



Test Report

Product Name : Mini PCI Card

Model No.: MS-6818

FCC ID: I4L-MS6818

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

Address : No 69, Li-De st., Jung-He City, Taipei Hsien, Taiwan, R.O.C

Date of Receipt : Dec. 30, 2003

Date of Test : Jan. 08, 2004

Report No. : 041L017FI

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 : Jan. 08, 2004

Report No. : 041L017FI



Accredited by NIST (NVLAP)

NVLAP Lab Code: 200533-0

Product Name : Mini PCI Card

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

Address : No 69, Li-De st., Jung-He City, Taipei Hsien, Taiwan, R.O.C

Manufacturer : MICRO-STAR INT'L Co., LTD

Model No. : MS-6818

Rated Voltage : AC 120V/60Hz

Trade Name : MICRO-STAR

Measurement Standard : FCC Part 15 Subpart C Paragraph 15.247

Measurement Procedure : ANSI C63.4: 1992

Test Result : Complied



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Tested By : Tom Hsieh
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TABLE OF CONTENTS

Description	Page
1. GENERAL INFORMATION	5
1.1. EUT Description.....	5
1.2. Operational Description	6
1.3. Tested System Details.....	7
1.4. Configuration of tested System	8
1.5. EUT Exercise Software	8
1.6. Test Facility	9
2. Conducted Emission.....	10
2.1. Test Equipment.....	10
2.2. Test Setup	10
2.3. Limits	10
2.4. Test Procedure	11
2.5. Test Result of Conducted Emission.....	12
3. Peak Power Output	36
3.1. Test Equipment.....	36
3.2. Test Setup	36
3.3. Limits	36
3.4. Test Result of Peak Power Output.....	37
4. Radiated Emission.....	39
4.1. Test Equipment.....	39
4.2. Test Setup	39
4.3. Limits	40
4.4. Test Procedure	41
4.5. Test Result of Radiated Emission.....	42
5. Band Edge	66
5.1. Test Equipment.....	66
5.2. Test Setup	66
5.3. Limits	67
5.4. Test Procedure	67
5.5. Test Result of Band Edge	68
6. Occupied Bandwidth.....	76
6.1. Test Equipment.....	76
6.2. Test Setup	76
6.3. Limits	76
6.4. Test Result of Occupied Bandwidth.....	77
7. Power Density	83
7.1. Test Equipment.....	83
7.2. Test Setup	83
7.3. Limits	83

7.4.	Test Result of Power Density	84
8.	EMI Reduction Method During Compliance Testing	90

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

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	: Mini PCI Card
Trade Name	: MICRO-STAR
Model No.	: MS-6818
FCC ID	: I4L-MS6818
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	: Direct Sequence Spread Spectrum
Antenna Type	: Connector
Antenna Gain	: 2dBi
Channel Control	: By software

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 Mini PCI 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 Mini PCI 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 Mini PCI 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 Direct Sequence Spread Spectrum (DSSS) radio transmission, the Mini PCI 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: 11MHz (Green Antenna)
 Mode 2: 54MHz (Green Antenna)
 Mode 3: 11MHz (White Antenna)
 Mode 4: 54MHz (White Antenna)

1.3. Tested System Details

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

For Green Antenna

	Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
(1)	Notebook PC	ASUS	S1300	26NP018680	DoC	Non-Shielded, 1.8m
(2)	DC Power Supply	Topward	6303D	670302	N/A	Non-shielded, 1.8m
(3)	Notebook PC	ASUS	S1300	24NP035390	DoC	Non-Shielded, 1.8m
(4)	W/LAN Card	LEMEL	LM-WLC030	1231Q048877	H8NWLC030	N/A

	Signal Cable Type	Signal cable Description
A.	Green Antenna Short Cable	Shielded, 0.08m
B.	Green Antenna Long Cable	Shielded, 0.15m
C.	DC Power Cable	Non-Shielded, 1.5m
D.	DC Power Cable	Non-Shielded, 1.8m

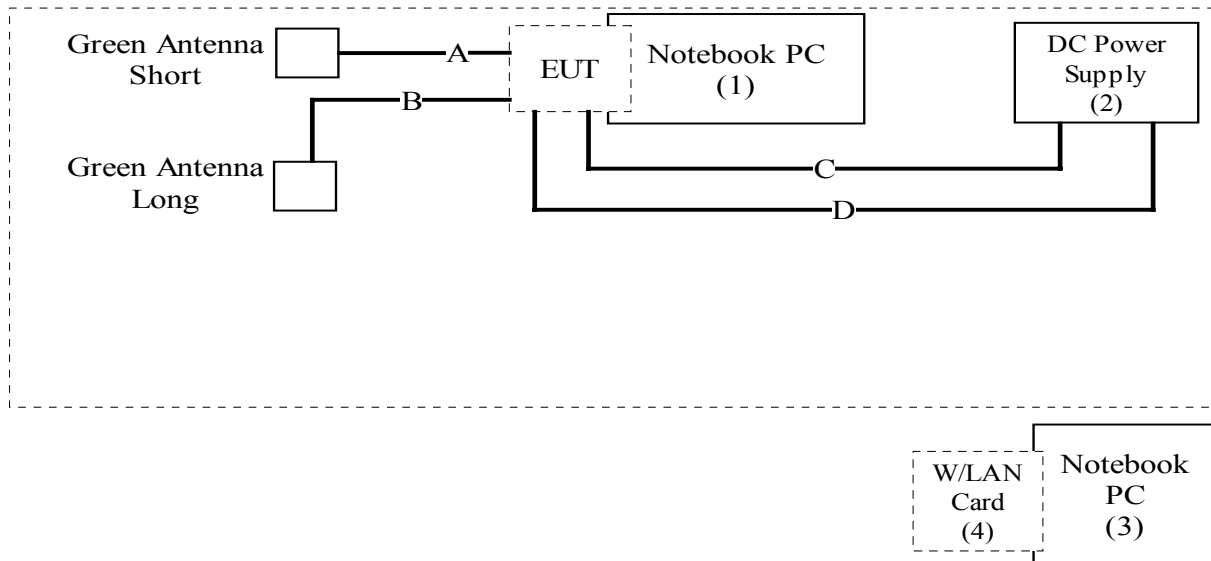
For White Antenna

	Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
(1)	Notebook PC	ASUS	S1300	26NP018680	DoC	Non-Shielded, 1.8m
(2)	DC Power Supply	Topward	6303D	670302	N/A	Non-shielded, 1.8m
(3)	Notebook PC	ASUS	S1300	24NP035390	DoC	Non-Shielded, 1.8m
(4)	W/LAN Card	LEMEL	LM-WLC030	1231Q048877	H8NWLC030	N/A

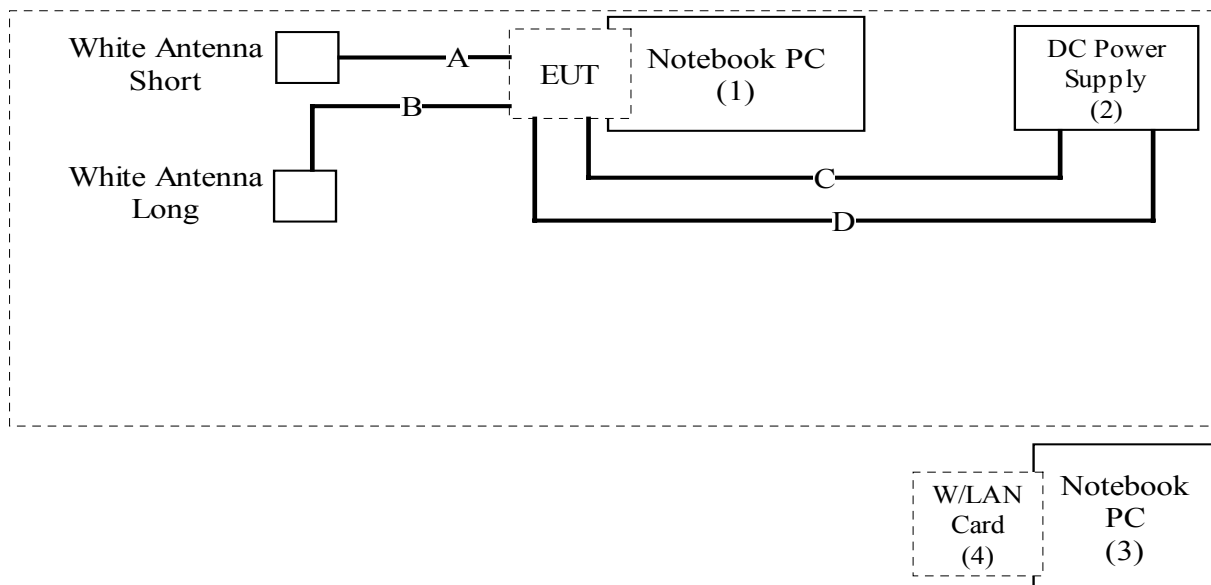
	Signal Cable Type	Signal cable Description
E.	White Antenna Short Cable	Shielded, 0.08m
F.	White Antenna Long Cable	Shielded, 0.15m
G.	DC Power Cable	Non-Shielded, 1.5m
H.	DC Power Cable	Non-Shielded, 1.8m

1.4. Configuration of tested System

For Green Antenna



For White Antenna



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) PC reads data from disk.
- (4) Data will to coerce transmitting through EUT.
- (5) Repeat the above procedure (3) to (4)

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



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2. Conducted Emission

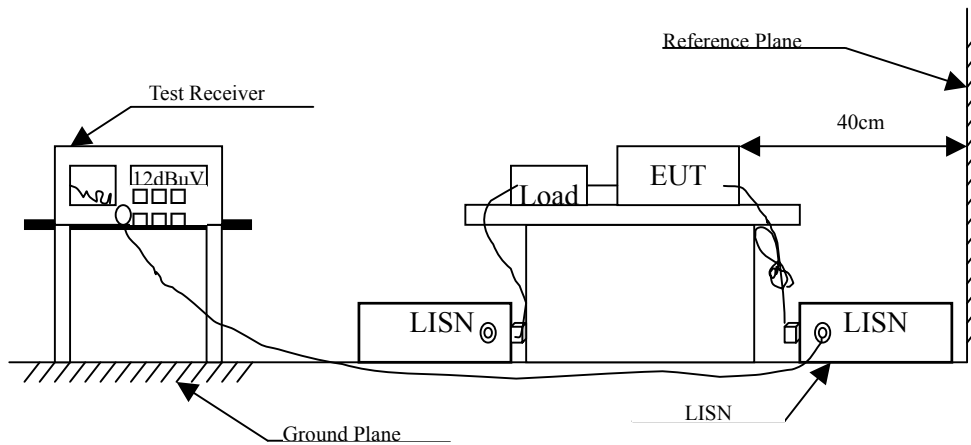
2.1. Test Equipment

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.4 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 C63.4:1992 on conducted measurement.

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

2.5. Test Result of Conducted Emission

Product : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: 11MHz (Green Antenna) (Channel 1)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.158	0.60	0.10	8.64	9.34	65.58
2.084	0.60	0.13	11.46	12.19	56.00
4.305	0.60	0.16	10.26	11.02	56.00
7.200	0.60	0.19	15.78	16.57	60.00
* 11.302	0.70	0.24	29.28	30.22	60.00
15.340	0.89	0.35	12.24	13.48	60.00
Average					
0.158	0.60	0.10	5.80	6.50	55.57
2.084	0.60	0.13	9.00	9.73	46.00
4.305	0.60	0.16	4.10	4.86	46.00
7.200	0.60	0.19	9.40	10.19	50.00
* 11.302	0.70	0.24	24.10	25.04	50.00
15.340	0.89	0.35	5.40	6.64	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: 11MHz (Green Antenna) (Channel 1)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
2.153	0.60	0.13	9.88	10.61	56.00
7.265	0.60	0.19	16.86	17.65	60.00
8.137	0.60	0.19	17.94	18.73	60.00
* 11.302	0.70	0.24	33.06	34.00	60.00
16.948	0.82	0.39	13.40	14.61	60.00
26.884	0.82	0.56	14.00	15.38	60.00
Average					
2.153	0.60	0.13	6.10	6.83	46.00
7.265	0.60	0.19	9.60	10.39	50.00
8.137	0.60	0.19	12.80	13.59	50.00
* 11.302	0.70	0.24	28.50	29.44	50.00
16.948	0.82	0.39	5.30	6.51	50.00
26.884	0.82	0.56	11.00	12.38	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: 11MHz (Green Antenna) (Channel 6)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
0.166	0.60	0.10	16.22	16.92	65.18
2.152	0.60	0.13	12.26	12.99	56.00
6.994	0.60	0.18	14.34	15.12	60.00
9.080	0.60	0.20	22.34	23.14	60.00
* 10.158	0.61	0.21	27.82	28.64	60.00
13.857	0.84	0.32	19.92	21.08	60.00
Average					
0.166	0.60	0.10	10.50	11.20	55.16
2.152	0.60	0.13	11.00	11.73	46.00
6.994	0.60	0.18	7.30	8.08	50.00
9.080	0.60	0.20	17.30	18.10	50.00
* 10.158	0.61	0.21	22.80	23.62	50.00
13.857	0.84	0.32	14.20	15.36	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: 11MHz (Green Antenna) (Channel 6)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
0.162	0.60	0.10	11.38	12.08	65.38
5.853	0.60	0.18	12.08	12.86	60.00
9.216	0.60	0.20	23.80	24.60	60.00
* 10.697	0.65	0.22	31.00	31.87	60.00
14.127	0.86	0.33	19.86	21.04	60.00
26.888	0.82	0.56	13.76	15.14	60.00
Average					
0.162	0.60	0.10	5.90	6.60	55.36
5.853	0.60	0.18	6.90	7.68	50.00
9.216	0.60	0.20	19.70	20.50	50.00
* 10.697	0.65	0.22	27.00	27.87	50.00
14.127	0.86	0.33	14.40	15.58	50.00
26.888	0.82	0.56	9.90	11.28	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: 11MHz (Green Antenna) (Channel 11)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.170	0.60	0.10	13.80	14.50	64.98
2.287	0.60	0.14	12.22	12.96	56.00
6.728	0.60	0.18	14.86	15.64	60.00
* 11.302	0.70	0.24	28.28	29.22	60.00
13.388	0.82	0.31	21.66	22.79	60.00
27.783	0.78	0.57	10.06	11.41	60.00
Average					
0.170	0.60	0.10	8.10	8.80	54.96
2.287	0.60	0.14	7.70	8.44	46.00
6.728	0.60	0.18	8.50	9.28	50.00
* 11.302	0.70	0.24	23.20	24.14	50.00
13.388	0.82	0.31	16.40	17.53	50.00
27.783	0.78	0.57	5.60	6.95	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: 11MHz (Green Antenna) (Channel 11)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.166	0.01	0.11	15.14	15.25	65.18
5.517	0.21	0.44	12.94	13.59	60.00
6.662	0.23	0.46	15.74	16.43	60.00
* 11.705	0.29	0.51	31.60	32.41	60.00
17.423	0.34	0.55	13.42	14.31	60.00
27.478	0.39	0.59	12.88	13.86	60.00
Average					
0.166	0.01	0.11	9.20	9.31	55.16
5.517	0.21	0.44	6.10	6.75	50.00
6.662	0.23	0.46	8.50	9.19	50.00
* 11.705	0.29	0.51	27.50	28.31	50.00
17.423	0.34	0.55	5.00	5.89	50.00
27.478	0.39	0.59	9.10	10.08	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 1)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.154	0.00	0.10	8.14	8.24	65.79
2.220	0.15	0.35	12.52	13.02	56.00
4.779	0.20	0.43	11.70	12.32	56.00
8.341	0.26	0.48	18.84	19.58	60.00
* 11.505	0.29	0.51	27.80	28.60	60.00
14.931	0.32	0.53	14.40	15.26	60.00
Average					
0.154	0.60	0.10	4.90	5.60	55.78
2.220	0.60	0.13	9.30	10.03	46.00
4.779	0.60	0.17	5.00	5.77	46.00
8.341	0.60	0.19	14.10	14.89	50.00
* 11.505	0.70	0.25	23.50	24.45	50.00
14.931	0.89	0.34	9.90	11.14	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 1)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
2.287	0.60	0.14	11.16	11.90	56.00
4.642	0.60	0.17	10.68	11.45	56.00
8.478	0.60	0.19	19.40	20.19	60.00
* 11.439	0.70	0.25	31.22	32.17	60.00
17.091	0.81	0.39	14.12	15.33	60.00
26.584	0.83	0.55	12.10	13.49	60.00
Average					
2.287	0.60	0.14	5.70	6.44	46.00
4.642	0.60	0.17	4.90	5.67	46.00
8.478	0.60	0.19	14.80	15.59	50.00
* 11.439	0.70	0.25	27.50	28.45	50.00
17.091	0.81	0.39	6.80	8.01	50.00
26.584	0.83	0.55	6.10	7.49	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 6)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
0.154	0.60	0.10	21.98	22.68	65.79
2.154	0.60	0.13	12.16	12.89	56.00
5.517	0.60	0.17	13.16	13.93	60.00
8.615	0.60	0.19	19.66	20.45	60.00
* 10.900	0.67	0.23	27.62	28.52	60.00
14.334	0.87	0.33	18.72	19.92	60.00
Average					
0.154	0.60	0.10	5.10	5.80	55.78
2.154	0.60	0.13	9.60	10.33	46.00
5.517	0.60	0.17	6.10	6.87	50.00
8.615	0.60	0.19	15.50	16.29	50.00
* 10.900	0.67	0.23	22.10	23.00	50.00
14.340	0.87	0.33	13.20	14.40	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 6)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
5.853	0.60	0.18	12.94	13.72	60.00
8.677	0.60	0.19	18.00	18.79	60.00
* 11.505	0.70	0.25	30.90	31.85	60.00
14.334	0.87	0.33	21.46	22.66	60.00
18.814	0.74	0.43	10.96	12.13	60.00
26.877	0.82	0.56	12.34	13.72	60.00
Average					
5.853	0.60	0.18	6.90	7.68	50.00
8.677	0.60	0.19	13.20	13.99	50.00
* 11.505	0.70	0.25	26.90	27.85	50.00
14.334	0.87	0.33	16.10	17.30	50.00
18.814	0.74	0.43	7.50	8.67	50.00
26.877	0.82	0.56	10.40	11.78	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 11)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
2.224	0.60	0.13	11.26	11.99	56.00
4.775	0.60	0.17	10.70	11.47	56.00
7.670	0.60	0.19	16.28	17.07	60.00
* 10.904	0.67	0.23	27.62	28.52	60.00
14.326	0.86	0.33	11.96	13.15	60.00
28.068	0.78	0.57	11.58	12.93	60.00
Average					
2.224	0.60	0.13	7.10	7.83	46.00
4.775	0.60	0.17	4.70	5.47	46.00
7.670	0.60	0.19	10.60	11.39	50.00
* 10.904	0.67	0.23	23.20	24.10	50.00
14.326	0.86	0.33	4.90	6.09	50.00
28.068	0.78	0.57	7.10	8.45	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 11)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
0.154	0.60	0.10	15.28	15.98	65.79
2.088	0.60	0.13	8.22	8.95	56.00
5.384	0.60	0.17	12.04	12.81	60.00
8.072	0.60	0.19	16.16	16.95	60.00
* 11.638	0.71	0.25	29.38	30.34	60.00
16.486	0.83	0.38	14.04	15.25	60.00
Average					
0.154	0.60	0.10	4.60	5.30	55.78
2.088	0.60	0.13	5.80	6.53	46.00
5.384	0.60	0.17	5.40	6.17	50.00
8.072	0.60	0.19	9.70	10.49	50.00
* 11.638	0.71	0.25	24.10	25.06	50.00
16.486	0.83	0.38	5.40	6.61	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: 11MHz (White Antenna)(Channel 1)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
2.154	0.60	0.13	12.32	13.05	56.00
6.927	0.60	0.18	12.80	13.58	60.00
8.947	0.60	0.20	19.48	20.28	60.00
* 11.705	0.72	0.26	26.56	27.53	60.00
14.259	0.86	0.33	12.18	13.37	60.00
27.771	0.79	0.57	9.88	11.24	60.00
Average					
2.154	0.60	0.13	9.20	9.93	46.00
6.927	0.60	0.18	5.60	6.38	50.00
8.947	0.60	0.20	15.00	15.80	50.00
* 11.705	0.72	0.26	22.50	23.47	50.00
14.259	0.86	0.33	6.10	7.29	50.00
27.771	0.79	0.57	5.10	6.46	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 1)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
2.154	0.60	0.13	9.50	10.23	56.00
4.845	0.60	0.17	10.08	10.85	56.00
7.935	0.60	0.19	18.52	19.31	60.00
* 12.041	0.74	0.27	28.00	29.01	60.00
14.064	0.85	0.32	16.94	18.11	60.00
20.931	0.74	0.47	13.60	14.81	60.00
Average					
2.154	0.60	0.13	6.10	6.83	46.00
4.845	0.60	0.17	5.50	6.27	46.00
7.935	0.60	0.19	7.10	7.89	50.00
* 12.041	0.74	0.27	20.90	21.91	50.00
14.664	0.89	0.34	10.90	12.12	50.00
20.931	0.74	0.47	11.50	12.71	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 6)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
4.709	0.60	0.17	10.54	11.31	56.00
5.384	0.60	0.17	11.90	12.67	60.00
7.673	0.60	0.19	16.52	17.31	60.00
9.080	0.60	0.20	18.76	19.56	60.00
* 10.431	0.64	0.22	27.22	28.07	60.00
11.709	0.72	0.26	26.82	27.79	60.00
Average					
4.709	0.60	0.17	4.50	5.27	46.00
5.384	0.60	0.17	4.70	5.47	50.00
7.673	0.60	0.19	10.40	11.19	50.00
9.080	0.60	0.20	11.00	11.80	50.00
10.431	0.64	0.22	22.50	23.35	50.00
* 11.709	0.72	0.26	23.40	24.37	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 6)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
4.916	0.60	0.17	9.74	10.51	56.00
5.451	0.60	0.17	12.44	13.21	60.00
7.064	0.60	0.18	16.20	16.98	60.00
7.802	0.60	0.19	15.16	15.95	60.00
10.431	0.64	0.22	29.42	30.27	60.00
* 11.646	0.71	0.25	30.82	31.78	60.00
Average					
4.946	0.60	0.17	3.80	4.57	46.00
5.451	0.60	0.17	4.50	5.27	50.00
7.064	0.60	0.18	8.80	9.58	50.00
7.802	0.60	0.19	8.90	9.69	50.00
10.802	0.66	0.23	23.30	24.19	50.00
* 11.646	0.71	0.25	25.20	26.16	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 11)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
5.650	0.60	0.18	11.40	12.18	60.00
7.064	0.60	0.18	15.00	15.78	60.00
8.748	0.60	0.19	20.02	20.81	60.00
9.826	0.60	0.20	25.10	25.90	60.00
11.103	0.67	0.24	26.74	27.65	60.00
* 11.978	0.73	0.27	26.92	27.92	60.00
Average					
5.650	0.60	0.18	2.40	3.18	50.00
7.064	0.60	0.18	8.00	8.78	50.00
8.748	0.60	0.19	14.10	14.89	50.00
9.826	0.60	0.20	19.70	20.50	50.00
11.103	0.67	0.24	21.80	22.71	50.00
* 11.978	0.73	0.27	22.70	23.70	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 11)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
5.318	0.60	0.17	11.26	12.03	60.00
5.716	0.60	0.18	10.10	10.88	60.00
7.736	0.60	0.19	16.72	17.51	60.00
8.951	0.60	0.20	22.10	22.90	60.00
10.834	0.66	0.23	30.58	31.47	60.00
* 12.248	0.75	0.27	31.02	32.05	60.00
Average					
5.318	0.60	0.17	6.30	7.07	50.00
5.716	0.60	0.18	1.00	1.78	50.00
7.736	0.60	0.19	9.30	10.09	50.00
8.951	0.60	0.20	18.30	19.10	50.00
10.834	0.66	0.23	26.80	27.69	50.00
* 12.248	0.75	0.27	27.00	28.03	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 1)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
2.224	0.60	0.13	14.45	15.18	56.00
6.463	0.60	0.18	15.14	15.92	60.00
7.545	0.60	0.19	17.56	18.35	60.00
10.439	0.64	0.22	26.21	27.06	60.00
* 12.728	0.78	0.29	27.93	28.99	60.00
16.435	0.84	0.38	18.76	19.98	60.00
Average					
2.224	0.60	0.13	11.50	12.23	46.00
6.463	0.60	0.18	11.40	12.18	50.00
7.545	0.60	0.19	13.90	14.69	50.00
10.439	0.64	0.22	21.90	22.75	50.00
* 12.728	0.78	0.29	25.60	26.66	50.00
16.435	0.84	0.38	12.60	13.82	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 1)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
2.220	0.60	0.13	14.92	15.65	56.00
4.713	0.60	0.17	12.40	13.17	56.00
8.619	0.60	0.19	20.66	21.45	60.00
* 11.111	0.68	0.24	30.78	31.70	60.00
16.873	0.82	0.39	10.81	12.02	60.00
19.392	0.72	0.44	16.64	17.80	60.00
Average					
2.220	0.60	0.13	11.60	12.33	46.00
4.713	0.60	0.17	7.50	8.27	46.00
8.619	0.60	0.19	17.10	17.89	50.00
* 11.111	0.68	0.24	27.90	28.82	50.00
16.873	0.82	0.39	4.90	6.11	50.00
19.392	0.72	0.44	12.20	13.36	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 6)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
2.088	0.60	0.13	12.07	12.80	56.00
5.857	0.60	0.18	12.56	13.34	60.00
9.220	0.60	0.20	21.54	22.34	60.00
* 13.127	0.81	0.30	28.67	29.77	60.00
15.216	0.89	0.35	25.16	26.40	60.00
19.861	0.71	0.45	13.57	14.73	60.00
Average					
2.088	0.60	0.13	10.60	11.33	46.00
5.857	0.60	0.18	9.10	9.88	50.00
9.220	0.60	0.20	17.00	17.80	50.00
* 13.127	0.81	0.30	25.30	26.40	50.00
15.216	0.89	0.35	21.70	22.94	50.00
19.861	0.71	0.45	7.30	8.46	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 6)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
4.513	0.60	0.17	10.99	11.76	56.00
6.326	0.60	0.18	15.45	16.23	60.00
7.338	0.60	0.19	18.91	19.70	60.00
10.502	0.64	0.22	28.87	29.72	60.00
* 12.252	0.75	0.27	32.69	33.72	60.00
14.880	0.89	0.34	26.44	27.68	60.00
Average					
4.513	0.60	0.17	5.90	6.67	46.00
6.326	0.60	0.18	11.80	12.58	50.00
7.338	0.60	0.19	14.90	15.69	50.00
10.502	0.64	0.22	25.80	26.65	50.00
* 12.252	0.75	0.27	30.00	31.03	50.00
14.880	0.89	0.34	23.70	24.94	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 11)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
4.645	0.60	0.17	14.24	15.01	56.00
5.724	0.60	0.18	11.92	12.70	60.00
8.142	0.60	0.19	18.00	18.79	60.00
10.435	0.64	0.22	26.48	27.33	60.00
* 12.115	0.75	0.27	27.85	28.87	60.00
14.611	0.88	0.34	24.53	25.75	60.00
Average					
4.645	0.60	0.17	7.90	8.67	46.00
5.724	0.60	0.18	7.90	8.68	50.00
8.142	0.60	0.19	14.60	15.39	50.00
10.435	0.64	0.22	22.50	23.35	50.00
* 12.115	0.75	0.27	25.00	26.02	50.00
14.611	0.88	0.34	21.00	22.22	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 : Mini PCI Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 11)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Quasi-Peak					
4.912	0.60	0.17	12.46	13.23	56.00
7.603	0.60	0.19	17.09	17.88	60.00
10.705	0.65	0.23	29.63	30.51	60.00
* 12.584	0.77	0.28	31.97	33.02	60.00
15.283	0.89	0.35	25.57	26.81	60.00
20.002	0.70	0.45	17.52	18.67	60.00
Average					
4.912	0.60	0.17	7.80	8.57	46.00
7.603	0.60	0.19	12.80	13.59	50.00
* 10.705	0.65	0.23	26.50	27.38	50.00
12.584	0.77	0.28	25.10	26.15	50.00
15.283	0.89	0.35	22.90	24.14	50.00
20.002	0.70	0.45	13.50	14.65	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

