



# Test Report

Product Name	Notebook
Model No.	MS-1718,L730,MS-17188,MS-17188B,MS-1717, MS-17172,MS-17172B,MS-171772,MS-171772B, MS-1717X,L735,L735X
FCC ID	I4L-MS6855C7

Applicant	MICRO-STAR INTL Co., LTD.
Address	No. 69, Li-De St., Jung-He City, Taipei Hsien, Taiwan, R.O.C.

Date of Receipt	May 15, 2007
Issued Date	June 06, 2007
Report No.	075L097-RFUSP05V01

The test results relate only to the samples tested.  
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# Test Report Certification

Issued Date: June 06, 2007

Report No.: 075L097-RFUSP05V01



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

Product Name	Notebook
Applicant	MICRO-STAR INTL Co., LTD.
Address	No. 69, Li-De St., Jung-He City, Taipei Hsien, Taiwan, R.O.C.
Manufacturer	MICRO-STAR INTL Co., LTD.
Model No.	MS-1718,L730,MS-17188,MS-17188B,MS-1717,MS-17172,MS-17172B,MS-171772,MS-171772B,MS-1717X,L735,L735X
Rated Voltage	AC 120V/60Hz
Working Voltage	DC 3.3V
Trade Name	MSI
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2006 ANSI C63.4: 2003
Test Result	Complied



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Documented By : Rita Huang  
( Engineering Adm. Specialist / Rita Huang )



Tested By : Dino Chen  
( Engineer / Dino Chen )



Approved By : Gene Chang  
( President / Gene Chang )

0914

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

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Notebook
Trade Name	MSI
Model No.	MS-1718,L730,MS-17188,MS-17188B,MS-1717,MS-17172,MS-17172B,MS-171772,MS-171772B,MS-1717X,L735,L735X
FCC ID.	I4L-MS6855C7
Frequency Range	2412 – 2462MHz
Number of Channels	11
Data Speed	IEEE 802.11b – 1, 2, 5.5, 11Mbps IEEE 802.11g – 6, 9, 12, 18, 24, 36 48, 54Mbps
Type of Modulation	DSSS/ OFDM
Antenna Type	Connector
Antenna Gain	Refer to the table “Antenna List”
Channel Control	Auto
Power Adapter	MFR: LI SHIN, M/N: LSE0202C1990 Cable Out: Non-Shielded, 1.8m with one ferrite core bonded. Power Cord: Shielded, 1.8m

#### Antenna List

No.	Manufacturer	Part No.	Antenna type	Peak Gain
1	HIGH-TEK	S79-1800300-H39 (Main) S79-1800310-H39 (Aux)	PIFA	1.18dBi for 2.4 GHz
2	YAGEO	CAN4313582022501B (Main) CAN4313582012501B (Aux)	PIFA	-0.98dBi for 2.4 GHz
3	VOS	S79-1800360-V03 (R) S79-1800370-V03 (L)	PIFA	-0.95dBi for 2.4 GHz
4	HIGH-TEK	S79-1800240-H39 (Main) S79-1800230-H39 (Aux)	PIFA	0.17dBi for 2.4 GHz
5	HIGH-TEK	S79-1800260-H39 (Main) S79-1800270-H39 (Aux)	PIFA	-0.87dBi for 2.4 GHz

#### Frequency of Each Channel:

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

Note:

1. The EUT is a Notebook with a built-in 2.4GHz WLAN transceiver.
2. The EUT is including twelve models for different marketing requirement.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 11Mbps and 802.11g is 54Mbps)
5. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices
6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

## 1.2. Operational Description

The EUT is a Notebook with a built-in 2.4GHz transceiver. There are 11 channels in 2412 – 2462MHz. The channels are separated by 5MHz. This device supports the data rates of 1, 2, 5.5, 11Mbps in 802.11b mode and 6, 9, 12, 18, 24, 36, 48, 54Mbps in 802.11g mode. The signals are modulated by DSSS in 802.11b mode and OFDM in 802.11g mode. The antenna type is PIFA.

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

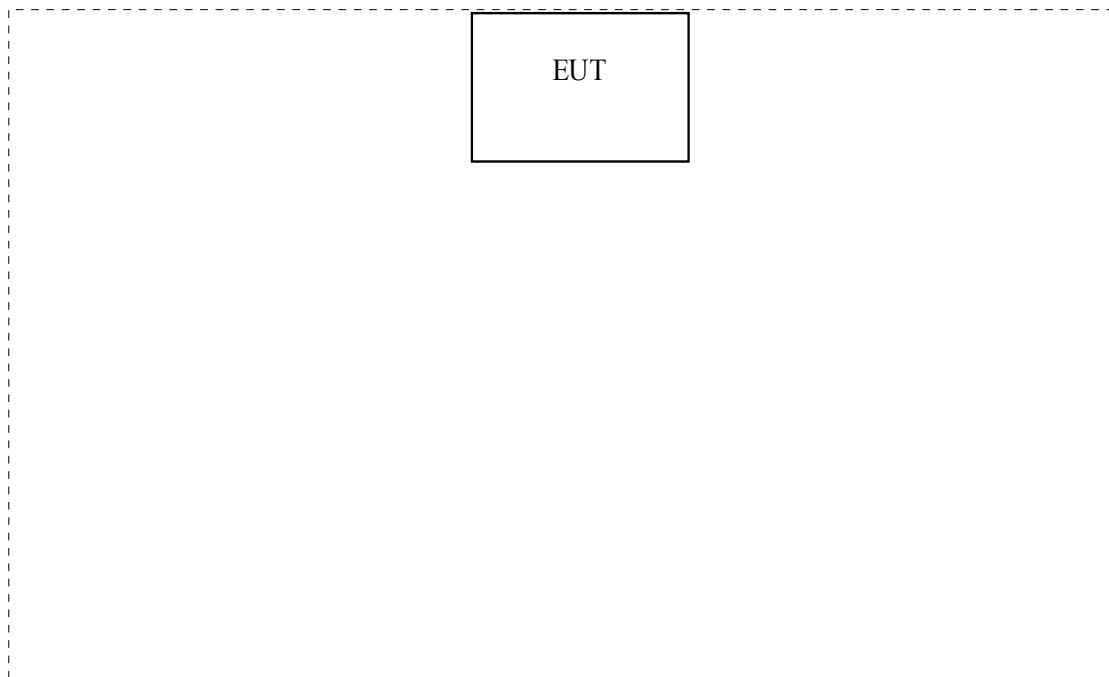
### 1.3. Tested System Details

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

	Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1.	N/A	N/A	N/A	N/A	N/A	N/A

	Signal Cable Type	Signal cable Description
A.	N/A	N/A

### 1.4. Configuration of Test System



### 1.5. EUT Exercise Software

- 1 Setup the EUT and simulators as shown on 1.4.
- 2 Turn on the power of all equipment.
- 3 Messages will be transmitted and received through EUT.
- 4 Test is based on the mandatory continuous transmitter.
- 5 Repeat the above procedure (3) to (4).

**1.6. Test Facility**

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

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



Accreditation on NVLAP  
 NVLAP Lab Code: 200533-0



Site Name: Quietek Corporation  
 Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,  
 Lin-Kou Shiang, Taipei,  
 Taiwan, R.O.C.  
 TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789  
 E-Mail : [service@quietek.com](mailto:service@quietek.com)



FCC Accreditation Number: TW1014



## 2. Conducted Emission

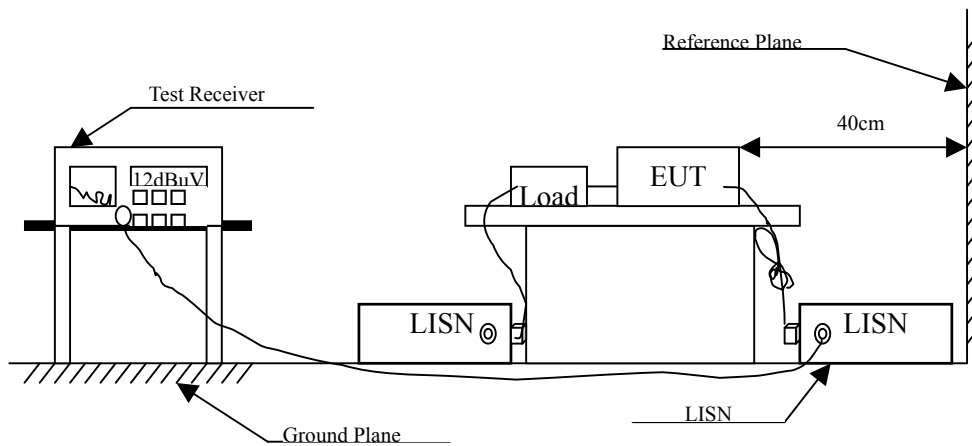
### 2.1. Test Equipment

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

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2007	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2007	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2007	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2007	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

