-22.895	56.971
0.748	0.210	33.140	33.350	-22.650	56.000
1.119	0.214	31.690	31.904	-24.096	56.000
2.052	0.227	30.340	30.567	-25.433	56.000
Average					
*0.185	0.202	42.930	43.132	-11.868	55.000
0.279	0.203	36.500	36.703	-15.611	52.314
0.466	0.206	33.860	34.066	-12.905	46.971
0.748	0.210	32.540	32.750	-13.250	46.000
1.119	0.214	31.680	31.894	-14.106	46.000
2.052	0.227	30.330	30.557	-15.443	46.000

Note:

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

Product : Wireless 11g PCI Mini Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 2: Transmitter 802.11g (2437MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
*0.185	0.202	42.940	43.142	-21.858	65.000
0.279	0.203	36.470	36.673	-25.641	62.314
0.466	0.206	33.850	34.056	-22.915	56.971
0.748	0.210	33.160	33.370	-22.630	56.000
1.119	0.214	31.710	31.924	-24.076	56.000
2.052	0.227	30.420	30.647	-25.353	56.000
Average					
*0.185	0.202	42.930	43.132	-11.868	55.000
0.279	0.203	36.460	36.663	-15.651	52.314
0.466	0.206	33.840	34.046	-12.925	46.971
0.748	0.210	32.540	32.750	-13.250	46.000
1.119	0.214	31.700	31.914	-14.086	46.000
2.052	0.227	30.410	30.637	-15.363	46.000

Note:

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

3. Peak Power Output

3.1. Test Equipment

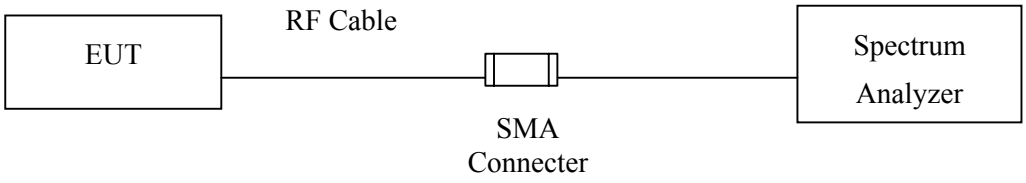
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2005

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

3.2. Test Setup

Conduction Power Measurement



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

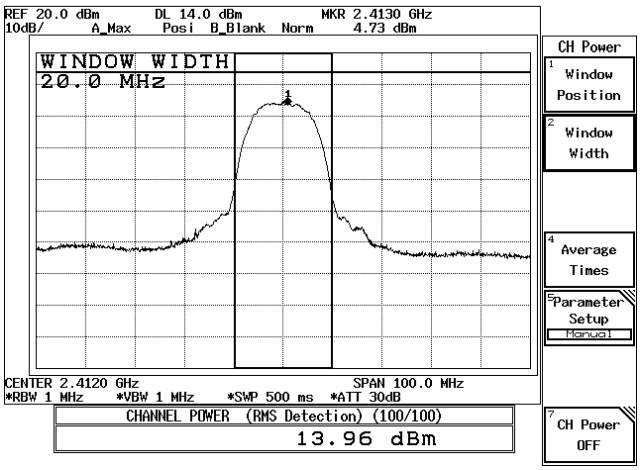
3.5. Test Result of Peak Power Output

Product : Wireless 11g PCI Mini Card
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b

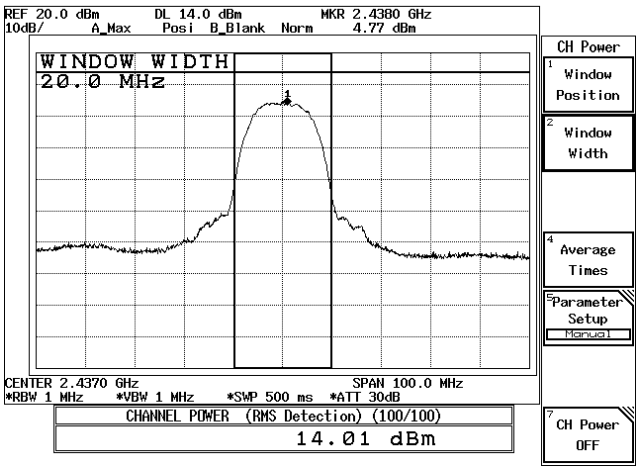
Data Speed: 11Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	13.96dBm	1Watt= 30 dBm	Pass
6	2437.00	14.01dBm	1Watt= 30 dBm	Pass
11	2462.00	13.44dBm	1Watt= 30 dBm	Pass

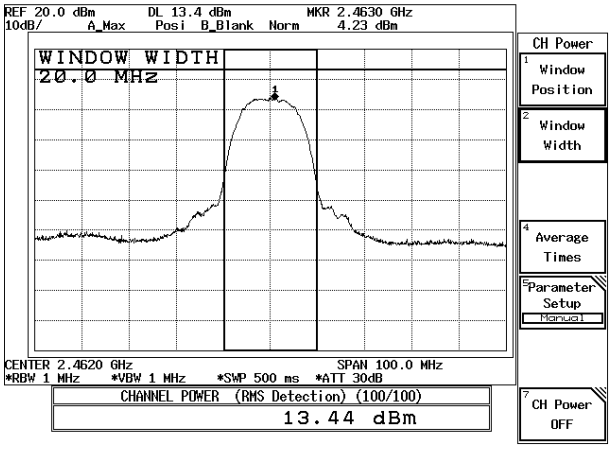
11Mbps-CH01



11Mbps-CH 06



11Mbps-CH11

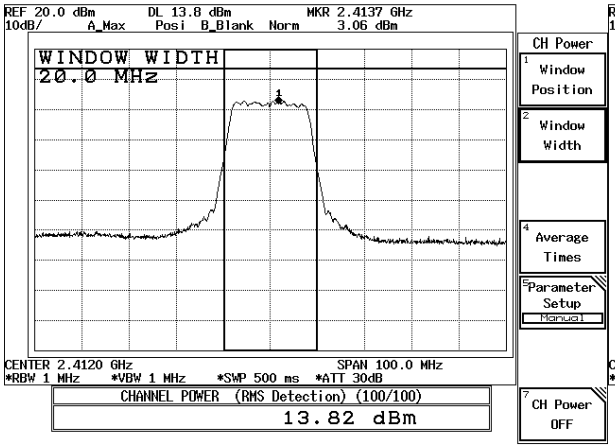


Product : Wireless 11g PCI Mini Card
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g

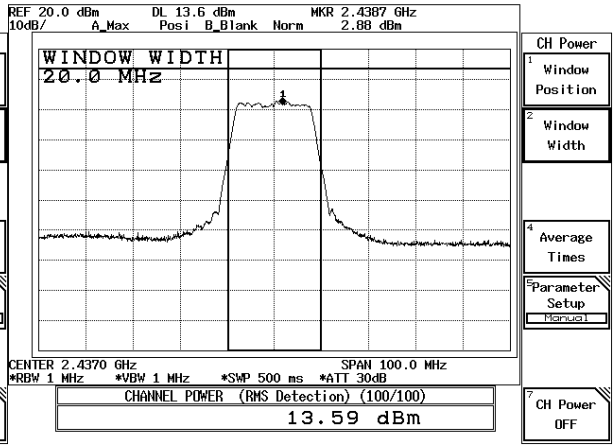
Data Speed: 54Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	13.82dBm	1Watt= 30 dBm	Pass
6	2437.00	13.59dBm	1Watt= 30 dBm	Pass
11	2462.00	13.94dBm	1Watt= 30 dBm	Pass

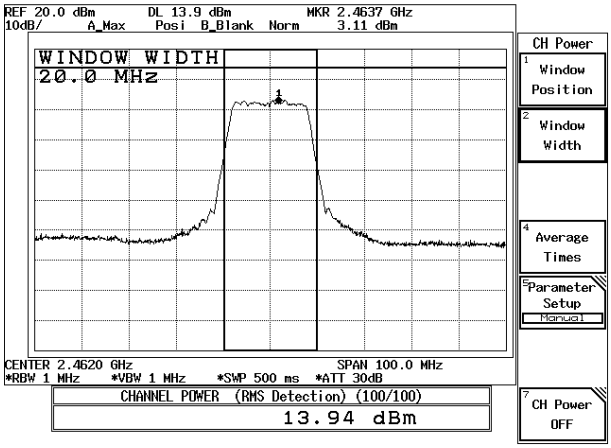
54Mbps-CH01



54Mbps-CH 06



54Mbps-CH11



4. Radiated Emission

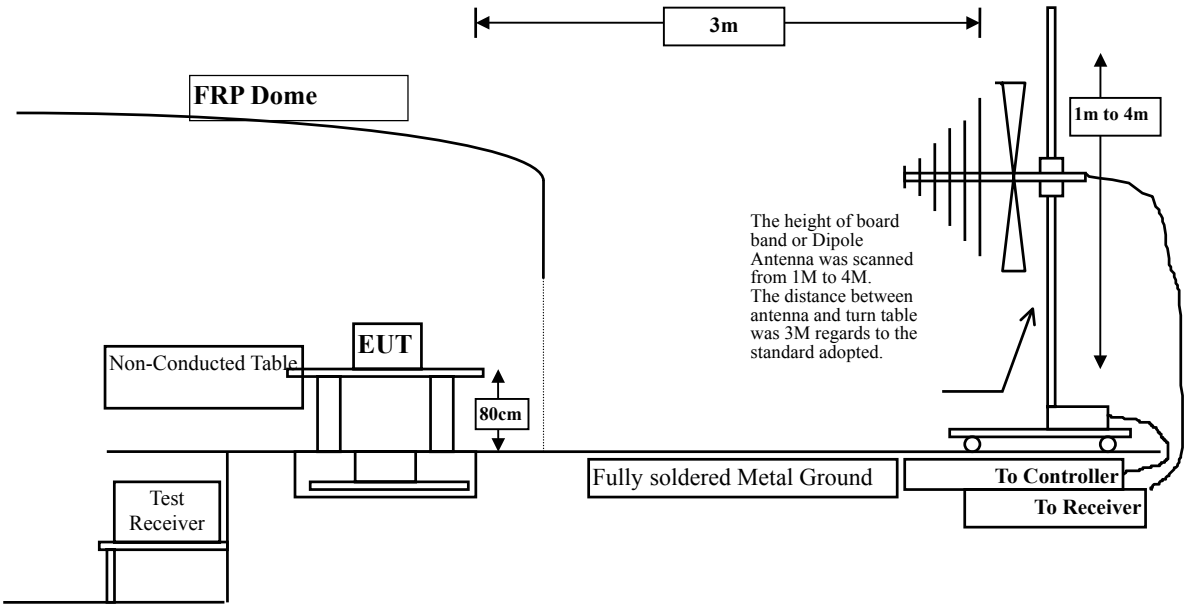
4.1. Test Equipment

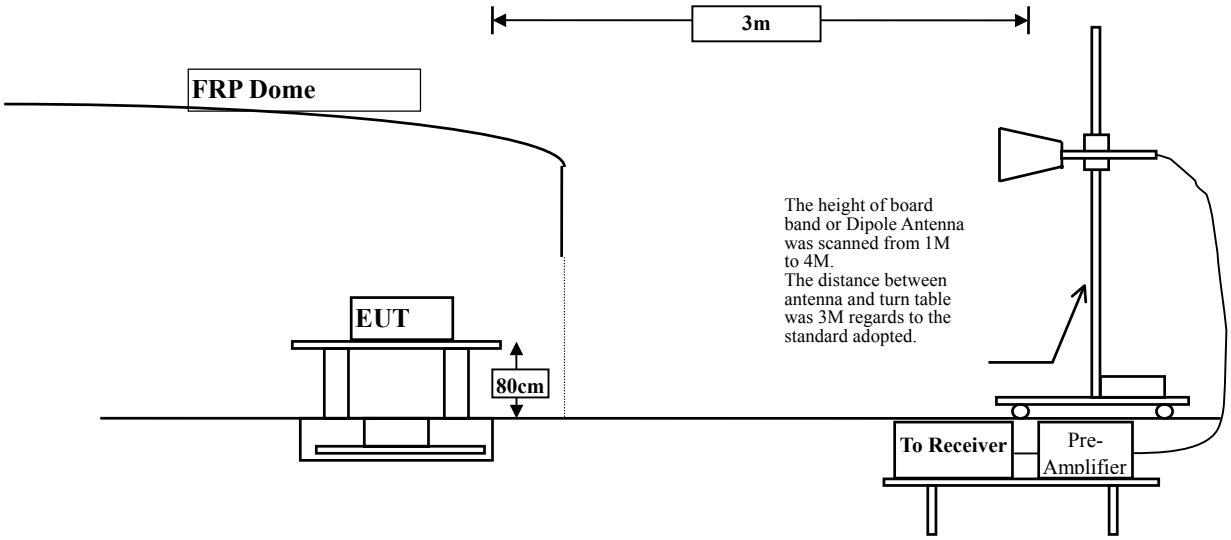
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1		Test Receiver	R & S	ESCS 30 / 825442/14	May, 2005
		Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2005
		Pre-Amplifier	HP	8447D/3307A01812	May, 2005
		Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2005
		Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 2		Test Receiver	R & S	ESCS 30 / 825442/17	May, 2005
		Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2005
		Pre-Amplifier	HP	8447D/3307A01814	May, 2005
		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2005
		Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 3	X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005
	X	Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2005
	X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2005
	X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2005
	X	Horn Antenna	ETS	3115 / 0005-6160	July, 2005
	X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2005

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

4.2. Test Setup





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 dtrength of harmonics measurement.
The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.
The frequency range from 30MHz to 10th harminics is checked.

