Test Report

Product Name : Wireless Fidelity Card

Model No. : WL-130g

FCC ID : MSQWIFIG

Applicant : ASUSTeK COMPUTER INC.

Address : 4FL., No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt : Mar. 26, 2004

Date of Test : Apr. 13, 2004

Report No. : 044L002FI

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

Test Date : Apr. 13, 2004
Report No. : 044L002FI

QuieTek Corporation

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

Product Name	: Wireless Fidelity Card
Applicant	: ASUSTeK COMPUTER INC.
Address	: 4FL., No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Manufacturer	: ASUSTeK COMPUTER INC.
Model No.	: WL-130g
Rated Voltage	: AC 120V/60Hz
Trade Name	: ASUS
Measurement Standard	: FCC CFR Title 47 Part 15 Subpart C: 2003
Measurement Procedure	: ANSI C63.4: 2001
Test Result	: Complied

NVLAP
NVLAP Lab Code: 200533-0

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Tested By : Geddy Jeng
(Geddy Jeng)

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 Fidelity Card
Trade Name	:	ASUS
Model No.	:	WL-130g
Working Voltage	:	DC 5V
FCC ID	:	MSQWIFIG
Frequency Range	:	2412MHz to 2462MHz
Channel Number	:	11
Data Speed (IEEE 802.11b)	:	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11g)	:	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Type of Modulation	:	DSSS/ OFDM
Antenna Type	:	Connector (Reverse SMA)
Antenna Gain	:	INPAQ: 2.45dBi, Golden: 2.94dBi
INPAQ Antenna	:	Shielded 80cm
Golden Antenna	:	Shielded 80cm

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. This device is a 2.4GHz Wireless Fidelity Card included a 2.4GHz receiving function, a 2.4GHz transmitting function.
2. Regards to the frequency band operation; the highest rate that was included the lowest、middle and highest frequency of channel were selected to perform the test, then shown on this report.
3. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.

1.2. Operational Description

EUT is a Wireless Fidelity Card with 11 channels. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps. The device of RF carrier is DQPSK, DB PSK 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 Fidelity 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 Fidelity 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 11Mbps CABAN ANT
Mode 1: Transmitter 54Mbps CABAN ANT
Mode 2: Transmitter 11Mbps GINCHO ANT
Mode 2: Transmitter 54Mbps GINCHO ANT

Mode 1: CABNA ANT Manufacturer is INPAQ Technology
Mode 2: GINCHO ANT Manufacturer is Golden Bridge Electech Inc.

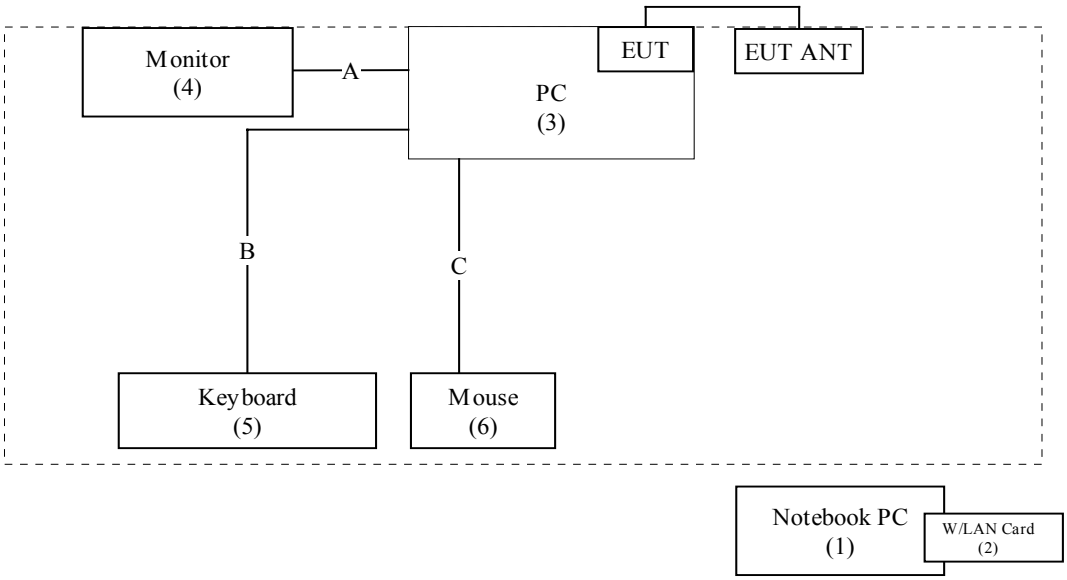
1.3. Tested System Datails

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)	Notebook PC	ASUS	S1300	26NP018680	Non-Shielded, 1.8m
(2)	W/LAN Card	LEMEL	LM-WLC030	1231Q048877	N/A
(3)	PC	COMPAQ	Evo D310	SG30801049	Non-Shielded, 1.8m
(4)	LCD TV	THOMSON	15LCDM03B SN	FRD100069	Non-Shielded, 1.8m
(5)	Keyboard	COMPAQ	KB-0133	B55940FBUOE04B	N/A
(6)	Mouse	HITACHI	PC-KM1300	N/A	N/A

Signal Cable Type		Signal cable Description
A.	VGA Cable	Shielded, 1.8m, with two ferrite cores bonded
B.	Keyboard	Shielded, 1.8m
C.	Mouse Cable	Shielded, 1.8m

1.4. Configuration of tested 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) Messages will be transmitted and received through EUT.
(5) Test is based on the mandatory continuous transmitter.
(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
ILAC MRA

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

NVLAP Lab Code: 200533-0

2. Conducted Emission

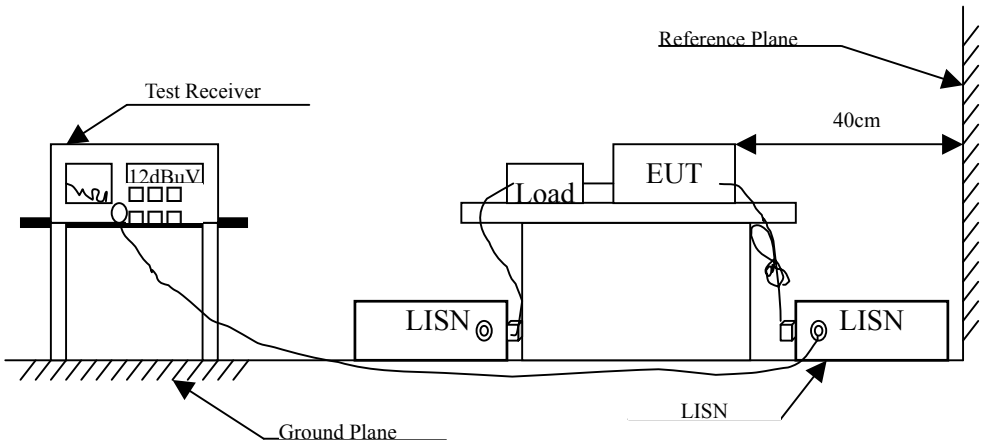
2.1. Test Equipment

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, 2003	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2003	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2003	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2003	
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 refers 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: 2001 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 Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT-CH01

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.186	0.60	0.10	46.10	46.80	64.23
	0.462	0.60	0.10	36.80	37.50	56.66
	0.786	0.60	0.10	28.30	29.00	56.00
*	4.591	0.60	0.17	38.00	38.77	56.00
	7.275	0.60	0.19	38.20	38.99	60.00
	15.466	0.88	0.36	23.30	24.54	60.00
Average						
*	0.186	0.60	0.10	44.20	44.90	54.23
	0.463	0.60	0.10	33.50	34.20	46.65
	0.786	0.60	0.10	23.40	24.10	46.00
	4.591	0.60	0.17	32.10	32.87	46.00
	7.275	0.60	0.19	29.58	30.37	50.00
	15.466	0.88	0.36	20.40	21.64	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT- CH01

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	47.70	48.40	64.26
	0.279	0.60	0.10	35.00	35.70	60.85
	0.462	0.60	0.10	38.50	39.20	56.66
	2.685	0.60	0.14	36.00	36.74	56.00
*	4.318	0.60	0.16	39.80	40.56	56.00
	7.204	0.60	0.19	40.50	41.29	60.00
Average						
*	0.186	0.60	0.10	45.20	45.90	54.23
	0.279	0.60	0.10	30.20	30.90	50.85
	0.462	0.60	0.10	33.58	34.28	46.66
	2.685	0.60	0.14	30.14	30.88	46.00
	4.318	0.60	0.16	33.24	34.00	46.00
	7.204	0.60	0.19	33.57	34.36	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT- CH06

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	47.10	47.80	64.26
	0.279	0.60	0.10	35.50	36.20	60.85
	0.463	0.60	0.10	37.60	38.30	56.65
	1.377	0.60	0.11	37.60	38.31	56.00
*	4.507	0.60	0.17	40.00	40.77	56.00
	7.270	0.60	0.19	40.80	41.59	60.00
Average						
*	0.186	0.60	0.10	44.25	44.95	54.23
	0.279	0.60	0.10	33.24	33.94	50.85
	0.463	0.60	0.10	33.14	33.84	46.65
	1.377	0.60	0.11	31.47	32.18	46.00
	4.507	0.60	0.17	32.87	33.64	46.00
	7.267	0.60	0.19	31.50	32.29	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT-CH06

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.186	0.60	0.10	47.70	48.40	64.23
	0.279	0.60	0.10	34.80	35.50	60.85
	0.467	0.60	0.10	38.60	39.30	56.57
	1.111	0.60	0.10	35.30	36.00	56.00
*	4.517	0.60	0.17	40.20	40.97	56.00
	7.267	0.60	0.19	41.00	41.79	60.00
Average						
*	0.186	0.60	0.10	44.25	44.95	54.23
	0.279	0.60	0.10	31.20	31.90	50.85
	0.462	0.60	0.10	33.25	33.95	46.66
	1.110	0.60	0.10	31.50	32.20	46.00
	4.517	0.60	0.17	32.80	33.57	46.00
	7.267	0.60	0.19	30.50	31.29	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT –CH11

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.186	0.60	0.10	46.90	47.60	64.21
	0.279	0.60	0.10	35.20	35.90	60.85
	0.462	0.60	0.10	37.40	38.10	56.66
	1.377	0.60	0.11	35.00	35.71	56.00
*	4.583	0.60	0.17	38.90	39.67	56.00
	7.134	0.60	0.19	40.70	41.49	60.00
Average						
*	0.186	0.60	0.10	42.40	43.10	54.21
	0.279	0.60	0.10	31.40	32.10	50.85
	0.462	0.60	0.10	33.14	33.84	46.66
	1.376	0.60	0.11	29.50	30.21	46.00
	4.583	0.60	0.17	32.56	33.33	46.00
	7.134	0.60	0.19	30.20	30.99	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT–CH11

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
*	0.185	0.60	0.10	47.70	48.40	64.25
	0.279	0.60	0.10	35.30	36.00	60.85
	0.462	0.60	0.10	38.70	39.40	56.66
	0.915	0.60	0.10	31.60	32.30	56.00
	4.255	0.60	0.16	39.10	39.86	56.00
	7.201	0.60	0.19	40.70	41.49	60.00
Average						
*	0.185	0.60	0.10	44.60	45.30	54.25
	0.279	0.60	0.10	31.80	32.50	50.85
	0.462	0.60	0.10	34.20	34.90	46.66
	0.915	0.60	0.10	26.50	27.20	46.00
	4.255	0.60	0.16	30.60	31.36	46.00
	7.201	0.60	0.19	33.40	34.19	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT-CH01

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	47.10	47.80	64.26
	0.279	0.60	0.10	35.50	36.20	60.85
	0.463	0.60	0.10	37.60	38.30	56.65
	1.377	0.60	0.11	37.60	38.31	56.00
*	4.507	0.60	0.17	40.00	40.77	56.00
	7.270	0.60	0.19	40.80	41.59	60.00
Average						
*	0.186	0.60	0.10	44.25	44.95	54.23
	0.279	0.60	0.10	33.24	33.94	50.85
	0.463	0.60	0.10	33.14	33.84	46.65
	1.377	0.60	0.11	31.47	32.18	46.00
	4.507	0.60	0.17	32.87	33.64	46.00
	7.267	0.60	0.19	31.50	32.29	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT- CH01

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	47.70	48.40	64.26
	0.278	0.60	0.10	36.30	37.00	60.88
	0.458	0.60	0.10	37.60	38.30	56.73
	2.224	0.60	0.13	38.50	39.23	56.00
*	4.384	0.60	0.16	39.40	40.16	56.00
	7.134	0.60	0.19	41.40	42.19	60.00
Average						
*	0.185	0.60	0.10	46.20	46.90	54.26
	0.278	0.60	0.10	33.30	34.00	50.88
	0.458	0.60	0.10	34.20	34.90	46.73
	2.224	0.60	0.13	31.80	32.53	46.00
	4.384	0.60	0.16	32.50	33.26	46.00
	7.134	0.60	0.19	32.90	33.69	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT- CH06

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
*	0.185	0.60	0.10	47.00	47.70	64.26
	0.224	0.60	0.10	36.40	37.10	62.67
	0.462	0.60	0.10	37.30	38.00	56.66
	2.224	0.60	0.13	37.30	38.03	56.00
	7.259	0.60	0.19	40.70	41.49	60.00
	12.130	0.75	0.27	40.90	41.92	60.00
Average						
*	0.185	0.60	0.10	46.00	46.70	54.26
	0.224	0.60	0.10	33.00	33.70	52.67
	0.462	0.60	0.10	34.00	34.70	46.66
	2.224	0.60	0.13	33.80	34.53	46.00
	7.259	0.60	0.19	32.50	33.29	50.00
	12.130	0.75	0.27	33.80	34.82	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT-CH06

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
*	0.185	0.60	0.10	47.80	48.50	64.26
	0.228	0.60	0.10	36.80	37.50	62.52
	0.462	0.60	0.10	38.40	39.10	56.66
	2.224	0.60	0.13	38.50	39.23	56.00
	4.446	0.60	0.16	39.40	40.16	56.00
	7.130	0.60	0.19	41.10	41.89	60.00
Average						
*	0.185	0.60	0.10	44.20	44.90	54.26
	0.228	0.60	0.10	33.20	33.90	52.52
	0.462	0.60	0.10	32.80	33.50	46.66
	2.224	0.60	0.13	31.60	32.33	46.00
	4.446	0.60	0.16	33.10	33.86	46.00
	7.130	0.60	0.19	33.50	34.29	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT –CH11

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	46.90	47.60	64.26
	0.228	0.60	0.10	36.40	37.10	62.52
	0.462	0.60	0.10	37.40	38.10	56.66
	2.224	0.60	0.13	37.30	38.03	56.00
*	4.446	0.60	0.16	39.70	40.46	56.00
	7.259	0.60	0.19	41.20	41.99	60.00
Average						
*	0.185	0.60	0.10	42.80	43.50	54.26
	0.228	0.60	0.10	32.20	32.90	52.52
	0.462	0.60	0.10	33.80	34.50	46.66
	2.224	0.60	0.13	32.50	33.23	46.00
	4.446	0.60	0.16	31.80	32.56	46.00
	7.259	0.60	0.19	33.20	33.99	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT–CH11

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	47.70	48.40	64.26
	0.224	0.60	0.10	36.60	37.30	62.67
	0.462	0.60	0.10	38.20	38.90	56.66
	2.224	0.60	0.13	38.00	38.73	56.00
*	4.446	0.60	0.16	39.80	40.56	56.00
	7.130	0.60	0.19	42.70	43.49	60.00
Average						
*	0.185	0.60	0.10	45.20	45.90	54.26
	0.224	0.60	0.10	32.80	33.50	52.67
	0.462	0.60	0.10	32.60	33.30	46.66
	2.224	0.60	0.13	34.00	34.73	46.00
	4.446	0.60	0.16	32.10	32.86	46.00
	7.130	0.60	0.19	34.50	35.29	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT–CH01

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	46.90	47.60	64.26
	0.278	0.60	0.10	34.70	35.40	60.88
	0.368	0.60	0.10	34.20	34.90	58.55
	0.458	0.60	0.10	37.60	38.30	56.73
*	4.447	0.60	0.16	39.40	40.16	56.00
	7.130	0.60	0.19	40.90	41.69	60.00
Average						
	0.185	0.60	0.10	41.80	42.50	54.26
	0.278	0.60	0.10	31.50	32.20	50.88
	0.368	0.60	0.10	29.80	30.50	48.55
	0.458	0.60	0.10	32.30	33.00	46.73
*	4.447	0.60	0.16	34.20	34.96	46.00
	7.130	0.60	0.19	31.50	32.29	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT–CH01

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	46.90	47.60	64.26
	0.228	0.60	0.10	36.40	37.10	62.52
	0.462	0.60	0.10	37.40	38.10	56.66
	2.224	0.60	0.13	37.30	38.03	56.00
*	4.446	0.60	0.16	39.70	40.46	56.00
	7.259	0.60	0.19	41.20	41.99	60.00
Average						
*	0.185	0.60	0.10	42.80	43.50	54.26
	0.228	0.60	0.10	32.20	32.90	52.52
	0.462	0.60	0.10	33.80	34.50	46.66
	2.224	0.60	0.13	32.50	33.23	46.00
	4.446	0.60	0.16	31.80	32.56	46.00
	7.259	0.60	0.19	33.20	33.99	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT–CH06

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	47.10	47.80	64.26
	0.228	0.60	0.10	36.00	36.70	62.52
	0.278	0.60	0.10	35.60	36.30	60.88
	0.462	0.60	0.10	37.40	38.10	56.66
*	4.447	0.60	0.16	39.80	40.56	56.00
	6.997	0.60	0.18	39.90	40.68	60.00
Average						
*	0.185	0.60	0.10	45.00	45.70	54.26
	0.228	0.60	0.10	33.40	34.10	52.52
	0.278	0.60	0.10	31.40	32.10	50.88
	0.462	0.60	0.10	32.20	32.90	46.66
	4.447	0.60	0.16	34.20	34.96	46.00
	6.997	0.60	0.18	31.80	32.58	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT–CH06

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	48.30	49.00	64.26
	0.228	0.60	0.10	36.20	36.90	62.52
	0.278	0.60	0.10	36.20	36.90	60.88
	0.462	0.60	0.10	37.50	38.20	56.66
*	4.446	0.60	0.16	40.20	40.96	56.00
	7.126	0.60	0.19	40.20	40.99	60.00
Average						
*	0.185	0.60	0.10	44.50	45.20	54.26
	0.228	0.60	0.10	31.30	32.00	52.52
	0.278	0.60	0.10	31.50	32.20	50.88
	0.462	0.60	0.10	32.50	33.20	46.66
	4.446	0.60	0.16	34.20	34.96	46.00
	7.126	0.60	0.19	32.80	33.59	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT–CH11

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
*	0.185	0.60	0.10	47.60	48.30	64.26
	0.228	0.60	0.10	36.40	37.10	62.52
	0.278	0.60	0.10	37.00	37.70	60.88
	0.458	0.60	0.10	37.00	37.70	56.73
	4.251	0.60	0.16	38.70	39.46	56.00
	7.325	0.60	0.19	40.00	40.79	60.00
Average						
	0.185	0.60	0.10	41.60	42.30	54.26
	0.228	0.60	0.10	31.40	32.10	52.52
	0.278	0.60	0.10	31.60	32.30	50.88
	0.458	0.60	0.10	32.50	33.20	46.73
*	4.251	0.60	0.16	34.00	34.76	46.00
	7.325	0.60	0.19	32.50	33.29	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT–CH11

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
*	0.185	0.60	0.10	48.00	48.70	64.26
	0.278	0.60	0.10	37.20	37.90	60.88
	0.462	0.60	0.10	37.50	38.20	56.66
	1.110	0.60	0.10	34.60	35.30	56.00
	4.446	0.60	0.16	39.10	39.86	56.00
	7.126	0.60	0.19	40.10	40.89	60.00
Average						
*	0.185	0.60	0.10	45.60	46.30	54.26
	0.278	0.60	0.10	33.20	33.90	50.88
	0.462	0.60	0.10	33.40	34.10	46.66
	1.110	0.60	0.10	29.60	30.30	46.00
	4.446	0.60	0.16	30.80	31.56	46.00
	7.126	0.60	0.19	32.60	33.39	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT–CH01

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	46.90	47.60	64.26
	0.224	0.60	0.10	36.13	36.83	62.67
	0.462	0.60	0.10	37.90	38.60	56.66
	1.372	0.60	0.11	35.60	36.31	56.00
*	4.446	0.60	0.16	39.00	39.76	56.00
	7.130	0.60	0.19	41.50	42.29	60.00
Average						
*	0.185	0.60	0.10	43.80	44.50	54.26
	0.224	0.60	0.10	32.30	33.00	52.67
	0.462	0.60	0.10	34.20	34.90	46.66
	1.372	0.60	0.11	31.80	32.51	46.00
	4.446	0.60	0.16	32.90	33.66	46.00
	7.130	0.60	0.19	34.00	34.79	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT–CH01

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
*	0.185	0.60	0.10	47.60	48.30	64.26
	0.278	0.60	0.10	34.40	35.10	60.88
	0.462	0.60	0.10	38.40	39.10	56.66
	1.110	0.60	0.10	35.70	36.40	56.00
	4.513	0.60	0.17	38.60	39.37	56.00
	7.259	0.60	0.19	41.40	42.19	60.00
Average						
*	0.185	0.60	0.10	45.80	46.50	54.26
	0.278	0.60	0.10	31.50	32.20	50.88
	0.462	0.60	0.10	35.60	36.30	46.66
	1.110	0.60	0.10	32.10	32.80	46.00
	4.513	0.60	0.17	32.50	33.27	46.00
	7.259	0.60	0.19	35.20	35.99	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT–CH06

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	47.80	48.50	64.26
	0.228	0.60	0.10	36.40	37.10	62.52
	0.278	0.60	0.10	35.50	36.20	60.88
	0.462	0.60	0.10	37.40	38.10	56.66
*	4.446	0.60	0.16	40.00	40.76	56.00
	7.196	0.60	0.19	39.80	40.59	60.00
Average						
*	0.185	0.60	0.10	45.90	46.60	54.26
	0.228	0.60	0.10	31.60	32.30	52.52
	0.278	0.60	0.10	32.50	33.20	50.88
	0.462	0.60	0.10	33.80	34.50	46.66
	4.446	0.60	0.16	36.50	37.26	46.00
	7.196	0.60	0.19	32.80	33.59	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT–CH06

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
*	0.185	0.60	0.10	47.80	48.50	64.26
	0.278	0.60	0.10	33.90	34.60	60.88
	0.462	0.60	0.10	38.90	39.60	56.66
	1.372	0.60	0.11	35.40	36.11	56.00
	4.446	0.60	0.16	39.40	40.16	56.00
	7.259	0.60	0.19	41.80	42.59	60.00
Average						
*	0.185	0.60	0.10	45.30	46.00	54.26
	0.278	0.60	0.10	32.70	33.40	50.88
	0.462	0.60	0.10	32.80	33.50	46.66
	1.372	0.60	0.11	31.60	32.31	46.00
	4.446	0.60	0.16	32.60	33.36	46.00
	7.259	0.60	0.19	34.30	35.09	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT–CH11

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	46.80	47.50	64.26
	0.368	0.60	0.10	34.00	34.70	58.55
	0.462	0.60	0.10	37.60	38.30	56.66
	1.372	0.60	0.11	35.30	36.01	56.00
*	4.446	0.60	0.16	39.20	39.96	56.00
	6.997	0.60	0.18	40.80	41.58	60.00
Average						
*	0.185	0.60	0.10	43.20	43.90	54.26
	0.368	0.60	0.10	32.40	33.10	48.55
	0.462	0.60	0.10	34.10	34.80	46.66
	1.372	0.60	0.11	31.90	32.61	46.00
	4.446	0.60	0.16	33.00	33.76	46.00
	6.997	0.60	0.18	34.20	34.98	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT–CH11

	Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak						
	0.185	0.60	0.10	47.80	48.50	64.26
	0.228	0.60	0.10	36.40	37.10	62.52
	0.278	0.60	0.10	35.50	36.20	60.88
	0.462	0.60	0.10	37.40	38.10	56.66
*	4.446	0.60	0.16	40.00	40.76	56.00
	7.196	0.60	0.19	39.80	40.59	60.00
Average						
*	0.185	0.60	0.10	45.90	46.60	54.26
	0.228	0.60	0.10	31.60	32.30	52.52
	0.278	0.60	0.10	32.50	33.20	50.88
	0.462	0.60	0.10	33.80	34.50	46.66
	4.446	0.60	0.16	36.50	37.26	46.00
	7.196	0.60	0.19	32.80	33.59	50.00

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable Loss.