### 2.2. Test Setup



### 2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56 <sup>(註)</sup>	56-46 <sup>(註)</sup>
0.50-5.0	56	46
5.0 - 30	60	50

## 2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

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

## 2.5. Uncertainty

± 2.26 dB

## 2.6. Test Result of Conducted Emission

Product : Notebook  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.193	0.202	49.410	49.612	-15.159	64.771
0.322	0.214	44.590	44.804	-16.282	61.086
0.841	0.231	37.340	37.571	-18.429	56.000
1.490	0.260	37.430	37.690	-18.310	56.000
2.459	0.292	37.220	37.512	-18.488	56.000
6.341	0.464	33.480	33.944	-26.056	60.000
<b>Average</b>					
0.193	0.202	49.300	49.502	-5.269	54.771
0.322	0.214	44.530	44.744	-6.342	51.086
0.841	0.231	36.900	37.131	-8.869	46.000
1.490	0.260	35.930	36.190	-9.810	46.000
2.459	0.292	37.040	37.332	-8.668	46.000
6.341	0.464	30.710	31.174	-18.826	50.000

Note:

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

Product : Notebook  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.170	0.202	34.510	34.712	-30.717	65.429
0.388	0.215	37.350	37.565	-21.635	59.200
0.517	0.216	40.160	40.376	-15.624	56.000
1.037	0.234	38.420	38.654	-17.346	56.000
1.943	0.276	38.330	38.606	-17.394	56.000
7.451	0.459	33.040	33.499	-26.501	60.000
<b>Average</b>					
0.170	0.202	19.470	19.672	-35.757	55.429
0.388	0.215	33.830	34.045	-15.155	49.200
0.517	0.216	38.530	38.746	-7.254	46.000
1.037	0.234	38.260	38.494	-7.506	46.000
1.943	0.276	35.400	35.676	-10.324	46.000
7.451	0.459	28.350	28.809	-21.191	50.000

Note:

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

Product : Notebook  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.322	0.214	45.540	45.754	-15.332	61.086
0.517	0.216	41.960	42.176	-13.824	56.000
0.904	0.232	37.980	38.212	-17.788	56.000
1.423	0.248	40.260	40.508	-15.492	56.000
2.134	0.278	39.820	40.098	-15.902	56.000
4.271	0.366	39.310	39.676	-16.324	56.000
<b>Average</b>					
0.322	0.214	45.100	45.314	-5.772	51.086
0.517	0.216	41.020	41.236	-4.764	46.000
0.904	0.232	35.130	35.362	-10.638	46.000
1.423	0.248	39.630	39.878	-6.122	46.000
2.134	0.278	37.730	38.008	-7.992	46.000
4.271	0.366	35.790	36.156	-9.844	46.000

Note:

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

Product : Notebook  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.326	0.214	43.820	44.034	-16.937	60.971
0.775	0.230	36.570	36.800	-19.200	56.000
0.970	0.232	37.060	37.292	-18.708	56.000
1.228	0.246	39.230	39.476	-16.524	56.000
2.134	0.278	39.420	39.698	-16.302	56.000
16.752	0.784	37.280	38.064	-21.936	60.000
<b>Average</b>					
0.326	0.214	43.180	43.394	-7.577	50.971
0.775	0.230	33.000	33.230	-12.770	46.000
0.970	0.232	33.490	33.722	-12.278	46.000
1.228	0.246	38.870	39.116	-6.884	46.000
2.134	0.278	36.540	36.818	-9.182	46.000
16.752	0.784	33.710	34.494	-15.506	50.000

Note:

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

### 3. Peak Power Output

#### 3.1. Test Equipment

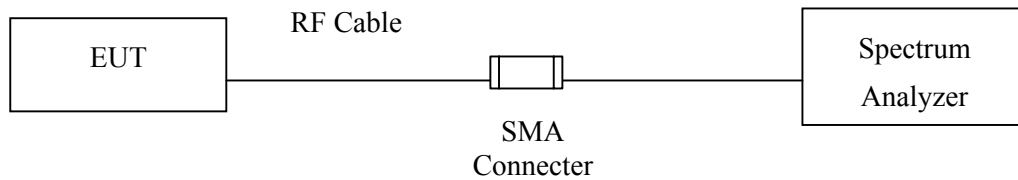
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

Note: 1. All instruments are calibrated every one year.  
 2. The test instruments marked by "X" are used to measure the final test results.

#### 3.2. Test Setup

Conducted Measurement



#### 3.3. Limits

The maximum peak power shall be less 1 Watt.

#### 3.4. Uncertainty

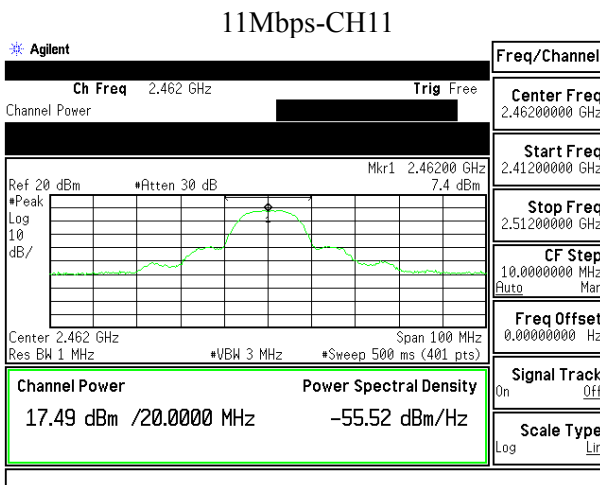
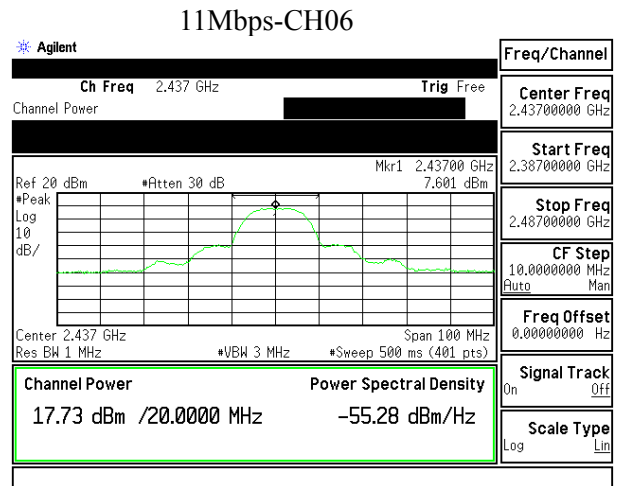
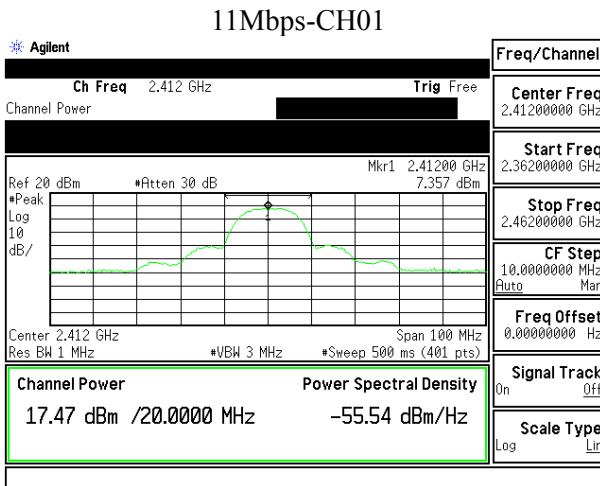
± 1.27 dB

### 3.5. Test Result of Peak Power Output

Product : Notebook  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1

#### Data Speed: 11Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	17.47dBm	1 Watt= 30 dBm	Pass
6	2437.00	17.73dBm	1 Watt= 30 dBm	Pass
11	2462.00	17.49dBm	1 Watt= 30 dBm	Pass