4.5. Uncertainty

The measurement uncertainty is defined as ± 3.8 dB above 1GHz as ± 3.9 dB

4.6. Test Result of Radiated Emission

Product : Wireless 11g PCI Mini Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b (2412MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.723	40.511	44.234	-29.766	74.000
7236.000	9.439	37.849	47.288	-26.712	74.000
9648.000	11.829	36.970	48.799	-25.201	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	3.723	46.840	50.563	-23.437	74.000
7236.000	9.439	37.910	47.349	-26.651	74.000
9648.000	11.829	37.150	48.979	-25.021	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:30Hz; 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 : Wireless 11g PCI Mini Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b (2437 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.893	38.470	42.362	-31.638	74.000
7311.000	9.624	36.750	46.374	-27.626	74.000
9748.000	11.805	37.280	49.086	-24.914	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	3.893	48.940	52.832	-21.168	74.000
7311.000	9.624	37.450	47.074	-26.926	74.000
9748.000	11.805	37.590	49.396	-24.604	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:30Hz; 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 : Wireless 11g PCI Mini Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b (2462 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4924.000	4.075	40.480	44.555	-29.445	74.000
7386.000	9.812	36.870	46.682	-27.318	74.000
9848.000	11.819	36.680	48.499	-25.501	74.000
Average Detector:					
--					
Vertical Peak Detector:					
4924.000	4.075	39.350	43.425	-30.575	74.000
7386.000	9.812	37.100	46.912	-27.088	74.000
9848.000	11.819	37.290	49.109	-24.891	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:30Hz; 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 : Wireless 11g PCI Mini Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3OATS
Test Mode : Mode 2: Transmitter 802.11g (2412 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4824.000	3.723	38.010	41.733	-32.267	74.000
7236.000	9.439	38.380	47.819	-26.181	74.000
9648.000	11.829	37.550	49.379	-24.621	74.000
Average Detector:					
--					
Vertical Peak Detector:					
4824.000	3.723	38.920	42.643	-31.357	74.000
7236.000	9.439	38.070	47.509	-26.491	74.000
9648.000	11.829	37.220	49.049	-24.951	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:30Hz; 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 : Wireless 11g PCI Mini Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g (2437 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.893	38.300	42.192	-31.808	74.000
7311.000	9.624	36.890	46.514	-27.486	74.000
9748.000	11.805	37.240	49.046	-24.954	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	3.893	39.890	43.782	-30.218	74.000
7311.000	9.624	37.080	46.704	-27.296	74.000
9748.000	11.805	37.020	48.826	-25.174	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:30Hz; 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 : Wireless 11g PCI Mini Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g (2462 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4924.000	4.075	38.940	43.015	-30.985	74.000
7386.000	9.812	37.340	47.152	-26.848	74.000
9848.000	11.819	36.760	48.579	-25.421	74.000
Average Detector:					
--					
Vertical Peak Detector:					
4924.000	4.075	44.310	48.385	-25.615	74.000
7386.000	9.812	36.500	46.312	-27.688	74.000
9848.000	11.819	37.790	49.609	-24.391	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:30Hz; 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 : Wireless 11g PCI Mini Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b (2412 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
325.560	13.951	8.602	22.553	-23.447	46.000
364.650	15.770	6.801	22.571	-23.429	46.000
527.120	18.485	4.707	23.192	-22.808	46.000
672.620	20.658	5.281	25.939	-20.061	46.000
*854.850	22.515	4.686	27.201	-18.799	46.000
992.720	23.488	9.631	33.119	-20.881	54.000
Vertical					
248.250	13.013	7.666	20.679	-25.321	46.000
367.080	16.475	5.562	22.037	-23.963	46.000
459.230	18.400	4.800	23.200	-22.800	46.000
602.300	21.980	7.372	29.352	-16.648	46.000
*752.650	23.201	10.925	34.126	-11.874	46.000
929.670	24.178	5.265	29.442	-16.558	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : Wireless 11g PCI Mini Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b (2437 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
364.650	15.770	7.421	23.191	-22.809	46.000
500.450	18.352	6.451	24.803	-21.197	46.000
599.880	20.000	5.922	25.922	-20.078	46.000
*772.050	21.743	7.681	29.424	-16.576	46.000
883.600	22.418	6.613	29.031	-16.969	46.000
992.720	23.488	10.311	33.799	-20.201	54.000
Vertical					
221.570	10.461	13.883	24.344	-21.656	46.000
384.050	16.822	6.235	23.057	-22.943	46.000
539.250	19.997	6.155	26.152	-19.848	46.000
689.600	20.441	4.416	24.857	-21.143	46.000
*883.600	22.818	12.333	35.151	-10.849	46.000
992.720	22.738	13.451	36.190	-17.810	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "*" means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : Wireless 11g PCI Mini Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b (2462 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
301.600	14.066	11.995	26.061	-19.939	46.000
405.880	17.141	4.323	21.464	-24.536	46.000
500.450	18.352	6.231	24.583	-21.417	46.000
599.880	20.000	5.492	25.492	-20.508	46.000
701.720	20.632	6.080	26.712	-19.288	46.000
*864.200	22.212	6.495	28.707	-17.293	46.000
Vertical					
301.600	13.669	6.335	20.004	-25.996	46.000
365.000	16.451	5.925	22.376	-23.624	46.000
381.620	16.688	4.793	21.481	-24.519	46.000
529.550	19.013	6.284	25.297	-20.703	46.000
689.600	20.441	3.976	24.417	-21.583	46.000
*883.600	22.818	11.263	34.081	-11.919	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : Wireless 11g PCI Mini Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g (2412 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
301.600	14.066	11.845	25.911	-20.089	46.000
364.650	15.770	7.580	23.350	-22.650	46.000
527.120	18.485	6.747	25.232	-20.768	46.000
621.700	21.003	8.324	29.327	-16.673	46.000
*803.580	21.827	11.027	32.854	-13.146	46.000
927.250	23.115	4.890	28.005	-17.995	46.000
Vertical					
364.650	16.451	6.021	22.472	-23.528	46.000
527.120	18.888	7.297	26.185	-19.815	46.000
687.170	20.371	5.328	25.700	-20.300	46.000
*772.050	22.493	13.031	35.524	-10.476	46.000
883.600	22.818	12.023	34.841	-11.159	46.000
958.780	23.150	7.696	30.846	-15.154	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : Wireless 11g PCI Mini Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g (2437 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
231.270	10.997	7.237	18.234	-27.766	46.000
311.300	13.820	6.808	20.628	-25.372	46.000
529.550	18.654	8.074	26.728	-19.272	46.000
711.420	20.659	8.216	28.875	-17.125	46.000
*803.580	21.827	10.127	31.954	-14.046	46.000
992.720	23.488	9.981	33.469	-20.531	54.000
Vertical					
221.570	10.461	15.103	25.564	-20.436	46.000
364.650	16.451	6.331	22.782	-23.218	46.000
530.640	19.038	8.362	27.401	-18.599	46.000
602.300	21.980	7.650	29.630	-16.370	46.000
*883.600	22.818	12.043	34.861	-11.139	46.000
992.720	22.738	8.451	31.190	-22.810	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : Wireless 11g PCI Mini Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g (2462 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
301.600	14.066	10.495	24.561	-21.439	46.000
461.650	18.642	5.300	23.942	-22.058	46.000
553.800	19.799	5.114	24.913	-21.087	46.000
672.620	20.658	6.041	26.699	-19.301	46.000
772.050	21.743	7.888	29.631	-16.369	46.000
*929.670	22.978	6.836	29.813	-16.187	46.000
Vertical					
233.700	11.442	12.838	24.280	-21.720	46.000
364.650	16.451	6.231	22.682	-23.318	46.000
459.230	18.400	4.880	23.280	-22.720	46.000
599.880	21.899	8.152	30.051	-15.949	46.000
694.450	20.409	4.545	24.954	-21.046	46.000
*883.600	22.818	11.643	34.461	-11.539	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

5. Band Edge

5.1. Test Equipment

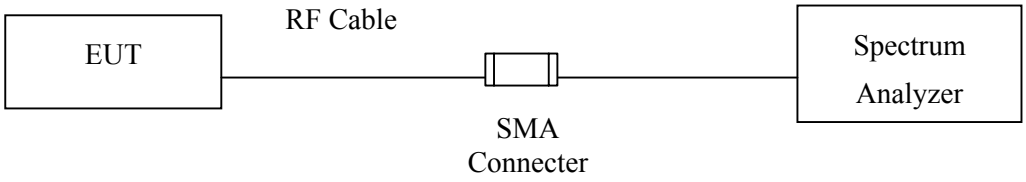
The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	HP	E4407B / US39440758	May, 2005
X	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2005
X	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2005
X	Pre-Amplifier	HP	8447D/3307A01812	May, 2005
X	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2005
X	Horn Antenna	EM	EM6917 / 103325	May, 2005

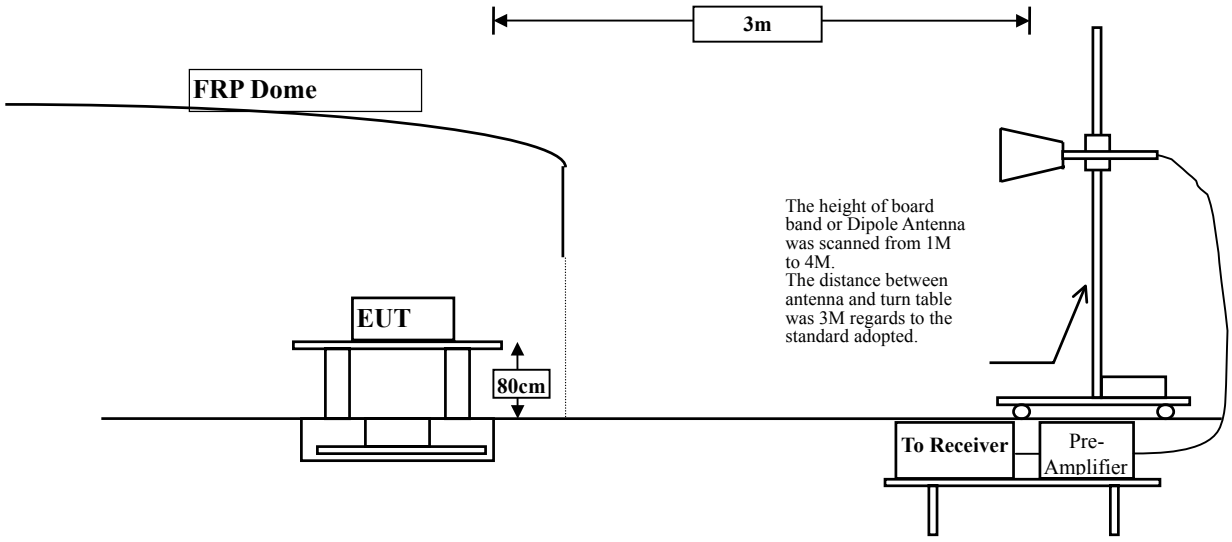
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



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 (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

5.5. Uncertainty

The measurement uncertainty Conducted is defined as ± 1 MHz and Radiated above 1GHz as ± 3.9 dB.

