

# Certificate of Test

October 2005

## PRIME ELECTRONICS & SATELLITICS INC.

Product Type : Wireless LAN 11g PCI adapter

Model Number : WI233L

Test Report Number : GTK-0510057

Date of Test : October 17, 2005- October 20, 2005

This Product was tested to the following standards at the laboratory of Global EMC Standard Tech. Corp., and found Compliance.

**Standards:**

FCC Part 15 Subpart C Paragraph 15.247

ANSI C63.4: 2001

<http://www.gestek.com.tw>



Sharon Chang, President

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Date: October 27, 2005



1082  
ILAC MRA





**Test Report  
Application for  
Declaration of Conformity  
On Behalf Of**

**PRIME ELECTRONICS & SATELLITICS INC.**

**EUT:**

**Wireless LAN 11g PCI adapter**

**Model Number:**

**WI233L**

**FCC ID:**

**PQP-WI233L**

**Prepared for:**

**PRIME ELECTRONICS & SATELLITICS INC.**

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- 3.The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.
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**1. CERTIFICATION**

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

EUT Description : Wireless LAN 11g PCI adapter  
 Model Number : WI233L  
 Serial Number : N/A  
 Brand Name : PESI  
 FCC ID : PQP- WI233L  
 Tested Power Supply : 120V/60Hz  
 Manufacturer : PRIME ELECTRONICS & SATELLITICS INC.

**MEASUREMENT PROCEDURES USED:**

- CFR 47, Part 15** Radio Frequency Device Subpart C Paragraph 15.247 Intentional Radiators :2005
- ANSI C63.4** Methods of Measurements of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the range of 9kHz To 40GHz. 2003

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 : **October 17, 2005**  
 Final Test Date : **October 20, 2005**

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><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><i>John Wu</i></p> <hr style="border: 0.5px solid blue;"/> <p>John Wu / eng. Dept. Engineer</p>
<p><b>Technical Reviewed By :</b></p> <p><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><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 PCI adapter  
**Model Number** : WI233L  
**Serial Number** : N/A  
**FCC ID** : PQP- WI233L  
**Modulation Type** : DBPSK, DQPSK, OFDM, CCK  
**Antenna Gain** : 2dBi and 5dBi and 2.5dBi  
**Antenna Type** : Dipole  
**Type of antenna joint** Reverse SMA  
**Frequencg Range** : 2412-2484MHz  
**Channel Number** : 11 Channel  
**Data Rate** : 1,2,5.5,11,6,9,12,18,24,36,48.54 Mbps  
**Channel Control** : Control by Software  
**Working Voltage** : DC 5V

#### 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 Wireless LAN PCI adapter and certification with three type antennas.
2. This EUT has three type antenna and non-simultaneously connect in PCB. The final test is chose 5dBi and 2.5dBi antenna. The other instruction, please look at user manual
3. 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.
4. 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.
5. 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 0510057 FCC DOC.
6. The antenna joint of EUT is reverse SMA and comply with FCC 15.203.

## 2.2 OPERATIONAL DESCRIPTION

The EUT is Mini PCI interface and powered by PC System. This EUT has three type antenna and non-simultaneously connect in PCB. The final test is chose 5dBi antenna and 2.5dBi antenna. The other instruction, please look at user manual.

This is a digital transmission system (DTS) and have five type of modulation DSSS, DBPSK, DQPSK, OFDM, CCK. 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 three antenna. The final test is chose 5dBi antenna and 2.5dBi antenna for final test.

### Antenna List

Antenna Type	Antenna Gain	Manufacturer	Model Number
1/4 Swivel Dipole Antenna	5dBi	FULL RISE ELECTRONIC., LTD.	AN-G1-XDC
1/4 Swivel Dipole Antenna	2dBi	WANSHIH ELECTRONICS., LTD.	WSS002
Swivel Access Point Antenna	2.5dBi	ARISTOTLE ENTERPRISES	RFA-02-TC0A2-RG174-600

Test Mode (Antenna Gain 5dBi)	Mode 1	Mode 2
	802.11b: 11Mbps	802.11g: 54Mbps

Test Mode (Antenna Gain 2.5dBi)	Mode 3	Mode 4
	802.11b: 11Mbps	802.11g: 54Mbps

**2.4 SUMMARY OF TEST PROCEDURE AND TEST RESULTS**

<b>Test Item</b>	<b>Applied Standard Section</b>	<b>Test Result</b>
Conduction Emission	15.207, ANSI C63.4 Section 7	Pass (refer to section 3.7)
Radistion Emission	15.209, ANSI C63.4 Section 8	Pass (refer to section 4.7)
Peak Power Output	15.247(b), ANSI C63.4 Section 13 & Annex I	Pass (refer to section 5.4)
Band Edge	15.247(c) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 6.6)
Occupied Bandwidth	15.247(a) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 7.4)
Power Density	15.247(d) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 8.4)

## 2.5 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
<b>Modem</b>	<b>M03-028</b>	Manufacturer : ACEEX Model Number : 1414V Serial Number : 0046183 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
<b>Headset &amp; Earphone</b>	<b>E01-062</b>	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
<b>PS2 Keyboard</b>	<b>K01-088</b>	Manufacturer : IBM Model Number : SK-8811 Serial Number : 01979618 BSMI ID : 3902B330 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.8 m
<b>Cassette Recorder</b>	<b>R02-025</b>	Manufacturer : PANASONIC Model Number : RQ-L11LT Serial Number : N/A BSMI ID : R31017 FCC ID : N/A Power Cord : N/A (Battery 1.5V*2)
<b>PS2 Mouse</b>	<b>M02-304</b>	Manufacturer : IBM Model Number : MU29J Serial Number : 23021308 BSMI ID : 3902A581 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m
<b>External USB 2.0 Hard Disk</b>	<b>U02-021</b>	Manufacturer : TERASYS Model Number : F12-UF Serial Number : A0100215-34P0011 BSMI ID : 4912A002 Data Cable : Shielded, detachable, 1.5m AC Power Adaptor : YHI M/N:YS-1015-U12A BSMI ID:4872A185 Input:AC IN:100V 50/60Hz 35VA Output: DC +12V ,1.25A




Device	No.	Configuration
External USB 2.0 Hard Disk	U02-029	Manufacturer : TERASYS Model Number : F12-UF Serial Number : A0100215-39H001 BSMI ID : 4912A002 Data Cable : Shielded, detachable, 1.5m AC Power Adaptor : YHI M/N:YS-1015-U12A BSMI ID:4872A185 Input:AC IN:100V 50/60Hz 35VA Output: DC +12V ,1.25A
External USB 2.0 Hard Disk	U02-051	Manufacturer : TERASYS Model Number : F12-UF Serial Number : A0100215-34P0030 BSMI ID : 4912A002 Data Cable : Shielded, detachable, 1.5m AC Power Adaptor : YHI M/N:YS-1015-U12A BSMI ID:4872A185 Input:AC IN:100V 50/60Hz 35VA Output: DC +12V ,1.25A
External USB 2.0 Hard Disk	U02-039	Manufacturer : TERASYS Model Number : F12-UF Serial Number : A0100215-34P0030 BSMI ID : 4912A002 Data Cable : Shielded, detachable, 1.5m AC Power Adaptor : YHI M/N:YS-1015-U12A BSMI ID:4872A185 Input:AC IN:100V 50/60Hz 35VA Output: DC +12V ,1.25A
Printer	P01-020	Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2645S40295 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable Power Cord : Non-Shielded, Detachable, 1.8m
Desktop PC	----	Manufacturer : IBM Model Number : T634205
LCD Monitor	----	Manufacturer : HP Model Number : f1723 D-SUB Cable : 15PIN, 1.8m
Modem	M03-029	Manufacturer : ACEEX Model Number : 1414V Serial Number : 0046184 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>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

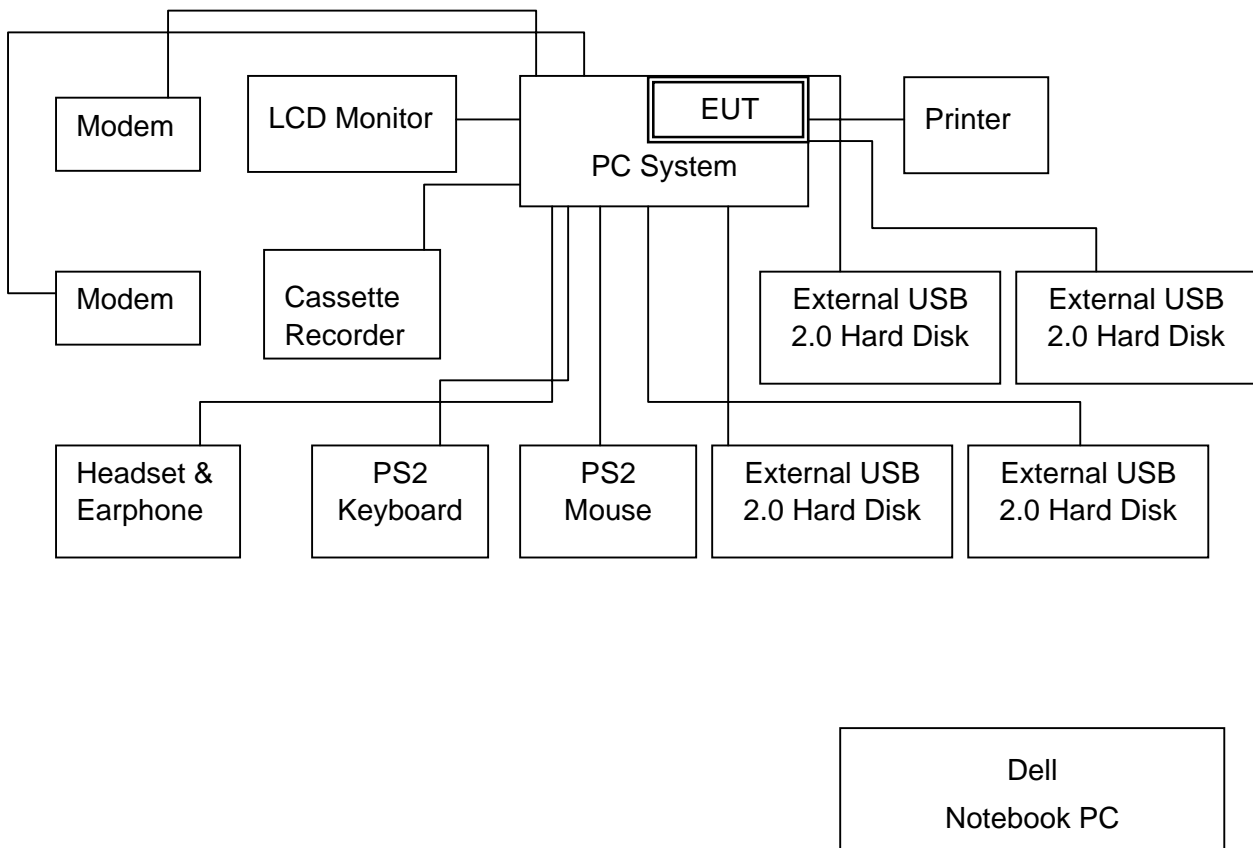
## 2.6 TEST FACILITY

Ambient conditions in the laboratory:

ITEMS	REQIORED(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. 30,2006 For CISPR 22, FCC Method and AS/NZS CISPR 22 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.	

## 2.7 TEST SETUP

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



## 2.8 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 2.7.
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

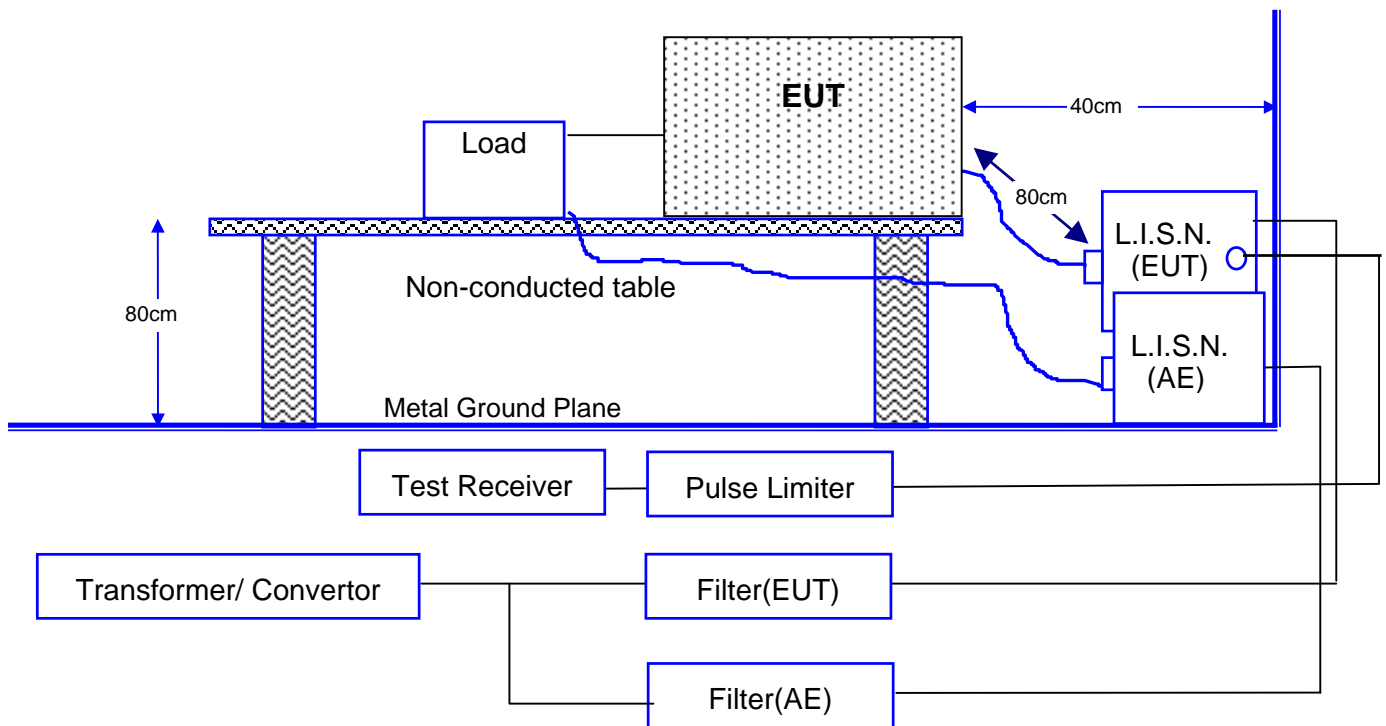
#### 3.1 TEST EQUIPMENTS

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

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	R & S	ESCS30	825022/003	05/26/05
2	L.I.S.N.	KYORITSU	KNW-407	8-1345-10	11/09/04
3	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	357.8810.52	08/05/05
4	RF CABLE	GesTek	N/A	GTK-E-A154-01	12/01/04
5	50 Ohm Terminator	GesTek	N/A	GTK-E-A130-01	10/07/05
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(μV)	
	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 2.7.

### 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 50Ω.

### 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	October 19, 2005	Temperature	25
EUT	Wireless LAN 11g PCI adapter	Humidity	55 %
Test Mode	5dBi Antenna	Display Pattern	H Pattern

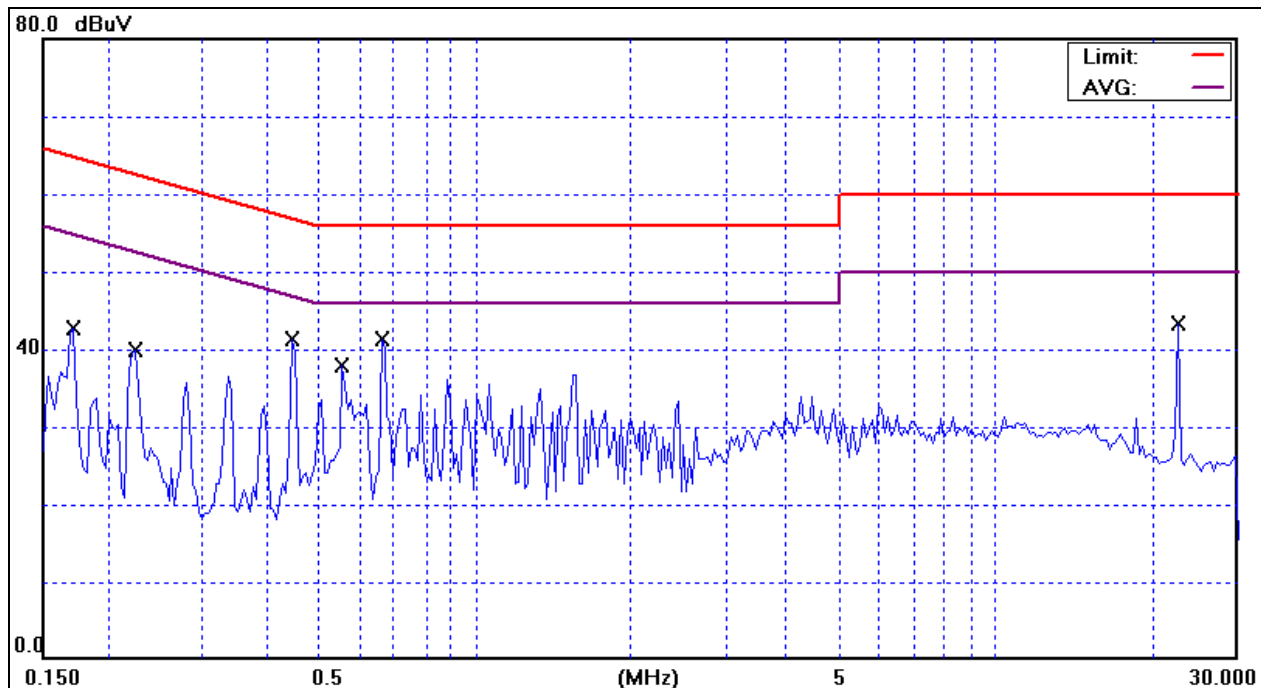
Line

No.	Frequency MHz	Reading Level dB $\mu$ V	Factor dB	Measurement dB $\mu$ V	Limit dB $\mu$ V	Over Limit dB	Detector
1	0.1692	27.95	9.94	37.89	65	-27.11	QP
2	0.1692	26.84	9.94	36.78	55	-18.22	AVG
3	0.2238	28.99	9.96	38.95	62.68	-23.73	QP
4	0.2238	27.93	9.96	37.89	52.68	-14.79	AVG
5	0.4427	27.71	10.04	37.75	57.01	-19.26	QP
6	0.4427	27.3	10.04	37.34	47.01	-9.67	AVG
7	0.5603	21.58	10.07	31.65	56	-24.35	QP
8	0.5603	20.49	10.07	30.56	46	-15.44	AVG
9	0.6697	30.12	10.08	40.2	56	-15.8	QP
10	0.6697	29.69	10.08	39.77	46	-6.23	AVG
11	22.5688	32.4	10.9	43.3	60	-16.7	QP
12	22.5688	32.47	10.9	43.37	50	-6.63	AVG

Remarks :

- 1 All readings are Quasi-peak and Average values.
- 2 " " means that this data is the worse case emission level.

Line



Date of Test	October 19, 2005	Temperature	25
EUT	Wireless LAN 11g PCI adapter	Humidity	55 %
Test Mode	5dBi Antenna	Display Pattern	H Pattern

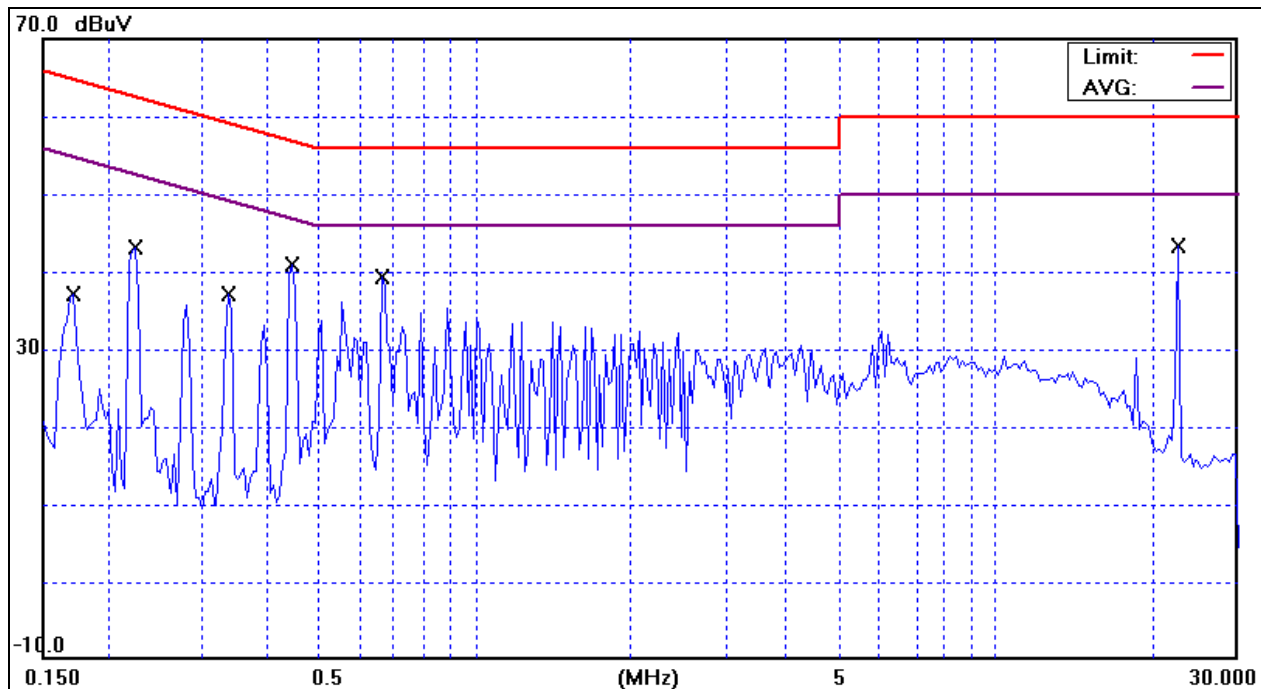
Neutral

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV	Limit dBμV	Over Limit dB	Detector
1	0.1681	26.8	9.94	36.74	65.05	-28.31	QP
2	0.1681	25.33	9.94	35.27	55.05	-19.78	AVG
3	0.2219	32.54	9.96	42.5	62.75	-20.25	QP
4	0.2219	32.17	9.96	42.13	52.75	-10.62	AVG
5	0.3352	24.73	10	34.73	59.32	-24.59	QP
6	0.3352	24.24	10	34.24	49.32	-15.08	AVG
7	0.4449	30.62	10.04	40.66	56.97	-16.31	QP
8	0.4449	30.49	10.04	40.53	46.97	-6.44	AVG
9	0.6674	29.42	10.08	39.5	56	-16.5	QP
10	0.6674	28.25	10.08	38.33	46	-7.67	AVG
11	22.5681	32.61	10.9	43.51	60	-16.49	QP
12	22.5681	32.68	10.9	43.58	50	-6.42	AVG

Remarks :

- 1 All readings are Quasi-peak and Average values.
- 2 " " means that this data is the worse case emission level.

Neutral





Date of Test	October 19, 2005	Temperature	25
EUT	Wireless LAN 11g PCI adapter	Humidity	55 %
Test Mode	2.5dBi Antenna	Display Pattern	H Pattern

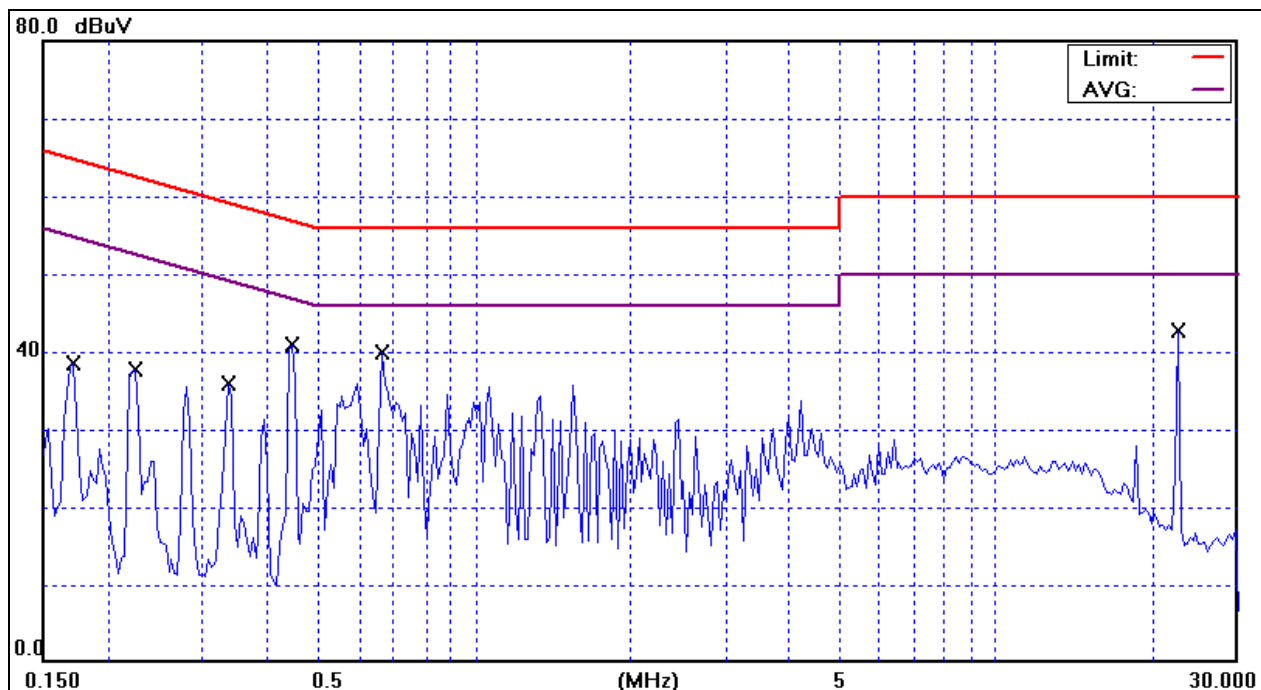
Line

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV	Limit dBμV	Over Limit dB	Detector
1	0.1686	27.75	9.94	37.69	65.03	-27.34	QP
2	0.1686	26.24	9.94	36.18	55.03	-18.85	AVG
3	0.222	28.32	9.96	38.28	62.74	-24.46	QP
4	0.222	27.56	9.96	37.52	52.74	-15.22	AVG
5	0.3393	26.14	10	36.14	59.22	-23.08	QP
6	0.3393	26.03	10	36.03	49.22	-13.19	AVG
7	0.4451	30.34	10.04	40.38	56.97	-16.59	QP
8	0.4451	30.32	10.04	40.36	46.97	-6.61	AVG
9	0.6681	30.71	10.08	40.79	56	-15.21	QP
10	0.6681	29.22	10.08	39.3	46	-6.7	AVG
11	22.5677	31.69	10.9	42.59	60	-17.41	QP
12	22.5677	31.44	10.9	42.34	50	-7.66	AVG

Remarks :

- 1 All readings are Quasi-peak and Average values.
- 2 " " means that this data is the worse case emission level.