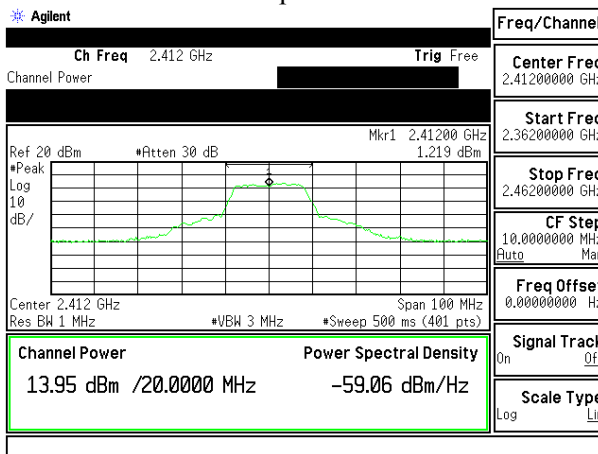


Product : Notebook  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna 1

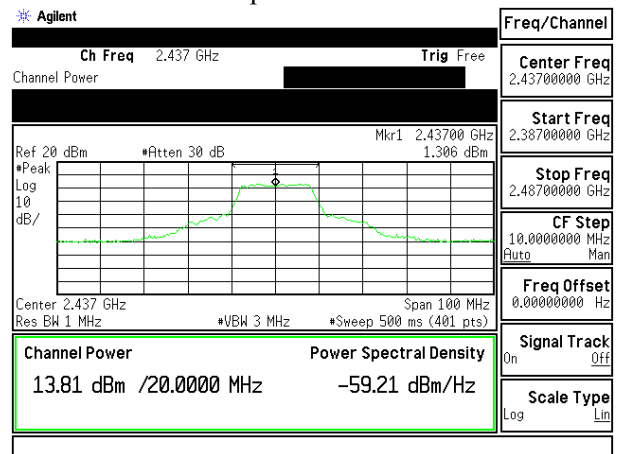
**Data Speed: 54Mbps**

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	13.95dBm	1 Watt= 30 dBm	Pass
6	2437.00	13.81dBm	1 Watt= 30 dBm	Pass
11	2462.00	13.39dBm	1 Watt= 30 dBm	Pass

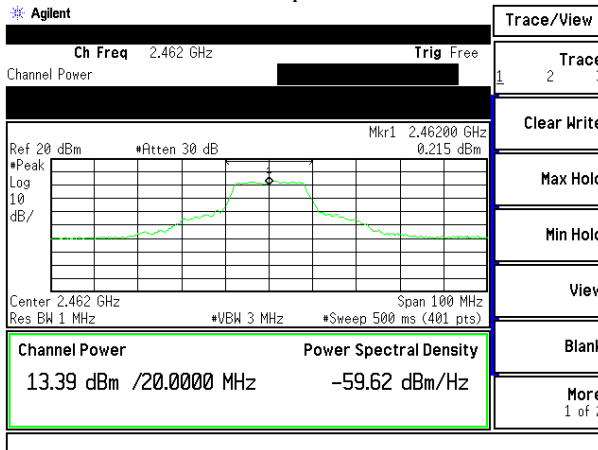
54Mbps-CH01



54Mbps-CH06



54Mbps-CH11



## 4. Radiated Emission

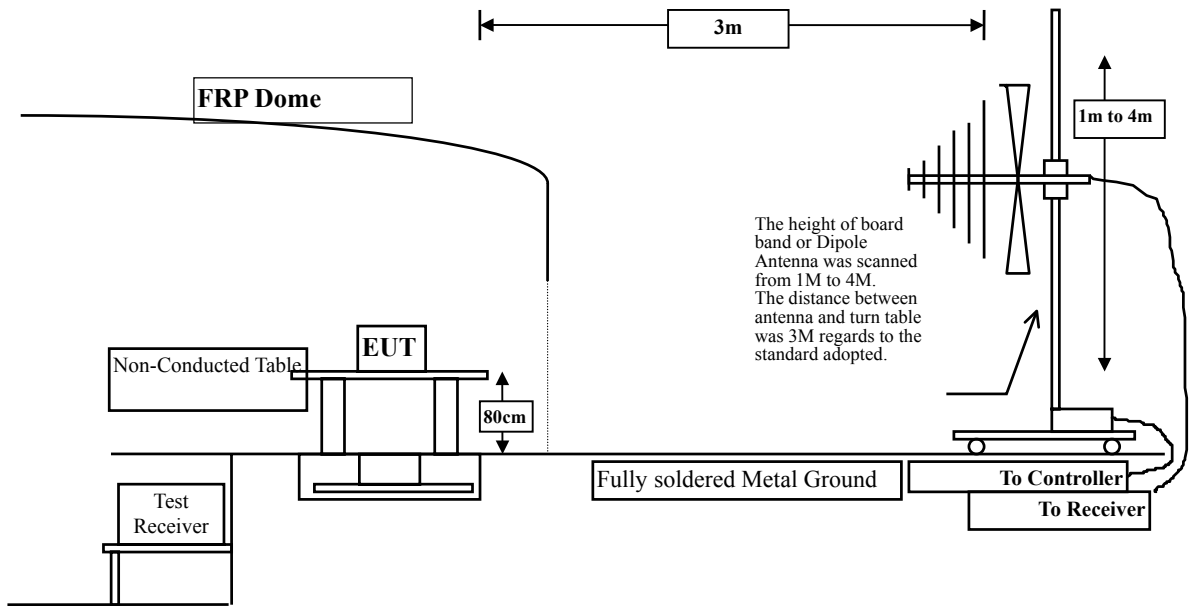
### 4.1. Test Equipment

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

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2007
	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2007
	Pre-Amplifier	HP	8447D/3307A01812	May, 2007
	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2006
	Horn Antenna	EM	EM6917 / 103325	May, 2007
Site # 2	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2007
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2007
	Pre-Amplifier	HP	8447D/3307A01814	May, 2007
	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
	Horn Antenna	EM	EM6917 / 103325	May, 2007
Site # 3	X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
	X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007
	X Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
	X Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2006
	X Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2006
	X Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2006
	X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
X Pre-Amplifier	HP	8449B / 3008A01123	July, 2006	

- Note:
1. All instruments are calibrated every one year.
  2. The test instruments marked by "X" are used to measure the final test results.

### 4.2. Test Setup



### 4.3. Limits

#### ➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

#### 4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

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

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The frequency range from 30MHz to 10th harmonics is checked.

#### 4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

#### 4.6. Test Result of Radiated Emission

Product : Notebook  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4824.000	3.723	41.521	45.244	-28.756	74.000
7236.000	9.439	32.625	42.063	-31.937	74.000
9648.000	11.829	31.149	42.978	-31.022	74.000
<b>Average Detector:</b>					
--					
<b>Vertical</b>					
<b>Peak Detector:</b>					
4824.000	3.723	37.952	41.675	-32.325	74.000
7236.000	9.439	32.141	41.579	-32.421	74.000
9648.000	11.829	32.447	44.276	-29.724	74.000
<b>Average Detector:</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Notebook  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4874.000	3.893	44.351	48.243	-25.757	74.000
7311.000	9.624	32.317	41.941	-32.059	74.000
9748.000	11.805	31.727	43.533	-30.467	74.000
<b>Average Detector:</b>					
--					
<b>Vertical</b>					
<b>Peak Detector:</b>					
4874.000	3.893	40.804	44.696	-29.304	74.000
7311.000	9.624	32.538	42.162	-31.838	74.000
9748.000	11.805	31.978	43.784	-30.216	74.000
<b>Average Detector:</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz ◦
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz ◦
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Notebook  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level	dB	dBuV/m
	dB	dBuV	dBuV/m		
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4924.000	4.075	42.712	46.786	-27.214	74.000
7386.000	9.812	32.656	42.468	-31.532	74.000
9848.000	11.819	32.218	44.037	-29.963	74.000
<b>Average</b>					
<b>Detector:</b>					
--					
<b>Vertical</b>					
<b>Peak Detector:</b>					
4924.000	4.075	40.357	44.431	-29.569	74.000
7386.000	9.812	32.762	42.574	-31.426	74.000
9848.000	11.819	32.259	44.078	-29.922	74.000
<b>Average</b>					
<b>Detector:</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz ◦
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz ◦
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Notebook  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna1 (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4824.000	3.723	35.885	39.608	-34.392	74.000
7236.000	9.439	32.477	41.915	-32.085	74.000
9648.000	11.829	32.344	44.173	-29.827	74.000
<b>Average Detector:</b>					
--					
<b>Vertical</b>					
<b>Peak Detector:</b>					
4824.000	3.723	34.653	38.376	-35.624	74.000
7236.000	9.439	32.806	42.244	-31.756	74.000
9648.000	11.829	33.540	45.369	-28.631	74.000
<b>Average Detector:</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.