5.6. Test Result of Band Edge

Product : Wireless 11g PCI Mini Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b

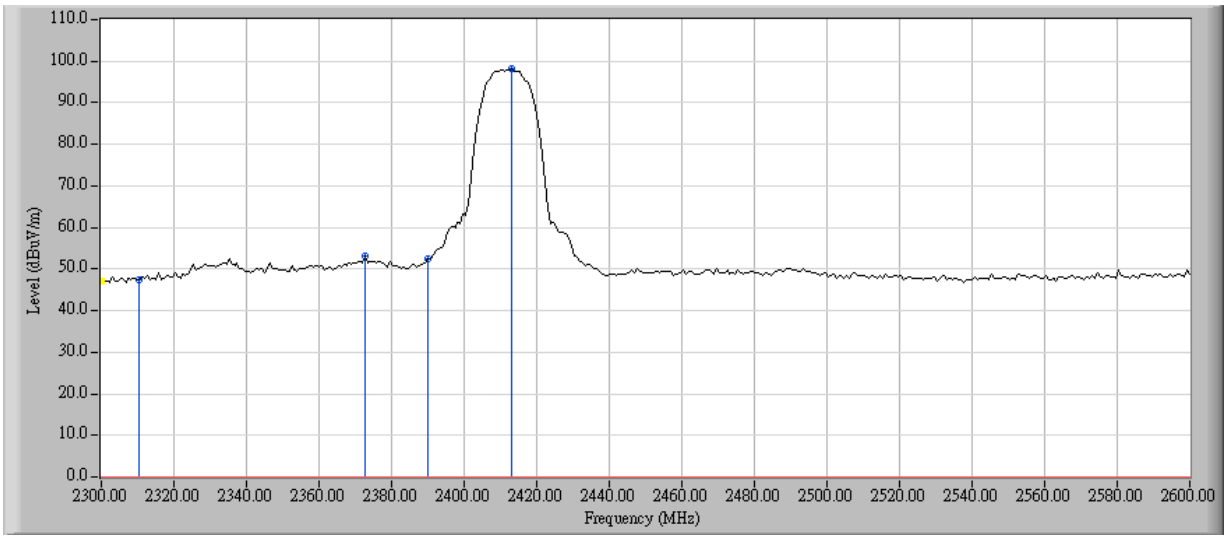
RF Radiated Measurement:

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

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
1 (Peak)	2372.750	55.718	53.260	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

Figure Channel 1: (Horizontal)



Product : Wireless 11g PCI Mini Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b

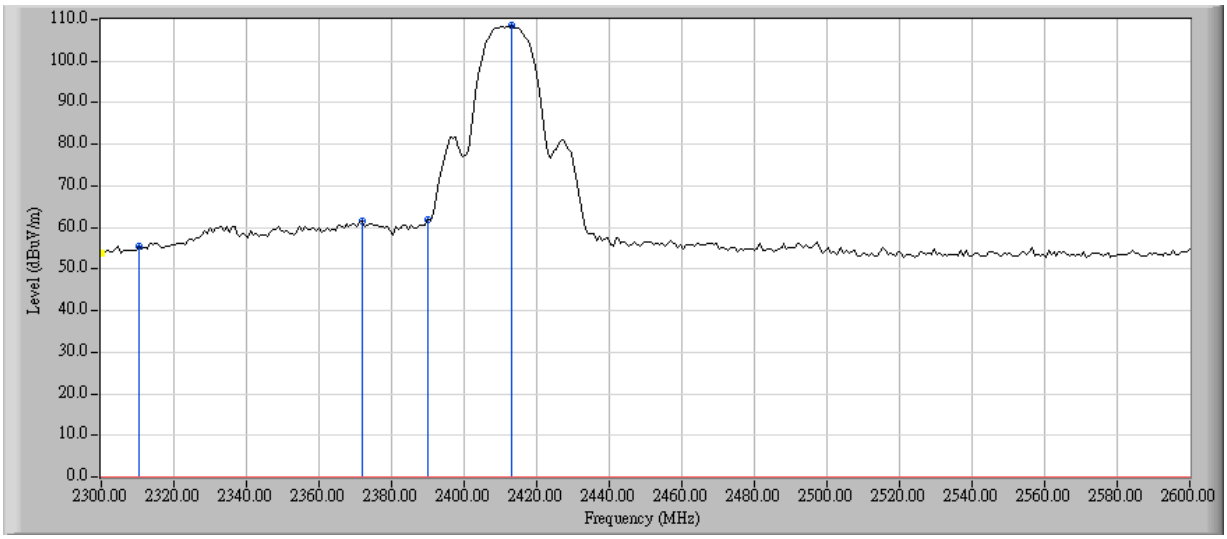
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
1 (Peak)	2372.000	63.921	61.460	74.00	54.00	Pass
1 (Average)	2372.000	53.481	51.020	74.00	54.00	Pass

Figure Channel 1: (Vertical)

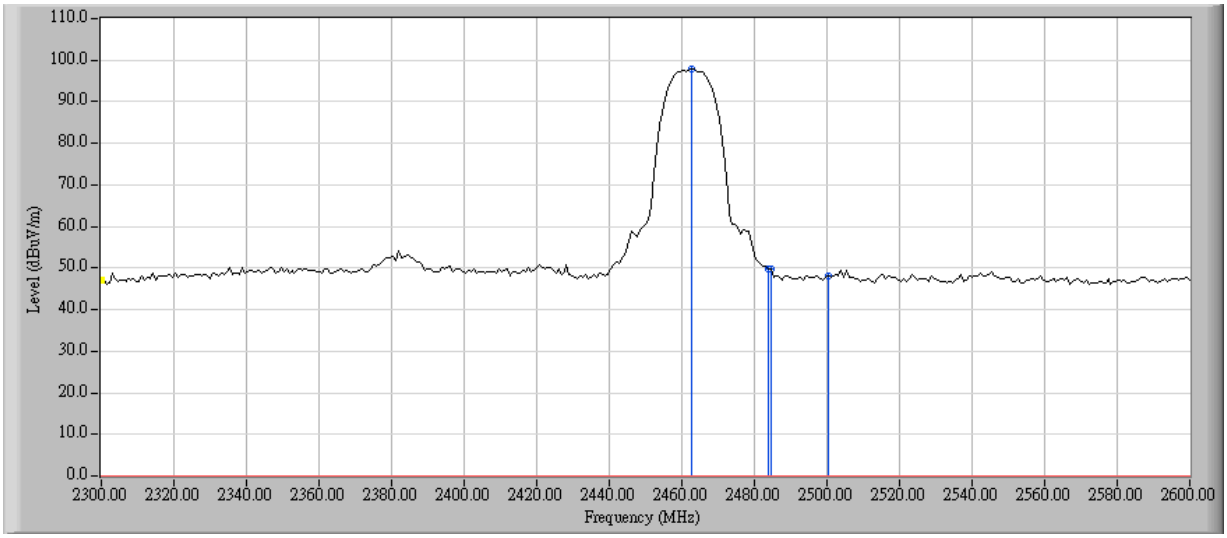


Product : Wireless 11g PCI Mini Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Peak)	2484.500	51.674	49.740	74.00	54.00	Pass
11(Average)	--	--	--	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

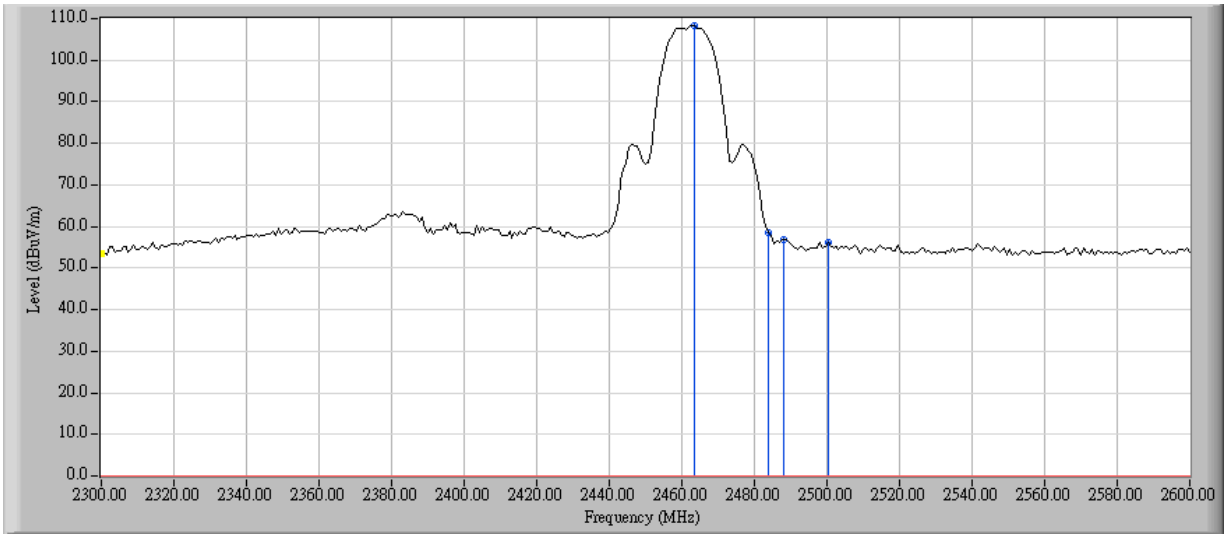


Product : Wireless 11g PCI Mini Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Peak)	2488.250	58.762	56.840	74.00	54.00	Pass
11(Average)	2488.250	50.686	48.750	74.00	54.00	Pass

Figure Channel 11: (Vertical)



Product : Wireless 11g PCI Mini Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g

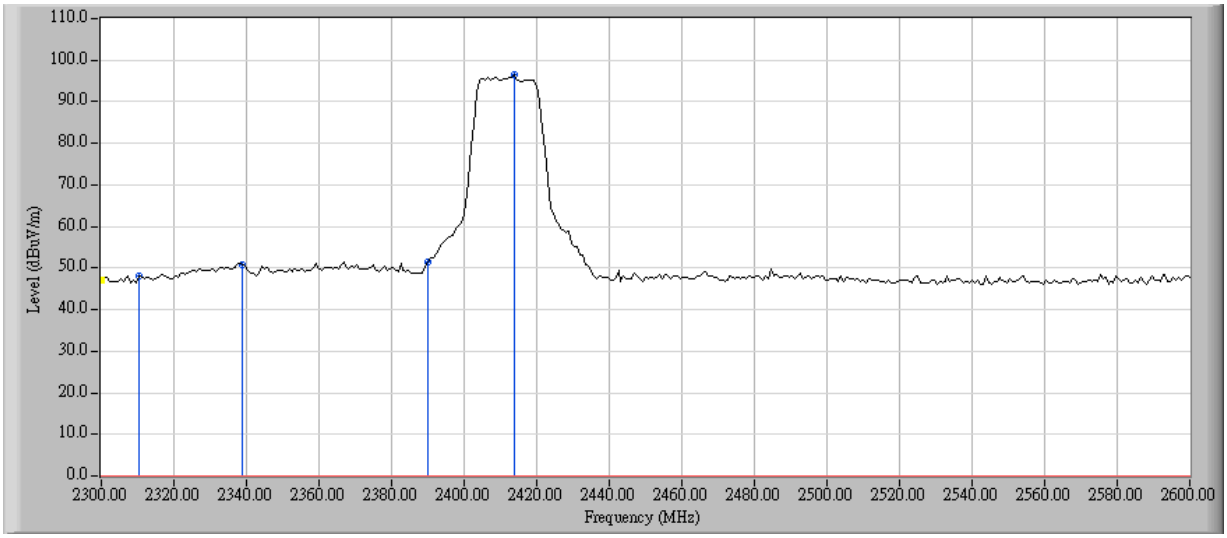
RF Radiated Measurement:

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

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
1 (Peak)	2339.000	53.519	50.900	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

Figure Channel 1: (Horizontal)



Product : Wireless 11g PCI Mini Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g