Line



<b>Date of Test</b>	October 19, 2005	<b>Temperature</b>	25
<b>EUT</b>	Wireless LAN 11g PCI adapter	<b>Humidity</b>	55 %
<b>Test Mode</b>	2.5dBi Antenna	<b>Display Pattern</b>	H Pattern

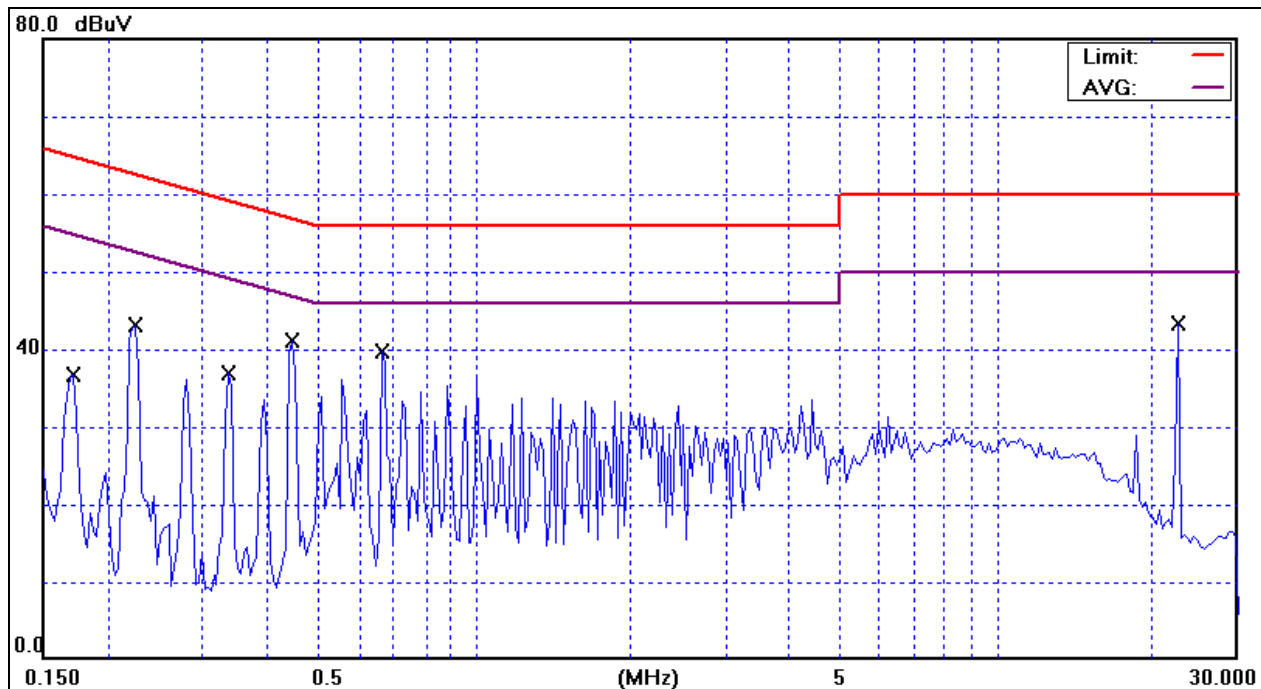
**Neutral**

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV	Limit dBµV	Over Limit dB	Detector
1	0.1692	27.16	9.94	37.1	65	-27.9	QP
2	0.1692	25.85	9.94	35.79	55	-19.21	AVG
3	0.2221	32.51	9.96	42.47	62.74	-20.27	QP
4	0.2221	32.32	9.96	42.28	52.74	-10.46	AVG
5	0.3371	26.38	10	36.38	59.27	-22.89	QP
6	0.3371	26.37	10	36.37	49.27	-12.9	AVG
7	0.4451	30.58	10.04	40.62	56.97	-16.35	QP
8	0.4451	30.58	10.04	40.62	46.97	-6.35	AVG
9	0.6682	30.06	10.08	40.14	56	-15.86	QP
10	0.6682	29.37	10.08	39.45	46	-6.55	AVG
11	22.5691	32.89	10.9	43.79	60	-16.21	QP
12	22.5691	32.69	10.9	43.59	50	-6.41	AVG

**Remarks :**

- 1 All readings are Quasi-peak and Average values.
- 2 " " means that this data is the worse case emission level.

**Neutral**



## 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

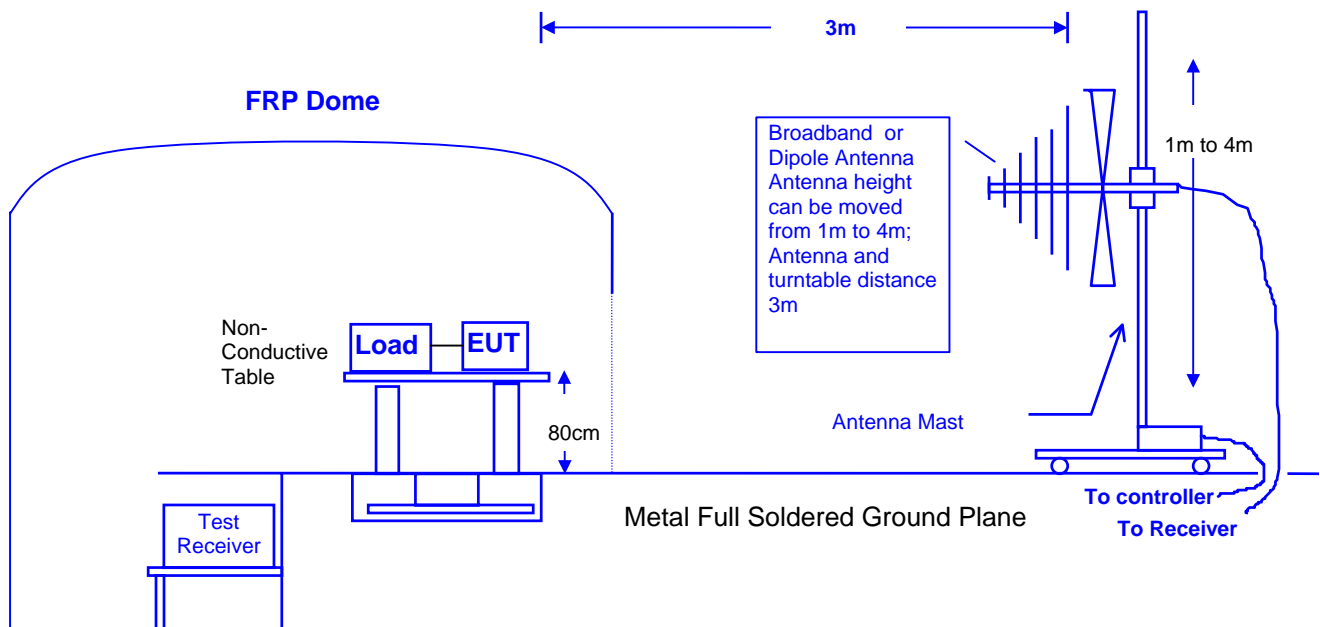
Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	R & S	ESCS30	825022/003	05/26/05
2	Spectrum Analyzer	HP	8595E	3911A04441	12/16/04
3	Spectrum Analyzer	HP	E4407B	39240339	07/26/05
4	Power Meter	Rohde & Schwarz	NRVS	100666	04/15/05
5	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	8360191058	04/15/05
6	Pre-Amplifier	HP	8449B	3008A01264	06/13/05
7	BILOG ANTENNA	SCHAFFNER	CBL6112B	2620	11/30/04
8	Horn Antenna	Schwarzbeck	BBHA 9120	D243	12/22/04
9	RF Cable	GesTek	N/A	GTK-E-A151-01	02/14/05
10	Open Site	GesTek	N/A	B2	11/23/04
11	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 representative 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 15.209

Frequency	Distance	Field Strength	
		$\mu\text{V}/\text{M}$	$\text{dB}\mu\text{V}/\text{M}$
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 2.7.

### 4.6 RADIATED EMISSION DATA

The measurement range of radiated emissions from **30 MHz to 10 Harmonics** 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.

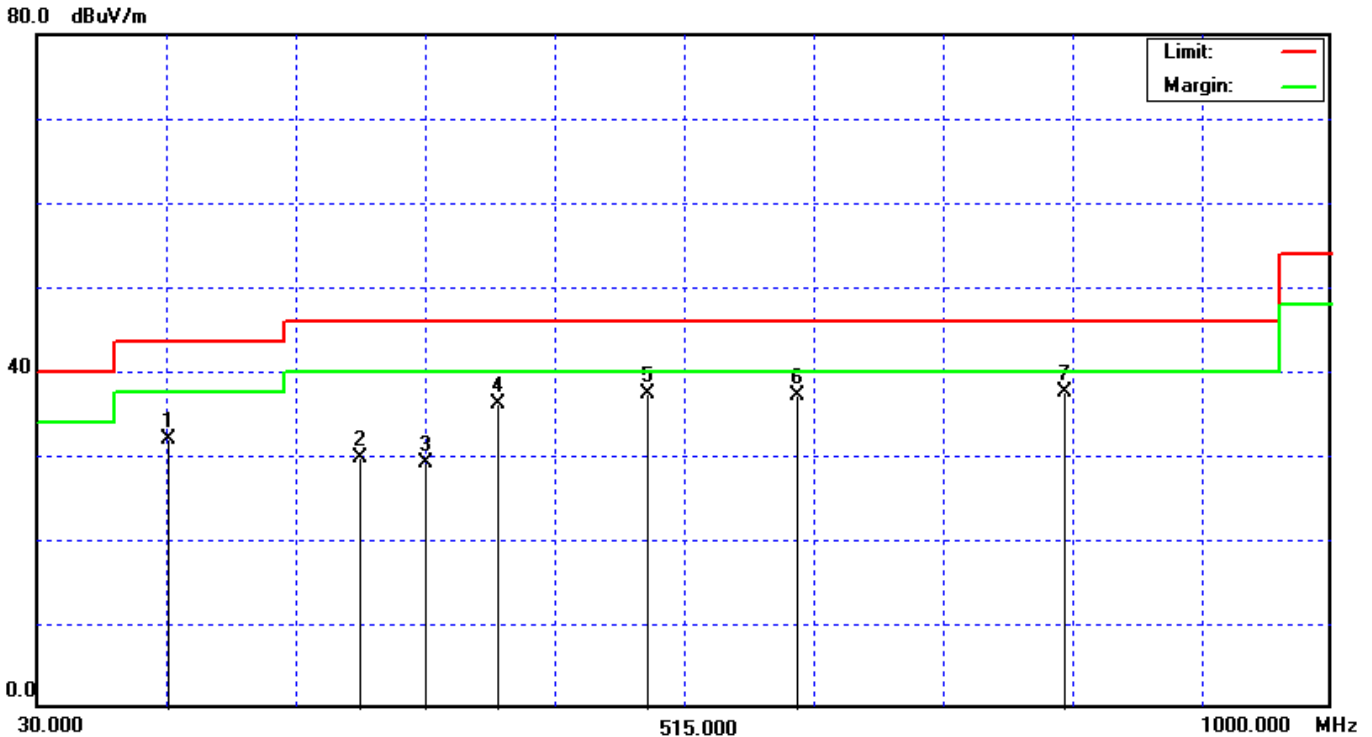
### 4.7 RADIATED EMISSIONS MEASUREMENT RESULTS

Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 1 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	128.84	45.66	-13.82	31.84	43.5	-11.66	QP
2	270.854	40.33	-10.64	29.69	46	-16.31	QP
3	320.002	38.03	-8.92	29.11	46	-16.89	QP
4	375.02	43.69	-7.56	36.13	46	-9.87	QP
5	485.94	42.51	-5.24	37.27	46	-8.73	QP
6	600.03	39.85	-2.73	37.12	46	-8.88	QP
7	800.022	36.53	0.96	37.49	46	-8.51	QP

**Remarks:**

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



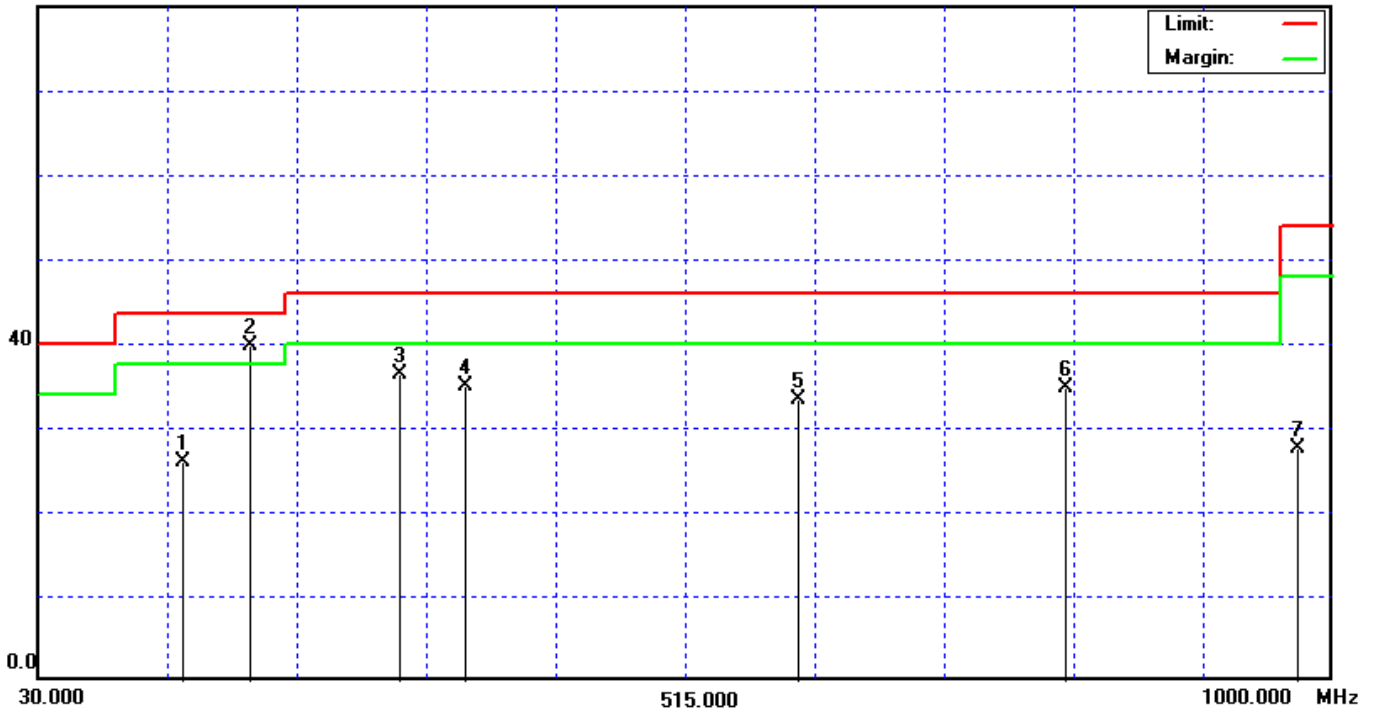
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 1 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	137.516	39.76	-13.86	25.9	43.5	-17.6	QP
2	187.244	55.14	-15.53	39.61	43.5	-3.89	QP
3	300.016	45.93	-9.71	36.22	46	-9.78	QP
4	350.02	43.07	-8.2	34.87	46	-11.13	QP
5	600.038	35.99	-2.73	33.26	46	-12.74	QP
6	799.998	33.71	0.96	34.67	46	-11.33	QP
7	973.46	22.88	4.63	27.51	54	-26.49	QP

Remarks:

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

80.0 dBuV/m



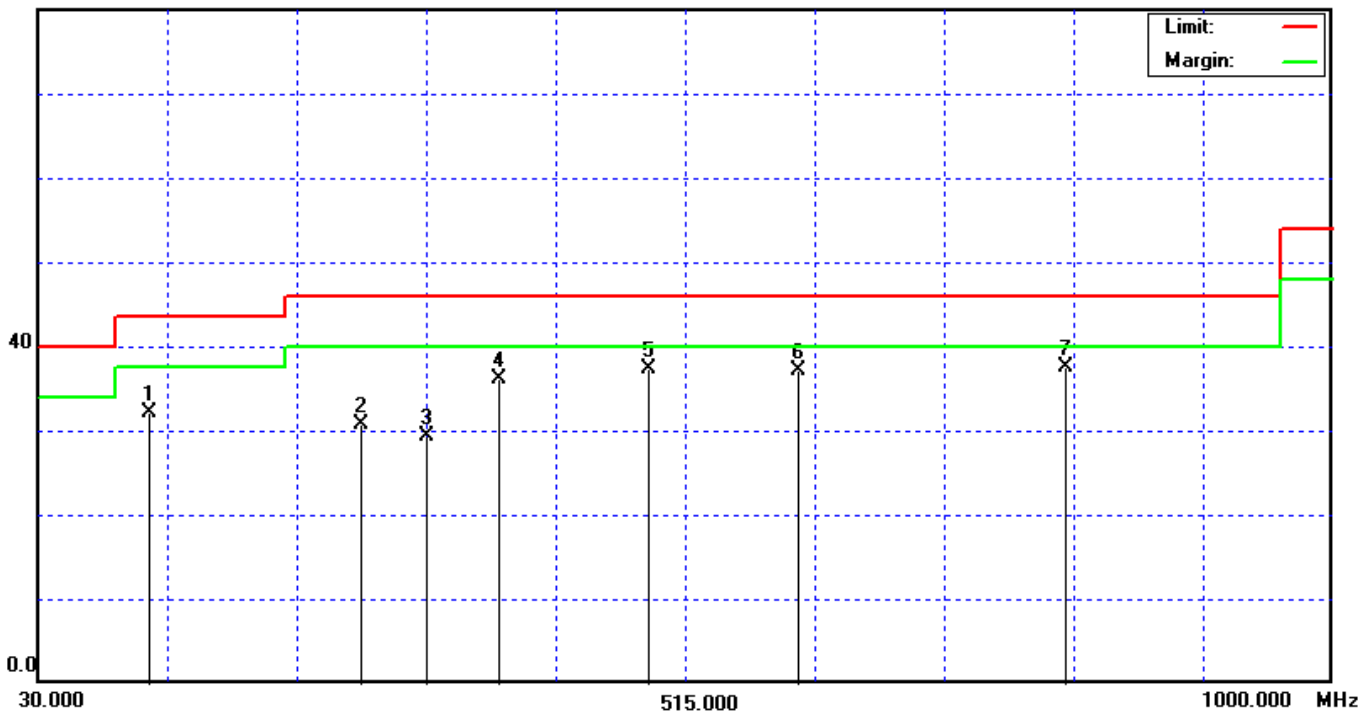
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 1 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	112.848	46.66	-14.55	32.11	43.5	-11.39	QP
2	270.855	41.33	-10.64	30.69	46	-15.31	QP
3	320.025	38.23	-8.92	29.31	46	-16.69	QP
4	375.022	43.72	-7.56	36.16	46	-9.84	QP
5	485.943	42.5	-5.24	37.26	46	-8.74	QP
6	600.033	39.88	-2.73	37.15	46	-8.85	QP
7	800.025	36.5	0.96	37.46	46	-8.54	QP

Remarks:

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

80.0 dBuV/m



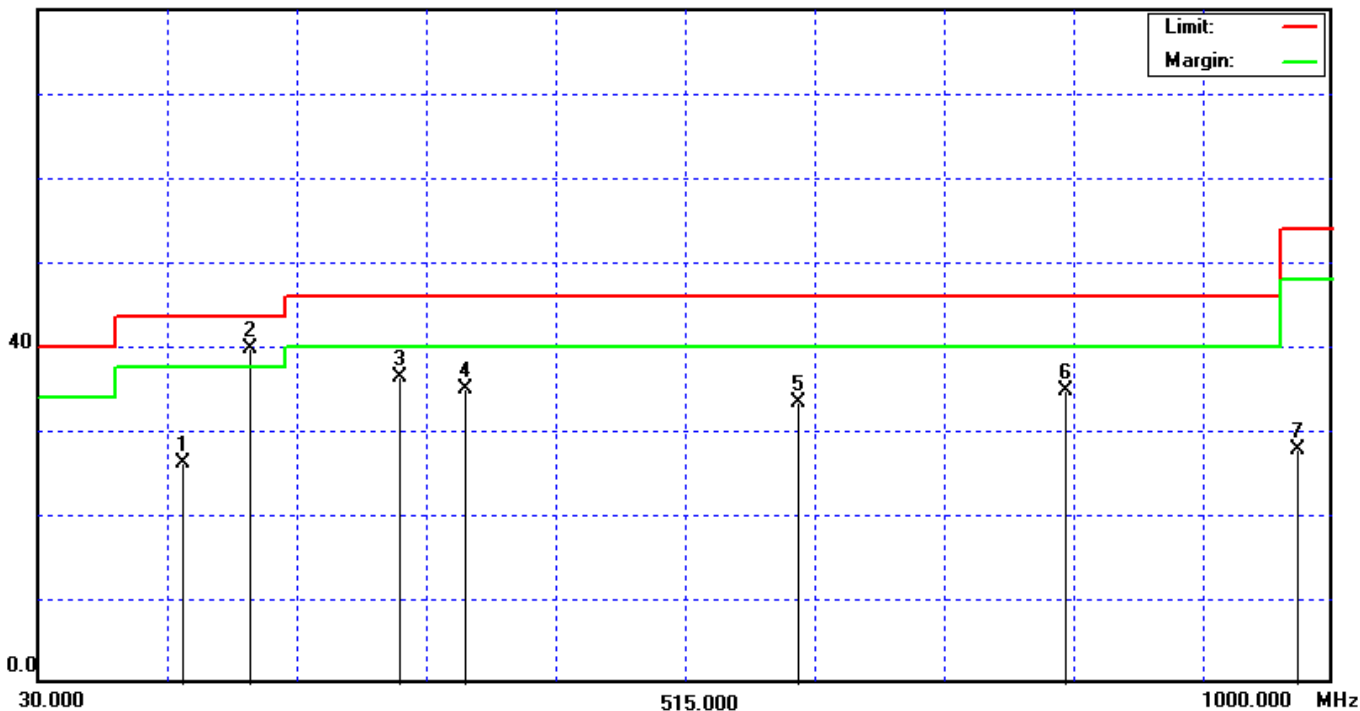
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 1 (Channel 6)	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	137.514	40.02	-13.86	26.16	43.5	-17.34	QP
2	187.245	55.15	-15.53	39.62	43.5	-3.88	QP
3	300.014	46	-9.71	36.29	46	-9.71	QP
4	350.026	43.1	-8.2	34.9	46	-11.1	QP
5	600.04	36	-2.73	33.27	46	-12.73	QP
6	799.999	33.73	0.96	34.69	46	-11.31	QP
7	973.462	23	4.63	27.63	54	-26.37	QP

Remarks:

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

80.0 dBuV/m





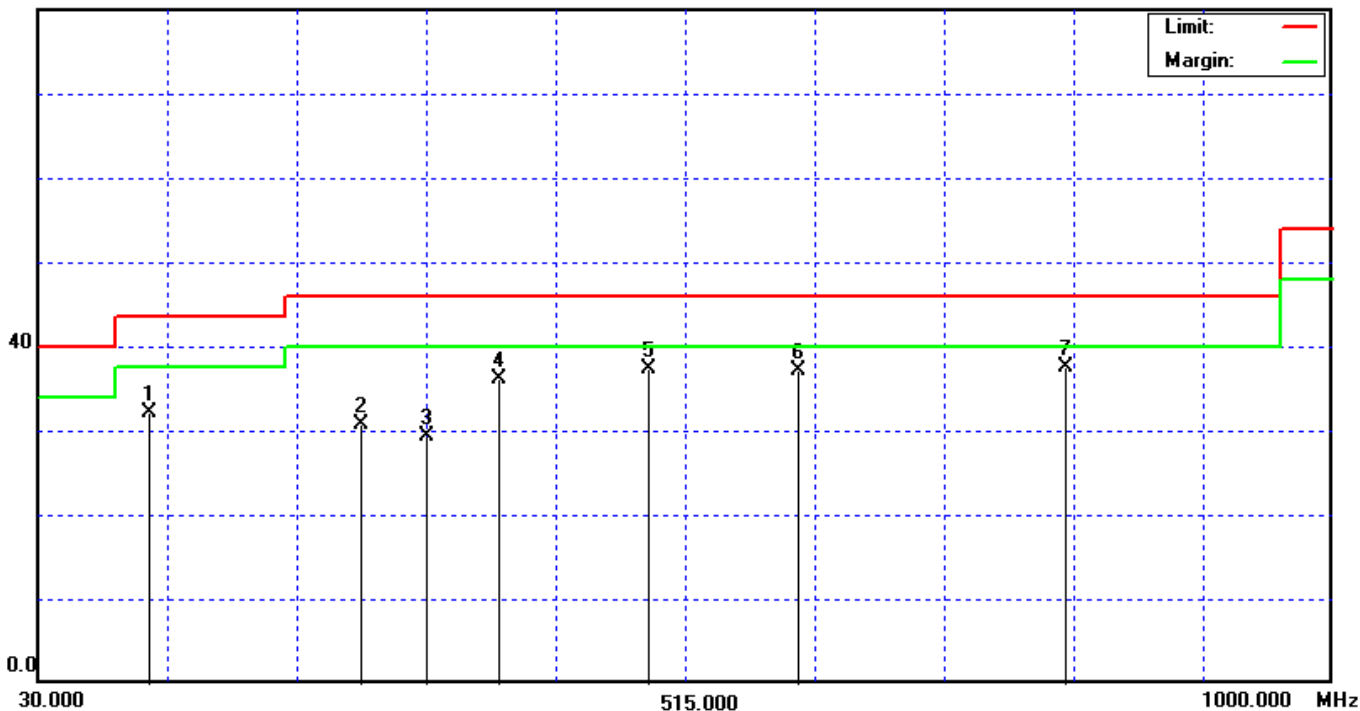
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 1 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV/m	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	112.845	46.63	-14.55	32.08	43.5	-11.42	QP
2	270.853	41.31	-10.64	30.67	46	-15.33	QP
3	320.023	38.2	-8.92	29.28	46	-16.72	QP
4	375.02	43.7	-7.56	36.14	46	-9.86	QP
5	485.94	42.53	-5.24	37.29	46	-8.71	QP
6	600.03	39.9	-2.73	37.17	46	-8.83	QP
7	799.98	36.52	0.96	37.48	46	-8.52	QP

Remarks:

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

80.0 dBuV/m



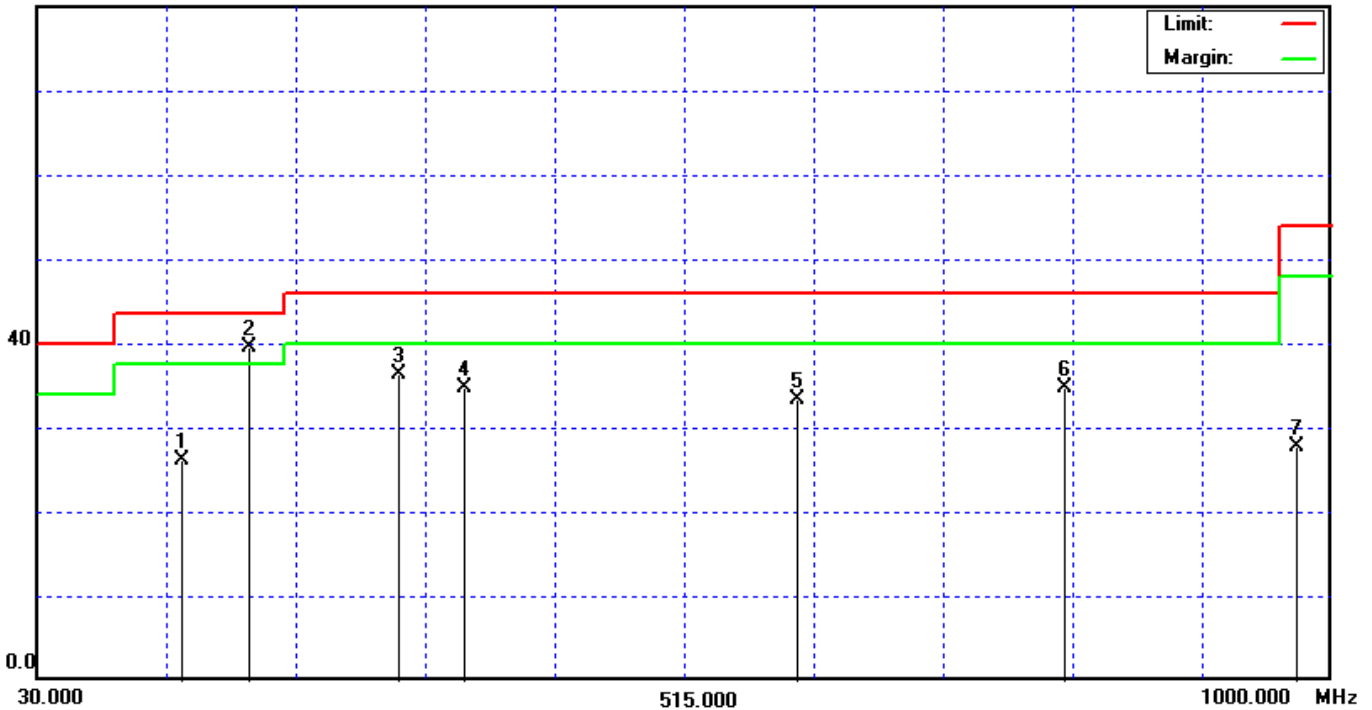
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 1 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	137.512	39.98	-13.86	26.12	43.5	-17.38	QP
2	187.243	55.12	-15.53	39.59	43.5	-3.91	QP
3	300.012	45.98	-9.71	36.27	46	-9.73	QP
4	350.027	43	-8.2	34.8	46	-11.2	QP
5	600.038	35.98	-2.73	33.25	46	-12.75	QP
6	800	33.75	0.96	34.71	46	-11.29	QP
7	973.46	23.03	4.63	27.66	54	-26.34	QP

Remarks:

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

80.0 dBuV/m



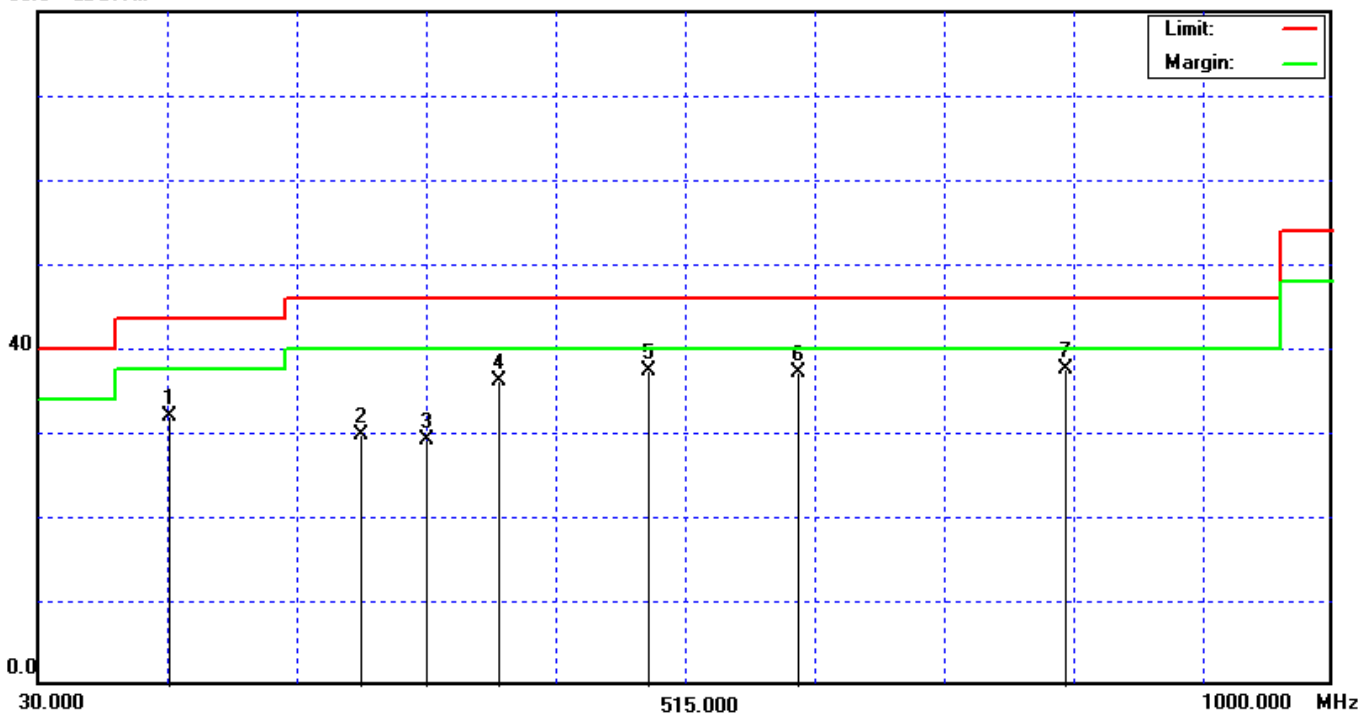
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 2 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	128.839	45.63	-13.82	31.81	43.5	-11.69	QP
2	270.85	40.3	-10.64	29.66	46	-16.34	QP
3	320	38	-8.92	29.08	46	-16.92	QP
4	375	43.7	-7.56	36.14	46	-9.86	QP
5	485.95	42.5	-5.24	37.26	46	-8.74	QP
6	600.029	39.84	-2.73	37.11	46	-8.89	QP
7	800.019	36.5	0.96	37.46	46	-8.54	QP

Remarks:

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

80.0 dBuV/m



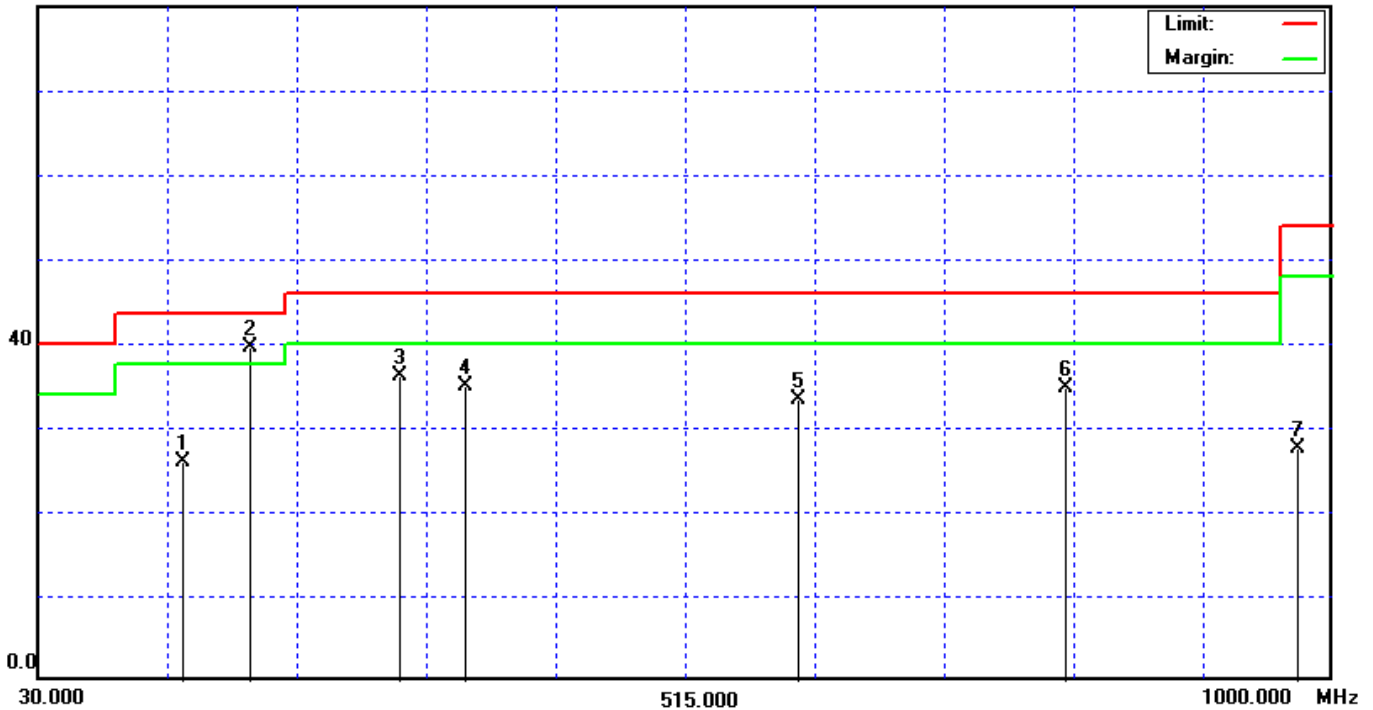
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 2 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	137.515	39.75	-13.86	25.89	43.5	-17.61	QP
2	187.243	55.12	-15.53	39.59	43.5	-3.91	QP
3	300.015	45.9	-9.71	36.19	46	-9.81	QP
4	350.018	43.1	-8.2	34.9	46	-11.1	QP
5	600.04	36	-2.73	33.27	46	-12.73	QP
6	800	33.7	0.96	34.66	46	-11.34	QP
7	973.462	22.9	4.63	27.53	54	-26.47	QP

Remarks:

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

80.0 dBuV/m



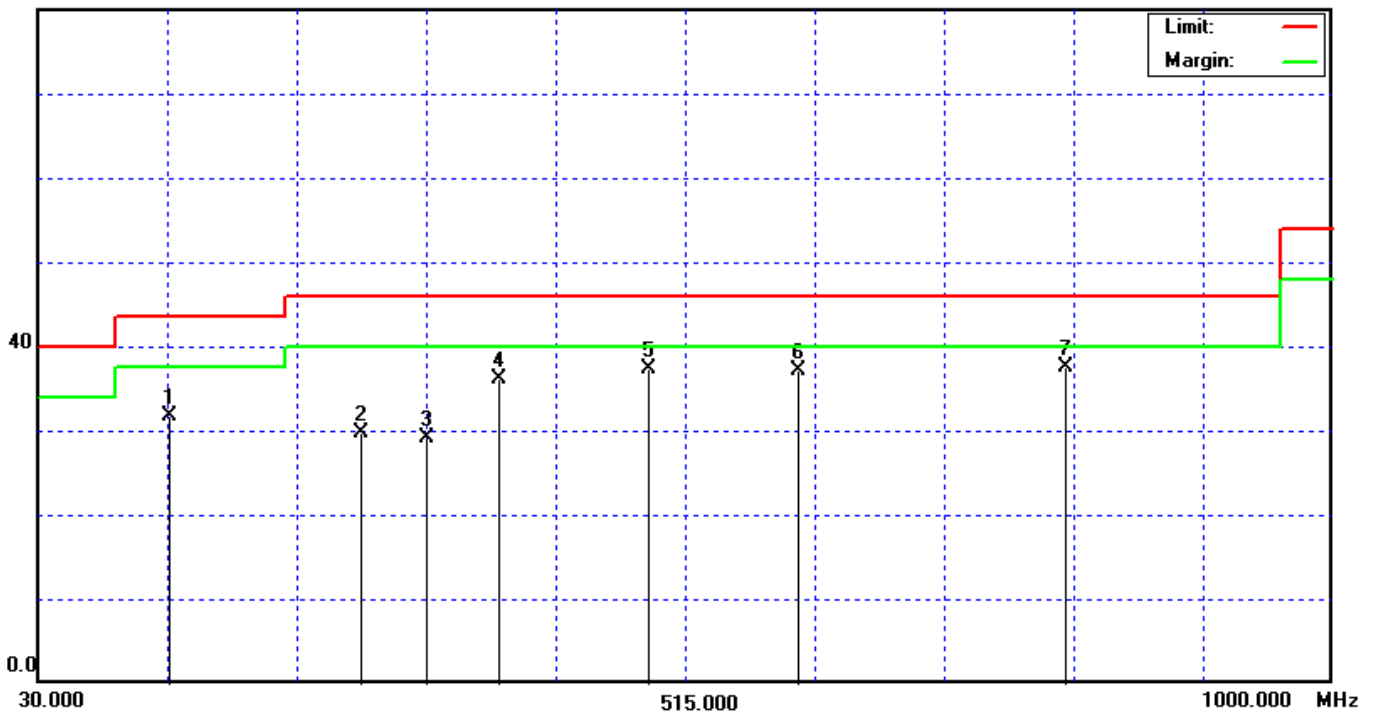
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 2 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	128.84	45.6	-13.82	31.78	43.5	-11.72	QP
2	270.851	40.32	-10.64	29.68	46	-16.32	QP
3	320.02	38.02	-8.92	29.1	46	-16.9	QP
4	375.02	43.69	-7.56	36.13	46	-9.87	QP
5	485.94	42.49	-5.24	37.25	46	-8.75	QP
6	600.03	39.85	-2.73	37.12	46	-8.88	QP
7	800.02	36.49	0.96	37.45	46	-8.55	QP

Remarks:

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

80.0 dBuV/m



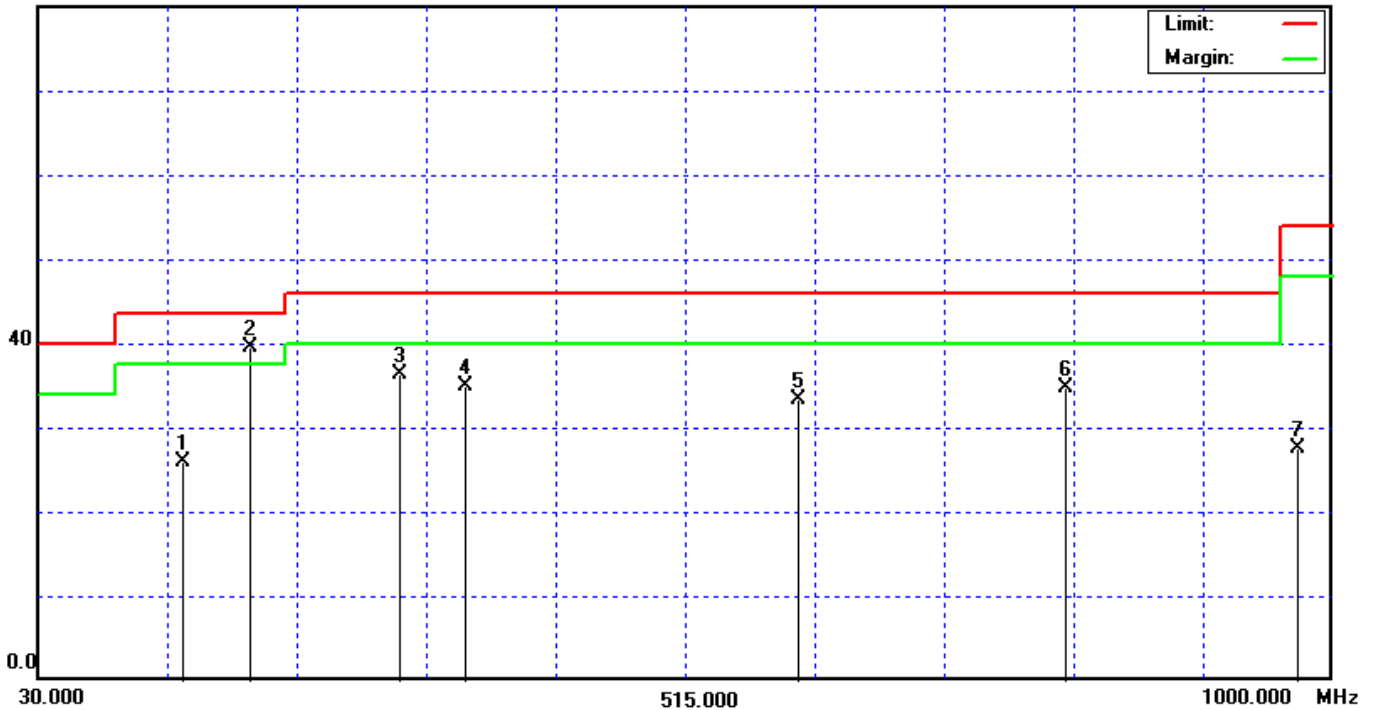
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 2 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	137.512	39.76	-13.86	25.9	43.5	-17.6	QP
2	187.24	55.1	-15.53	39.57	43.5	-3.93	QP
3	300.013	46	-9.71	36.29	46	-9.71	QP
4	350.02	43.12	-8.2	34.92	46	-11.08	QP
5	600.039	35.99	-2.73	33.26	46	-12.74	QP
6	800.02	33.68	0.96	34.64	46	-11.36	QP
7	973.46	22.93	4.63	27.56	54	-26.44	QP

Remarks:

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

80.0 dBuV/m



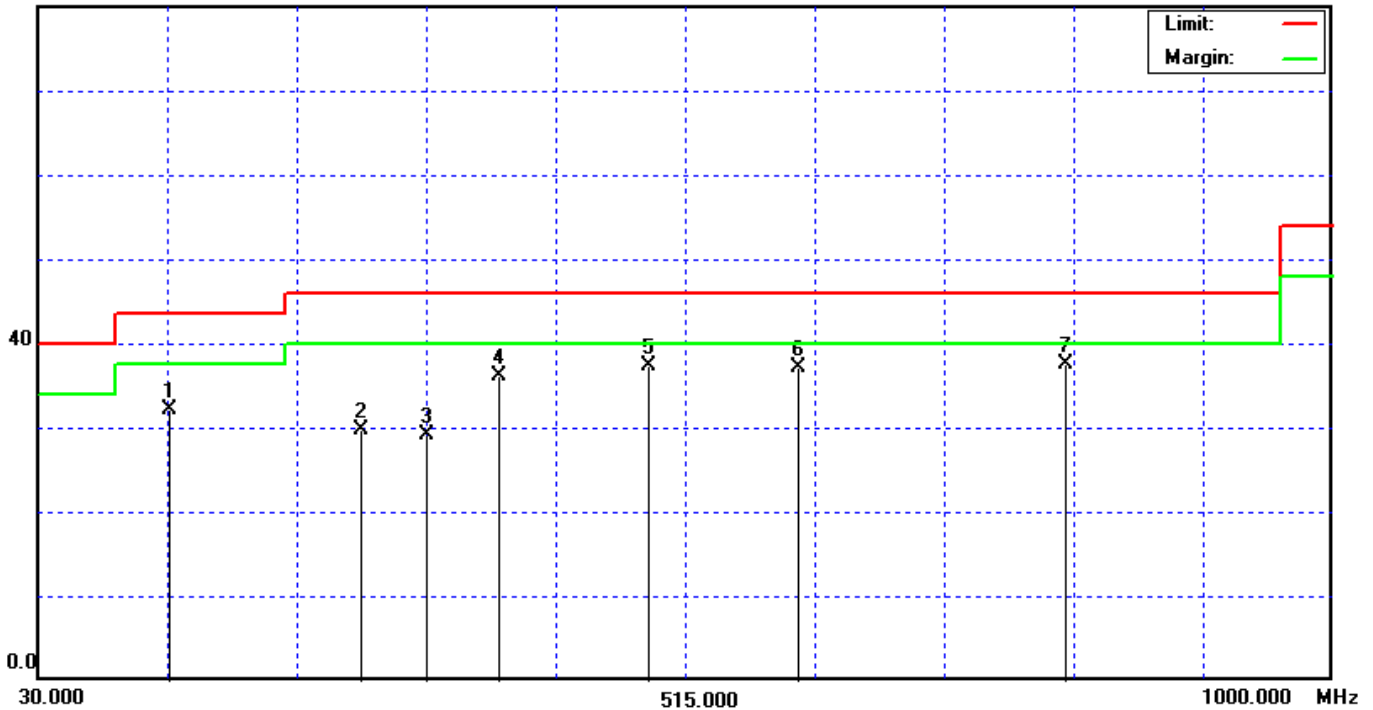
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 2 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV/m	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	128.83	45.99	-13.82	32.17	43.5	-11.33	QP
2	270.85	40.3	-10.64	29.66	46	-16.34	QP
3	320.019	38	-8.92	29.08	46	-16.92	QP
4	375.018	43.7	-7.56	36.14	46	-9.86	QP
5	485.941	42.5	-5.24	37.26	46	-8.74	QP
6	600.029	39.86	-2.73	37.13	46	-8.87	QP
7	800.019	36.5	0.96	37.46	46	-8.54	QP

Remarks:

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

80.0 dBuV/m



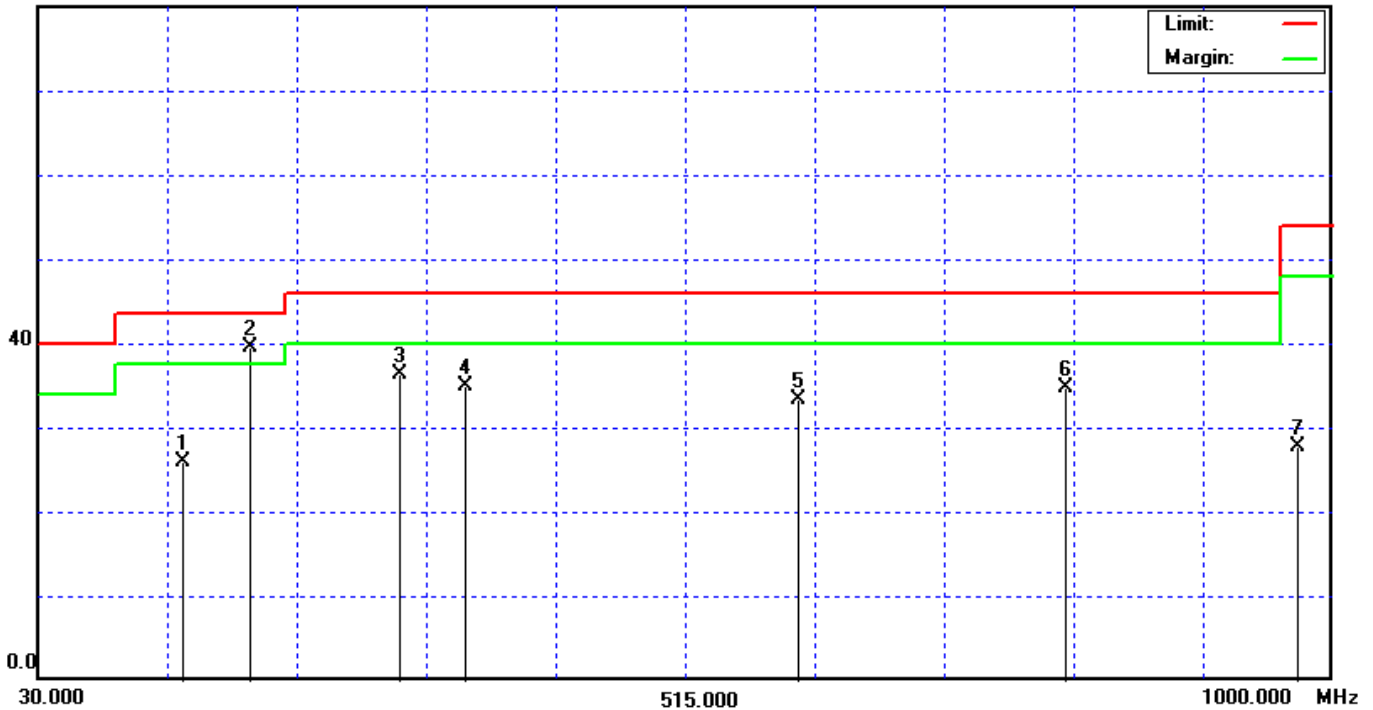
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 2 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	137.51	39.75	-13.86	25.89	43.5	-17.61	QP
2	187.239	54.98	-15.53	39.45	43.5	-4.05	QP
3	300.014	45.98	-9.71	36.27	46	-9.73	QP
4	350.019	43.1	-8.2	34.9	46	-11.1	QP
5	600.04	36	-2.73	33.27	46	-12.73	QP
6	800	33.7	0.96	34.66	46	-11.34	QP
7	973.459	23	4.63	27.63	54	-26.37	QP

Remarks:

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

80.0 dBuV/m





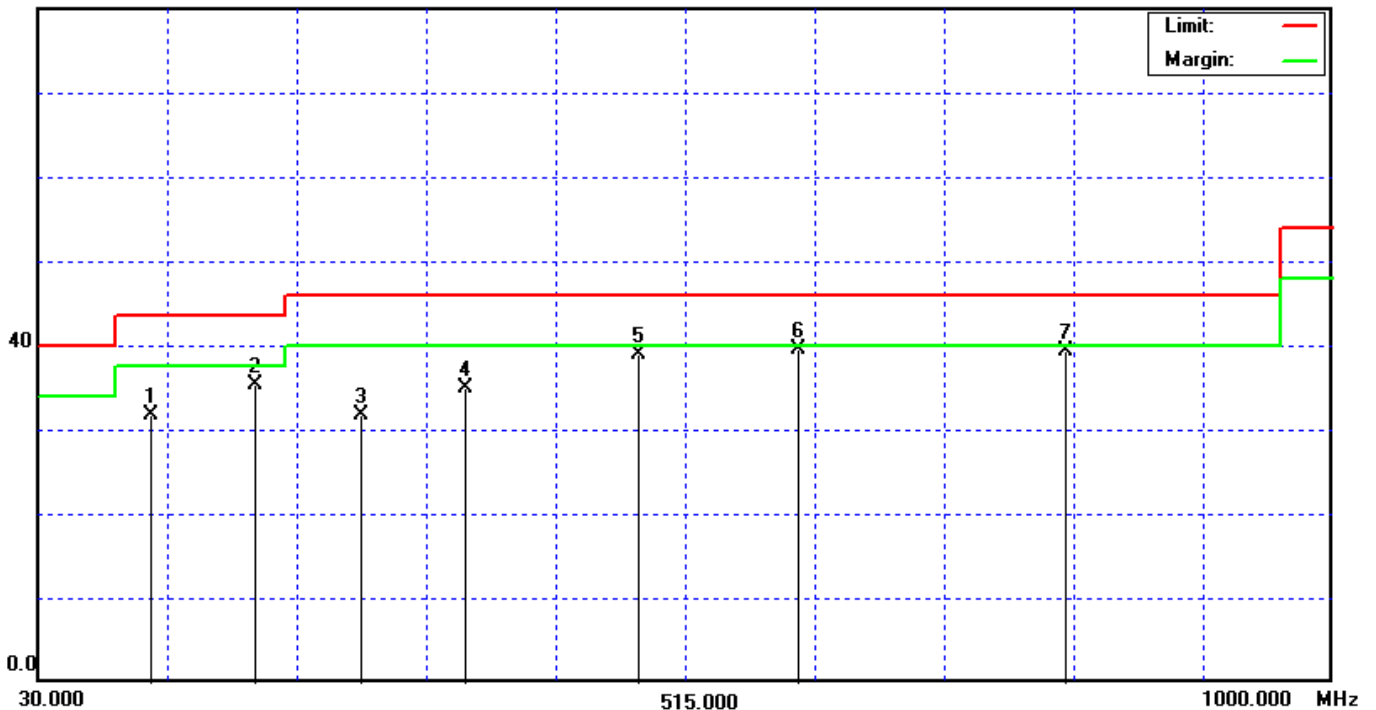
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 3 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.52	46.07	-14.36	31.71	43.5	-11.79	QP
2	191.748	50.62	-15.4	35.22	43.5	-8.28	QP
3	270.84	42.32	-10.64	31.68	46	-14.32	QP
4	350.03	43.16	-8.2	34.96	46	-11.04	QP
5	480.02	44.21	-5.35	38.86	46	-7.14	QP
6	600.04	42.31	-2.73	39.58	46	-6.42	QP
7	800.03	38.42	0.96	39.38	46	-6.62	QP