3. Peak Power Output

3.1. Test Equipment

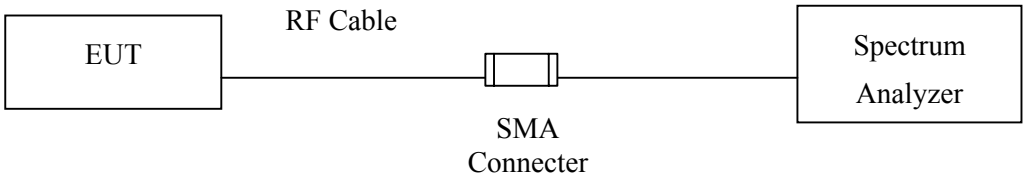
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2003

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

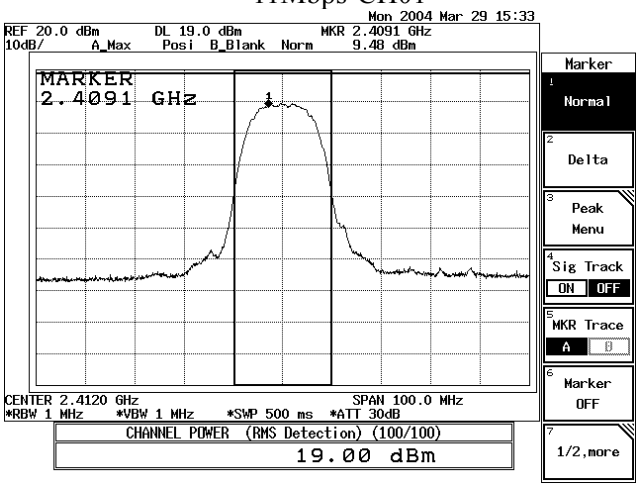
3.5. Test Result of Peak Power Output

Product : Wireless Fidelity Card
Test Item : Peak Power Output Data
Test Site : No.3OATS
Test Mode : Transmitter 11Mbps

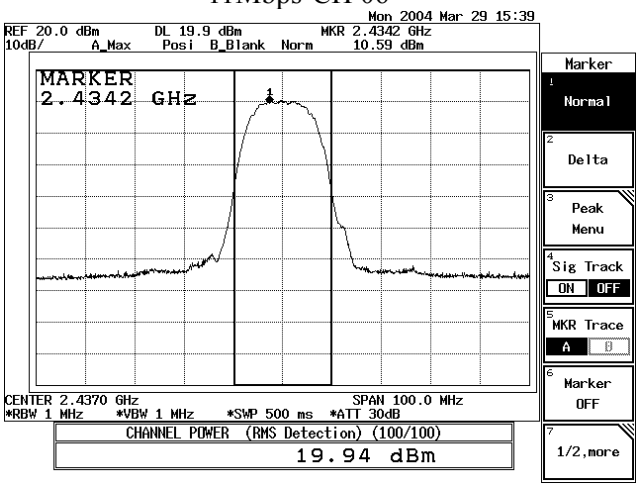
Data Speed: 11Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2409.10	19.00 dBm	1Watt= 30 dBm	Pass
6	2434.20	19.94 dBm	1Watt= 30 dBm	Pass
11	2459.20	20.07 dBm	1Watt= 30 dBm	Pass

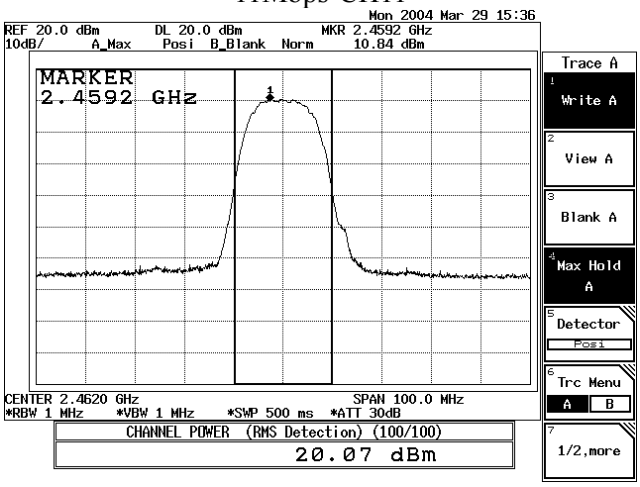
11Mbps-CH01



11Mbps-CH 06



11Mbps-CH11

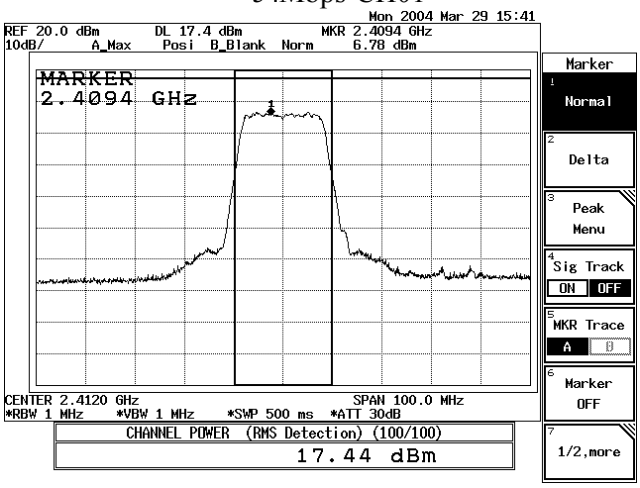


Product : Wireless Fidelity Card
Test Item : Peak Power Output Data
Test Site : No.3OATS
Test Mode : Transmitter 54Mbps

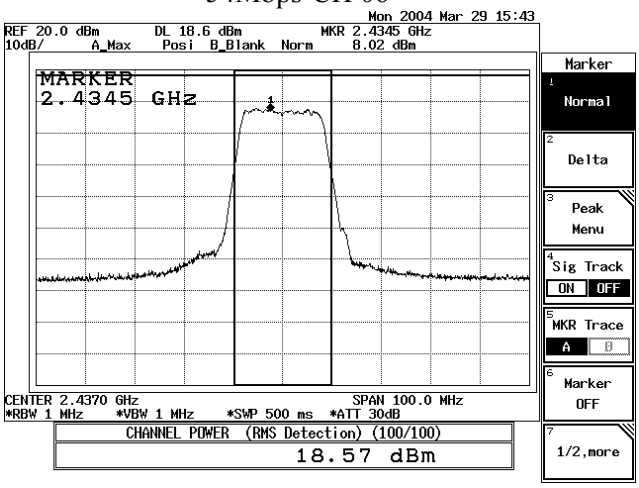
Data Speed: 54Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2409.40	17.44 dBm	1Watt= 30 dBm	Pass
6	2434.50	18.57 dBm	1Watt= 30 dBm	Pass
11	2459.60	18.78 dBm	1Watt= 30 dBm	Pass

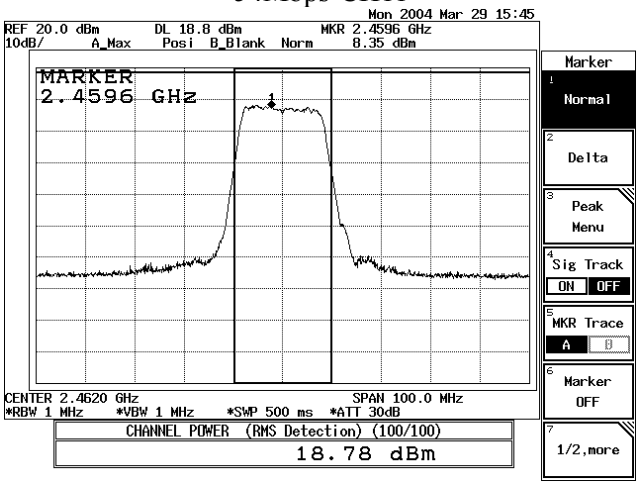
54Mbps-CH01



54Mbps-CH 06



54Mbps-CH11



4. Radiated Emission

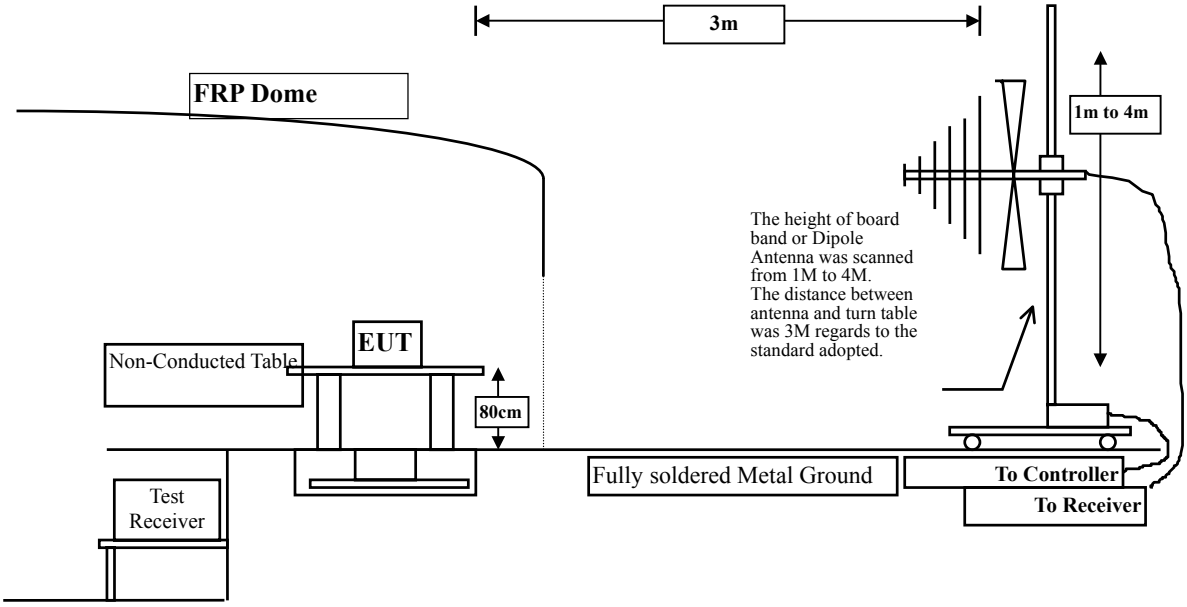
4.1. Test Equipment

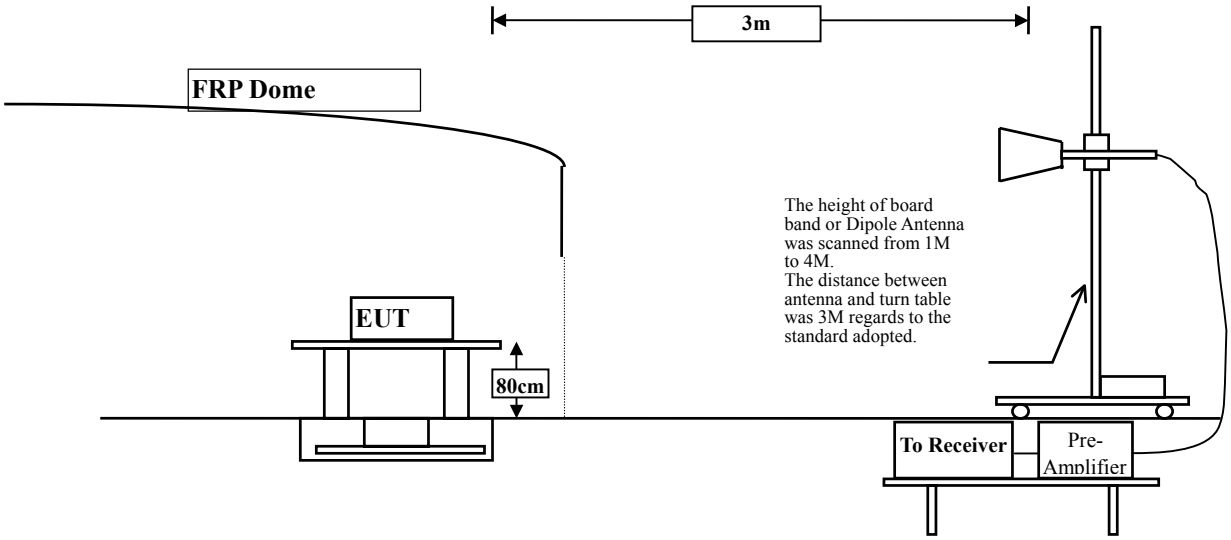
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1		Test Receiver	R & S	ESCS 30 / 825442/14	May, 2003
		Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2003
		Pre-Amplifier	HP	8447D/3307A01812	May, 2003
		Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2003
		Horn Antenna	EM	EM6917 / 103325	May, 2003
Site # 2		Test Receiver	R & S	ESCS 30 / 825442/17	May, 2003
		Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2003
		Pre-Amplifier	HP	8447D/3307A01814	May, 2003
		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2003
		Horn Antenna	EM	EM6917 / 103325	May, 2003
Site # 3	X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2003
	X	Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2003
	X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2003
	X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2003
	X	Horn Antenna	ETS	3115 / 0005-6160	Jul., 2003
	X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	Jul., 2003

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 C63.4:2001 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

4.6. Test Result of Radiated Emission

Product : Wireless Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT–CH01

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4824.000	4.23	31.21	34.68	53.37	54.13	19.87	74.00
7236.000	5.63	35.87	34.99	46.27	52.78	21.22	74.00
9648.000	7.00	37.84	35.10	45.17	54.91	19.09	74.00
12060.00	8.40	38.62	34.14	37.98	50.85	23.15	74.00
Average Detector							
4824.000	4.23	31.21	34.68	40.39	41.15	12.85	54.00
9648.000	7.00	37.84	35.10	33.33	43.07	10.93	54.00
Vertical							
Peak Detector							
4824.000	4.23	31.21	34.68	48.54	49.30	24.70	74.00
7236.000	5.63	35.87	34.99	46.48	52.99	21.01	74.00
9648.000	7.00	37.84	35.10	47.53	57.27	16.73	74.00
12060.00	8.40	38.62	34.14	37.62	50.49	23.51	74.00
Average Detector							
9648.000	7.00	37.84	35.10	39.67	49.41	4.59	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT–CH06

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4874.000	4.26	31.37	34.69	48.42	49.37	24.63	74.00
7311.000	5.67	36.00	35.01	45.14	51.80	22.20	74.00
9748.000	7.06	37.90	35.10	44.52	54.38	19.62	74.00
12185.00	8.47	38.65	34.09	37.53	50.56	23.44	74.00
Average Detector							
9748.000	7.06	37.90	35.10	33.13	42.99	11.01	54.00
Vertical							
Peak Detector							
4874.000	4.26	31.37	34.69	44.57	45.52	28.48	74.00
7311.000	5.67	36.00	35.01	44.14	50.80	23.20	74.00
9748.000	7.06	37.90	35.10	44.79	54.65	19.35	74.00
12185.00	8.47	38.65	34.09	37.73	50.76	23.24	74.00
Average Detector							
9748.000	7.06	37.90	35.10	33.33	43.19	10.81	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT–CH11

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4924.000	4.31	31.43	34.69	44.51	45.56	28.44	74.00
7386.000	5.72	36.12	35.02	43.07	49.89	24.11	74.00
9848.000	7.13	38.00	35.07	44.93	54.99	19.01	74.00
12310.00	8.53	38.68	34.03	37.62	50.80	23.20	74.00
Average Detector							
9848.000	7.13	38.00	35.07	32.91	42.97	11.03	54.00
Vertical							
Peak Detector							
4924.000	4.31	31.43	34.69	44.94	45.99	28.01	74.00
7386.000	5.72	36.12	35.02	44.38	51.20	22.80	74.00
9848.000	7.13	38.00	35.07	44.18	54.24	19.76	74.00
12310.00	8.53	38.68	34.03	37.56	50.74	23.26	74.00
Average Detector							
9848.000	7.13	38.00	35.07	32.95	43.01	10.99	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT–CH01

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4824.000	4.23	31.21	34.68	46.72	47.48	26.52	74.00
7236.000	5.63	35.87	34.99	43.67	50.18	23.82	74.00
9648.000	7.00	37.84	35.10	43.86	53.60	20.40	74.00
12060.00	8.40	38.62	34.14	37.62	50.49	23.51	74.00
Average Detector							
--							
Vertical							
Peak Detector							
4824.000	4.23	31.21	34.68	44.09	44.85	29.15	74.00
7236.000	5.63	35.87	34.99	43.89	50.40	23.60	74.00
9648.000	7.00	37.84	35.10	44.02	53.76	20.24	74.00
12060.00	8.40	38.62	34.14	37.42	50.29	23.71	74.00
Average Detector							
--							

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT–CH06

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4874.000	4.26	31.37	34.69	43.44	44.39	29.61	74.00
7311.000	5.67	36.00	35.01	42.94	49.60	24.40	74.00
9748.000	7.06	37.90	35.10	44.50	54.36	19.64	74.00
12185.00	8.47	38.65	34.09	37.92	50.95	23.05	74.00
Average Detector							
9748.000	7.06	37.90	35.10	32.97	42.83	11.17	54.00
Vertical							
Peak Detector							
4874.000	4.26	31.37	34.69	42.56	43.51	30.49	74.00
7311.000	5.67	36.00	35.01	43.26	49.92	24.08	74.00
9748.000	7.06	37.90	35.10	43.93	53.79	20.21	74.00
12185.00	8.47	38.65	34.09	37.30	50.33	23.67	74.00
Average Detector							
--							

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT–CH11

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4924.000	4.31	31.43	34.69	43.07	44.12	29.88	74.00
7386.000	5.72	36.12	35.02	43.33	50.15	23.85	74.00
9848.000	7.13	38.00	35.07	43.66	53.72	20.28	74.00
12310.00	8.53	38.68	34.03	37.56	50.74	23.26	74.00
Average Detector							
--							
Vertical							
Peak Detector							
4924.000	4.31	31.43	34.69	43.06	44.11	29.89	74.00
7386.000	5.72	36.12	35.02	43.30	50.12	23.88	74.00
9848.000	7.13	38.00	35.07	44.64	54.70	19.30	74.00
12310.00	8.53	38.68	34.03	37.04	50.22	23.78	74.00
Average Detector							
9848.000	7.13	38.00	35.07	32.91	42.97	11.03	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3OATS
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT –CH01

