



**Test Report  
Application for  
Certification  
On Behalf Of**

**PRIME ELECTRONICS & SATELLITICS INC.**

**EUT:**

**Wireless Lan 11g mini PCI adapter**

**Model Number:**

**WM233G**

**FCC ID:**

**PQP-WM233G**

**Prepared for:**

**PRIME ELECTRONICS & SATELLITICS INC.**

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# 1. CERTIFICATION

**Applicant : PRIME ELECTRONICS & SATELLITICS INC.**

EUT Description : Wireless Lan 11g mini PCI adapter  
 Model Number : WM233G  
 Serial Number : N/A  
 FCC ID : PQP-WM233G  
 Tested Power Supply : 120V/60Hz

**MEASUREMENT PROCEDURES USED:**

- CFR 47, Part 15** Radio Frequency Device Subpart C Paragraph 15.247 Intentional Radiators :2000
- ANSI C63.4** Methods of Measurements of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the range of 9kHz To 40GHz. 2001

THE MEASUREMENT SHOWN IN THE ATTACHMENT WAS MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE ABOVE LIMITS APPLICABLE.



Sample Received Date : **June 23, 2004**

Final Test Date : **July 13, 2004**

In order to ensure the quality and accuracy of this document, the contents have been thoroughly reviewed by the following qualified personnel from GesTek Lab.

<p><b>Documented By :</b></p> <p style="text-align: center;"><i>Rini Chen</i></p> <hr style="border: 0.5px solid blue;"/> <p>Rini Chen / adm. Dept. Supervisor</p>	<p><b>Test By :</b></p> <p style="text-align: center;"><i>Kenny Cho</i></p> <hr style="border: 0.5px solid blue;"/> <p>Kenny Cho / eng. Dept. Engineer</p>
<p><b>Technical Reviewed By :</b></p> <p style="text-align: center;"><i>Shine Chang</i></p> <hr style="border: 0.5px solid blue;"/> <p>Shine Chang / eng. Dept. Supervisor</p>	<p><b>Approved By :</b></p> <p style="text-align: center;"><i>Tonny Lin</i></p> <hr style="border: 0.5px solid blue;"/> <p>Tonny Lin / General Manager</p>

This test data shown below is traceable to National or international standard such as NIST/USA, etc. The laboratory's NVLAP accreditation in no way constitutes or implies product certification, approval, or endorsement by NVLAP or the United States government.

## 2. GENERAL INFORMATION

### 2.1 PRODUCTION DESCRIPTION

**Product Name** : Wireless Lan 11g mini PCI adapter  
**Model Number** : WM233G  
**Serial Number** : N/A  
**FCC ID** : PQP-WM233G  
**Modulation Type** : DBPSK, DQPSK, CCK/OFDM  
**Antenna Gain** : Antenna 1: 5dBi  
                   : Antenna 2: 2dBi  
**Antenna Type** : Connector(MMCX)  
**Frequencg Range** : 2412-2462MHz  
**Channel Number** : 11 Channel  
**Data Rate** : 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54Mbps  
**Channel Control** : Auto  
**Working Voltage** : DC 3.3V

#### Frequency of Each Channel:

(1) WLAN :

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

#### Note:

1. This device is 802.11g 2.4GHz mini PCI Wireless LAN Card and certification Modular Approval.
2. The test is included WLAN transmit function. Test of channel is included the lowest, middle and highest frequency in highest data rate and to perform the test, then record in 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.
4. The device is accordance with Part 15 regulations. The function receiving was under Declaration of Conformity and record of measurment in test report that the report number is 0406089 FCC DOC.

## 2.2 OPERATIONAL DESCRIPTION

The EUT is Mini PCI interface and certification **Modular Approval**. The EUT powered by notebook. This EUT has two type antenna and non-simultaneously connect in PCB. The final test is chose 5dBi antenna. The other instruction, please look at user manual.

This is a digital transmission system (DTS) and have four type of modulation DBPSK, DQPSK, CCK/OFDM. The data rate are 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54Mbps

The equipment enables high-speed access without wires to network assets. This adapter uses the IEEE 802.11g protocol to enable wireless communications between the host computer and other computers.

### 2.3 TEST MODES & EUT COMPONENTS DESCRIPTION

The EUT will certification with two antenna and two antenna's cable. The final test is chose 5dBi antenna with 100mm length cable for final test.

List below

	Manufacturer	Model Nubmer	Antenna Type	Antenna Gain
<b>ANT 1</b>	Full Rise Electronic CO., LTD	AN-G1-XDC	1/4 Dipole sleev	5dBi
<b>ANT 2</b>	Wanshih Electronic CO., LTD	WSS002	1/4 Dipole sleev	2dBi

	Manufacturer	Model Nubmer	Cable Length	Cable Loss
<b>Cable 1</b>	Shen ChyunCO., LTD	Mini coaxial cable A'ssy	151mm	0.94dBi
<b>Cable 2</b>	Wanshih Electronic CO, LTD	RG178 cable Assembly	100mm	0.55dBi

Test Mode	Mode 1	Mode 2
	802.11b: 11Mbps	802.11g: 54Mbps

## 2.4 CONFIGURATION OF THE TESTED SYSTEM

The FCC IDs/Types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:


Device	No.	Configuration
D-Sub Monitor	M01-030	Manufacturer : ADI Model Number : MICRO SCAN G1000 Serial Number : N/A BSMI ID : 3892A351 FCC ID : N/A Data Cable : Shielded, detachable, 1.5m, VGA Cable Power Cord : 3Pin, Shielded, Detachable, 1.5m
Headset & Earphone	E01-082	Manufacturer : TOKYO Model Number : SX-M1 Serial Number : N/A Data Cable : Non-Shielded, Undetachable, 1.8 m Power Cord : N/A Purchase Date : 2/22/1999
USB Mouse	M02-273	Manufacturer : Logitech Model Number : M-U48A BSMI ID : 4882A177 FCC ID : JNZ211360 Data Cable : Shielded, Undetachable, 1.5m
USB Mouse	M02-242	Manufacturer : Logitech Model Number : M-U48A BSMI ID : 4882A177 FCC ID : JNZ211360 Data Cable : Shielded, Undetachable, 1.5m
Digital Video Camera Recorder (Digital 8)	V01-003	Manufacturer : SONY CORPORATION Model Number : DCR-TRV230 Serial Number : 380331 BSMI ID : N/A AC Power Adaptor : M/N:AC-L10A, S/N:36880927 Input:AC IN:100-240V 50/60Hz 23W Output:DC 8.4V/1.5A Battery Pack(Li-ion) : M/N:NP-FM30 Input :DC 7.2V/5.0Wh
Modem	M03-023	Manufacturer : ACEEX Model Number : 1414V Serial Number : 0046177 BSMI ID : N/A FCC ID : IFAXDM1414 Data Cable : T Type:RS232, Shielded, Detachable, 1.2m Power Cord : Non-Shielded, Detachable, 1.5m Line : Type:RJ11(4P2C), Detachable, 1.8m Phone : Type:RJ11(4P2C), Detachable, 1.8m

Device	No.	Configuration
<b>Printer</b>	<b>P01-016</b>	Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40426 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable Power Cord : Non-Shielded, Detachable, 1.8m
<b>Test fixture</b>	-----	Manufacturer : Gestek
<b>NOTEBOOK</b>	<b>DELL NB 1</b>	Model Number : Latitude D600 PPO5L BSMI ID : R33002 FCC ID : E2K24CLNS Serial Number : 10826163280 C.P.U : Intel Pentium M 1.4G HZ DDR : PC2100 256MB WIRELESS LAN : Manufacturer :INTEL CARD : M/N:WM3A2100 FCC ID: E2K24CLNS F.D.D : N/A H.D.D. : Manufacturer : FUJITSU 30G M/N: MHT2030AT S/N:NN15T421E09C BSMI ID:D33073 DVD-ROM : Manufacturer :DELL M/N:5W299-A01 BATTERY : Manufacturer : DELL Li-ion MODULE : M/N:6Y270 RATING:14.8V 220mAh AC ADAPTOR : Manufacturer :DELL M/N: PA-1650-05D S/N:CN-05U092-48010-39N-227C INPUT:AC 100-240 V~1.5A 50-60HZ Shielded, Undetachable, 2.5m



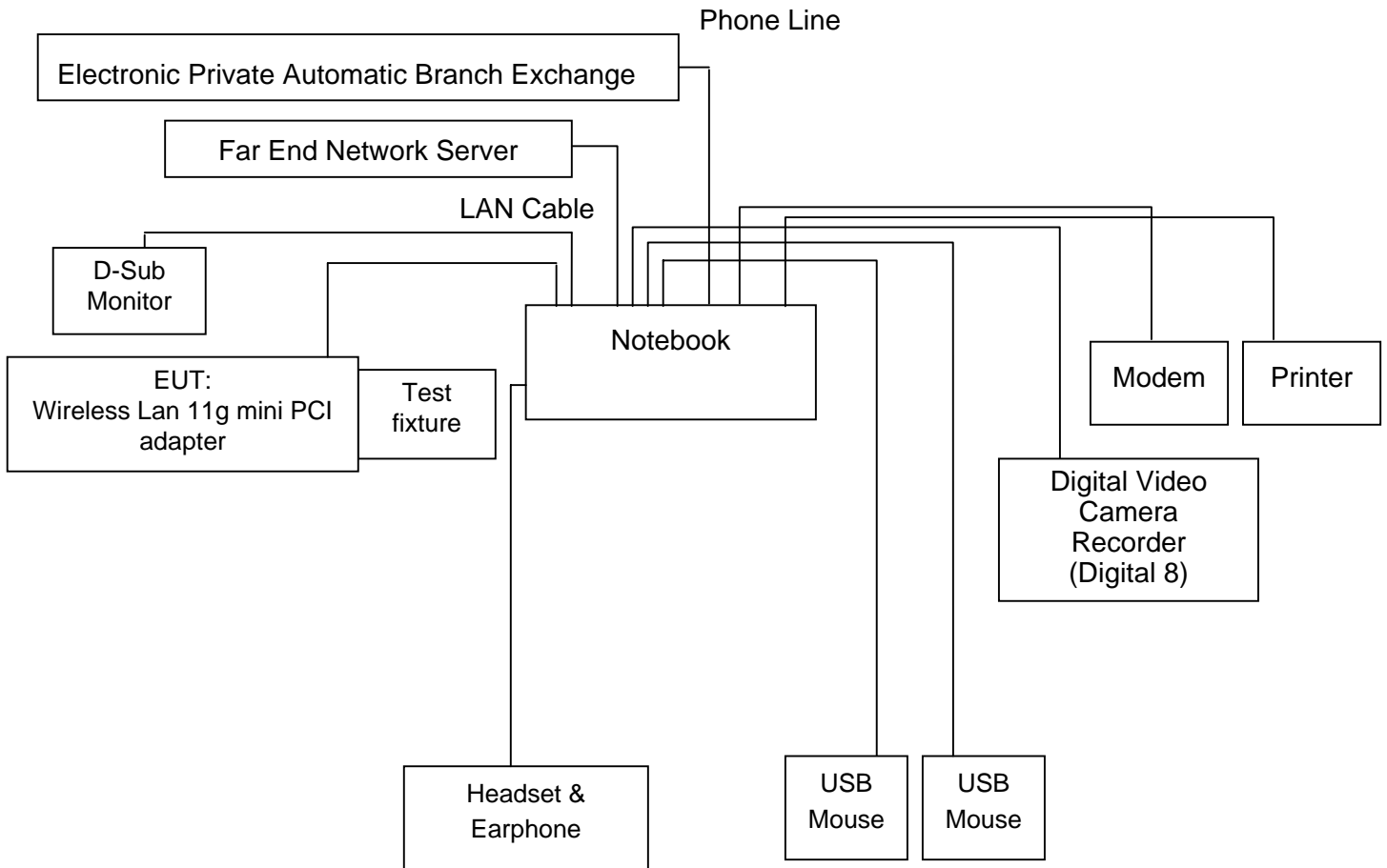
## 2.5 TEST FACILITY

Ambient conditions in the laboratory:

ITEMS	REIQIORED(IEC 68-1)	ACTUAL
TEMPERATURE (°C)	15-35	24-27
HUMIDITY (%RH)	25-75	50-65
BAROMETRIC PRESSURE (mbar)	860-1060	950-1000
FCC SITE DESCRIPTION	Aug. 10, 1995 /Aug. 25, 1998 File on FCC Engineering Laboratory Federal Communication Commission 7435 Oakland Mills Road Columbia, MD 21046 Reference 31040/SIT1300F2	
NVLAP LAB. CODE	200085-0 United States Department of commerce National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program Accreditation on NVLAP effective through Sep. 30,2004 For CISPR 22, FCC Method and AS/NZS 3548 Measurement.	
Chinese National Laboratory Accreditation Certificate R.O.C. 	Recognized by the Council of Chinese National Laboratory Accreditation and confirmed to meet the requirements of ISO/IEC 17025 also has been registered for fifteen items, and meet the requirements of the Article 4 of Measures Governing the Recognition both Approval of Designated Laboratory for Commodities Inspection and has been registered for four items within the field of Electrical Testing. Registration No.: 1082 Registration on CNLA effective through April 30, 2006.	

## 2.6 TEST SETUP

### 2.6.1 BLOCK DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS



## 2.7 EUT OPERATING CONDITIONS

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

1. Setup the EUT and simulators as shown on 2.6.
2. Turn on the power of all equipments.
3. The EUT ping with the wireless LAN card.
4. Repeat the above steps.

### 3. CONDUCTION EMISSION DATA

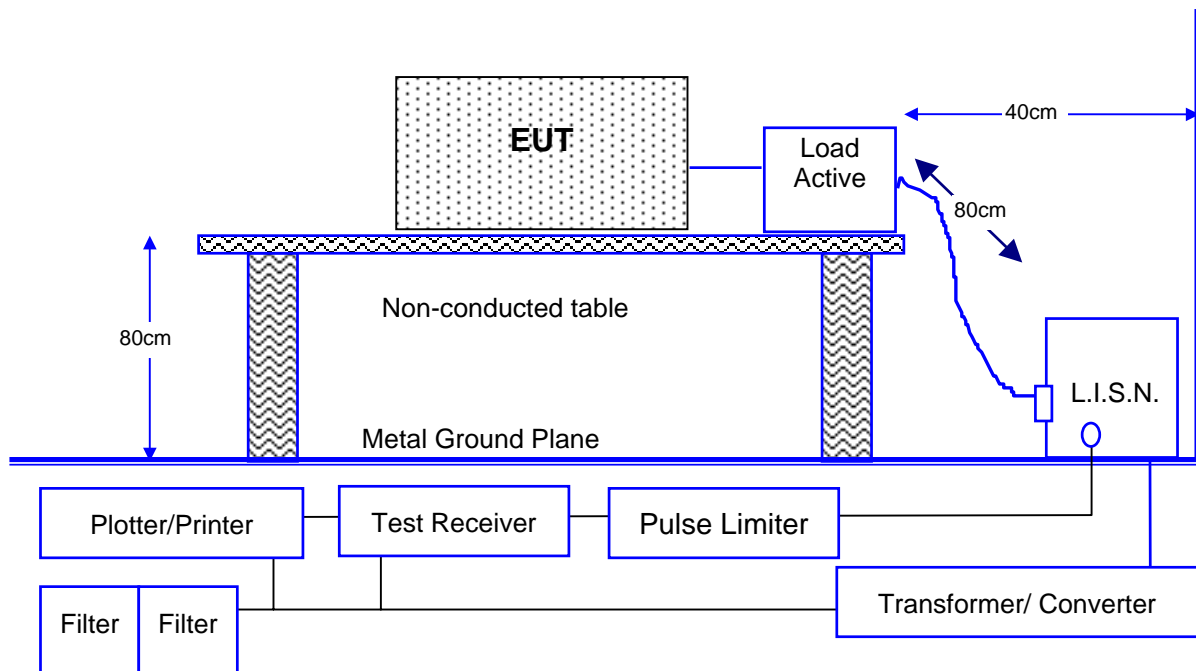
#### 3.1 TEST EQUIPMENTS

The following test equipment are used during the conducted power line tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	Rohde & Schwarz	ESCS30	825022/003	06/26/04
2	L.I.S.N.	KYORISTU	KNW-407	8-1345-10	11/20/03
3	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	357.8810.52	08/07/03
4	RF CABLE	GesTek	N/A	GTK-E-A154-01	12/03/03
5	50 Ohm Terminator	GesTek	N/A	GTK-E-A130-01	10/11/03
6	Shielded Room	GesTek	N/A	B5	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

#### 3.2 BLOCK DIAGRAM OF TEST SETUP



Note: This is a representative setup diagram for Table-top EUT.  
For Floor-standing EUT, the table will be removed with all other setup conditions remain the same.

### 3.3 CONDUCTED EMISSION LIMIT

FCC Limit (15.207)

Frequency MHz	Conducted Limits dB( $\mu$ V)	
	QUASI-PEAK	AVERAGE
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50

Remarks : In the Above Table, the tighter limit applies at the band edges.

### 3.4 OPERATING CONDITION OF EUT

Same as section 2.8.

### 3.5 EUT CONFIGURATION ON MEASUREMENT

The equipment, which is listed 3.1, is installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 3.2, was placed on a non-conductive table whose total height equal to 80cm. Powered from one L.I.S.N. which signal output to receiver, and the other peripherals was powered from another L.I.S.N. which signal output was terminated by 50 $\Omega$ .