Remarks:

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

80.0 dBuV/m



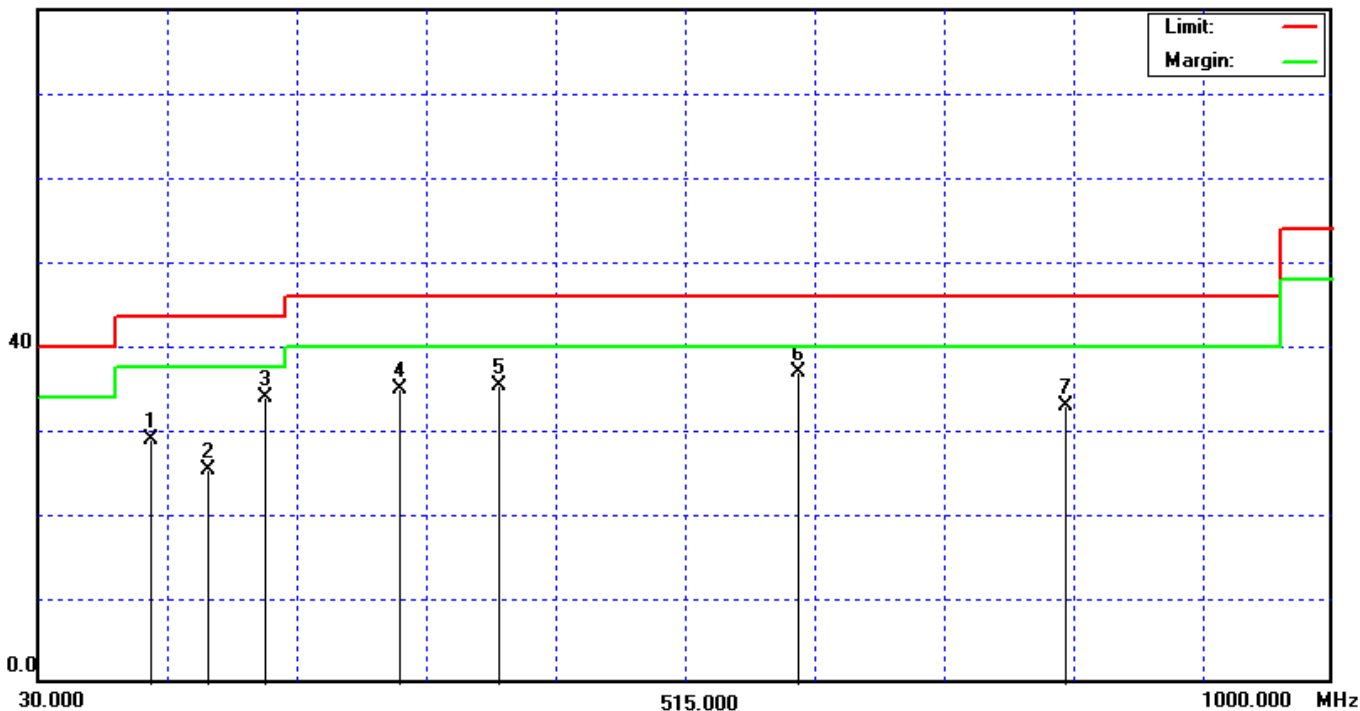
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 3 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.514	43.27	-14.36	28.91	43.5	-14.59	QP
2	157.474	40.15	-14.86	25.29	43.5	-18.21	QP
3	200.014	49.51	-15.52	33.99	43.5	-9.51	QP
4	300.014	44.61	-9.71	34.9	46	-11.1	QP
5	375.022	42.92	-7.56	35.36	46	-10.64	QP
6	600.048	39.63	-2.73	36.9	46	-9.1	QP
7	800.028	31.89	0.96	32.85	46	-13.15	QP

Remarks:

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

80.0 dBuV/m



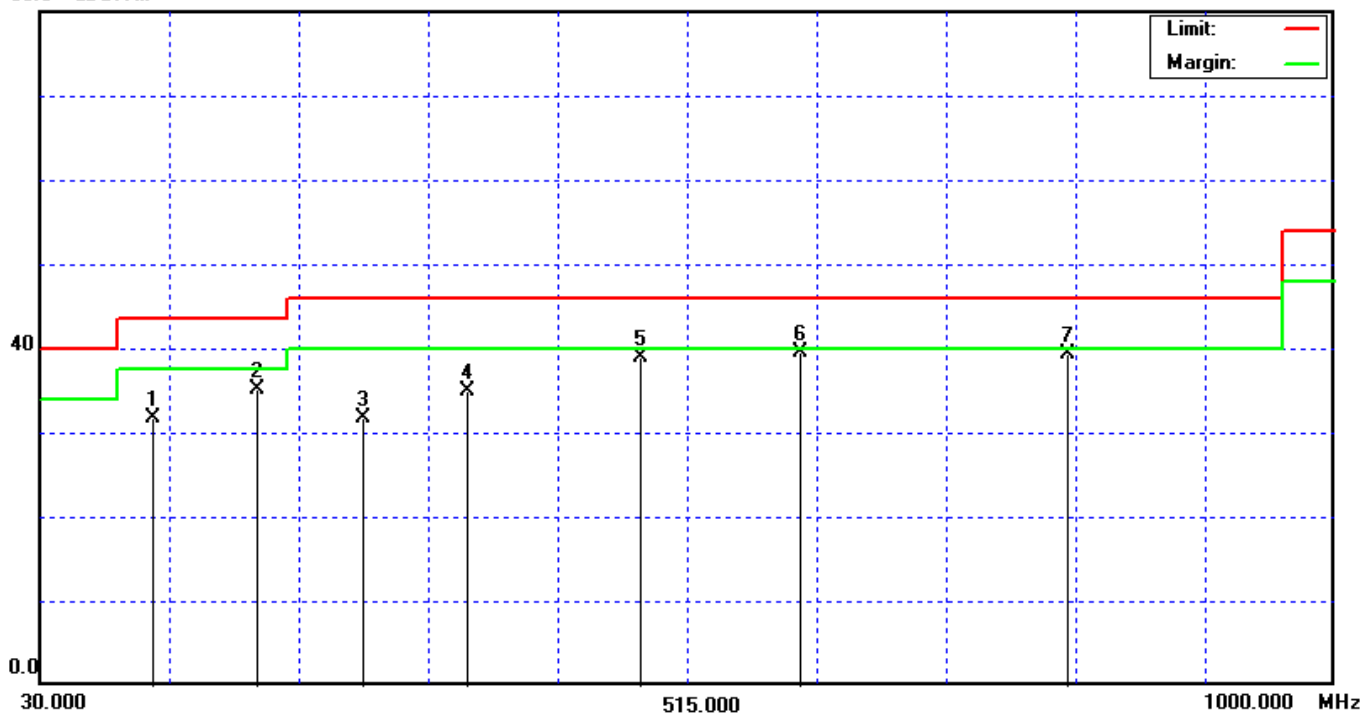
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 3 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.521	46	-14.36	31.64	43.5	-11.86	QP
2	191.75	50.6	-15.4	35.2	43.5	-8.3	QP
3	270.843	42.35	-10.64	31.71	46	-14.29	QP
4	350.033	43.2	-8.2	35	46	-11	QP
5	480.025	44.2	-5.35	38.85	46	-7.15	QP
6	600.042	42.3	-2.73	39.57	46	-6.43	QP
7	800.033	38.4	0.96	39.36	46	-6.64	QP

Remarks:

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

80.0 dBuV/m



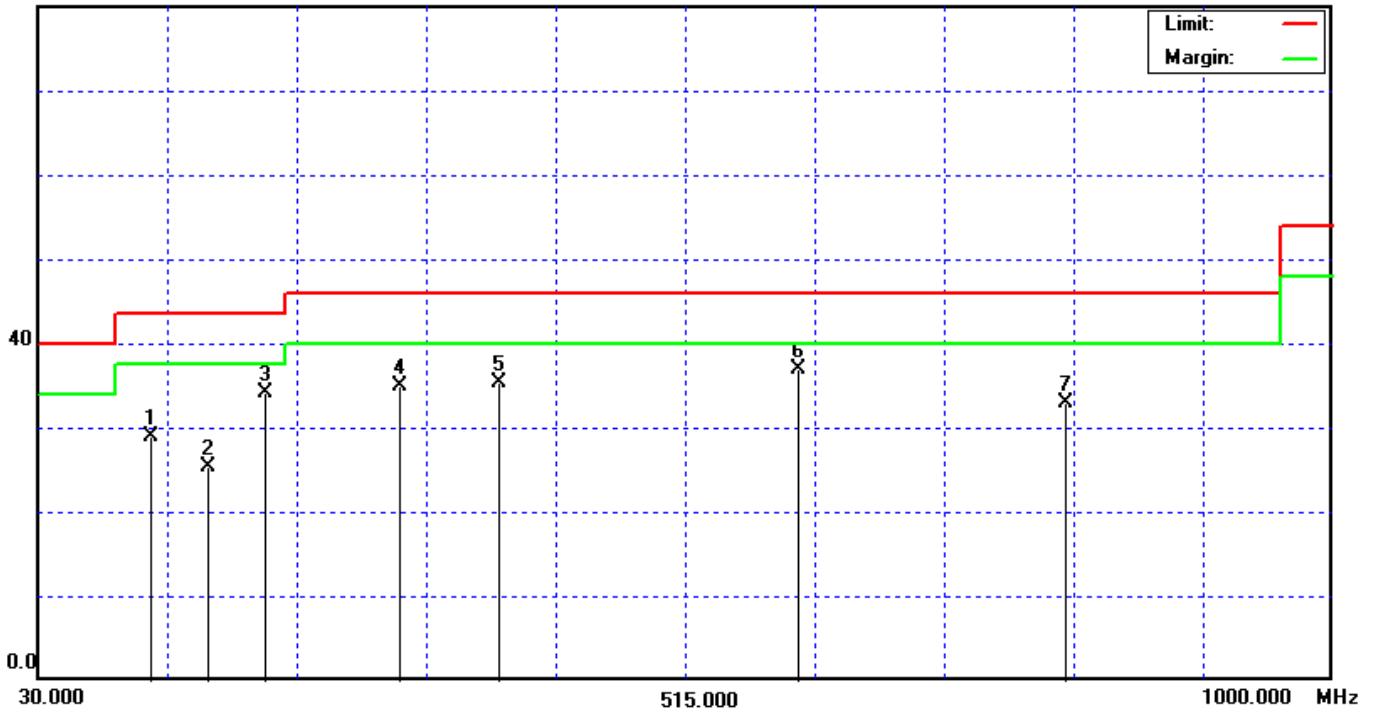
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 3 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.515	43.25	-14.36	28.89	43.5	-14.61	QP
2	157.475	40.17	-14.86	25.31	43.5	-18.19	QP
3	200.015	49.55	-15.52	34.03	43.5	-9.47	QP
4	300.013	44.6	-9.71	34.89	46	-11.11	QP
5	375.025	42.9	-7.56	35.34	46	-10.66	QP
6	600.05	39.65	-2.73	36.92	46	-9.08	QP
7	800.03	31.9	0.96	32.86	46	-13.14	QP

Remarks:

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

80.0 dBuV/m



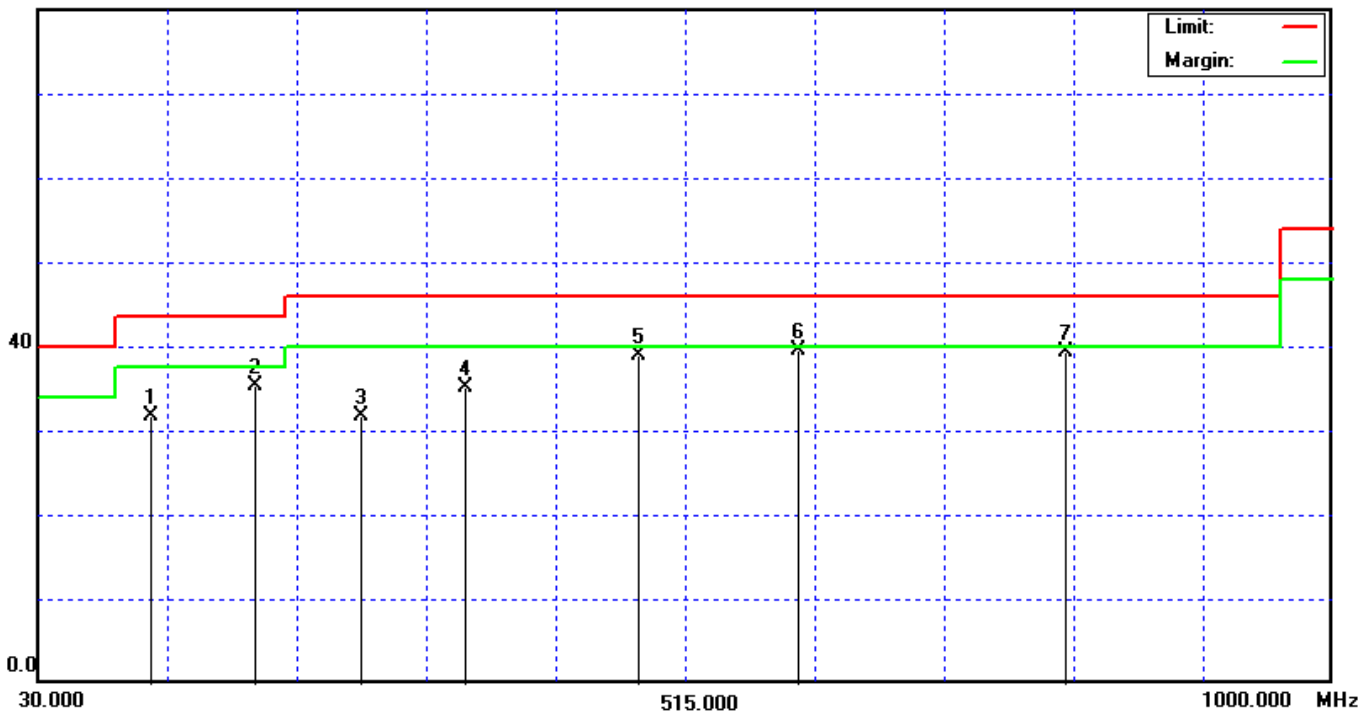
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 3 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV/m	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.522	46.11	-14.36	31.75	43.5	-11.75	QP
2	191.752	50.62	-15.4	35.22	43.5	-8.28	QP
3	270.845	42.33	-10.64	31.69	46	-14.31	QP
4	350.035	43.23	-8.2	35.03	46	-10.97	QP
5	480.024	44.22	-5.35	38.87	46	-7.13	QP
6	600.045	42.32	-2.73	39.59	46	-6.41	QP
7	800.031	38.42	0.96	39.38	46	-6.62	QP

Remarks:

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

80.0 dBuV/m



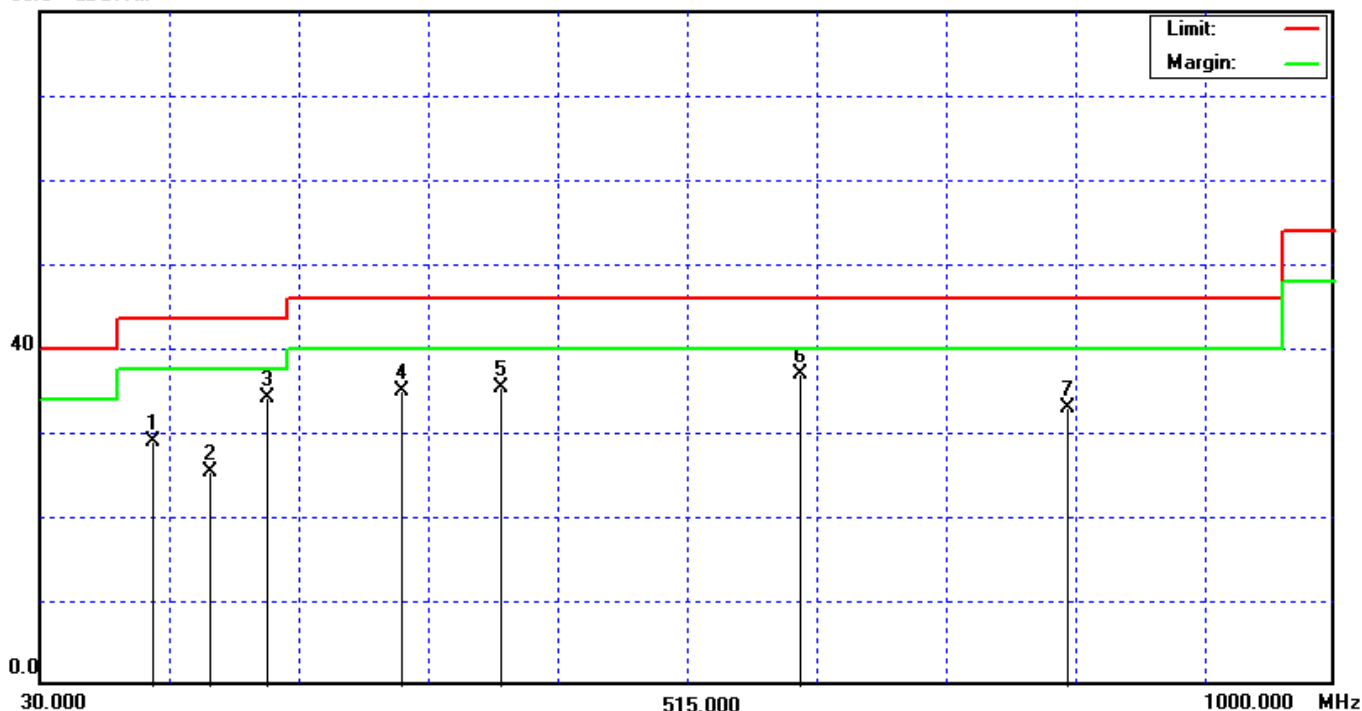
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 3 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.514	43.24	-14.36	28.88	43.5	-14.62	QP
2	157.474	40.15	-14.86	25.29	43.5	-18.21	QP
3	200.014	49.54	-15.52	34.02	43.5	-9.48	QP
4	300.014	44.58	-9.71	34.87	46	-11.13	QP
5	375.024	42.92	-7.56	35.36	46	-10.64	QP
6	600.052	39.63	-2.73	36.9	46	-9.1	QP
7	800.032	31.92	0.96	32.88	46	-13.12	QP

Remarks:

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

80.0 dBuV/m



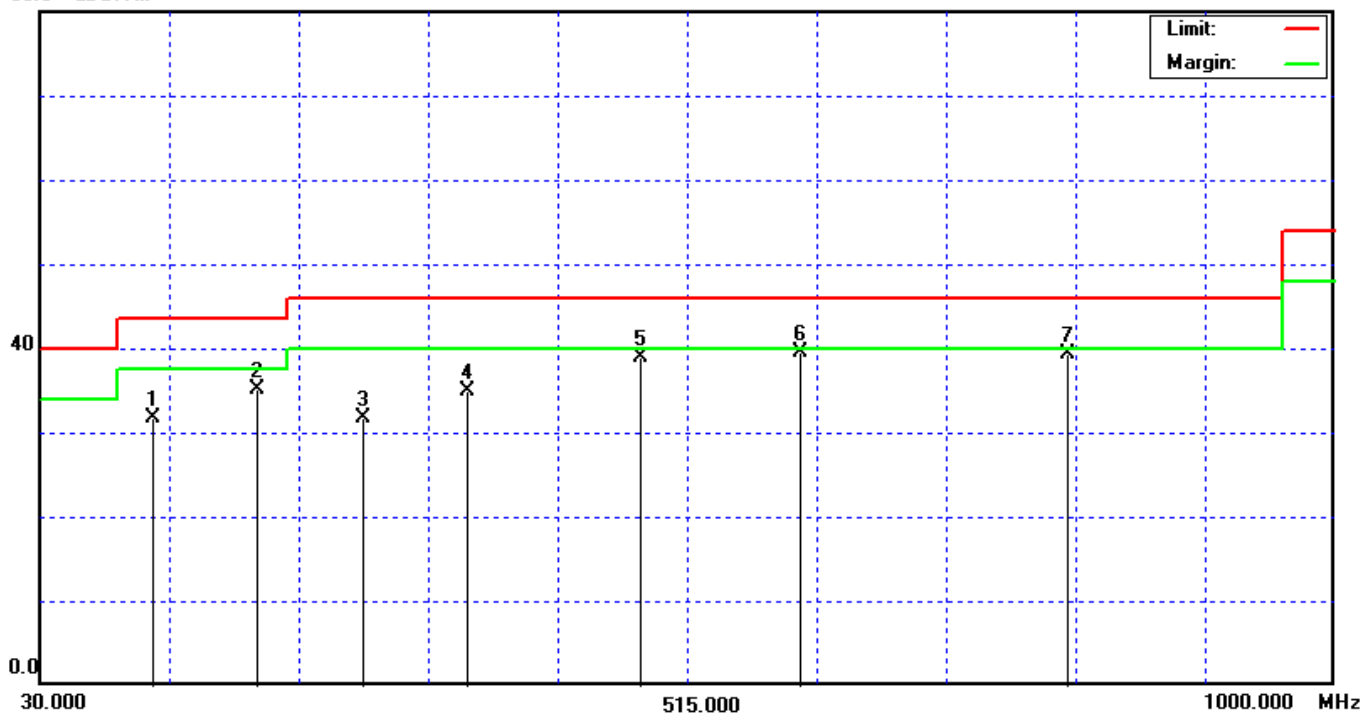
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 4 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.523	46	-14.35	31.65	43.5	-11.85	QP
2	191.75	50.6	-15.4	35.2	43.5	-8.3	QP
3	270.841	42.35	-10.64	31.71	46	-14.29	QP
4	350.032	43.18	-8.2	34.98	46	-11.02	QP
5	480.022	44.2	-5.35	38.85	46	-7.15	QP
6	600.042	42.3	-2.73	39.57	46	-6.43	QP
7	800.033	38.4	0.96	39.36	46	-6.64	QP

Remarks:

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

80.0 dBuV/m



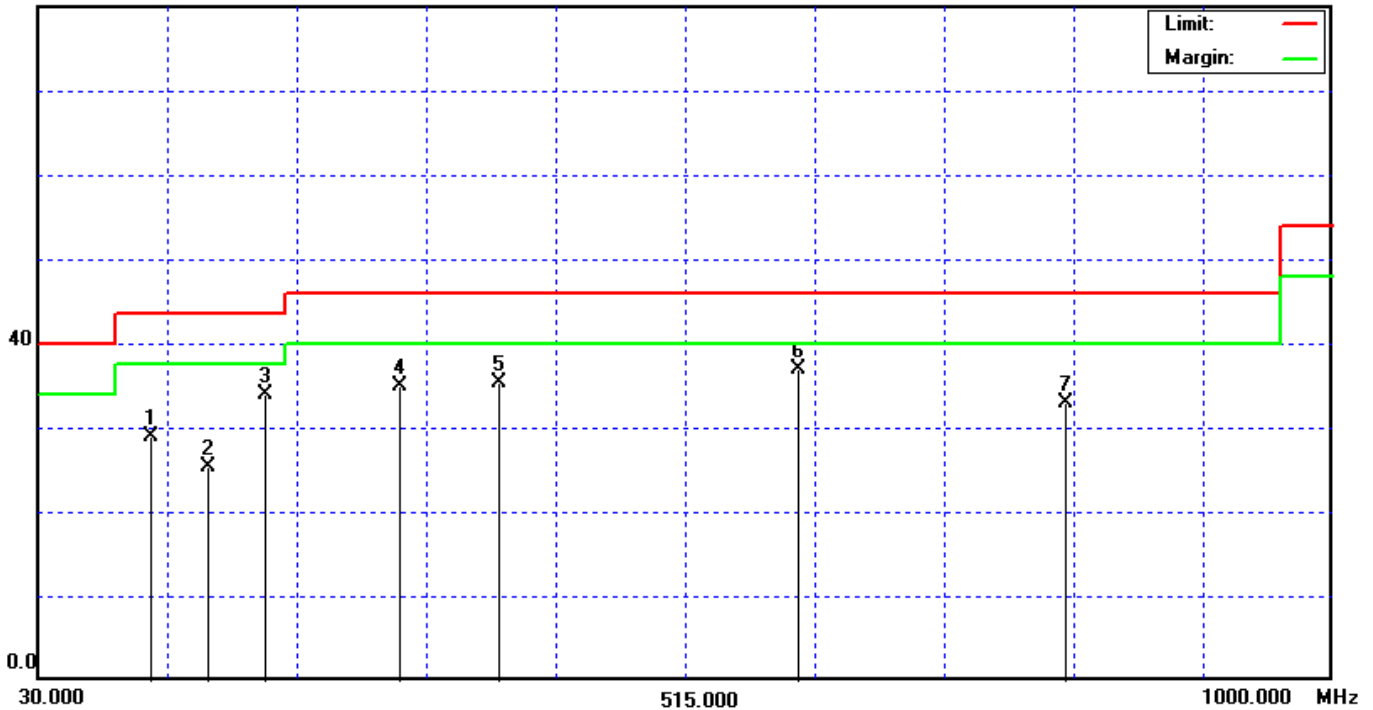
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 4 (Channel 1 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.516	43.25	-14.36	28.89	43.5	-14.61	QP
2	157.473	40.13	-14.86	25.27	43.5	-18.23	QP
3	200.144	49.5	-15.52	33.98	43.5	-9.52	QP
4	300.013	44.6	-9.71	34.89	46	-11.11	QP
5	375.021	42.9	-7.56	35.34	46	-10.66	QP
6	600.05	39.61	-2.73	36.88	46	-9.12	QP
7	800.022	31.9	0.96	32.86	46	-13.14	QP

Remarks:

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

80.0 dBuV/m





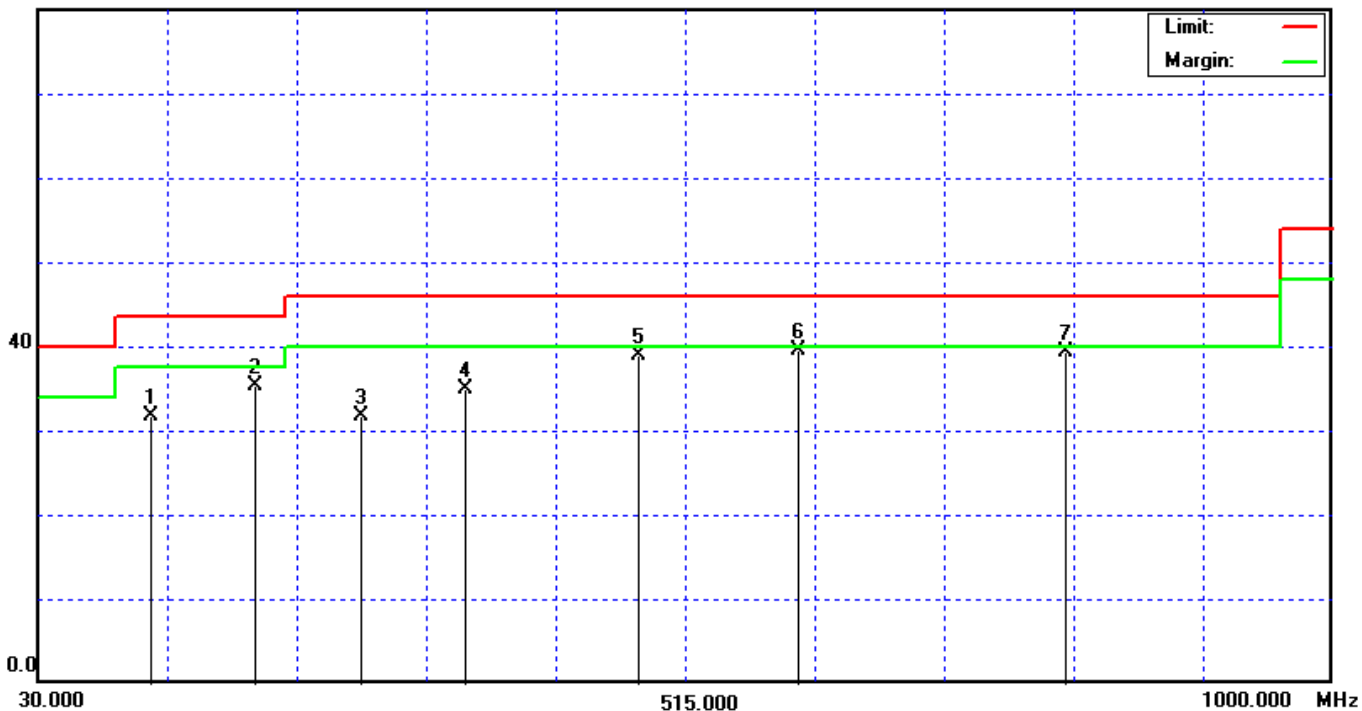
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 4 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.52	46.1	-14.36	31.74	43.5	-11.76	QP
2	191.752	50.62	-15.4	35.22	43.5	-8.28	QP
3	270.844	42.33	-10.64	31.69	46	-14.31	QP
4	350.035	43.2	-8.2	35	46	-11	QP
5	480.025	44.25	-5.35	38.9	46	-7.1	QP
6	600.041	42.32	-2.73	39.59	46	-6.41	QP
7	800.035	38.42	0.96	39.38	46	-6.62	QP

Remarks:

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

80.0 dBuV/m



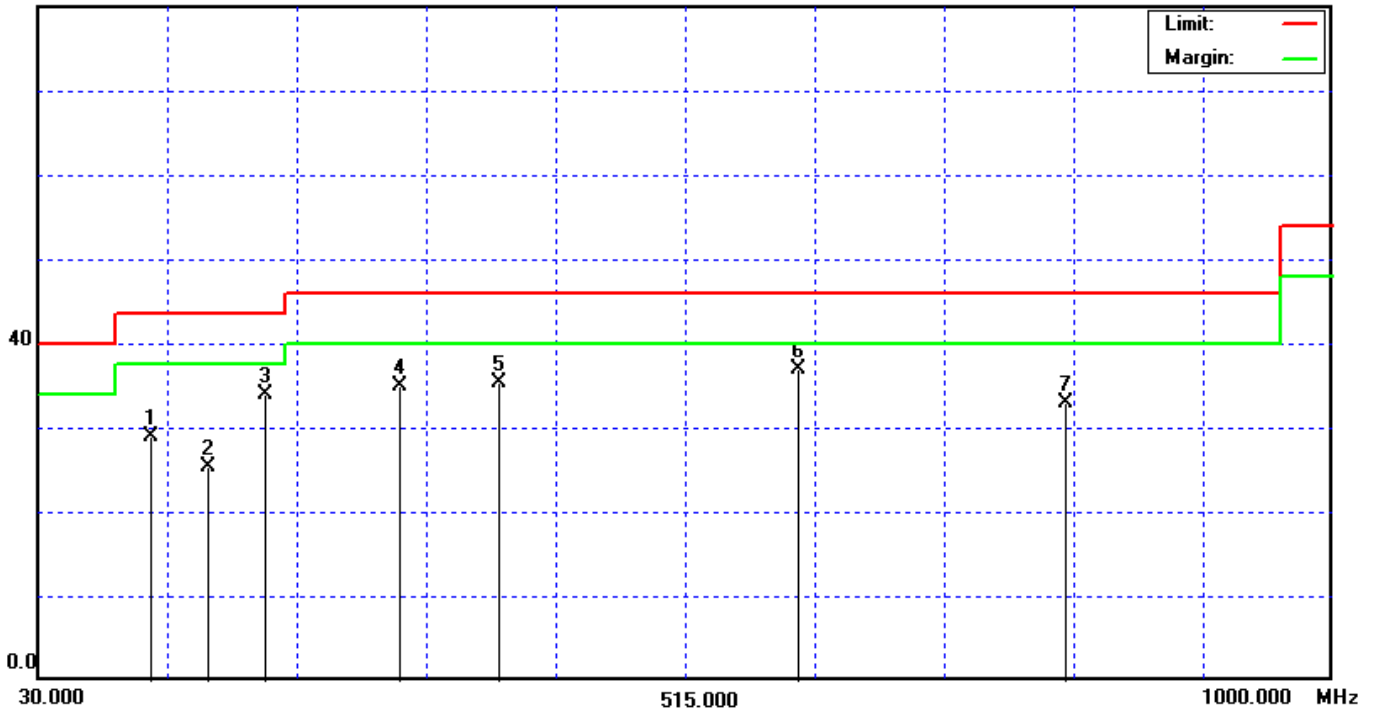
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 4 (Channel 6 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.517	43.26	-14.36	28.9	43.5	-14.6	QP
2	157.475	40.15	-14.86	25.29	43.5	-18.21	QP
3	200.145	49.52	-15.52	34	43.5	-9.5	QP
4	300.015	44.62	-9.71	34.91	46	-11.09	QP
5	375.022	42.92	-7.56	35.36	46	-10.64	QP
6	600.053	39.63	-2.73	36.9	46	-9.1	QP
7	800.025	31.93	0.96	32.89	46	-13.11	QP

Remarks:

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

80.0 dBuV/m



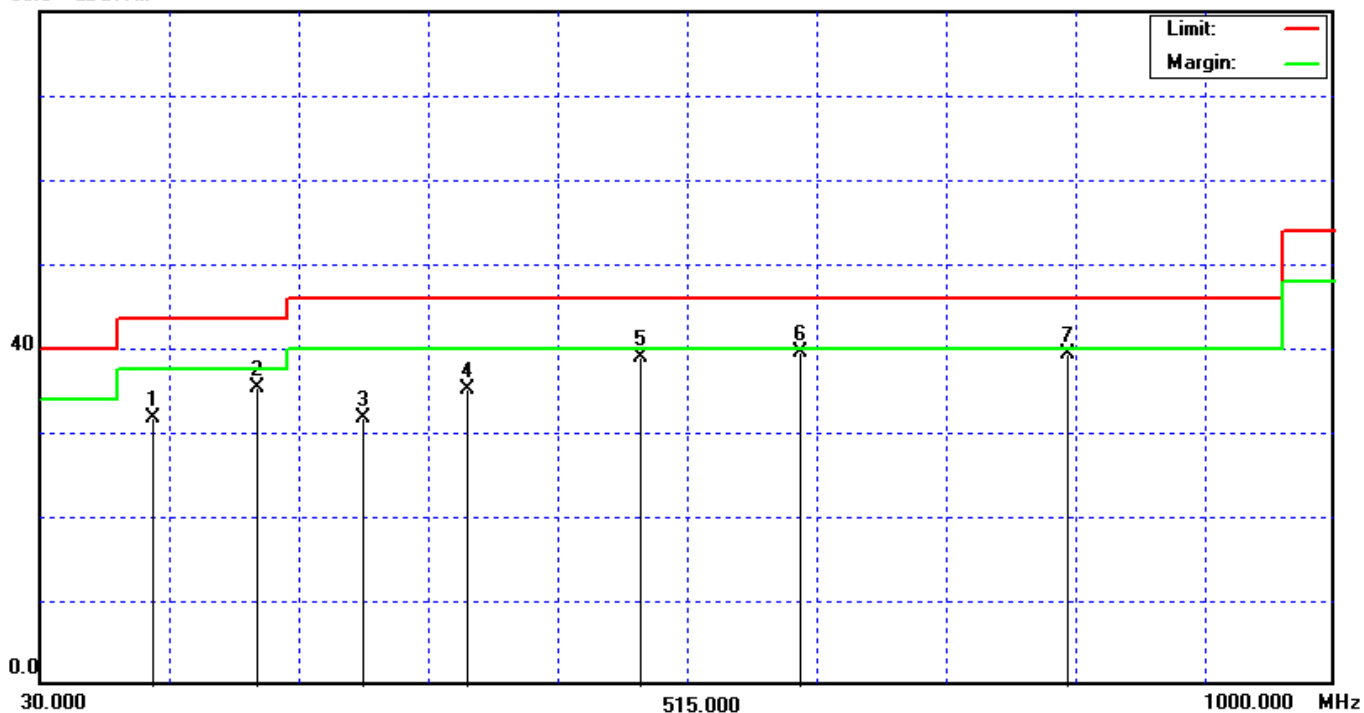
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 4 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV/m	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.523	46.15	-14.35	31.8	43.5	-11.7	QP
2	191.75	50.65	-15.4	35.25	43.5	-8.25	QP
3	270.845	42.35	-10.64	31.71	46	-14.29	QP
4	350.033	43.23	-8.2	35.03	46	-10.97	QP
5	480.024	44.22	-5.35	38.87	46	-7.13	QP
6	600.043	42.3	-2.73	39.57	46	-6.43	QP
7	800.034	38.4	0.96	39.36	46	-6.64	QP

Remarks:

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

80.0 dBuV/m



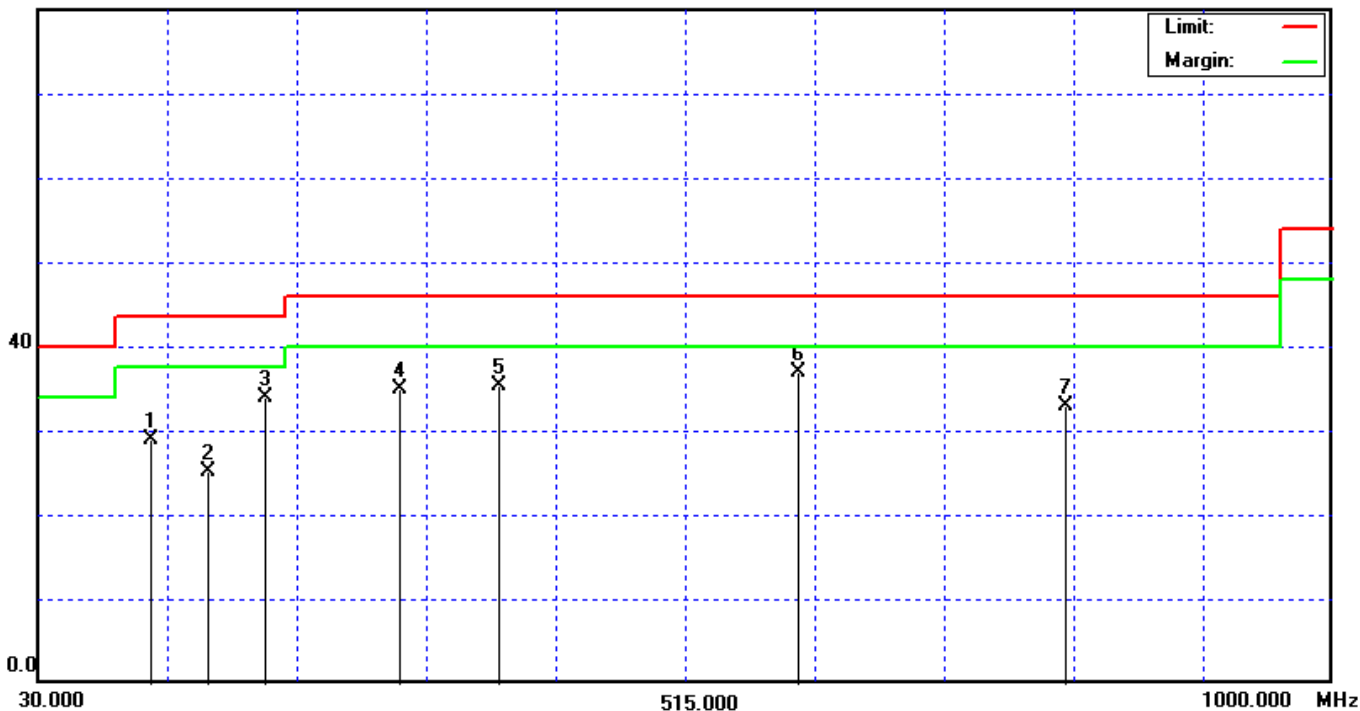
Date of Test	October 20, 2005	Temperature	20 deg/C
EUT	Wireless LAN 11g PCI Adapter	Humidity	62 %RH
Working Cond.	Mode 4 (Channel 11 )	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	114.516	43.24	-14.36	28.88	43.5	-14.62	QP
2	157.473	40	-14.86	25.14	43.5	-18.36	QP
3	200.145	49.5	-15.52	33.98	43.5	-9.52	QP
4	300.014	44.6	-9.71	34.89	46	-11.11	QP
5	375.023	42.9	-7.56	35.34	46	-10.66	QP
6	600.055	39.6	-2.73	36.87	46	-9.13	QP
7	800.026	31.9	0.96	32.86	46	-13.14	QP

Remarks:

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

80.0 dBuV/m



<b>Date of Test</b>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %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

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4823.8	49.4	1.46	50.86	74	-23.14	peak
2	7236.7	42.95	9.39	< 52.34	74	-21.66	peak
3	9649.6	42.92	6.71	< 49.63	74	-24.37	peak
4	12062.5	39.15	14.02	< 53.17	74	-20.83	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 1 (802.11b) Channel 1	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4822.3	40.94	1.6	42.54	54	-11.46	AVG
2	4824.1	53.52	1.61	55.13	74	-18.87	peak
3	7238	43.64	8.7	< 52.34	74	-21.66	peak
4	9650.9	42.53	10.05	< 52.58	74	-21.42	peak
5	12063.8	36.98	16.45	< 53.43	74	-20.57	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %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

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4874.1	47.52	1.42	48.94	74	-25.06	peak
2	7312.1	42.42	9.28	< 51.7	74	-22.3	peak
3	9750.1	43.11	6.98	< 50.09	74	-23.91	peak
4	12188.1	41.6	11.65	< 53.25	74	-20.75	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 1 (802.11b) Channel 6	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4874	51.35	2	53.35	74	-20.65	peak
2	7312	42.34	8.58	< 50.92	74	-23.08	peak
3	9750	42.98	9.81	< 52.79	74	-21.21	peak
4	12188	39.45	14.09	< 53.54	74	-20.46	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %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

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4924.1	46.41	1.38	47.79	74	-26.21	peak
2	7387.1	42.77	9	< 51.77	74	-22.23	peak
3	9850.1	43.6	5.65	< 49.25	74	-24.75	peak
4	12313.1	42.27	9.09	< 51.36	74	-22.64	peak

**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>	October 17, 2005	<b>Temperature</b>	25.3 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	54 %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

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4924.1	48.01	2.38	50.39	74	-23.61	peak
2	7387.1	43.04	8.45	< 51.49	74	-22.51	peak
3	9850.1	43.79	9.78	< 53.57	74	-20.43	peak
4	12313.1	41.62	11.65	< 53.27	74	-20.73	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %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

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4831.5	45.57	1.45	47.02	74	-26.98	peak
2	7245.3	42.81	9.43	< 52.24	74	-21.76	peak
3	9659.1	43.38	6.74	< 50.12	74	-23.88	peak
4	12072.9	39.25	13.82	< 53.07	74	-20.93	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 2 (802.11g) Channel 1	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4831.4	48.48	1.67	50.15	74	-23.85	peak
2	7245.2	42.76	8.69	< 51.45	74	-22.55	peak
3	9659	42.87	10.02	< 52.89	74	-21.11	peak
4	12072.8	37	16.28	< 53.28	74	-20.72	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %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

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4874.8	45.22	1.42	46.64	74	-27.36	peak
2	7314.9	42.88	9.27	< 52.15	74	-21.85	peak
3	9755	43.61	6.98	< 50.59	74	-23.41	peak
4	12195.1	42.39	11.51	< 53.9	74	-20.1	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 2 (802.11g) Channel 6	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4871	47.1	1.98	49.08	74	-24.92	peak
2	7313.9	44.51	8.57	< 53.08	74	-20.92	peak
3	9754	42.66	9.8	< 52.46	74	-21.54	peak
4	12194.1	39.87	13.97	< 53.84	74	-20.16	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %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

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4926.1	44.48	1.38	45.86	74	-28.14	peak
2	7390	43	8.99	< 51.99	74	-22.01	peak
3	9853.9	43.4	5.59	< 48.99	74	-25.01	peak
4	12317.8	43.27	8.99	< 52.26	74	-21.74	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %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

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4924.4	45.24	2.38	47.62	74	-26.38	peak
2	7392	42.43	8.44	< 50.87	74	-23.13	peak
3	9855.9	43.31	9.78	< 53.09	74	-20.91	peak
4	12319.8	41.96	11.51	< 53.47	74	-20.53	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 3 (802.11b) Channel 1	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4818.6	45.95	1.46	47.41	74	-26.59	peak
2	7231.7	42.44	9.33	< 51.77	74	-22.23	peak
3	9644.8	43.4	6.69	< 50.09	74	-23.91	peak
4	12057.9	39.68	14.1	< 53.78	74	-20.22	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 3 (802.11b) Channel 1	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4824	50	1.61	51.61	74	-22.39	peak
2	7237.1	42.34	8.7	< 51.04	74	-22.96	peak
3	9650.2	42.52	10.05	< 52.57	74	-21.43	peak
4	12063.3	37.09	16.46	< 53.55	74	-20.45	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 3 (802.11b) Channel 6	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4873.8	46.24	1.42	47.66	74	-26.34	peak
2	7311.8	41.99	9.28	< 51.27	74	-22.73	peak
3	9749.8	42.6	6.98	< 49.58	74	-24.42	peak
4	12187.8	41.9	11.65	< 53.55	74	-20.45	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 3 (802.11b) Channel 6	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4872.1	40.7	1.99	42.69	54	-11.31	AVG
2	4874	52.33	2	54.33	74	-19.67	peak
3	7310.1	43.36	8.58	< 51.94	74	-22.06	peak
4	9748.1	43.15	9.81	< 52.96	74	-21.04	peak
5	12186.1	39.59	14.13	< 53.72	74	-20.28	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 3 (802.11b) Channel 11	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4924.2	44.24	1.38	45.62	74	-28.38	peak
2	7383.3	43.68	9.01	< 52.69	74	-21.31	peak
3	9842.4	43.49	5.76	< 49.25	74	-24.75	peak
4	12301.5	42.68	9.35	< 52.03	74	-21.97	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 3 (802.11b) Channel 11	<b>Data Rate</b>	11Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4924.2	46.76	2.38	49.14	74	-24.86	peak
2	7383.3	42.82	8.46	< 51.28	74	-22.72	peak
3	9842.4	43.04	9.78	< 52.82	74	-21.18	peak
4	12301.5	41.75	11.88	< 53.63	74	-20.37	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 4 (802.11g) Channel 1	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4829.8	42.5	1.46	43.96	74	-30.04	peak
2	7244.7	42.51	9.43	< 51.94	74	-22.06	peak
3	9659.6	42.69	6.74	< 49.43	74	-24.57	peak
4	12074.5	39.93	13.79	< 53.72	74	-20.28	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 4 (802.11g) Channel 1	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4833.4	46.34	1.69	48.03	74	-25.97	peak
2	7248.3	43.03	8.69	< 51.72	74	-22.28	peak
3	9663.2	42.37	10.01	< 52.38	74	-21.62	peak
4	12078.1	37.54	16.19	< 53.73	74	-20.27	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 4 (802.11g) Channel 6	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4863.9	45.58	1.43	47.01	74	-26.99	peak
2	7297.2	42.35	9.35	< 51.7	74	-22.3	peak
3	9730.5	42.93	6.99	< 49.92	74	-24.08	peak
4	12163.8	41.63	12.11	< 53.74	74	-20.26	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 4 (802.11g) Channel 6	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4863.9	48.24	1.93	50.17	74	-23.83	peak
2	7297.2	43.76	8.61	< 52.37	74	-21.63	peak
3	9730.5	42.86	9.83	< 52.69	74	-21.31	peak
4	12163.8	39.1	14.56	< 53.66	74	-20.34	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 4 (802.11g) Channel 11	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Horizontal</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4930.2	45.51	1.38	46.89	74	-27.11	peak
2	7395.3	42.2	8.97	< 51.17	74	-22.83	peak
3	9860.4	43.33	5.5	< 48.83	74	-25.17	peak
4	12325.5	42.35	8.82	< 51.17	74	-22.83	peak

**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>	October 17, 2005	<b>Temperature</b>	20 deg/C
<b>EUT</b>	Wireless LAN 11g PCI Adapter	<b>Humidity</b>	60 %RH
<b>Working Cond.</b>	Mode 4 (802.11g) Channel 11	<b>Data Rate</b>	54Mbps
<b>Antenna distance</b>	3m at <b>Vertical</b>	<b>Frequency Range</b>	Above 1GHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	4923.6	44.85	2.38	47.23	74	-26.77	peak
2	7396.7	43.87	8.44	< 52.31	74	-21.69	peak
3	9851.4	43.81	9.78	< 53.59	74	-20.41	peak
4	12312	42.05	11.67	< 53.72	74	-20.28	peak

**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

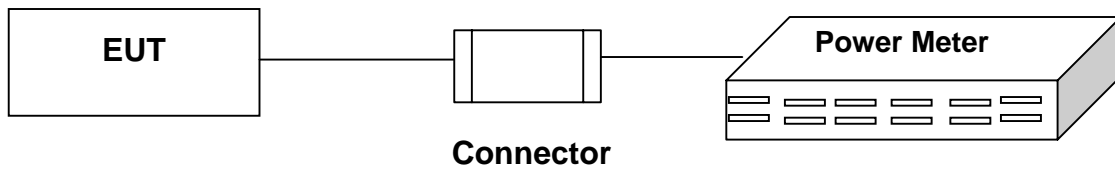
### 5.1 TEST EQUIPMENT

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	04/01/05
	Spectrum Analyzer	HP	E4407B	39240339	07/26/05
2	Power Meter	Rohde & Schwarz	NRVS	100666	04/15/05
3	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	8360191058	04/15/05

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>	October 18, 2005	<b>Temperature</b>	24.5 deg/C
<b>EUT</b>	Wireless LAN 11g PCI adapter	<b>Humidity</b>	53 %RH
<b>Test Mode</b>	802.11b	<b>Data Rate</b>	11Mbps

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
1	2412	15.21	1W(30dBm)	Pass
6	2437	16.47	1W(30dBm)	Pass
11	2462	16.20	1W(30dBm)	Pass

<b>Date of Test</b>	October 18, 2005	<b>Temperature</b>	24.5 deg/C
<b>EUT</b>	Wireless LAN 11g PCI adapter	<b>Humidity</b>	53 %RH
<b>Test Mode</b>	802.11g	<b>Data Rate</b>	54Mbps

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
1	2412	16.18	1W(30dBm)	Pass
6	2437	16.47	1W(30dBm)	Pass
11	2462	16.90	1W(30dBm)	Pass

## 6. BAND EDGE

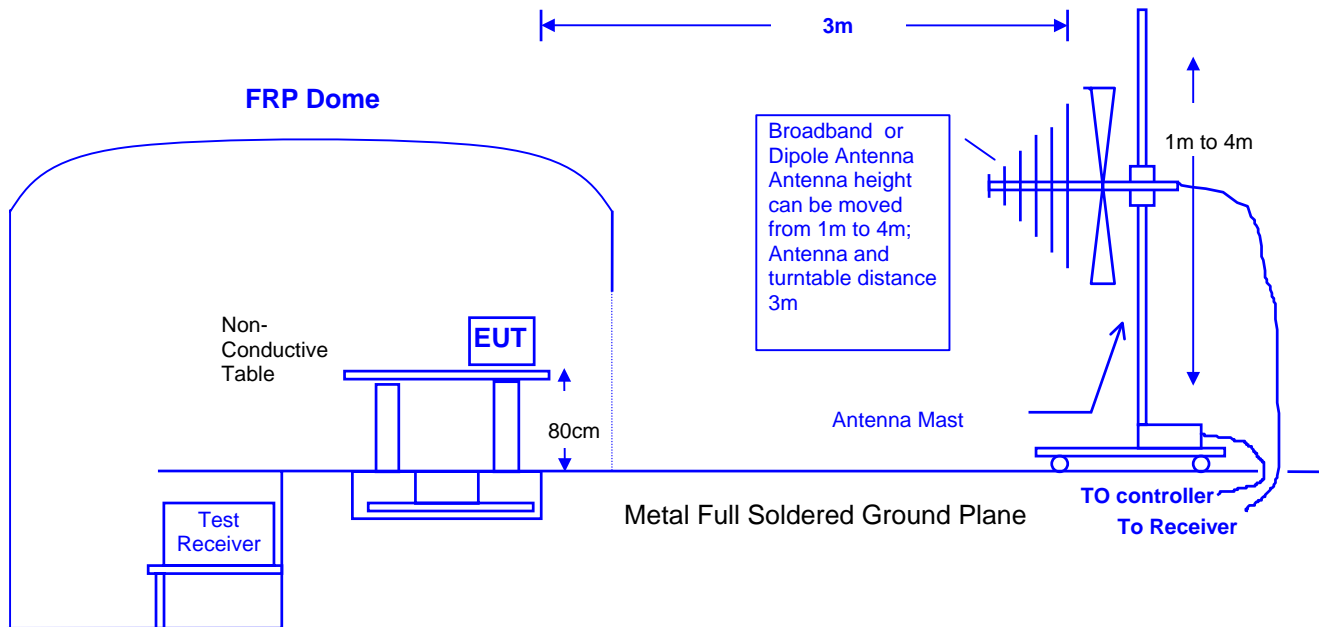
### 6.1 TEST EQUIPMENT

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	Rohde & Schwarz	ESVS30	829007/014	01/05/05
2	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	04/01/05
3	Spectrum Analyzer	HP	E4407B	39240339	07/26/05
4	Power Meter	Rohde & Schwarz	NRVS	100666	04/15/05
5	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	8360191058	04/15/05
6	Pre-Amplifier	HP	8449B	3008A01264	06/13/05
7	BILOG ANTENNA	SCHAFFNER	CBL6112B	2620	11/30/04
9	Horn Antenna	Schwarzbeck	BBHA 9120	D243	12/22/04
10	RF Cable	GesTek	N/A	GTK-E-A151-01	02/14/05
11	Open Site	GesTek	N/A	B1	11/23/04
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 2.7.