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4824.000	4.23	31.21	34.68	52.98	53.74	20.26	74.00
7236.000	5.63	35.87	34.99	46.69	53.20	20.80	74.00
9648.000	7.00	37.84	35.10	45.17	54.91	19.09	74.00
12060.00	8.40	38.62	34.14	37.90	50.77	23.23	74.00
Average Detector							
9648.000	7.00	37.84	35.10	33.66	43.40	10.60	54.00
Vertical							
Peak Detector							
4824.000	4.23	31.21	34.68	46.07	46.83	27.17	74.00
7236.000	5.63	35.87	34.99	44.33	50.84	23.16	74.00
9648.000	7.00	37.84	35.10	45.49	55.23	18.77	74.00
12060.00	8.40	38.62	34.14	37.64	50.51	23.49	74.00
Average Detector							
9648.000	7.00	37.84	35.10	37.67	47.41	6.59	54.00

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT –CH06

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4874.000	4.26	31.37	34.69	45.25	46.20	27.80	74.00
7311.000	5.67	36.00	35.01	43.29	49.95	24.05	74.00
9748.000	7.06	37.90	35.10	44.56	54.42	19.58	74.00
12185.00	8.47	38.65	34.09	37.32	50.35	23.65	74.00
Average Detector							
9748.000	7.06	37.90	35.10	33.43	43.29	10.71	54.00
Vertical							
Peak Detector							
4874.000	4.26	31.37	34.69	44.38	45.33	28.67	74.00
7311.000	5.67	36.00	35.01	42.85	49.51	24.49	74.00
9748.000	7.06	37.90	35.10	44.37	54.23	19.77	74.00
12185.00	8.47	38.65	34.09	37.31	50.34	23.66	74.00
Average Detector							
9748.000	7.06	37.90	35.10	33.73	43.59	10.41	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT–CH11

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4924.000	4.31	31.43	34.69	44.30	45.35	28.65	74.00
7386.000	5.72	36.12	35.02	42.91	49.73	24.27	74.00
9848.000	7.13	38.00	35.07	44.17	54.23	19.77	74.00
12310.00	8.53	38.68	34.03	37.09	50.27	23.73	74.00
Average Detector							
9848.000	7.13	38.00	35.07	33.21	43.27	10.73	54.00
Vertical							
Peak Detector							
4924.000	4.31	31.43	34.69	43.21	44.26	29.74	74.00
7386.000	5.72	36.12	35.02	43.28	50.10	23.90	74.00
9848.000	7.13	38.00	35.07	44.63	54.69	19.31	74.00
12310.00	8.53	38.68	34.03	37.48	50.66	23.34	74.00
Average Detector							
9848.000	7.13	38.00	35.07	33.21	43.27	10.73	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3OATS
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT –CH01

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4824.000	4.23	31.21	34.68	44.56	45.32	28.68	74.00
7236.000	5.63	35.87	34.99	44.33	50.84	23.16	74.00
9648.000	7.00	37.84	35.10	44.69	54.43	19.57	74.00
12060.00	8.40	38.62	34.14	38.04	50.91	23.09	74.00
Average Detector							
9648.000	7.00	37.84	35.10	33.20	42.94	11.06	54.00
Vertical							
Peak Detector							
4824.000	4.23	31.21	34.68	43.91	44.67	29.33	74.00
7236.000	5.63	35.87	34.99	44.09	50.60	23.40	74.00
9648.000	7.00	37.84	35.10	44.37	54.11	19.89	74.00
12060.00	8.40	38.62	34.14	38.06	50.93	23.07	74.00
Average Detector							
9648.000	7.00	37.84	35.10	33.45	43.19	10.81	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT –CH06

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4874.000	4.26	31.37	34.69	43.10	44.05	29.95	74.00
7311.000	5.67	36.00	35.01	43.56	50.22	23.78	74.00
9748.000	7.06	37.90	35.10	44.74	54.60	19.40	74.00
12185.00	8.47	38.65	34.09	37.48	50.51	23.49	74.00
Average Detector							
9748.000	7.06	37.90	35.10	33.64	43.50	10.50	54.00
Vertical							
Peak Detector							
4874.000	4.26	31.37	34.69	43.60	44.55	29.45	74.00
7311.000	5.67	36.00	35.01	43.32	49.98	24.02	74.00
9748.000	7.06	37.90	35.10	45.49	55.35	18.65	74.00
12185.00	8.47	38.65	34.09	37.23	50.26	23.74	74.00
Average Detector							
9748.000	7.06	37.90	35.10	33.61	43.47	10.53	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT–CH11

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
Peak Detector							
4924.000	4.31	31.43	34.69	43.14	44.19	29.81	74.00
7386.000	5.72	36.12	35.02	43.55	50.37	23.63	74.00
9848.000	7.13	38.00	35.07	43.97	54.03	19.97	74.00
12310.00	8.53	38.68	34.03	36.94	50.12	23.88	74.00
Average Detector							
9848.000	7.13	38.00	35.07	32.80	42.86	11.14	54.00
Vertical							
Peak Detector							
4924.000	4.31	31.43	34.69	42.58	43.63	30.37	74.00
7386.000	5.72	36.12	35.02	42.89	49.71	24.29	74.00
9848.000	7.13	38.00	35.07	44.50	54.56	19.44	74.00
12310.00	8.53	38.68	34.03	37.21	50.39	23.61	74.00
Average Detector							
9848.000	7.13	38.00	35.07	32.85	42.91	11.09	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
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 + Probe Factor + Cable Loss- PreAMP.
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 Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT –CH01

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
	61.040	1.03	5.29	27.84	52.40	30.87	9.13	40.00
	278.320	2.15	11.85	27.65	43.93	30.28	15.72	46.00
	339.430	2.46	13.03	27.48	40.72	28.74	17.26	46.00
	450.980	3.04	16.31	27.34	41.18	33.18	12.82	46.00
	751.680	4.59	18.60	26.90	37.54	33.83	12.17	46.00
*	880.690	5.25	19.39	27.11	40.94	38.47	7.53	46.00
Vertical:								
*	37.760	0.91	13.81	27.87	46.83	33.68	6.32	40.00
	61.040	1.03	5.25	27.84	53.24	31.67	8.33	40.00
	148.340	1.48	9.48	27.80	38.43	21.59	21.91	43.50
	224.000	1.87	9.25	27.72	37.39	20.78	25.22	46.00
	751.680	4.59	20.65	26.90	27.43	25.77	20.23	46.00
	916.580	5.44	21.37	26.90	25.60	25.50	20.50	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT –CH06

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
*	61.040	1.03	5.29	27.84	49.86	28.33	11.67	40.00
	196.840	1.73	8.20	27.75	41.74	23.92	19.58	43.50
	299.660	2.26	12.53	27.59	39.35	26.54	19.46	46.00
	466.500	3.12	16.56	27.34	37.62	29.96	16.04	46.00
	601.330	3.81	17.66	26.96	35.52	30.03	15.97	46.00
	654.680	4.09	18.58	26.89	33.59	29.37	16.63	46.00
Vertical:								
*	62.010	1.03	5.58	27.84	52.40	31.17	8.83	40.00
	124.090	1.35	10.23	27.87	43.03	26.74	16.76	43.50
	286.080	2.19	12.15	27.61	43.21	29.94	16.06	46.00
	408.300	2.82	17.14	27.38	36.03	28.62	17.38	46.00
	450.980	3.04	16.91	27.34	34.02	26.63	19.37	46.00
	601.330	3.81	19.56	26.96	30.09	26.50	19.50	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT –CH011

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
	44.550	0.94	10.56	27.88	48.39	32.02	7.98	40.00
	61.040	1.03	5.29	27.84	50.08	28.56	11.44	40.00
	361.740	2.58	13.60	27.51	45.31	33.98	12.02	46.00
*	388.900	2.72	14.09	27.47	50.89	40.22	5.78	46.00
	498.510	3.28	16.34	27.23	44.01	36.41	9.59	46.00
	926.280	5.49	20.21	26.92	37.19	35.96	10.04	46.00
Vertical:								
*	34.850	0.89	16.04	27.84	46.59	35.68	4.32	40.00
	286.080	2.19	12.15	27.61	41.16	27.89	18.11	46.00
	311.300	2.32	12.40	27.51	41.69	28.89	17.11	46.00
	434.490	2.95	17.29	27.34	34.29	27.19	18.81	46.00
	499.480	3.29	16.34	27.21	36.78	29.20	16.80	46.00
	601.330	3.81	19.56	26.96	32.68	29.09	16.91	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT –CH01

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
	62.010	1.03	5.45	27.84	51.29	29.93	10.07	40.00
	248.250	1.99	11.46	27.68	44.67	30.45	15.55	46.00
	298.690	2.25	12.53	27.59	39.99	27.18	18.82	46.00
	450.980	3.04	16.31	27.34	38.47	30.47	15.53	46.00
	525.670	3.42	16.46	27.03	38.41	31.27	14.73	46.00
*	804.060	4.86	19.21	26.86	39.47	36.67	9.33	46.00
Vertical:								
*	61.040	1.03	5.25	27.84	52.96	31.39	8.61	40.00
	120.210	1.33	10.36	27.84	41.02	24.87	18.63	43.50
	224.000	1.87	9.25	27.72	37.24	20.64	25.36	46.00
	416.060	2.86	17.74	27.38	35.90	29.11	16.89	46.00
	552.830	3.56	18.97	26.99	35.91	31.46	14.54	46.00
	587.750	3.74	19.61	27.07	31.00	27.27	18.73	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT –CH06

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
	61.040	1.03	5.29	27.84	50.30	28.78	11.22	40.00
	97.900	1.22	10.98	27.88	49.42	33.74	9.76	43.50
	170.650	1.59	8.93	27.75	46.05	28.82	14.68	43.50
*	385.020	2.70	13.94	27.49	48.46	37.60	8.40	46.00
	738.100	4.52	18.53	26.87	39.06	35.24	10.76	46.00
	971.870	5.72	20.49	27.13	37.27	36.35	17.65	54.00
Vertical:								
*	62.010	1.03	5.58	27.84	52.09	30.86	9.14	40.00
	124.090	1.35	10.23	27.87	41.70	25.41	18.09	43.50
	321.970	2.37	12.66	27.49	40.98	28.53	17.47	46.00
	450.010	3.03	16.91	27.33	37.45	30.06	15.94	46.00
	480.080	3.19	16.40	27.30	37.47	29.75	16.25	46.00
	601.330	3.81	19.56	26.96	31.85	28.27	17.73	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT –CH011

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
*	62.010	1.03	5.45	27.84	50.73	29.37	10.63	40.00
	299.660	2.26	12.53	27.59	39.27	26.46	19.54	46.00
	368.530	2.61	14.21	27.53	39.27	28.56	17.44	46.00
	421.880	2.89	15.82	27.35	38.85	30.20	15.80	46.00
	453.890	3.05	16.34	27.31	40.13	32.21	13.79	46.00
	475.230	3.16	16.86	27.35	41.13	33.80	12.20	46.00
Vertical:								
*	45.520	0.95	8.26	27.88	53.96	35.29	4.71	40.00
	61.040	1.03	5.25	27.84	52.68	31.11	8.89	40.00
	122.150	1.34	10.96	27.84	40.05	24.52	18.98	43.50
	259.890	2.05	13.10	27.65	39.86	27.36	18.64	46.00
	312.270	2.32	12.33	27.51	43.76	30.90	15.10	46.00
	601.330	3.81	19.56	26.96	30.52	26.94	19.06	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT –CH01

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
*	31.940	0.88	17.19	27.80	40.23	30.50	9.50	40.00
	61.040	1.03	5.29	27.84	50.96	29.44	10.56	40.00
	295.780	2.24	12.35	27.61	39.87	26.85	19.15	46.00
	450.980	3.04	16.31	27.34	35.41	27.41	18.59	46.00
	748.770	4.57	18.49	26.91	39.22	35.38	10.62	46.00
	761.380	4.64	19.64	26.88	37.11	34.51	11.49	46.00
Vertical:								
*	52.310	0.98	6.39	27.81	56.59	36.16	3.84	40.00
	120.210	1.33	10.36	27.84	41.59	25.44	18.06	43.50
	358.830	2.56	14.15	27.52	37.63	26.83	19.17	46.00
	405.390	2.80	17.02	27.39	35.97	28.40	17.60	46.00
	504.330	3.31	16.50	27.11	37.05	29.75	16.25	46.00
	635.280	3.99	18.28	26.83	32.46	27.90	18.10	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT –CH06

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
*	61.040	1.03	5.29	27.84	51.72	30.19	9.81	40.00
	107.600	1.27	12.09	27.82	40.39	25.93	17.57	43.50
	266.680	2.09	12.24	27.63	40.50	27.20	18.80	46.00
	300.630	2.26	12.46	27.59	39.68	26.81	19.19	46.00
	440.310	2.98	15.61	27.32	39.18	30.46	15.54	46.00
	751.680	4.59	18.60	26.90	35.74	32.03	13.97	46.00
Vertical:								
*	61.040	1.03	5.25	27.84	53.03	31.46	8.54	40.00
	124.090	1.35	10.23	27.87	43.03	26.74	16.76	43.50
	376.290	2.65	14.71	27.51	37.30	27.16	18.84	46.00
	432.550	2.94	17.36	27.34	39.80	32.77	13.23	46.00
	539.250	3.49	17.95	26.98	35.76	30.21	15.79	46.00
	742.950	4.54	20.80	26.88	28.32	26.78	19.22	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT –CH11

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
*	61.040	1.03	5.29	27.84	52.19	30.67	9.33	40.00
	239.520	1.95	10.42	27.68	47.89	32.58	13.42	46.00
	250.190	2.00	11.81	27.66	43.53	29.67	16.33	46.00
	299.660	2.26	12.53	27.59	40.05	27.24	18.76	46.00
	325.850	2.39	12.26	27.49	40.90	28.07	17.93	46.00
	563.500	3.62	17.03	27.06	38.12	31.70	14.30	46.00
Vertical:								
*	61.040	1.03	5.25	27.84	52.51	30.94	9.06	40.00
	121.180	1.34	10.66	27.84	40.27	24.43	19.07	43.50
	293.840	2.23	12.22	27.61	40.06	26.90	19.10	46.00
	312.270	2.32	12.33	27.51	40.20	27.35	18.65	46.00
	421.880	2.89	17.60	27.35	34.03	27.17	18.83	46.00
	487.840	3.23	16.50	27.28	34.27	26.71	19.29	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT –CH01

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
*	62.010	1.03	5.45	27.84	51.55	30.18	9.82	40.00
	104.690	1.25	11.71	27.80	45.11	30.28	13.22	43.50
	299.660	2.26	12.53	27.59	39.82	27.01	18.99	46.00
	365.620	2.60	13.96	27.52	42.01	31.05	14.95	46.00
	450.980	3.04	16.31	27.34	36.85	28.85	17.15	46.00
	775.930	4.71	18.91	26.91	36.09	32.81	13.19	46.00
Vertical:								
*	39.700	0.92	12.54	27.88	48.43	34.01	5.99	40.00
	125.060	1.36	10.19	27.87	42.59	26.27	17.23	43.50
	137.670	1.42	10.30	27.80	48.31	32.23	11.27	43.50
	362.710	2.58	14.51	27.51	43.87	33.46	12.54	46.00
	536.340	3.48	17.61	27.01	36.70	30.78	15.22	46.00
	636.250	3.99	18.40	26.83	34.53	30.09	15.91	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT –CH06

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
*	62.010	1.03	5.45	27.84	49.94	28.57	11.43	40.00
	103.720	1.25	12.03	27.80	43.69	29.17	14.33	43.50
	299.660	2.26	12.53	27.59	39.40	26.60	19.40	46.00
	450.980	3.04	16.31	27.34	36.38	28.38	17.62	46.00
	581.930	3.71	18.07	27.09	35.48	30.18	15.82	46.00
	745.860	4.56	18.27	26.89	36.67	32.61	13.39	46.00
Vertical:								
*	36.790	0.90	14.48	27.87	44.68	32.20	7.80	40.00
	57.160	1.01	5.55	27.84	53.28	32.00	8.00	40.00
	122.150	1.34	10.96	27.84	41.49	25.96	17.54	43.50
	382.110	2.68	14.88	27.49	39.23	29.30	16.70	46.00
	555.740	3.58	18.99	27.00	34.23	29.80	16.20	46.00
	686.690	4.25	17.90	26.97	35.50	30.68	15.32	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : Wireless Fidelity Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT –CH11

	Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal:								
*	62.010	1.03	5.45	27.84	50.76	29.39	10.61	40.00
	268.620	2.10	12.07	27.63	41.35	27.89	18.11	46.00
	300.630	2.26	12.46	27.59	39.84	26.97	19.03	46.00
	450.980	3.04	16.31	27.34	35.99	27.99	18.01	46.00
	533.430	3.46	16.62	27.01	36.11	29.19	16.81	46.00
	751.680	4.59	18.60	26.90	35.75	32.04	13.96	46.00
Vertical:								
*	33.880	0.89	17.04	27.84	46.33	36.41	3.59	40.00
	124.090	1.35	10.23	27.87	42.52	26.23	17.27	43.50
	373.380	2.64	14.67	27.52	41.49	31.27	14.73	46.00
	510.150	3.34	16.66	27.07	37.23	30.16	15.84	46.00
	670.200	4.17	17.66	26.96	36.31	31.17	14.83	46.00
	844.800	5.07	18.88	26.98	35.63	32.59	13.41	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss.

5. Band Edge

5.1. Test Equipment

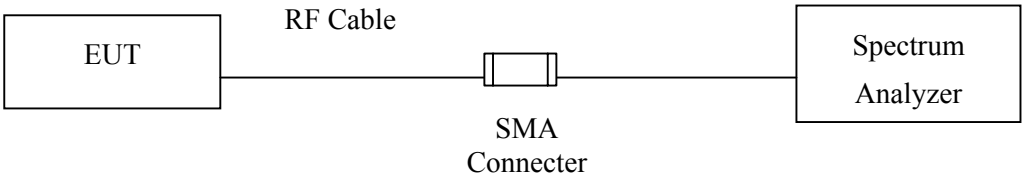
The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2003
X	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2003
X	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2003
X	Pre-Amplifier	HP	8447D/3307A01812	May, 2003
X	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2003
X	Horn Antenna	EM	EM6917 / 103325	May, 2003

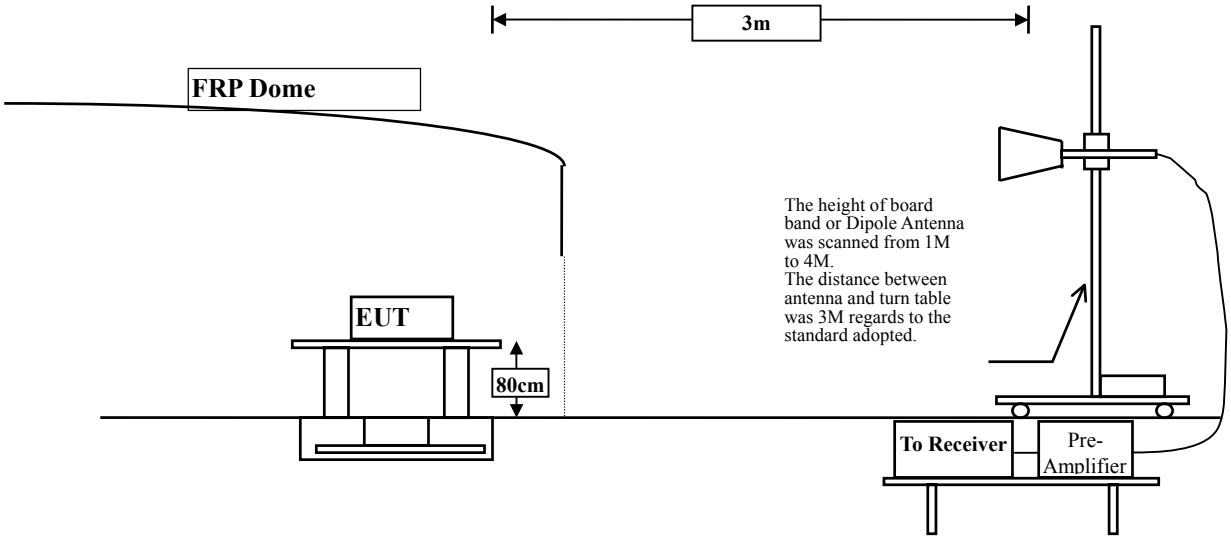
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

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 C63.4:2001on 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 is defined as ± 1 MHz

5.6. Test Result of Band Edge

Product : Wireless Fidelity Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT

RF Radiated Measurement:

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

Figure Channel 1: (Horizontal)

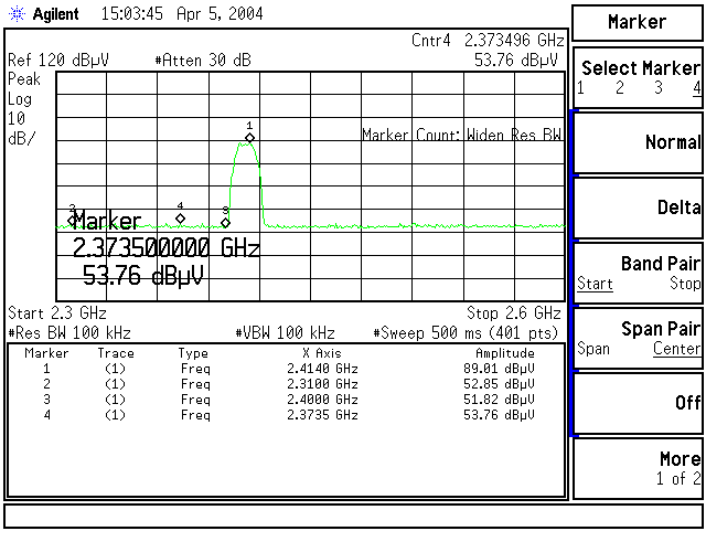
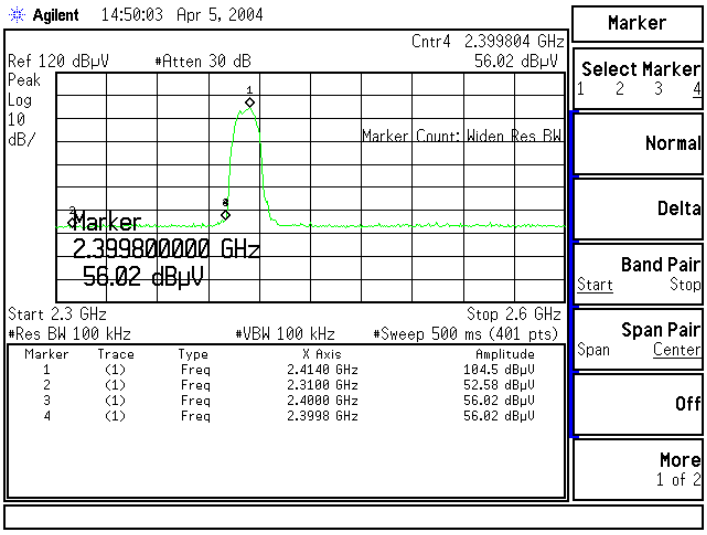