### 3.6 CONDUCTED EMISSION DATA

The measurement range of conducted emission from [0.15 MHz to 30 MHz](#) was investigated. All readings are quasi-peak and average values with a resolution Bandwidth of 9 KHz. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

### 3.7 CONDUCTED EMISSIONS MEASUREMENT RESULTS

Date of Test	June 29, 2004	Temperature	24
EUT	Wireless Lan 11g mini PCI adapter	Humidity	57 %
Test Mode	Tx Mode	Display Pattern	H Pattern

**Line**

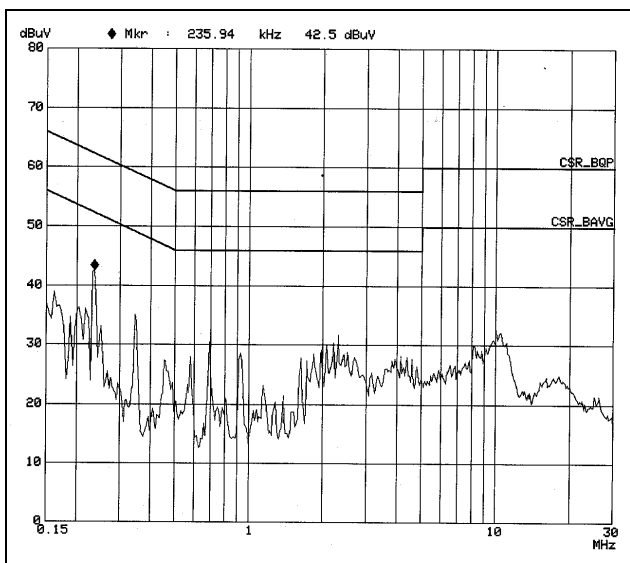
No.	FREQUENCY	READING LEVEL dB $\mu$ V		LIMIT	
	MHz	LINE1 Q.P.	LINE1 AV.	Q.P.	AV.
1	0.158	41.48	29.68	65.57	55.57
2	0.240	41.31	32.41	62.10	52.10
3	0.345	35.43	33.03	59.08	49.08
4	0.693	30.02	28.82	56.00	46.00
5	2.306	29.01	23.71	56.00	46.00
6	10.404	30.67	25.27	60.00	50.00

No.	FREQUENCY	READING LEVEL dB $\mu$ V		LIMIT	
	MHz	LINE2 Q.P.	LINE2 AV.	Q.P.	AV.
1	0.240	40.21	31.61	62.10	52.10
2	0.345	34.53	32.53	59.08	49.08
3	0.693	30.32	27.92	56.00	46.00
4	0.926	27.40	23.30	56.00	46.00
5	1.978	26.88	20.78	56.00	46.00
6	10.330	28.57	23.17	60.00	50.00

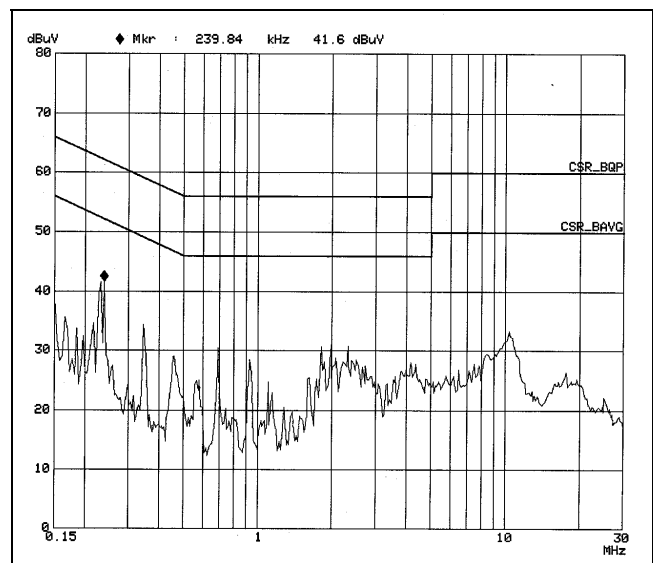
**Remarks :**

- 1 All readings are Quasi-peak and Average..
- 2 " " means that this data is the worse case emission level.
- 3 Final measurement = (Receiver reading) + (Correction factor if available).

**Line 1**



**Line 2**



## 4. RADIATION EMISSION DATA

### 4.1 TEST EQUIPMENT

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

Radiated test was performed on:  Site #1  Site #2  Site #3  Site #4

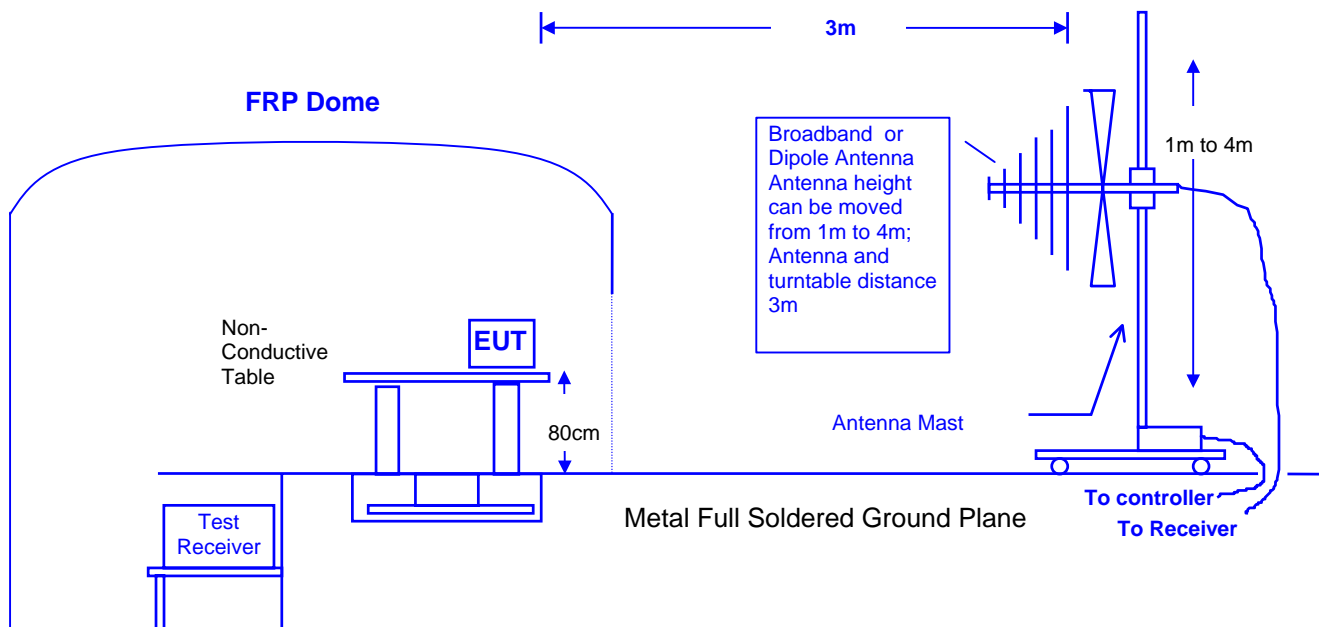
Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	Rohde & Schwarz	ESVS30	829007/014	12/13/03
2	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	03/16/04
3	Spectrum Analyzer	HP	E4407B	39240339	08/16/03
4	Power Meter	Rohde & Schwarz	NRVS	100666	04/29/04
5	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	8360191058	04/29/04
6	Pre-Amplifier	HP	8449B	3008A01263	03/10/04
7	BILOG ANTENNA	SCHAFFNER	CBL6112B	2620	12/01/03
8	Horn Antenna	Electro-Metrics	EM-6961	103318	05/30/03
9	Horn Antenna	Schwarzbeck	BBHA 9120	D243	12/18/03
10	RF Cable	GesTek	N/A	GTK-E-A151-01	02/09/04
11	Open Site	GesTek	N/A	B1	11/25/03
12	Test Program Software	GesTek	N/A	GTK-E-S001-01	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

### 4.2 OPEN TEST SITE SETUP DIAGRAM

Note: This is a comprehensive setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.



### 4.3 RADIATED EMISSION LIMIT

#### ☒ FCC Class C Limit at 3m

Frequency	Distance	Field Strength	
		$\mu\text{V}/\text{M}$	$\text{dB}\mu\text{V}/\text{M}$
MHz	Meter		
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0

Note : The frequencies above 1000MHz, as measured using instrumentation with a peak detector function was corresponding to 20dB above the maximum permitted average limit.

### 4.4 EUT CONFIGURATION

The equipment, which is listed on 4.1 was, installed on radiated emission test to meet the commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 4.2, was placed on a non-conductive table whose total height equaled 80 cm. This table can be rotated 360 degree. The measurement antenna was mounted to a non-conductive mast capable of moving the antenna vertically. Antenna height was varied from 1 meter to 4 meters and the system under test was rotated from 0 degree through 360 degrees relative to the antenna position and polarization (Horizontal and Vertical). Also the I/O cable position was investigated to find the maximum emission condition.

### 4.5 OPERATING CONDITION OF EUT

Same as section 2.8.

### 4.6 RADIATED EMISSION DATA

The measurement range of radiated emissions from **30 MHz to 10 Harminics** was investigated. All readings below 1GHz are quasi-peak values with a resolution bandwidth of 120 KHz. Above 1GHz are peak and avg. values with a resolution bandwidth of 1MHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scans of the measurement range for all the test modes and then use test receiver for final measurement. Then the worst modes were reported the following data pages..

### 4.7 RADIATED EMISSIONS MEASUREMENT RESULTS

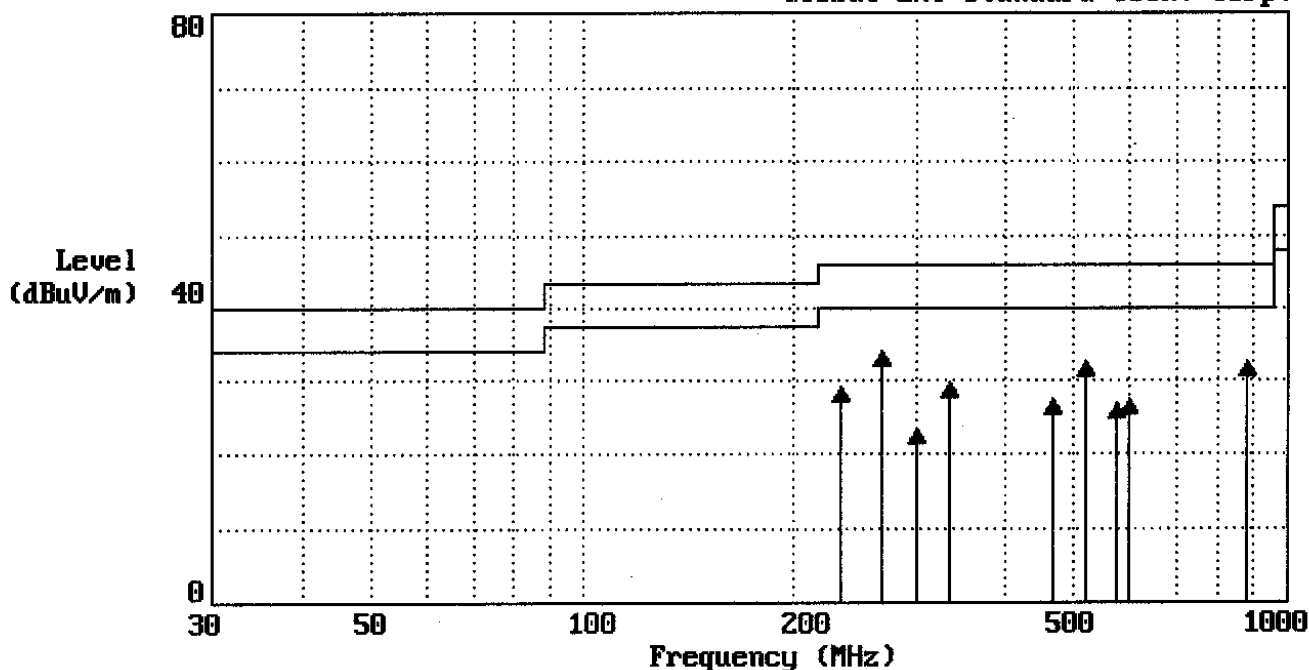
Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 1 (Channel 1)	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	233.055	2.92	11.92	14.52	29.36	0.00	46.00	-16.64
2	266.500	3.25	13.13	17.61	33.99	0.00	46.00	-12.01
3	299.816	3.65	14.10	5.77	23.52	0.00	46.00	-22.48
4	333.150	3.92	14.89	11.05	29.86	0.00	46.00	-16.14
5	466.039	4.82	17.36	5.36	27.54	0.00	46.00	-18.46
6	521.122	5.15	18.04	9.41	32.60	0.00	46.00	-13.40
7	575.939	5.48	18.70	2.86	27.04	0.00	46.00	-18.96
8	599.984	5.68	18.99	2.94	27.61	0.00	46.00	-18.39
9	878.550	7.17	21.08	4.26	32.51	0.00	46.00	-13.49

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.

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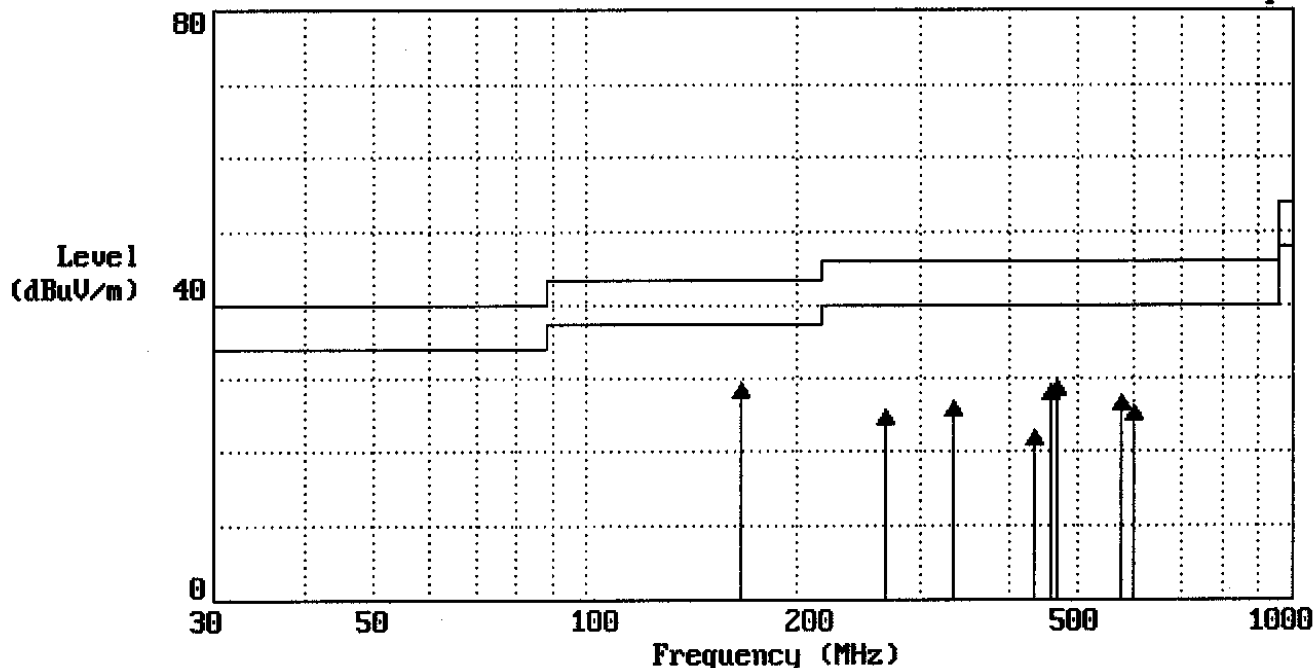
Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 1 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	166.650	2.35	10.78	16.34	29.47	0.00	43.50	-14.03
2	266.399	3.25	13.13	9.36	25.74	0.00	46.00	-20.26
3	332.977	3.92	14.89	8.05	26.86	0.00	46.00	-19.14
4	432.806	4.68	16.93	1.43	23.04	0.00	46.00	-22.96
5	457.171	4.82	17.24	7.19	29.25	0.00	46.00	-16.75
6	465.520	4.82	17.34	7.73	29.89	0.00	46.00	-16.11
7	575.931	5.48	18.70	3.51	27.69	0.00	46.00	-18.31
8	599.391	5.68	18.99	1.74	26.41	0.00	46.00	-19.59

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.

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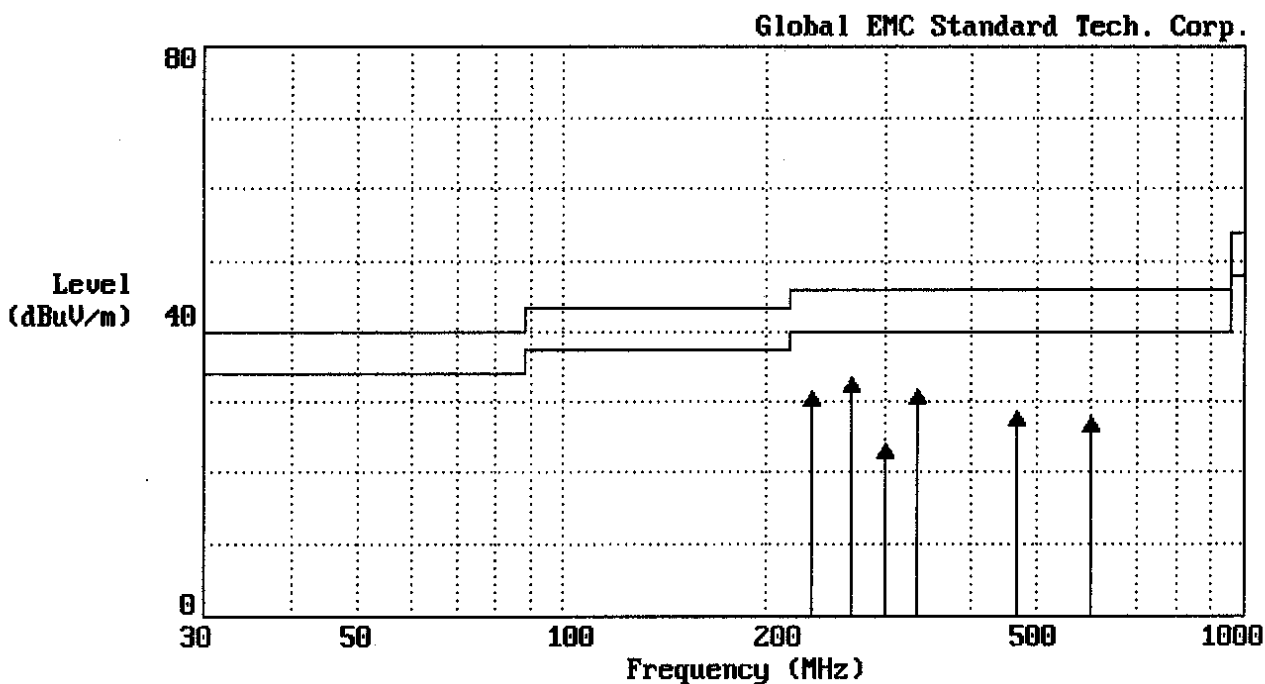


Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 1 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	232.960	2.92	11.92	16.52	31.36	0.00	46.00	-14.64
2	266.180	3.25	13.13	17.22	33.60	0.00	46.00	-12.40
3	298.960	3.60	14.06	6.32	23.98	0.00	46.00	-22.02
4	333.295	3.92	14.89	12.85	31.66	0.00	46.00	-14.34
5	466.036	4.82	17.36	6.54	28.72	0.00	46.00	-17.28
6	599.780	5.68	18.99	3.19	27.86	0.00	46.00	-18.14

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.