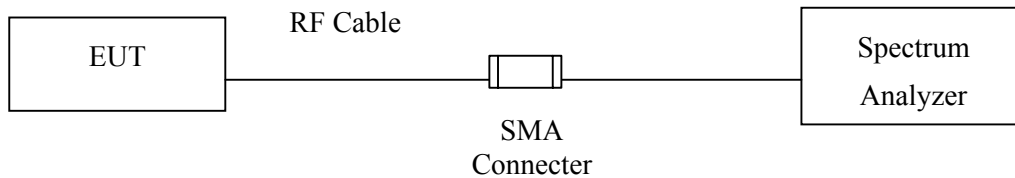
The following test equipments are used during the radiated emission tests:

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

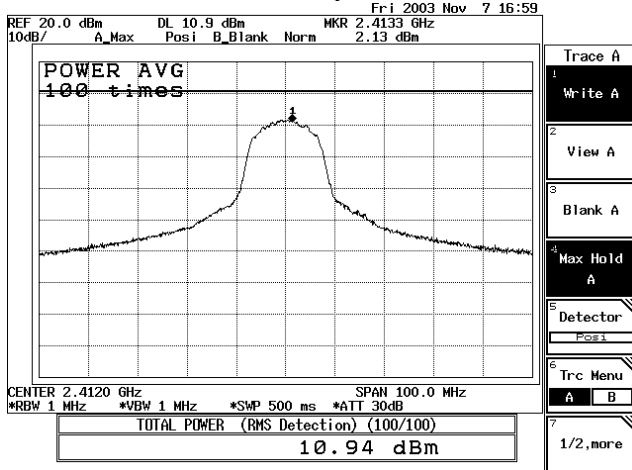
3.4. Test Result of Peak Power Output

Product : Mini PCI Card
 Test Item : Peak Power Output Data
 Test Site : No.3OATS
 Test Mode : 11Mbps

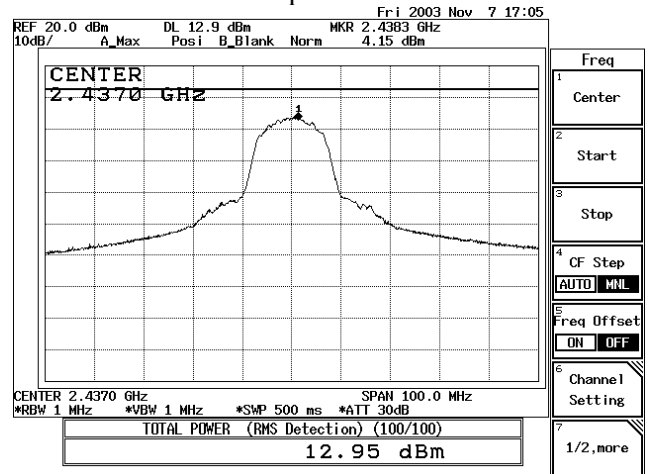
Data Speed: 11Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2413.3	10.94 dBm	1 Watt= 30 dBm	Pass
6	2438.3	12.95 dBm	1 Watt= 30 dBm	Pass
11	2463.3	9.92 dBm	1 Watt= 30 dBm	Pass

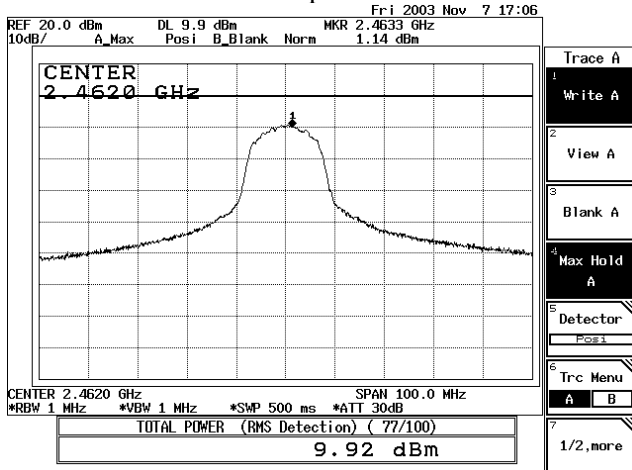
11Mbps-Ch01



11Mbps-Ch06



11Mbps-Ch11

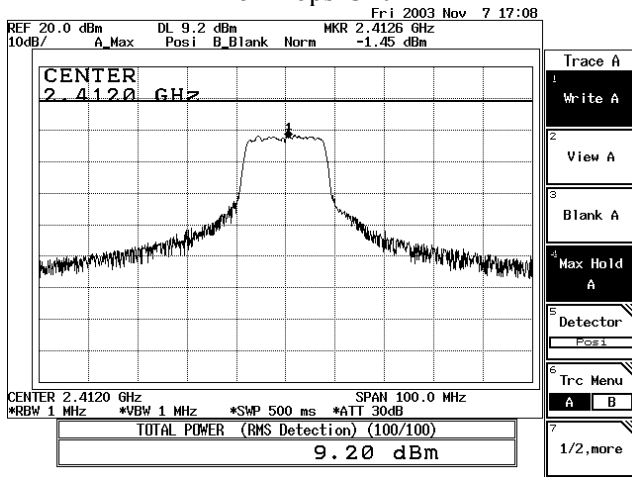


Product : Mini PCI Card
 Test Item : Peak Power Output Data
 Test Site : No.3OATS
 Test Mode : 54Mbps

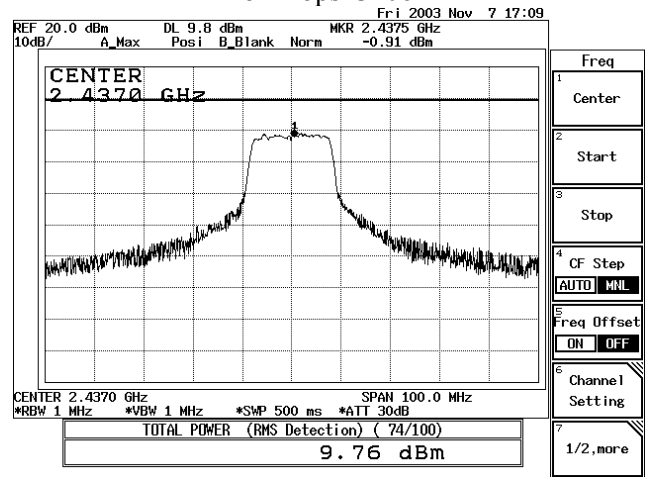
Data Speed: 54Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.6	9.20 dBm	1 Watt= 30 dBm	Pass
6	2437.5	9.76 dBm	1 Watt= 30 dBm	Pass
11	2462.6	10.38 dBm	1 Watt= 30 dBm	Pass

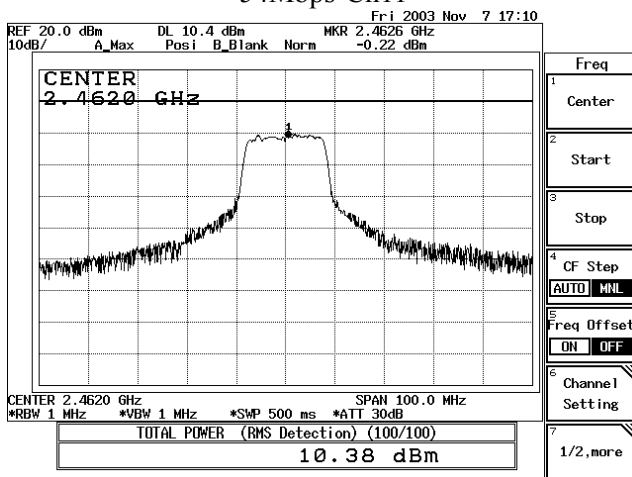
54Mbps-Ch01



54Mbps-Ch06



54Mbps-Ch11



4. Radiated Emission

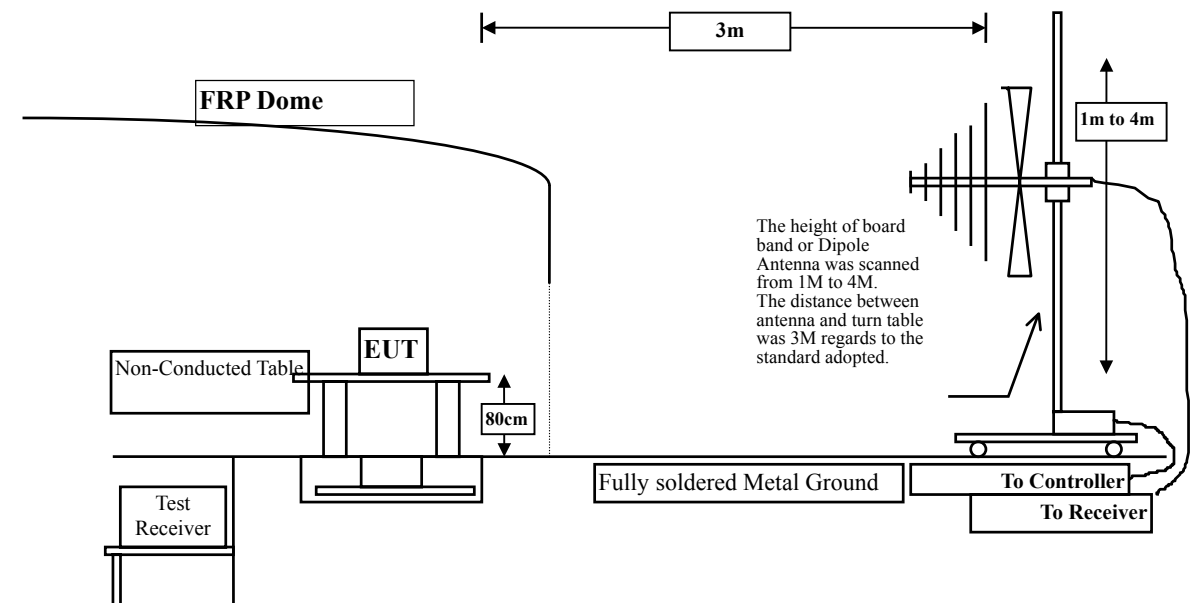
4.1. Test Equipment

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 C63.4:1992 on radiated measurement.

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

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics is checked.