Figure Channel 1: (Vertical)



Product : Wireless Fidelity Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 11Mbps CABAN ANT

RF Radiated Measurement (Peak):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Horizontal)	2498.000	53.73	49.18	74.00	54.00	Pass
11(Vertical)	2492.800	53.72	49.17	74.00	54.00	Pass

RF Radiated Measurement (Average):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Horizontal)	--	--	--	74.00	54.00	Pass
11(Vertical)	--	--	--	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

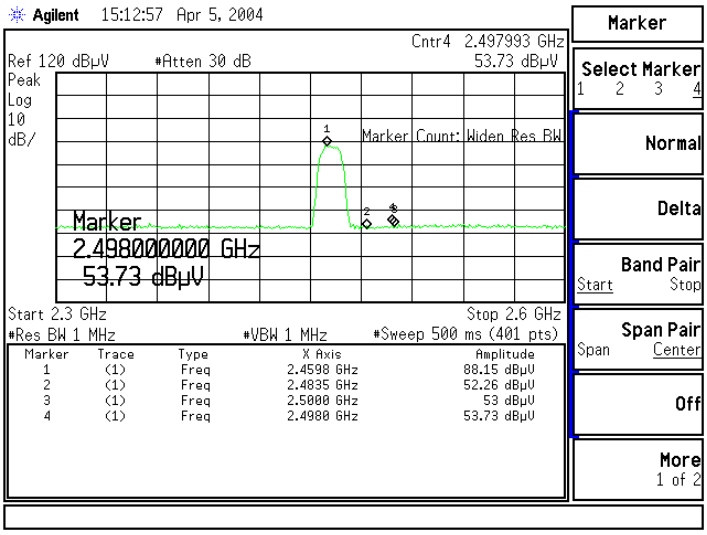
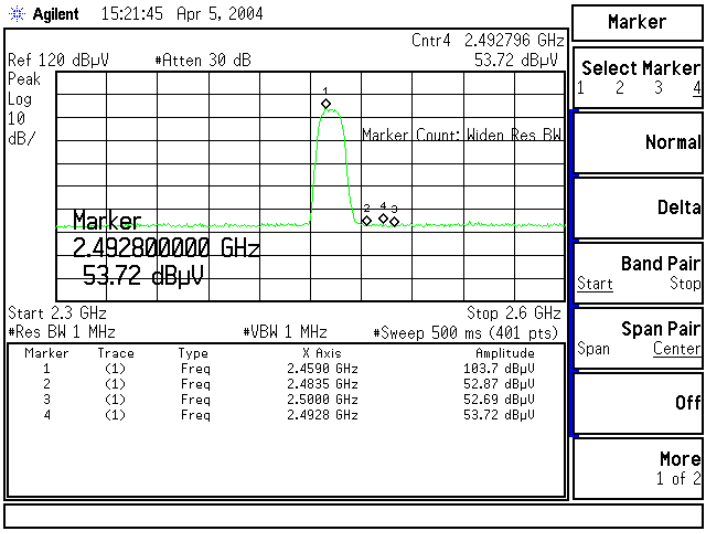


Figure Channel 11: (Vertical)



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.

Product : Wireless Fidelity Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT

RF Radiated Measurement:

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

Figure Channel 1: (Horizontal)

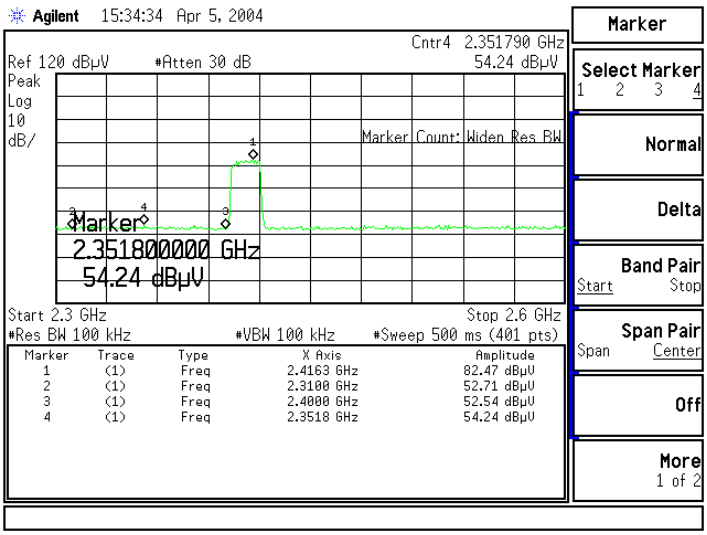
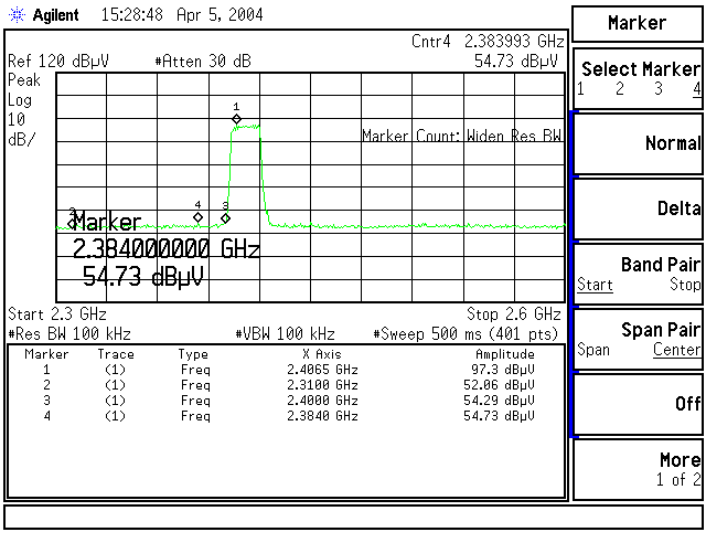


Figure Channel 1: (Vertical)



Product : Wireless Fidelity Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 54Mbps CABAN ANT

RF Radiated Measurement (Peak):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Horizontal)	2484.500	53..94	49.39	74.00	54.00	Pass
11(Vertical)	2487.500	54.13	49.58	74.00	54.00	Pass

RF Radiated Measurement (Average):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Horizontal)	--	--	--	74.00	54.00	Pass
11(Vertical)	--	--	--	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

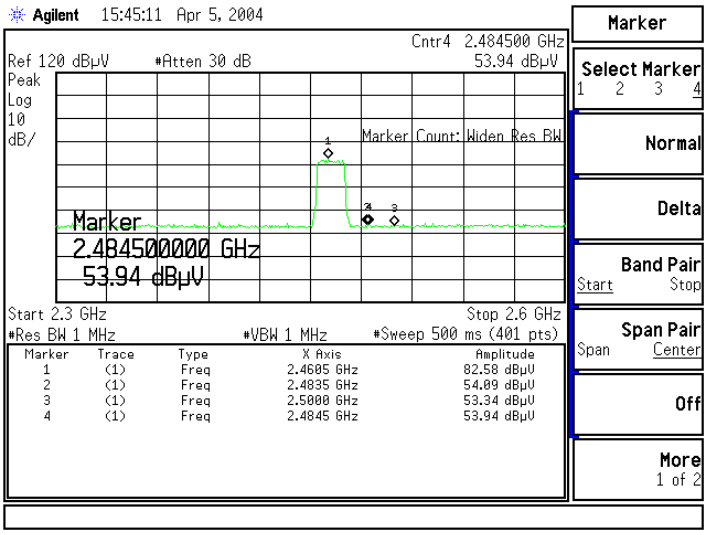
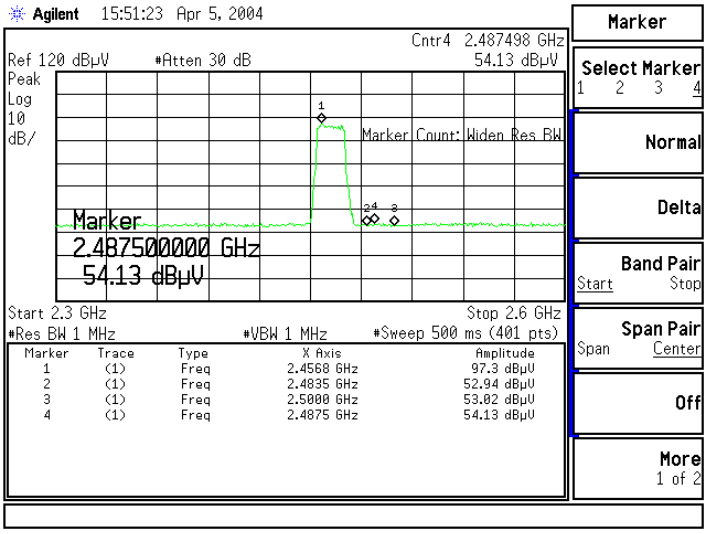


Figure Channel 11: (Vertical)



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.

Product : Wireless Fidelity Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT

RF Radiated Measurement:

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

Figure Channel 1: (Horizontal)

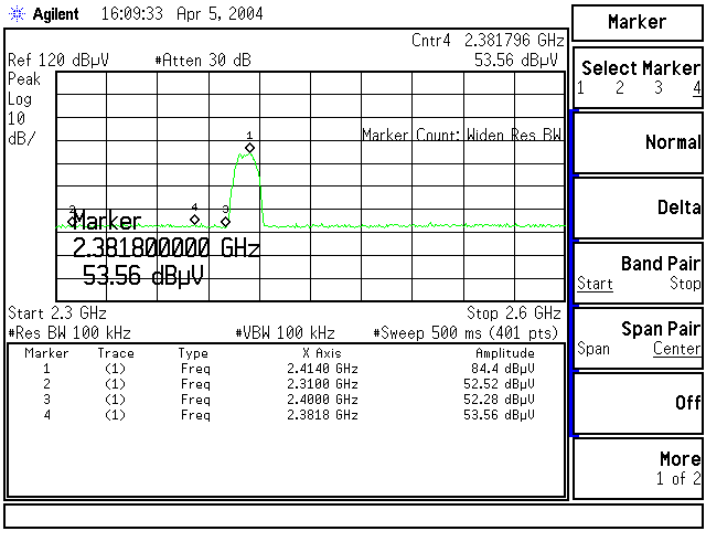
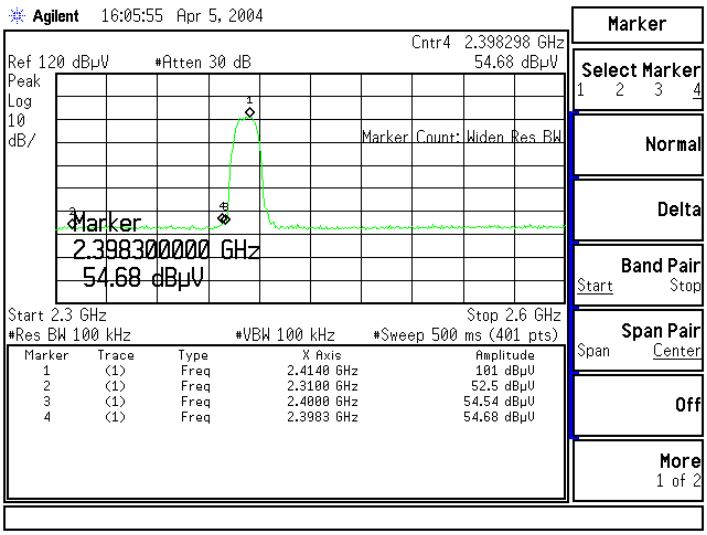


Figure Channel 1: (Vertical)



Product : Wireless Fidelity Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 11Mbps GINCHO ANT

RF Radiated Measurement(Peak):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Horizontal)	2486.000	53.85	49.30	74.00	54.00	Pass
11(Vertical)	2495.000	53.47	48.92	74.00	54.00	Pass

RF Radiated Measurement (Average):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Horizontal)	--	--	--	74.00	54.00	Pass
11(Vertical)	--	--	--	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

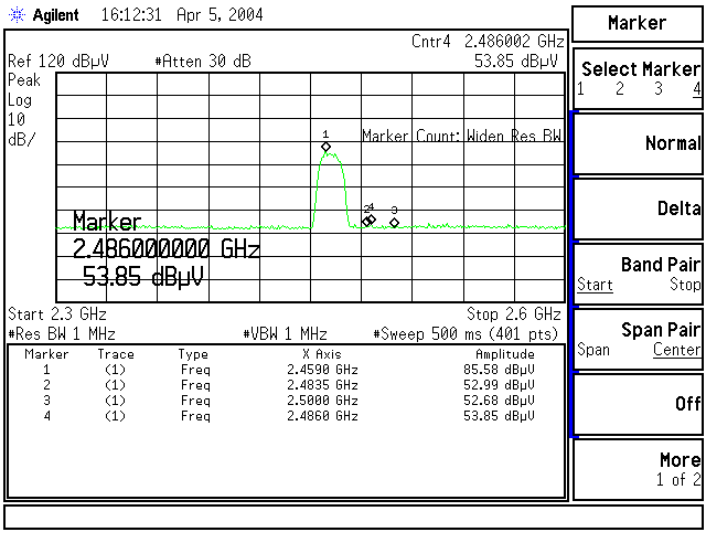
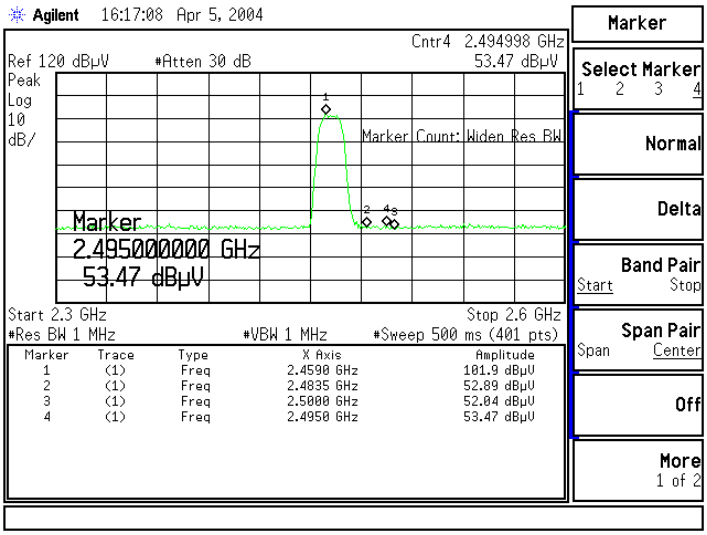


Figure Channel 11: (Vertical)



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.

Product : Wireless Fidelity Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT

RF Radiated Measurement:

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

Figure Channel 1: (Horizontal)

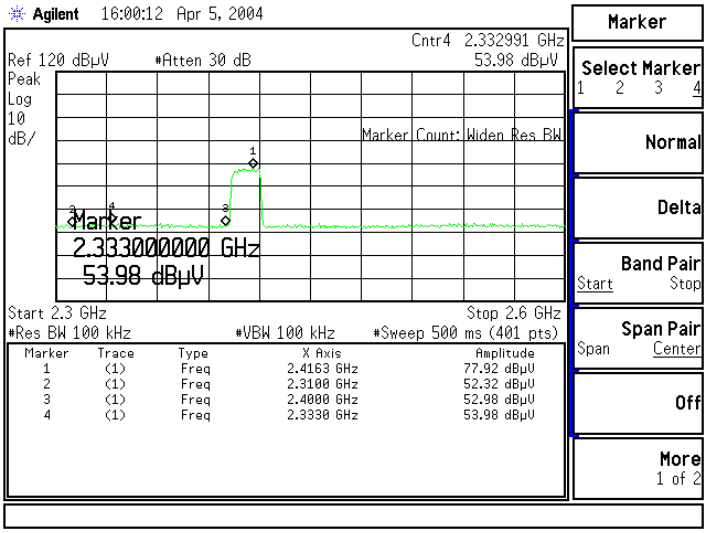
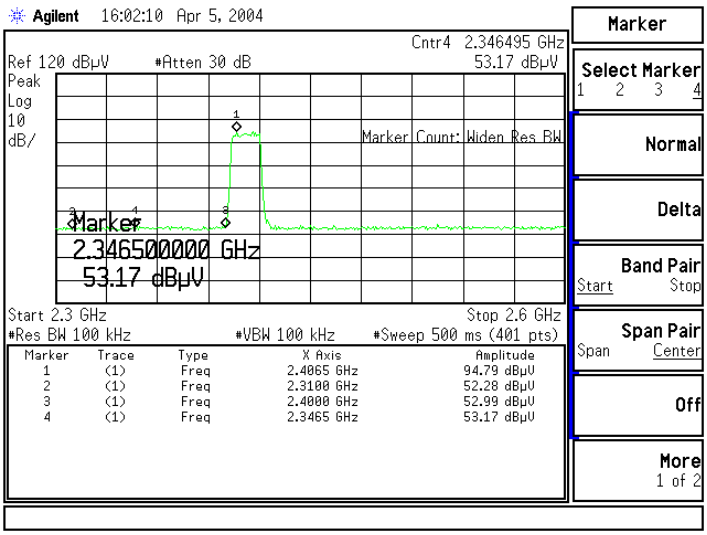


Figure Channel 1: (Vertical)



Product : Wireless Fidelity Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 54Mbps GINCHO ANT

RF Radiated Measurement(Peak):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Horizontal)	2485.300	52.69	48.14	74.00	54.00	Pass
11(Vertical)	2492.800	53.15	48.60	74.00	54.00	Pass

RF Radiated Measurement (Average):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Arerage Limit (dBuV/m)	Result
11(Horizontal)	--	--	--	74.00	54.00	Pass
11(Vertical)	--	--	--	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

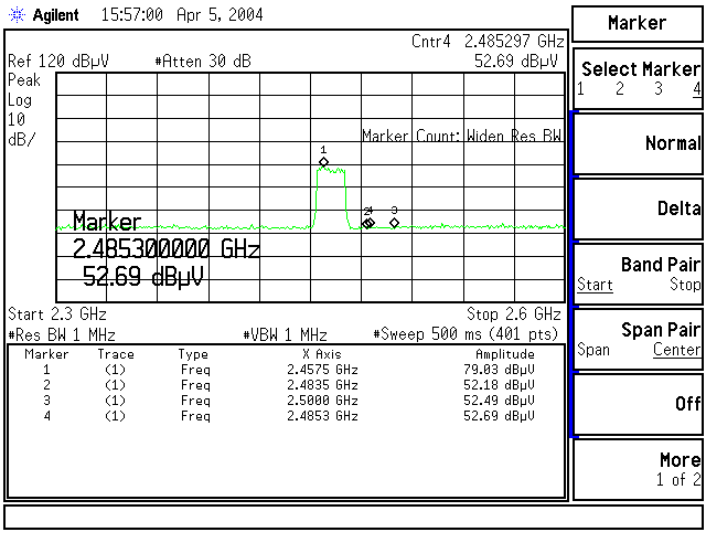
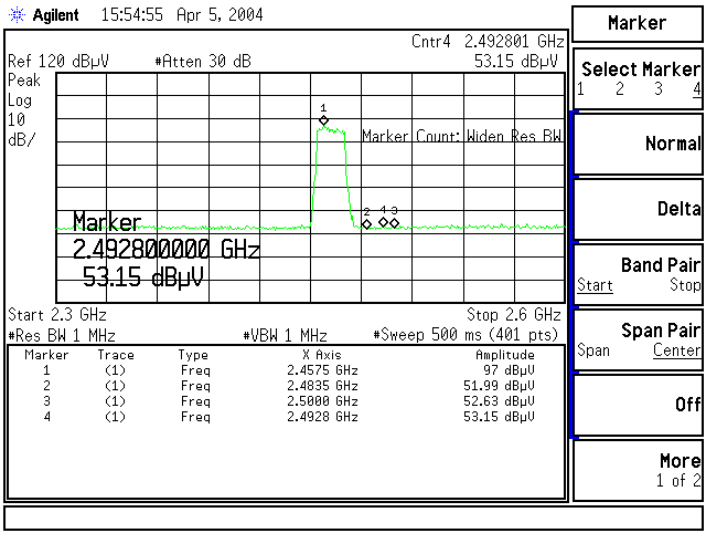


Figure Channel 11: (Vertical)