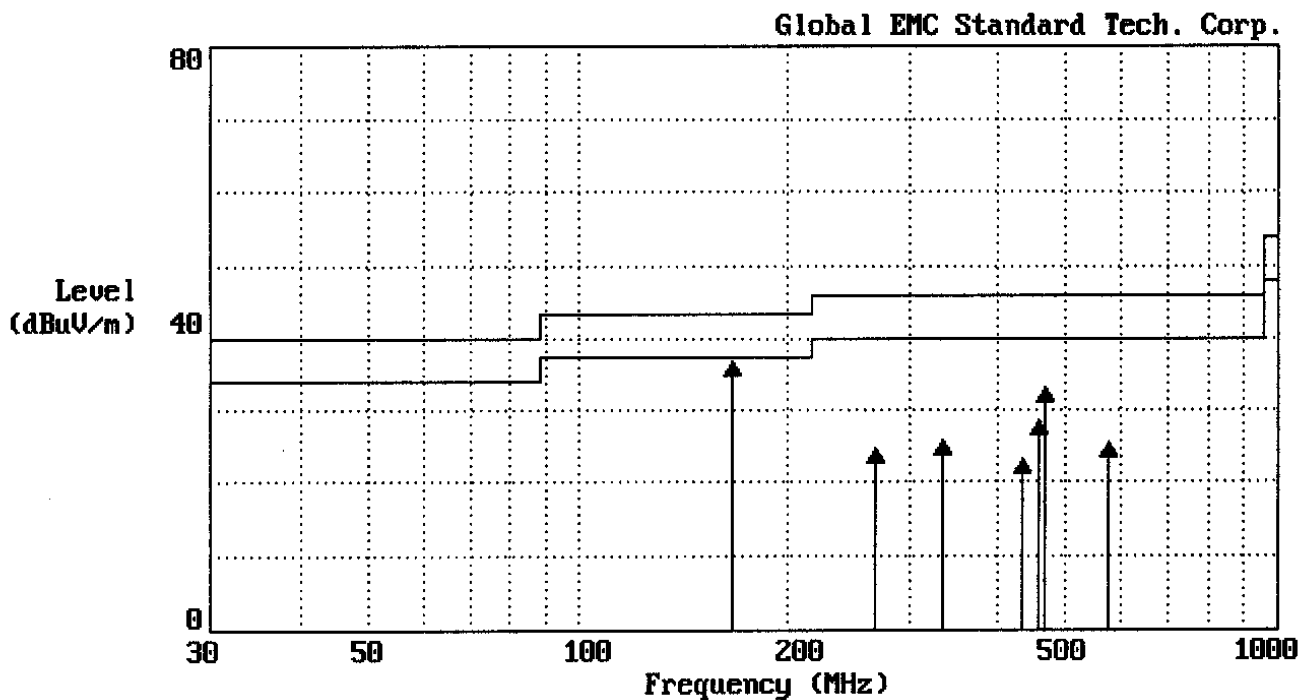


Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 1 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	166.674	2.35	10.78	23.80	36.93	0.00	43.50	-6.57
2	266.335	3.25	13.13	8.27	24.65	0.00	46.00	-21.35
3	332.960	3.92	14.89	6.99	25.80	0.00	46.00	-20.20
4	432.887	4.68	16.93	1.59	23.20	0.00	46.00	-22.80
5	457.159	4.82	17.24	6.56	28.62	0.00	46.00	-17.38
6	465.565	4.82	17.36	10.93	33.11	0.00	46.00	-12.89
7	575.948	5.48	18.70	1.48	25.66	0.00	46.00	-20.34

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.



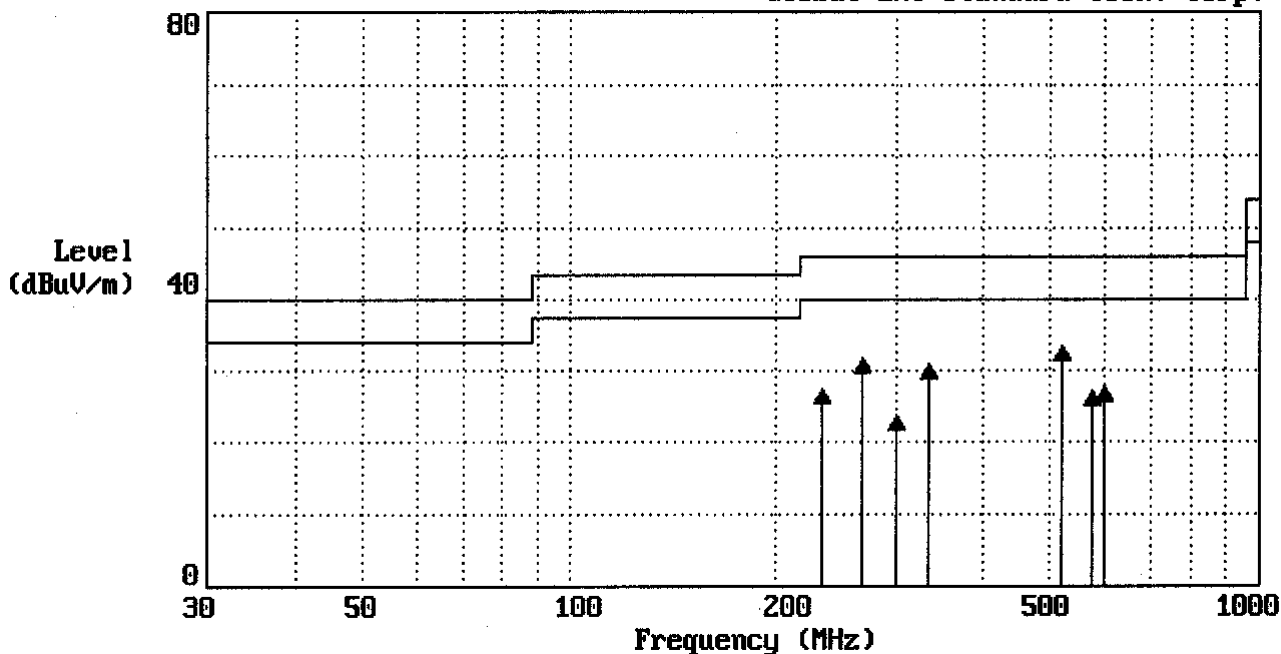
Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 1 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	233.042	2.92	11.92	12.70	27.54	0.00	46.00	-18.46
2	266.170	3.25	13.13	15.26	31.64	0.00	46.00	-14.36
3	299.945	3.65	14.10	6.15	23.90	0.00	46.00	-22.10
4	332.950	3.92	14.89	12.21	31.02	0.00	46.00	-14.98
5	520.936	5.15	18.04	10.21	33.41	0.00	46.00	-12.59
6	575.560	5.48	18.70	3.15	27.33	0.00	46.00	-18.67
7	599.450	5.68	18.99	3.15	27.82	0.00	46.00	-18.18

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.

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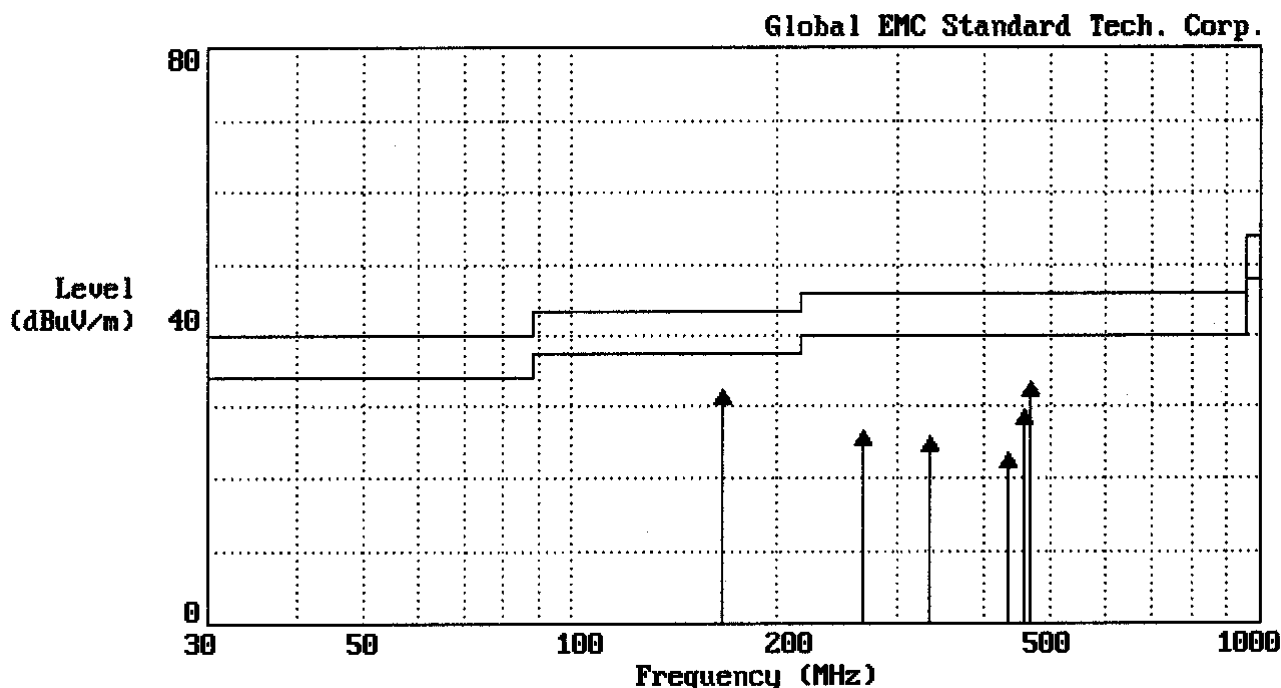


Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 1 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	166.662	2.35	10.78	19.22	32.35	0.00	43.50	-11.15
2	266.325	3.25	13.13	10.20	26.58	0.00	46.00	-19.72
3	332.951	3.92	14.89	7.10	25.91	0.00	46.00	-20.09
4	432.796	4.68	16.93	1.93	23.54	0.00	46.00	-22.46
5	457.174	4.82	17.24	7.30	29.36	0.00	46.00	-16.64
6	465.241	4.82	17.34	11.30	33.46	0.00	46.00	-12.54

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.

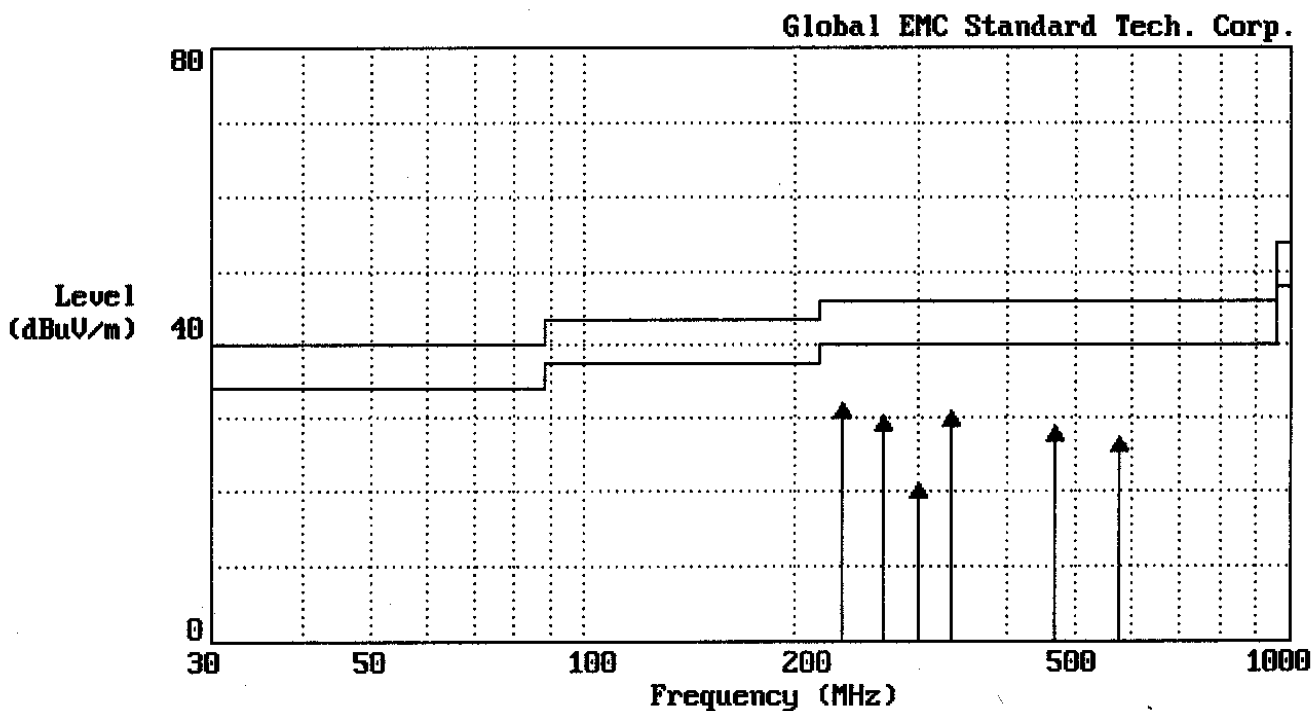


Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 2 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	233.069	2.92	11.92	17.26	32.10	0.00	46.00	-13.90
2	266.140	3.25	13.13	14.11	30.49	0.00	46.00	-15.51
3	299.158	3.60	14.06	3.65	21.31	0.00	46.00	-24.69
4	333.569	3.92	14.89	12.05	30.86	0.00	46.00	-15.14
5	466.047	4.82	17.36	6.89	29.07	0.00	46.00	-16.93
6	575.123	5.45	18.68	3.26	27.39	0.00	46.00	-18.61

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.

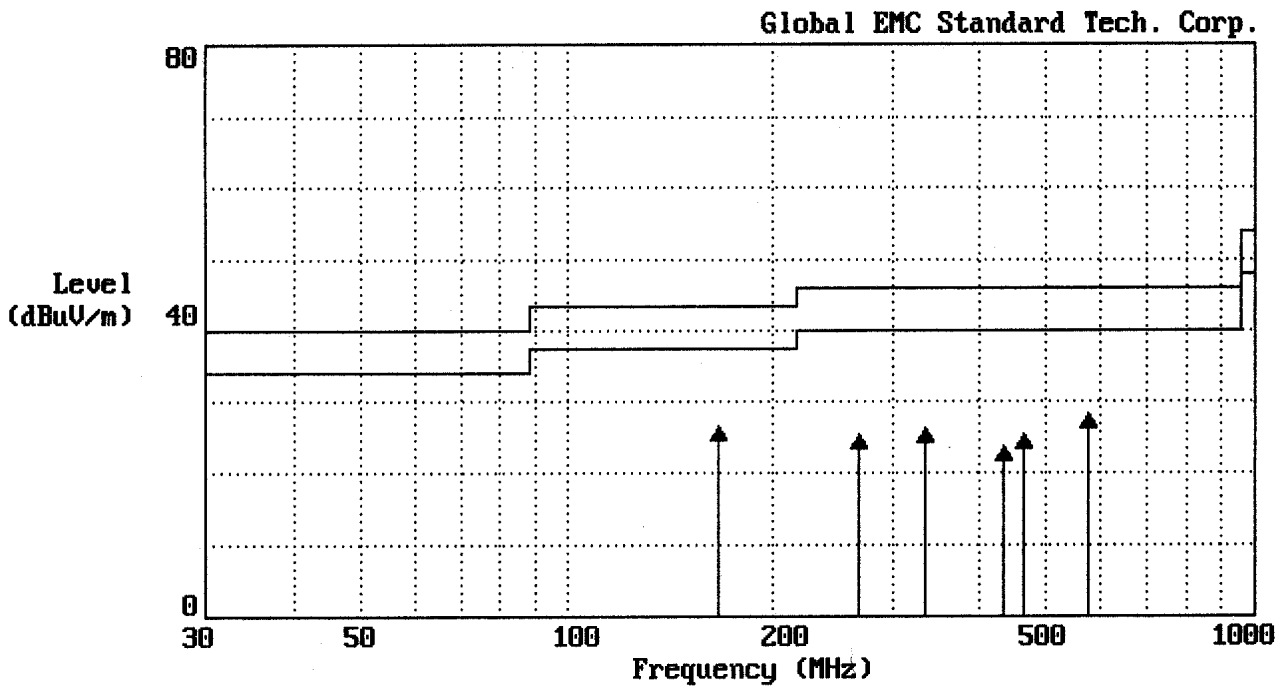


Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 2 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	166.120	2.35	10.78	13.56	26.69	0.00	43.50	-16.81
2	266.299	3.25	13.13	9.12	25.50	0.00	46.00	-20.50
3	332.915	3.92	14.89	7.56	26.37	0.00	46.00	-19.63
4	432.154	4.61	16.92	2.23	23.76	0.00	46.00	-22.24
5	465.147	4.82	17.34	3.23	25.39	0.00	46.00	-20.61
6	575.170	5.48	18.70	4.26	28.44	0.00	46.00	-17.56

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.