4.5. Test Result of Radiated Emission

Product : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3OATS
 Test Mode : Mode 1: 11MHz (Green Antenna)(Channel 1)

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	46.43	47.19	26.81	74.00
7236.000	5.63	35.86	34.99	44.02	50.51	23.49	74.00
9648.000	7.00	37.84	35.10	53.27	63.01	10.99	74.00
12060.00	8.40	38.62	34.14	41.03	53.91	20.09	74.00
Average Detector							
9648.000	7.00	37.84	35.10	41.76	51.50	2.50	54.00
Vertical							
Peak Detector							
4823.800	4.23	31.21	34.68	47.03	47.79	26.21	74.00
7236.000	5.63	35.86	34.99	43.89	50.38	23.62	74.00
9648.000	7.00	37.84	35.10	47.40	57.14	16.86	74.00
12060.00	8.40	38.62	34.14	40.44	53.32	20.68	74.00
Average Detector							
9648.000	7.00	37.84	35.10	40.34	50.08	3.92	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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: 11MHz (Green Antenna)(Channel 6)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal Peak Detector

4873.900	4.26	31.31	34.69	46.56	47.45	26.55	74.00
7306.900	5.67	35.96	35.01	50.66	57.28	16.72	74.00
9748.000	7.06	37.91	35.10	49.96	59.83	14.17	74.00
12185.00	8.47	38.66	34.09	38.14	51.17	22.83	74.00

Average

7311.000	5.67	35.96	35.01	33.24	39.86	14.14	54.00
9748.000	7.06	37.91	35.10	41.99	51.86	2.14	54.00

Vertical Peak Detector

4873.900	4.26	31.31	34.69	48.37	49.26	24.74	74.00
7314.300	5.67	35.96	35.01	55.36	61.98	12.02	74.00
9747.600	7.06	37.91	35.10	48.10	57.97	16.03	74.00
12185.00	8.47	38.66	34.09	40.70	53.73	20.27	74.00

Average

7311.800	5.67	35.96	35.01	34.27	40.89	13.11	54.00
9748.000	7.06	37.91	35.10	41.73	51.60	2.40	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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: 11MHz (Green Antenna)(Channel 11)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal							
Peak Detector							
4924.000	4.31	31.48	34.69	44.60	45.70	28.30	74.00
7386.000	5.72	36.09	35.02	43.77	50.55	23.45	74.00
9848.000	7.13	37.99	35.07	53.50	63.55	10.45	74.00
12310.00	8.53	38.69	34.03	40.28	53.47	20.53	74.00
Average							
9848.000	7.13	37.99	35.07	41.71	51.76	2.24	54.00
Vertical							
Peak Detector							
4924.000	4.31	31.48	34.69	49.80	50.90	23.10	74.00
7386.000	5.72	36.09	35.02	44.42	51.20	22.80	74.00
9848.000	7.13	37.99	35.07	48.79	58.84	15.16	74.00
12310.00	8.53	38.69	34.03	40.30	53.49	20.51	74.00
Average							
4924.000	4.31	31.48	34.69	39.66	40.76	13.24	54.00
9848.000	7.13	37.99	35.07	40.02	50.07	3.93	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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3OATS
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 1)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector

4824.000	4.23	31.21	34.68	48.70	49.46	24.54	74.00
7236.000	5.63	35.86	34.99	44.09	50.58	23.42	74.00
9648.000	7.00	37.84	35.10	54.28	64.02	9.98	74.00
12060.00	8.40	38.62	34.14	40.75	53.63	20.37	74.00

Average

9648.000	7.00	37.84	35.10	41.71	51.45	2.55	54.00
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Vertical

Peak Detector

4824.000	4.23	31.21	34.68	46.69	47.45	26.55	74.00
9648.000	7.00	37.84	35.10	50.14	59.88	14.12	74.00
12060.00	8.40	38.62	34.14	40.43	53.31	20.69	74.00

Average

9648.000	7.00	37.84	35.10	41.83	51.57	2.43	54.00
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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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 6)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector

4874.000	4.26	31.31	34.69	46.74	47.63	26.37	74.00
7311.000	5.67	35.96	35.01	43.73	50.35	23.65	74.00
9748.000	7.06	37.91	35.10	52.72	62.59	11.41	74.00
12185.00	8.47	38.66	34.09	43.61	56.64	17.36	74.00

Average

9748.000	7.06	37.91	35.10	41.83	51.70	2.30	54.00
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Vertical

Peak Detector

4874.000	4.26	31.31	34.69	48.56	49.45	24.55	74.00
7311.000	5.67	35.96	35.01	43.78	50.40	23.60	74.00
9748.000	7.06	37.91	35.10	47.23	57.10	16.90	74.00

Average

9748.000	7.06	37.91	35.10	32.65	42.52	11.48	54.00
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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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: 54MHz (Green Antenna)(Channel 11)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector

4924.000	4.31	31.48	34.69	46.61	47.71	26.29	74.00
9848.000	7.13	37.99	35.07	51.80	61.85	12.15	74.00
12310.00	8.53	38.69	34.03	41.28	54.47	19.53	74.00

Average

9848.000	7.13	37.99	35.07	40.77	50.82	3.18	54.00
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Vertical

Peak Detector

4924.000	4.31	31.48	34.69	46.95	48.05	25.95	74.00
9848.000	7.13	37.99	35.07	47.29	57.34	16.66	74.00
12310.00	8.53	38.69	34.03	40.36	53.55	20.45	74.00

Average

9848.000	7.13	37.99	35.07	40.03	50.08	3.92	54.00
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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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3OATS
 Test Mode : Mode 3: 11MHz (White Antenna)(Channel 1)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector

4824.000	4.23	31.21	34.68	48.89	49.65	24.35	74.00
7236.500	5.63	35.86	34.99	45.81	52.30	21.70	74.00
9648.000	7.00	37.84	35.10	51.72	61.46	12.54	74.00
12060.00	8.40	38.62	34.14	41.07	53.95	20.05	74.00

Average Detector

9648.000	7.00	37.84	35.10	41.06	50.80	3.20	54.00
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Vertical

Peak Detector

4823.800	4.23	31.21	34.68	51.14	51.90	22.10	74.00
7237.100	5.63	35.86	34.99	45.90	52.39	21.61	74.00
9648.000	7.00	37.84	35.10	47.67	57.41	16.59	74.00
12060.00	8.40	38.62	34.14	40.47	53.35	20.65	74.00

Average Detector

9848.000	7.13	37.99	35.07	41.03	51.08	2.92	54.00
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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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 6)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal Peak Detector

4874.000	4.26	31.31	34.69	50.02	50.91	23.09	74.00
7306.800	5.67	35.96	35.01	48.19	54.81	19.19	74.00
9748.000	7.06	37.91	35.10	52.63	62.50	11.50	74.00
12185.00	8.47	38.66	34.09	40.22	53.25	20.75	74.00

Average

7311.000	5.67	35.96	35.01	34.74	41.36	12.64	54.00
9748.000	7.06	37.91	35.10	41.13	51.00	3.00	54.00

Vertical Peak Detector

4874.000	4.26	31.31	34.69	52.05	52.94	21.06	74.00
7307.500	5.67	35.96	35.01	48.42	55.04	18.96	74.00
9747.800	7.06	37.91	35.10	48.26	58.13	15.87	74.00
12185.00	8.47	38.66	34.09	40.26	53.29	20.71	74.00

Average

7313.400	5.67	35.96	35.01	35.03	41.65	12.35	54.00
9748.000	7.06	37.91	35.10	41.47	51.34	2.66	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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 11)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal							
Peak Detector							
4924.100	4.31	31.48	34.69	47.26	48.36	25.64	74.00
7386.000	5.72	36.09	35.02	43.40	50.18	23.82	74.00
9848.100	7.13	37.99	35.07	51.08	61.13	12.87	74.00
12310.00	8.53	38.69	34.03	40.41	53.60	20.40	74.00
Average							
9848.100	7.13	37.99	35.07	41.57	51.62	2.38	54.00
Vertical							
Peak Detector							
4924.300	4.31	31.48	34.69	49.75	50.85	23.15	74.00
7386.000	5.72	36.09	35.02	42.76	49.54	24.46	74.00
9848.000	7.13	37.99	35.07	46.58	56.63	17.37	74.00
12310.00	8.53	38.69	34.03	40.60	53.79	20.21	74.00
Average							
9648.000	7.00	37.84	35.10	41.46	51.20	2.80	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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3OATS
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 1)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level	dB	dBuV/m
	dB	dB/m	dB	dBuV	dBuV/m		
Horizontal							
Peak Detector							
4824.000	4.23	31.21	34.68	47.80	48.56	25.44	74.00
7236.000	5.63	35.86	34.99	42.94	49.43	24.57	74.00
9648.000	7.00	37.84	35.10	55.06	64.80	9.20	74.00
12060.00	8.40	38.62	34.14	38.32	51.20	22.80	74.00
Average							
9648.000	7.00	37.84	35.10	40.50	50.24	3.76	54.00

Vertical							
Peak Detector							
4824.000	4.23	31.21	34.68	50.90	51.66	22.34	74.00
7236.000	5.63	35.86	34.99	46.74	53.23	20.77	74.00
9648.000	7.00	37.84	35.10	49.76	59.50	14.50	74.00
12060.00	8.40	38.62	34.14	38.96	51.84	22.16	74.00
Average							
9648.000	7.00	37.84	35.10	41.01	50.75	3.25	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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 6)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector

4874.000	4.26	31.31	34.69	44.33	45.22	28.78	74.00
7310.000	5.67	35.96	35.01	45.15	51.77	22.23	74.00
9747.800	7.06	37.91	35.10	52.14	62.01	11.99	74.00
12184.80	8.47	38.66	34.09	40.37	53.40	20.60	74.00

Average

9748.000	7.06	37.91	35.10	41.33	51.20	2.80	54.00
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Vertical

Peak Detector

4874.000	4.26	31.31	34.69	46.58	47.47	26.53	74.00
7311.000	5.67	35.96	35.01	44.35	50.97	23.03	74.00
9748.300	7.07	37.92	35.10	48.06	57.95	16.05	74.00
12185.30	8.47	38.66	34.09	39.67	52.70	21.30	74.00

Average

9748.300	7.07	37.92	35.10	42.08	51.97	2.03	54.00
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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 : Mini PCI Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 11)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector

4924.000	4.31	31.48	34.69	45.05	46.15	27.85	74.00
7386.000	5.72	36.09	35.02	42.73	49.51	24.49	74.00
9848.300	7.13	37.99	35.07	51.04	61.09	12.91	74.00

Average

9848.000	7.13	37.99	35.07	41.35	51.40	2.60	54.00
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Vertical

Peak Detector

4924.000	4.31	31.48	34.69	44.59	45.69	28.31	74.00
7386.000	5.72	36.09	35.02	44.01	50.79	23.21	74.00
9847.900	7.13	37.99	35.07	48.03	58.08	15.92	74.00
12310.00	8.53	38.69	34.03	40.30	53.49	20.51	74.00

Average

9848.000	7.13	37.99	35.07	39.48	49.53	4.47	54.00
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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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: 11MHz (Green Antenna) (Channel 1)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

131.870	1.39	11.69	0.00	18.39	31.48	12.02	43.50
* 165.750	1.57	9.12	0.00	25.01	35.70	7.80	43.50
299.210	2.26	12.53	0.00	20.35	35.14	10.86	46.00
401.120	2.78	14.85	0.00	16.57	34.20	11.80	46.00
563.500	3.61	17.23	0.00	12.12	32.96	13.04	46.00
759.800	4.63	19.54	0.00	7.33	31.51	14.49	46.00

Vertical:

* 165.710	1.57	8.42	0.00	25.18	35.17	8.33	43.50
464.100	3.10	16.37	0.00	11.75	31.22	14.78	46.00
482.200	3.20	16.53	0.00	12.54	32.27	13.73	46.00
599.820	3.80	19.54	0.00	6.79	30.14	15.86	46.00
721.240	4.43	19.74	0.00	11.03	35.20	10.80	46.00
759.820	4.63	20.49	0.00	6.38	31.51	14.49	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: 11MHz (Green Antenna) (Channel 6)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
	Loss	Factor		Level	Level		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

*	112.450	1.29	12.01	0.00	21.28	34.58	8.92	43.50
	134.320	1.40	11.39	0.00	21.33	34.12	9.38	43.50
	199.630	1.74	8.40	0.00	24.13	34.27	9.23	43.50
	299.410	2.26	12.53	0.00	19.70	34.49	11.51	46.00
	593.400	3.77	17.87	0.00	13.18	34.82	11.18	46.00
	667.820	4.16	18.36	0.00	11.70	34.21	11.79	46.00

Vertical:

	112.600	1.29	10.92	0.00	18.42	30.63	12.87	43.50
*	131.750	1.39	10.59	0.00	22.91	34.90	8.60	43.50
	165.700	1.57	8.42	0.00	24.16	34.15	9.35	43.50
	199.630	1.74	8.40	0.00	24.14	34.28	9.22	43.50
	267.560	2.09	12.68	0.00	19.44	34.21	11.79	46.00
	367.210	2.60	14.67	0.00	16.53	33.80	12.20	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: 11MHz (Green Antenna) (Channel 11)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal:							
299.330	2.26	12.53	0.00	19.42	34.21	11.79	46.00
367.120	2.60	13.98	0.00	17.58	34.17	11.83	46.00
482.140	3.20	16.73	0.00	11.57	31.50	14.50	46.00
667.820	4.16	18.36	0.00	8.73	31.24	14.76	46.00
* 721.240	4.43	18.44	0.00	13.36	36.23	9.77	46.00
801.210	4.85	19.20	0.00	10.25	34.30	11.70	46.00
Vertical:							
58.019	1.01	5.30	0.00	18.42	24.73	15.27	40.00
276.964	2.14	12.08	0.00	18.17	32.39	13.61	46.00
484.639	3.21	16.55	0.00	15.90	35.66	10.34	46.00
495.579	3.27	16.40	0.00	11.70	31.37	14.63	46.00
644.184	4.04	17.96	0.00	11.07	33.07	12.93	46.00
* 796.425	4.82	19.32	0.00	15.85	39.99	6.01	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 1)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

* 241.460	1.96	10.67	0.00	23.84	36.47	9.53	46.00
323.423	2.38	12.22	0.00	15.62	30.22	15.78	46.00
493.674	3.26	16.30	0.00	10.17	29.73	16.27	46.00
518.270	3.39	16.70	0.00	7.40	27.49	18.51	46.00
753.627	4.59	18.71	0.00	4.72	28.03	17.97	46.00
946.622	5.59	19.98	0.00	6.48	32.05	13.95	46.00

Vertical:

219.669	1.85	8.99	0.00	17.40	28.23	17.77	46.00
* 268.308	2.10	12.48	0.00	20.19	34.77	11.23	46.00
519.325	3.39	16.74	0.00	9.76	29.89	16.11	46.00
631.237	3.97	18.65	0.00	5.30	27.92	18.08	46.00
898.583	5.35	20.90	0.00	5.94	32.20	13.80	46.00
941.772	5.57	21.27	0.00	6.10	32.93	13.07	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 6)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
	Loss	Factor		Level	Level		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal:							
58.019	1.01	5.72	0.00	18.42	25.15	14.85	40.00
276.964	2.14	11.85	0.00	18.17	32.16	13.84	46.00
349.844	2.51	13.15	0.00	5.09	20.75	25.25	46.00
372.868	2.64	13.97	0.00	21.59	38.20	7.80	46.00
* 470.582	3.14	16.70	0.00	19.04	38.88	7.12	46.00
495.579	3.27	16.40	0.00	11.70	31.37	14.63	46.00
753.627	4.59	18.71	0.00	4.72	28.03	17.97	46.00
Vertical:							
285.879	2.19	12.15	0.00	14.90	29.24	16.76	46.00
299.932	2.26	12.06	0.00	8.56	22.88	23.12	46.00
* 484.639	3.21	16.55	0.00	15.90	35.66	10.34	46.00
587.928	3.75	19.61	0.00	5.34	28.69	17.31	46.00
644.184	4.04	17.96	0.00	11.07	33.07	12.93	46.00
875.302	5.22	19.86	0.00	3.00	28.08	17.92	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: 54MHz (Green Antenna) (Channel 11)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

241.266	1.96	10.67	0.00	20.21	32.84	13.16	46.00
419.556	2.87	15.90	0.00	0.87	19.65	26.35	46.00
512.159	3.35	16.95	0.00	8.29	28.59	17.41	46.00
702.205	4.33	18.30	0.00	3.44	26.08	19.92	46.00
790.954	4.79	19.42	0.00	2.68	26.89	19.11	46.00
* 872.400	5.21	19.24	0.00	13.82	38.27	7.73	46.00
946.622	5.59	19.98	0.00	6.48	32.05	13.95	46.00

Vertical:

39.985	0.92	12.54	0.00	8.09	21.55	18.45	40.00
170.650	1.59	8.52	0.00	13.75	23.87	19.63	43.50
* 268.308	2.10	12.48	0.00	20.19	34.77	11.23	46.00
519.325	3.39	16.74	0.00	9.76	29.89	16.11	46.00
631.237	3.97	18.65	0.00	5.30	27.92	18.08	46.00
898.583	5.35	20.90	0.00	5.94	32.20	13.80	46.00
941.772	5.57	21.27	0.00	6.10	32.93	13.07	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 1)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

*	66.380	1.05	5.66	0.00	27.48	34.20	5.80	40.00
	131.800	1.39	11.69	0.00	20.21	33.30	10.20	43.50
	299.170	2.26	12.53	0.00	19.98	34.77	11.23	46.00
	500.450	3.30	16.36	0.00	17.04	36.70	9.30	46.00
	565.820	3.63	17.05	0.00	14.82	35.50	10.50	46.00
	801.150	4.85	19.20	0.00	9.41	33.46	12.54	46.00

Vertical:

	151.250	1.49	9.28	0.00	22.60	33.38	10.12	43.50
	165.800	1.57	8.42	0.00	23.85	33.84	9.66	43.50
*	231.270	1.90	9.87	0.00	25.00	36.78	9.22	46.00
	333.412	2.43	12.61	0.00	21.55	36.60	9.40	46.00
	401.200	2.78	16.47	0.00	16.15	35.40	10.60	46.00
	565.820	3.63	19.19	0.00	13.11	35.93	10.07	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 6)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

*	66.330	1.05	5.66	0.00	25.24	31.96	8.04	40.00
	131.750	1.39	11.69	0.00	22.21	35.30	8.20	43.50
	299.330	2.26	12.53	0.00	15.31	30.10	15.90	46.00
	333.210	2.43	12.56	0.00	16.82	31.82	14.18	46.00
	599.640	3.80	17.65	0.00	10.37	31.82	14.18	46.00
	662.920	4.13	18.42	0.00	7.46	30.02	15.98	46.00

Vertical:

*	67.500	1.06	6.07	0.00	24.38	31.52	8.48	40.00
	199.630	1.74	8.40	0.00	24.24	34.38	9.12	43.50
	265.340	2.08	12.86	0.00	16.33	31.27	14.73	46.00
	354.520	2.54	13.85	0.00	18.43	34.82	11.18	46.00
	599.600	3.80	19.54	0.00	10.90	34.25	11.75	46.00
	663.820	4.13	17.70	0.00	13.57	35.40	10.60	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: 11MHz (White Antenna) (Channel 11)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

* 151.320	1.49	10.40	0.00	20.72	32.62	10.88	43.50
263.400	2.07	12.88	0.00	19.42	34.38	11.62	46.00
331.520	2.42	12.44	0.00	18.84	33.70	12.30	46.00
579.350	3.70	17.73	0.00	11.67	33.10	12.90	46.00
662.820	4.13	18.42	0.00	12.26	34.82	11.18	46.00
801.320	4.85	19.20	0.00	9.40	33.45	12.55	46.00

Vertical:

151.400	1.49	9.28	0.00	21.84	32.62	10.88	43.50
* 231.320	1.91	9.87	0.00	23.62	35.40	10.60	46.00
299.320	2.26	12.14	0.00	20.21	34.61	11.39	46.00
500.630	3.30	16.26	0.00	14.07	33.63	12.37	46.00
563.600	3.61	19.05	0.00	8.60	31.27	14.73	46.00
664.920	4.14	17.63	0.00	13.00	34.77	11.23	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 1)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

131.540	1.39	11.69	0.00	20.81	33.90	9.60	43.50
* 166.800	1.57	9.09	0.00	23.97	34.63	8.87	43.50
333.320	2.43	12.56	0.00	21.52	36.52	9.48	46.00
500.420	3.30	16.36	0.00	14.73	34.39	11.61	46.00
582.300	3.72	18.17	0.00	10.26	32.15	13.85	46.00
667.820	4.16	18.36	0.00	9.13	31.64	14.36	46.00

Vertical:

66.300	1.05	5.86	0.00	23.89	30.80	9.20	40.00
* 165.200	1.57	8.42	0.00	24.71	34.70	8.80	43.50
333.160	2.43	12.61	0.00	17.85	32.90	13.10	46.00
364.200	2.59	14.64	0.00	16.69	33.93	12.07	46.00
599.800	3.80	19.54	0.00	9.06	32.41	13.59	46.00
667.820	4.16	17.64	0.00	9.77	31.57	14.43	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 6)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
	Loss	Factor		Level	Level		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

156.100	1.52	10.07	0.00	21.98	33.57	9.93	43.50
* 168.300	1.58	8.96	0.00	23.63	34.18	9.32	43.50
231.320	1.91	9.57	0.00	20.00	31.48	14.52	46.00
364.550	2.59	13.96	0.00	17.14	33.70	12.30	46.00
498.120	3.28	16.31	0.00	15.01	34.60	11.40	46.00
662.820	4.13	18.42	0.00	11.14	33.70	12.30	46.00