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

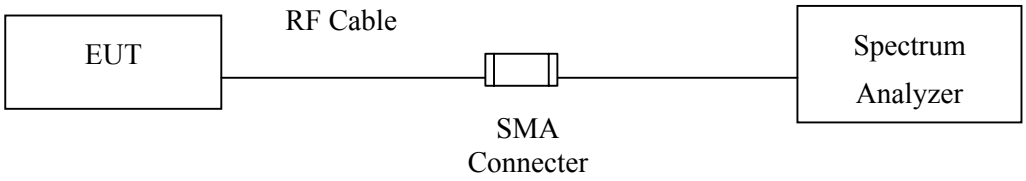
6.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3162 /100803480	May, 2003

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

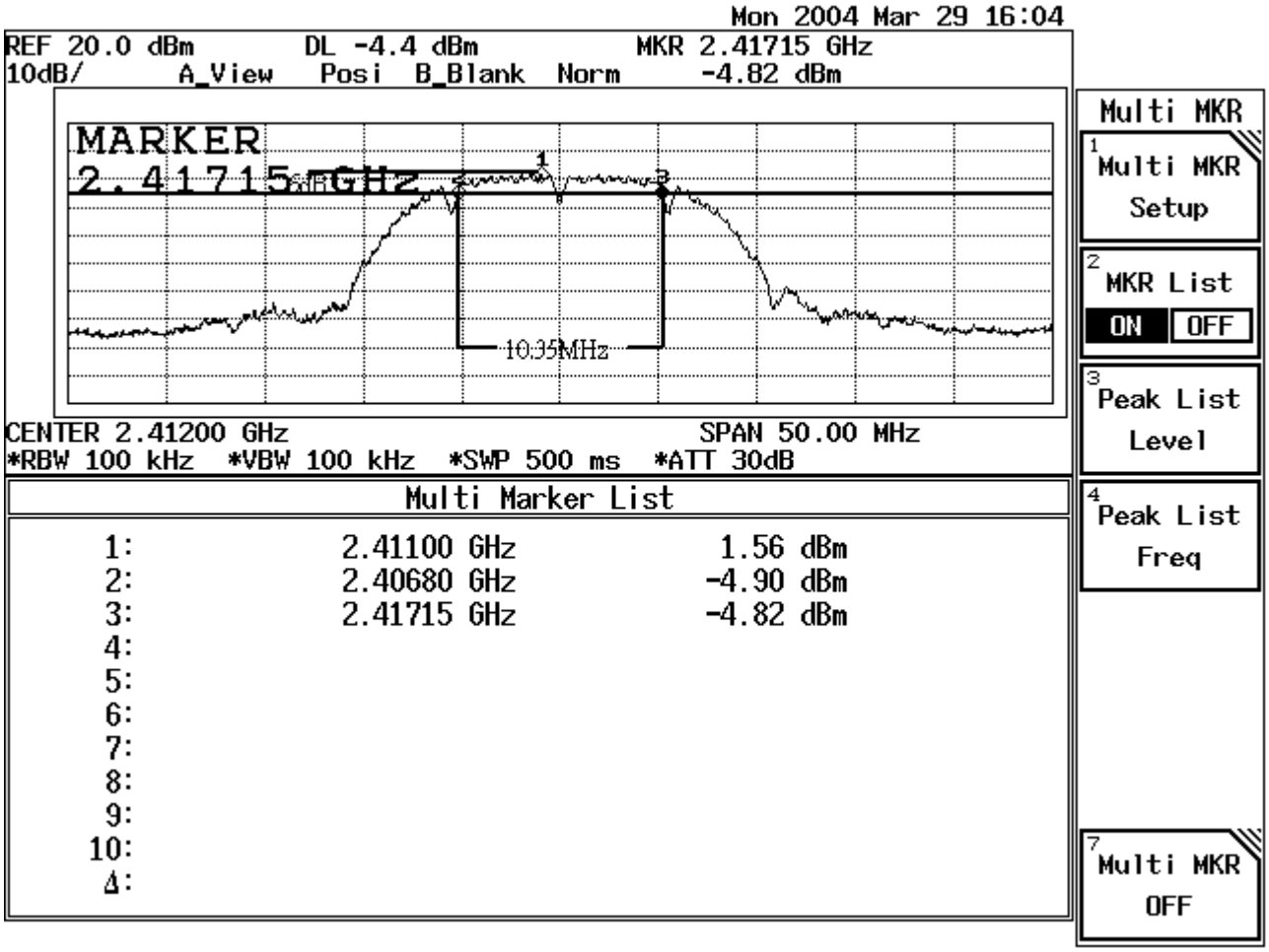
The measurement uncertainty is defined as ± 1.27 dB

6.5. Test Result of Occupied Bandwidth

Product : Wireless Fidelity Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Transmitter 11Mbps (Channel 1)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (11Mbps)	2411.00	10350	>500	Pass

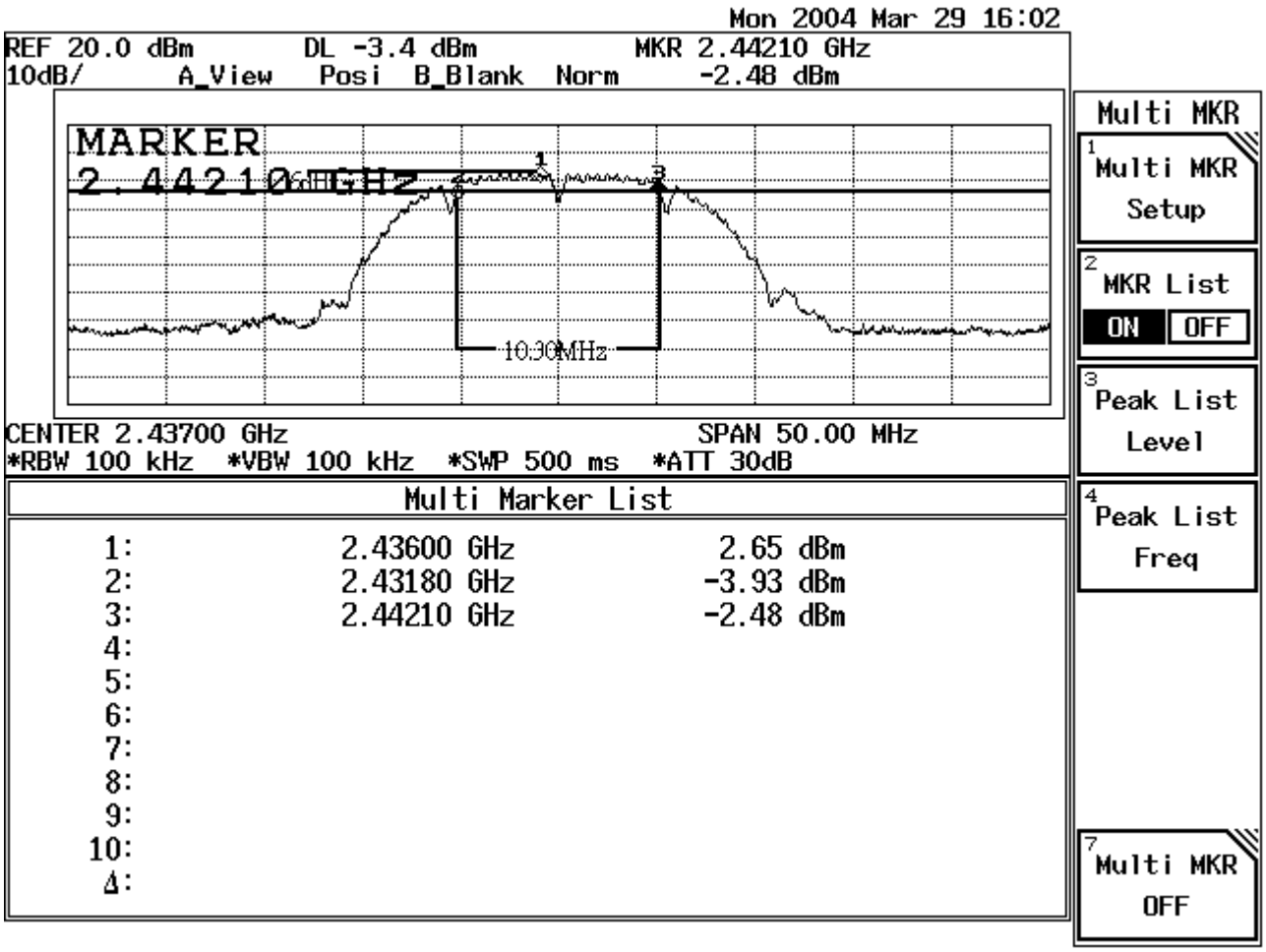
Figure Channel 1: 11Mbps



Product : Wireless Fidelity Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Transmitter 11Mbps (Channel 6)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (11Mbps)	2436.00	10300	>500	Pass

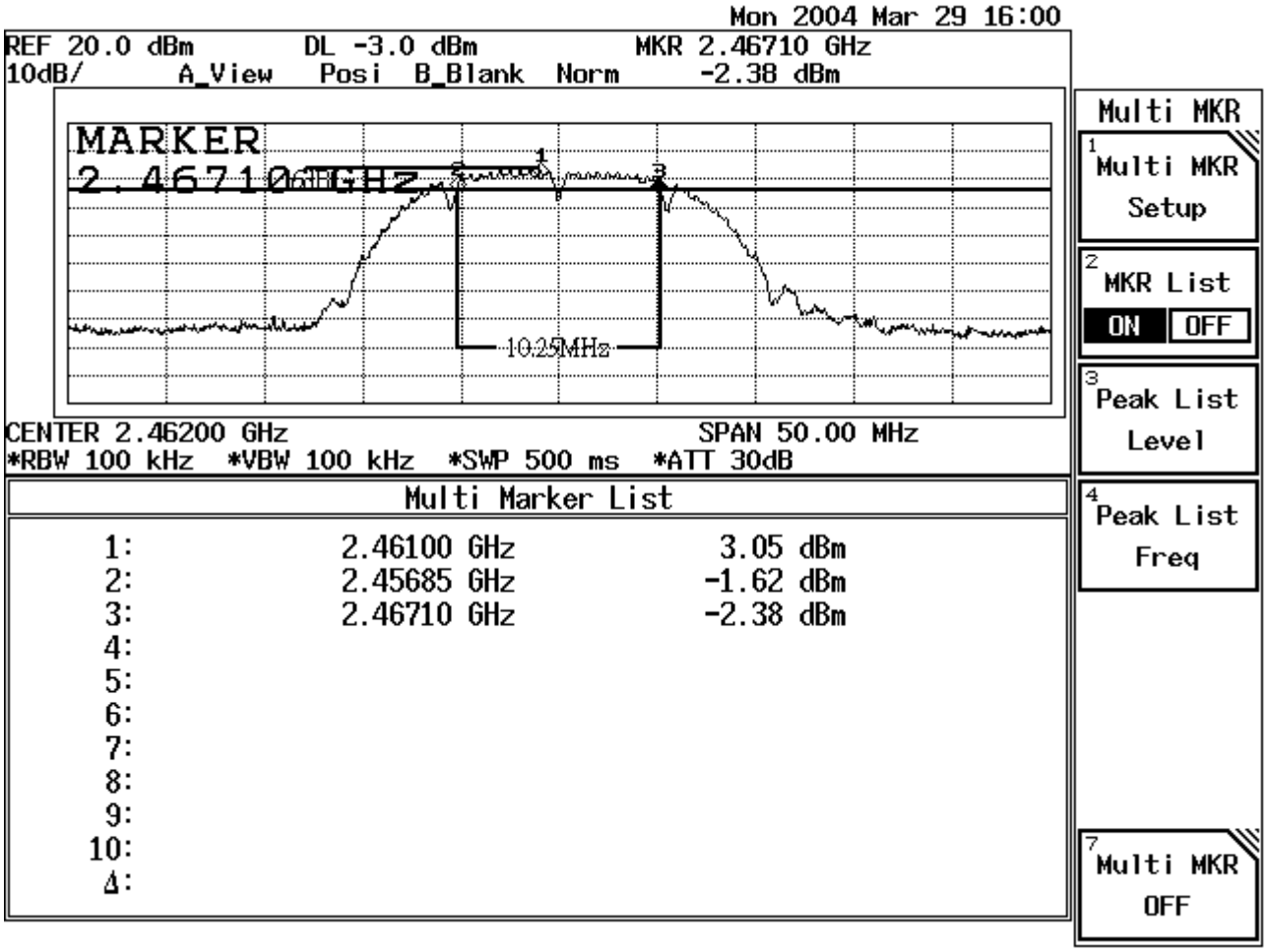
Figure Channel 6: 11Mbps



Product : Wireless Fidelity Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Transmitter 11Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (11Mbps)	2461.00	10250	>500	Pass

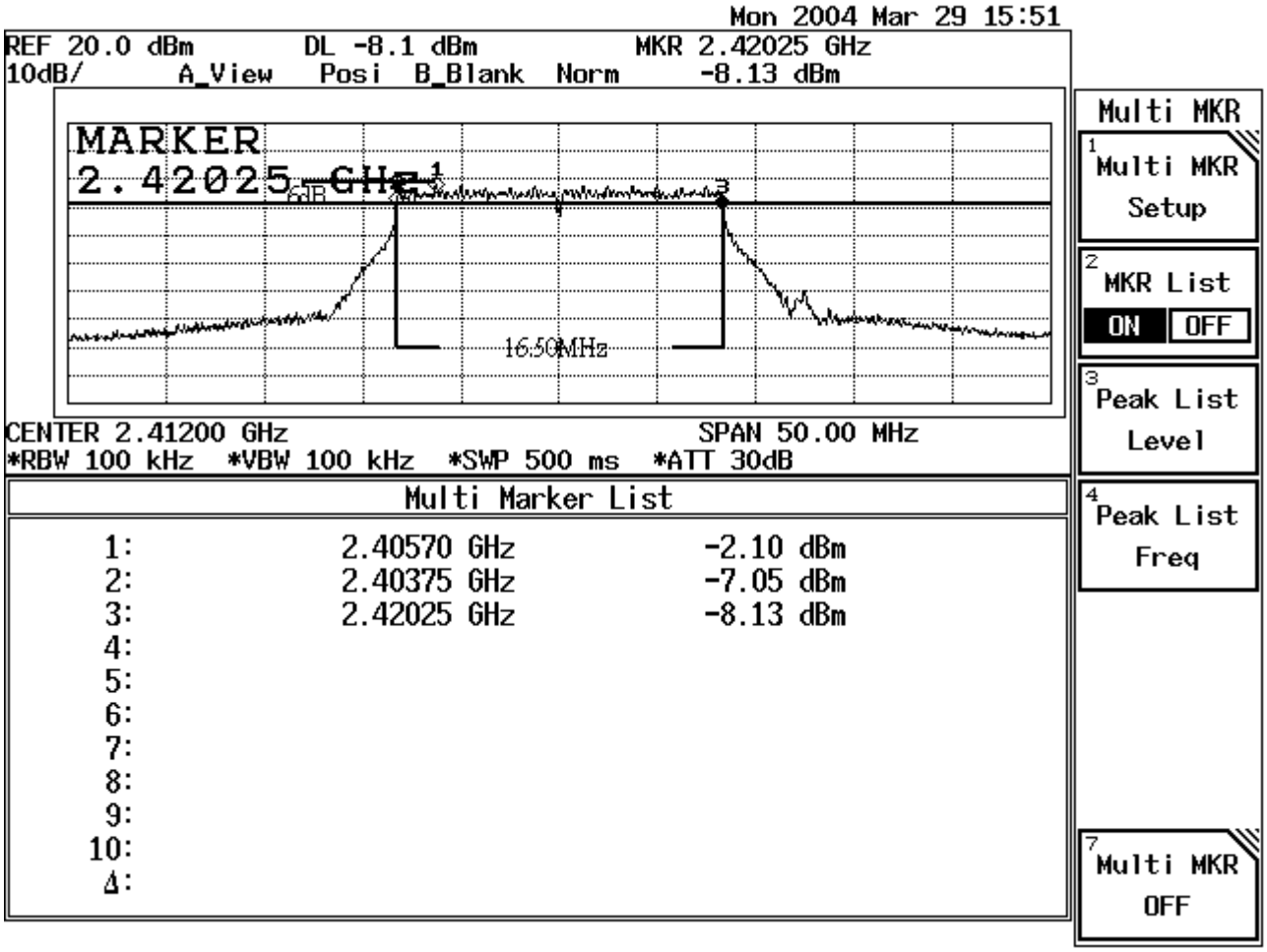
Figure Channel 11: 11Mbps



Product : Wireless Fidelity Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Transmitter 54Mbps (Channel 1)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (54Mbps)	2405.70	16500	>500	Pass

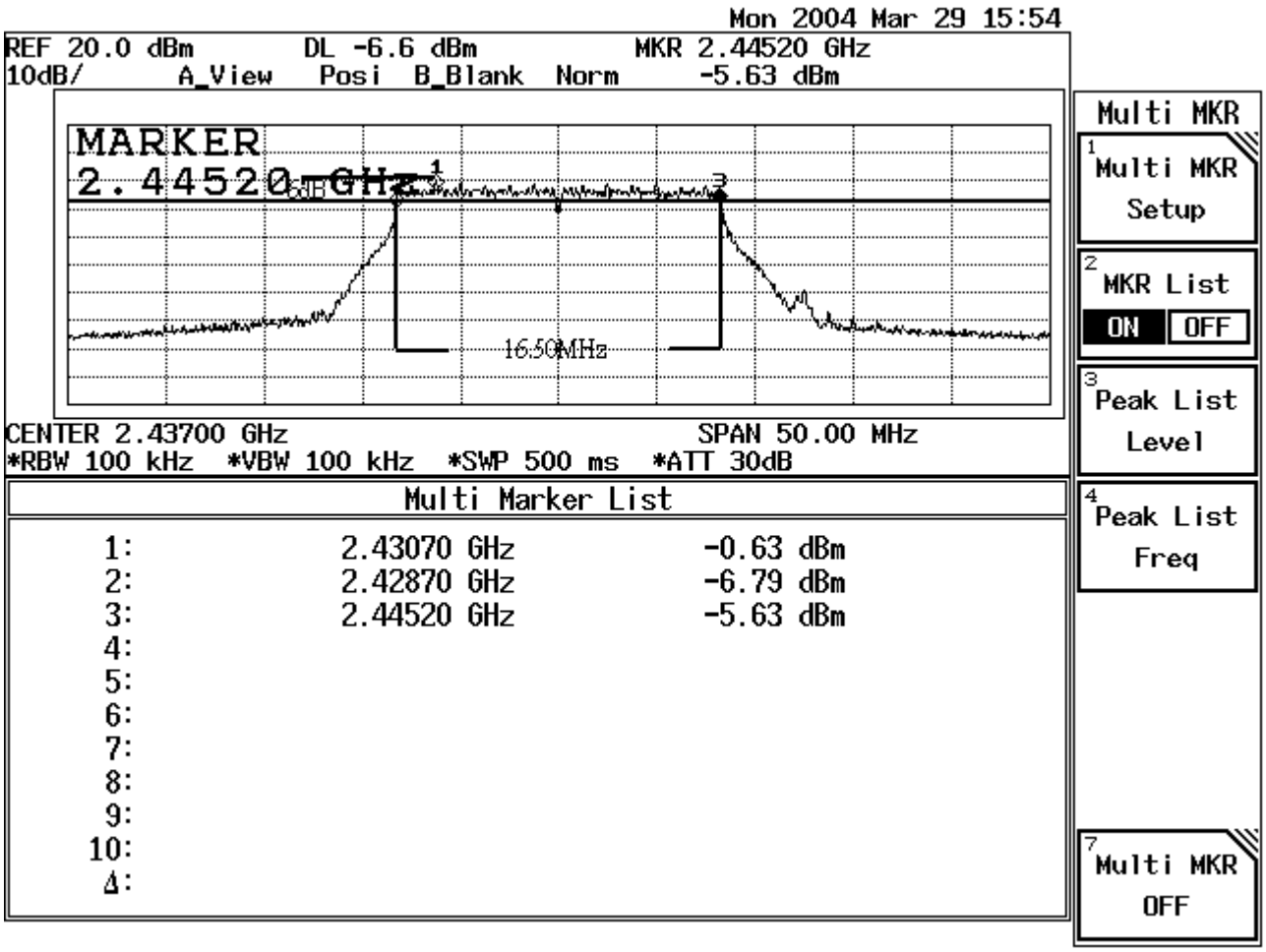
Figure Channel 1: 54Mbps



Product : Wireless Fidelity Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Transmitter 54Mbps (Channel 6)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (54Mbps)	2430.70	16500	>500	Pass