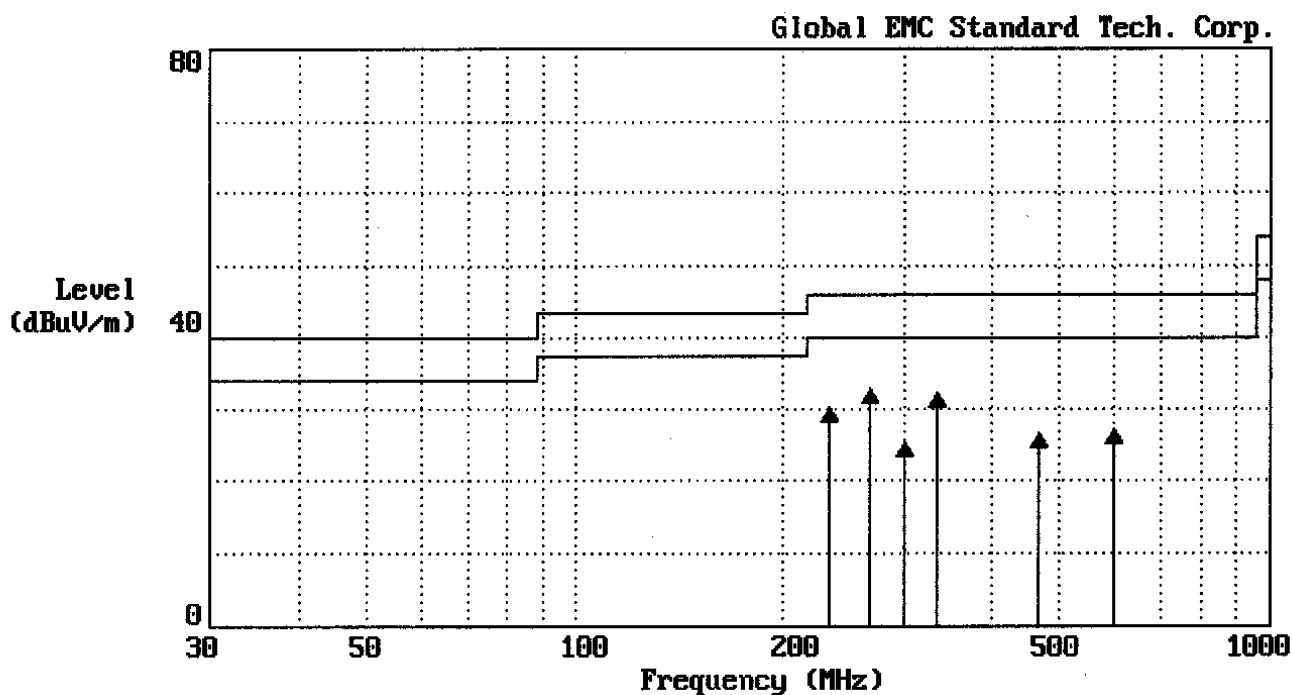


Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 2 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	233.165	2.92	11.92	15.44	30.28	0.00	46.00	-15.72
2	266.740	3.25	13.16	16.44	32.85	0.00	46.00	-13.15
3	298.146	3.60	14.03	7.89	25.52	0.00	46.00	-20.48
4	333.194	3.92	14.89	13.54	32.35	0.00	46.00	-13.65
5	466.039	4.82	17.36	4.36	26.54	0.00	46.00	-19.46
6	599.743	5.68	18.99	2.49	27.16	0.00	46.00	-18.84

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.



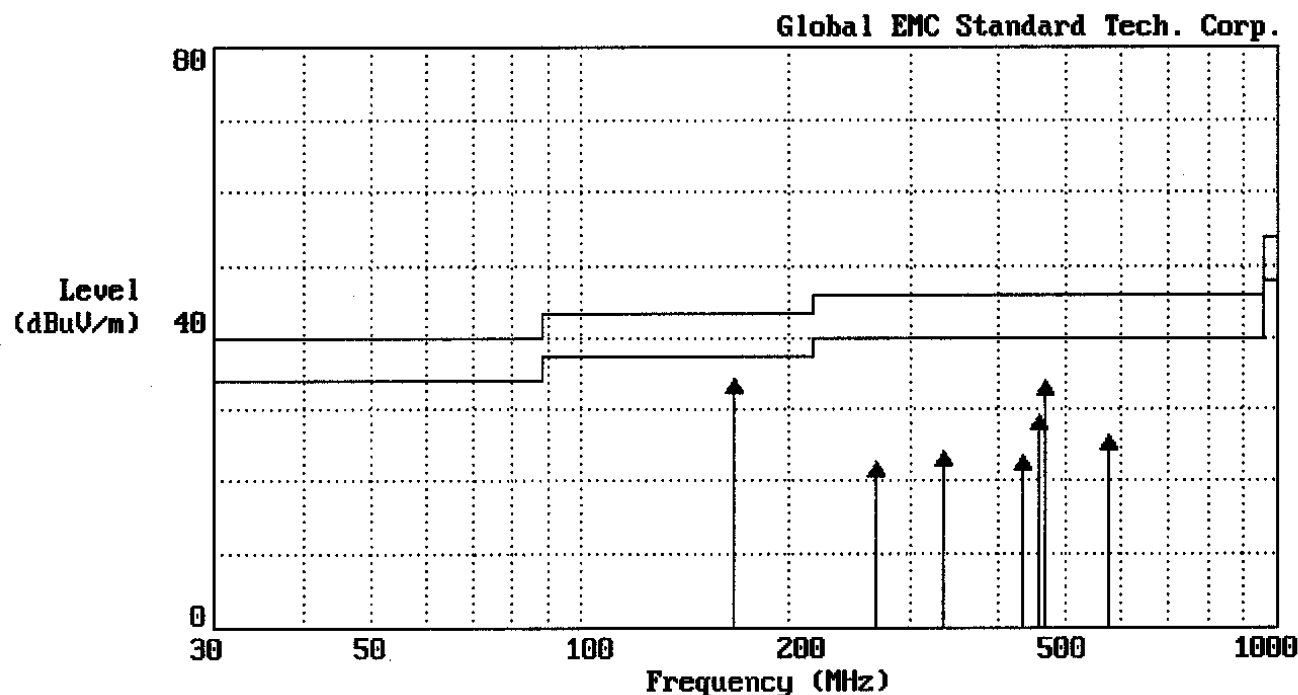


Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 2 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	166.419	2.35	10.78	21.26	34.39	0.00	43.50	-9.11
2	266.129	3.25	13.13	6.45	22.83	0.00	46.00	-23.17
3	333.910	3.92	14.91	5.14	23.97	0.00	46.00	-22.03
4	432.180	4.61	16.92	2.15	23.68	0.00	46.00	-22.32
5	457.190	4.82	17.24	7.15	29.21	0.00	46.00	-16.79
6	465.410	4.82	17.34	11.91	34.07	0.00	46.00	-11.93
7	575.156	5.48	18.70	2.34	26.52	0.00	46.00	-19.48

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.



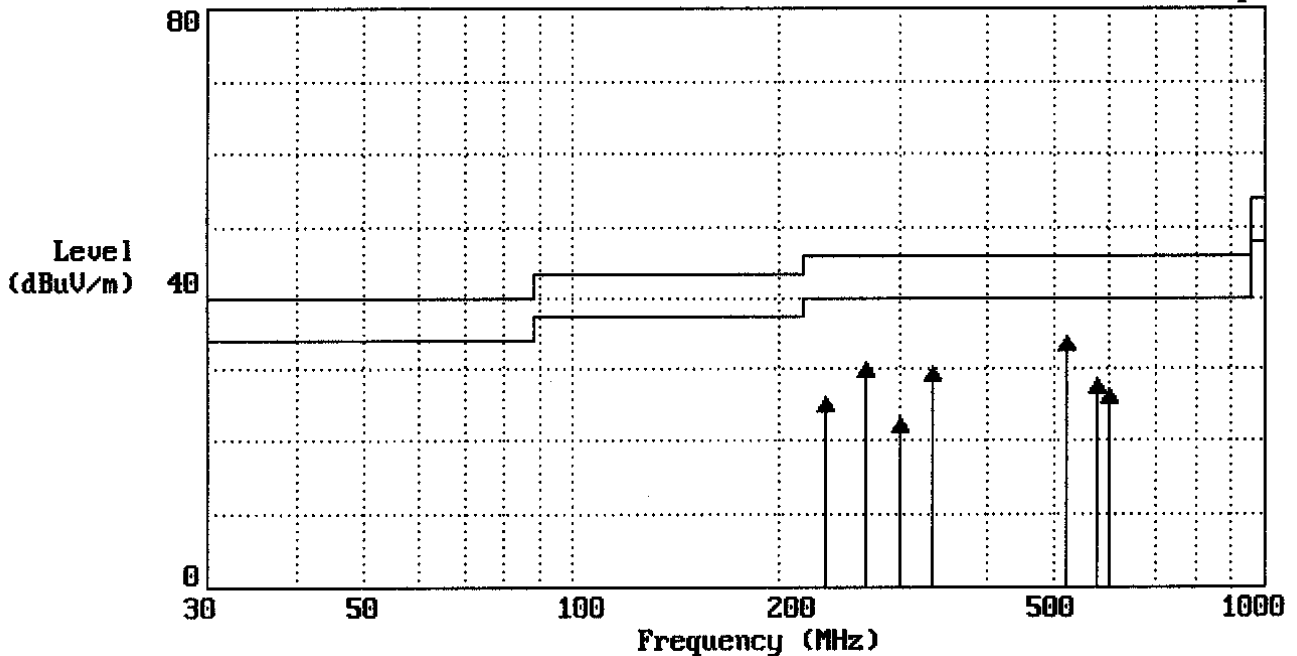
Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 2 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	233.125	2.92	11.92	11.26	26.10	0.00	46.00	-19.90
2	266.183	3.25	13.13	14.59	30.97	0.00	46.00	-15.03
3	299.780	3.65	14.10	5.48	23.23	0.00	46.00	-22.77
4	333.187	3.92	14.89	11.45	30.26	0.00	46.00	-15.74
5	521.326	5.15	18.04	11.29	34.48	0.00	46.00	-11.52
6	575.174	5.48	18.70	4.59	28.77	0.00	46.00	-17.23
7	599.410	5.68	18.99	2.54	27.21	0.00	46.00	-18.79

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.

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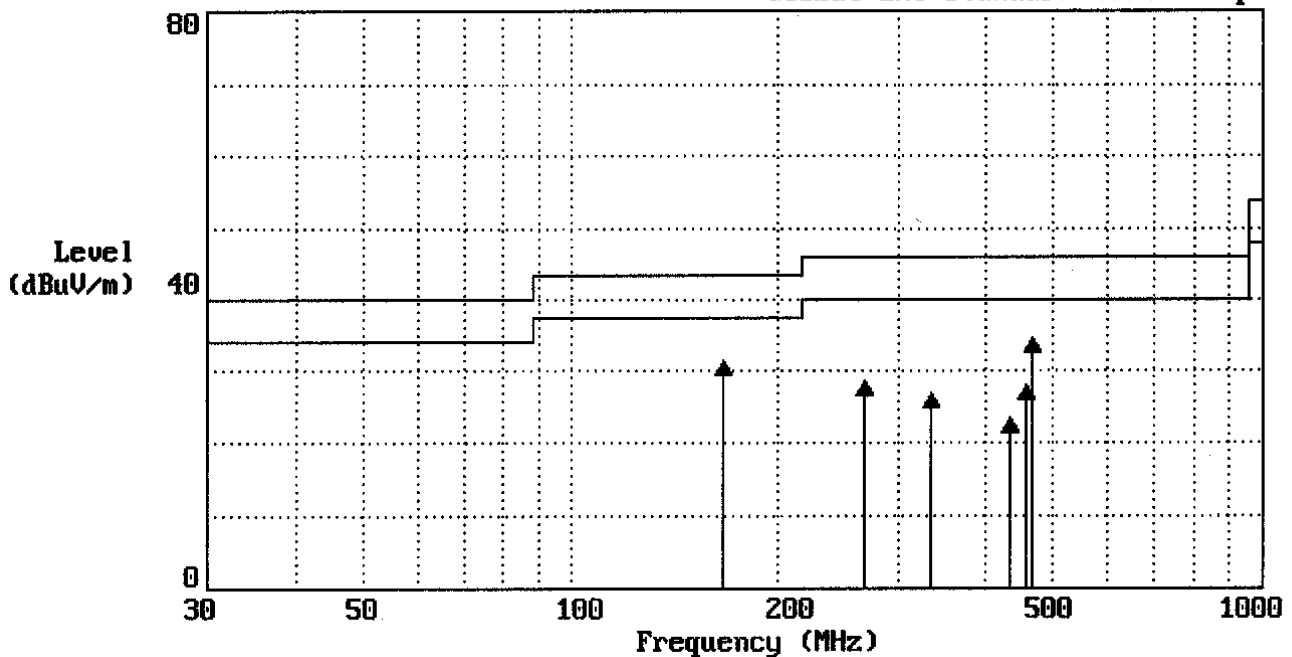
Date of Test	June 30, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 2 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(μV)]	Emission Level [dB(μV/m)]	Amp. Factor [dB]	Limit [dB(μV/m)]	Margin [dB]
1	166.158	2.35	10.78	18.41	31.54	0.00	43.50	-11.96
2	266.317	3.25	13.13	12.40	28.78	0.00	46.00	-17.22
3	333.159	3.92	14.89	8.15	26.96	0.00	46.00	-19.04
4	432.165	4.61	16.92	2.15	23.68	0.00	46.00	-22.32
5	457.190	4.82	17.24	6.15	28.21	0.00	46.00	-17.79
6	465.291	4.82	17.34	12.54	34.70	0.00	46.00	-11.30

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is the worse case emission level.

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<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 1 (802.11b) Channel 1	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4824.00	47.62	0.68	48.30	74.00	-25.70
2	7235.50	44.40	7.33	< 51.73	74.00	-22.27
3	9648.25	45.96	7.67	< 53.63	74.00	-20.37

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 1 (802.11b) Channel 1	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at Vertical	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4824.00	52.09	1.89	53.98	74.00	-20.02
2	7235.75	45.87	7.93	< 53.80	74.00	-20.20
3	9648.00	43.62	9.65	< 53.27	74.00	-20.73

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 1 (802.11b) Channel 6	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4874.00	47.58	1.02	48.60	74.00	-25.40
2	7310.25	43.84	7.59	< 51.43	74.00	-22.57
3	9748.25	44.70	8.13	< 52.83	74.00	-21.17

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	June 28, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 1 (802.11b) Channel 6	Data Rate	11Mbps
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4874.00	51.95	2.26	54.21	74.00	-19.79
2	7310.50	47.01	8.11	< 55.12	74.00	-18.88
3	9748.00	44.90	9.87	< 54.77	74.00	-19.23

## Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4872.75	38.74	2.25	40.99	54.00	-13.01
2	7311.25	34.75	8.11	< 42.86	54.00	-11.14
3	9747.75	33.70	9.87	< 43.57	54.00	-10.43

## Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 1 (802.11b) Channel 11	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4923.75	46.50	1.37	47.87	74.00	-26.13
2	7385.75	44.87	7.85	< 52.72	74.00	-21.28
3	9847.75	44.87	8.78	< 53.65	74.00	-20.35

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 1 (802.11b) Channel 11	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4923.62	49.58	2.62	52.20	74.00	-21.80
2	7386.12	44.47	8.29	< 52.76	74.00	-21.24
3	9847.75	43.28	10.28	< 53.56	74.00	-20.44

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 2 (802.11g) Channel 1	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4825.00	46.13	0.69	46.82	74.00	-27.18
2	7236.00	44.92	7.34	< 52.26	74.00	-21.74
3	9648.25	45.70	7.67	< 53.37	74.00	-20.63

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	June 28, 2004	Temperature	25 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	55 %RH
Working Cond.	Mode 2 (802.11g) Channel 1	Data Rate	54Mbps
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4823.00	46.86	1.88	48.74	74.00	-25.26
2	7236.50	45.72	7.93	< 53.65	74.00	-20.35
3	9647.75	43.71	9.64	< 53.35	74.00	-20.65

## Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 2 (802.11g) Channel 6	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4872.50	46.18	1.01	47.19	74.00	-26.81
2	7311.25	45.01	7.60	< 52.61	74.00	-21.39
3	9749.25	44.93	8.14	< 53.07	74.00	-20.93

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 2 (802.11g) Channel 6	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at Vertical	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4873.75	46.42	2.26	48.68	74.00	-25.32
2	7310.75	45.04	8.11	< 53.15	74.00	-20.85
3	9748.50	42.79	9.87	< 52.66	74.00	-21.34

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 2 (802.11g) Channel 11	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4924.00	44.89	1.37	46.26	74.00	-27.74
2	7386.25	45.55	7.85	< 53.40	74.00	-20.60
3	9847.75	44.59	8.78	< 53.37	74.00	-20.63

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	25 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	55 %RH
<b>Working Cond.</b>	Mode 2 (802.11g) Channel 11	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

## Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4924.25	44.61	2.62	47.23	74.00	-26.77
2	7386.00	43.74	8.29	< 52.03	74.00	-21.97
3	9848.25	42.55	10.28	< 52.83	74.00	-21.17

## Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

## 5. PEAK POWER OUTPUT

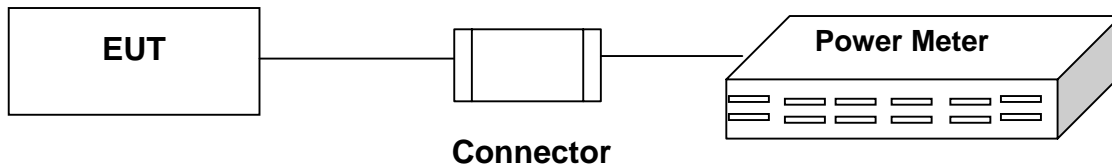
### 5.1 TEST EQUIPMENT

The following test equipments are used during the Conduct tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	03/16/04
	Spectrum Analyzer	HP	E4407B	39240339	08/16/03
2	Power Meter	Rohde & Schwarz	NRVS	100666	04/29/04
3	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	8360191058	04/29/04

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

### 5.2 BLOCK DIAGRAM OF TEST SETUP



### 5.3 PEAK POWER OUTPUT LIMIT

The maximum peak power shall be less 1 Watt.