## 6.6 TEST RESULT

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 1 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at <b>Horizontal</b>	Test Band	<b>Lower</b>

### Radiation Emission of Fundamental Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2413	66.83	31.47	98.30

### Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2414.4	58.93	31.47	90.40

#### Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
- 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

### TEST Result

The band edge emission plot on **page 76** are Peak and Average. The plot for peak is appear (42.08)dB delta between carry power and maximum emission in restrict band 2385.0 MHz. The plot for average is appear (46.82)dB delta between carry power and maximum emission in restrict band (2386.8)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2385.0 MHz is 98.30 dBuV/m – 42.08 dB = 56.22 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is 90.40 dBuV/m – 46.82 dB = 43.58 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 1 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at <b>Vertical</b>	Test Band	<b>Lower</b>

## Radiation Emission of Fundamental Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2413	79.73	24.42	104.15

## Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2414.5	72.26	24.40	96.66

### 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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

## TEST Result

The band edge emission plot on **page 76** are Peak and Average. The plot for peak is appear (42.08)dB delta between carry power and maximum emission in restrict band 2385.0 MHz. The plot for average is appear (46.82)dB delta between carry power and maximum emission in restrict band (2386.8)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2385.0 MHz is 104.15 dBuV/m – 42.08 dB = 62.07 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is 96.66 dBuV/m – 46.82 dB = 49.84 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 3 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at <b>Horizontal</b>	Test Band	<b>Lower</b>

## Radiation Emission of Fundamental Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2413	70.63	31.47	102.10

## Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2414.4	62.89	31.47	94.36

### Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
- 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

## TEST Result

The band edge emission plot on **page 76** are Peak and Average. The plot for peak is appear (42.08)dB delta between carry power and maximum emission in restrict band 2385.0 MHz. The plot for average is appear (46.82)dB delta between carry power and maximum emission in restrict band (2386.8)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2385.0 MHz is 102.10dBuV/m – 42.08 dB = 60.02 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is 94.36 dBuV/m – 46.82 dB = 47.54 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 3 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at <b>Vertical</b>	Test Band	<b>Lower</b>

## Radiation Emission of Fundamental Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2413	75.23	24.42	99.65

## Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2414.3	67.88	24.40	92.28

### Remark:

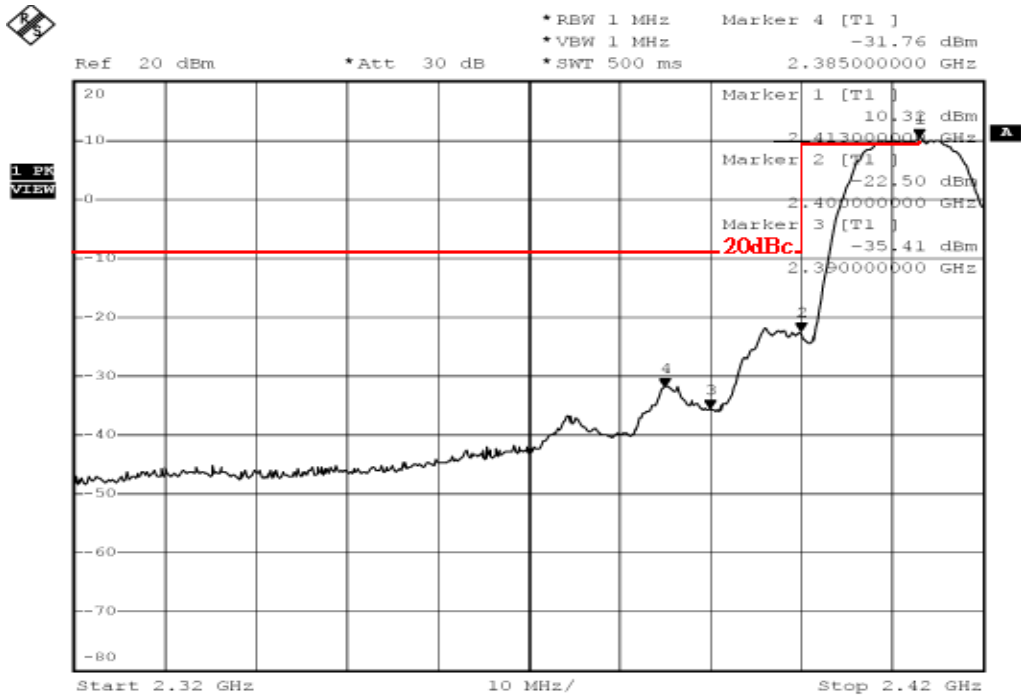
1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

## TEST Result

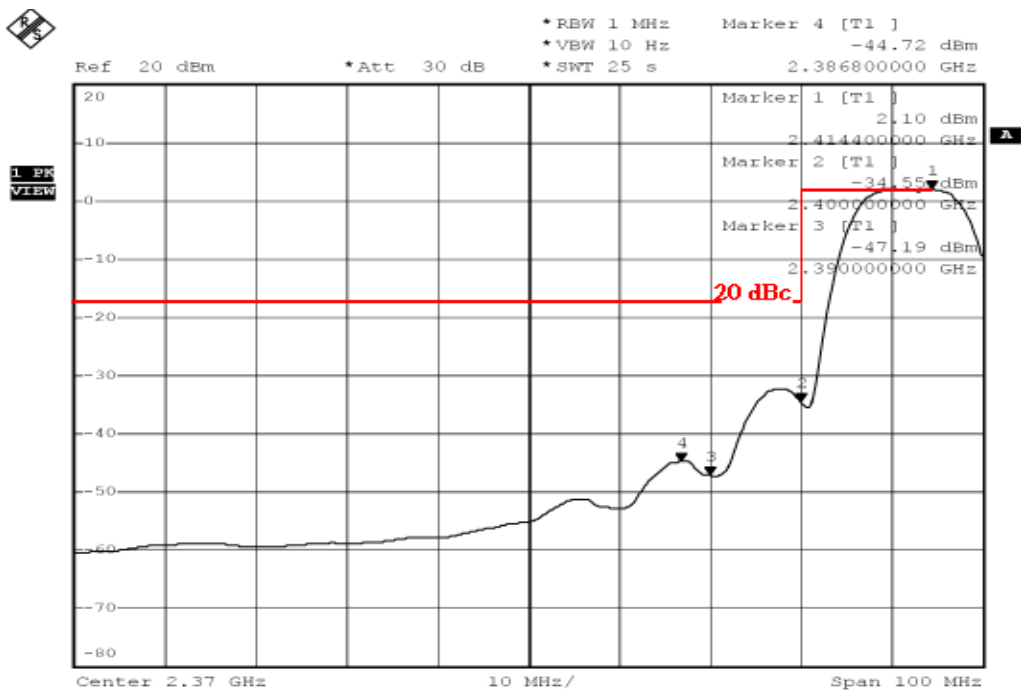
The band edge emission plot on **page 76** are Peak and Average. The plot for peak is appear (42.08)dB delta between carry power and maximum emission in restrict band 2385.0 MHz. The plot for average is appear (46.82)dB delta between carry power and maximum emission in restrict band (2386.8)MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2385.0 MHz is 99.65 dBuV/m – 42.08 dB = 57.57 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is 92.28 dBuV/m – 46.82 dB = 45.46 dBuV/m which is under 54dBuV/m



Date: 19.OCT.2005 14:05:12



Date: 19.OCT.2005 14:08:03

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 1 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at <b>Horizontal</b>	Test Band	<b>Higher</b>

## Radiation Emission of Fundamental Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2462.9	65.41	31.36	96.77

## Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2459.8	57.99	31.36	89.35

### 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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

## TEST Result

The band edge emission plot on **page 81** are Peak and Average. The polt for peak is appear (43.84)dB delta between carry power and maximum emission in restrict band 2487.2 MHz. The plot for average is appear (48.42)dB delta between carry power and maximum emission in restrict band (2487.4)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2487.2 MHz is 96.77 dBuV/m – 43.84 dB = 52.93 dBuV/m which is under 74dBuV/m.

Average field strength of 2487.4 MHz is 89.35 dBuV/m – 48.42 dB = 40.93 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 1 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at <b>Vertical</b>	Test Band	<b>Higher</b>

## Radiation Emission of Fundamental

### Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463	79.17	23.61	102.78

### Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2459.6	71.97	23.66	95.63

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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

## TEST Result

The band edge emission plot on **page 81** are Peak and Average. The plot for peak is appear (43.84)dB delta between carry power and maximum emission in restrict band 2487.2 MHz. The plot for average is appear (48.42)dB delta between carry power and maximum emission in restrict band (2487.4)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2487.2 MHz is 102.78dBuV/m – 43.84 dB = 58.94 dBuV/m which is under 74dBuV/m.

Average field strength of 2487.4 MHz is 95.63 dBuV/m – 48.42 dB = 47.21 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 3 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at <b>Horizontal</b>	Test Band	<b>Higher</b>

## Radiation Emission of Fundamental

### Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463	69.67	31.36	101.03

### Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2461.6	62.18	31.36	93.54

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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

## TEST Result

The band edge emission plot on **page 81** are Peak and Average. The plot for peak is appear (43.84)dB delta between carry power and maximum emission in restrict band 2487.2 MHz. The plot for average is appear (48.42)dB delta between carry power and maximum emission in restrict band (2487.4)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2487.2 MHz is 101.03 dBuV/m – 43.84 dB = 57.19 dBuV/m which is under 74dBuV/m.

Average field strength of 2487.4 MHz is 93.54 dBuV/m – 48.42 dB = 45.12 dBuV/m which is under 54dBuV/m



Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 3 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at <b>Vertical</b>	Test Band	<b>Higher</b>

## Radiation Emission of Fundamental Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463	74.71	23.61	98.32

## Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2459.6	67.24	23.66	90.90

### Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10Hz
- 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

## TEST Result

The band edge emission plot on **page 81** are Peak and Average. The plot for peak is appear (43.84)dB delta between carry power and maximum emission in restrict band 2487.2 MHz. The plot for average is appear (48.42)dB delta between carry power and maximum emission in restrict band (2487.4)MHz.

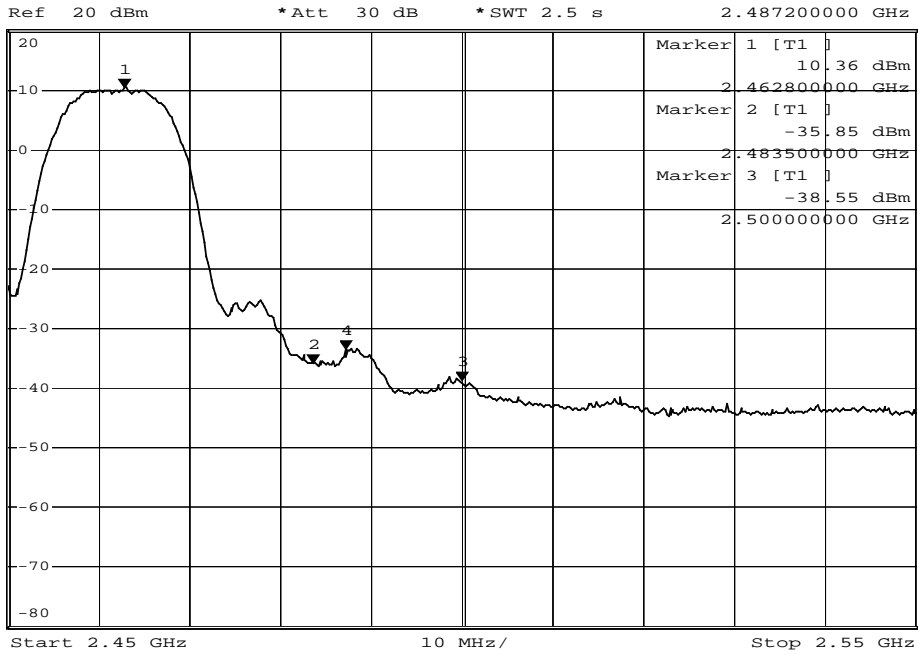
The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2487.2 MHz is 98.32dBuV/m – 43.84 dB = 54.48 dBuV/m which is under 74dBuV/m.

Average field strength of 2487.4 MHz is 90.90 dBuV/m – 48.42 dB = 42.48 dBuV/m which is under 54dBuV/m



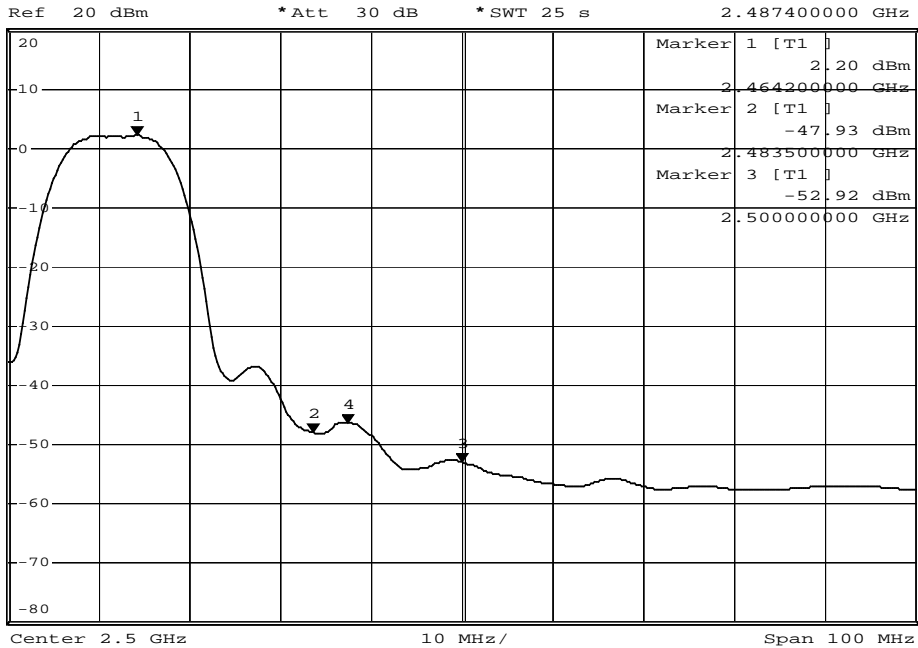
\*RBW 1 MHz      Marker 4 [T1 ]  
 \*VBW 1 MHz      -33.48 dBm  
 \*SWT 2.5 s      2.487200000 GHz



Date: 18.OCT.2005 16:30:08



\*RBW 1 MHz      Marker 4 [T1 ]  
 \*VBW 10 Hz      -46.22 dBm  
 \*SWT 25 s      2.487400000 GHz



Date: 18.OCT.2005 16:33:34

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 2 (802.11g)	Data Rate	54Mbps
Antenna distance	3m at <b>Horizontal</b>	Test Band	<b>Lower</b>

## Radiation Emission of Fundamental

### Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2414.9	63.02	31.46	94.48

### Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2415.6	53.08	31.46	84.54

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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10Hz
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

## TEST Result

The band edge emission plot on **page 86** are Peak and Average. The plot for peak is appear (40.43)dB delta between carry power and maximum emission in restrict band 2390 MHz. The plot for average is appear (46.82)dB delta between carry power and maximum emission in restrict band (2386.8)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2390 MHz is 94.48 dBuV/m – 40.43 dB = 54.05 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is 84.54 dBuV/m – 46.82 dB = 37.72 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 2 (802.11g)	Data Rate	54Mbps
Antenna distance	3m at <b>Vertical</b>	Test Band	<b>Lower</b>

## Radiation Emission of Fundamental

### Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2414.9	76.24	24.39	100.63

### Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2415.5	66.21	24.38	90.59

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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

## TEST Result

The band edge emission plot on **page 86** are Peak and Average. The plot for peak is appear (40.43)dB delta between carry power and maximum emission in restrict band 2390 MHz. The plot for average is appear (46.82)dB delta between carry power and maximum emission in restrict band (2386.8)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2390 MHz is 100.63 dBuV/m – 40.43 dB = 60.2 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is 90.59 dBuV/m – 46.82 dB = 43.77 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 4 (802.11g)	Data Rate	11Mbps
Antenna distance	3m at <b>Horizontal</b>	Test Band	<b>Lower</b>

## Radiation Emission of Fundamental

### Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2413.8	67.71	31.47	99.18

### Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2415.5	57.31	31.46	88.77

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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10Hz
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

## TEST Result

The band edge emission plot on **page 86** are Peak and Average. The plot for peak is appear (40.43)dB delta between carry power and maximum emission in restrict band 2390 MHz. The plot for average is appear (46.82)dB delta between carry power and maximum emission in restrict band (2386.8)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2390 MHz is 99.18 dBuV/m – 40.43 dB = 58.75 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is 88.77 dBuV/m – 46.82 dB = 41.95 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 4 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at <b>Vertical</b>	Test Band	<b>Lower</b>

## Radiation Emission of Fundamental Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2415.2	71.97	24.38	96.29

## Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2414.2	61.12	24.40	85.52

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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

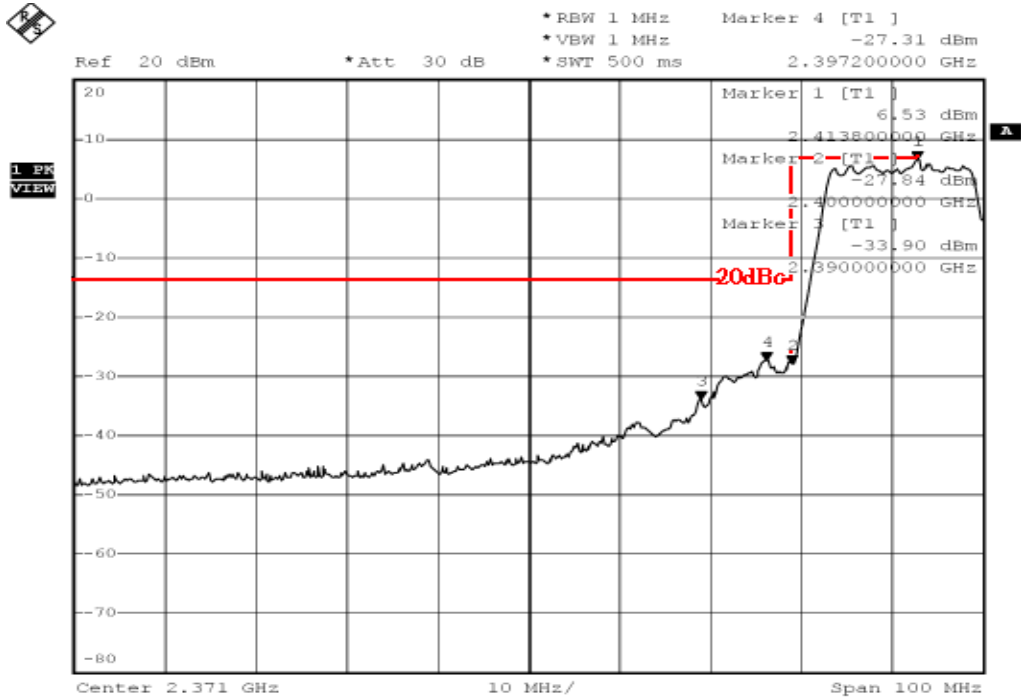
## TEST Result

The band edge emission plot on **page 86** are Peak and Average. The plot for peak is appear (40.43)dB delta between carry power and maximum emission in restrict band 2390 MHz. The plot for average is appear (46.82)dB delta between carry power and maximum emission in restrict band (2386.8)MHz.

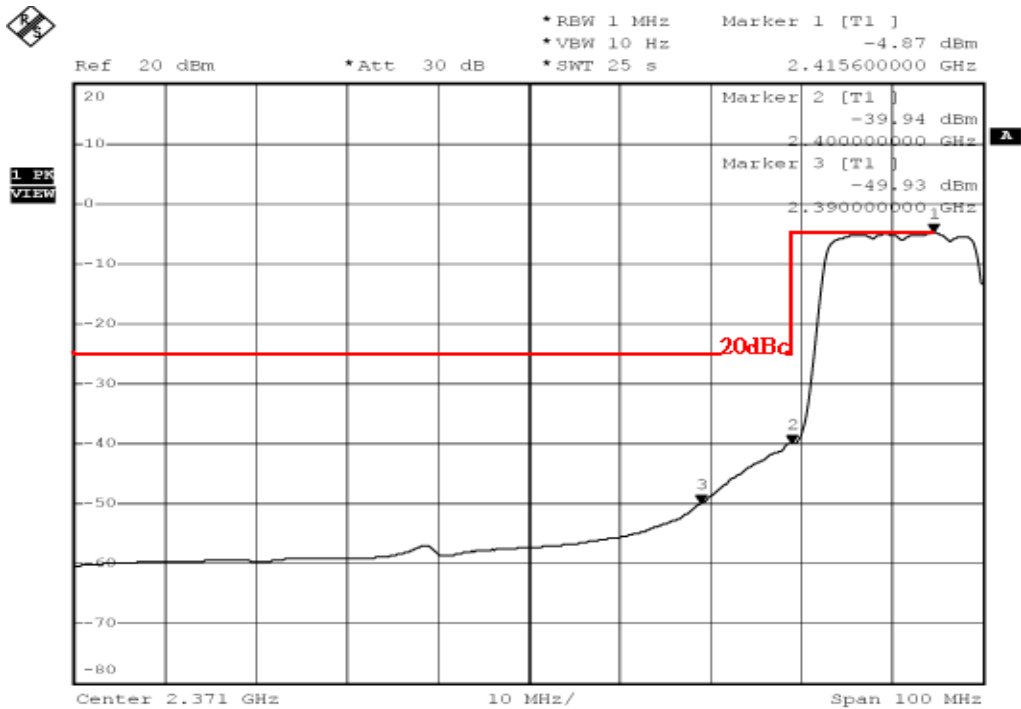
The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2390 MHz is 96.29 dBuV/m – 40.43 dB = 55.86 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is 85.52 dBuV/m – 46.82 dB = 38.7 dBuV/m which is under 54dBuV/m



Date: 18.OCT.2005 16:49:00



Date: 18.OCT.2005 16:52:35

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 2 (802.11g)	Data Rate	54Mbps
Antenna distance	3m at <b>Horizontal</b>	Test Band	<b>Higher</b>

## Radiation Emission of Fundamental

### Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463.8	63.02	31.35	94.37

### Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2457.5	53.39	31.37	83.76

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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

## TEST Result

The band edge emission plot on **page 91** are Peak and Average. The plot for peak is appear (43.23)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (45.44)dB delta between carry power and maximum emission in restrict band (2483.5)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2483.5 MHz is 94.37 dBuV/m – 43.23 dB = 51.14 dBuV/m which is under 74dBuV/m.

Average field strength of 2483.5 MHz is 83.76 dBuV/m – 45.44 dB = 38.32 dBuV/m which is under 54dBuV/m



Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 2 (802.11g)	Data Rate	54Mbps
Antenna distance	3m at <b>Vertical</b>	Test Band	<b>Higher</b>

## Radiation Emission of Fundamental Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463.8	76.37	23.60	99.97

## Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2457.5	65.68	23.70	89.38

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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

## TEST Result

The band edge emission plot on **page 91** are Peak and Average. The plot for peak is appear (43.23)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (45.44)dB delta between carry power and maximum emission in restrict band (2483.5)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2483.5 MHz is 99.97dBuV/m – 43.23 dB = 56.74 dBuV/m which is under 74dBuV/m.

Average field strength of 2483.5 MHz is 89.38 dBuV/m – 45.44 dB = 43.94 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 4 (802.11g)	Data Rate	11Mbps
Antenna distance	3m at <b>Horizontal</b>	Test Band	<b>Higher</b>

## Radiation Emission of Fundamental

### Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2465.0	66.36	31.35	97.71

### Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2465.6	56.53	31.35	87.88

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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

## TEST Result

The band edge emission plot on **page 91** are Peak and Average. The plot for peak is appear (43.23)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (45.44)dB delta between carry power and maximum emission in restrict band (2483.5)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2483.5 MHz is 97.71 dBuV/m – 43.23 dB = 54.29 dBuV/m which is under 74dBuV/m.

Average field strength of 2483.5 MHz is 87.88 dBuV/m – 45.44 dB = 42.44 dBuV/m which is under 54dBuV/m

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	Mode 4 (802.11g)	Data Rate	11Mbps
Antenna distance	3m at <b>Vertical</b>	Test Band	<b>Higher</b>

## Radiation Emission of Fundamental Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2465	70.85	23.58	94.43

## Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2460.7	60.99	23.65	84.64

### 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.
3. Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
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

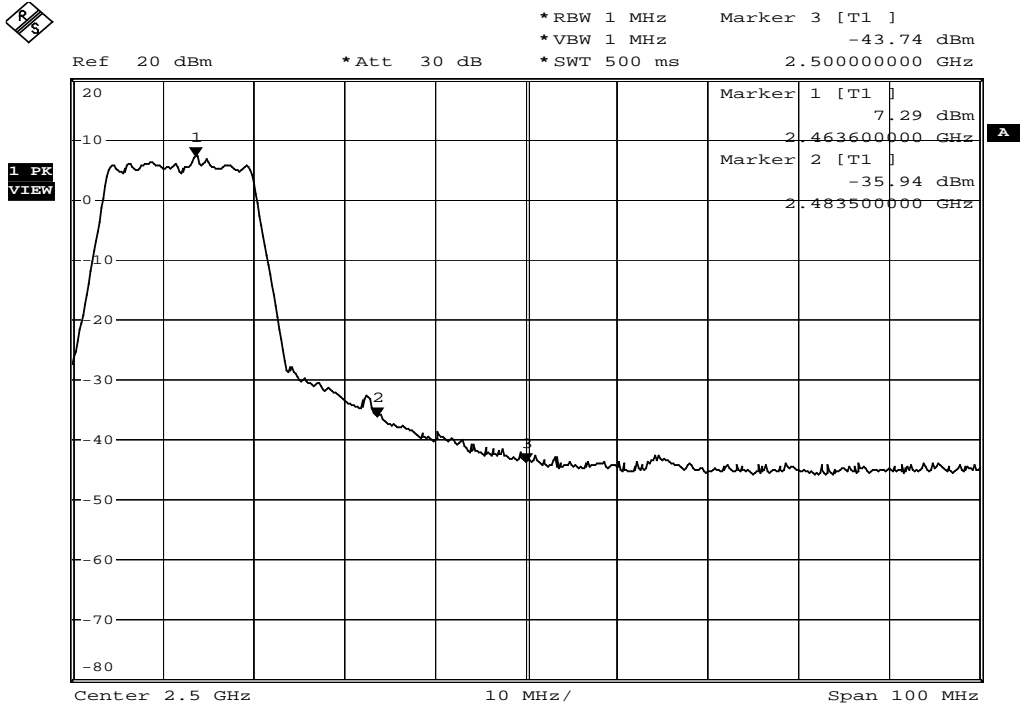
## TEST Result

The band edge emission plot on **page 91** are Peak and Average. The plot for peak is appear (43.23)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (45.44)dB delta between carry power and maximum emission in restrict band (2483.5)MHz.