Vertical:

* 80.820	1.13	7.63	0.00	22.65	31.42	8.58	40.00
134.300	1.40	10.49	0.00	22.32	34.22	9.28	43.50
166.820	1.57	8.47	0.00	24.78	34.82	8.68	43.50
299.330	2.26	12.14	0.00	19.87	34.27	11.73	46.00
500.600	3.30	16.26	0.00	13.81	33.37	12.63	46.00
599.820	3.80	19.54	0.00	8.20	31.55	14.45	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 : Mini PCI Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: 54MHz (White Antenna) (Channel 11)

Frequency	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
	Loss	Factor		Level	Level		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

*	66.270	1.05	5.66	0.00	25.75	32.47	7.53	40.00
	80.800	1.13	7.99	0.00	22.30	31.42	8.58	40.00
	333.400	2.43	12.56	0.00	17.48	32.48	13.52	46.00
	364.520	2.59	13.96	0.00	18.29	34.85	11.15	46.00
	500.310	3.30	16.36	0.00	13.57	33.23	12.77	46.00
	599.740	3.80	17.65	0.00	11.15	32.60	13.40	46.00

Vertical:

*	66.700	1.06	5.96	0.00	23.68	30.70	9.30	40.00
	165.870	1.57	8.42	0.00	22.68	32.67	10.83	43.50
	299.470	2.26	12.14	0.00	18.30	32.70	13.30	46.00
	363.700	2.59	14.64	0.00	15.28	32.52	13.48	46.00
	561.270	3.60	19.04	0.00	9.43	32.07	13.93	46.00
	667.580	4.16	17.64	0.00	9.89	31.69	14.31	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

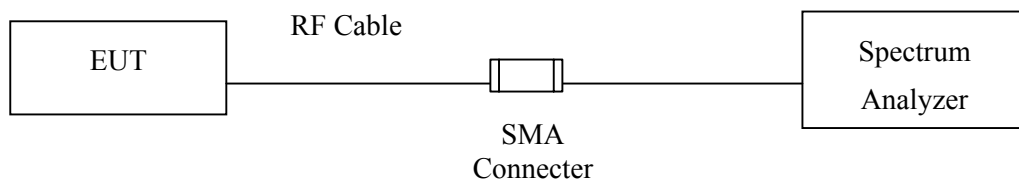
The following test equipments are used during the band edge tests:

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

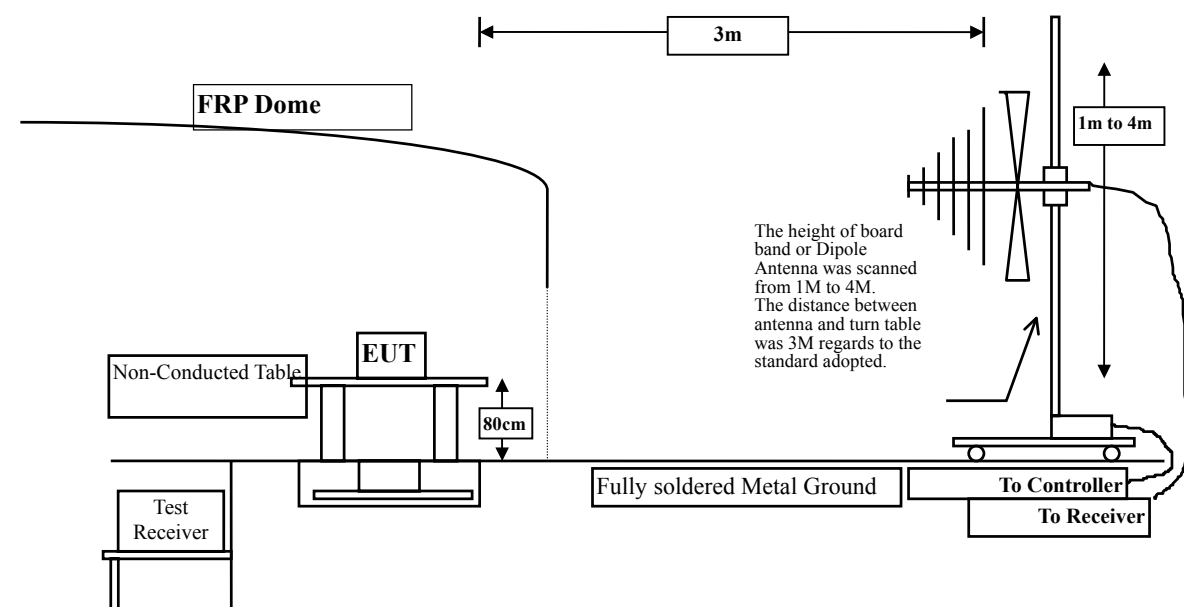
- Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

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 C63.4:1992 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. Test Result of Band Edge

Product : Mini PCI Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : 11Mbps (Green Antenna)

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)

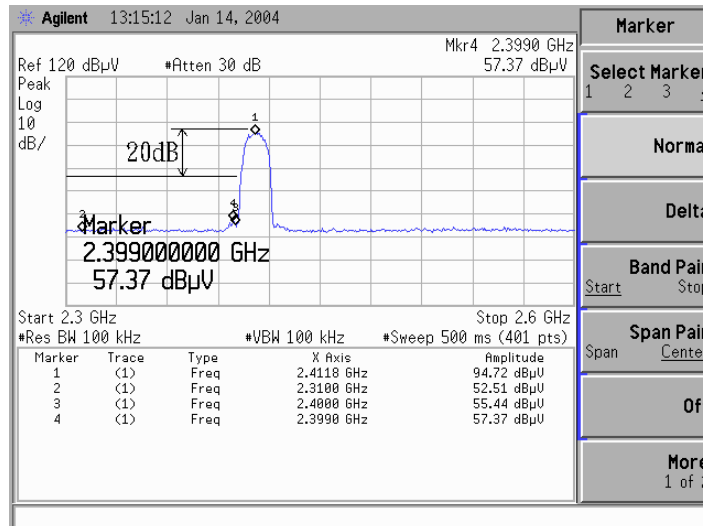
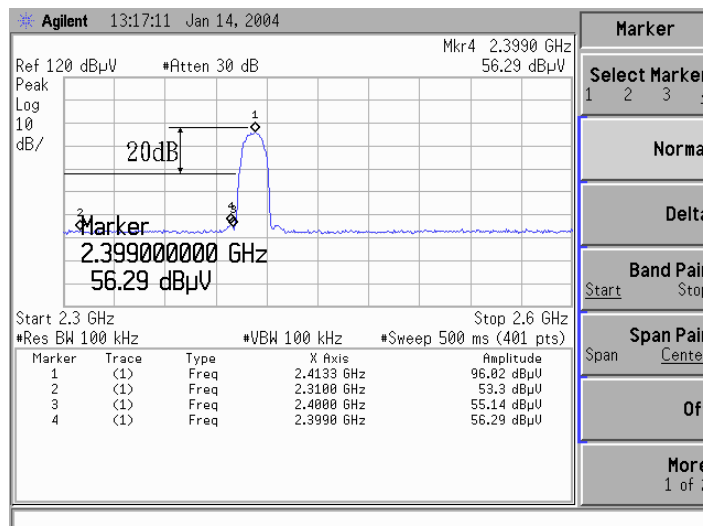


Figure Channel 1: (Vertical)



Product : Mini PCI Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : 11Mbps (Green Antenna)

RF Radiated Measurement (Peak):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2490.500	64.72	60.17	74.00	54.00	Pass
11(Vertical)	2491.300	63.58	59.03	74.00	54.00	Pass

RF Radiated Measurement (Average):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2490.500	54.17	49.62	74.00	54.00	Pass
11(Vertical)	2491.300	53.69	49.14	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

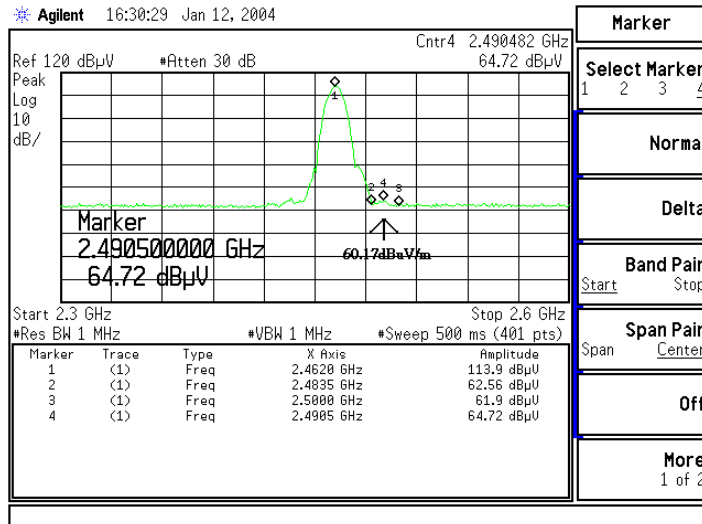
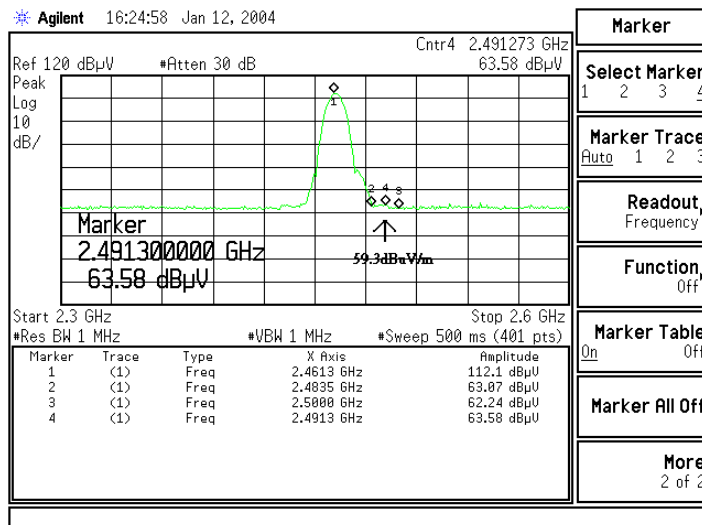


Figure Channel 11: (Vertical)



Product : Mini PCI Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : 54Mbps (Green Antenna)

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)

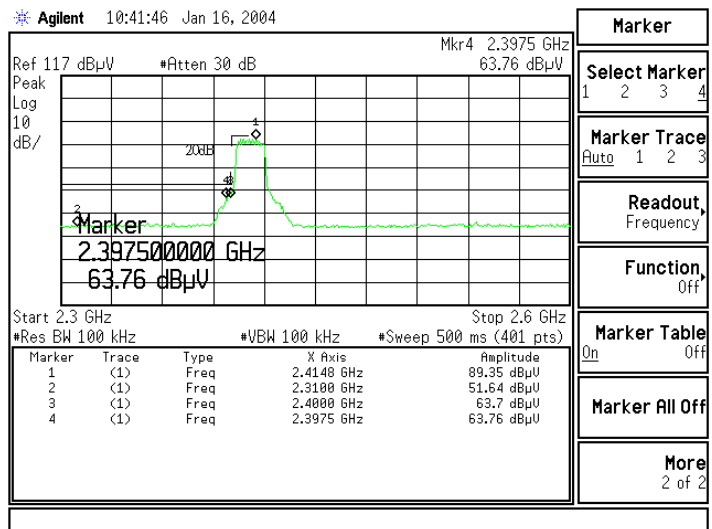
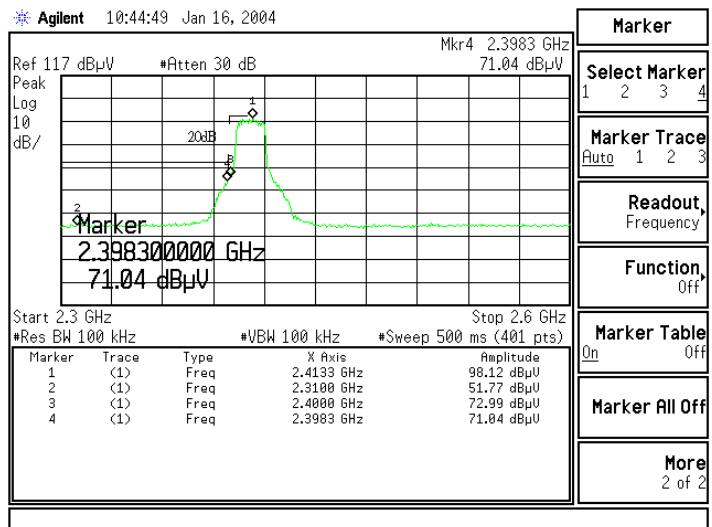


Figure Channel 1: (Vertical)



Product : Mini PCI Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : 54Mbps (Green Antenna)

RF Radiated Measurement(Peak):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2485.300	68.82	64.27	74.00	54.00	Pass
11(Vertical)	2484.500	69.43	64.88	74.00	54.00	Pass

RF Radiated Measurement (Average):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2485.300	55.36	50.81	74.00	54.00	Pass
11(Vertical)	2484.500	55.26	50.71	74.00	54.00	Pass

Figure Channel 11:

(Horizontal)

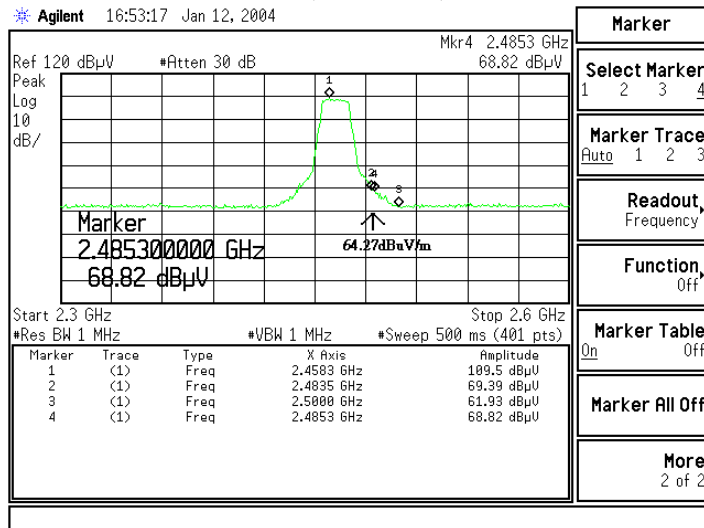
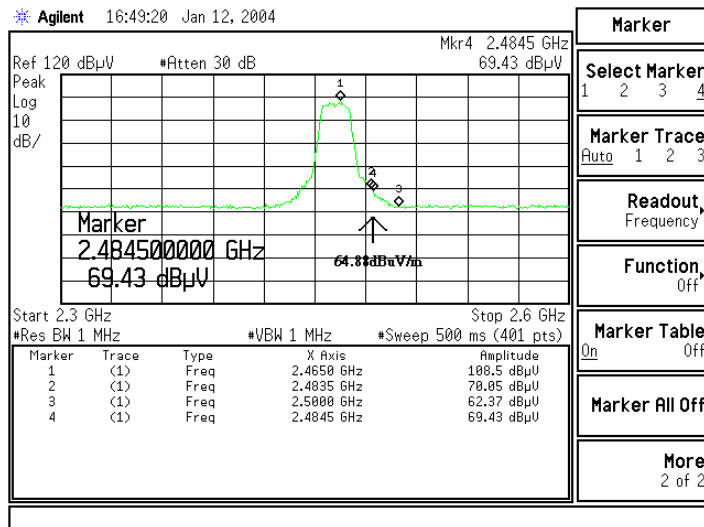


Figure Channel 11:

(Vertical)



Product : Mini PCI Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : 11Mbps (White Antenna)

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)

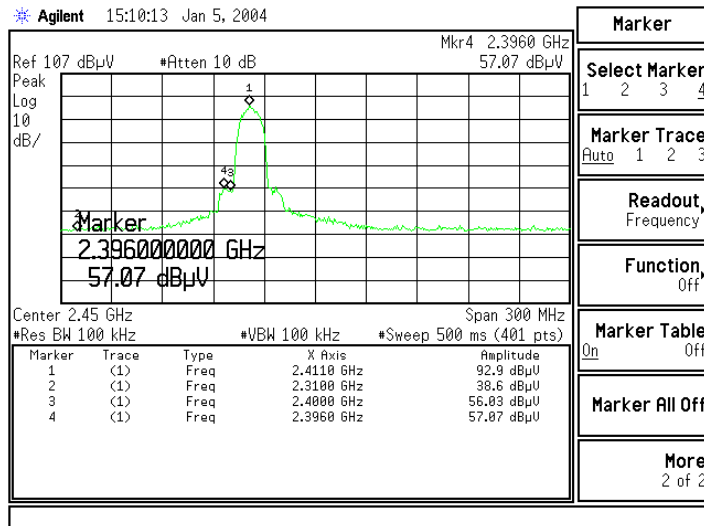
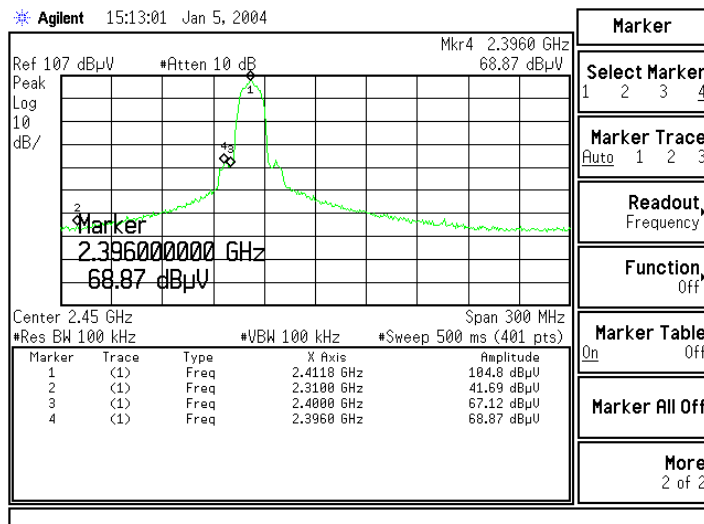


Figure Channel 1: (Vertical)



Product : Mini PCI Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : 11Mbps (White Antenna)

RF Radiated Measurement (Peak):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2485.300	65.97	61.53	74.00	54.00	Pass
11(Vertical)	2484.900	67.67	63.23	74.00	54.00	Pass

RF Radiated Measurement (Average):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2485.300	47.26	42.82	74.00	54.00	Pass
11(Vertical)	2484.900	47.47	43.03	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

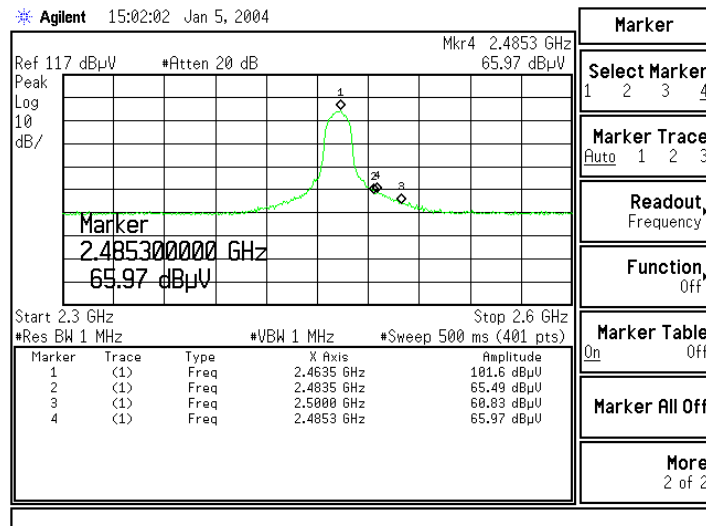
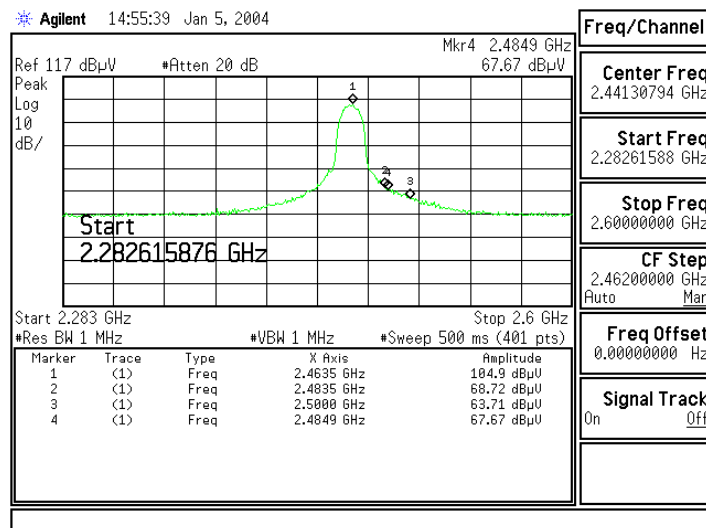