Product : Notebook  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna 1 (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4874.000	3.893	36.890	40.782	-33.218	74.000
7311.000	9.624	33.067	42.691	-31.309	74.000
9748.000	11.805	32.880	44.686	-29.314	74.000
<b>Average Detector:</b>					
--					
<b>Vertical</b>					
<b>Peak Detector:</b>					
4874.000	3.893	35.661	39.553	-34.447	74.000
7311.000	9.624	33.382	43.006	-30.994	74.000
9748.000	11.805	31.487	43.293	-30.707	74.000
<b>Average Detector:</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Notebook  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna1 (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4924.000	4.075	36.303	40.377	-33.623	74.000
7386.000	9.812	32.632	42.444	-31.556	74.000
9848.000	11.819	32.704	44.523	-29.477	74.000
<b>Average Detector:</b>					
--					
<b>Vertical</b>					
<b>Peak Detector:</b>					
4924.000	4.075	35.449	39.523	-34.477	74.000
7386.000	9.812	32.693	42.505	-31.495	74.000
9848.000	11.819	31.841	43.660	-30.340	74.000
<b>Average Detector:</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Notebook  
 Test Item : General Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
168.225	10.202	25.042	35.244	-8.256	43.500
335.550	14.410	21.841	36.251	-9.749	46.000
478.625	18.930	16.884	35.814	-10.186	46.000
541.675	19.732	19.482	39.214	-6.786	46.000
859.350	22.396	15.105	37.501	-8.499	46.000
927.250	23.115	15.249	38.364	-7.636	46.000
<b>Vertical</b>					
143.975	11.111	27.008	38.119	-5.381	43.500
236.125	11.806	27.882	39.688	-6.312	46.000
478.625	18.643	13.475	32.118	-13.882	46.000
590.175	21.876	15.753	37.629	-8.371	46.000
803.575	21.793	16.347	38.140	-7.860	46.000
900.575	23.649	10.352	34.001	-11.999	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

Product : Notebook  
 Test Item : General Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna1 (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
143.975	11.972	22.297	34.269	-9.231	43.500
190.050	9.450	26.801	36.251	-7.249	43.500
369.500	15.723	19.102	34.825	-11.175	46.000
500.450	18.352	16.668	35.020	-10.980	46.000
900.575	22.049	14.174	36.223	-9.777	46.000
963.625	23.223	14.469	37.692	-16.308	54.000
<b>Vertical</b>					
168.225	9.724	25.747	35.471	-8.029	43.500
328.275	14.179	22.065	36.244	-9.756	46.000
527.125	18.888	15.440	34.328	-11.672	46.000
662.925	19.993	18.654	38.647	-7.353	46.000
859.350	21.835	11.369	33.204	-12.796	46.000
927.250	24.215	12.036	36.251	-9.749	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

## 5. Band Edge

### 5.1. Test Equipment

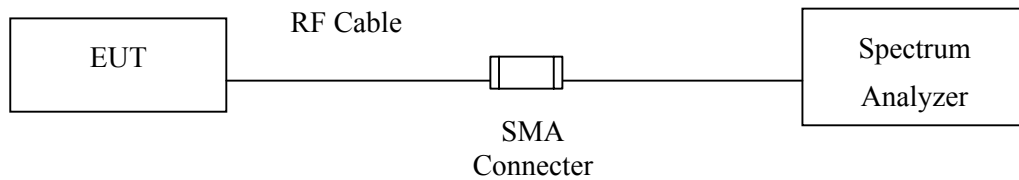
The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007
X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
X	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2006
X	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2006
X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2006
X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
X	Pre-Amplifier	HP	8449B / 3008A01123	July, 2006

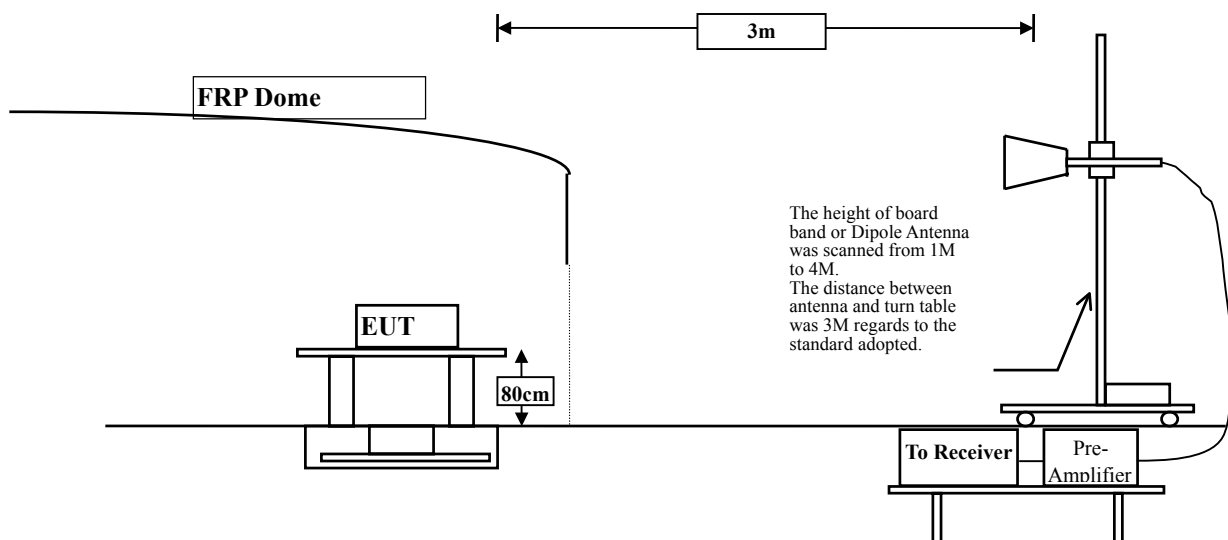
- Note:
1. All instruments are calibrated every one year.
  2. The test instruments marked by "X" are used to measure the final test results.

### 5.2. Test Setup

#### RF Conducted Measurement:



#### RF Radiated Measurement:



### 5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

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

### 5.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

**5.6. Test Result of Band Edge**

Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1

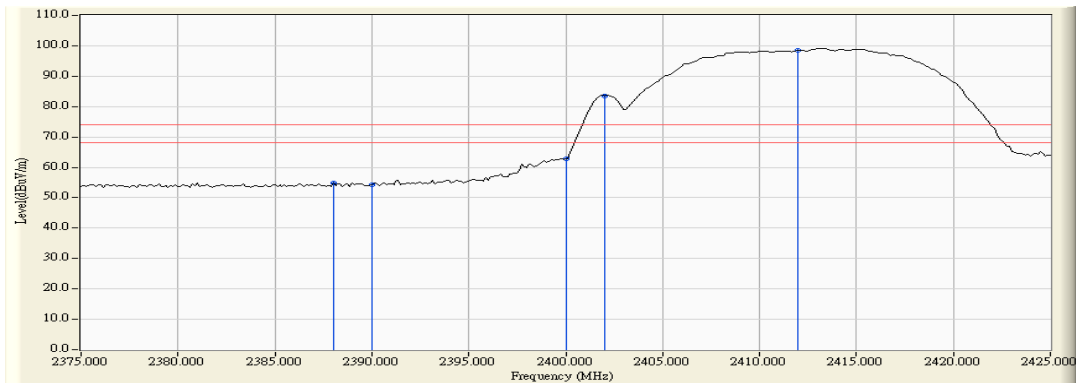
**RF Radiated Measurement:**

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

**RF Radiated Measurement (Horizontal):**

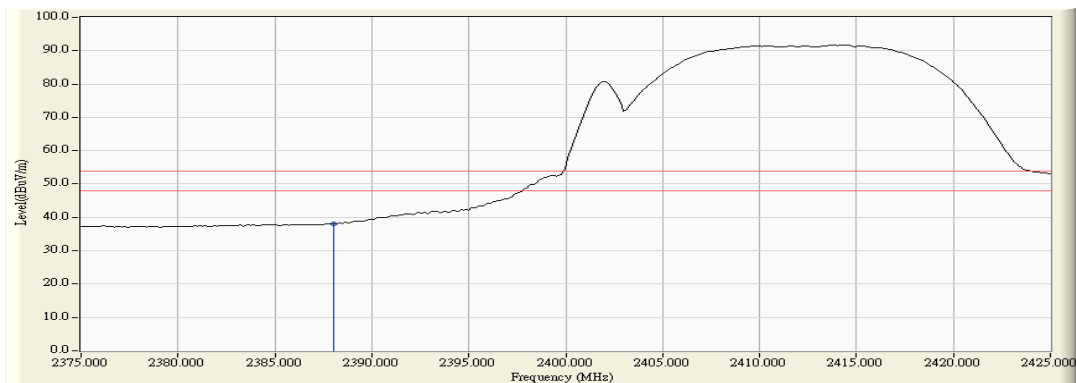
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2388.000	-2.386	57.359	54.972	74.00	54.00	Pass
1 (Average)	2388.000	-2.386	40.469	38.082	74.00	54.00	Pass