## 5.4 TEST RESULT

<b>Date of Test</b>	June 23, 2004	<b>Temperature</b>	23 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	56 %RH
<b>Test Mode</b>	Mode 1	<b>Data Rate</b>	11Mbps

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
1	2412	18.26	1W(30dBm)	Pass
6	2437	18.46	1W(30dBm)	Pass
11	2462	18.03	1W(30dBm)	Pass

<b>Date of Test</b>	June 23, 2004	<b>Temperature</b>	23 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	56 %RH
<b>Test Mode</b>	Mode 2	<b>Data Rate</b>	54Mbps

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
1	2412	19.10	1W(30dBm)	Pass
6	2437	19.34	1W(30dBm)	Pass
11	2462	18.82	1W(30dBm)	Pass

## 6. BAND EDGE

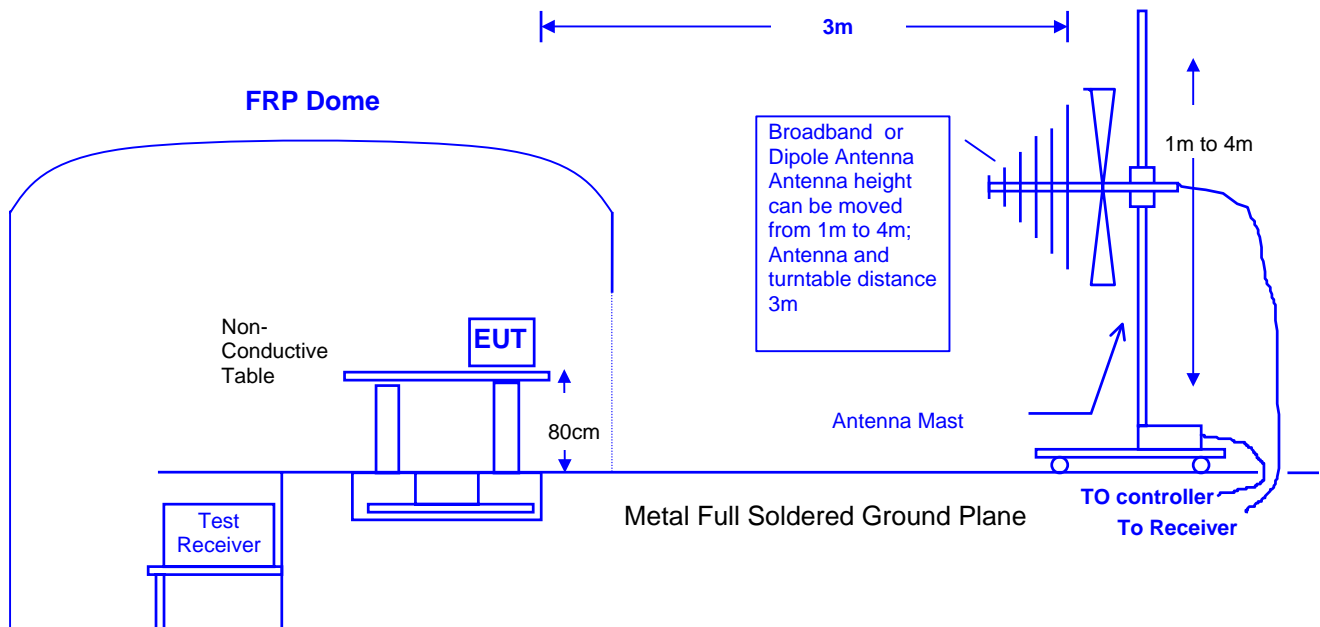
### 6.1 TEST EQUIPMENT

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	Rohde & Schwarz	ESVS30	829007/014	12/13/03
2	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	03/16/04
3	Spectrum Analyzer	HP	E4407B	39240339	08/16/03
4	Power Meter	Rohde & Schwarz	NRVS	100666	04/29/04
5	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	8360191058	04/29/04
6	Pre-Amplifier	HP	8449B	3008A01263	03/10/04
7	BILOG ANTENNA	SCHAFFNER	CBL6112B	2620	12/01/03
8	Horn Antenna	Electro-Metrics	EM-6961	103318	05/30/03
9	Horn Antenna	Schwarzbeck	BBHA 9120	D243	12/18/03
10	RF Cable	GesTek	N/A	GTK-E-A151-01	02/09/04
11	Open Site	GesTek	N/A	B1	11/25/03
12	Test Program Software	GesTek	N/A	GTK-E-S001-01	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

### 6.2 BLOCK DIAGRAM OF TEST SETUP

⊙ RF Radiated Measurement: ⊙



### 6.3 BAND EDGE LIMIT

In any 100KHz 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 100KHz 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)).

### 6.4 EUT CONFIGURATION

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 C63.4:2000 on radiated measurement.

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

### 6.5 OPERATING CONDITION OF EUT

Same as section 2.8.

## 6.6 TEST RESULT

<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	24 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	57 %RH
<b>Test Mode</b>	Mode 1 (Channel 1)	<b>Data Rate</b>	11Mbps

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

### Horizontal

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]
1	2399.50	50.92	-2.93	47.99
2	2400.00	49.12	-2.93	46.19
3	2409.00	90.87	-2.85	88.02

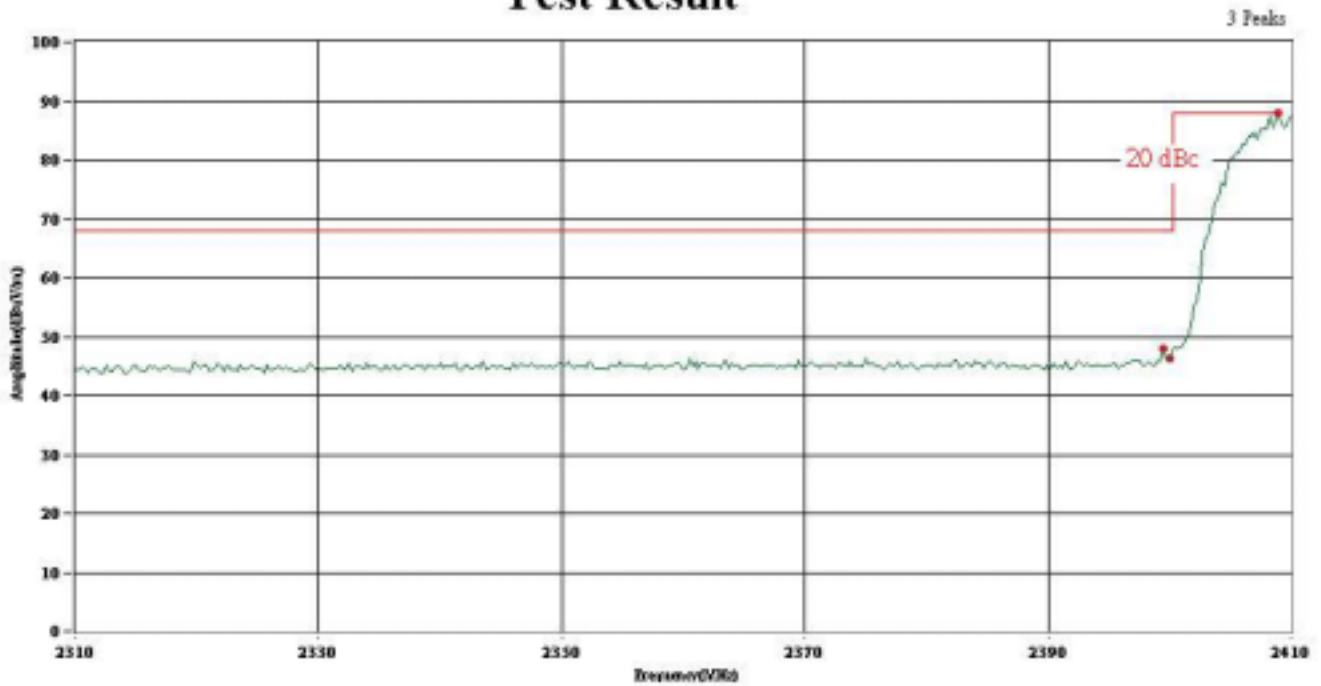
### Vertical

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]
1	2398.00	65.31	-7.43	-57.88
2	2400.00	62.84	-7.42	-55.42
3	2409.00	106.54	-7.37	-99.17

Note: RBW=100kHz, VBW=100kHz

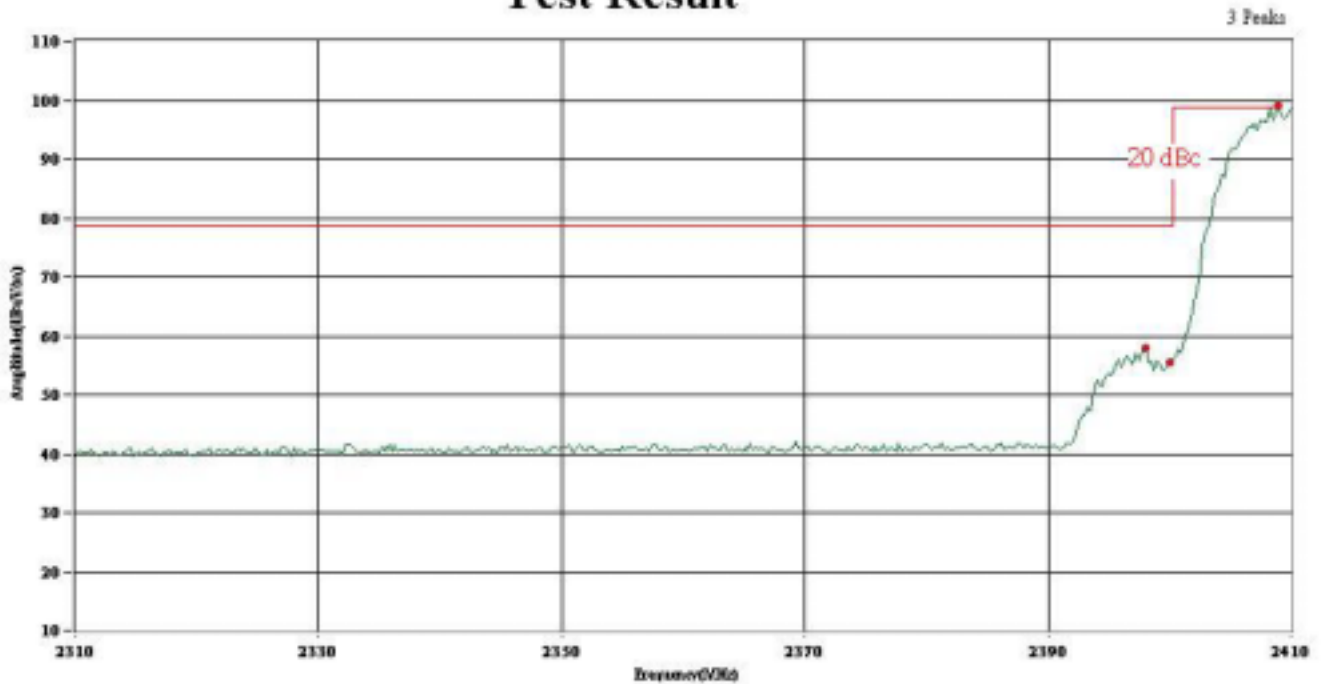
Horizontal

### Test Result



Vertical

### Test Result



<b>Date of Test</b>	June 28, 2004	<b>Temperature</b>	24 deg/C
<b>EUT</b>	Wireless Lan 11g mini PCI adapter	<b>Humidity</b>	57 %RH
<b>Test Mode</b>	Mode 2 (Channel 1)	<b>Data Rate</b>	54Mbps

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

**Horizontal**

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]
1	2358.00	49.63	-3.31	46.32
2	2400.00	48.30	-2.93	45.37
3	2406.50	85.97	-2.87	83.10

**Vertical**

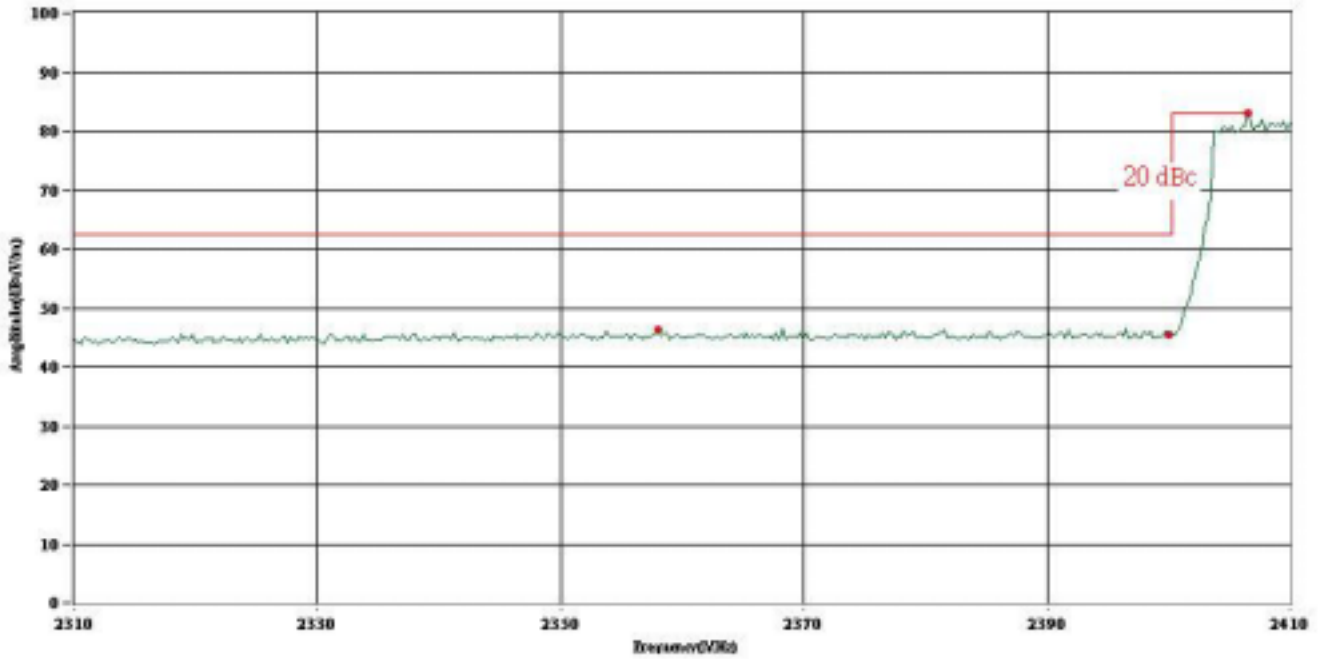
No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]
1	2399.50	61.04	-7.42	53.62
2	2400.00	62.07	-7.42	54.65
3	2407.75	101.29	-7.37	93.92

Note: RBW=100kHz, VBW=100kHz

Horizontal

### Test Result

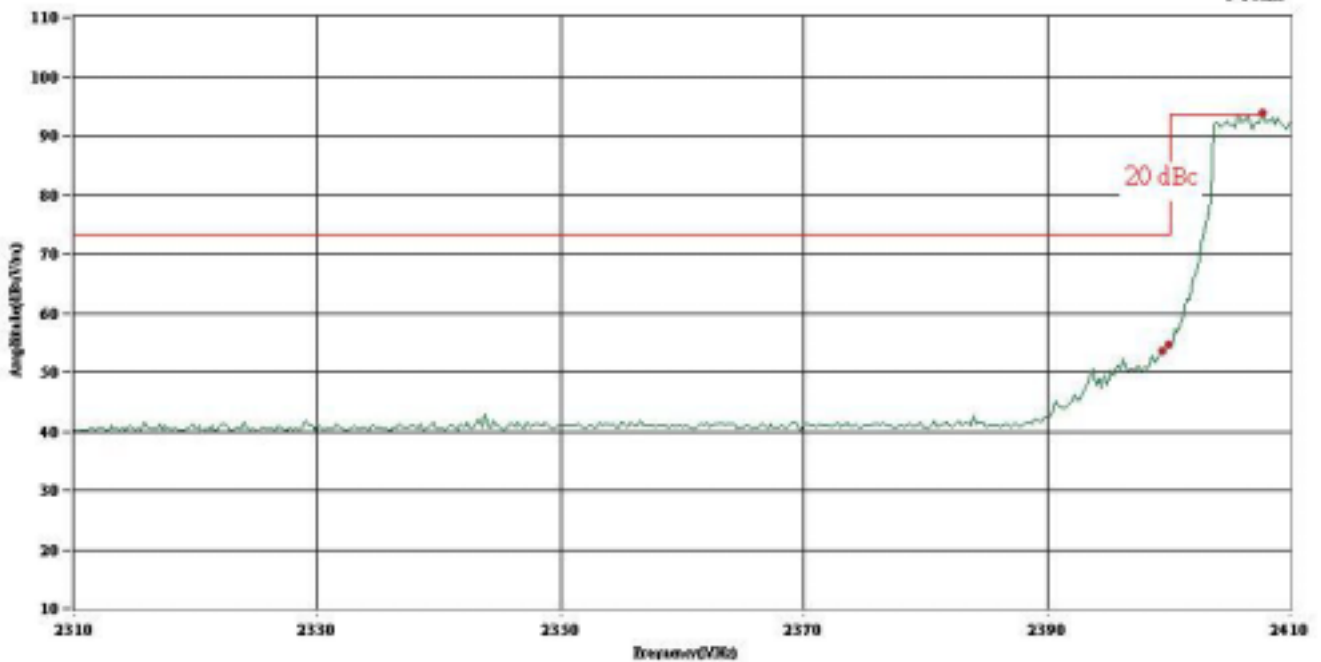
3 Peaks



Vertical

### Test Result

3 Peaks



Date of Test	June 29, 2004	Temperature	24 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	56 %RH
Working Cond.	Mode 1 (Channel 11)	Data Rate	11Mbps
Antenna distance	3m at <b>Horizontal</b>		

## Radiation Emission of Fundamental Peak

No.	Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]	Limit [dB(uV/m)]	Result
1	2462	54.22	34.14	88.36	N/A	N/A

## Average

No.	Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]	Limit [dB(uV/m)]	Result
1	2461.9	53.21	34.13	87.34	N/A	N/A

### Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
- Average Value= peak value -20log(duty cycle).
- Emission Level= Reading + Correction Factor (Could have  $\pm 0.01$  tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, base upon Bluetooth theory the transmitter is on  $0.625 \times 5$  per 247ms per channel. For this reason the duty cycle is  $20 \log(3.125/100) = -30\text{dB}$

## TEST Result

The band edge emission plot on page 50 show 52.64 dB delta between carry power and maximum emission in restrict band 2488.4 MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2488.4 MHz is 88.36 dBuV/m – 52.64 dB = 35.72 dBuV/m which is under 74dBuV/m.

Average field strength of 2488.4 MHz is 87.34 dBuV/m – 52.64 dB = 34.7 dBuV/m which is under 54dBuV/m.