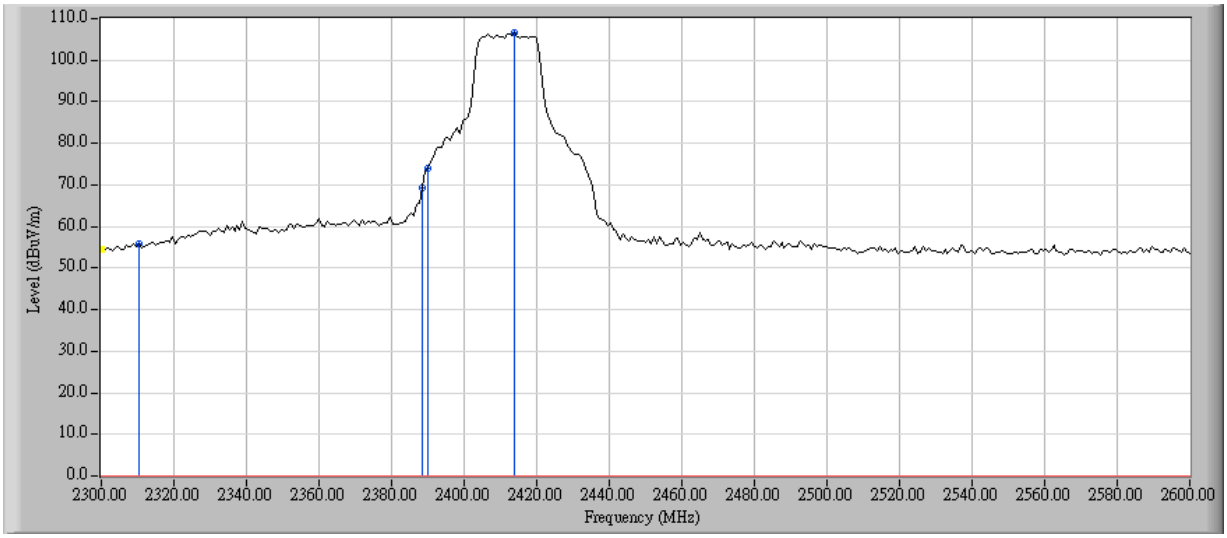
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
1 (Peak)	2388.500	71.695	69.310	74.00	54.00	Pass
1 (Average)	2388.500	53.705	51.320	74.00	54.00	Pass

Figure Channel 1: (Vertical)

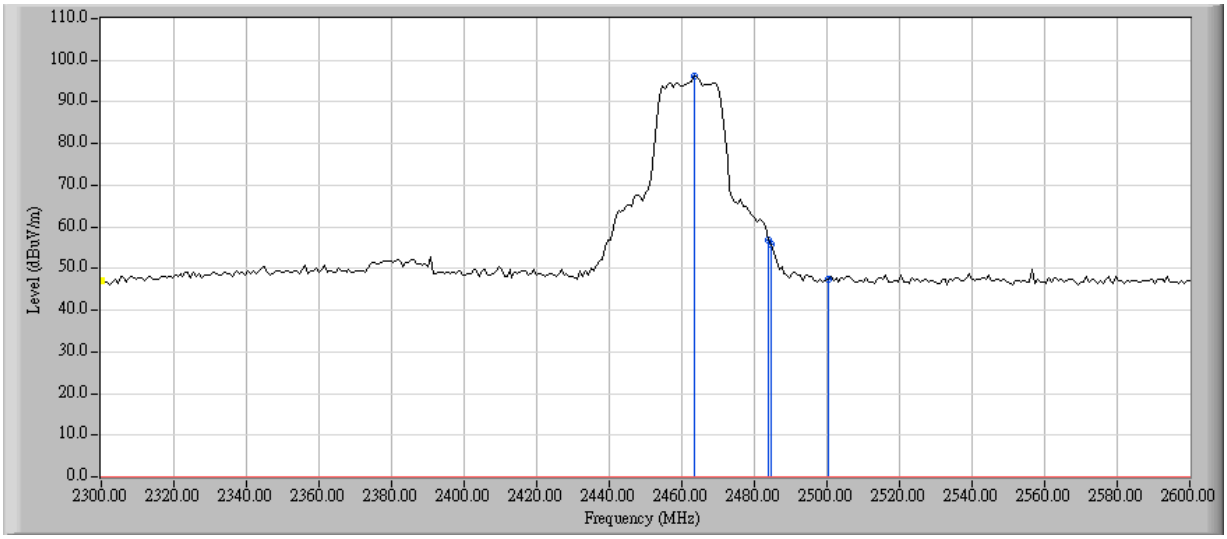


Product : Wireless 11g PCI Mini Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11 (Peak)	2484.500	57.714	55.780	74.00	54.00	Pass
11(Average)	2484.500	45.406	43.470	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

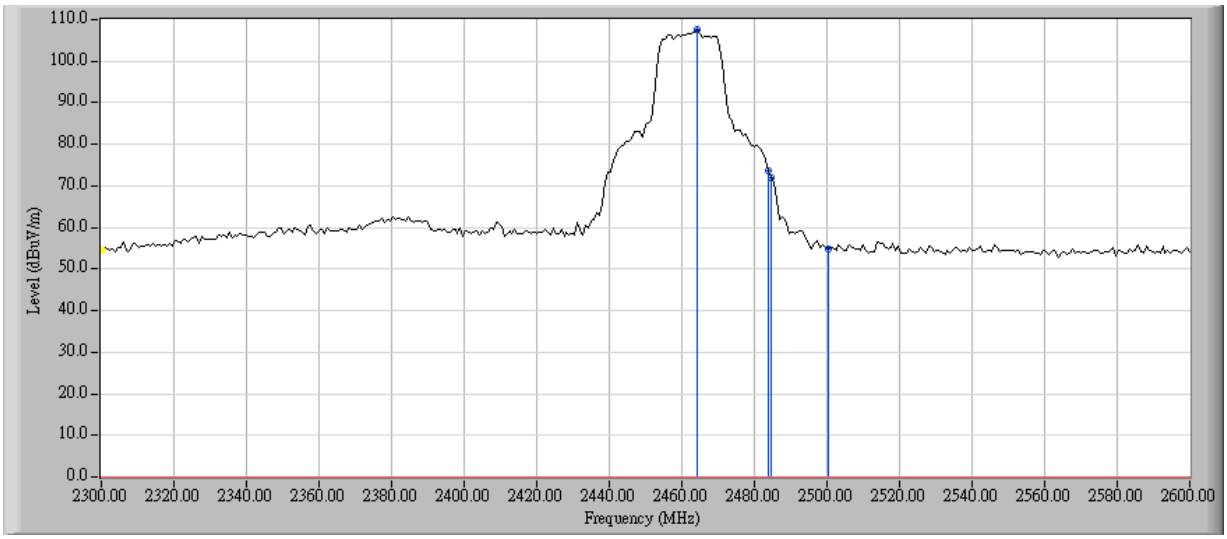


Product : Wireless 11g PCI Mini Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11 (Peak)	2484.500	73.924	71.990	74.00	54.00	Pass
11(Average)	2484.500	54.744	52.810	74.00	54.00	Pass

Figure Channel 11: (Vertical)



Note: 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.

6. Occupied Bandwidth

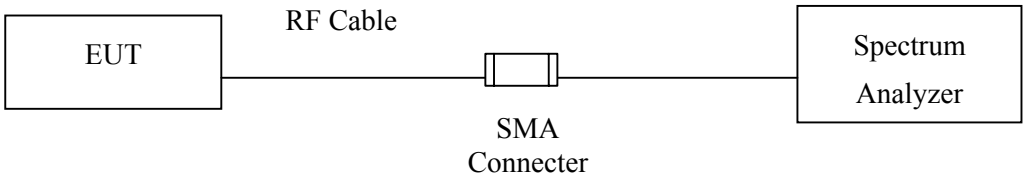
6.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2005

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark "X" test instruments 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

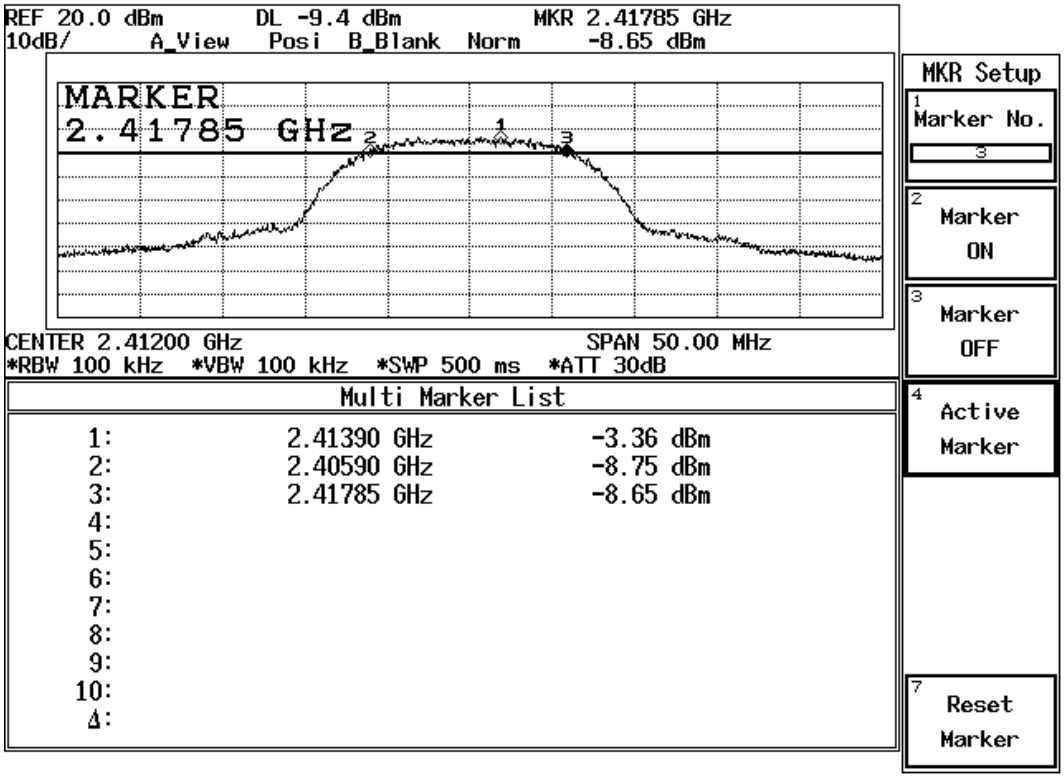
The measurement uncertainty is defined as ± 1.27 dB

6.5. Test Result of Occupied Bandwidth

Product : Wireless 11g PCI Mini Card
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 (11Mbps)	2412	11950	>500	Pass

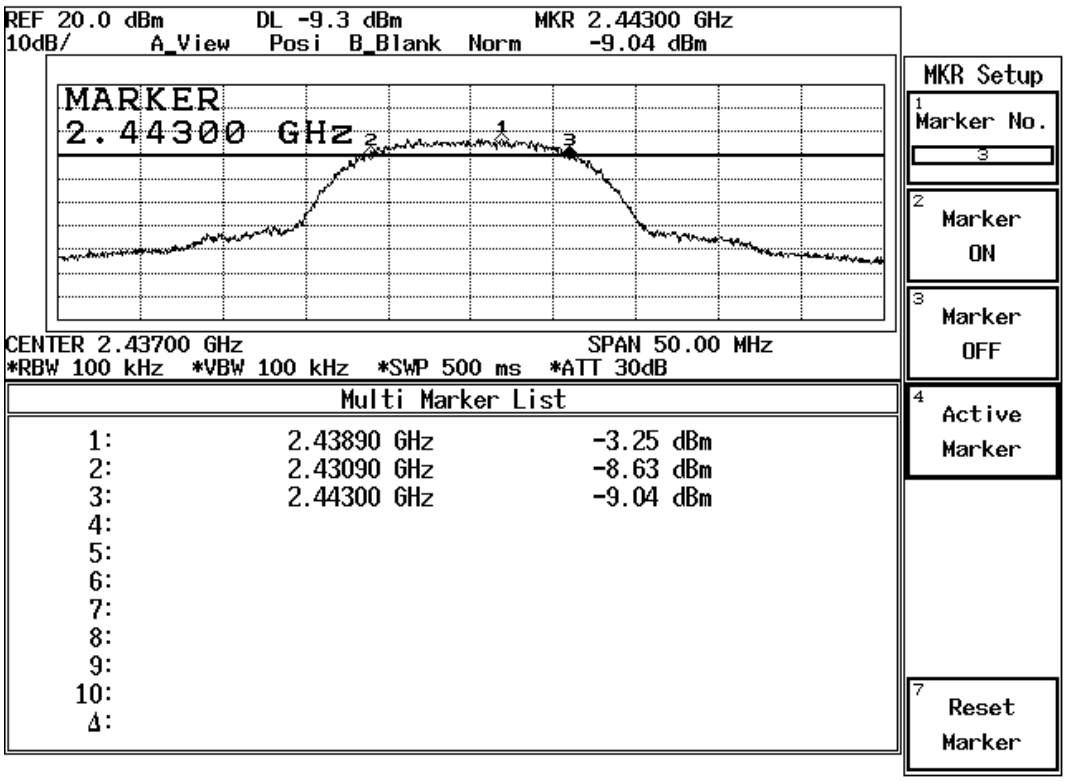
Figure Channel 1: 11Mbps



Product : Wireless 11g PCI Mini Card
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 (11Mbps)	2437	12100	>500	Pass