**Figure Channel 1: Horizontal (Peak)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

**Figure Channel 1: Horizontal (Average)**



Note:  
 RBW=1MHz, VBW=300Hz, Sweep Time=500ms

Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1

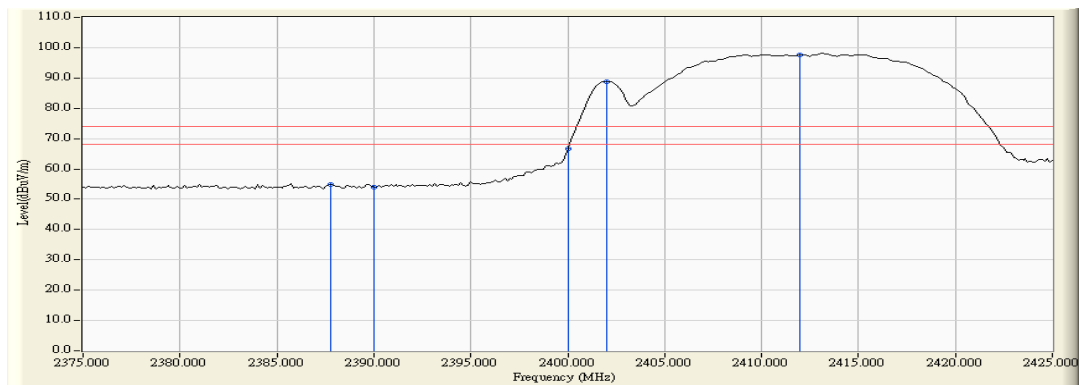
**RF Radiated Measurement:**

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

**RF Radiated Measurement (Vertical):**

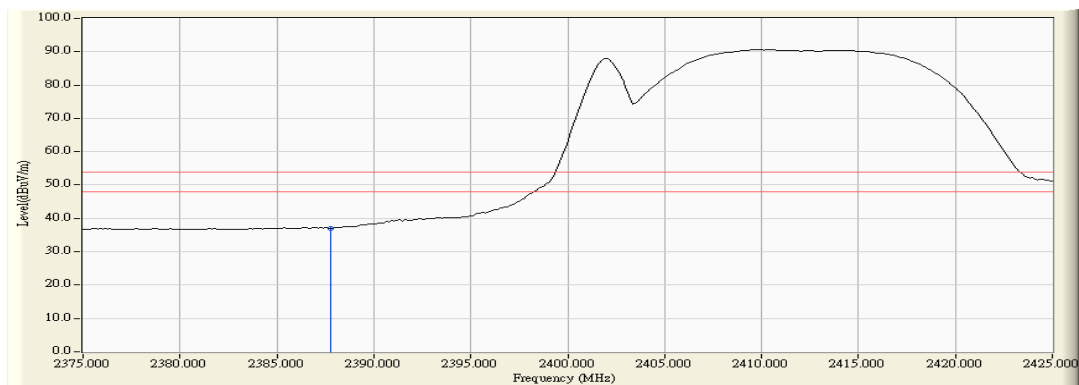
Channel	Frequency (MHz)	Correct Fcator (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2387.750	-2.389	57.255	54.867	74.00	54.00	Pass
1 (Average)	2387.750	-2.389	39.362	36.974	74.00	54.00	Pass

**Figure Channel 1: Vertical (Peak)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

**Figure Channel 1: Vertical (Average)**



Note:  
 RBW=1MHz, VBW=300Hz, Sweep Time=500ms



Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1

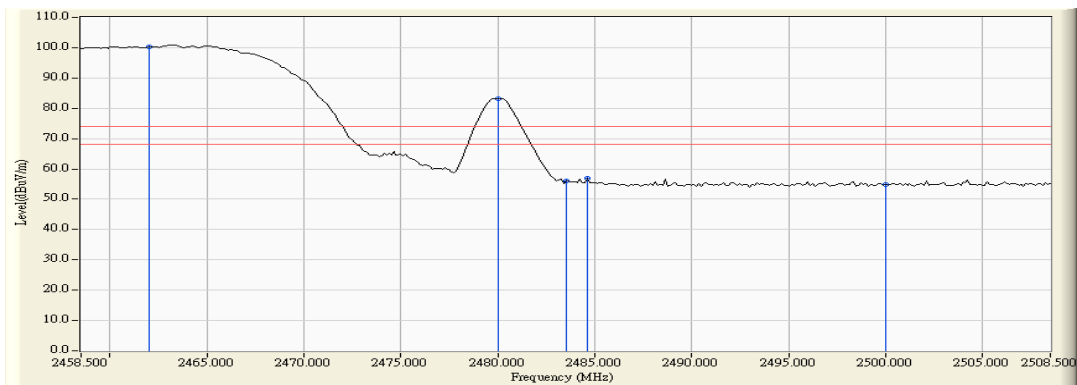
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

**RF Radiated Measurement (Horizontal):**

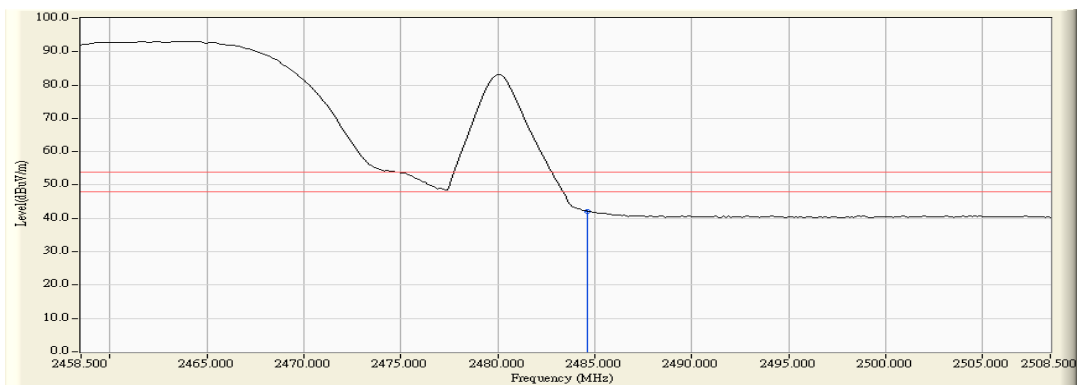
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2484.625	-1.934	58.810	56.877	74.00	54.00	Pass
11(Average)	2484.625	-1.934	44.026	42.093	74.00	54.00	Pass

**Figure Channel 11: Horizontal (Peak)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms

**Figure Channel 11: Horizontal (Average)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms

Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1

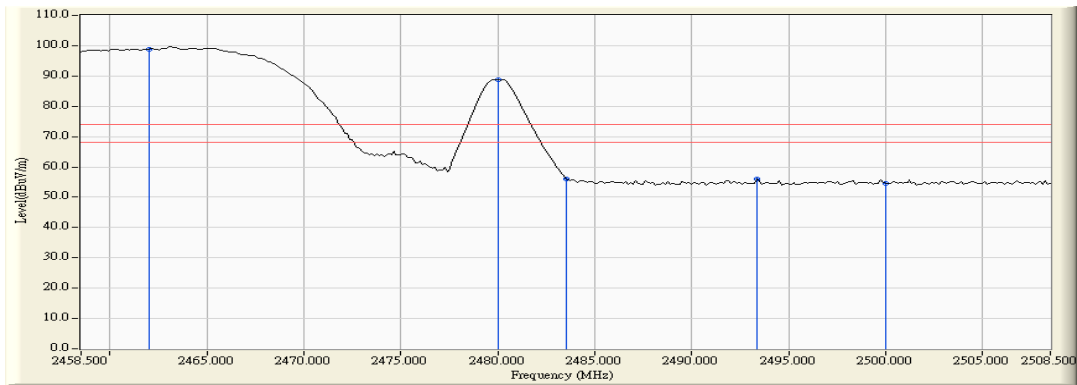
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Vertical)	>2483.5	>20	Pass