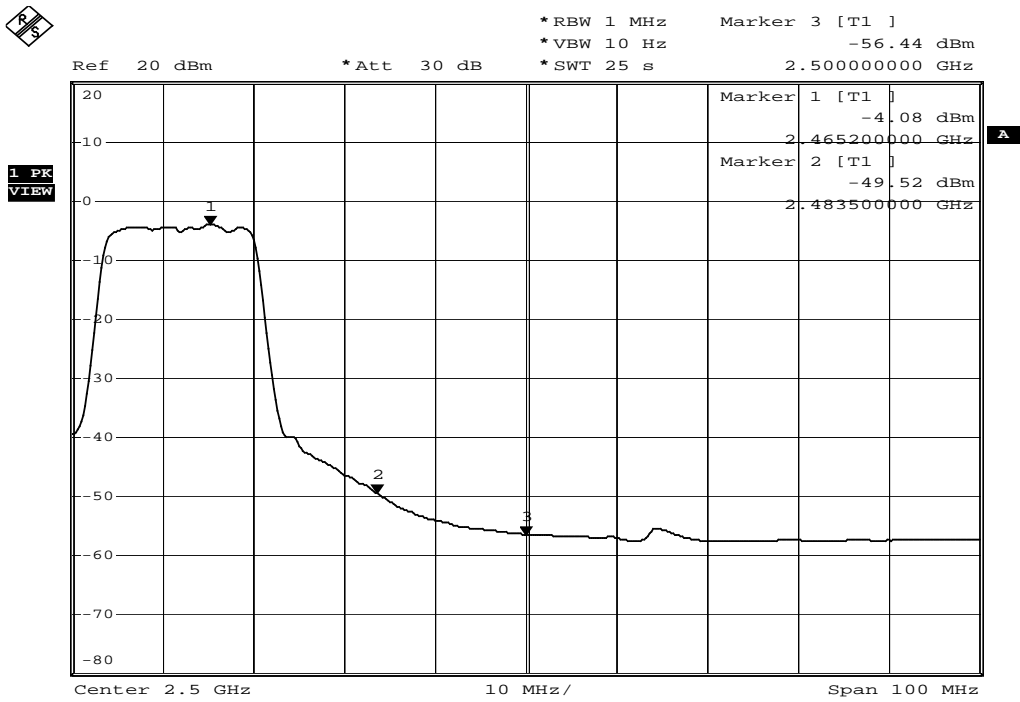
The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2483.5 MHz is 94.43dBuV/m – 43.23 dB = 51.01 dBuV/m which is under 74dBuV/m.

Average field strength of 2483.5 MHz is 84.64 dBuV/m – 45.44 dB = 39.2 dBuV/m which is under 54dBuV/m



Date: 18.OCT.2005 16:36:40



Date: 18.OCT.2005 16:39:39

## 7. OCCUPIED BANDWIDTH

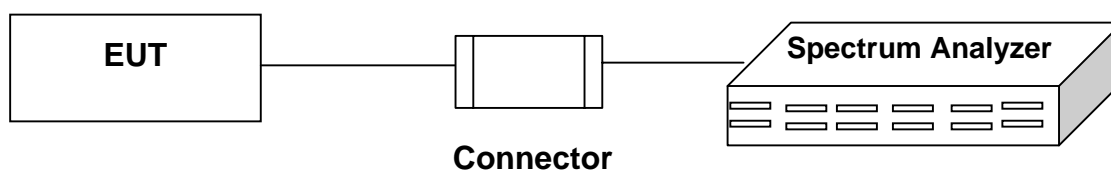
### 7.1 TEST EQUIPMENT

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	04/01/05
2	Spectrum Analyzer	HP	E4407B	39240339	07/26/05

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

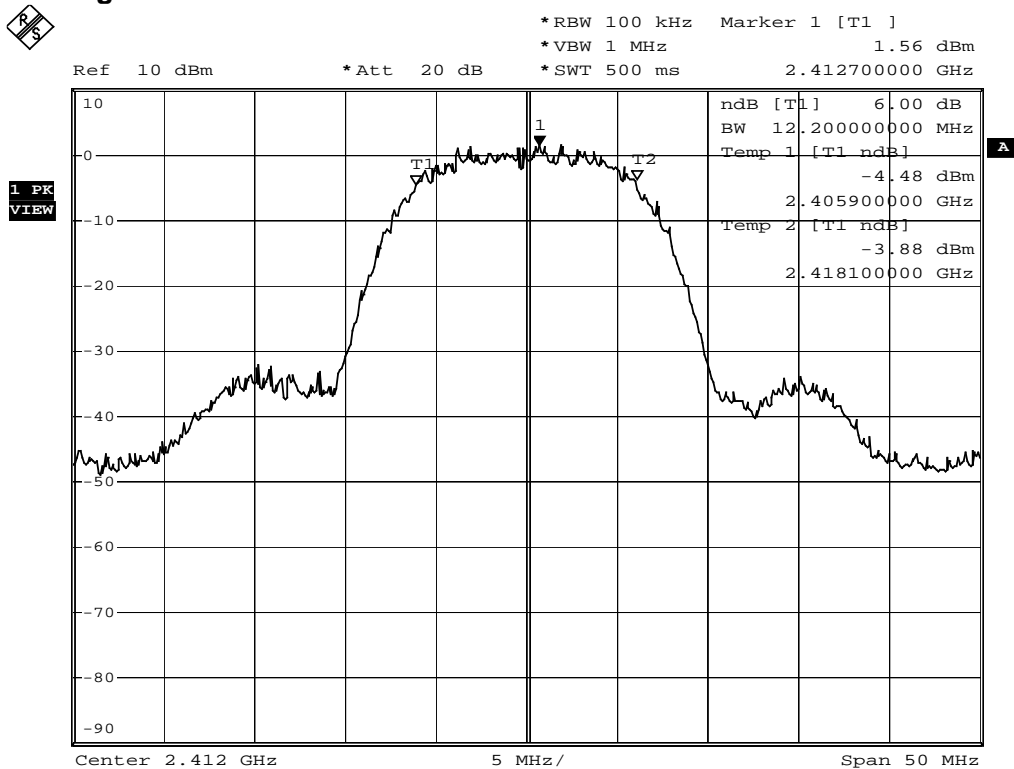
WLAN: The minimum 6dB bandwidth shall be at least 500KHz.

### 7.4 TEST RESULT

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	802.11b	Data Rate	11Mbps

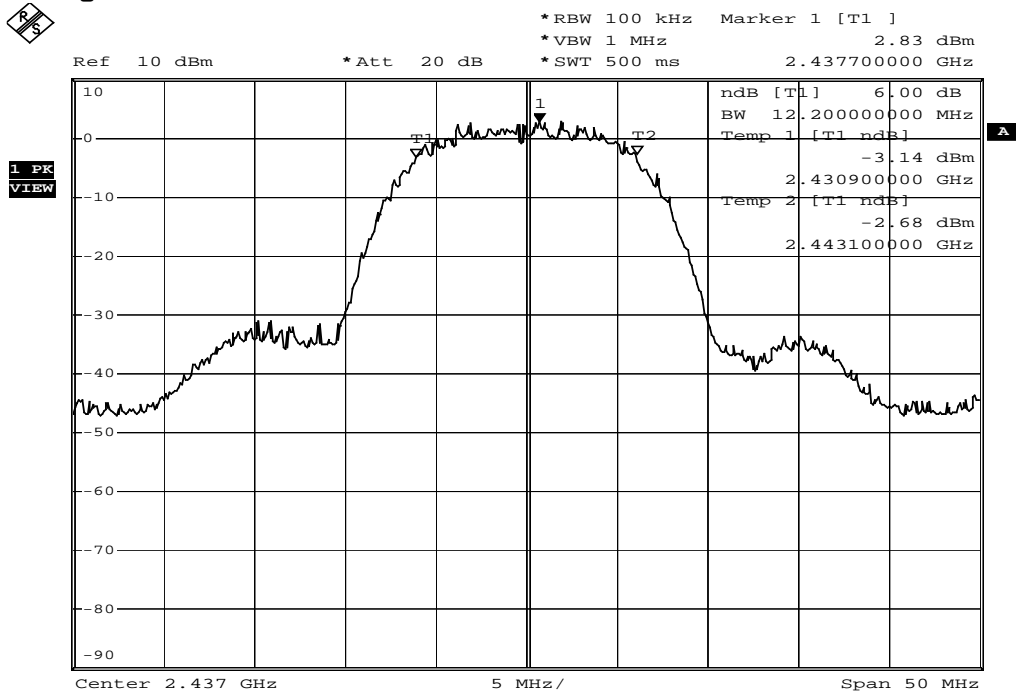
Channel No.	Frequency (MHz)	Bandwidth (MHz)	Required limit (KHz)	Result
1	2412	12.2	>500	Pass
6	2437	12.2	>500	Pass
11	2462	12.2	>500	Pass

Figure Channel 1:



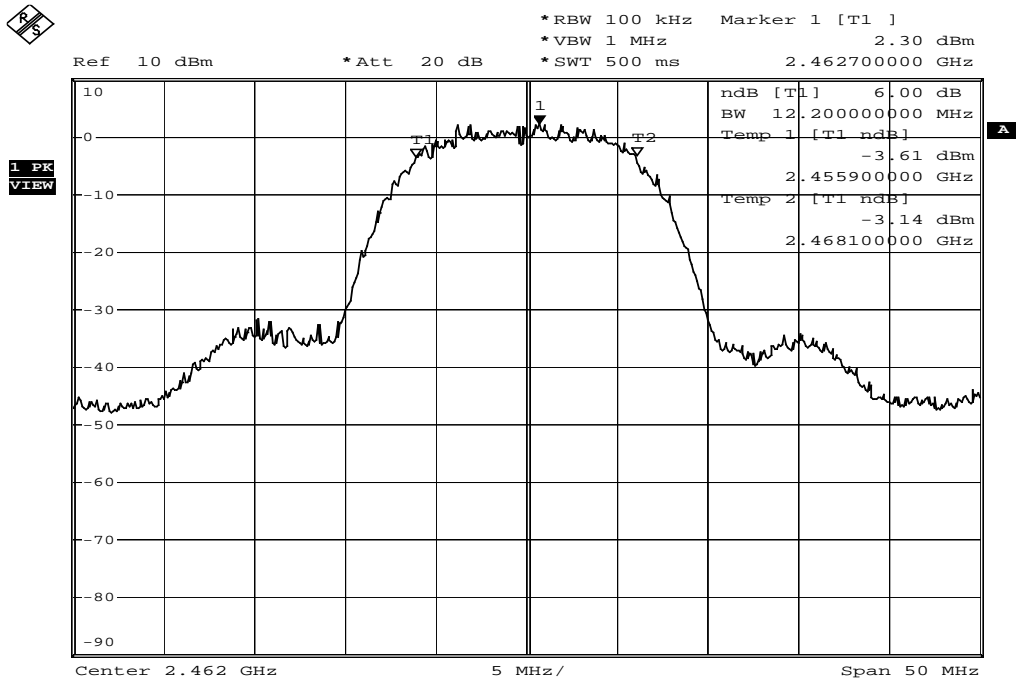
Date: 18.OCT.2005 13:55:37

**Figure Channel 6:**



Date: 18.OCT.2005 14:06:03

**Figure Channel 11:**

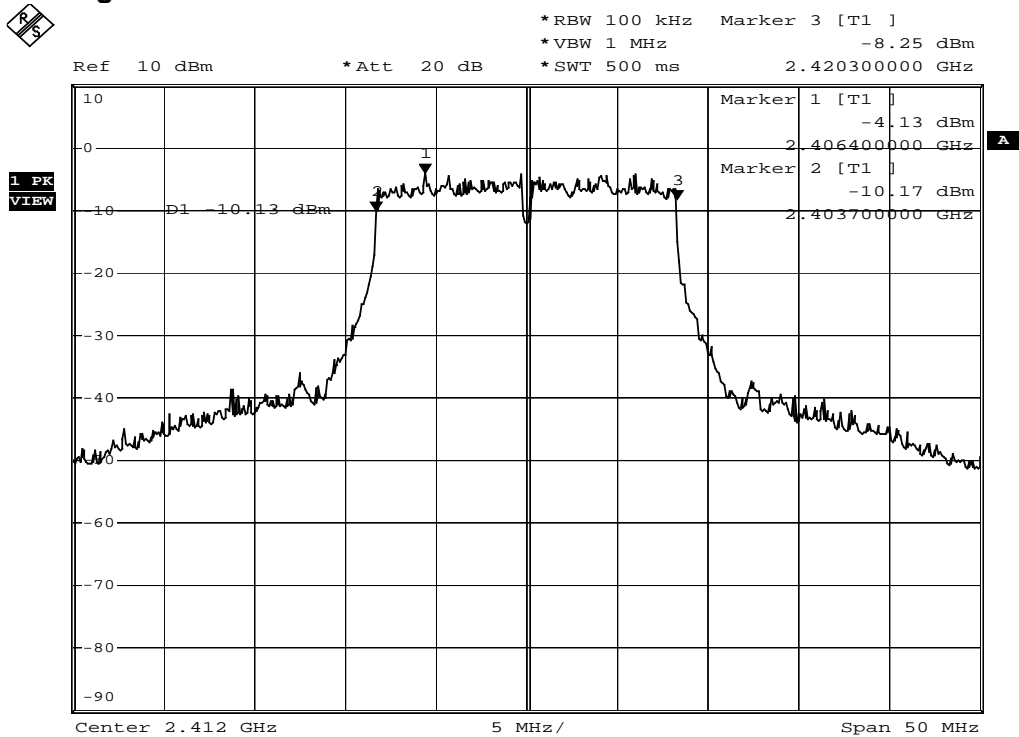


Date: 18.OCT.2005 14:16:31

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	802.11g	Data Rate	54Mbps

Channel No.	Frequency (MHz)	Bandwidth (MHz)	Required limit (KHz)	Result
1	2412	16.6	>500	Pass
6	2437	16.6	>500	Pass
11	2462	16.6	>500	Pass

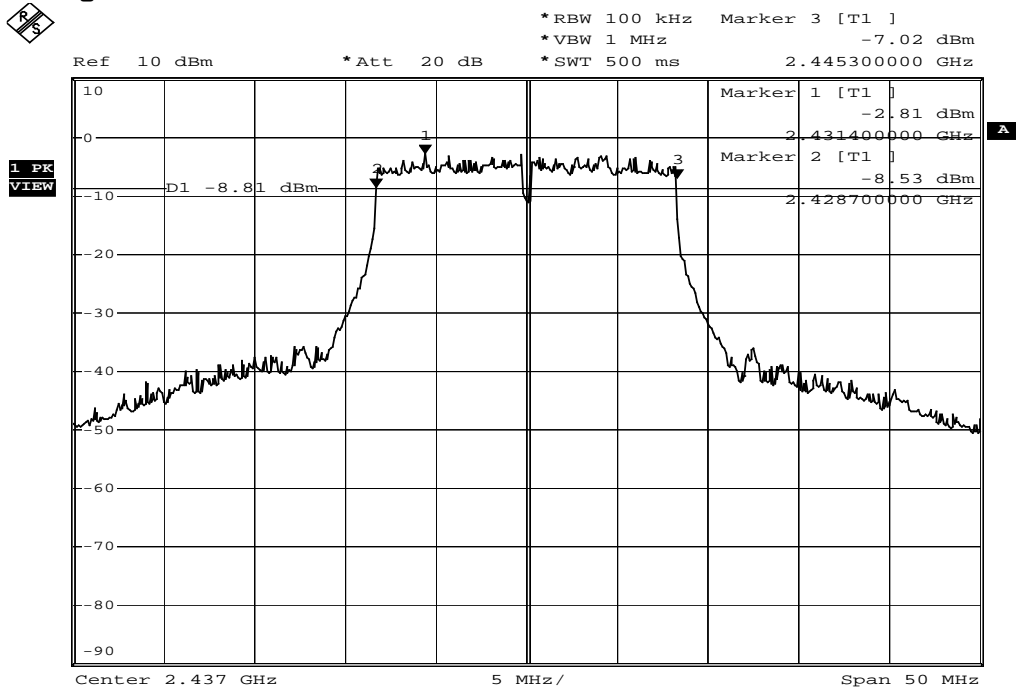
Figure Channel 1:



Date: 18.OCT.2005 14:30:00

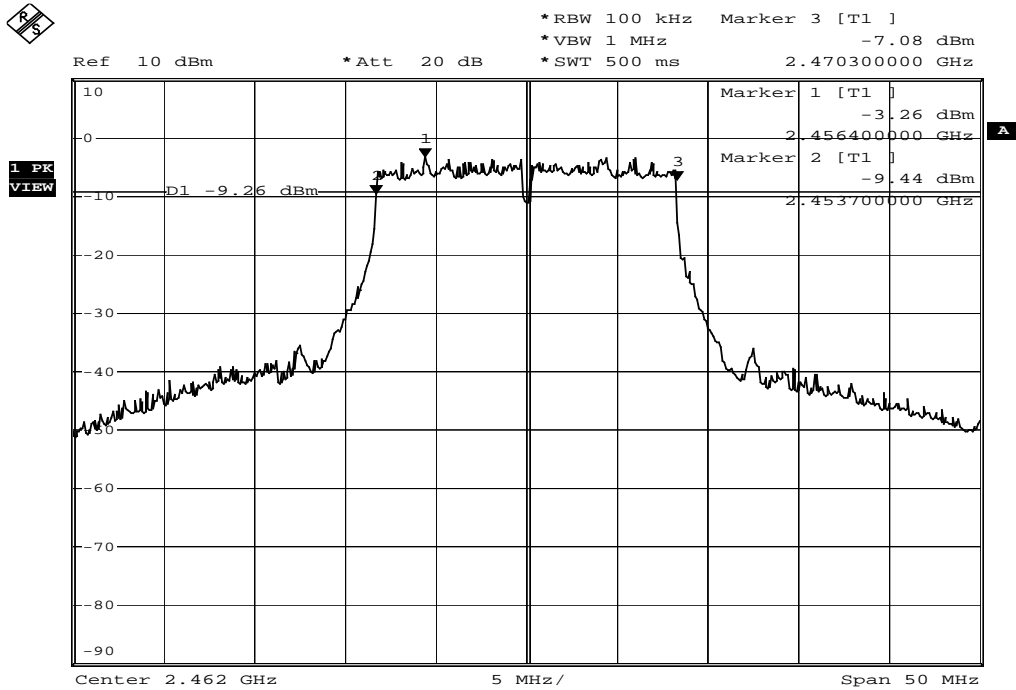


**Figure Channel 6:**



Date: 18.OCT.2005 14:44:09

**Figure Channel 11:**



Date: 18.OCT.2005 15:06:06

## 8. POWER DENSITY

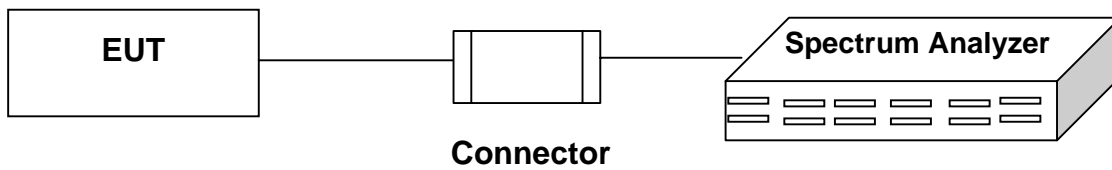
### 8.1 TEST EQUIPMENT

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	04/01/05
2	Spectrum Analyzer	HP	E4407B	39240339	07/26/05

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

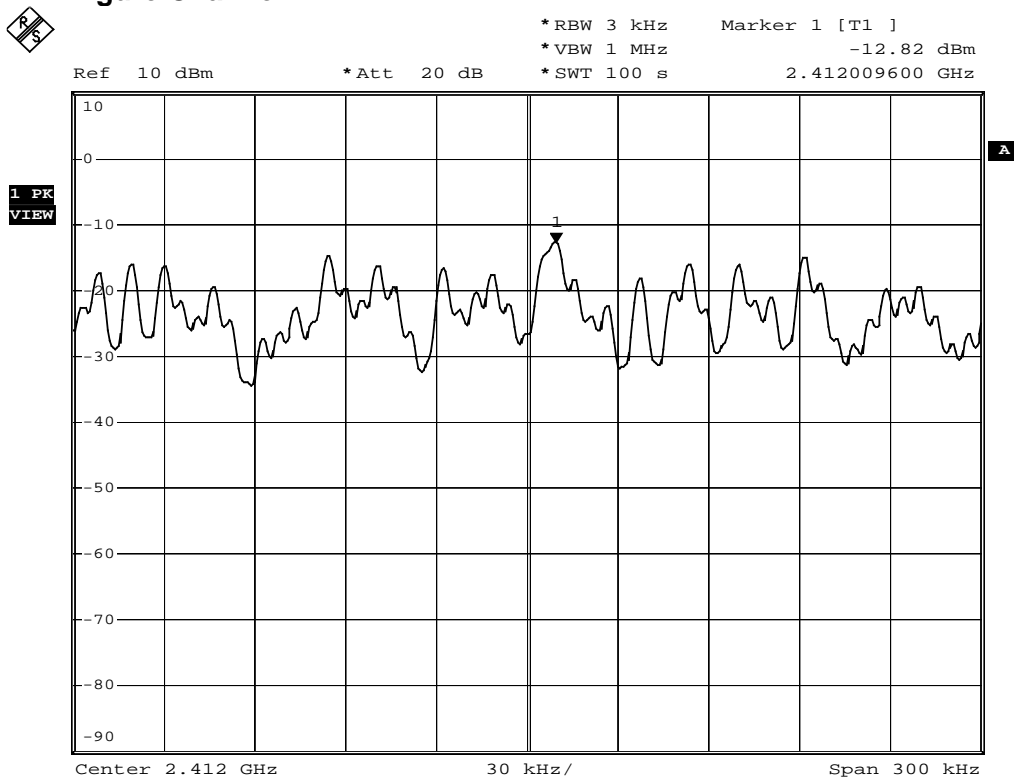
The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3KHz bandwidth.

### 8.4 TEST RESULT

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53 %RH
Working Cond.	802.11b	Data Rate	11Mbps

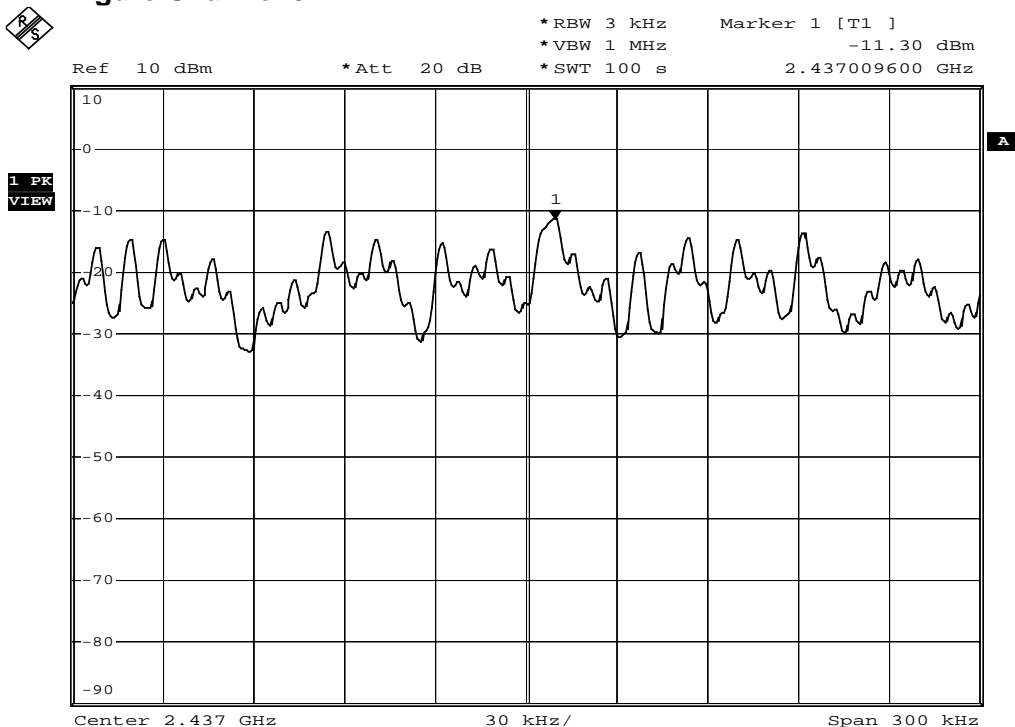
Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required limit (dBm)	Result
1	2412	-12.82	<8dBm	Pass
6	2437	-11.30	<8dBm	Pass
11	2462	-11.79	<8dBm	Pass

Figure Channel 1:



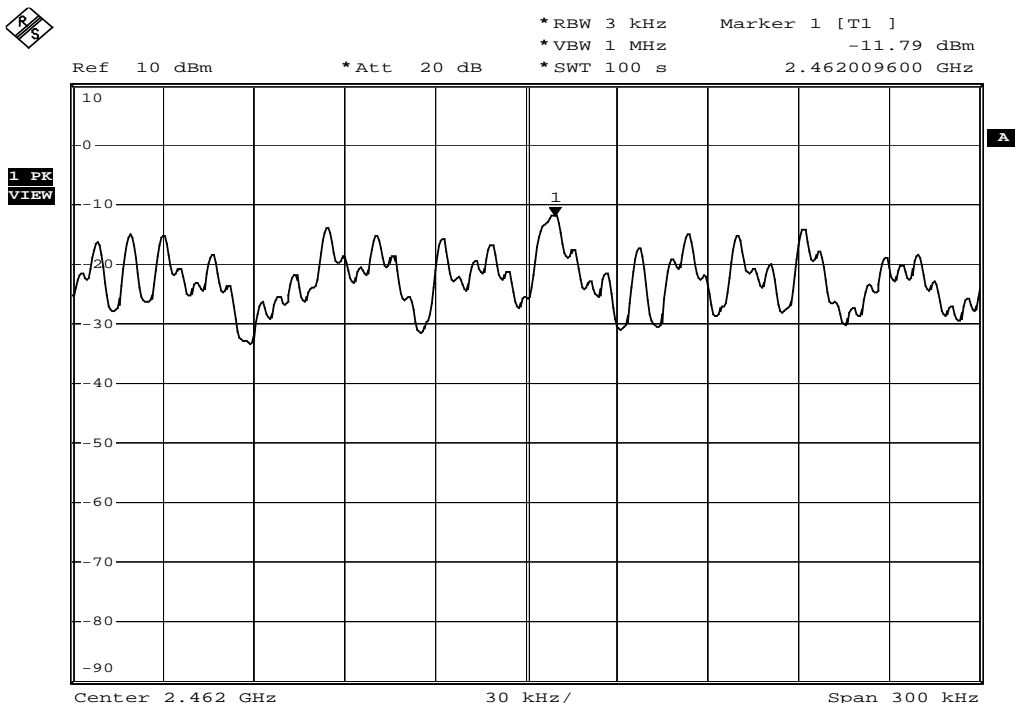
Date: 18.OCT.2005 14:02:46

Figure Channel 6:



Date: 18.OCT.2005 14:13:29

Figure Channel 11:

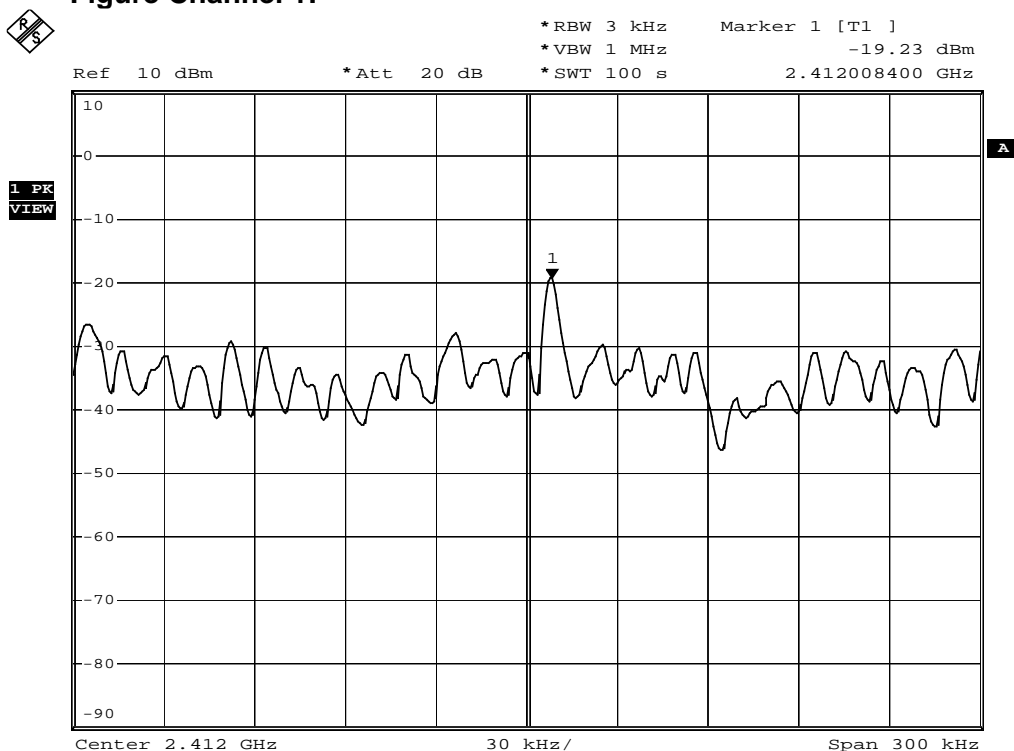


Date: 18.OCT.2005 14:24:23

Date of Test	October 18, 2005	Temperature	24.5 deg/C
EUT	Wireless LAN 11g PCI adapter	Humidity	53%RH
Working Cond.	802.11g	Data Rate	54Mbps

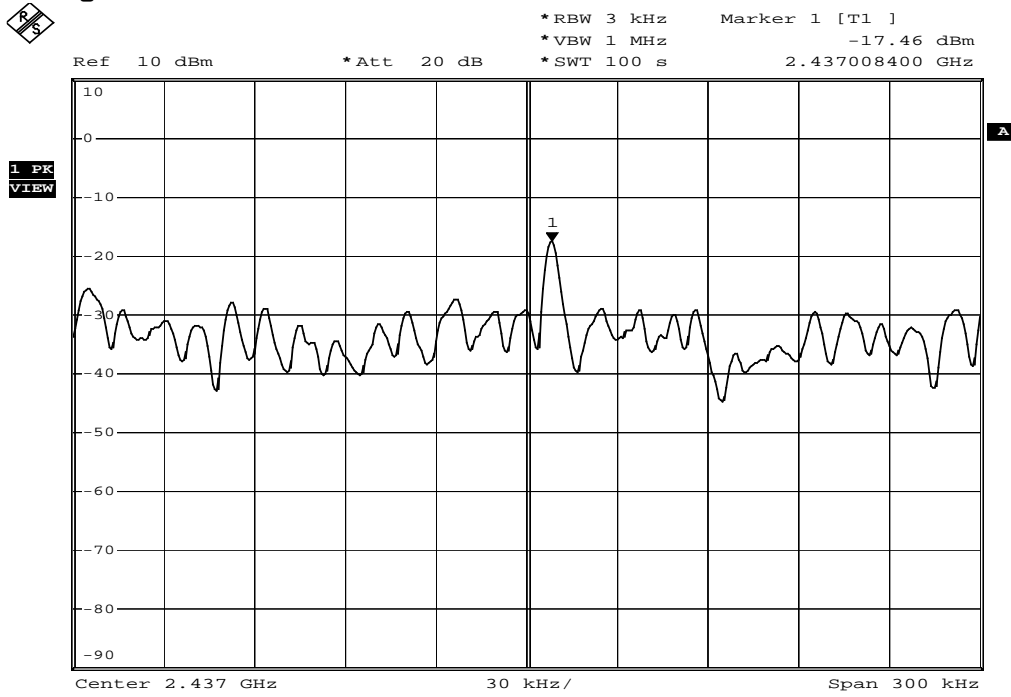
Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required limit (dBm)	Result
1	2412	-19.23	<8dBm	Pass
6	2437	-17.46	<8dBm	Pass
11	2462	-18.01	<8dBm	Pass

Figure Channel 1:



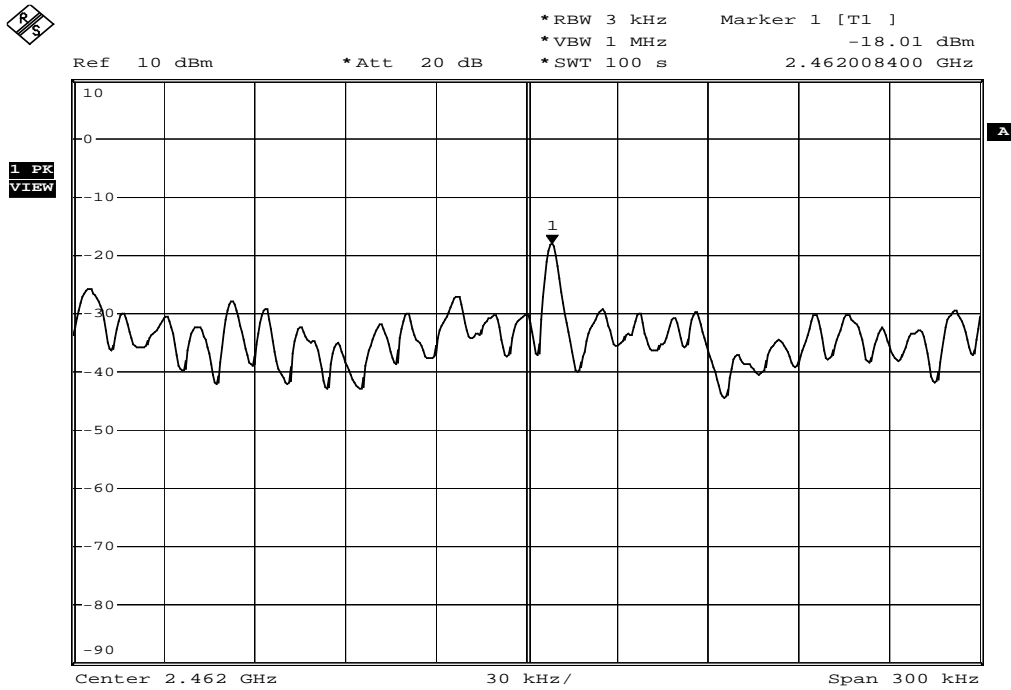
Date: 18.OCT.2005 14:40:44

Figure Channel 6:



Date: 18.OCT.2005 14:51:56

Figure Channel 11:

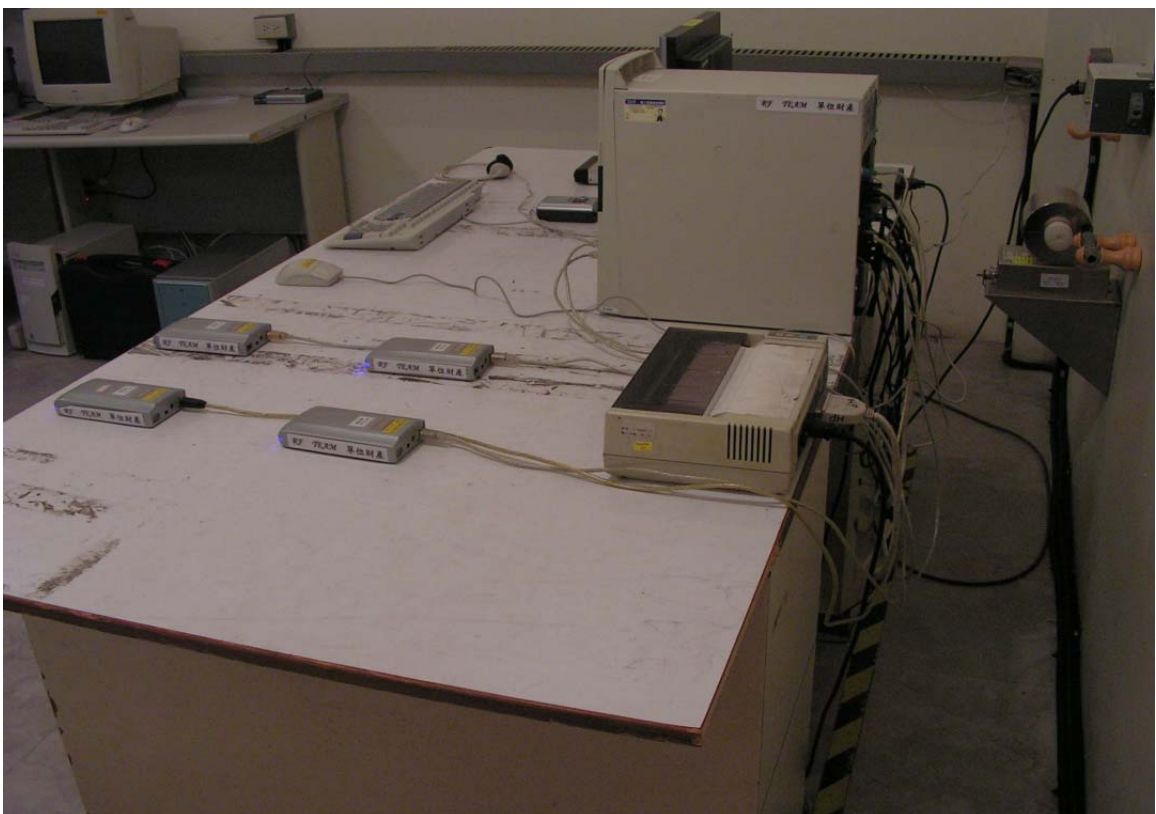


Date: 18.OCT.2005 15:02:05

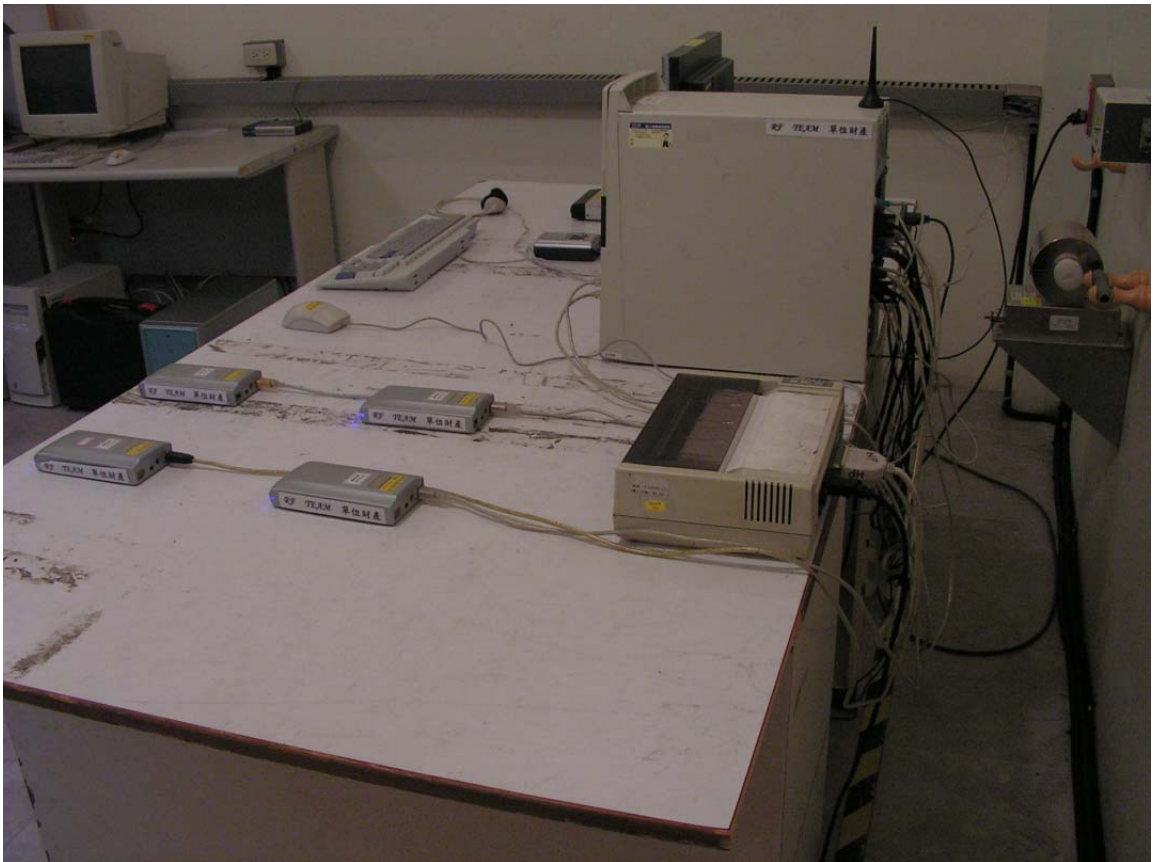
## 9.PHOTOGRAPHS FOR TEST

### 9.1 TEST PHOTOGRAPHS FOR CONDUCTION

5dBi



**2.5dBi**





## 9.2 TEST PHOTOGRAPHS FOR RADIATION

5.0dBi : 30-1000MHz





**2.5dBi : 30-1000MHz**





**5.0dBi : Above 1GHz**





**2.5dBi : Above 1GHz**



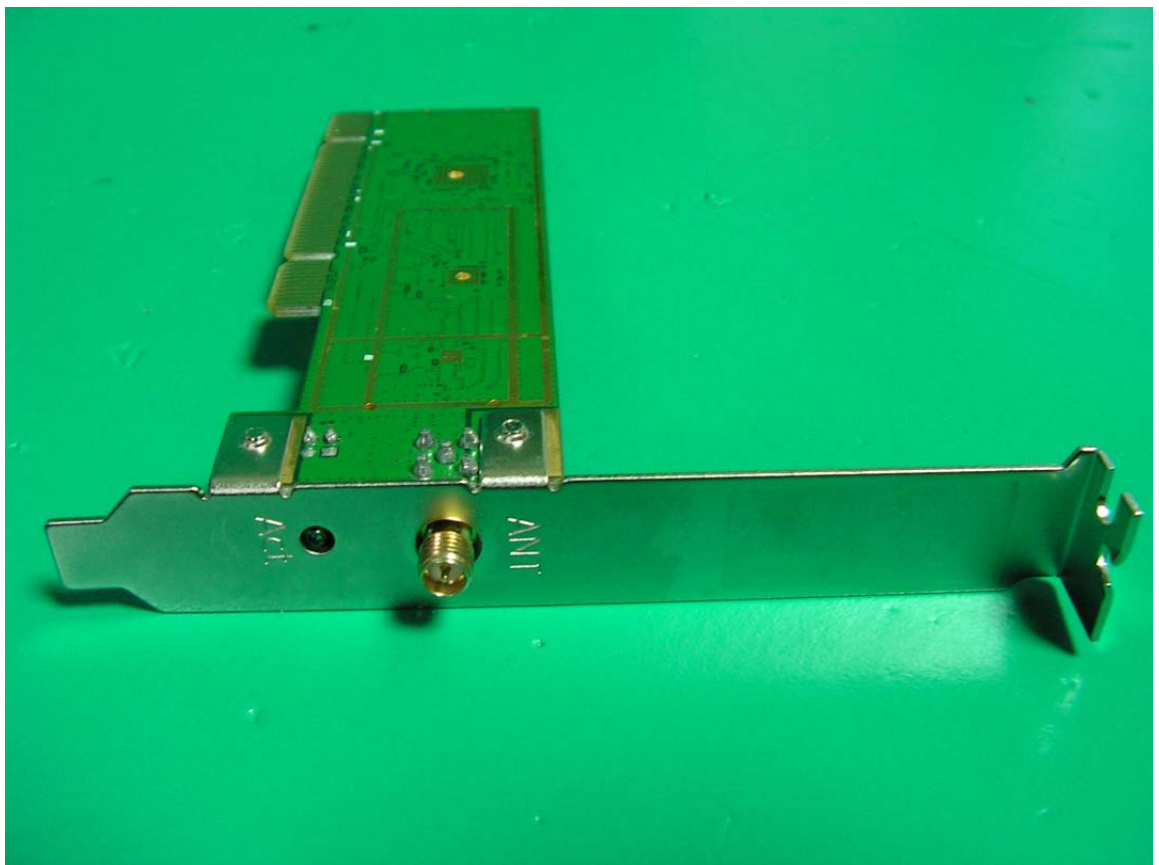
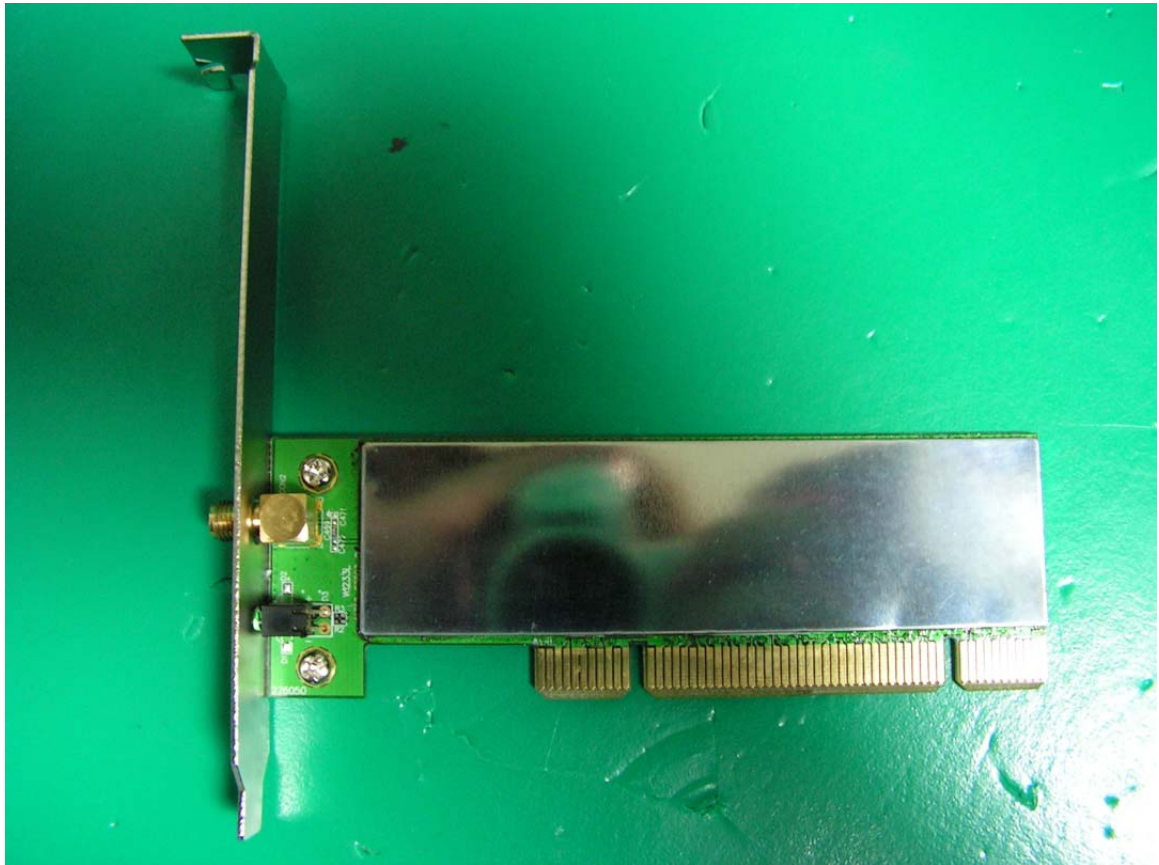
## 10. PHOTOGRAPHS FOR PRODUCT

1. Front View Of Wireless LAN 11g PCI adapter (EUT)
2. ANT

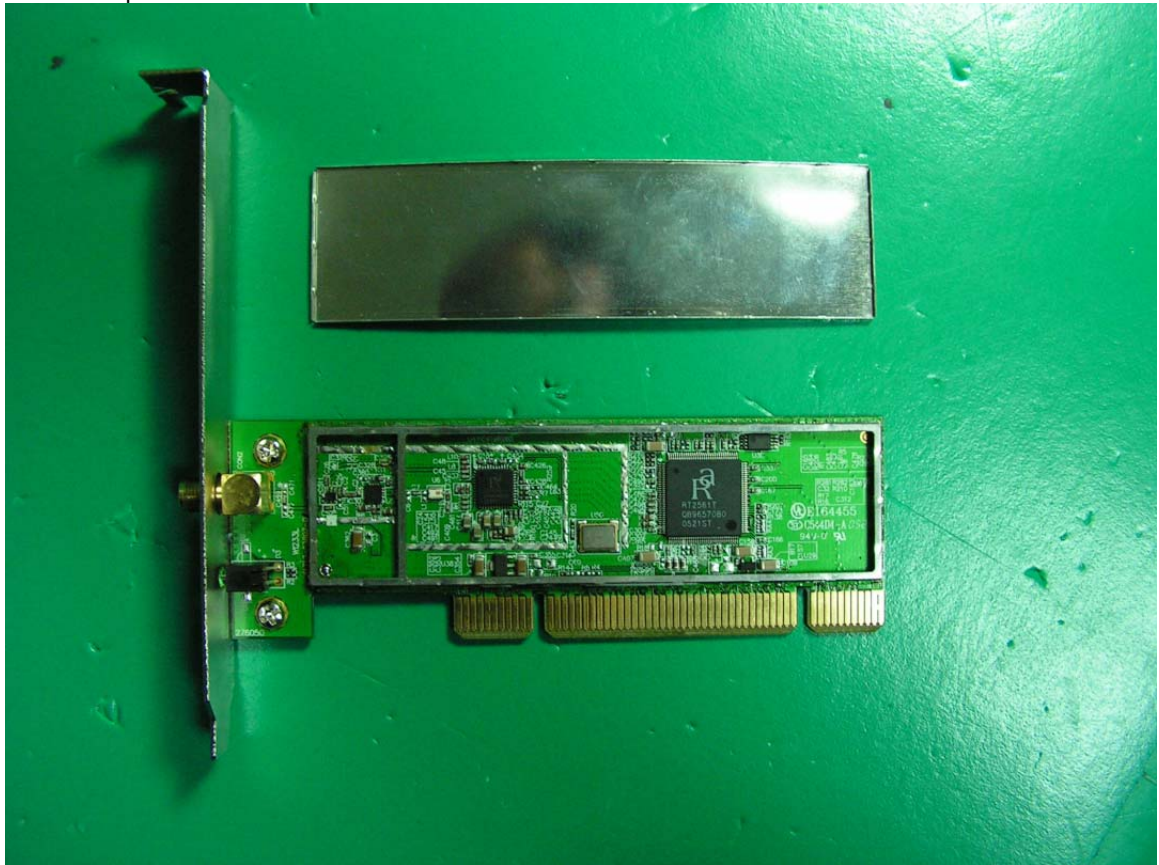




- 3. Front Side
- 4. Connector



- 5. Cover Remove
- 6. Main Chipset-1

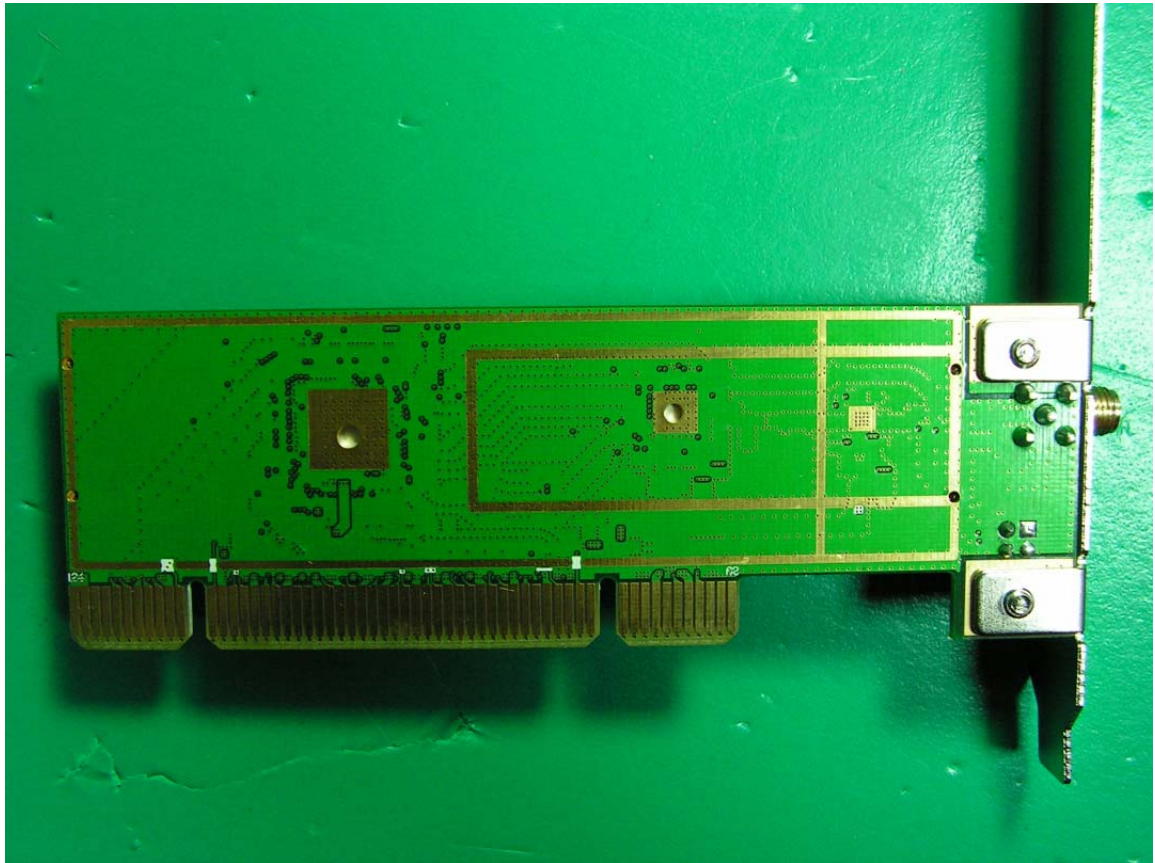








- 9. Rear Side
- 10. Label Here



## 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)