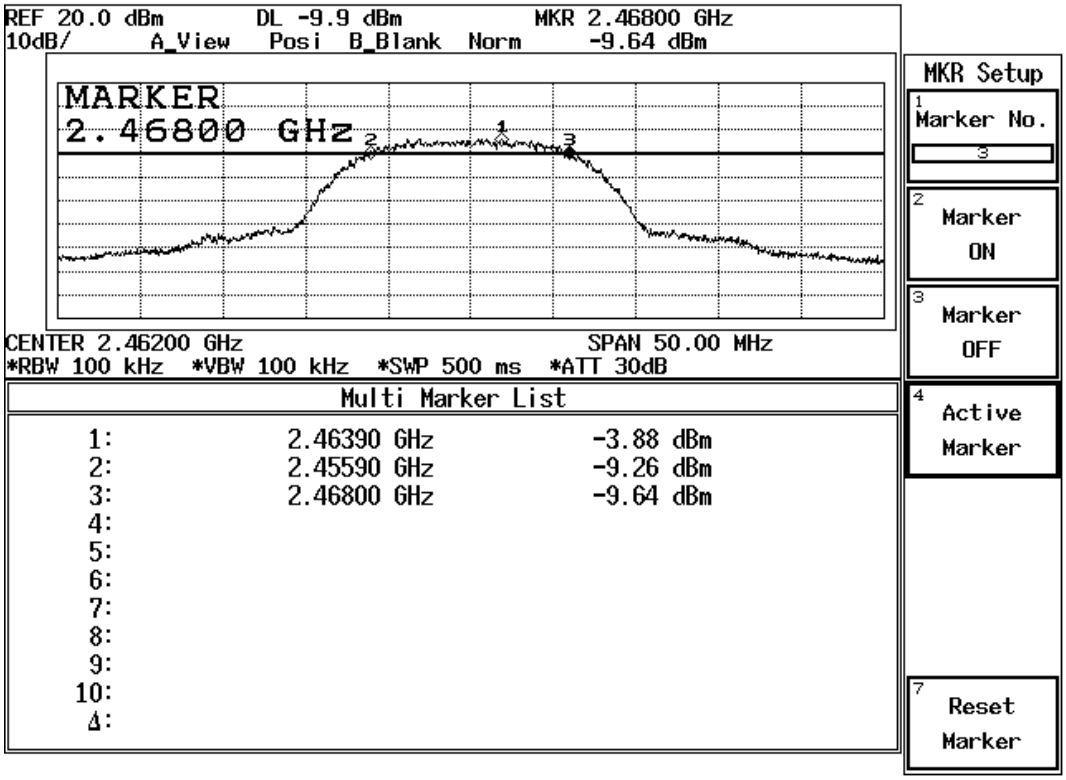
Figure Channel 6: 11Mbps



Product : Wireless 11g PCI Mini Card
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 (11Mbps)	2462	12100	>500	Pass

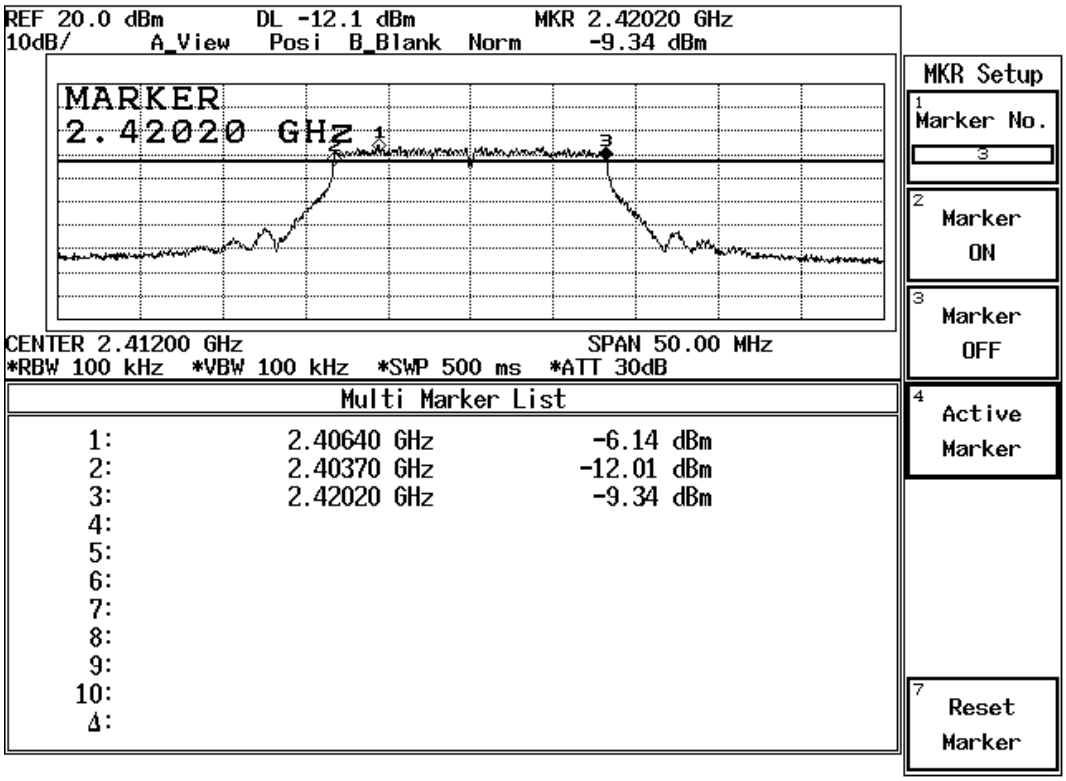
Figure Channel 11: 11Mbps



Product : Wireless 11g PCI Mini Card
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 (54Mbps)	2412	16500	>500	Pass

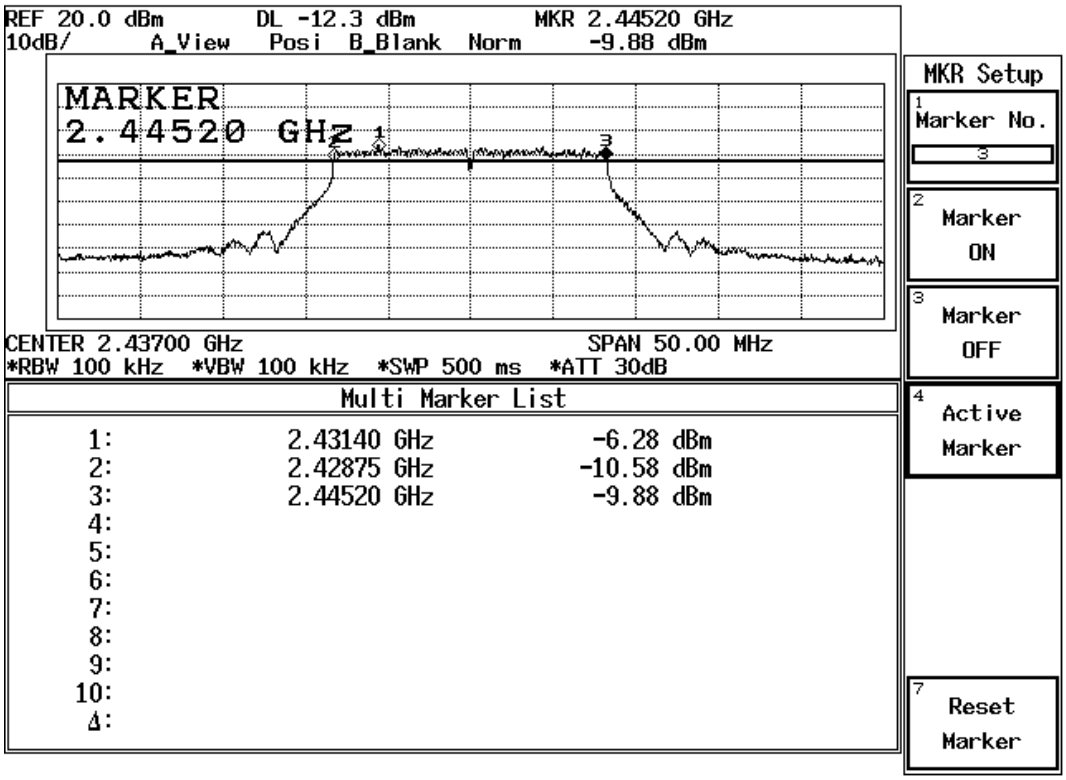
Figure Channel 1: 54Mbps



Product : Wireless 11g PCI Mini Card
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 (54Mbps)	2437	16500	>500	Pass

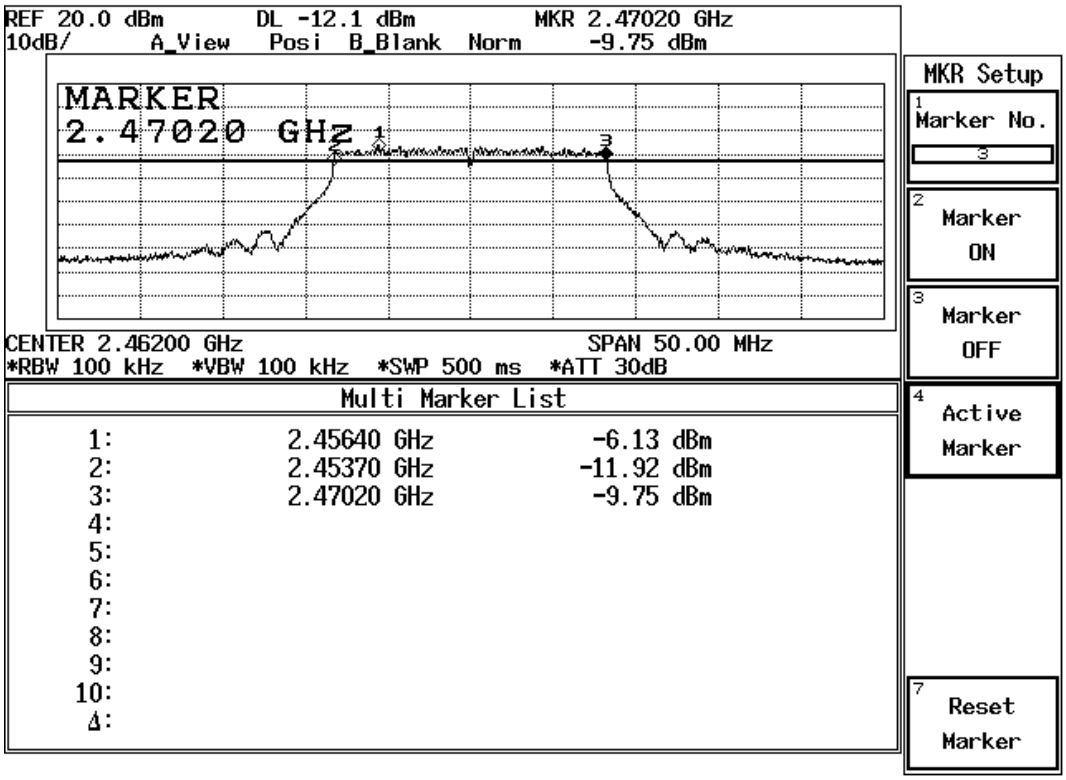
Figure Channel 6: 54Mbps



Product : Wireless 11g PCI Mini Card
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 (54Mbps)	2462	16500	>500	Pass

Figure Channel 11: 54Mbps



7. Power Density

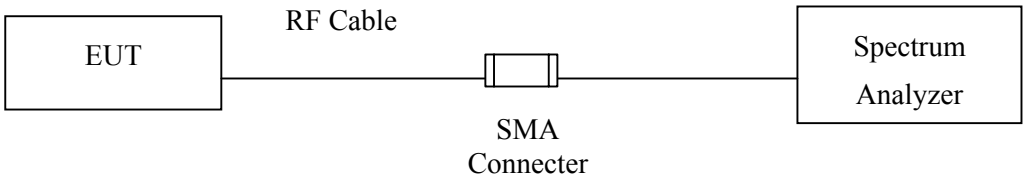
7.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2005

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark "X" test instruments 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