Figure Channel 11: (Vertical)



Product : Mini PCI Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : 54Mbps (White Antenna)

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)

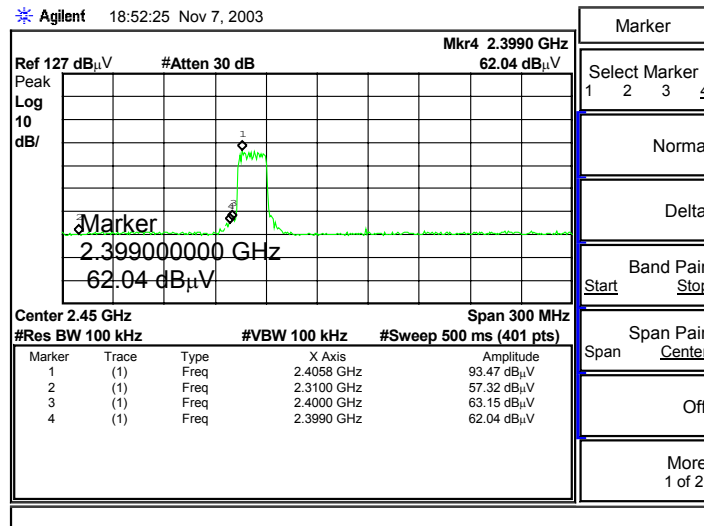
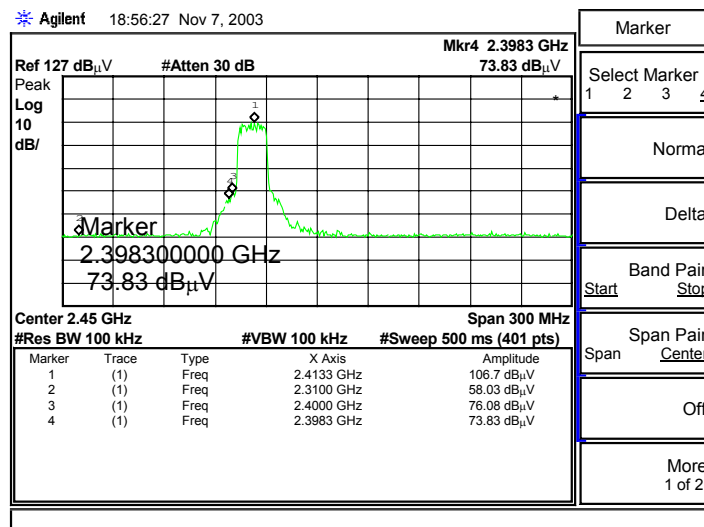


Figure Channel 1: (Vertical)



Product : Mini PCI Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : 54Mbps (White Antenna)

RF Radiated Measurement(Peak):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2483.800	67.77	63.33	74.00	54.00	Pass
11(Vertical)	2485.300	70.02	65.58	74.00	54.00	Pass

RF Radiated Measurement (Average):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2483.800	48.12	43.68	74.00	54.00	Pass
11(Vertical)	2485.300	47.46	43.02	74.00	54.00	Pass

Figure Channel 11:

(Horizontal)

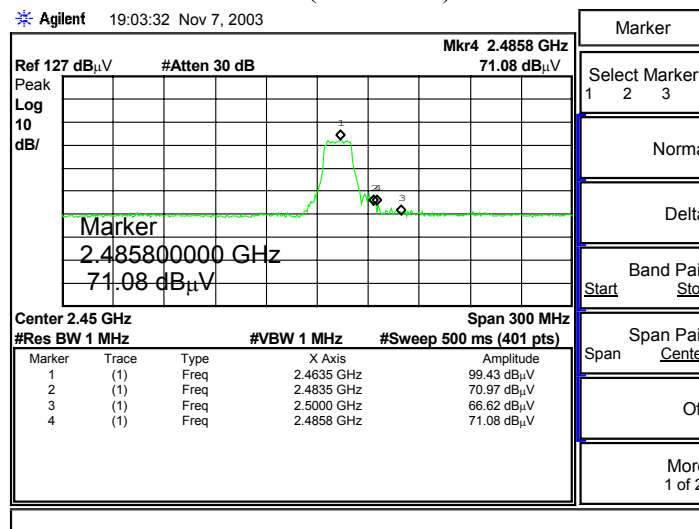
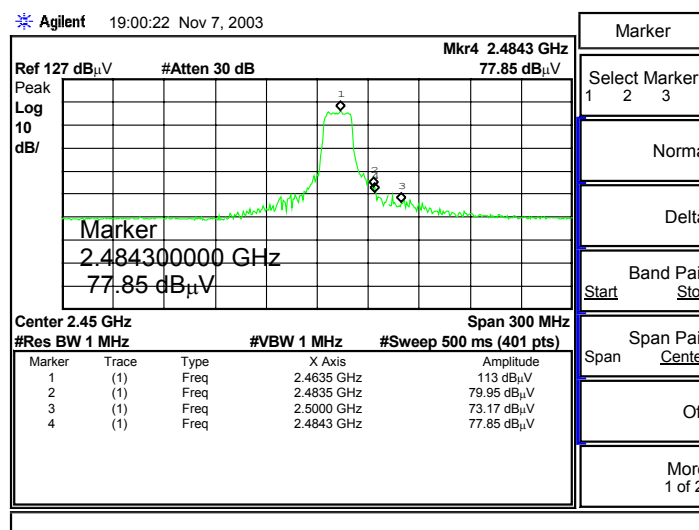


Figure Channel 11:

(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

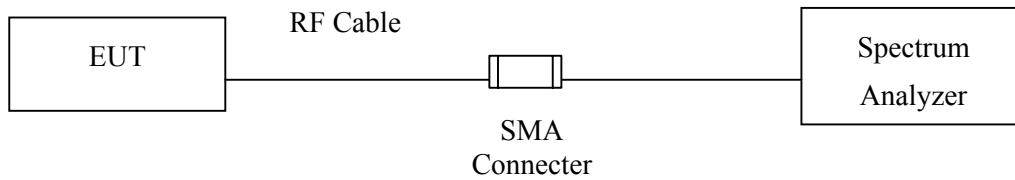
6.1. Test Equipment

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

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

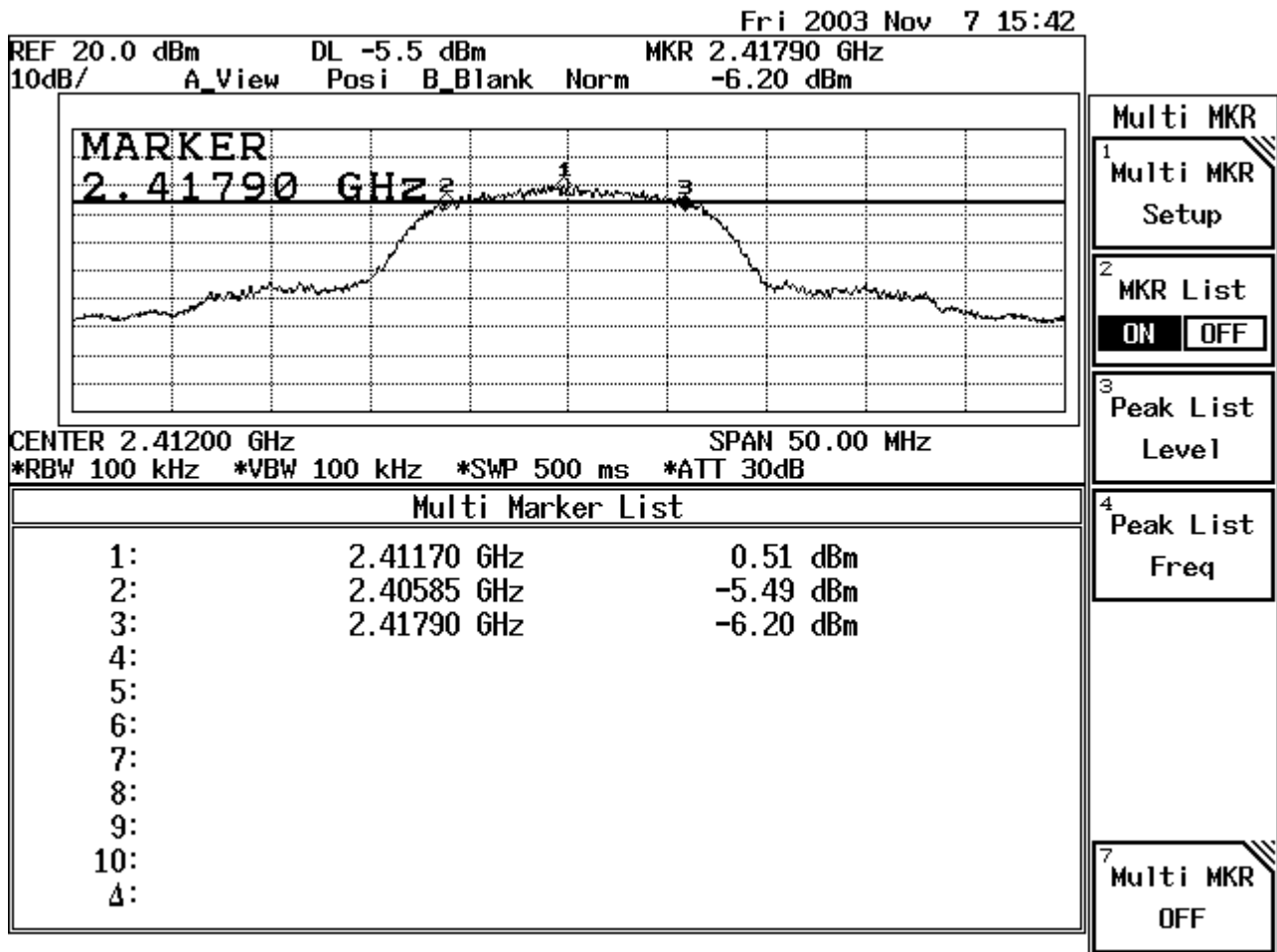
The minimum bandwidth shall be at least 500kHz.

6.4. Test Result of Occupied Bandwidth

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

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (11Mbps)	2417.9	12050	>500	Pass

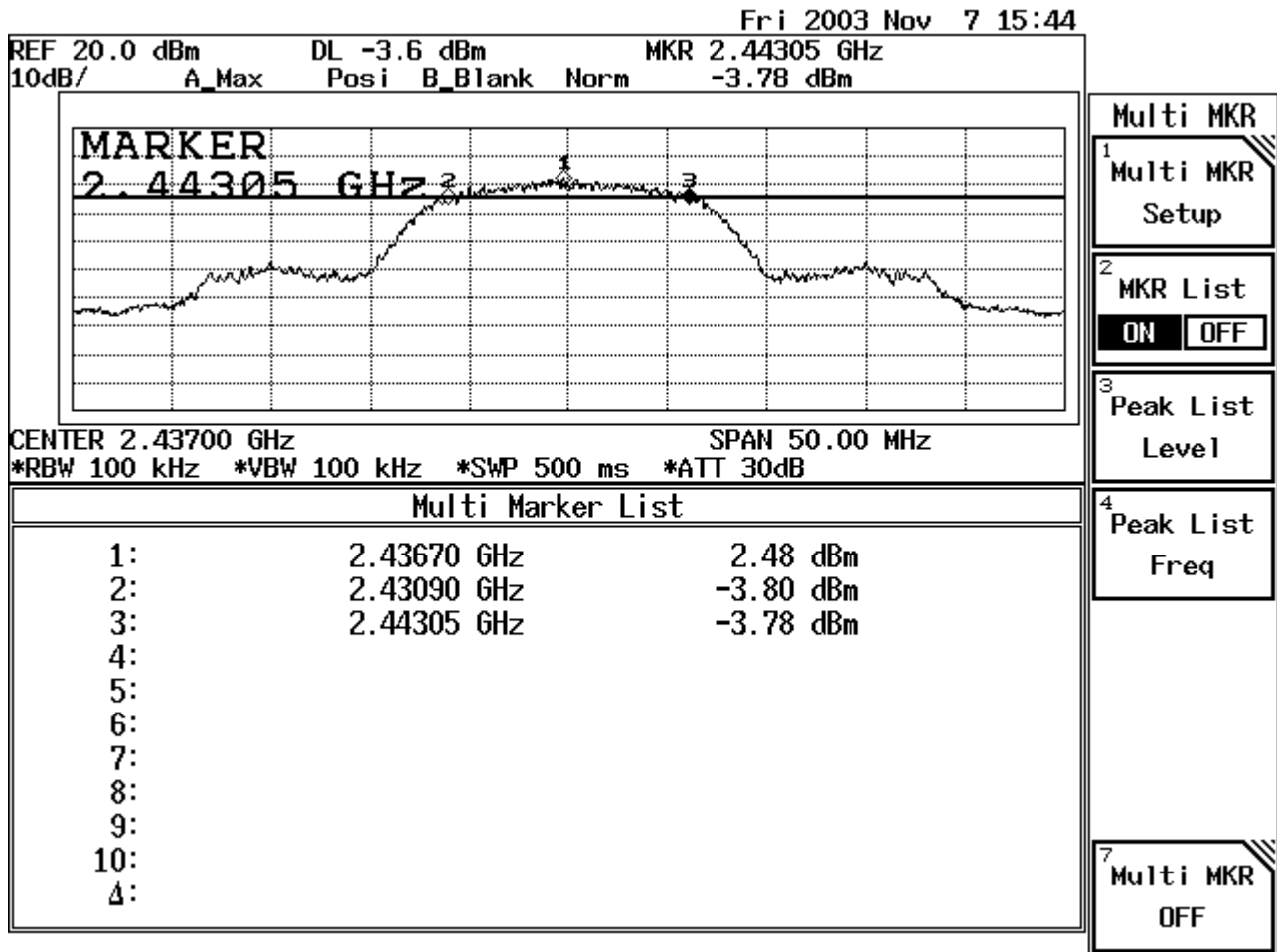
Figure Channel 1: 11Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (11Mbps)	2443.05	12150	>500	Pass

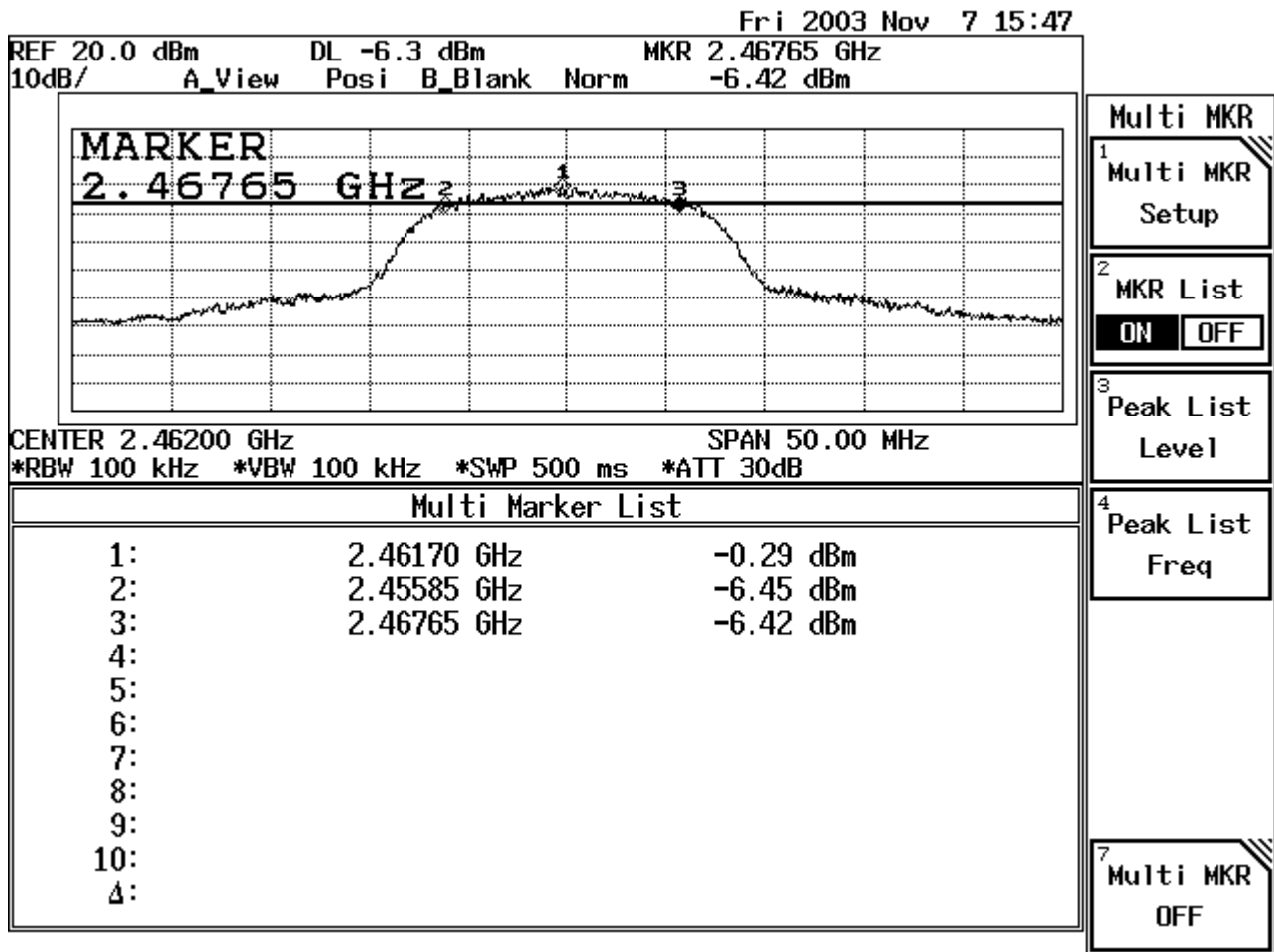
Figure Channel 6: 11Mbps



Product : Mini PCI Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : 11Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (11Mbps)	2467.65	11800	>500	Pass