Date of Test	June 29, 2004	Temperature	24 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	56 %RH
Working Cond.	Mode 1 (Channel 11)	Data Rate	11Mbps
Antenna distance	3m at <b>Vertical</b>		

## Radiation Emission of Fundamental Peak

No.	Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]	Limit [dB(uV/m)]	Result
1	2462	78.38	29.46	107.84	N/A	N/A

## Average

No.	Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]	Limit [dB(uV/m)]	Result
1	2461.8	70.71	29.46	100.17	N/A	N/A

### Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
- Average Value= peak value -20log(duty cycle).
- Emission Level= Reading + Correction Factor (Could have  $\pm 0.01$  tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, base upon Bluetooth theory the transmitter is on  $0.625 \times 5$  per 247ms per channel. For this reason the duty cycle is  $20 \log(3.125/100) = -30\text{dB}$

## TEST Result

The band edge emission plot on page 50 show 52.64 dB delta between carry power and maximum emission in restrict band 2488.4 MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2488.4 MHz is 107.84 dBuV/m – 52.64 dB = 55.2 dBuV/m which is under 74dBuV/m.

Average field strength of 2488.2 MHz is 100.17 dBuV/m – 52.64 dB = 47.53 dBuV/m which is under 54dBuV/m.



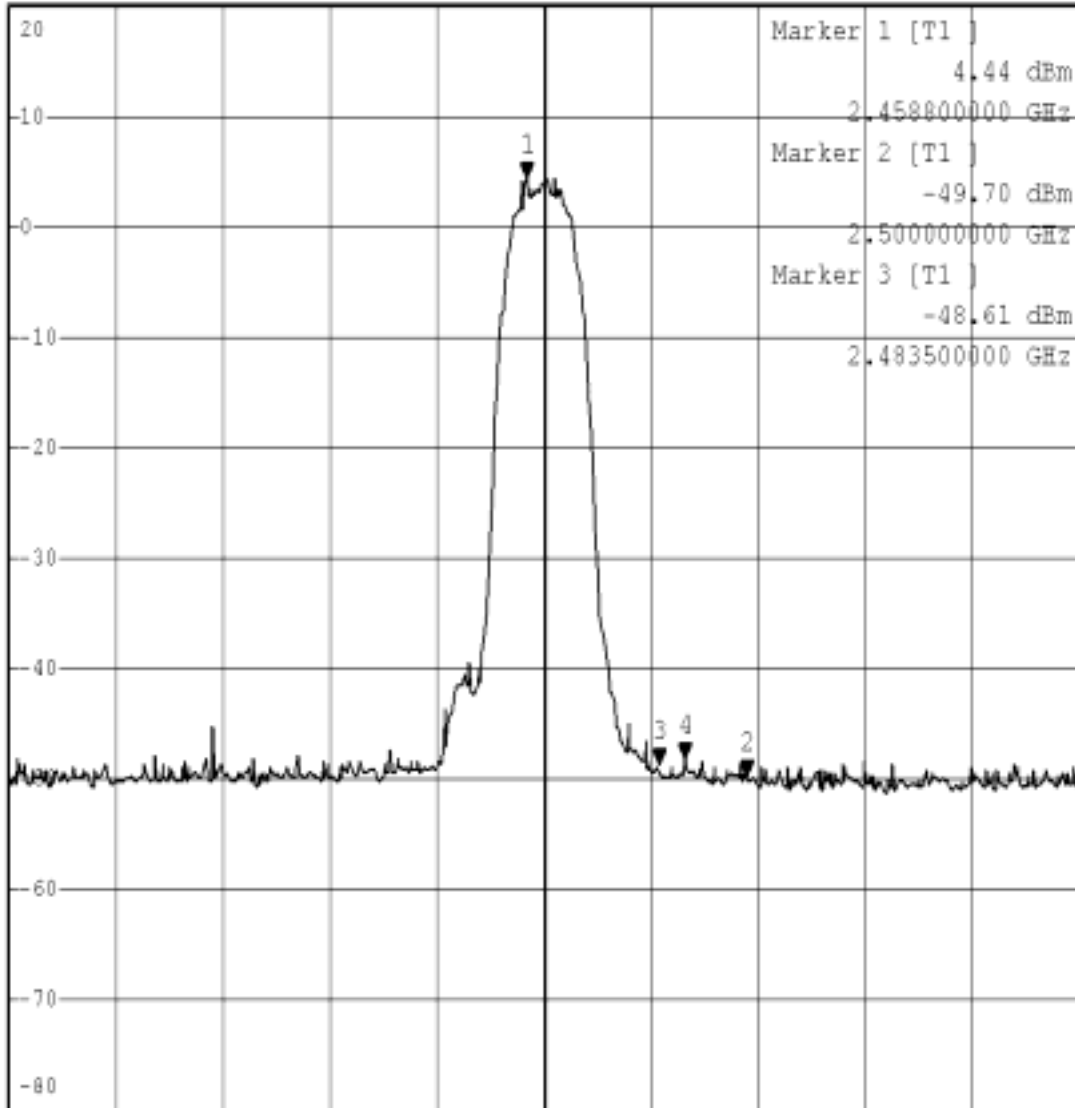
\*RBW 100 kHz Marker 4 [T1 ]  
 \*VBW 100 kHz -48.20 dBm  
 \*SWT 500 ms 2.488400000 GHz

Ref 20 dBm

\*Att 30 dB

2.488400000 GHz

1 PR  
 VIEW



Center 2.462 GHz

20 MHz/

Span 200 MHz

Date: 29.JUN.2004 11:00:30

Date of Test	June 29, 2004	Temperature	24 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	56 %RH
Working Cond.	Mode 2 (Channel 11)	Data Rate	54Mbps
Antenna distance	3m at <b>Horizontal</b>		

## Radiation Emission of Fundamental Peak

No.	Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]	Limit [dB(uV/m)]	Result
1	2463.7	58.12	34.15	92.27	N/A	N/A

## Average

No.	Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]	Limit [dB(uV/m)]	Result
1	2459.8	47.73	34.12	81.85	N/A	N/A

### Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz.
- Average Value= peak value -20log(duty cycle).
- Emission Level= Reading + Correction Factor (Could have  $\pm 0.01$  tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, base upon Bluetooth theory the transmitter is on  $0.625 \times 5$  per 247ms per channel. For this reason the duty cycle is  $20\log(3.125/100) = -30\text{dB}$

## TEST Result

The band edge emission plot on page 53 show 48.05 dB delta between carry power and maximum emission in restrict band 2491.2 MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2491.2 MHz is 92.27 dBuV/m – 48.05 dB = 44.22 dBuV/m which is under 74dBuV/m.

Average field strength of 2491.2 MHz is 81.85 dBuV/m – 48.05 dB = 33.8 dBuV/m which is under 54dBuV/m.

Date of Test	June 29, 2004	Temperature	24 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	56 %RH
Working Cond.	Mode 2 (802.11g ) Channel 11	Data Rate	54Mbps
Antenna distance	3m at <b>Vertical</b>		

## Radiation Emission of Fundamental Peak

No.	Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]	Limit [dB(uV/m)]	Result
1	2463.8	76.12	29.47	105.59	N/A	N/A

## Average

No.	Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]	Limit [dB(uV/m)]	Result
1	2461.1	64.64	29.45	94.09	N/A	N/A

### Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
- Average Value= peak value -20log(duty cycle).
- Emission Level= Reading + Correction Factor (Could have  $\pm 0.01$  tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, base upon Bluetooth theory the transmitter is on  $0.625 \times 5$  per 247ms per channel. For this reason the duty cycle is  $20\log(3.125/100) = -30\text{dB}$

## TEST Result

The band edge emission plot on page 53 show 48.05 dB delta between carry power and maximum emission in restrict band 2491.2 MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2491.2 MHz is 105.59 dBuV/m – 48.05 dB = 57.54 dBuV/m which is under 74dBuV/m.

Average field strength of 491.2 MHz is 94.09 dBuV/m – 48.05 dB = 46.04 dBuV/m which is under 54dBuV/m.



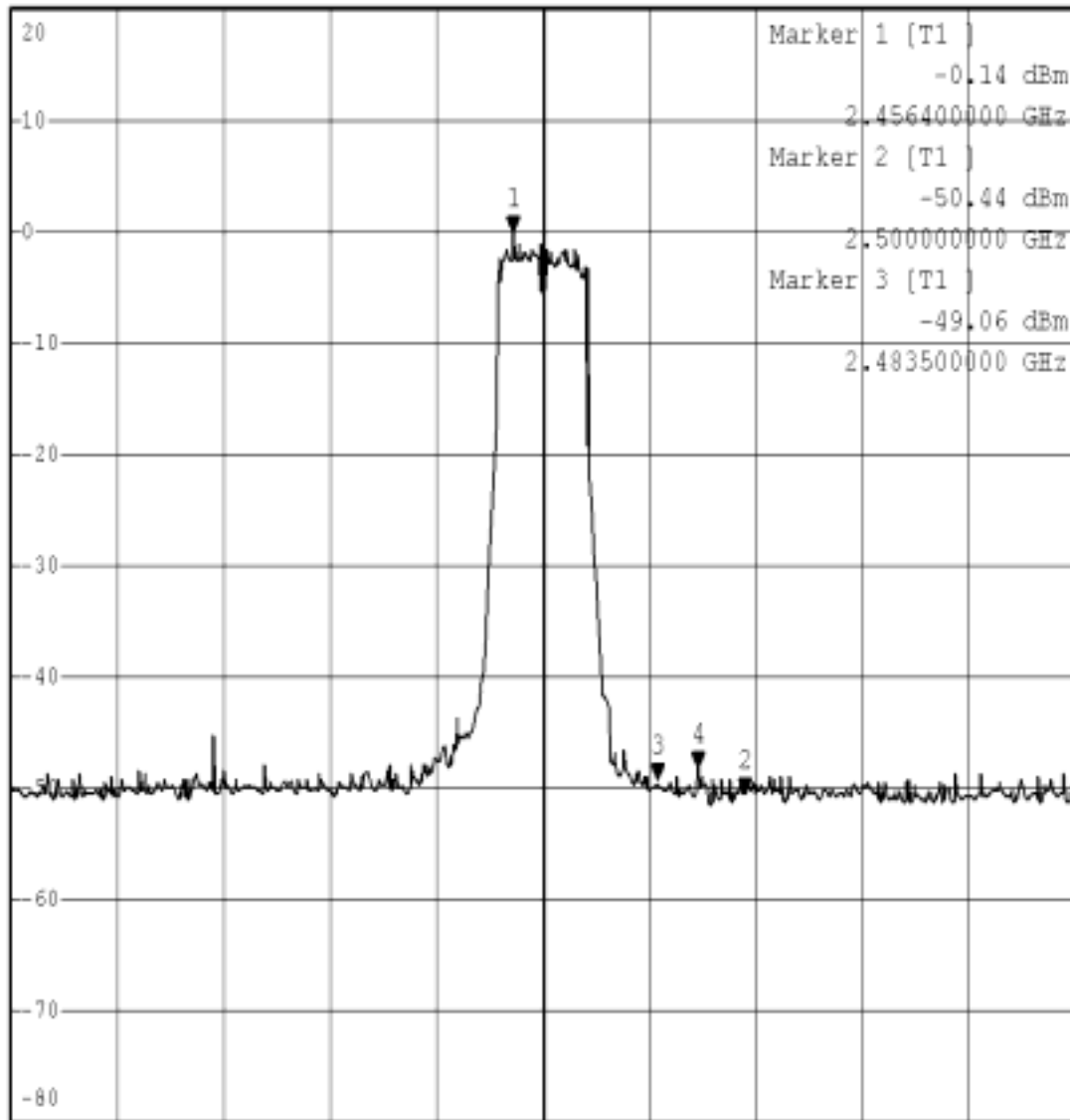
\*RBW 100 kHz Marker 4 [T1 ]  
\*VBW 100 kHz -48.19 dBm  
\*SWT 500 ms 2.491200000 GHz

Ref 20 dBm

\*Att 30 dB

2.491200000 GHz

1 PR  
VIEW



Center 2.462 GHz

20 MHz/

Span 200 MHz

Date: 29.JUN.2004 11:02:27

## 7. OCCUPIED BANDWIDTH

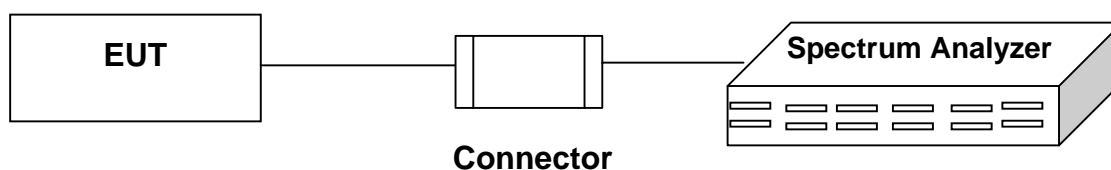
### 7.1 TEST EQUIPMENT

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

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	03/16/04
2	Spectrum Analyzer	HP	E4407B	39240339	08/16/03

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

### 7.2 BLOCK DIAGRAM OF TEST SETUP



### 7.3 LIMIT

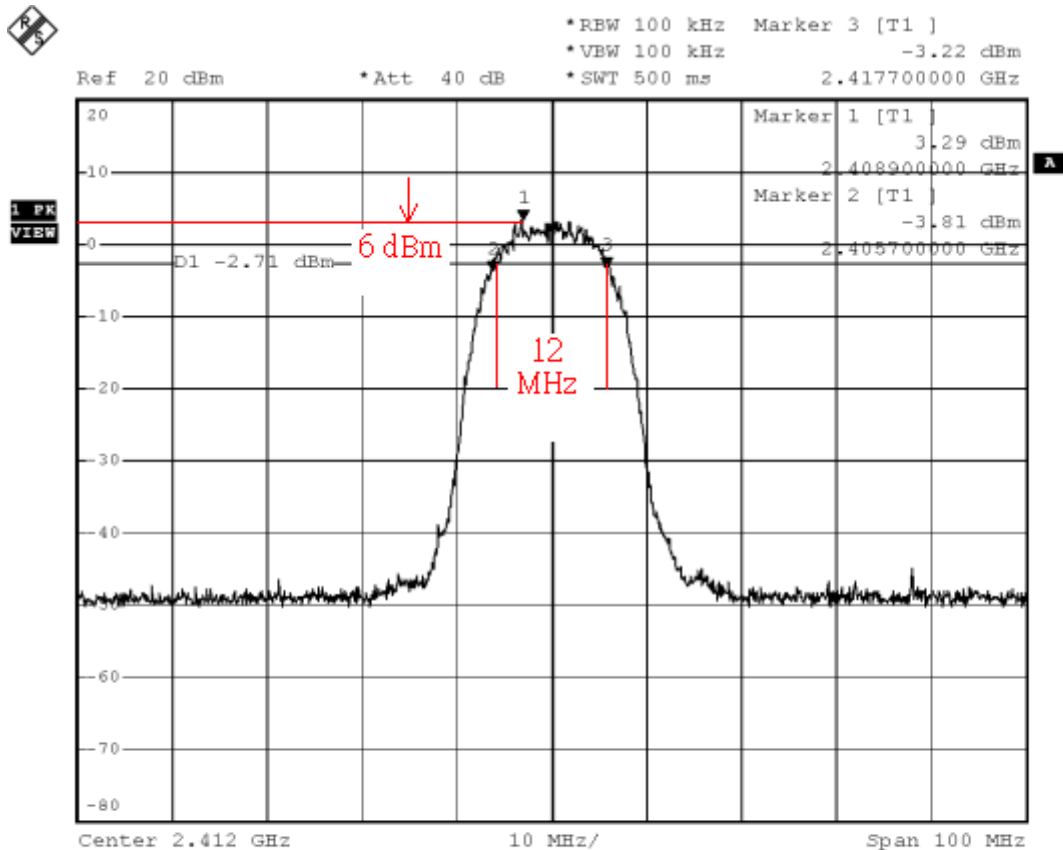
WLAN: The minimum 6dB bandwidth shall be at least 500KHz.