**RF Radiated Measurement (Vertical):**

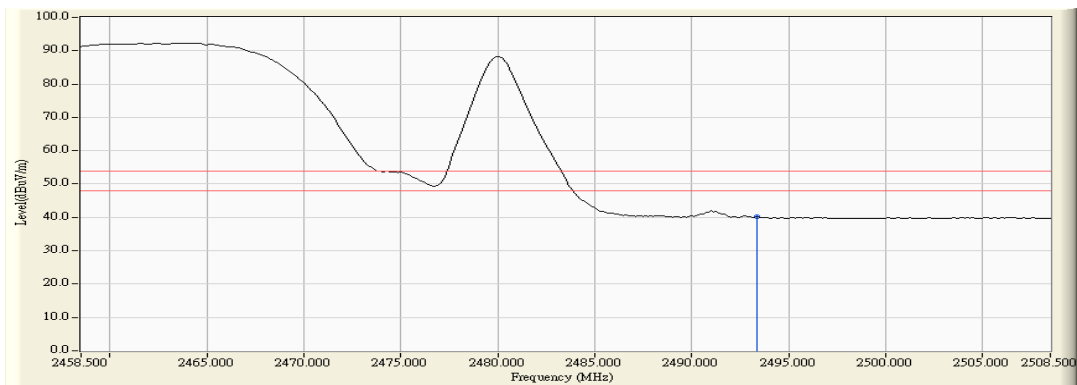
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2493.375	-1.906	57.874	55.968	74.00	54.00	Pass
11(Average)	2493.375	-1.906	42.211	40.305	74.00	54.00	Pass

**Figure Channel 11: (Vertical) (Peak)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

**Figure Channel 11: (Vertical) (Average)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna 1

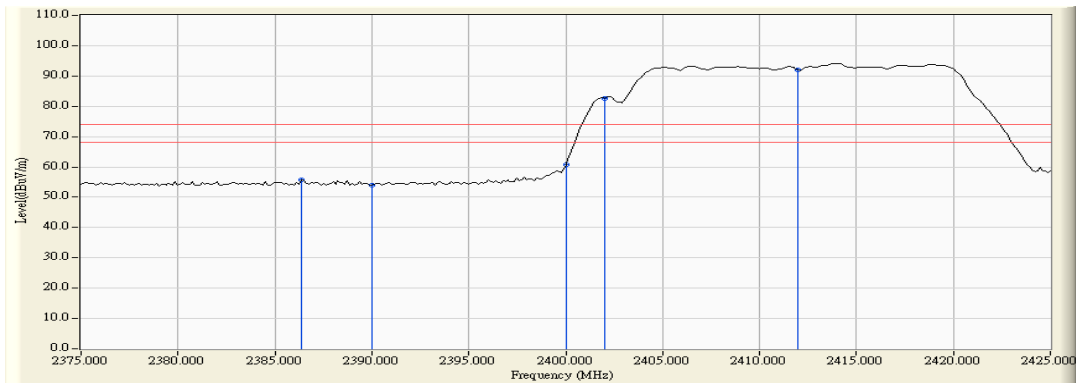
**RF Radiated Measurement:**

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

**RF Radiated Measurement (Horizontal):**

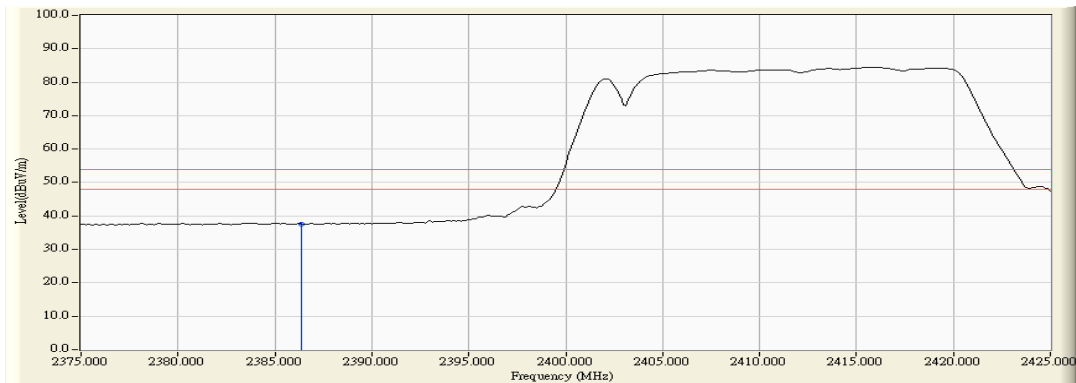
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2386.375	-2.395	58.149	55.754	74.00	54.00	Pass
1 (Average)	2386.375	-2.395	40.013	37.618	74.00	54.00	Pass

**Figure Channel 1: Horizontal (Peak)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

**Figure Channel 1: Horizontal (Average)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna 1

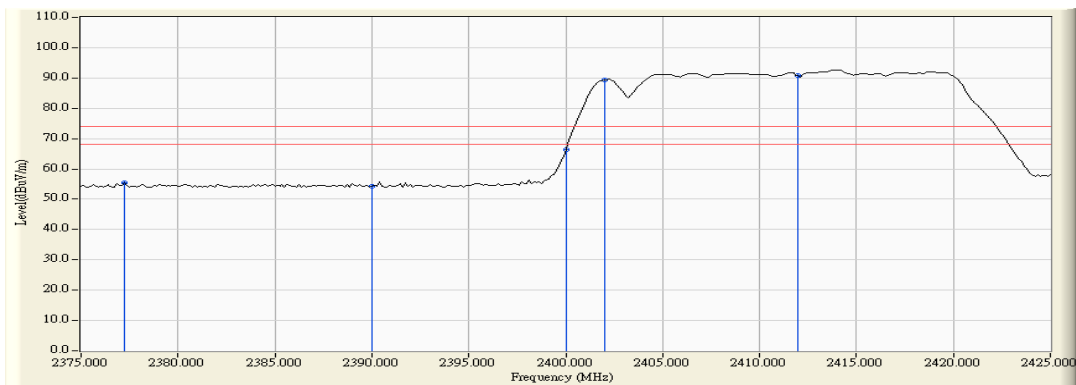
**RF Radiated Measurement:**

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

**RF Radiated Measurement (Vertical):**

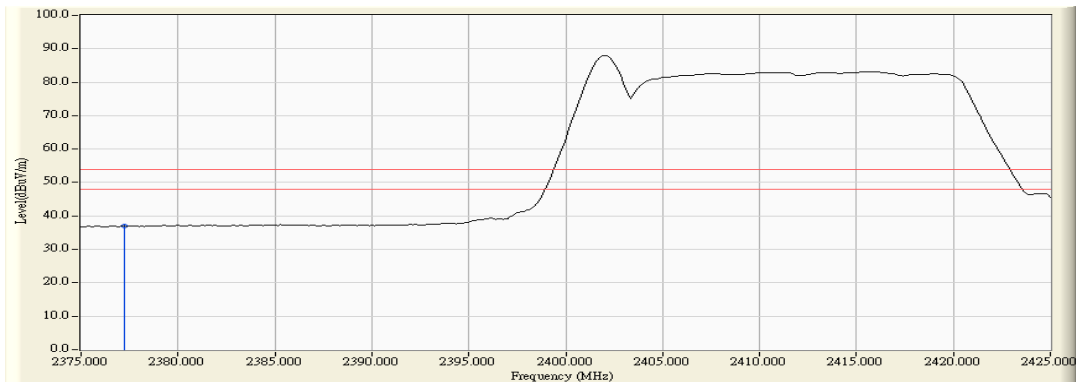
Channel	Frequency (MHz)	Correct Fcator (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2377.250	-2.437	57.868	55.431	74.00	54.00	Pass
1 (Average)	2377.250	-2.437	39.350	36.913	74.00	54.00	Pass

**Figure Channel 1: Vertical (Peak)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

**Figure Channel 1: Vertical (Average)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna 1

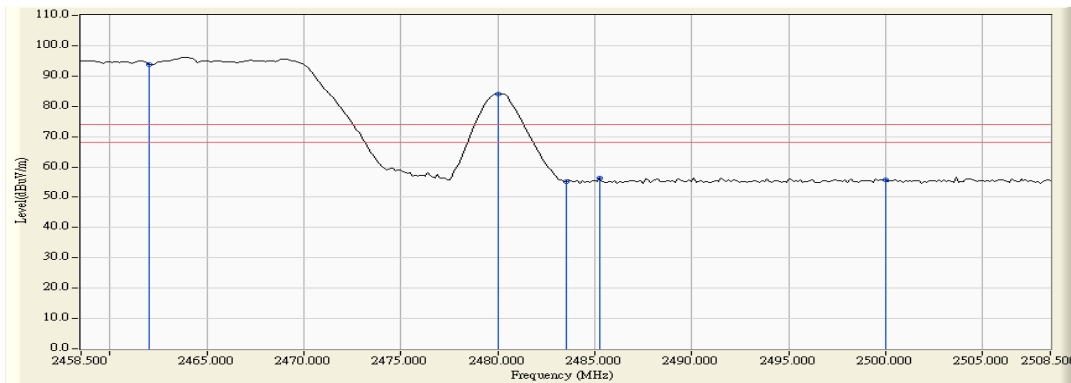
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