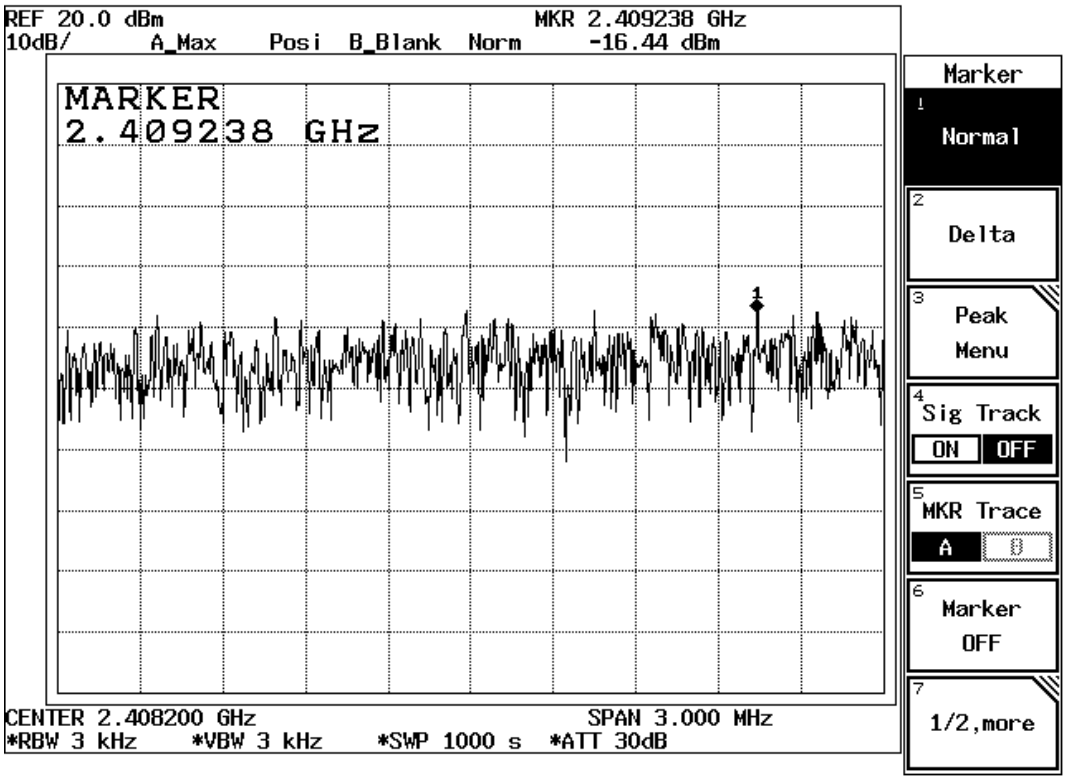
The measurement uncertainty is defined as ± 1.27 dB

7.5. Test Result of Power Density

Product : Wireless 11g PCI Mini Card
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 (11Mbps)	2412	-16.44	< 8dBm	Pass

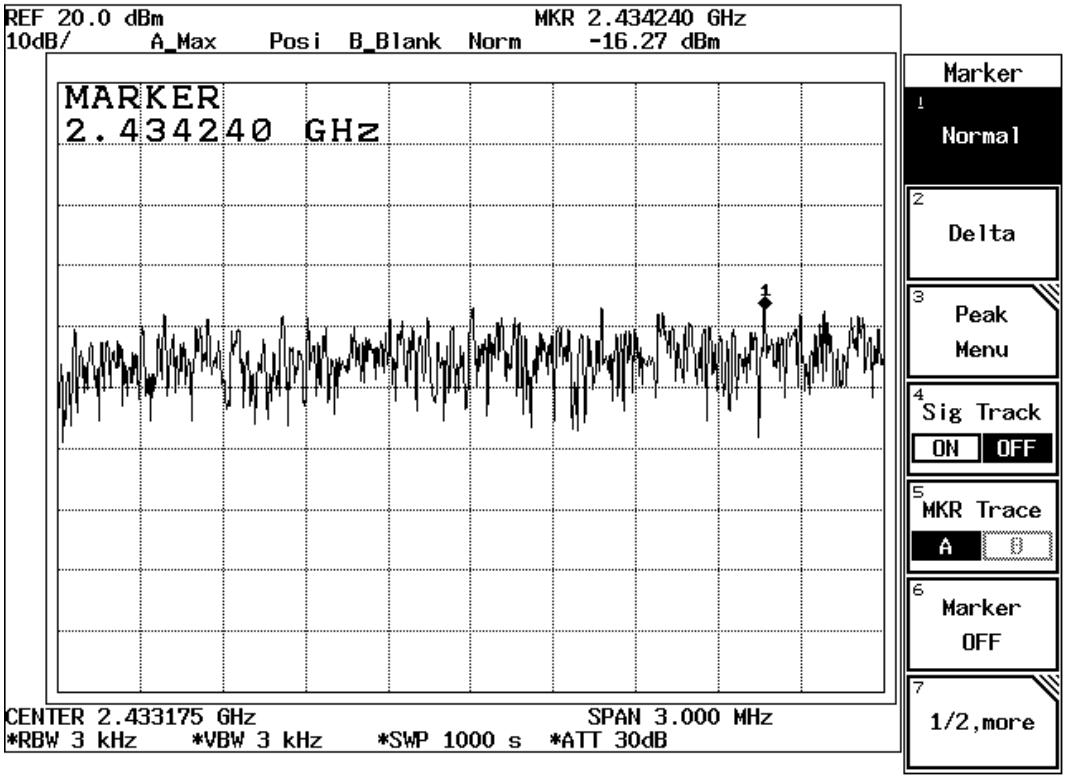
Figure Channel 1: 11Mbps



Product : Wireless 11g PCI Mini Card
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 (11Mbps)	2437	-16.27	< 8dBm	Pass

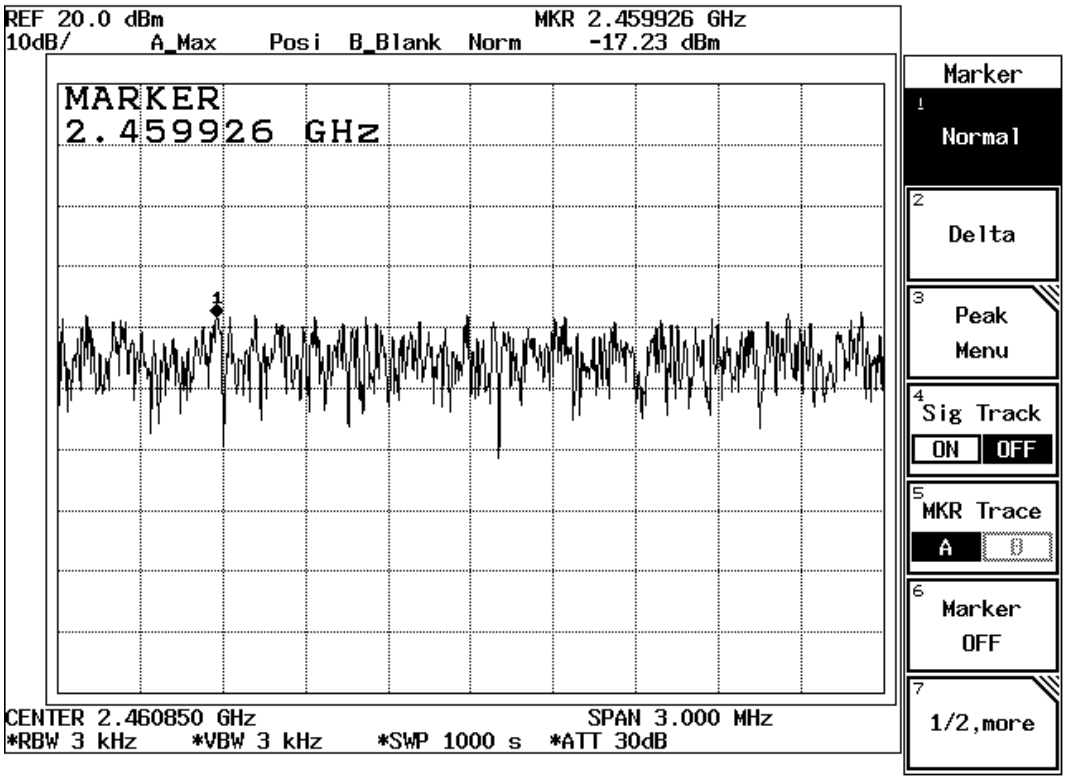
Figure Channel 6: 11Mbps



Product : Wireless 11g PCI Mini Card
Test Item : 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 (11Mbps)	2462	-17.23	< 8dBm	Pass

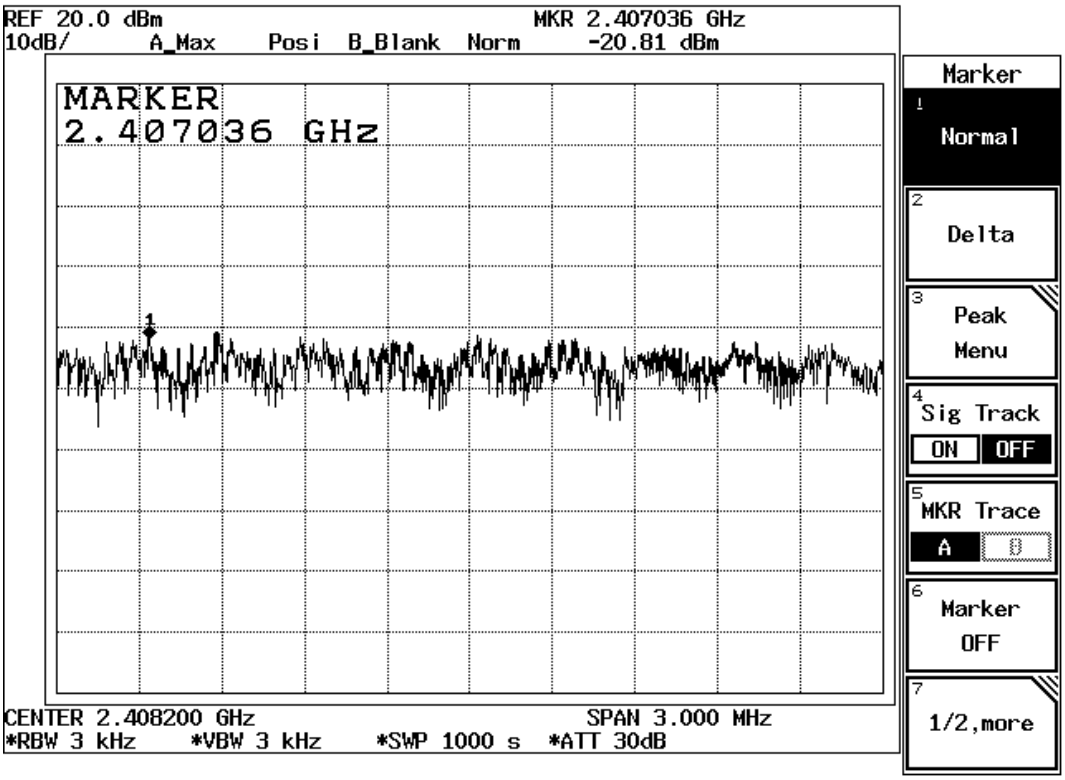
Figure Channel 11: 11Mbps



Product : Wireless 11g PCI Mini Card
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 (54Mbps)	2412	-20.81	< 8dBm	Pass