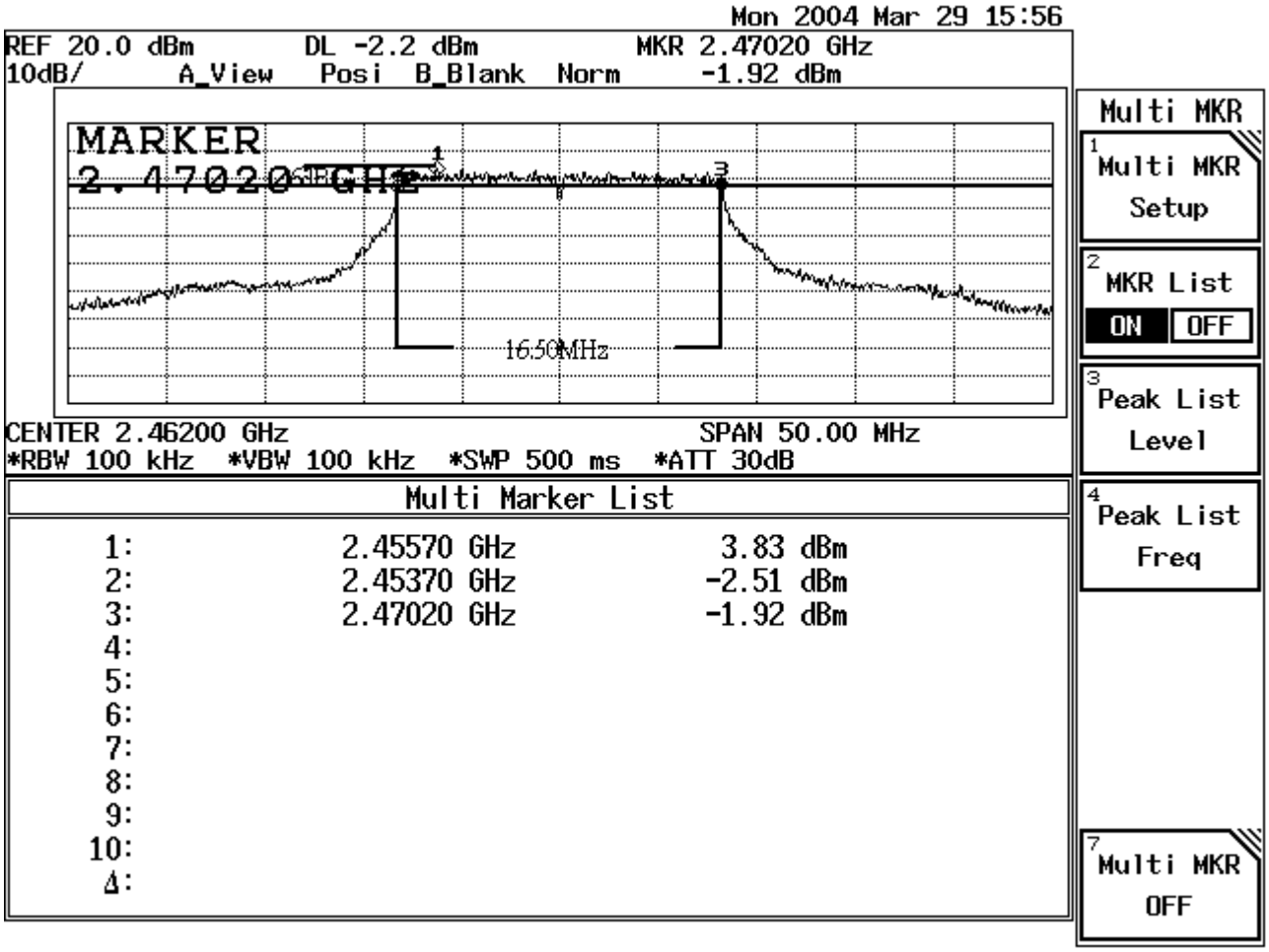
Figure Channel 6: 54Mbps



Product : Wireless Fidelity Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Transmitter 54Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (54Mbps)	2455.70	16500	>500	Pass

Figure Channel 11: 54Mbps



7. Power Density

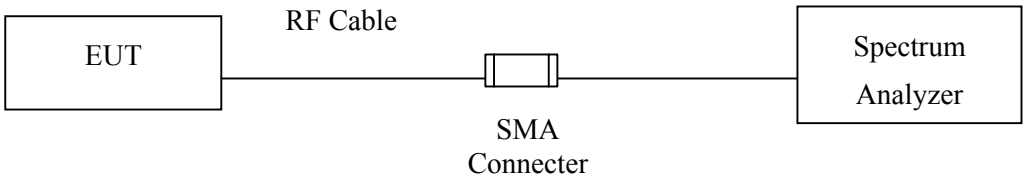
7.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2003

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

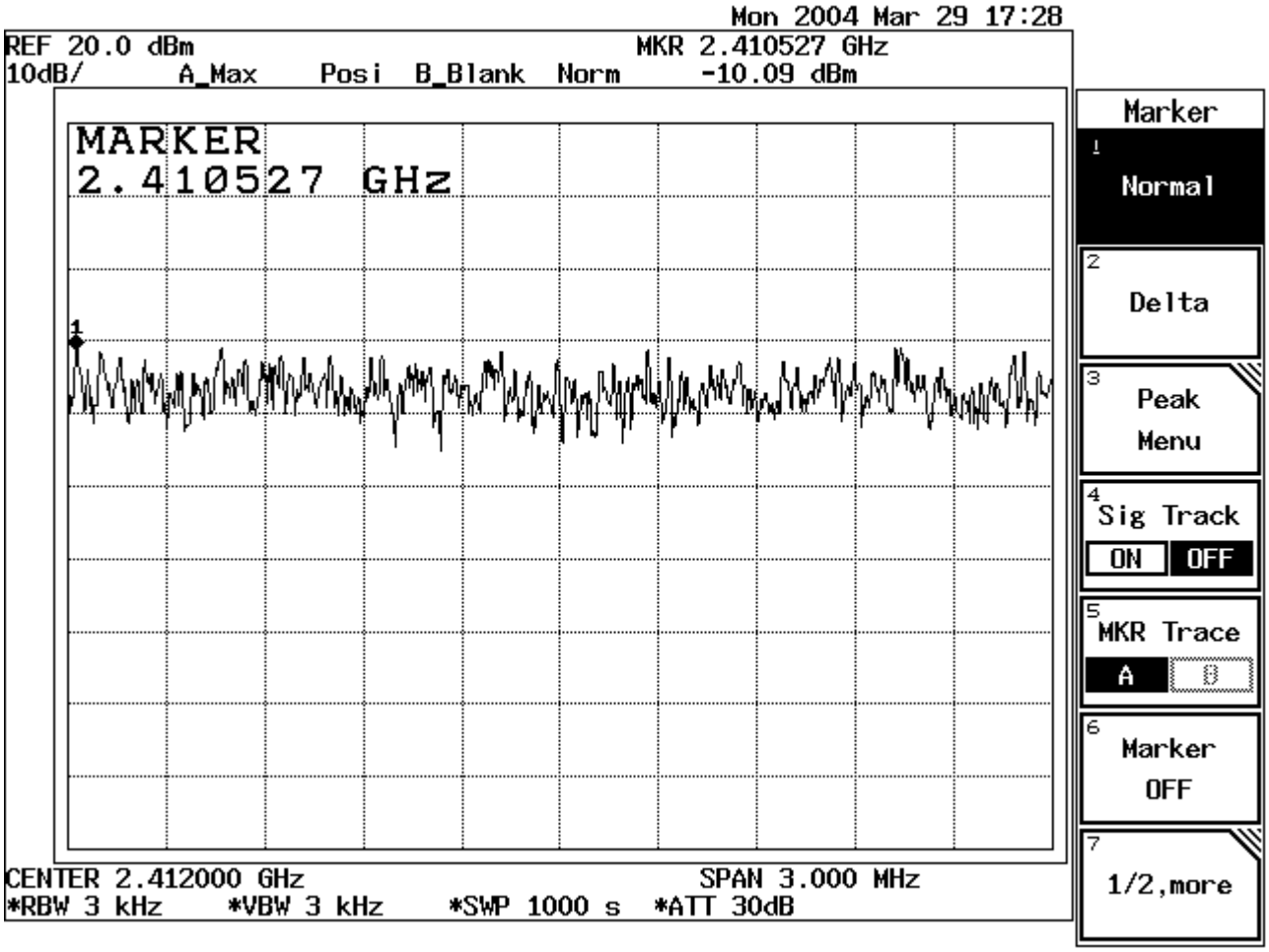
The measurement uncertainty is defined as ± 1.27 dB

7.5. Test Result of Power Density

Product : Wireless Fidelity Card
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Transmitter 11Mbps (Channel 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (11Mbps)	2410.527	-10.09	< 8dBm	Pass

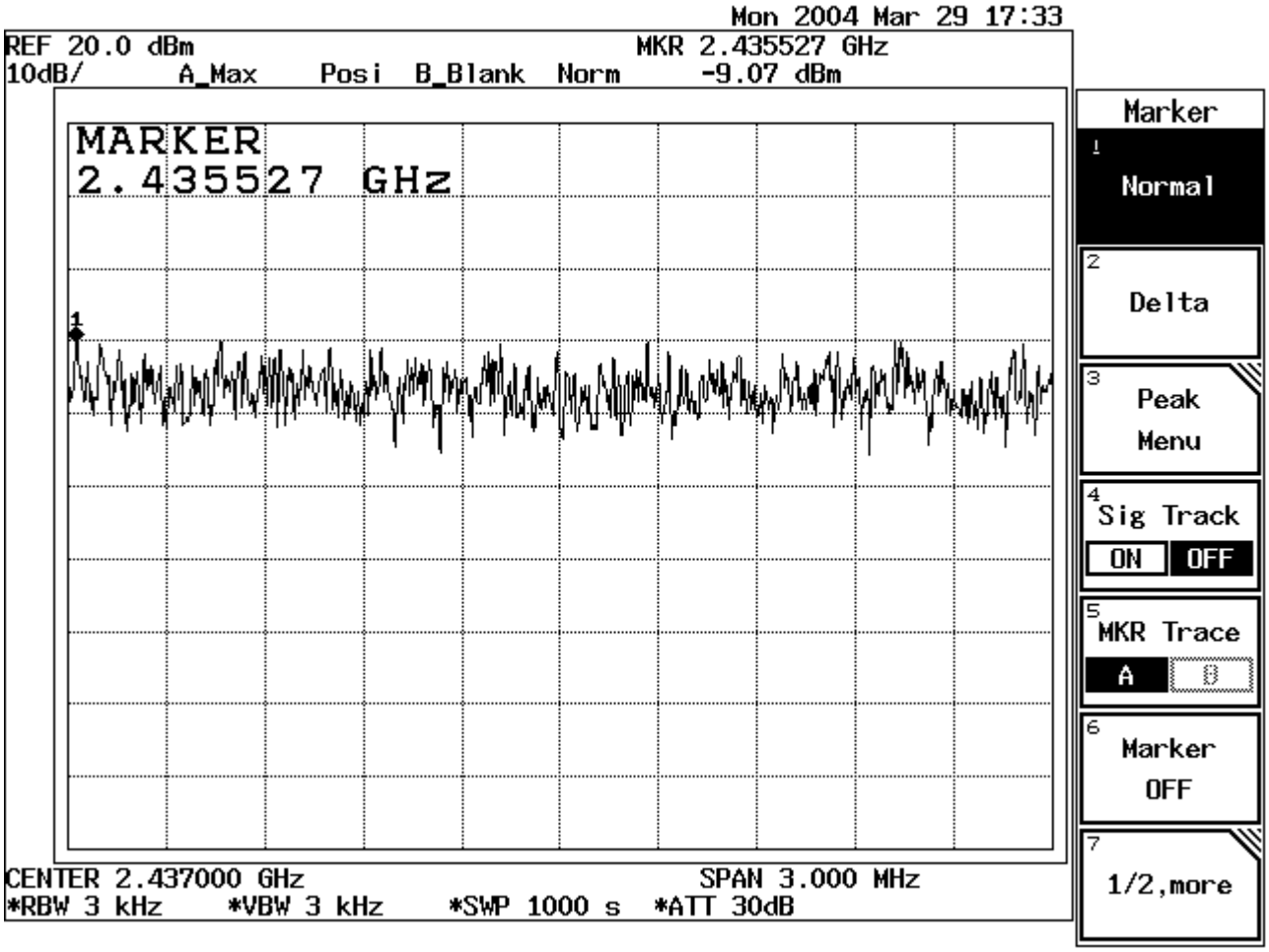
Figure Channel 1: 11Mbps



Product : Wireless Fidelity Card
Test Item : Power Density Data
Test Site : No.3OATS
Test Mode : Transmitter 11Mbps (Channel 6)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (11Mbps)	2435.527	-9.07	< 8dBm	Pass

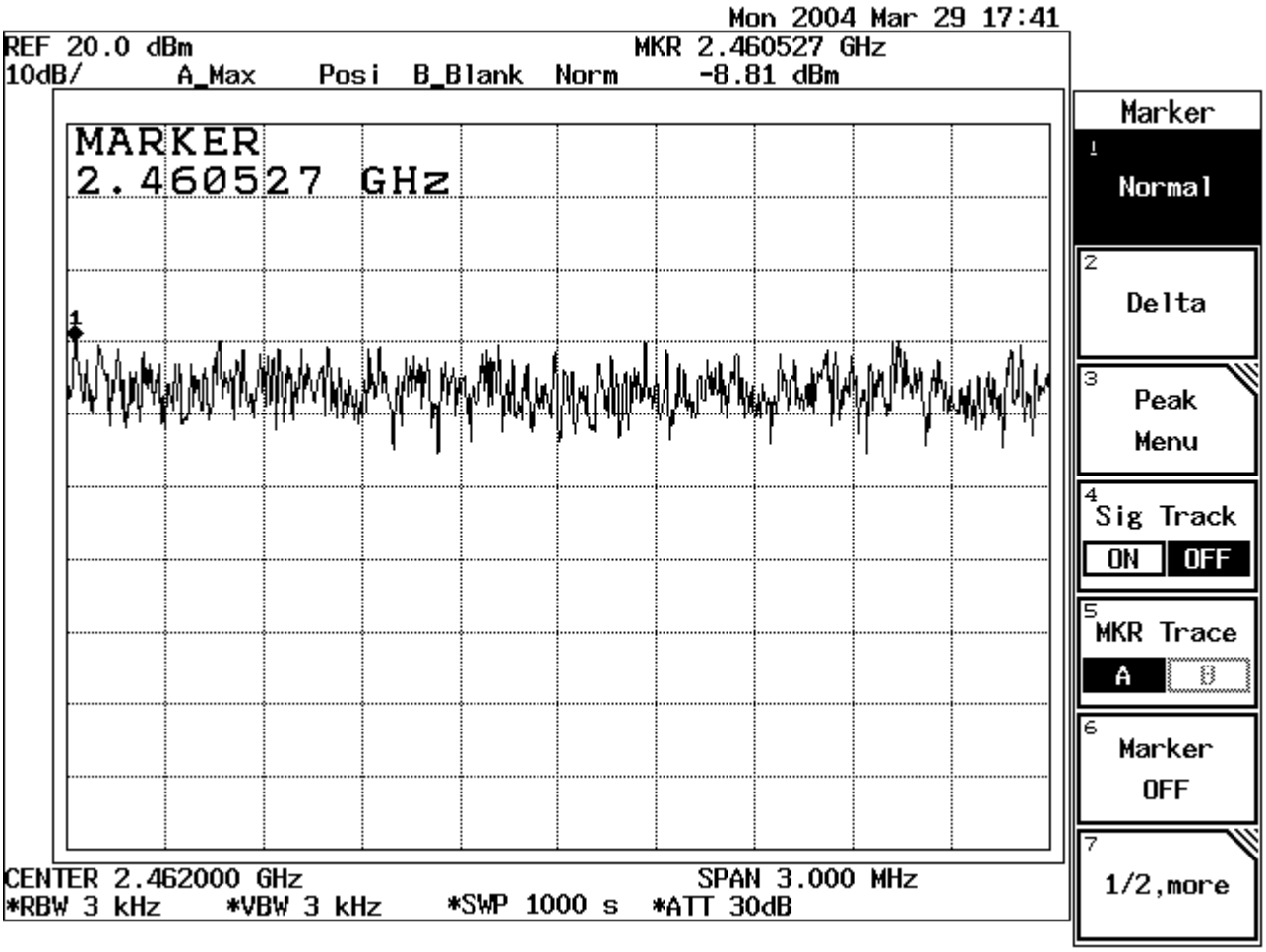
Figure Channel 6: 11Mbps



Product : Wireless Fidelity Card
Test Item : Density Data
Test Site : No.3 OATS
Test Mode : Transmitter 11Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (11Mbps)	2460.527	-8.81	< 8dBm	Pass

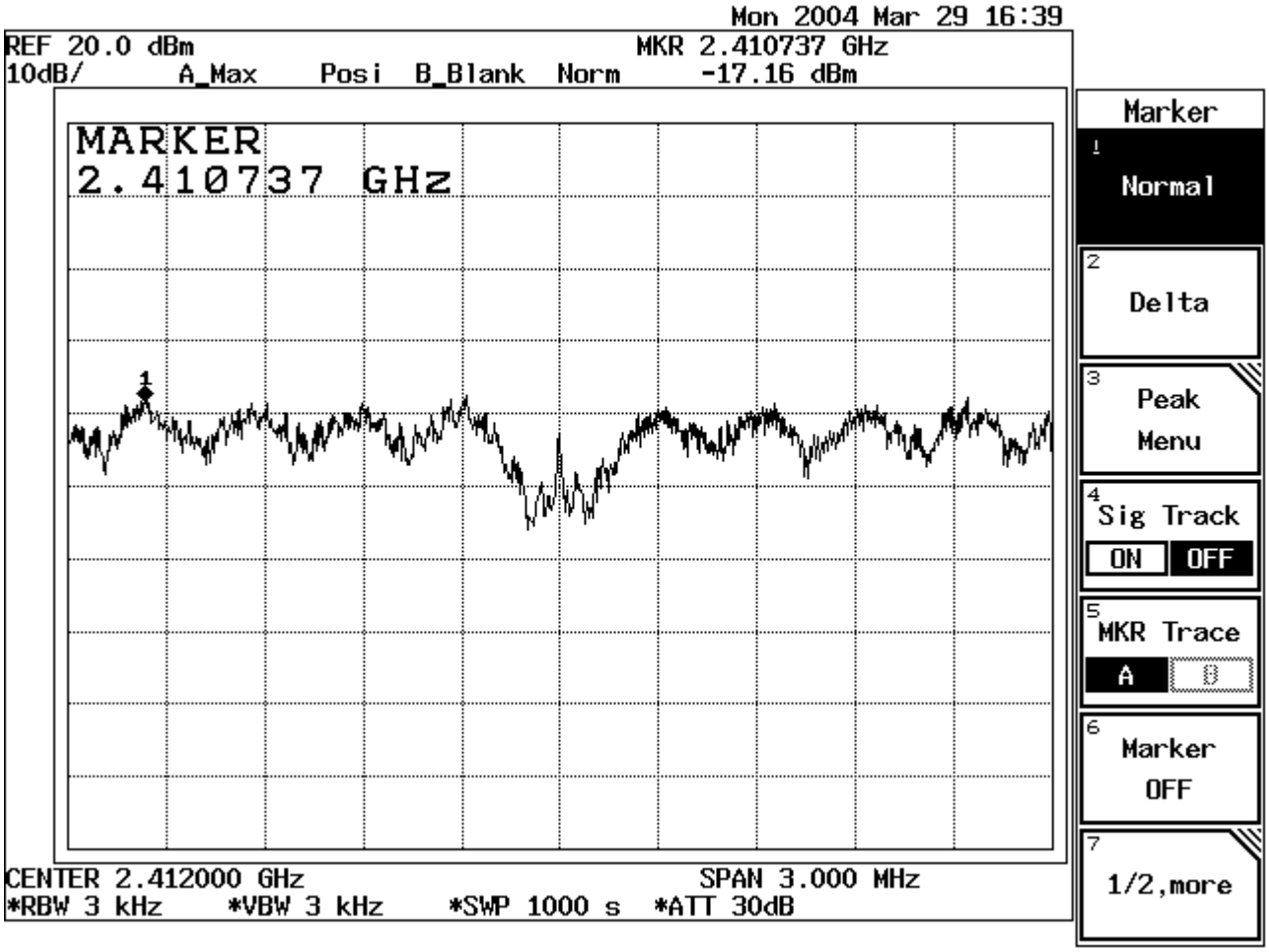
Figure Channel 11: 11Mbps



Product : Wireless Fidelity Card
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Transmitter 54Mbps (Channel 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (54Mbps)	2410.737	-17.16	< 8dBm	Pass