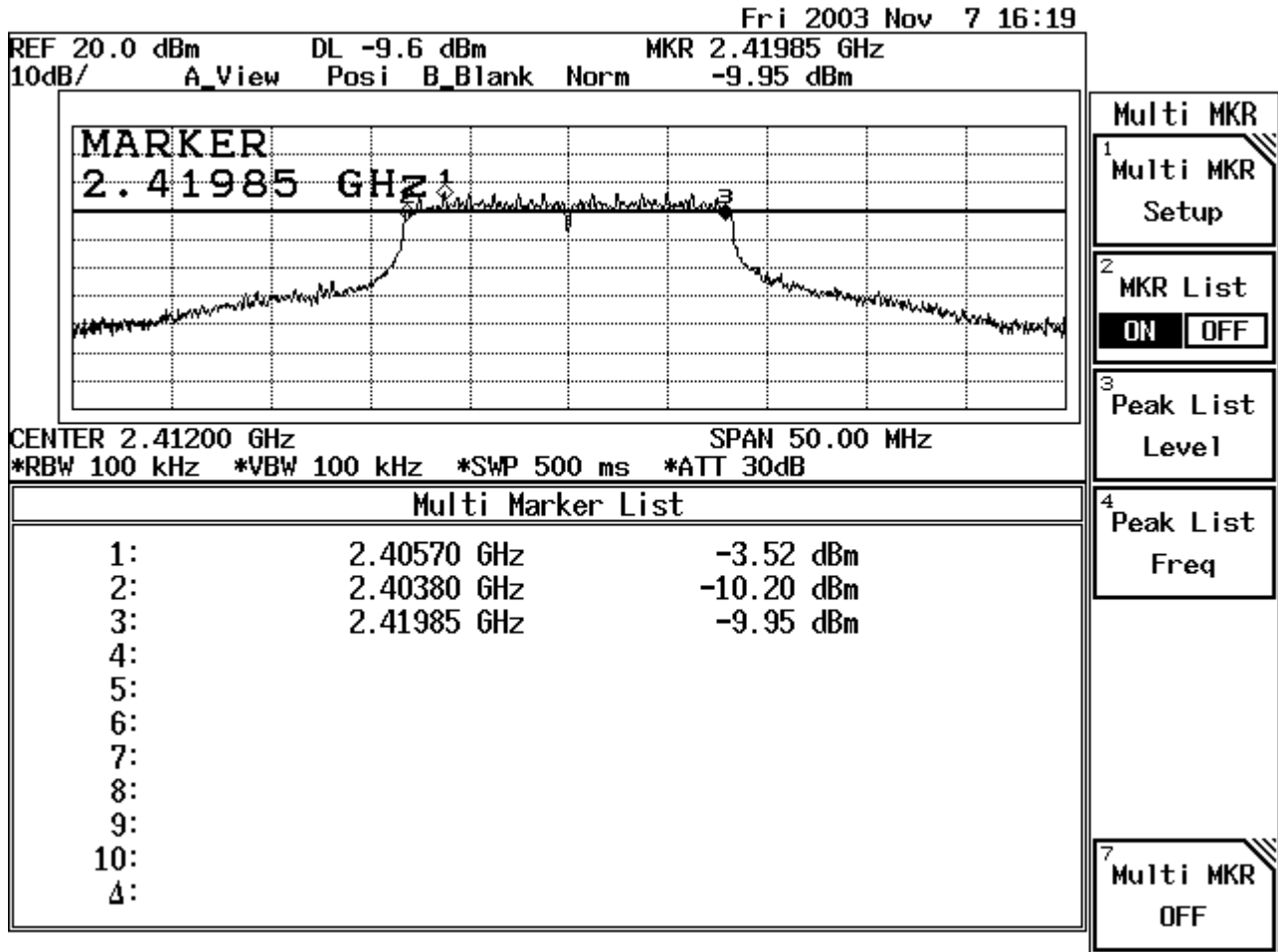
Figure Channel 11: 11Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (54Mbps)	2419.85	16050	>500	Pass

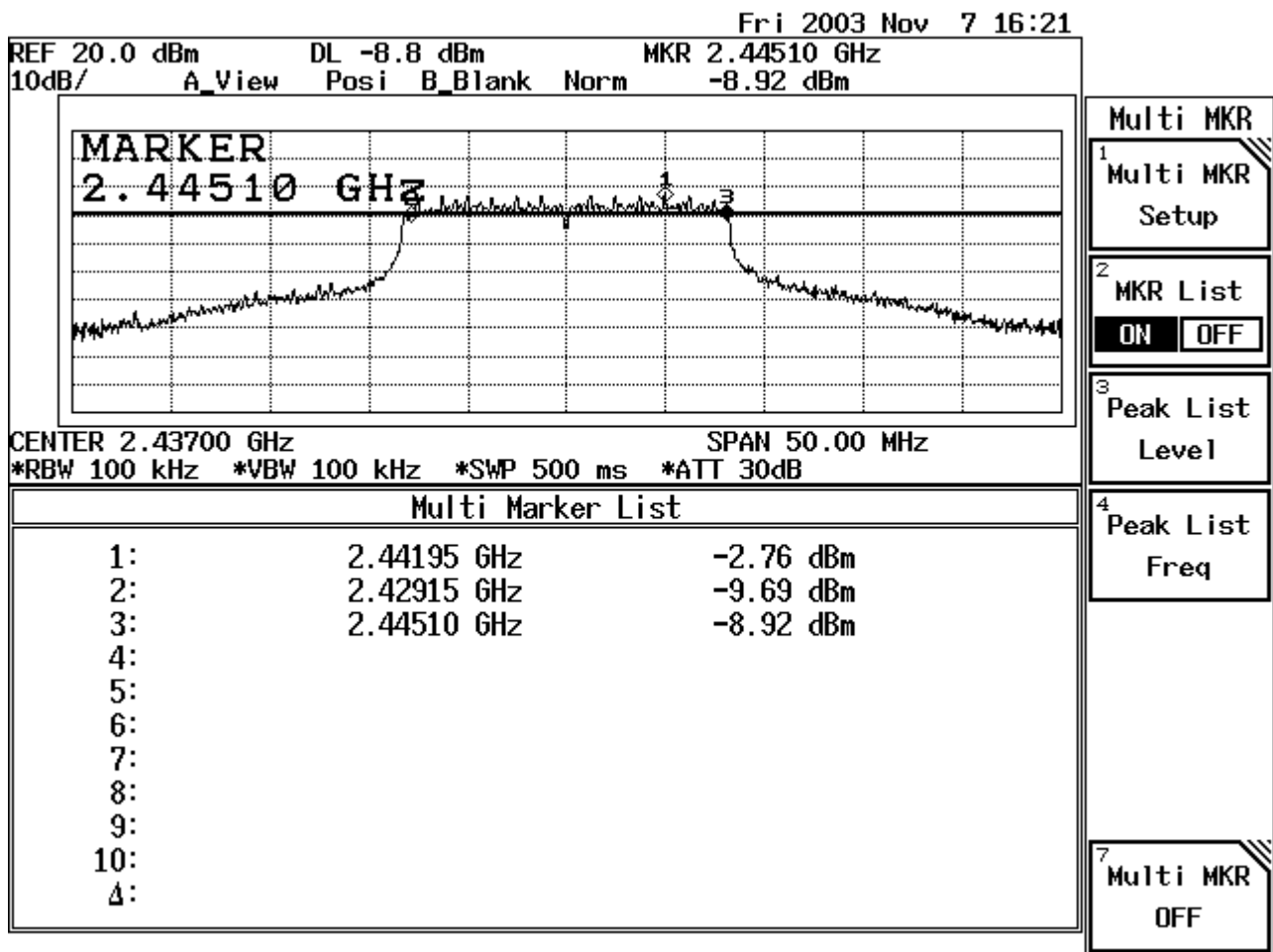
Figure Channel 1: 54Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (54Mbps)	2445.10	15950	>500	Pass

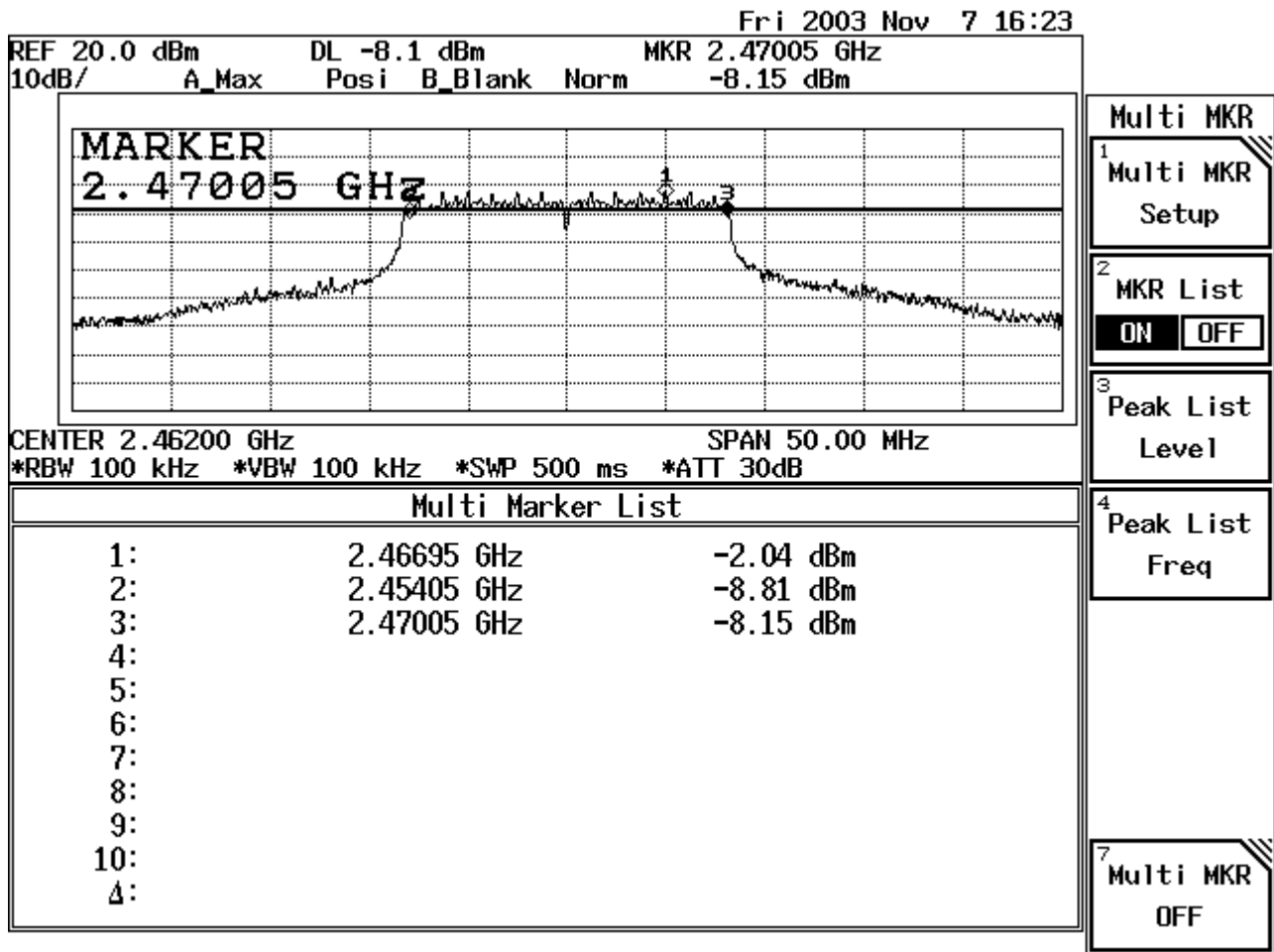
Figure Channel 6: 54Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (54Mbps)	2470.05	16000	>500	Pass

Figure Channel 11: 54Mbps



7. Power Density

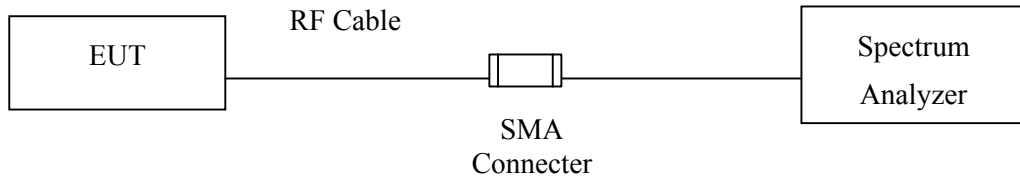
7.1. Test Equipment

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, 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

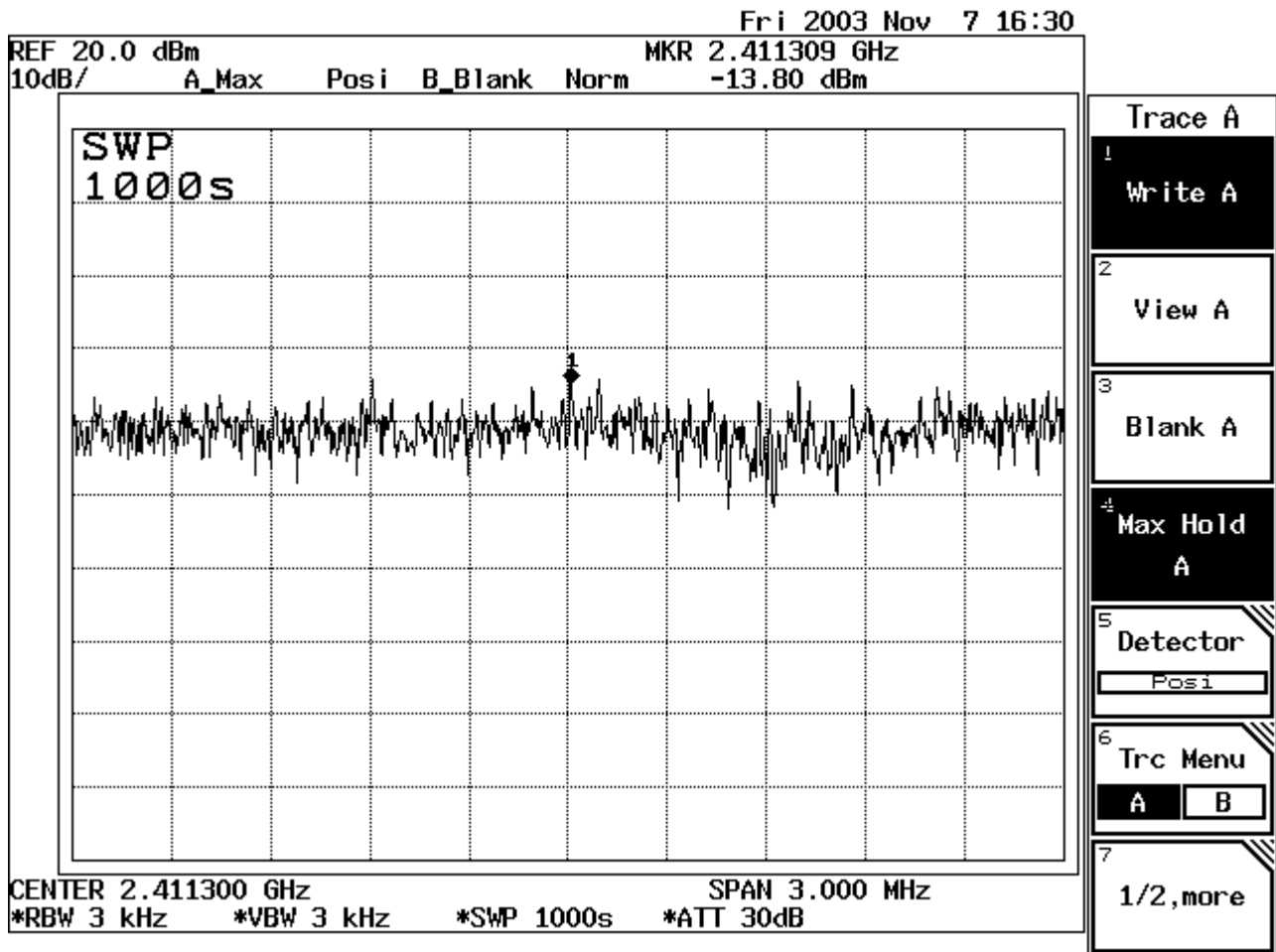
The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

7.4. Test Result of Power Density

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (11Mbps)	2411.309	-13.80	< 8dBm	Pass

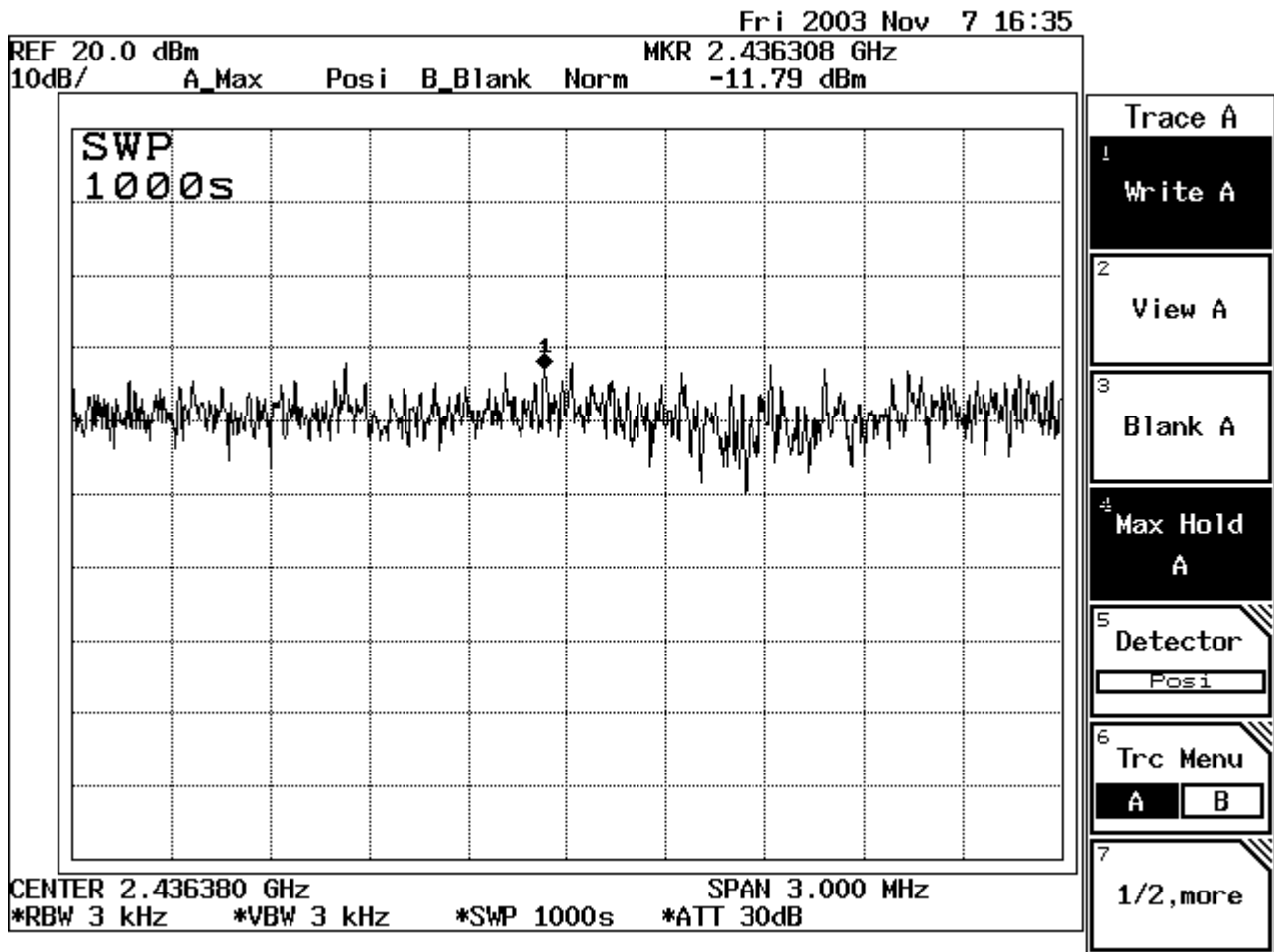
Figure Channel 1: 11Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (11Mbps)	2436.308	-11.79	< 8dBm	Pass