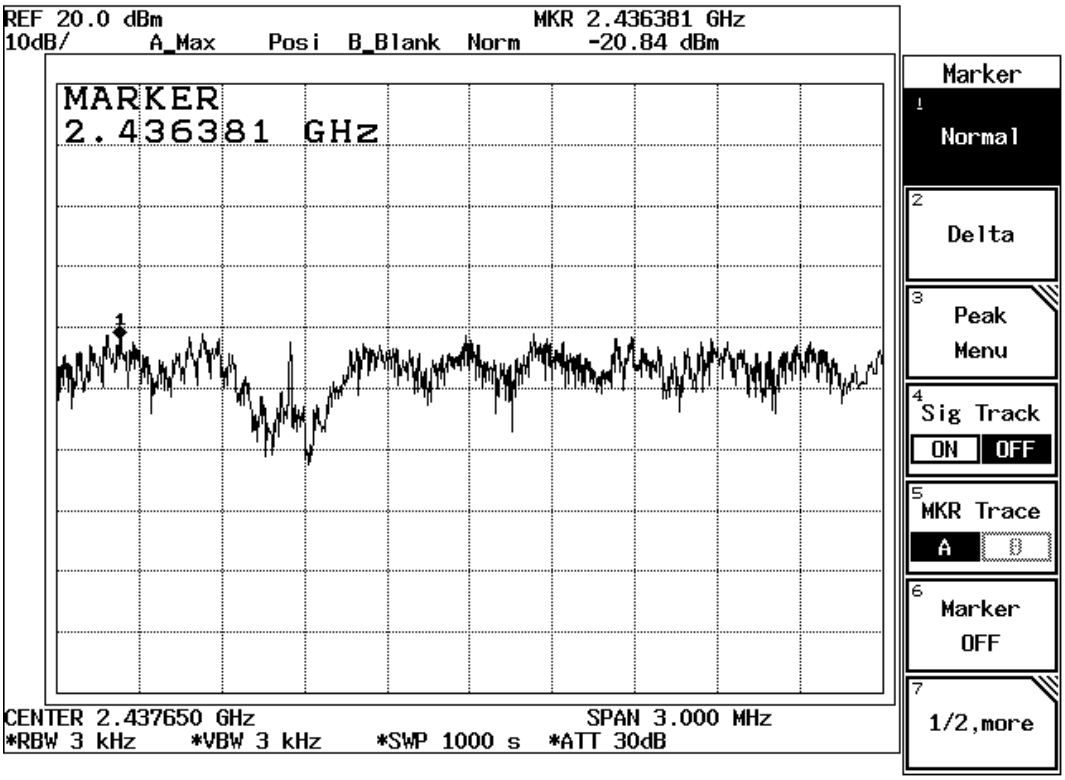
Figure Channel 1: 54Mbps



Product : Wireless 11g PCI Mini Card
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 (54Mbps)	2437	-20.84	< 8dBm	Pass

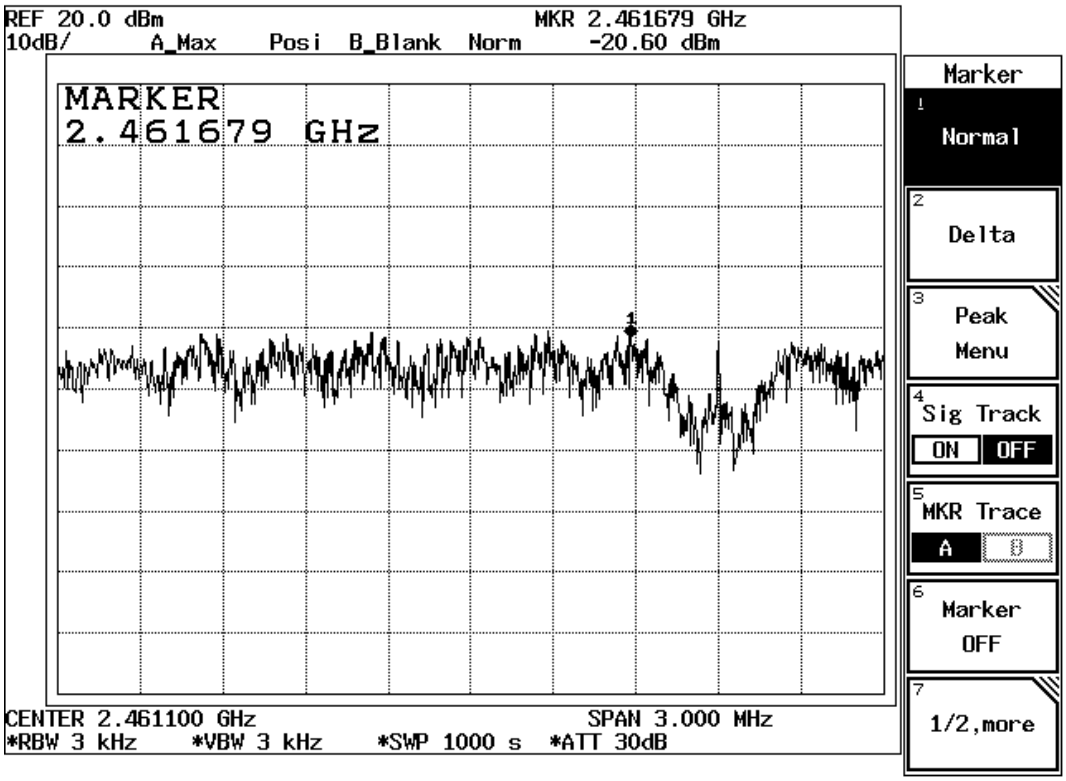
Figure Channel 6: 54Mbps



Product : Wireless 11g PCI Mini Card
Test Item : 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 (54Mbps)	2462	-20.60	< 8dBm	Pass

Figure Channel 11: 54Mbps



8. EMI Reduction Method During Compliance Testing

No modification was made during testing.

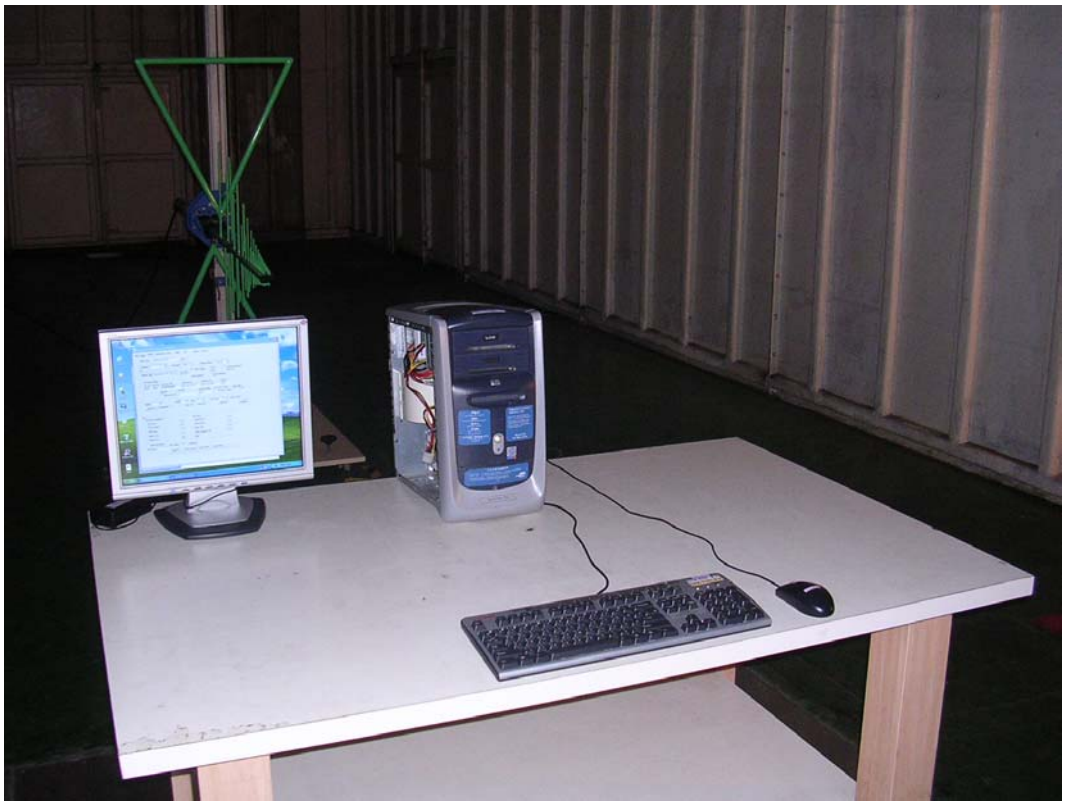
Attachment 1: EUT Test Photographs

Attachment 1: EUT Test Setup Photographs

Front View of Conducted Test

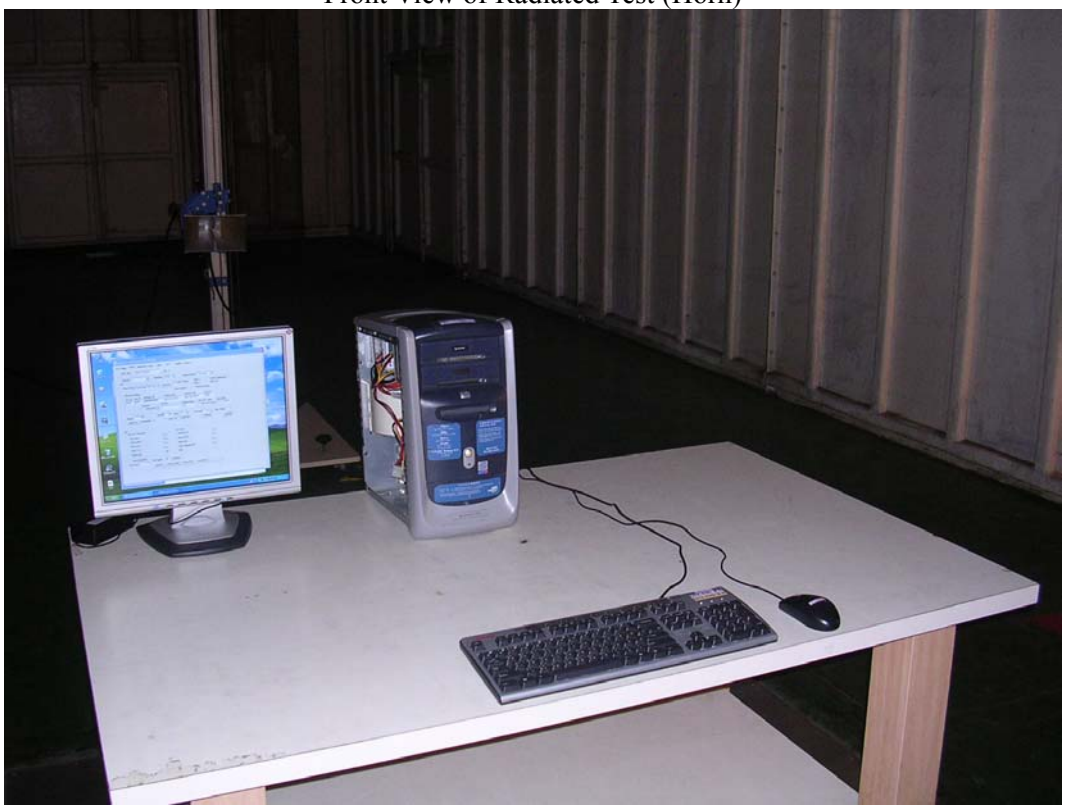
Back View of Conducted Test

Front View of Radiated Test



Back View of Radiated Test

Front View of Radiated Test (Horn)

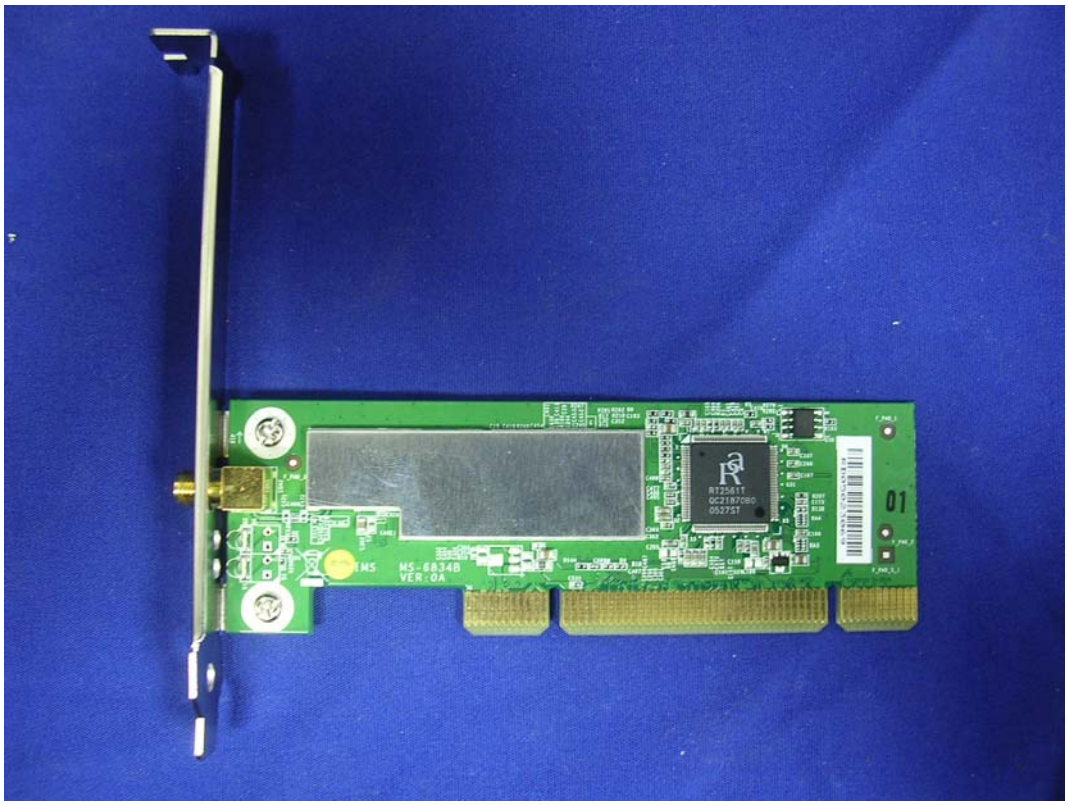


Back View of Radiated Test (Horn)