### 7.4 TEST RESULT

Date of Test	June 24, 2004	Temperature	23 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	56 %RH
Working Cond.	Mode 1	Data Rate	11Mbps

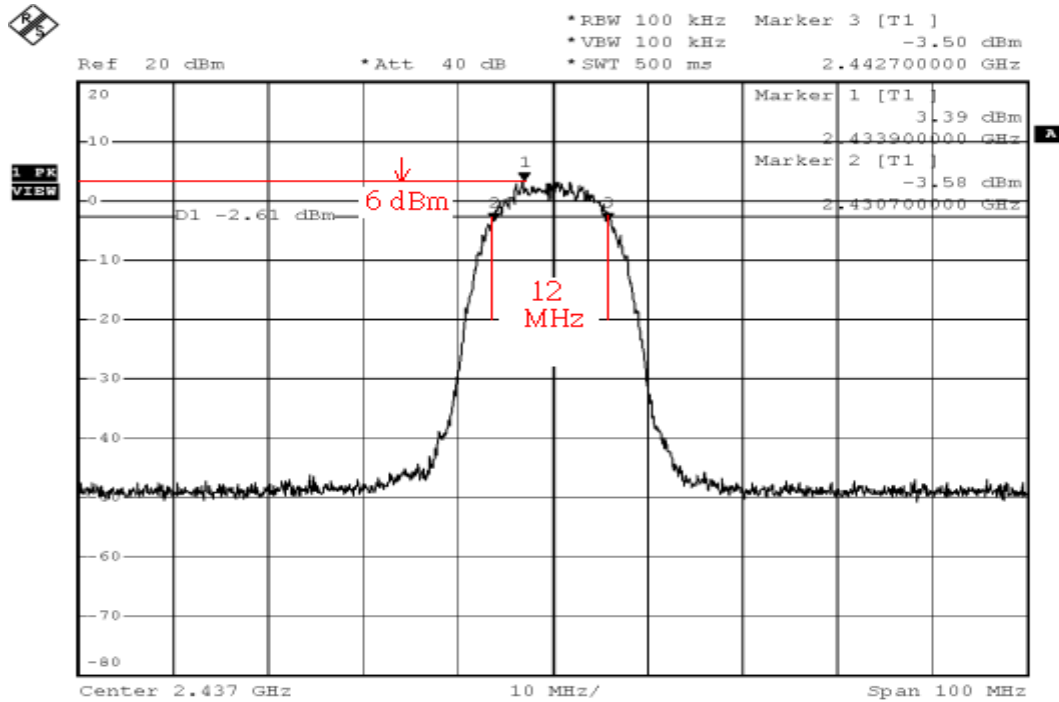
Channel No.	Frequency (MHz)	Bandwidth (MHz)	Required limit (KHz)	Result
1	2412	12	>500	Pass
6	2437	12	>500	Pass
11	2462	12	>500	Pass

Figure Channel 1:



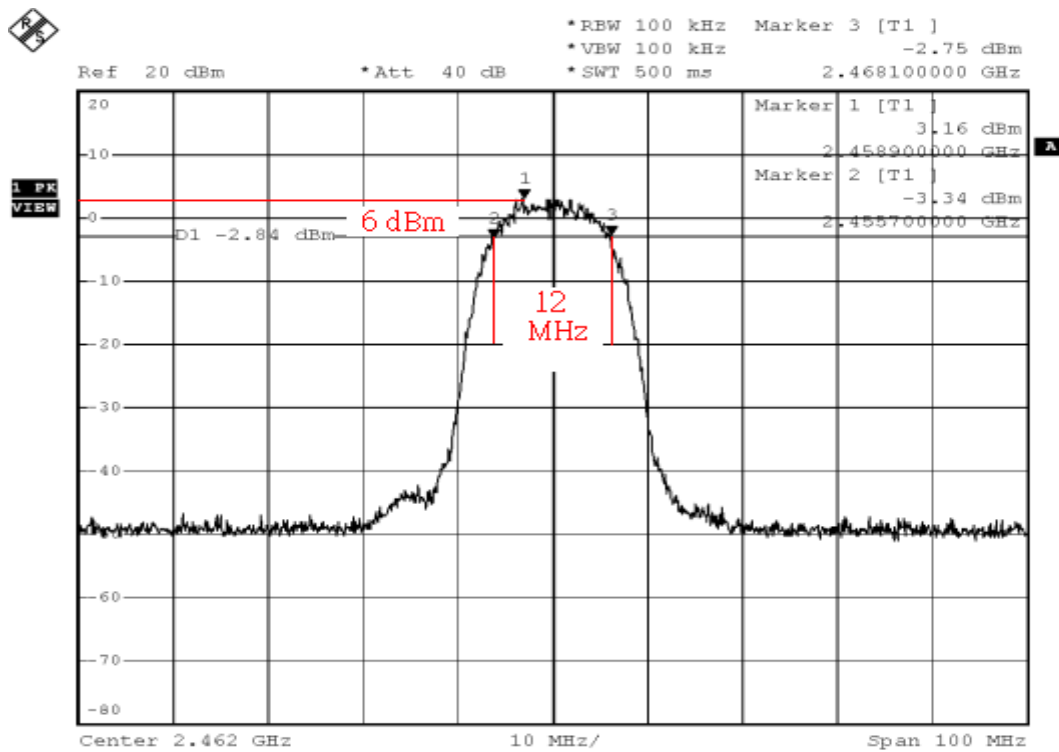
Date: 24.JUN.2004 15:55:27

Figure Channel 6:



Date: 24.JUN.2004 15:57:02

Figure Channel 11:



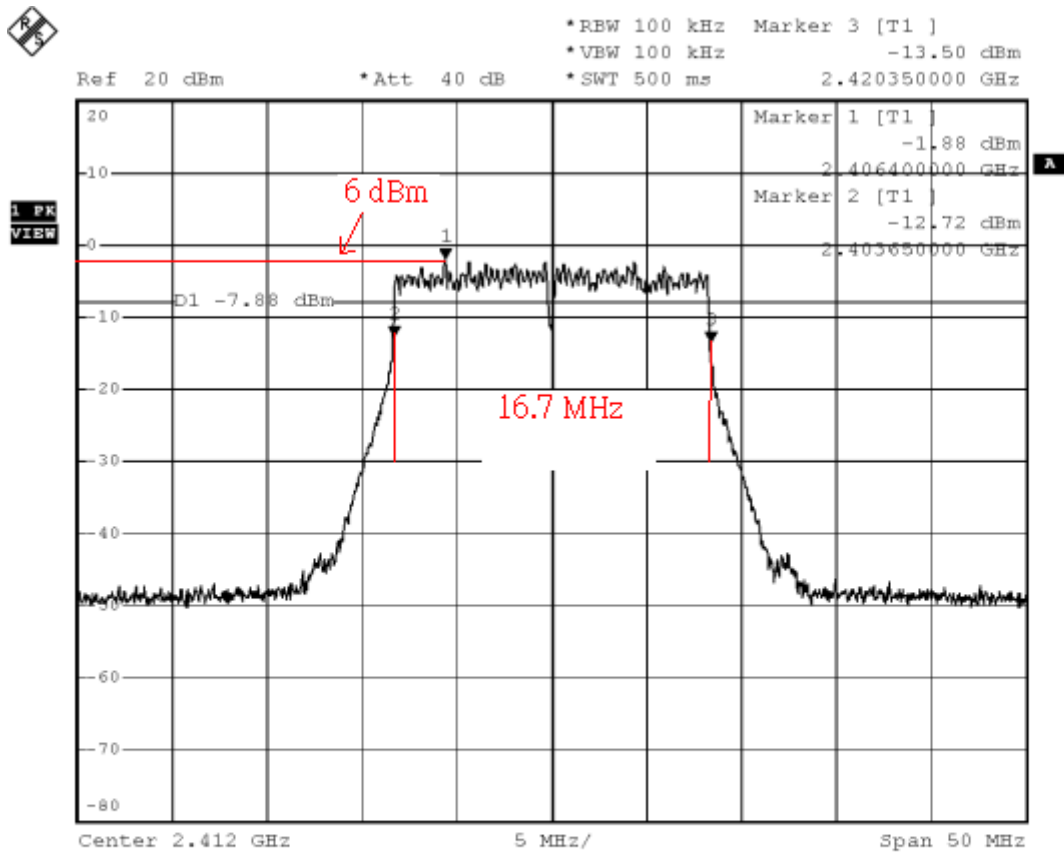
Date: 24.JUN.2004 15:58:56



Date of Test	June 24, 2004	Temperature	23 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	56 %RH
Working Cond.	Mode 2	Data Rate	54ps

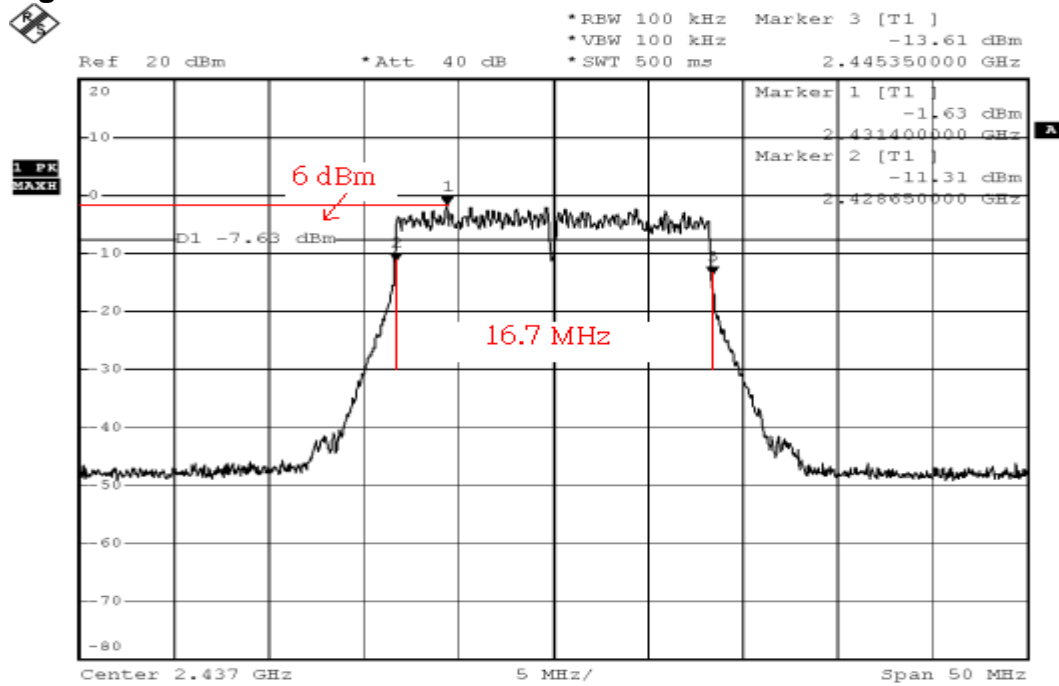
Channel No.	Frequency (MHz)	Bandwidth (MHz)	Required limit (KHz)	Result
1	2412	16.7	>500	Pass
6	2437	16.7	>500	Pass
11	2462	16.7	>500	Pass

Figure Channel 1:



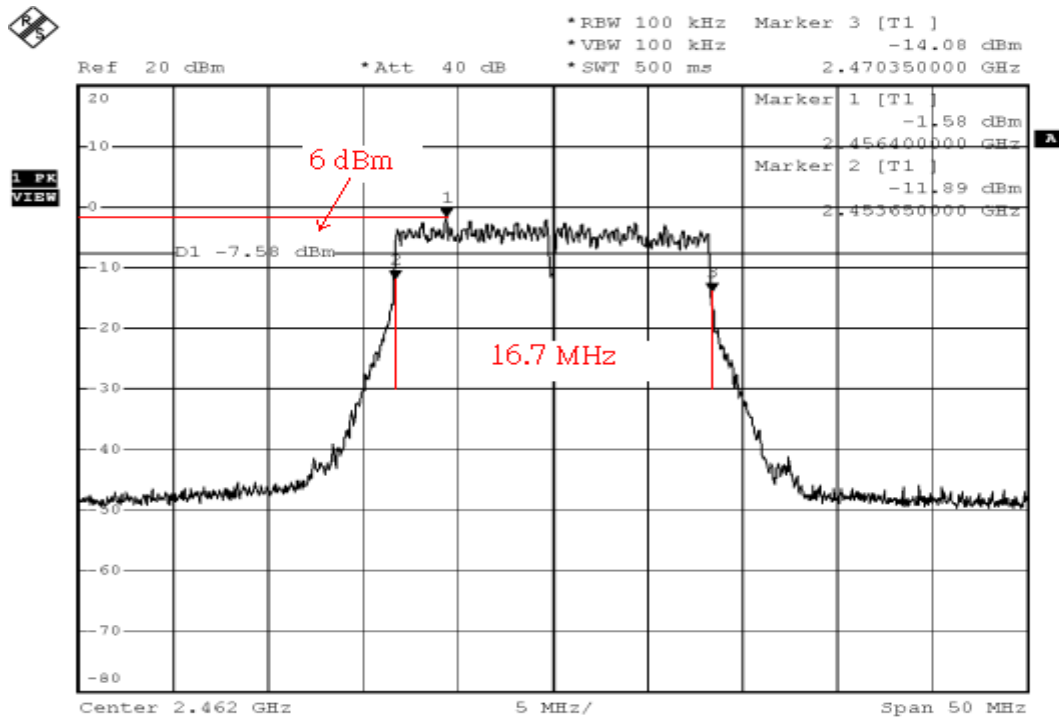
Date: 24.JUN.2004 16:02:54

Figure Channel 6:



Date: 24.JUN.2004 16:04:37

Figure Channel 11:



Date: 24.JUN.2004 16:06:29

## 8. POWER DENSITY

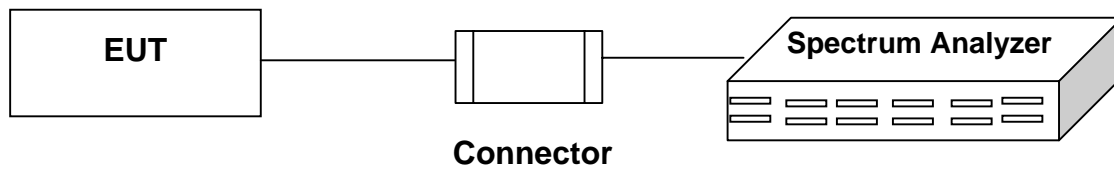
### 8.1 TEST EQUIPMENT

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

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	03/16/04
2	Spectrum Analyzer	HP	E4407B	39240339	08/16/03

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

### 8.2 BLOCK DIAGRAM OF TEST SETUP



### 8.3 LIMIT

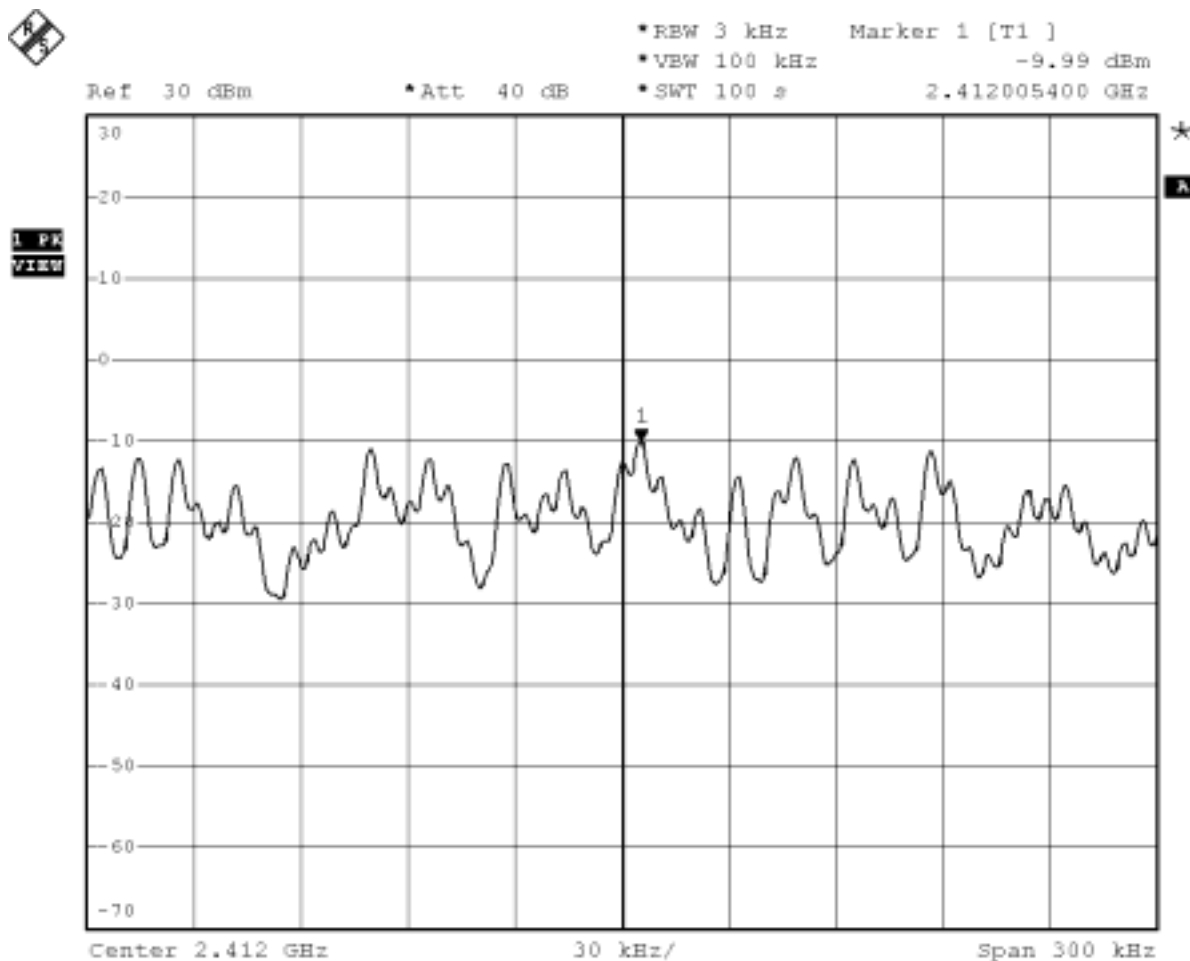
The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3KHz bandwidth.