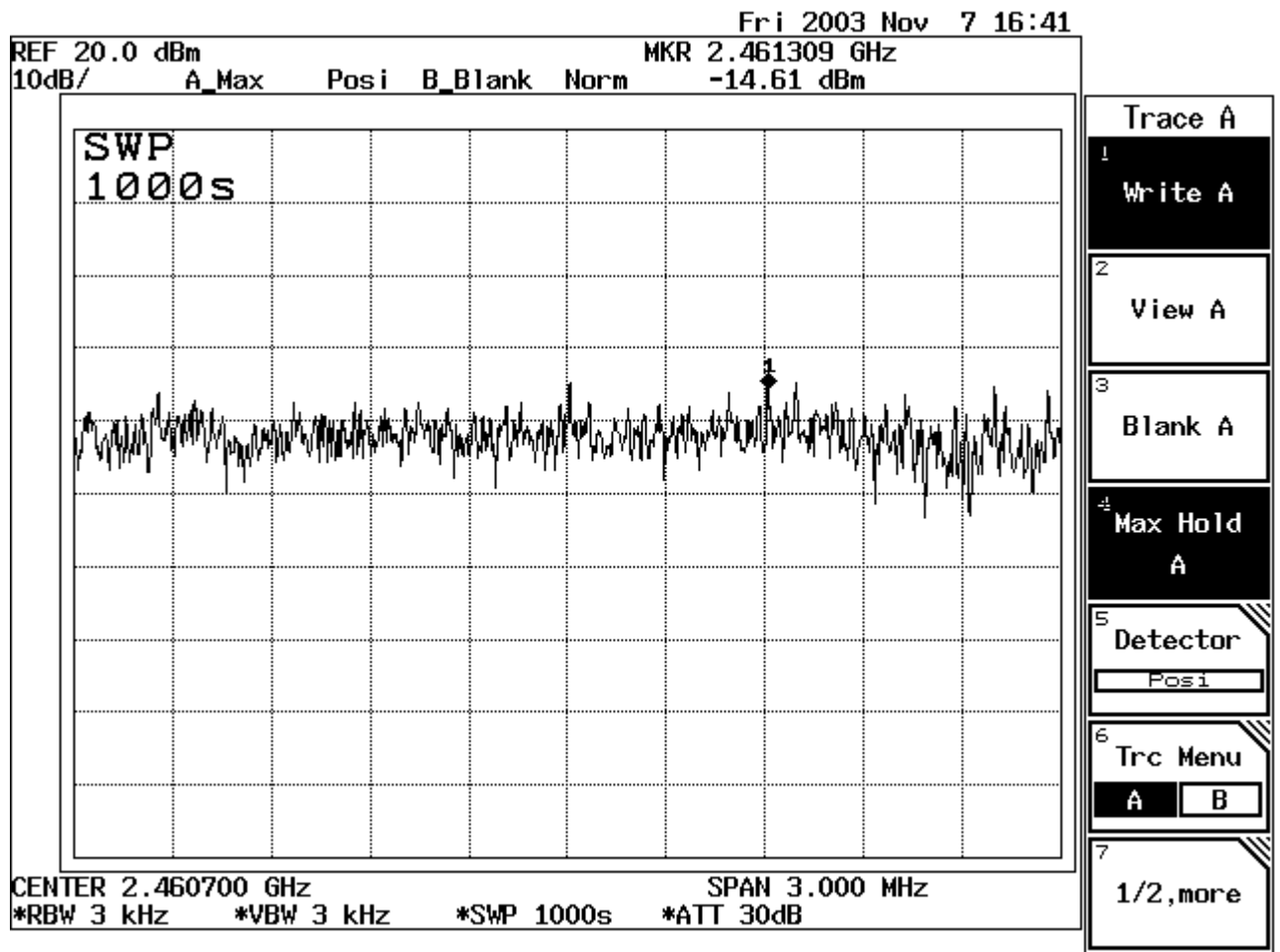
Figure Channel 6: 11Mbps



Product : Mini PCI Card
 Test Item : Density Data
 Test Site : No.3 OATS
 Test Mode : 11Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (11Mbps)	2461.309	-14.61	< 8dBm	Pass

Figure Channel 11: 11Mbps

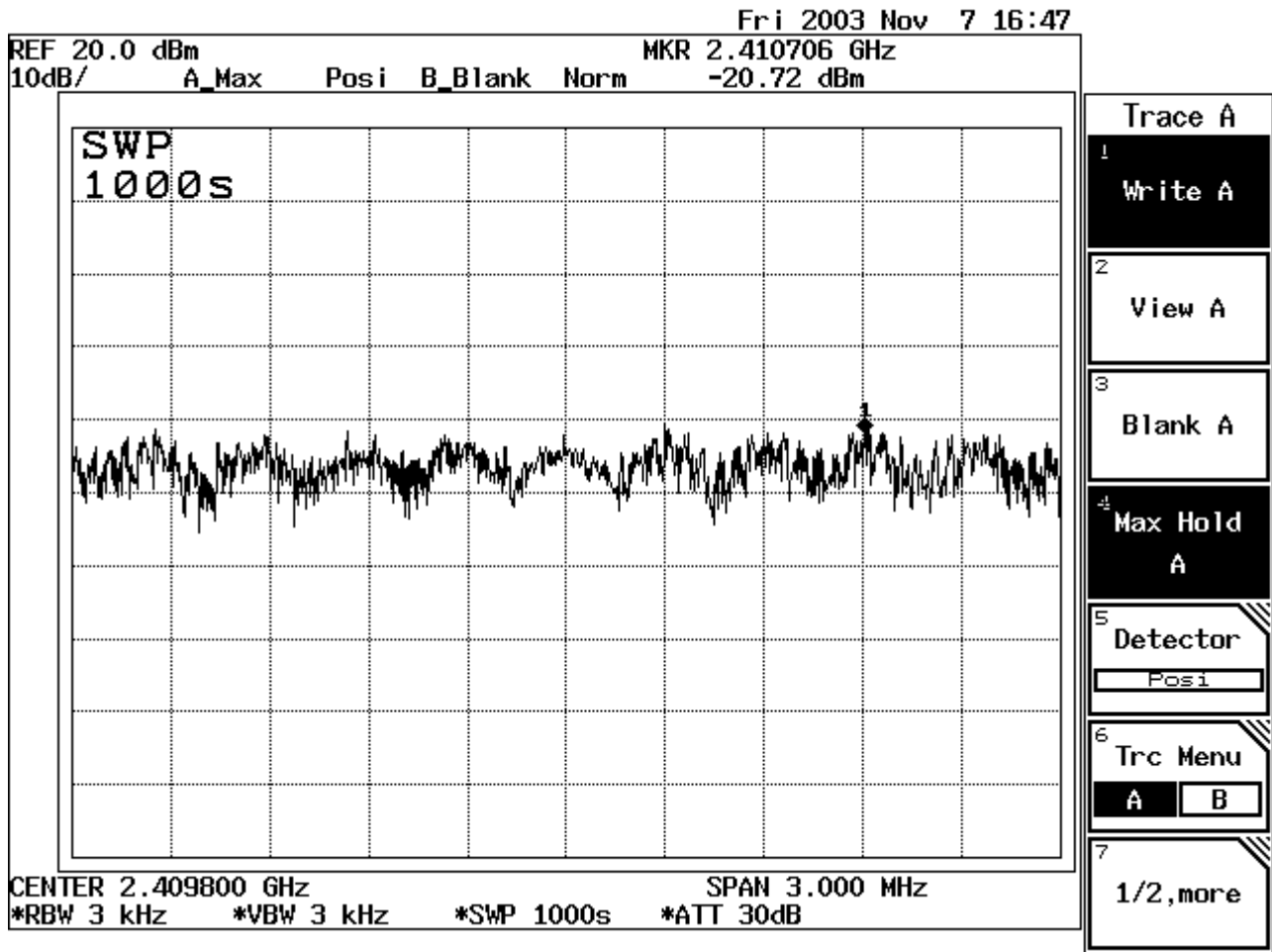


Product : Mini PCI Card
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : 54Mbps (Channel 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (54Mbps)	2410.706	-20.72	< 8dBm	Pass

Figure Channel 1:

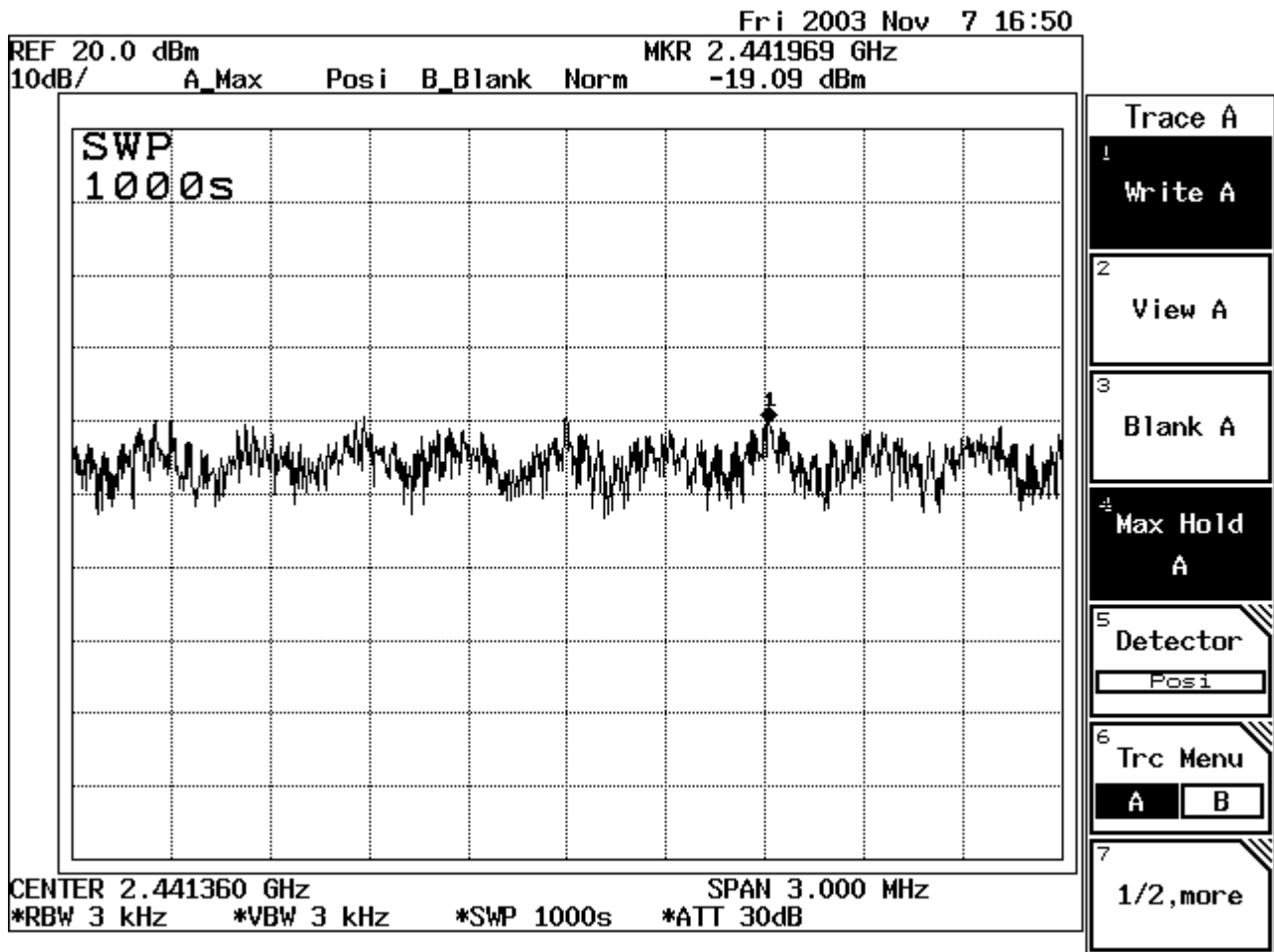
54Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (54Mbps)	2441.969	-19.09	< 8dBm	Pass

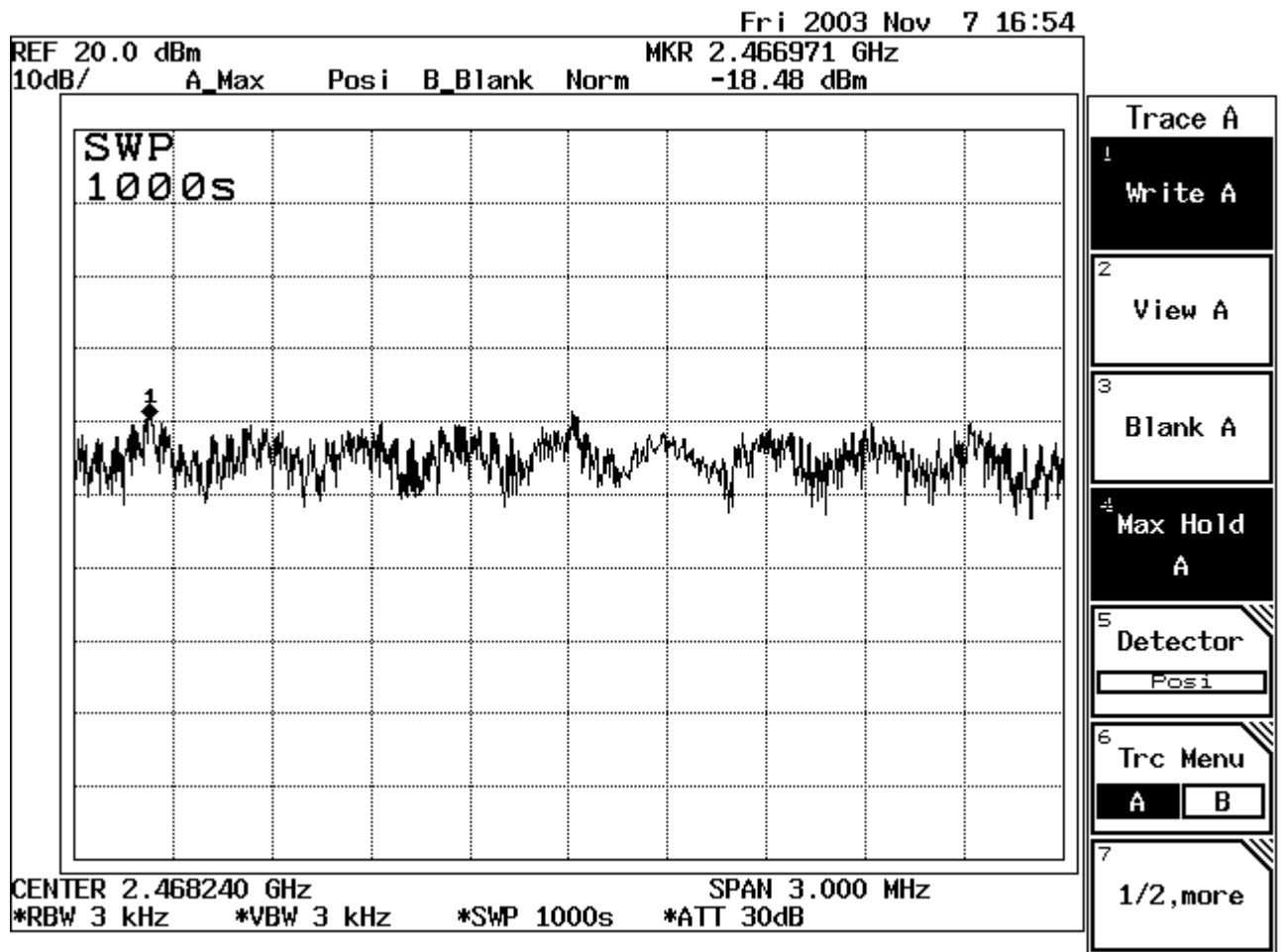
Figure Channel 6: 54Mbps



Product : Mini PCI Card
 Test Item : Density Data
 Test Site : No.3 OATS
 Test Mode : 54Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (54Mbps)	2466.971	-18.48	< 8dBm	Pass

Figure Channel 11: 54Mbps



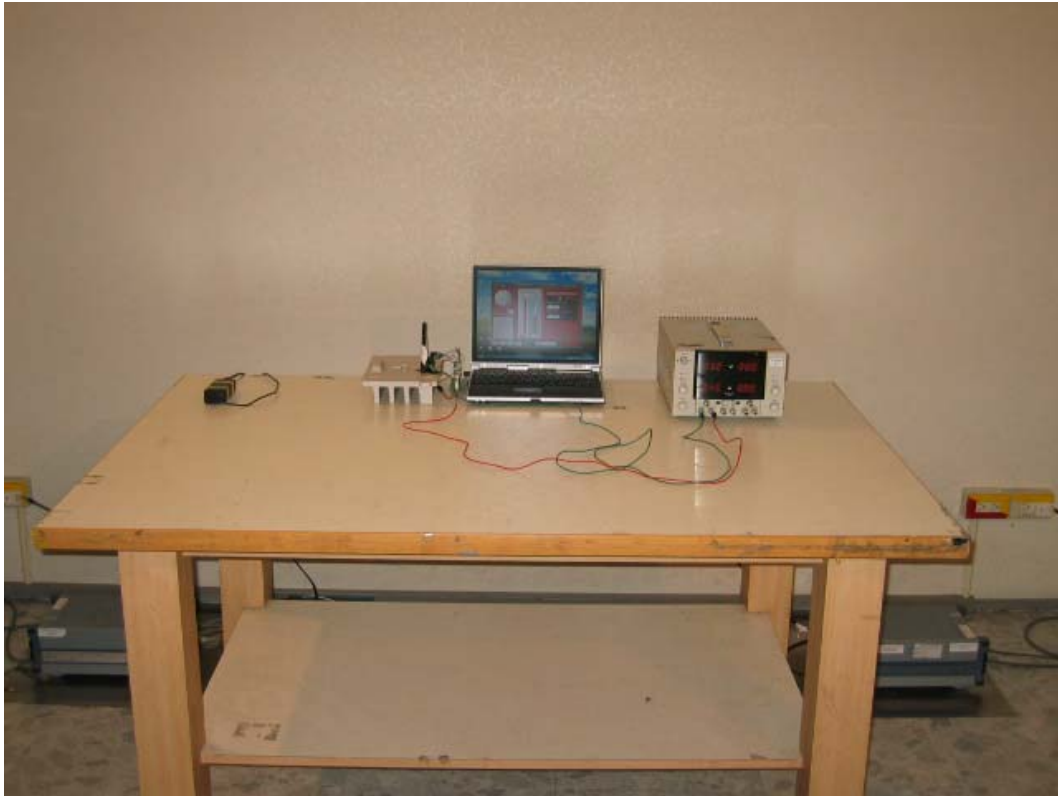
8. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 1: EUT Test Setup Photographs

Front View of Conducted Test (Green Antenna)



Back View of Conducted Test (Green Antenna)



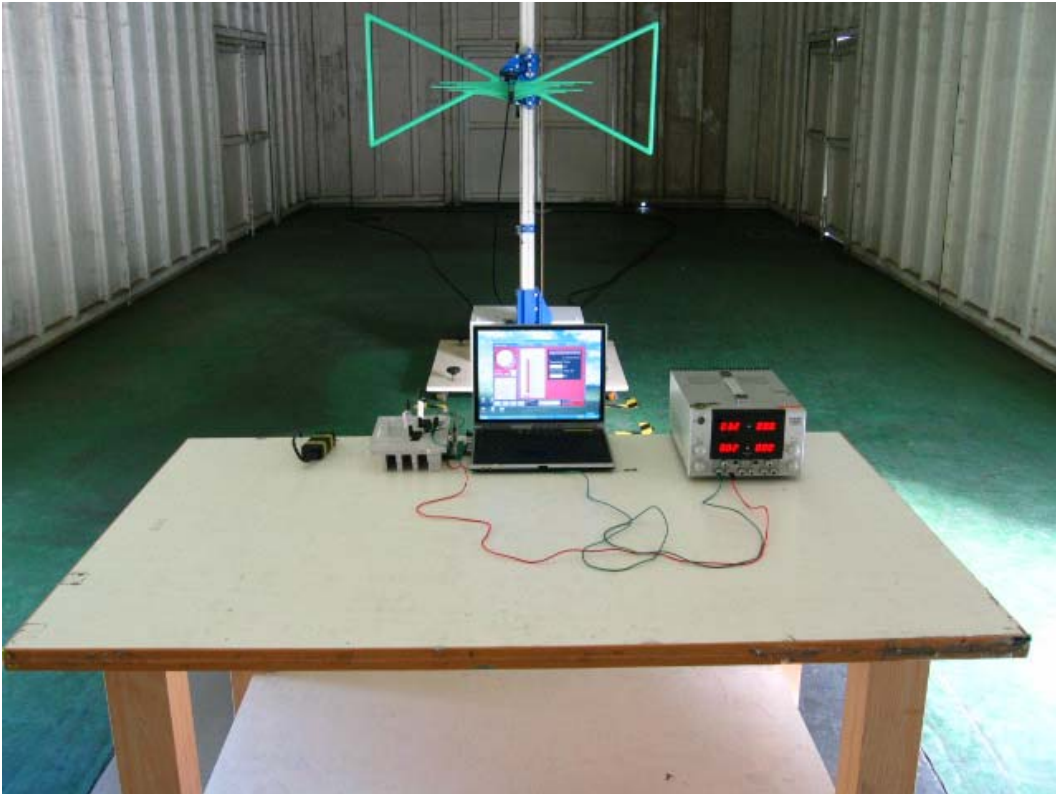
Front View of Conducted Test (White Antenna)