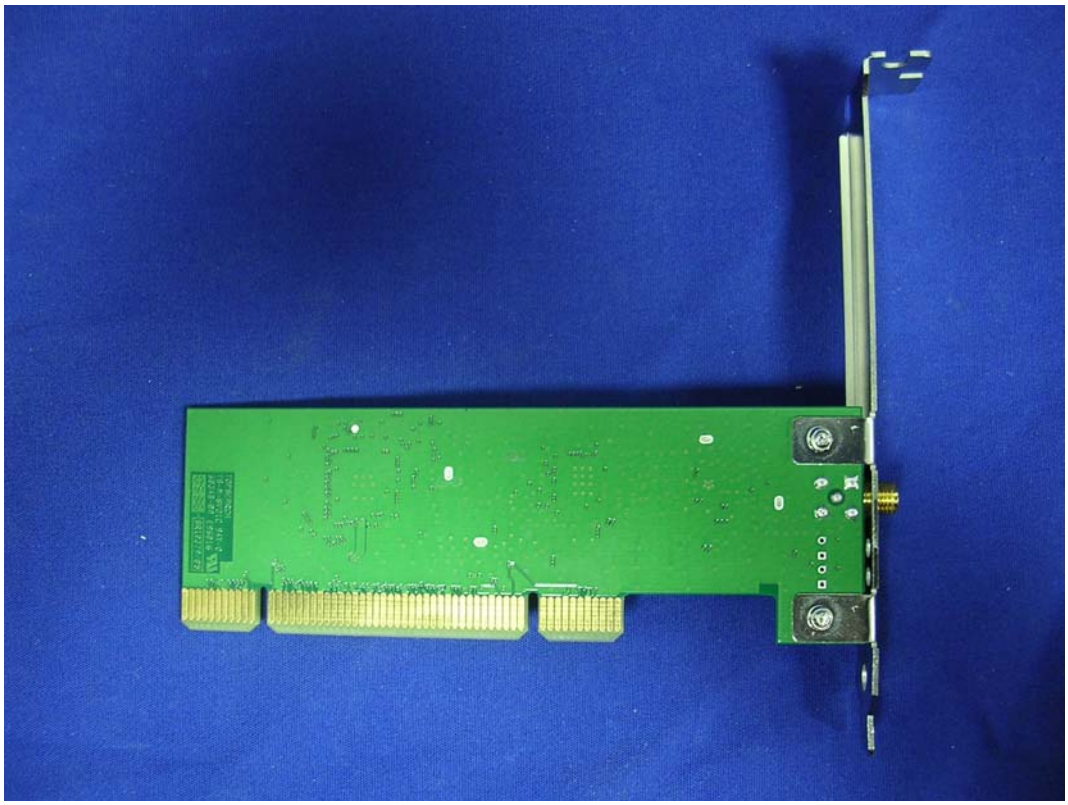
Attachment 2: EUT Detailed Photographs

Attachment 2 : EUT Detailed Photographs

(1) EUT Photo



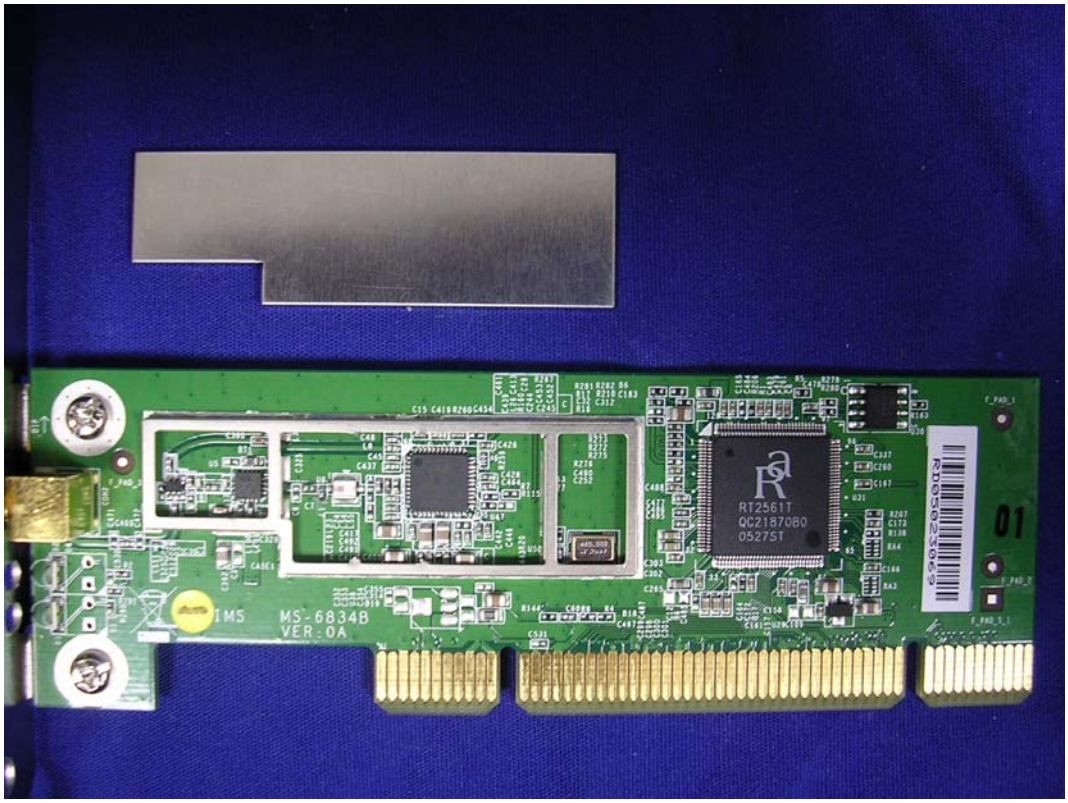
(2) EUT Photo



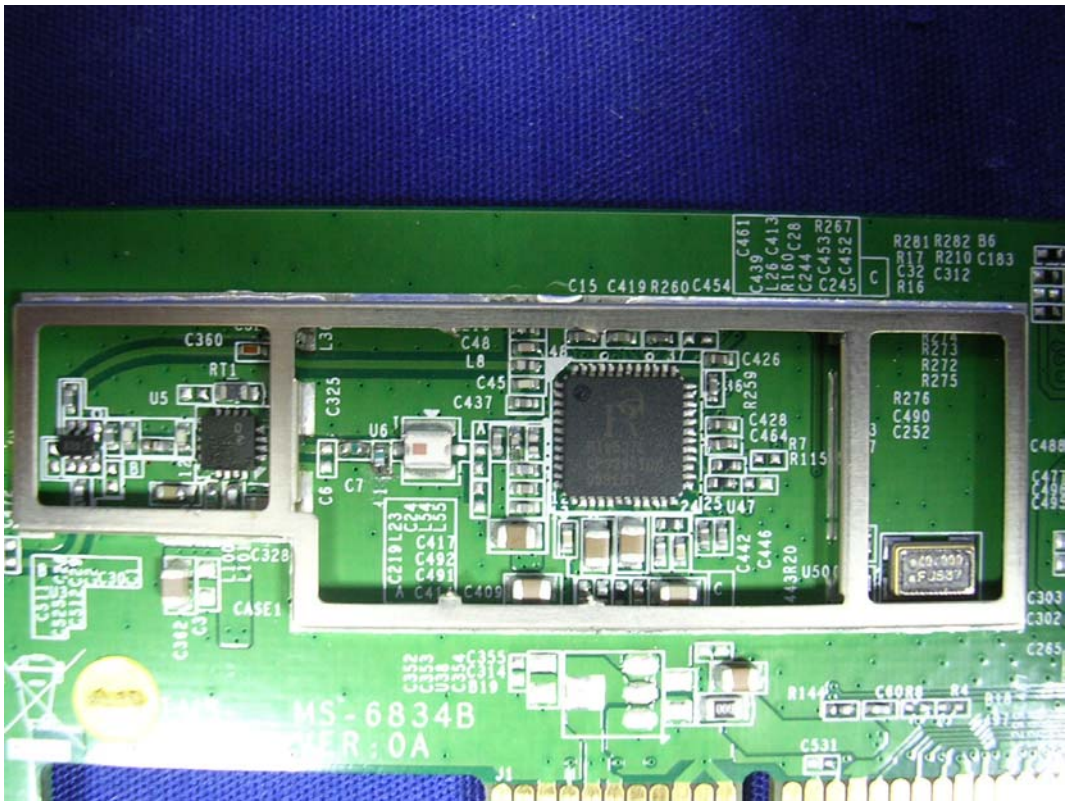
(3) EUT Photo

(4) EUT Photo

(5) EUT Photo

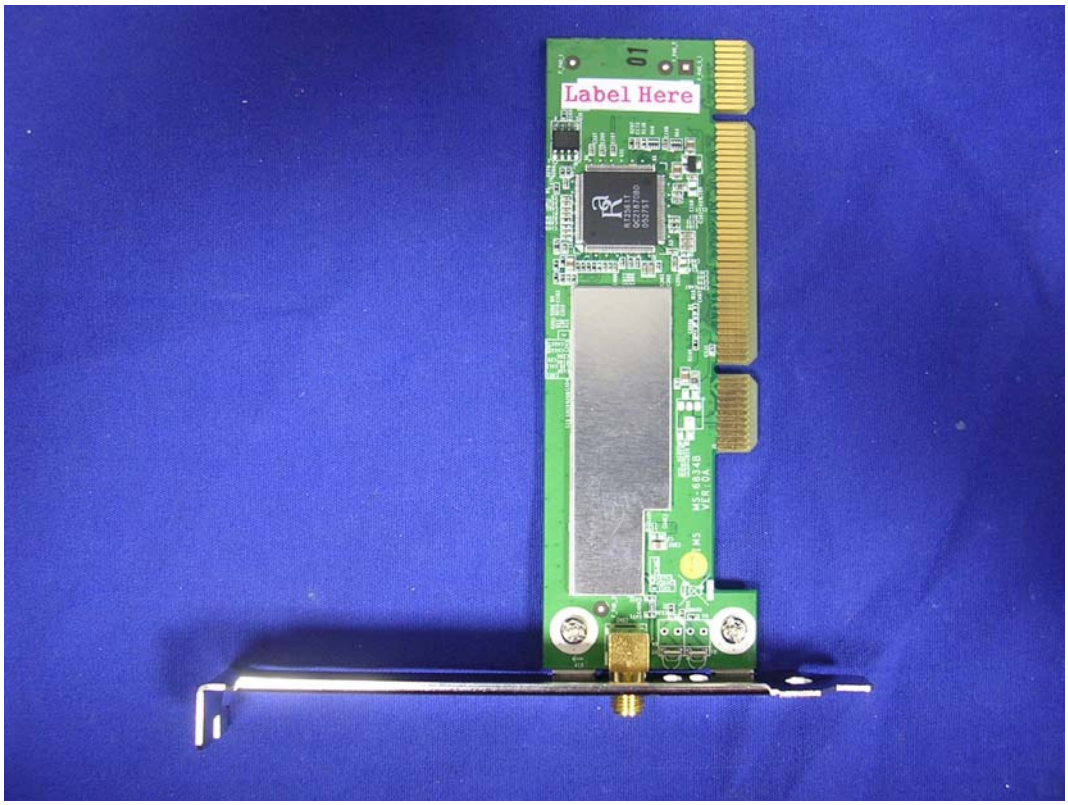


(6) EUT Photo



(7) EUT Photo

(8) EUT Photo

(9) EUT Photo

(10) EUT Photo