### 8.4 TEST RESULT

Date of Test	July 13 2004	Temperature	23 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	56 %RH
Working Cond.	Mode 1	Data Rate	11Mbps

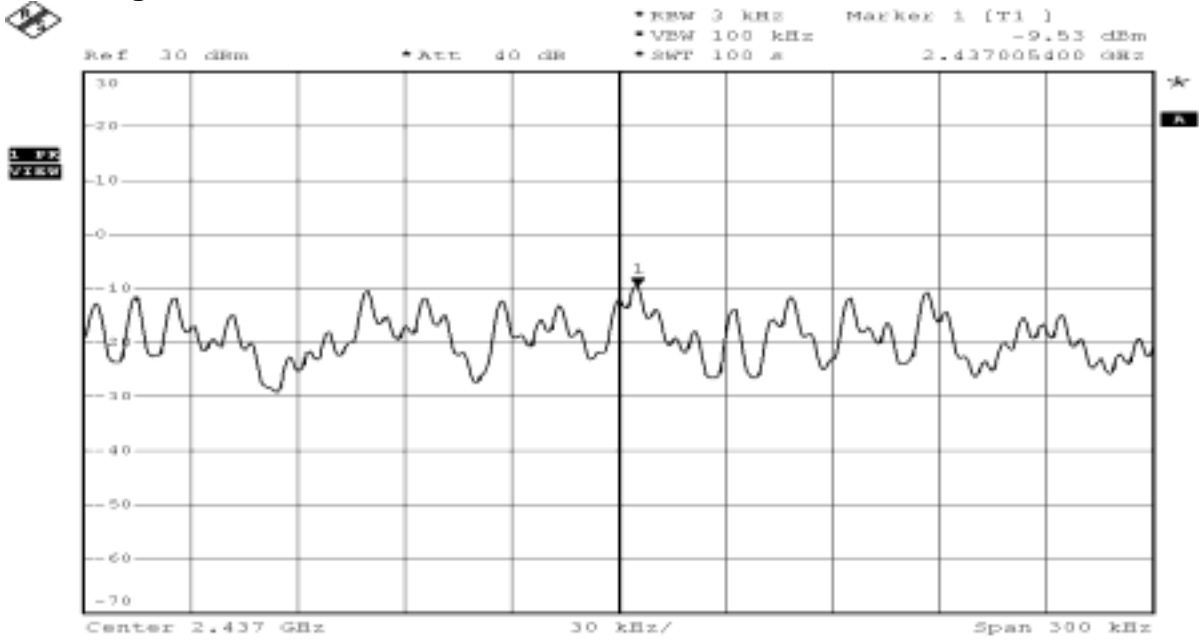
Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required limit (dBm)	Result
1	2412	-9.99	<10dBm	Pass
6	2437	-9.53	<10dBm	Pass
11	2462	-9.57	<10dBm	Pass

Figure Channel 1:



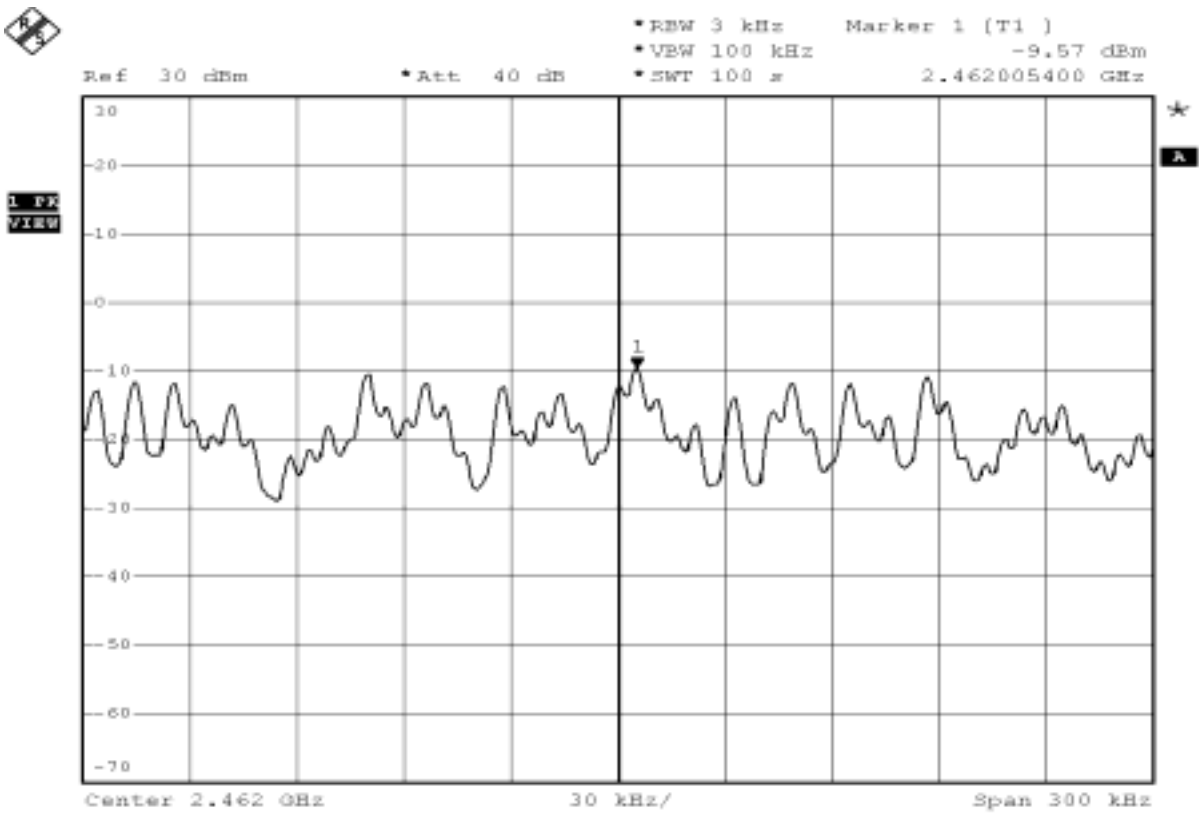
Date: 13.JUL.2004 17:21:35

Figure Channel 6:



Date: 13.JUL.2004 17:24:20

Figure Channel 11:

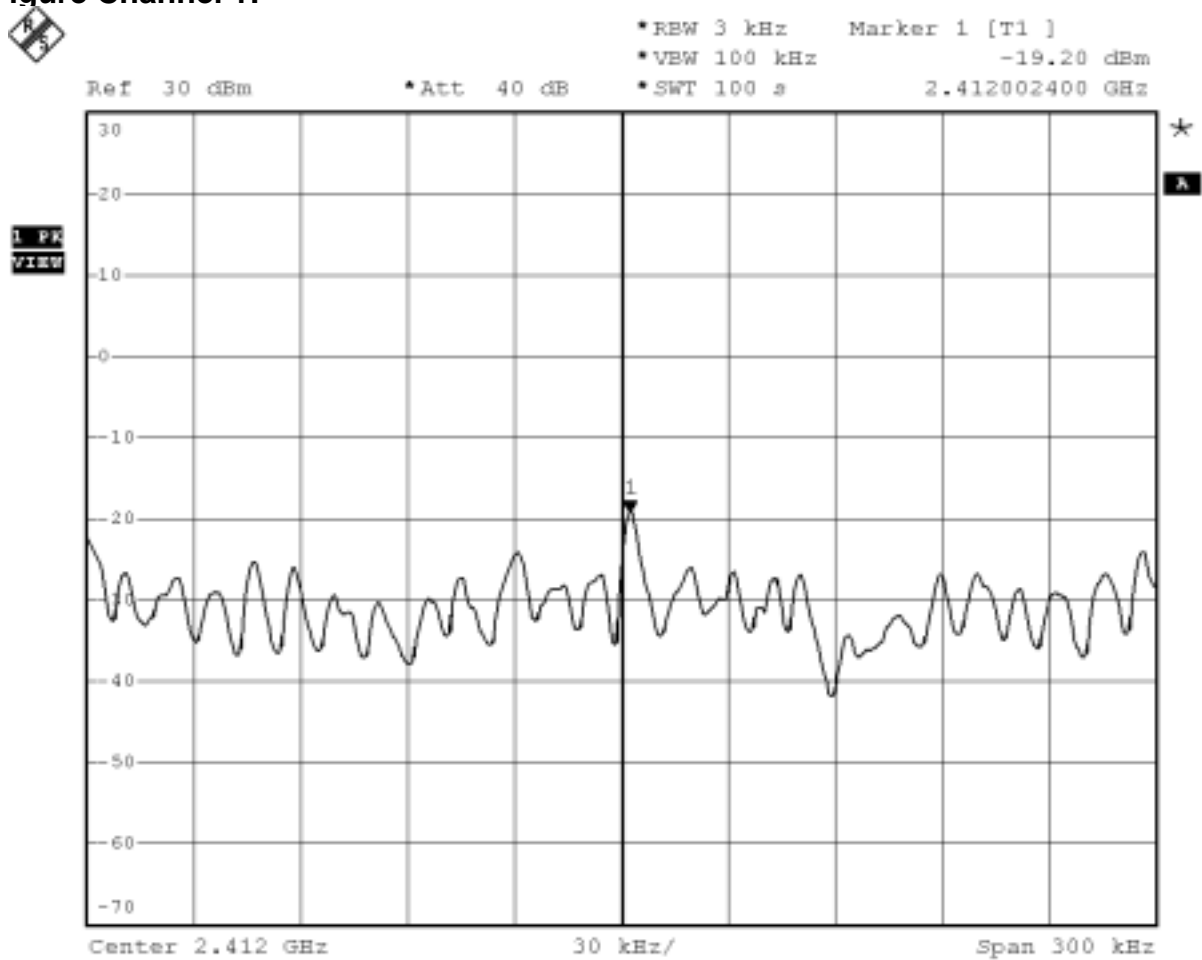


Date: 13.JUL.2004 17:27:15

Date of Test	July 13 2004	Temperature	23 deg/C
EUT	Wireless Lan 11g mini PCI adapter	Humidity	56 %RH
Working Cond.	Mode 2	Data Rate	54Mbps

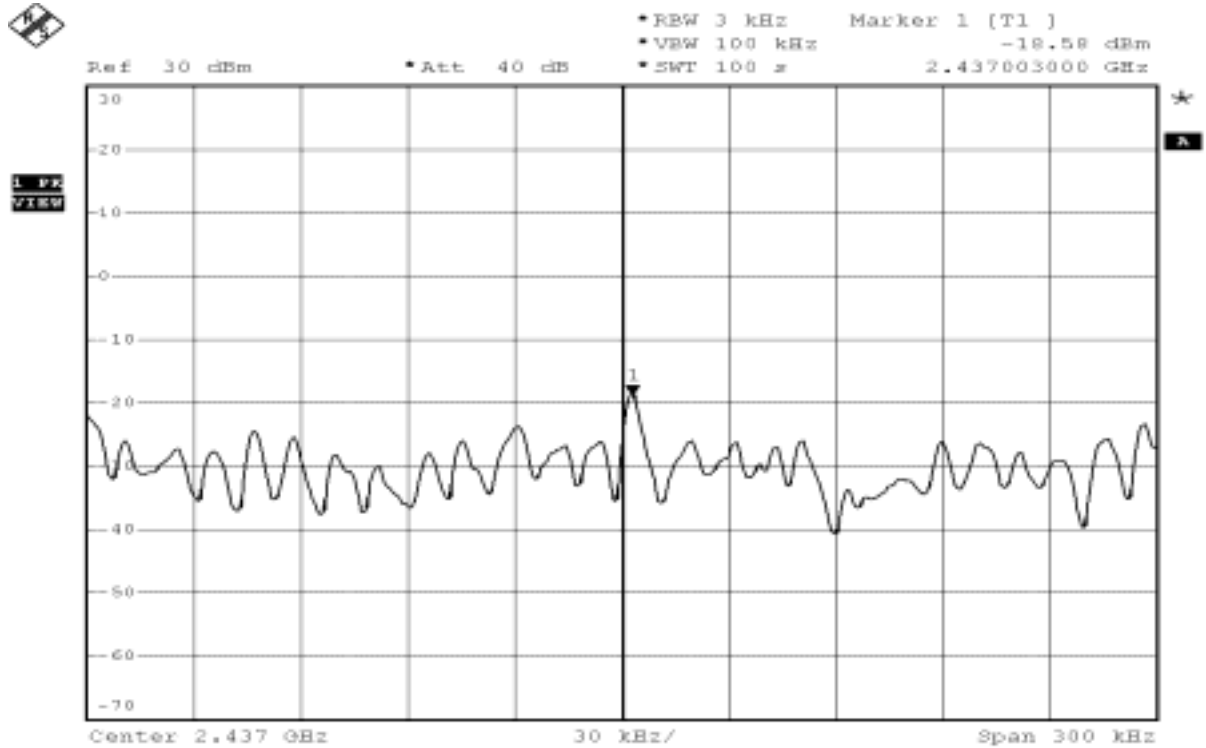
Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required limit (dBm)	Result
1	2412	-19.2	<10dBm	Pass
6	2437	-18.58	<10dBm	Pass
11	2462	-18.73	<10dBm	Pass

Figure Channel 1:



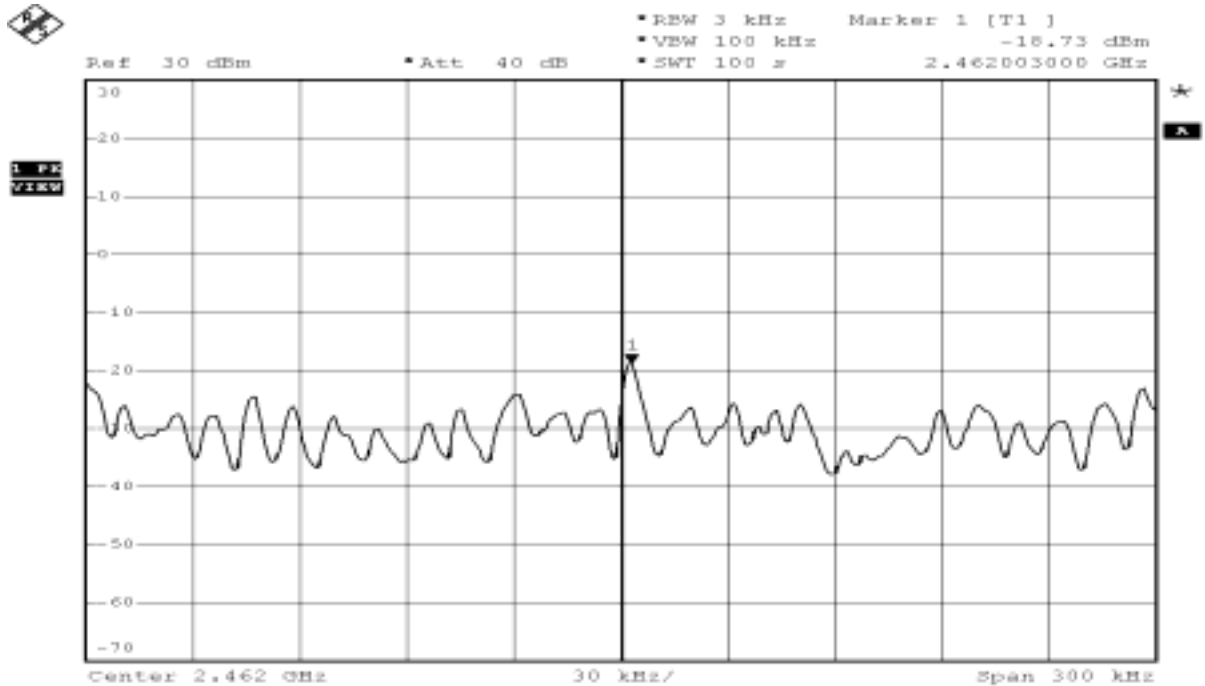
Date: 13.JUL.2004 17:30:06

Figure Channel 6:



Date: 13.JUL.2004 17:32:55

Figure Channel 11:



Date: 13.JUL.2004 17:36:05

## 9. PHOTOGRAPHS FOR TEST

### 9.1 TEST PHOTOGRAPHS FOR CONDUCTION





## 9.2 TEST PHOTOGRAPHS FOR RADIATION

30-1000MHz

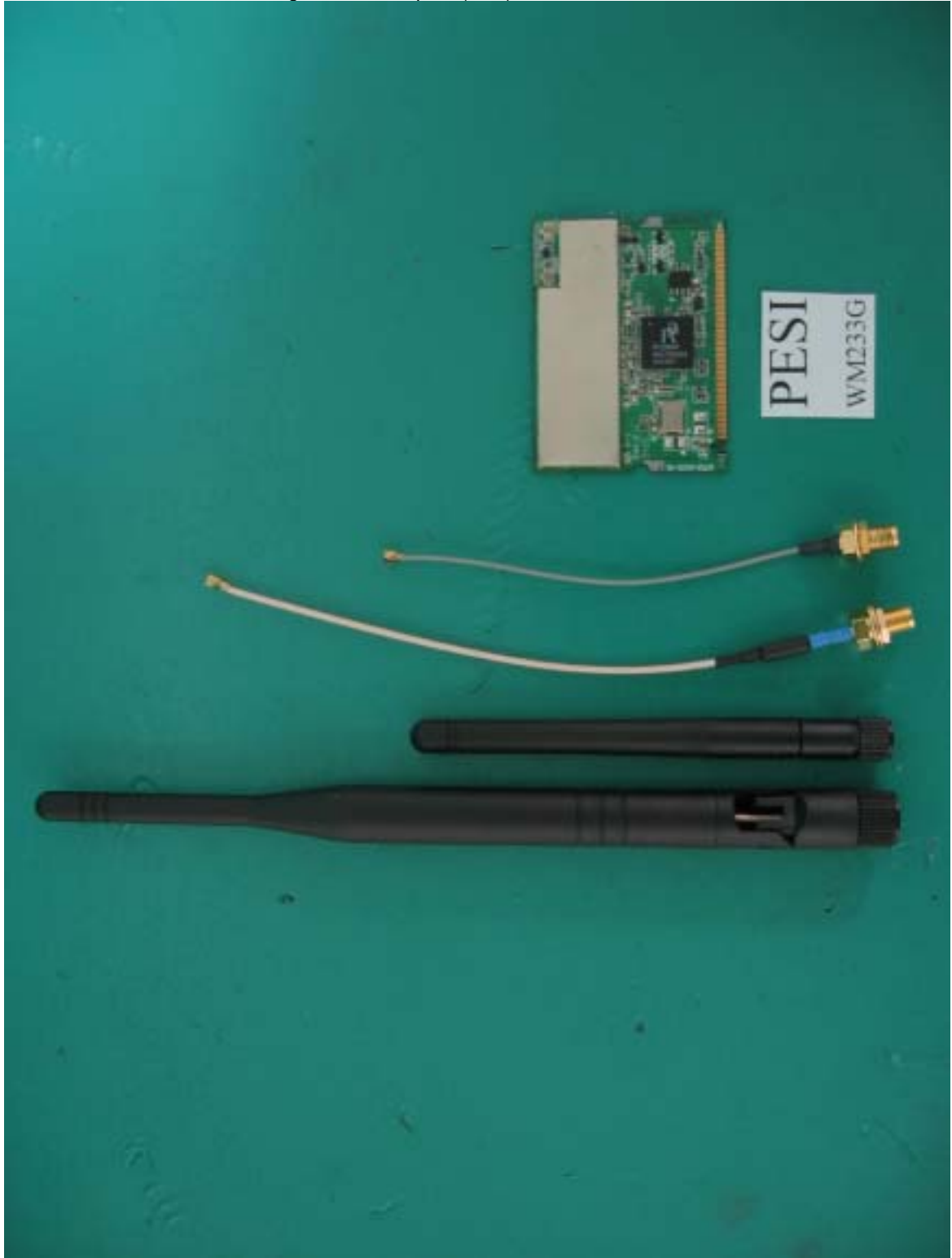


**Above 1GHz**



## 10. PHOTOGRAPHS FOR PRODUCT

### 1. Front View Of Wireless Lan 11g mini PCI adapter. (EUT)



2. Inner View Of Wireless Lan 11g mini PCI adapter. (EUT)



3. Inner View Of Wireless Lan 11g mini PCI adapter. (EUT)



4. LABEL HERE



5. Inner View Of Wireless Lan 11g mini PCI adapter. (EUT)



## 11. EMI REDUCTION METHOD DURING COMPLIANCE TESTING

No modification was made during testing.



# Appendix A

## Circuit (Block) Diagram

(Shall be added by Applicant)

# Appendix B

## User Manual

(Shall be added by Applicant)