**RF Radiated Measurement (Horizontal):**

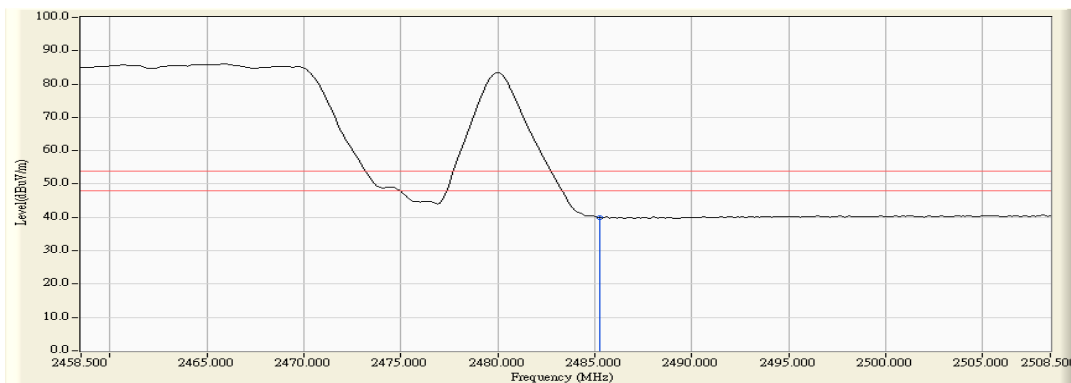
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2485.250	-1.932	58.217	56.285	74.00	54.00	Pass
11(Average)	2485.250	-1.932	41.960	40.028	74.00	54.00	Pass

**Figure Channel 11: Horizontal (Peak)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms

**Figure Channel 11: Horizontal (Average)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms

Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna 1

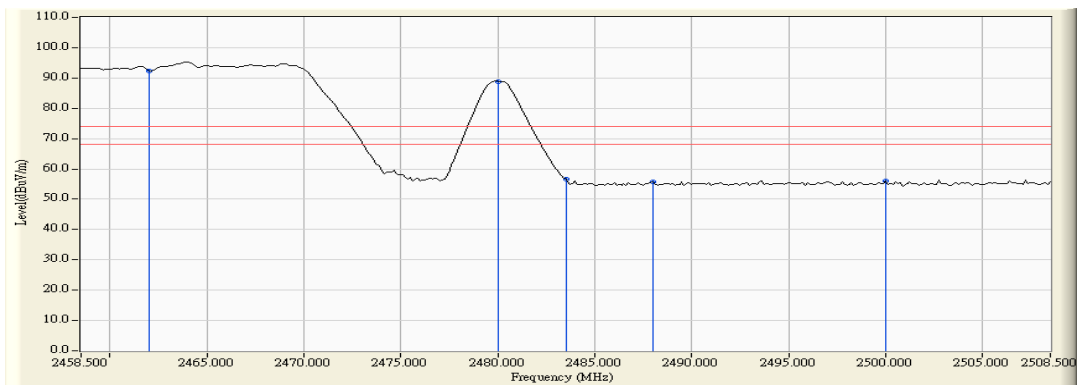
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Vertical)	>2483.5	>20	Pass

**RF Radiated Measurement (Vertical):**

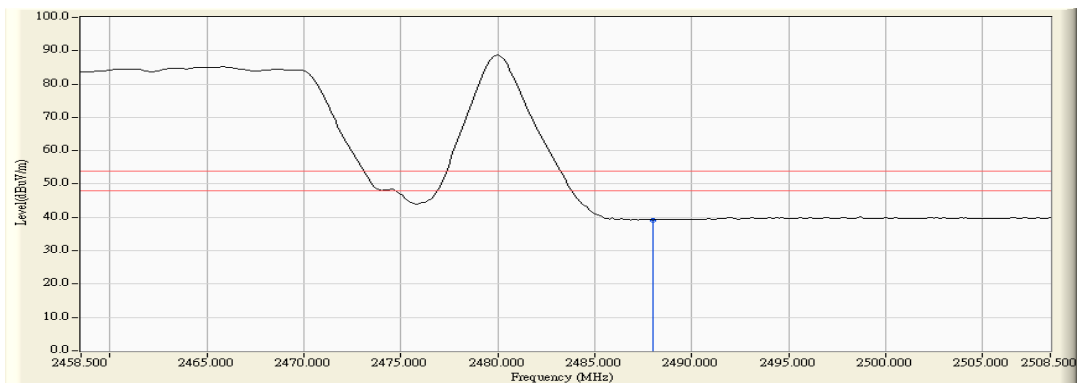
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2488.000	-1.922	57.719	55.796	74.00	54.00	Pass
11(Average)	2488.000	-1.922	41.167	39.244	74.00	54.00	Pass

**Figure Channel 11: (Vertical) (Peak)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

**Figure Channel 11: (Vertical) (Average)**



Note:  
 RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

## 6. Occupied Bandwidth

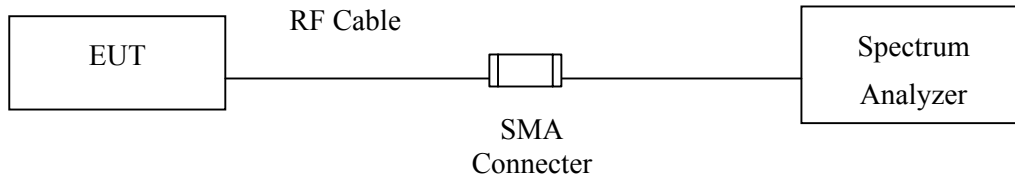
### 6.1. Test Equipment

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

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

- Note:
1. All instruments are calibrated every one year.
  2. The test instruments marked by “X” are used to measure the final test results.

### 6.2. Test Setup



### 6.3. Limits

The minimum bandwidth shall be at least 500kHz.

### 6.4. Uncertainty

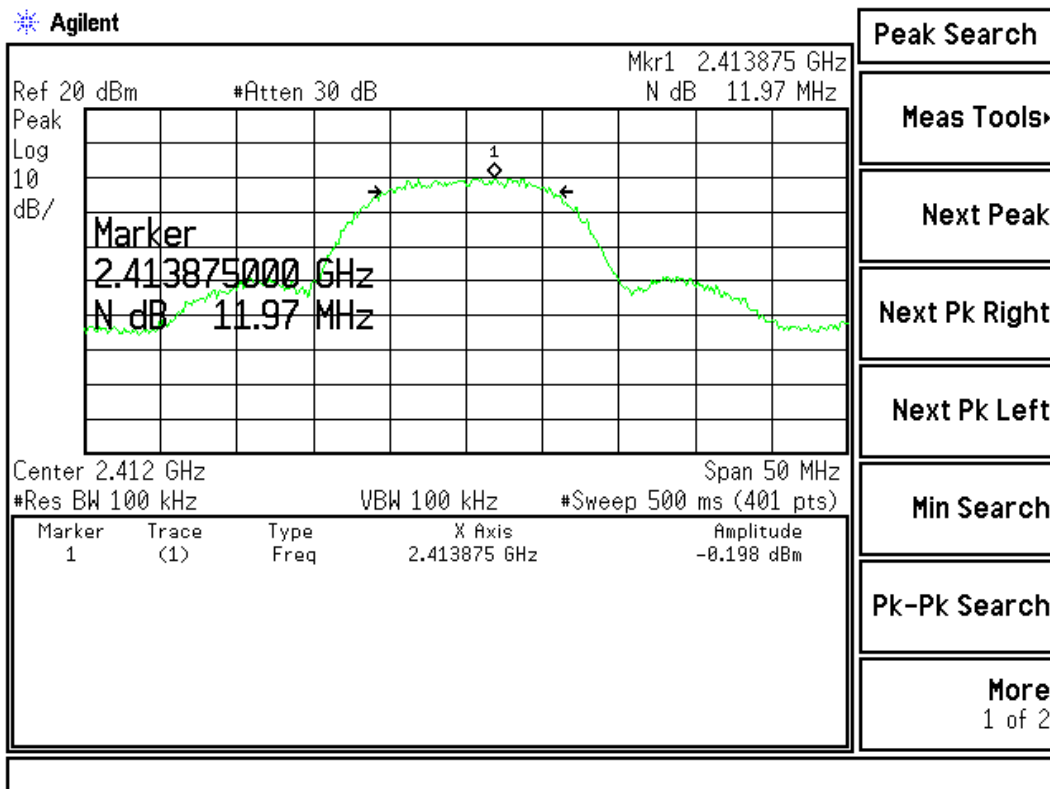
± 150Hz

### 6.5. Test Result of Occupied Bandwidth

Product : Notebook  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (11Mbps)	2412.00	11970	>500	Pass