Back View of Conducted Test (White Antenna)



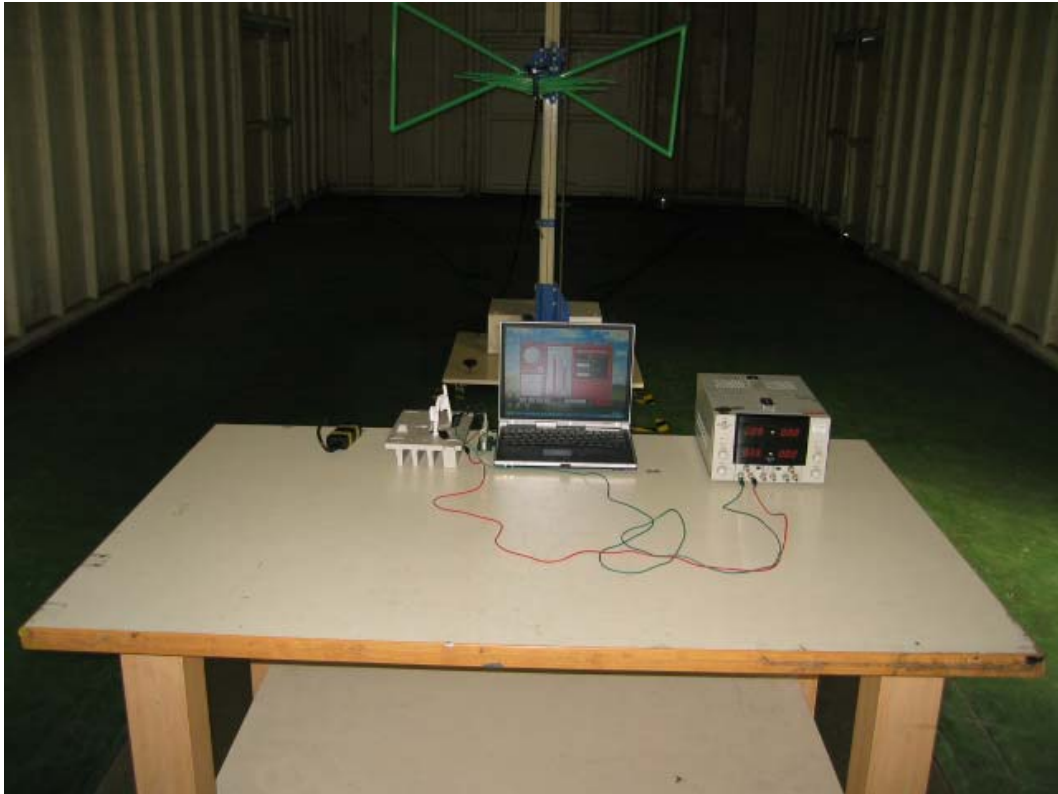
Front View of Radiated Test (Green Antenna)



Back View of Radiated Test (Green Antenna)



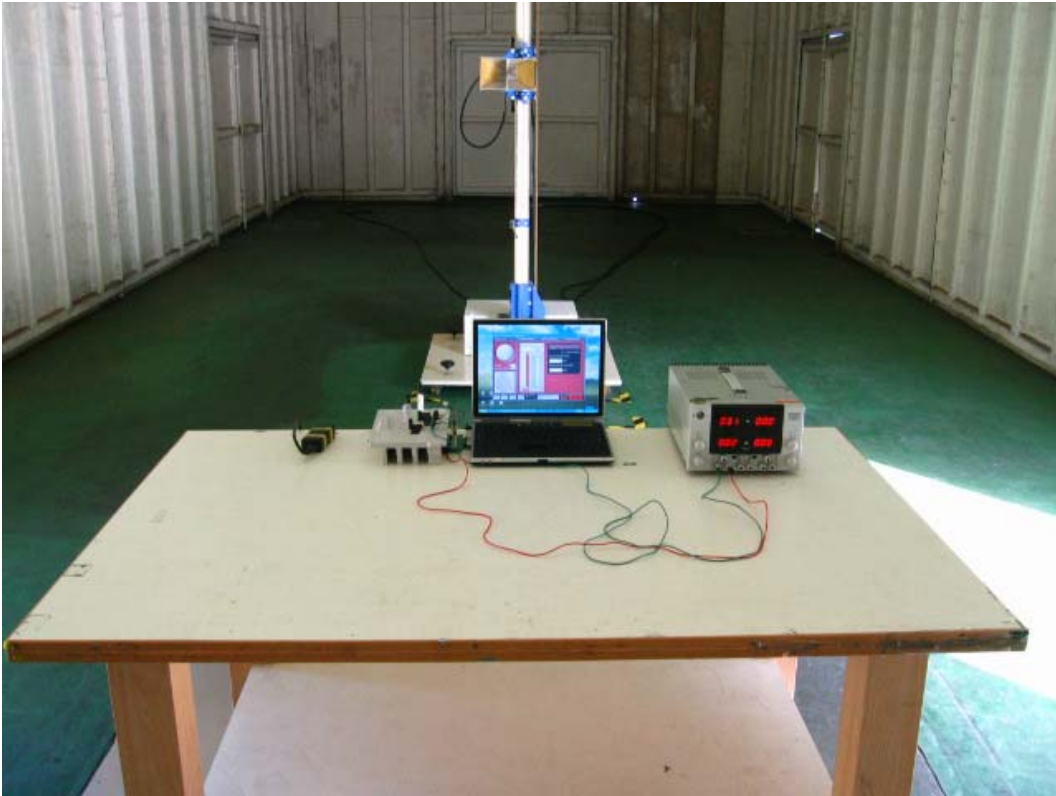
Front View of Radiated Test (White Antenna)



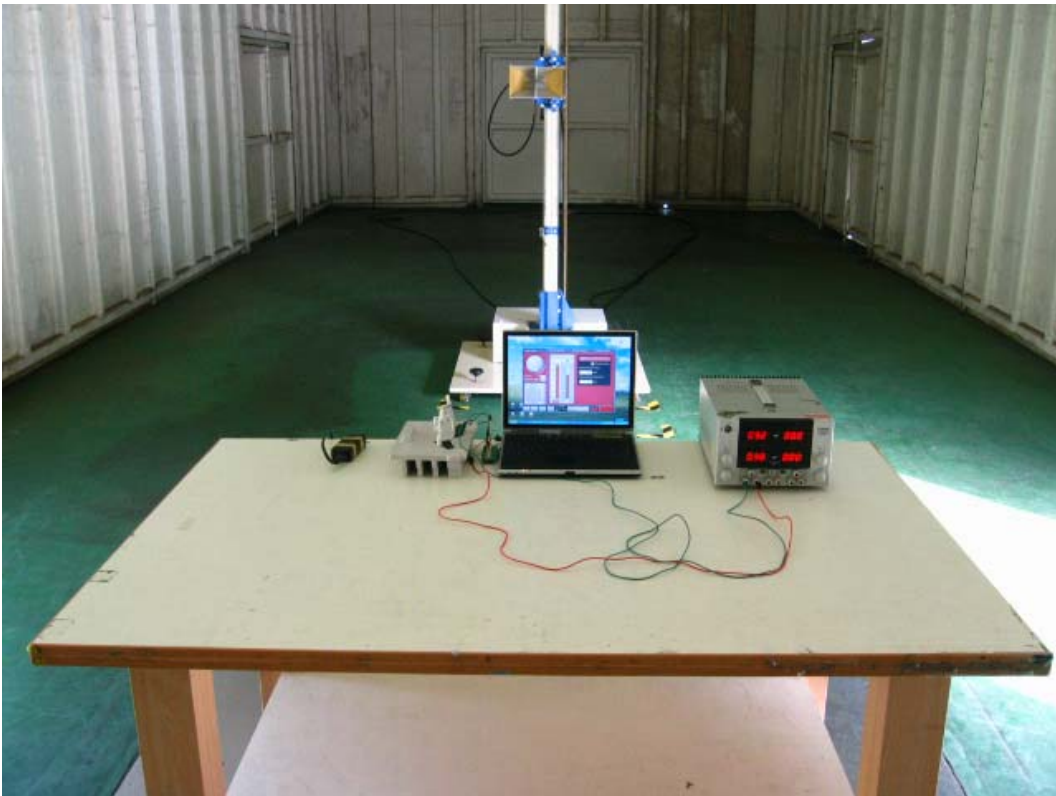
Back View of Radiated Test (White Antenna)



Front View of Radiated Test (Green Antenna) (Horn)



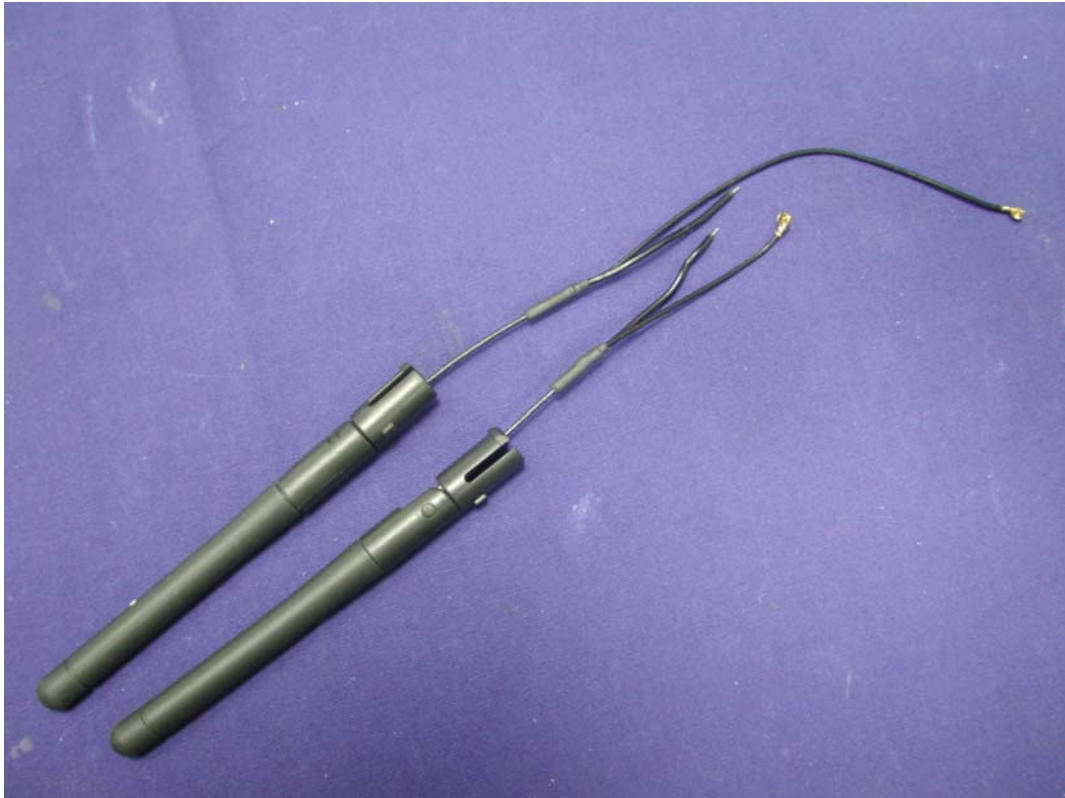
Front View of Radiated Test (White Antenna) (Horn)



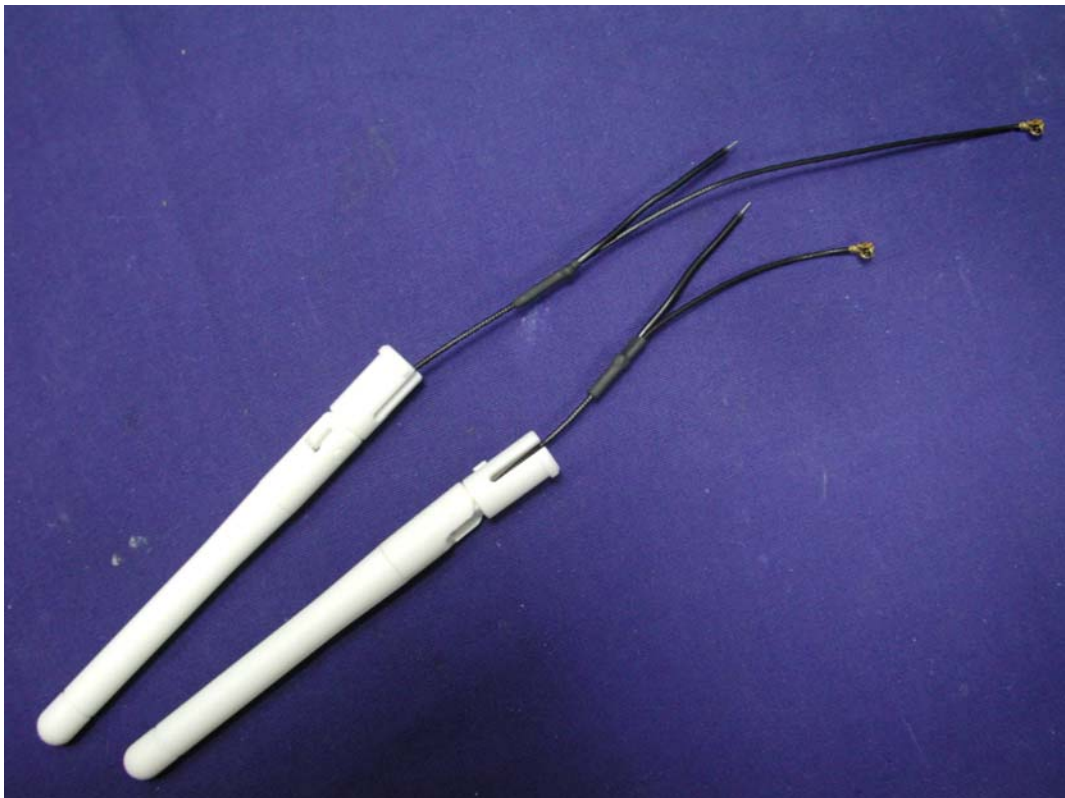
Attachment 2: EUT Detailed Photographs

Attachment 2 : EUT Detailed Photographs

(1) EUT Photo (Green Antenna)



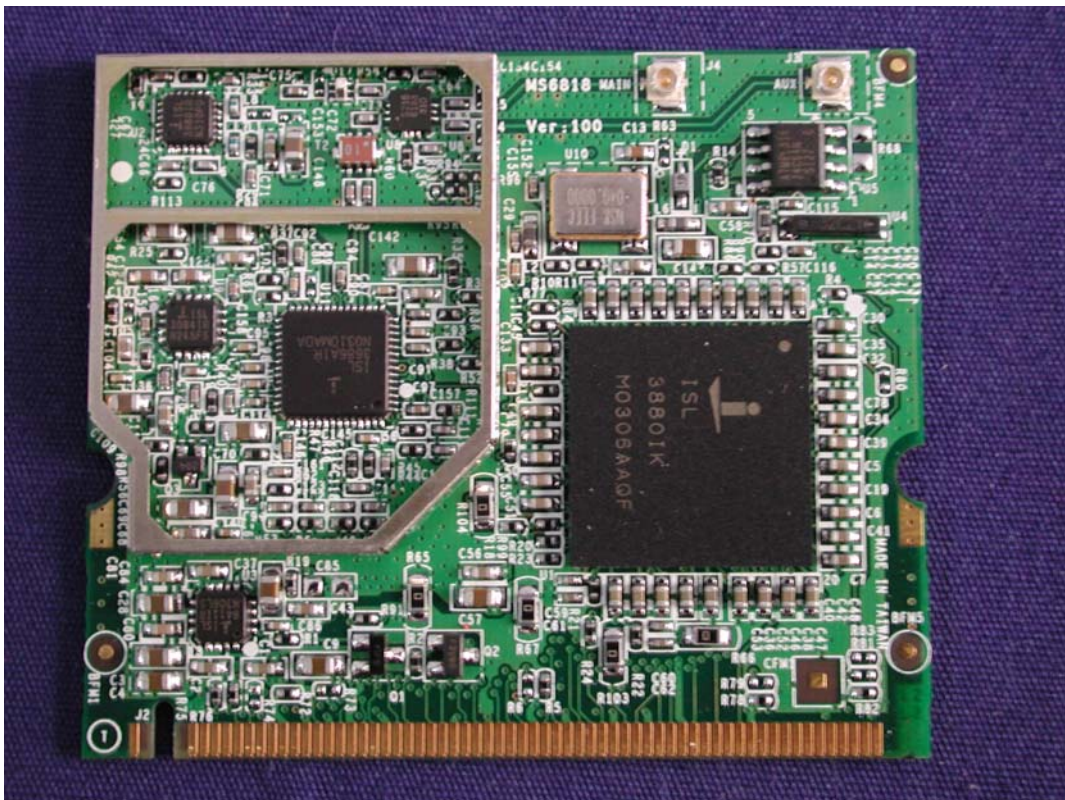
(2) EUT Photo (White Antenna)



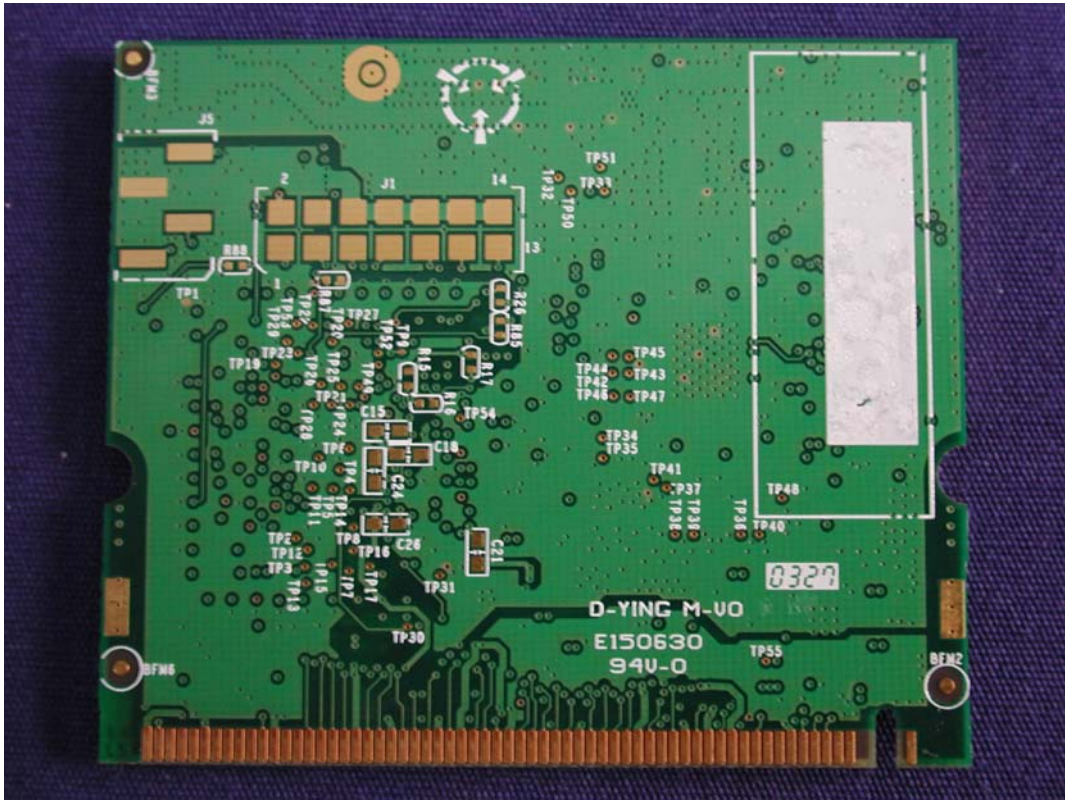
(3) EUT Photo



(4) EUT Photo



(5) EUT Photo



(6) EUT Photo