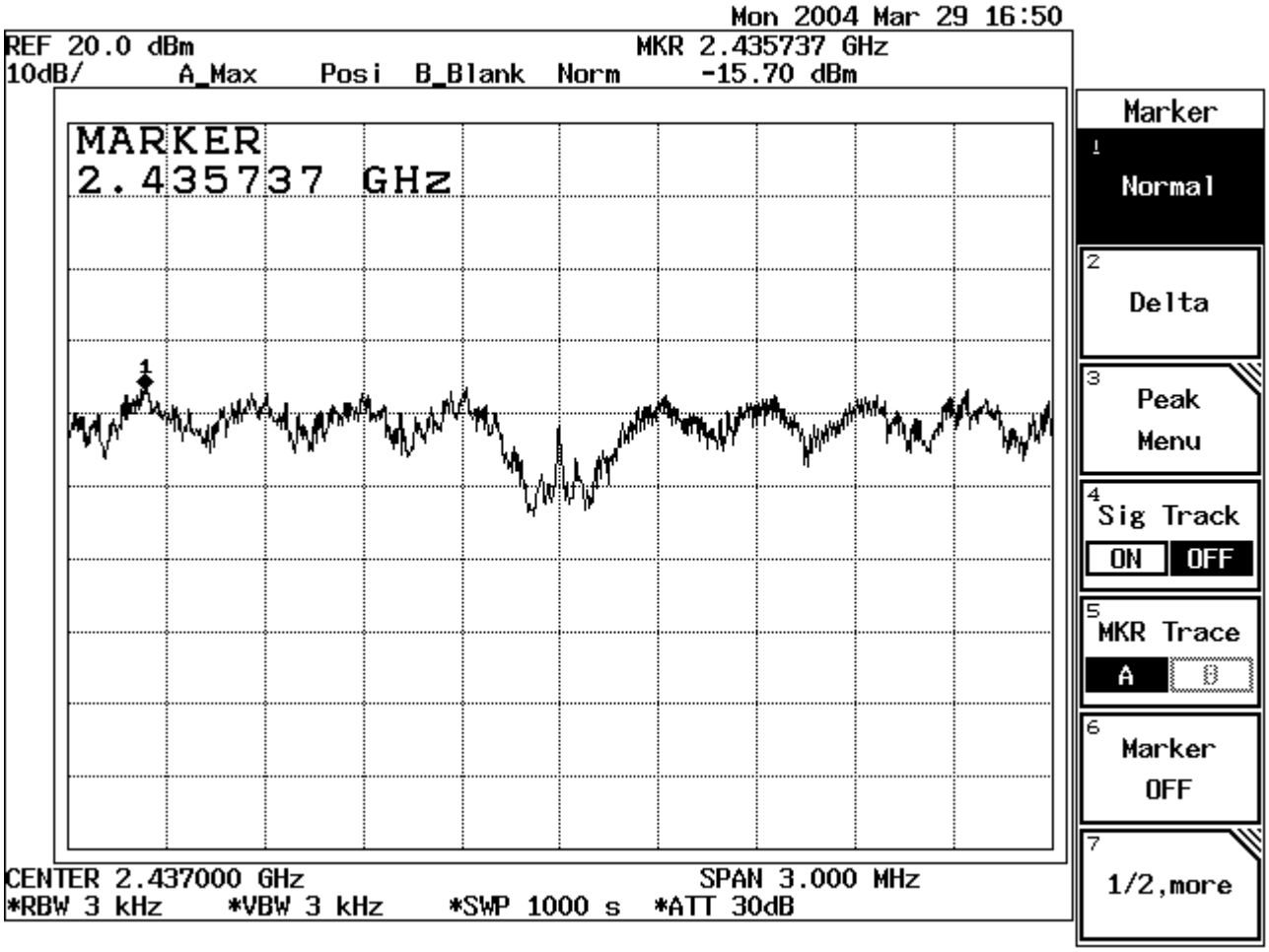
Figure Channel 1: 54Mbps



Product : Wireless Fidelity Card
Test Item : Power Density Data
Test Site : No.3OATS
Test Mode : Transmitter 54Mbps (Channel 6)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (54Mbps)	2435.737	-15.70	< 8dBm	Pass

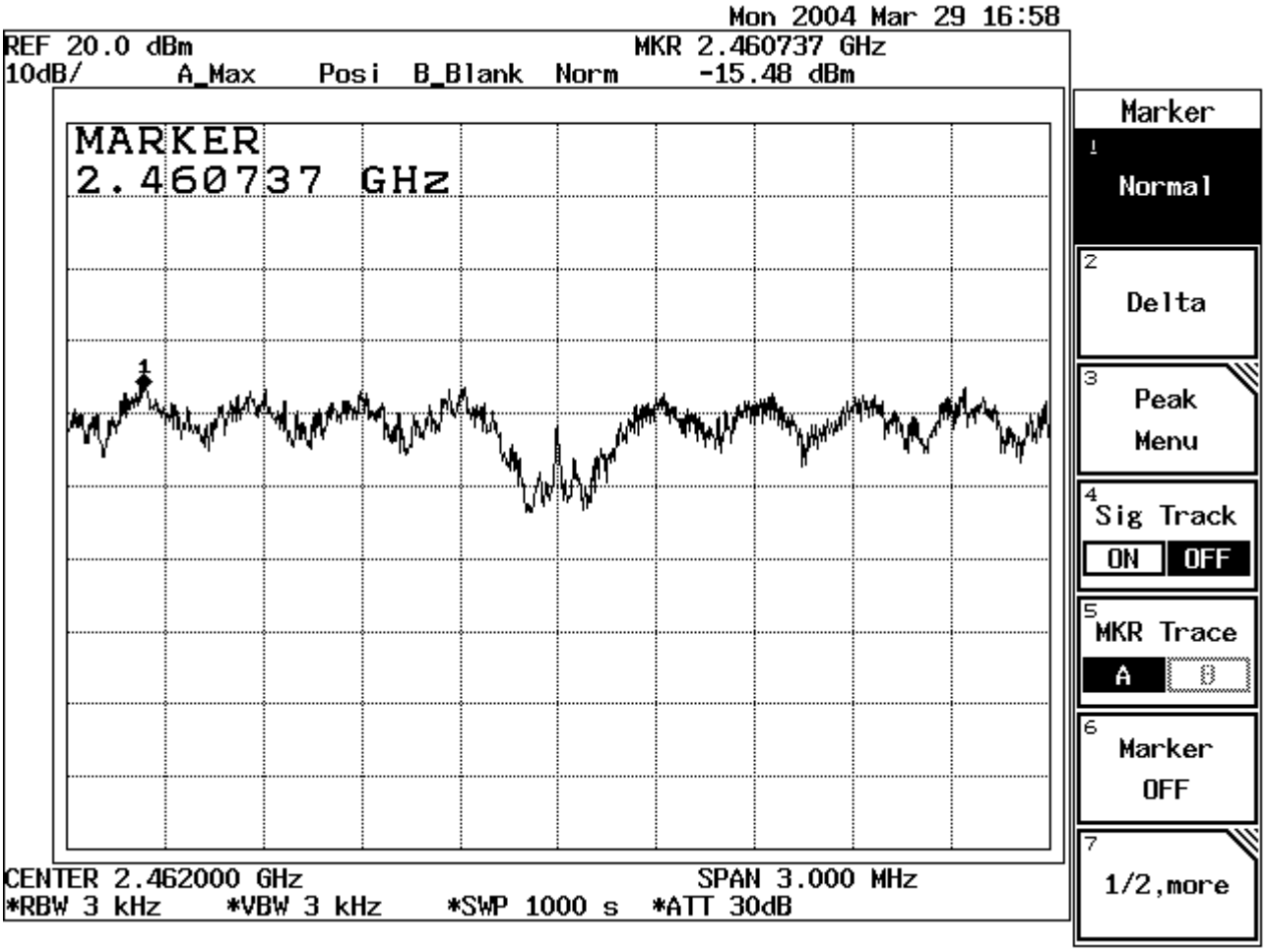
Figure Channel 6: 54Mbps



Product : Wireless Fidelity Card
Test Item : Density Data
Test Site : No.3 OATS
Test Mode : Transmitter 54Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (54Mbps)	2460.737	-15.48	< 8dBm	Pass

Figure Channel 11: 54Mbps



8. EMI Reduction Method During Compliance Testing

No modification was made during testing.

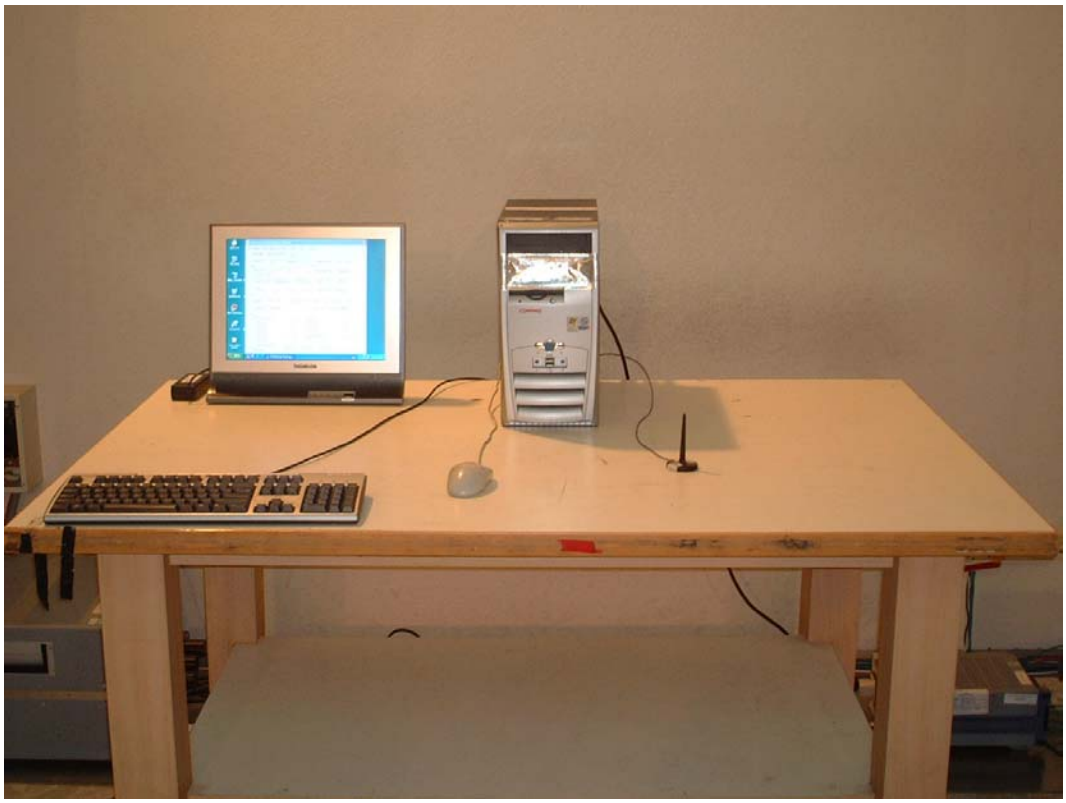
Attachment 1: EUT Test Photographs

Attachment 1: EUT Test Setup Photographs

Front View of Conducted Test (Mode 1)

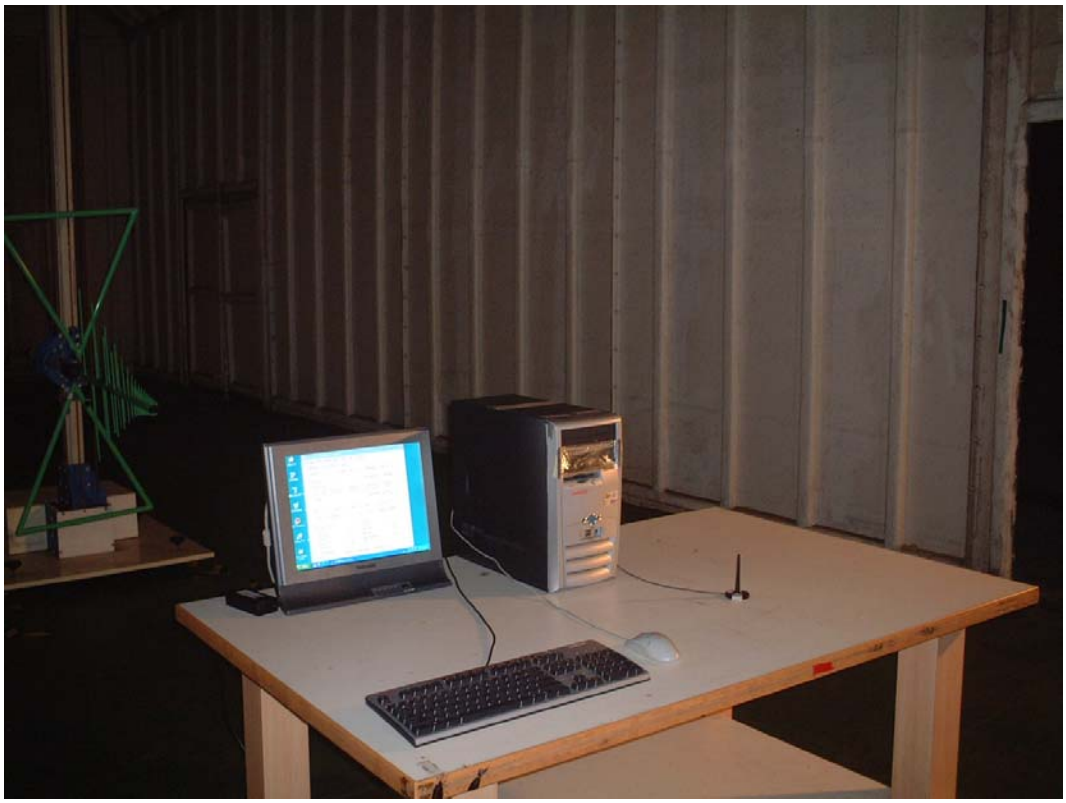
Back View of Conducted Test (Mode 1)

Front View of Conducted Test (Mode 2)



Back View of Conducted Test (Mode 2)

Front View of Radiated Test (Mode 1)

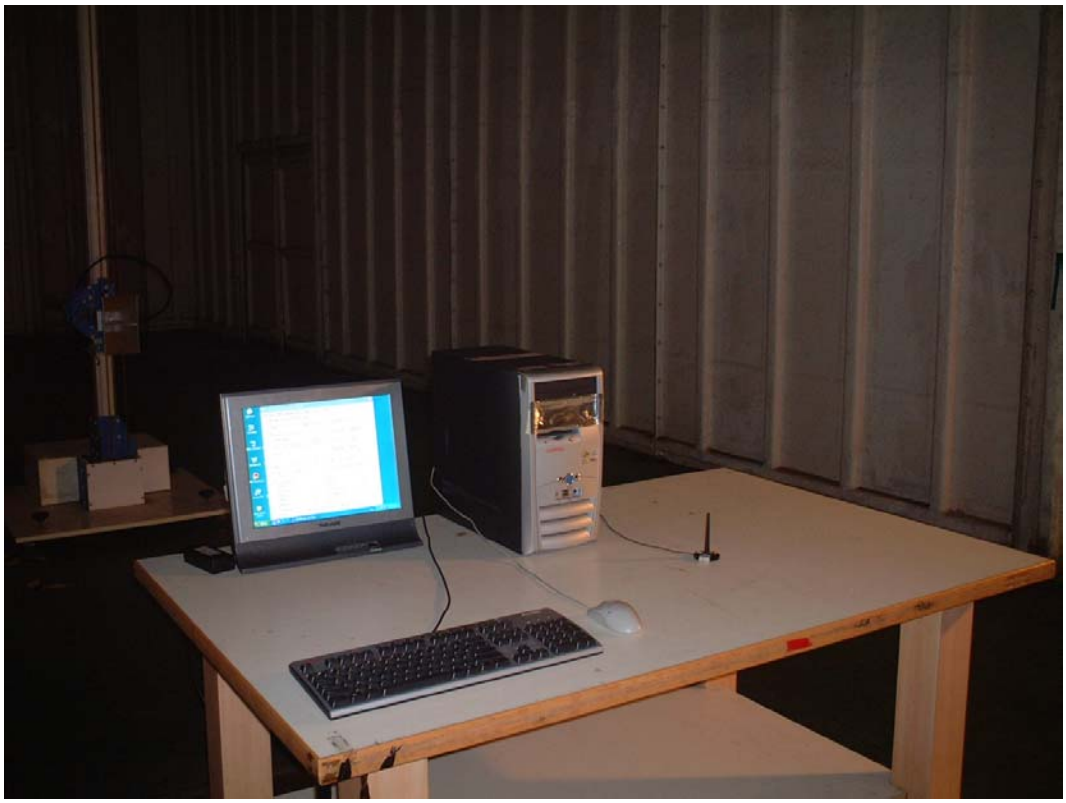


Back View of Radiated Test (Mode 1)

Front View of Radiated Test (Mode 2)

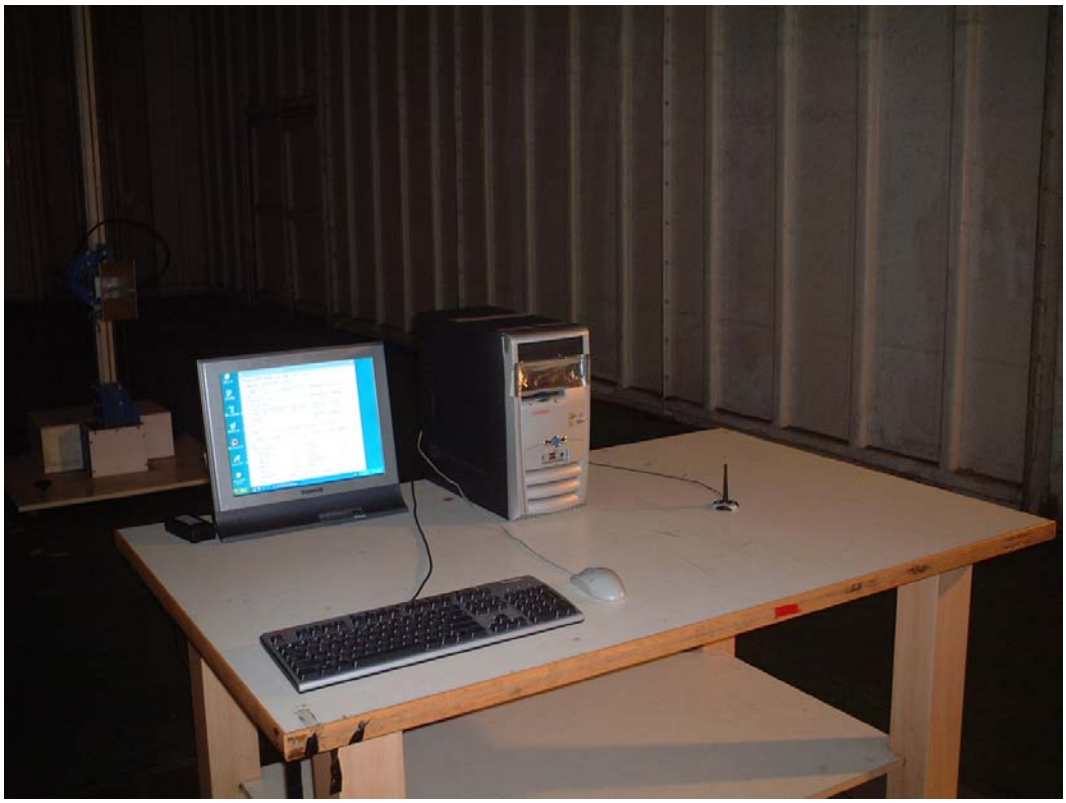
Back View of Radiated Test (Mode 2)

Front View of Radiated Test (Horn) (Mode 1)



Back View of Radiated Test (Horn) (Mode 1)

Front View of Radiated Test (Horn) (Mode 2)

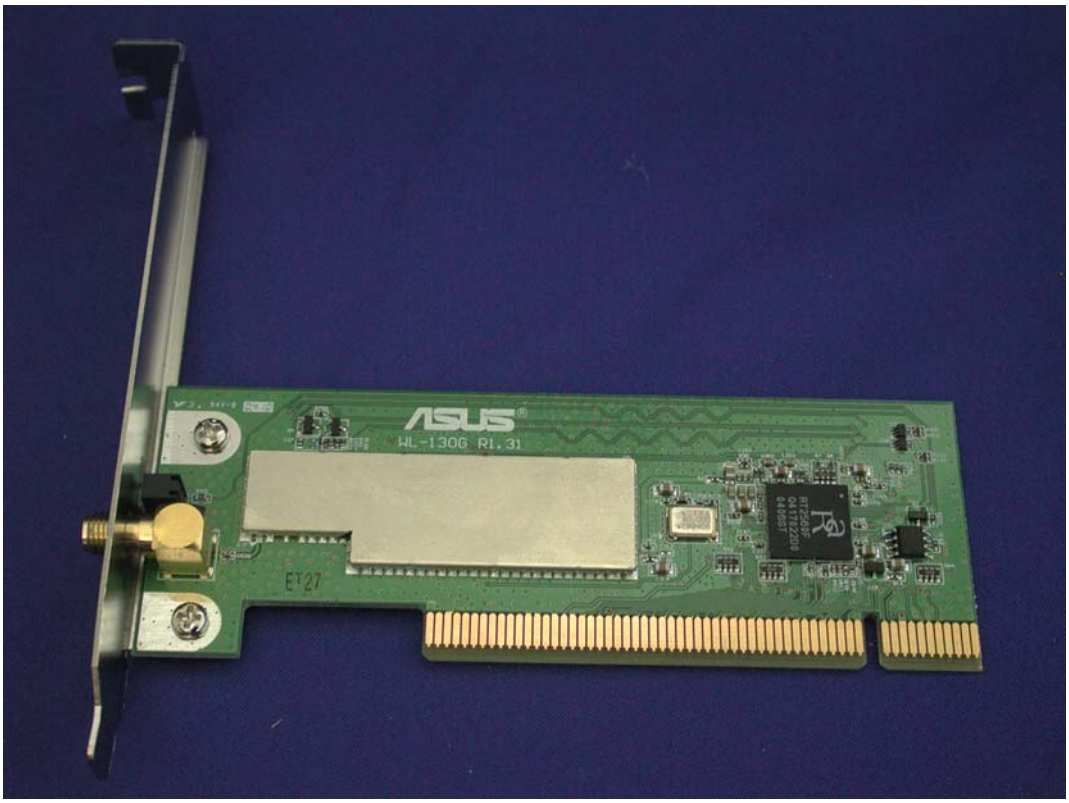


Back View of Radiated Test (Horn) (Mode 2)

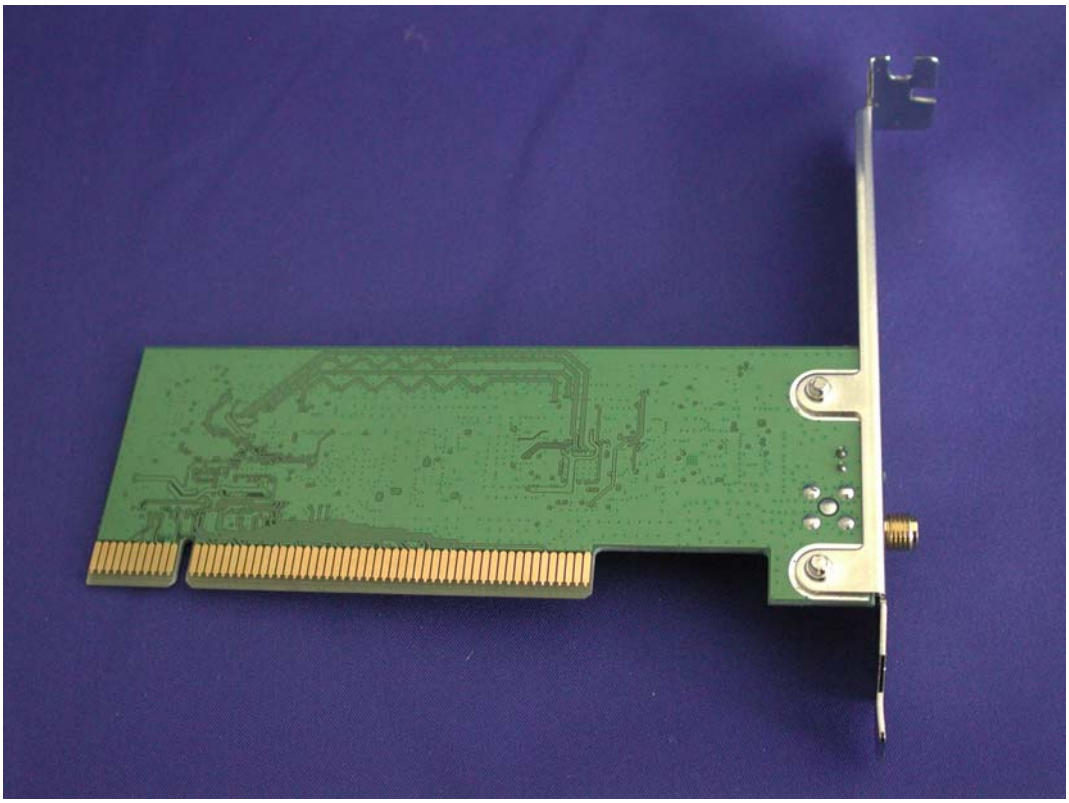
Attachment 2: EUT Detailed Photographs

Attachment 2 : EUT Detailed Photographs

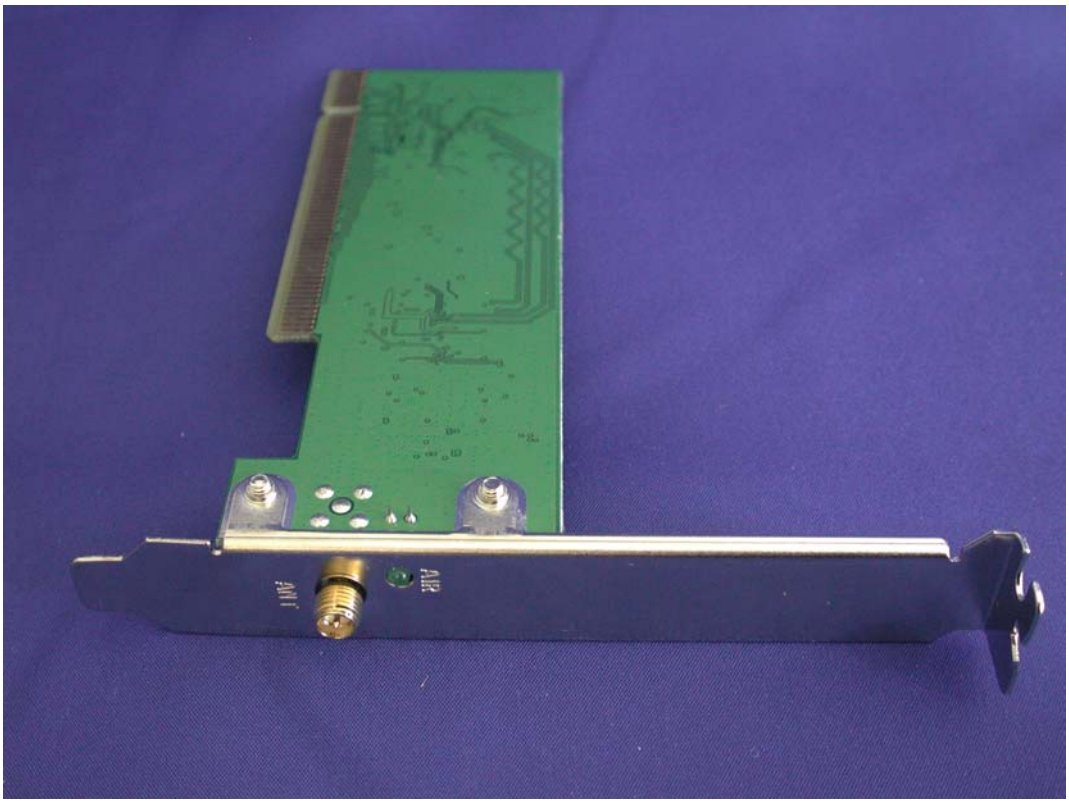
(1) EUT Photo



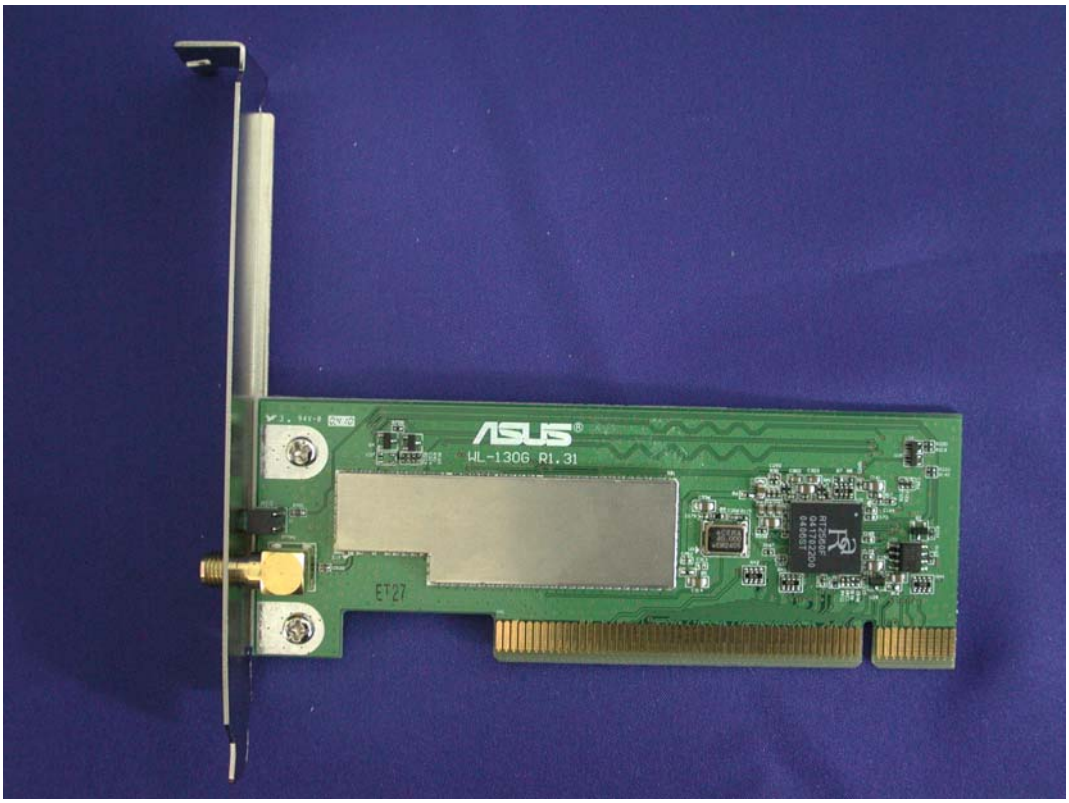
(2) EUT Photo



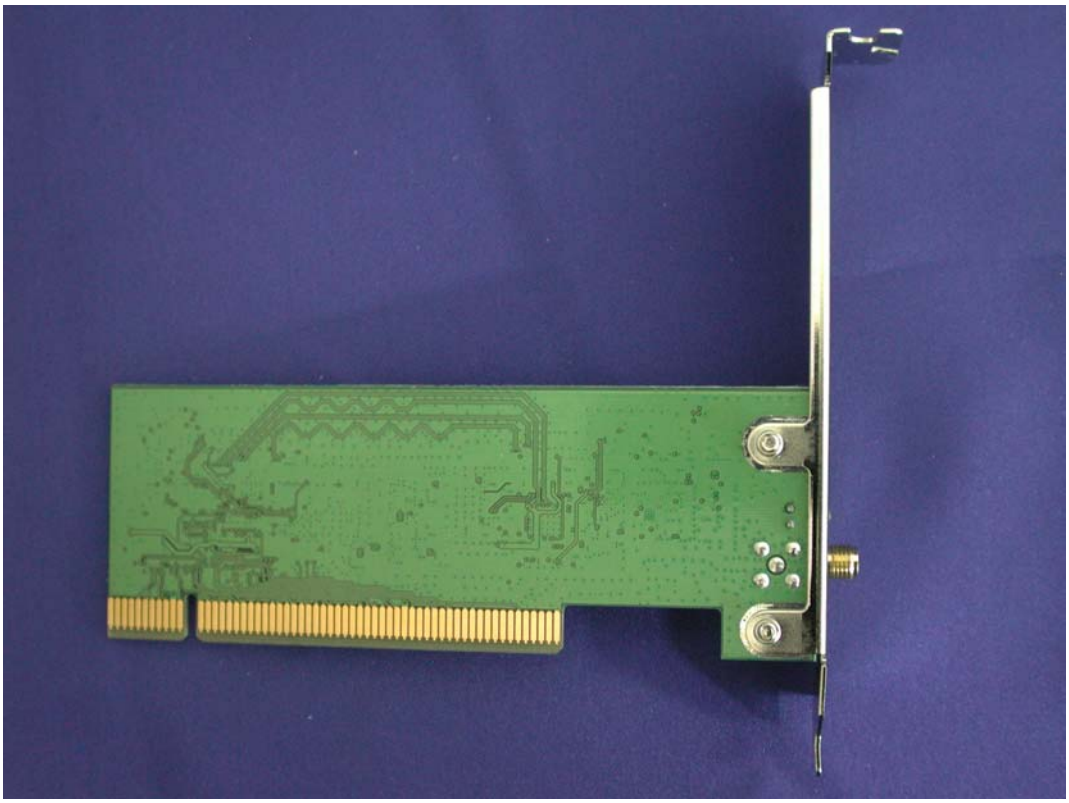
(3) EUT Photo



(4) EUT Photo

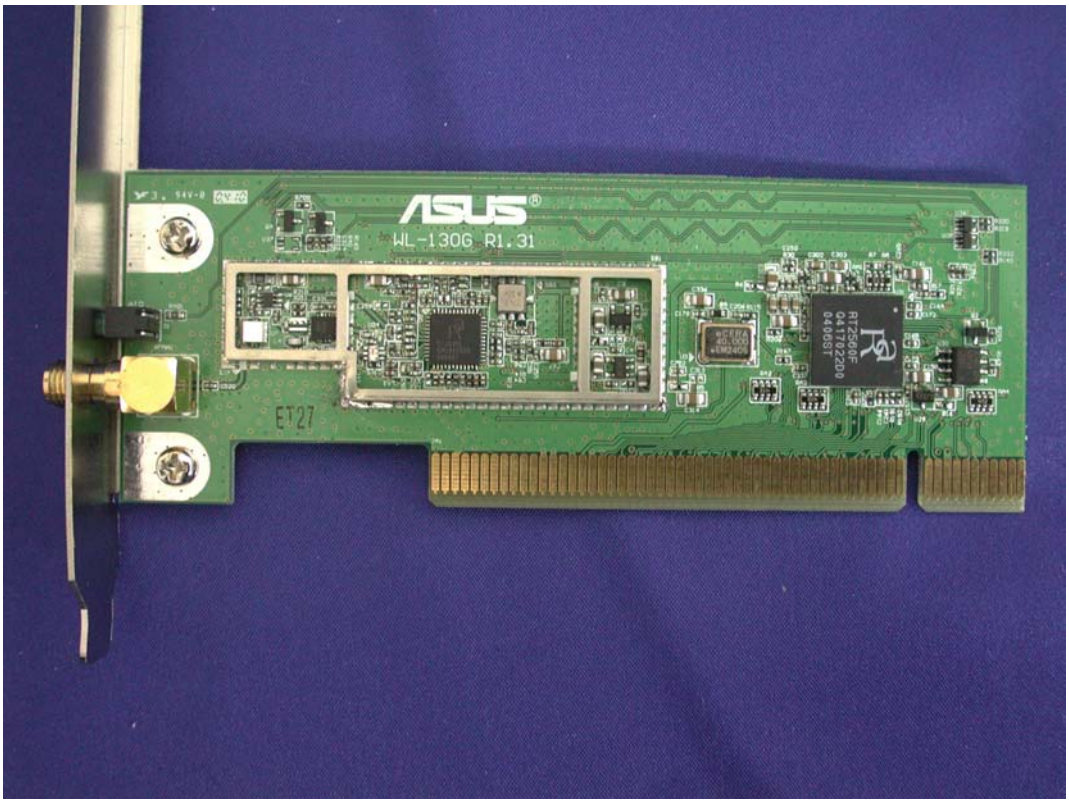


(5) EUT Photo

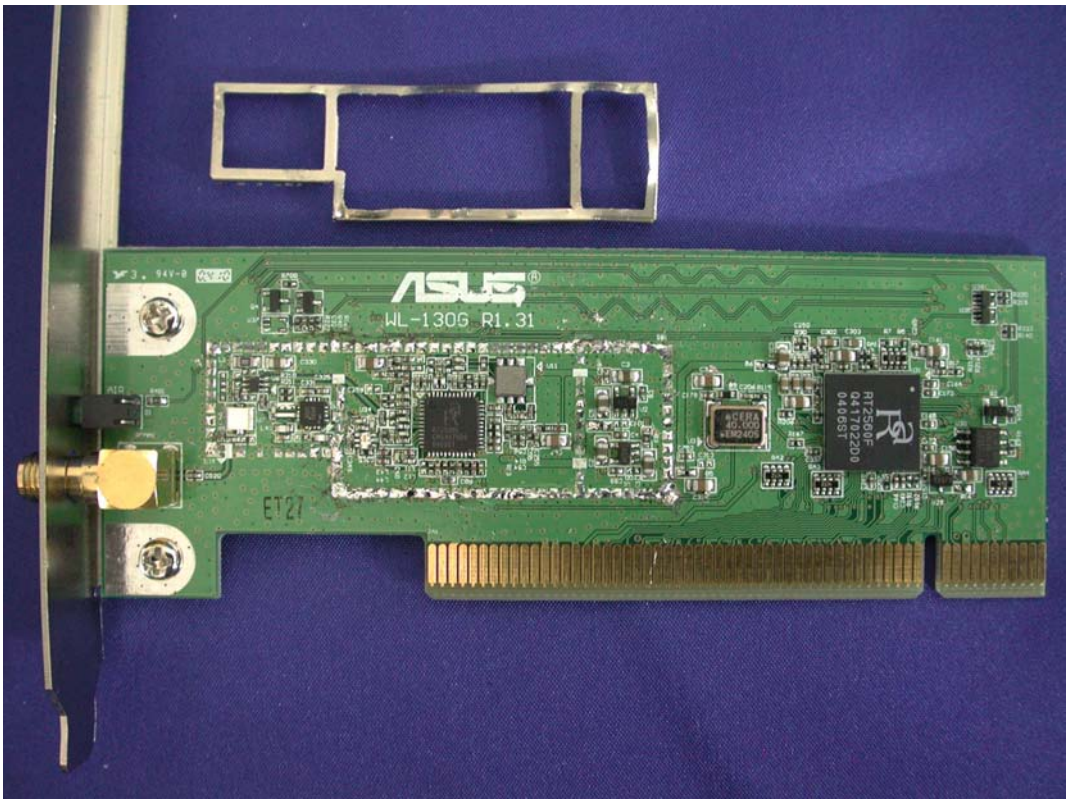


(6) EUT Photo

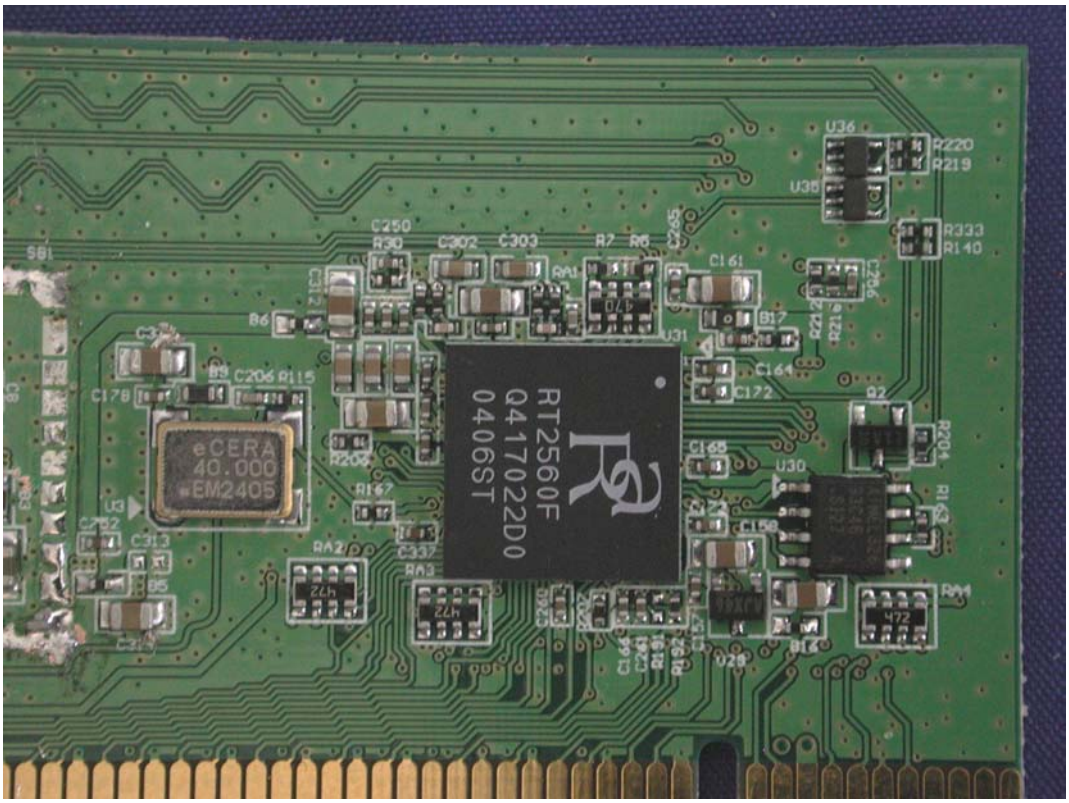
(7) EUT Photo



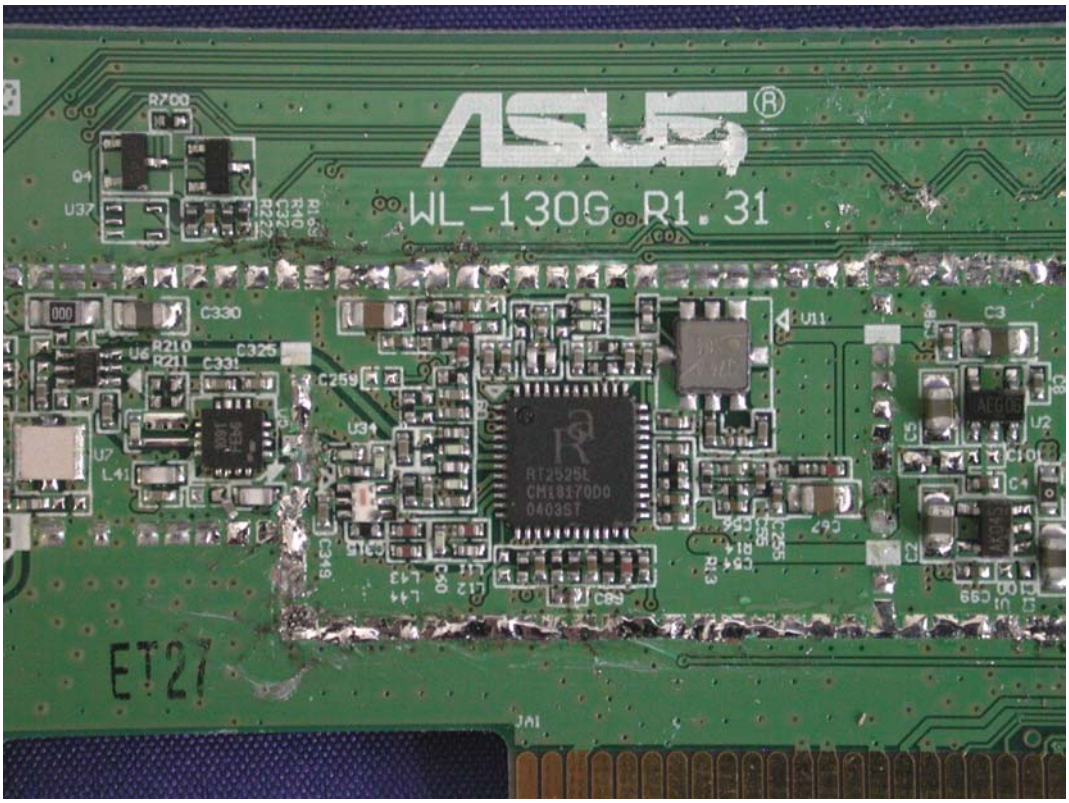
(8) EUT Photo



(9) EUT Photo



(10) EUT Photo



(11) EUT Photo

(12) EUT Photo

(13) EUT Photo