**Figure Channel 1: 11Mbps**

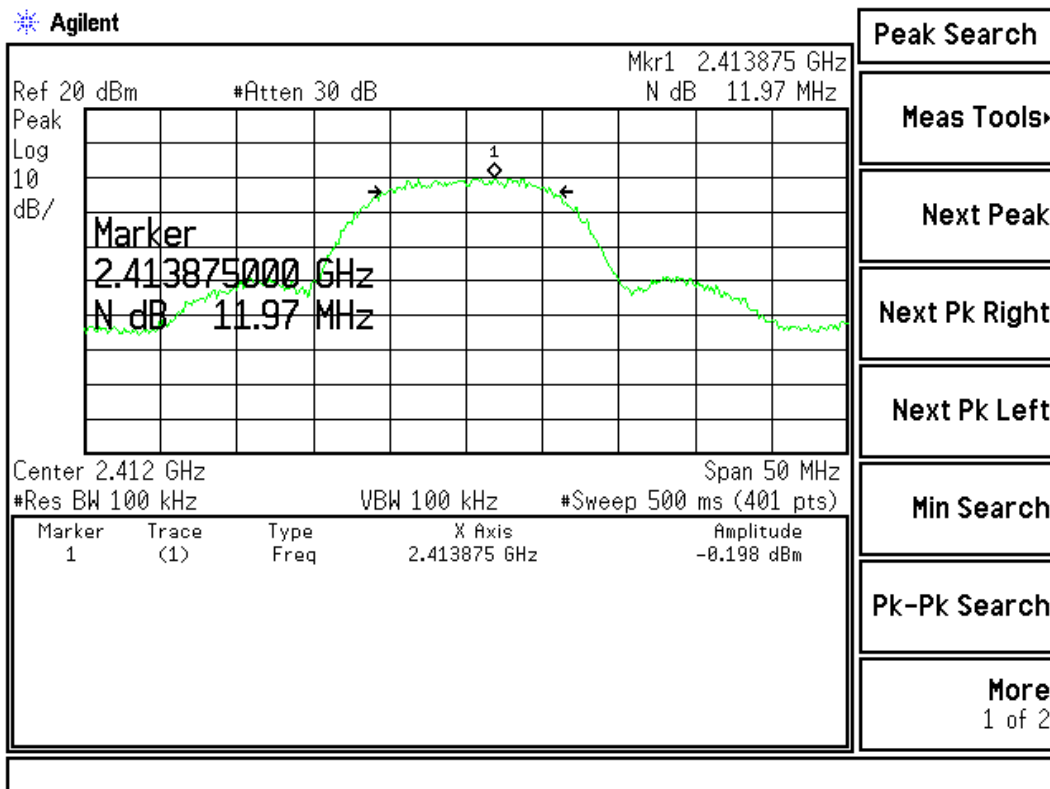




Product : Notebook  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (11Mbps)	2437.00	11970	>500	Pass

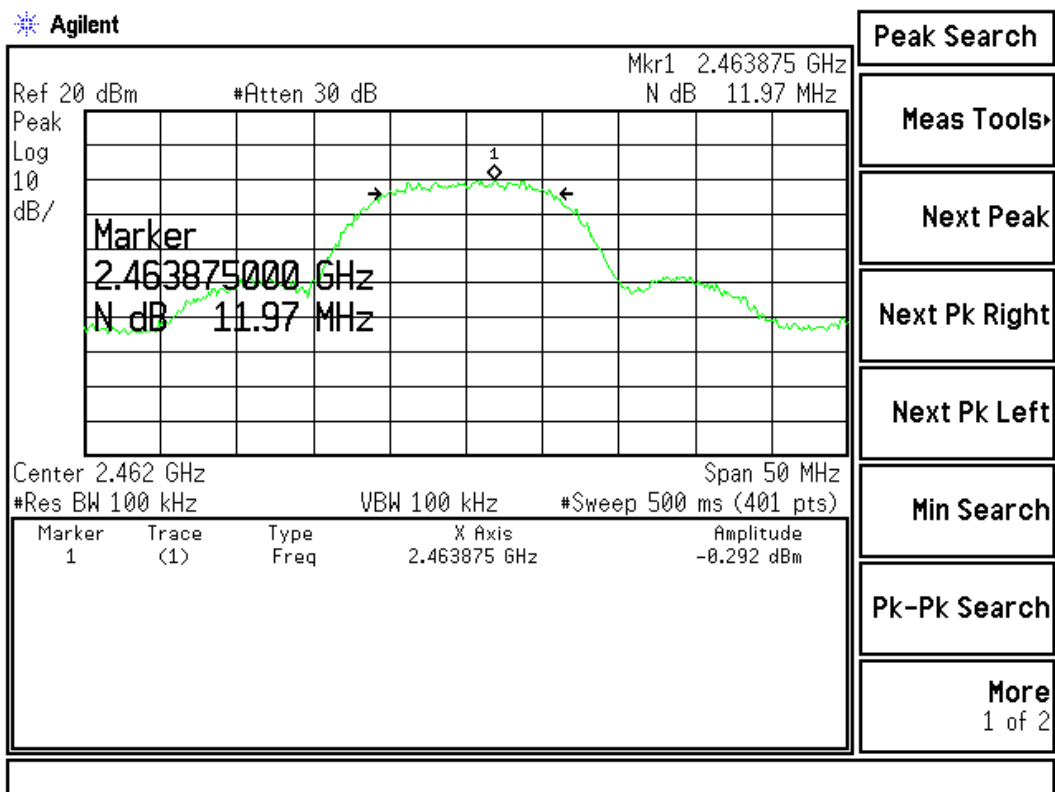
**Figure Channel 6: 11Mbps**



Product : Notebook  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (11Mbps)	2462.00	11970	>500	Pass

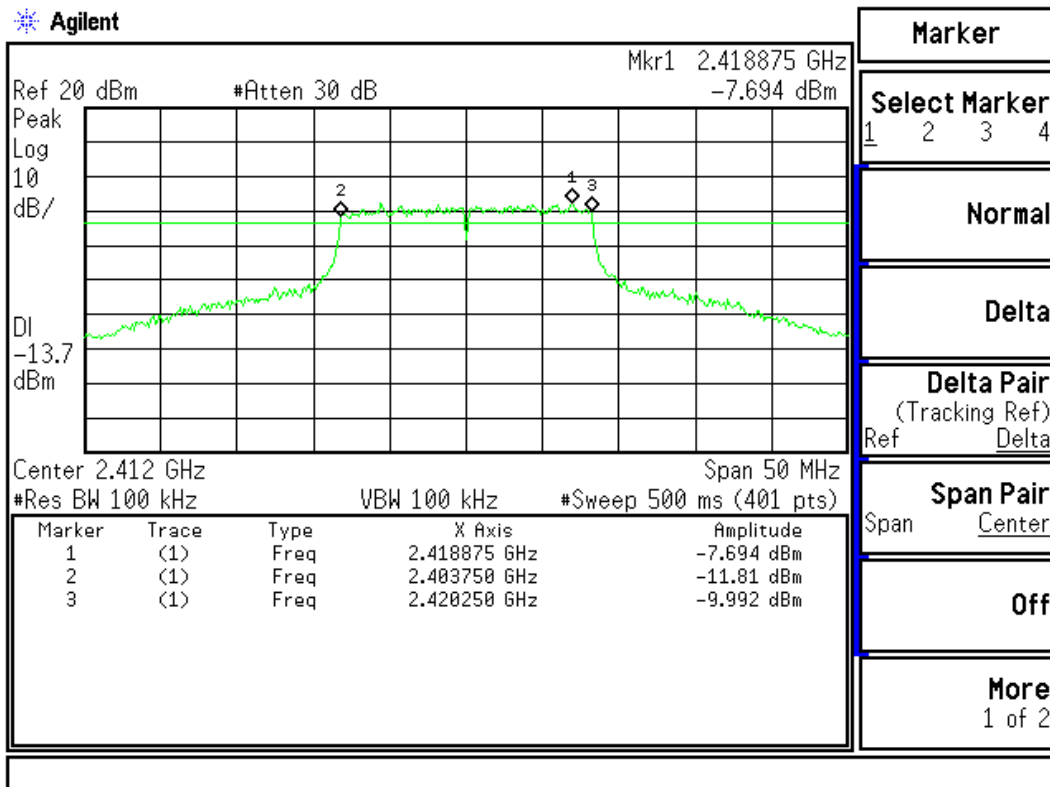
**Figure Channel 11: 11Mbps**



Product : Notebook  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (54Mbps)	2412.00	16500	>500	Pass

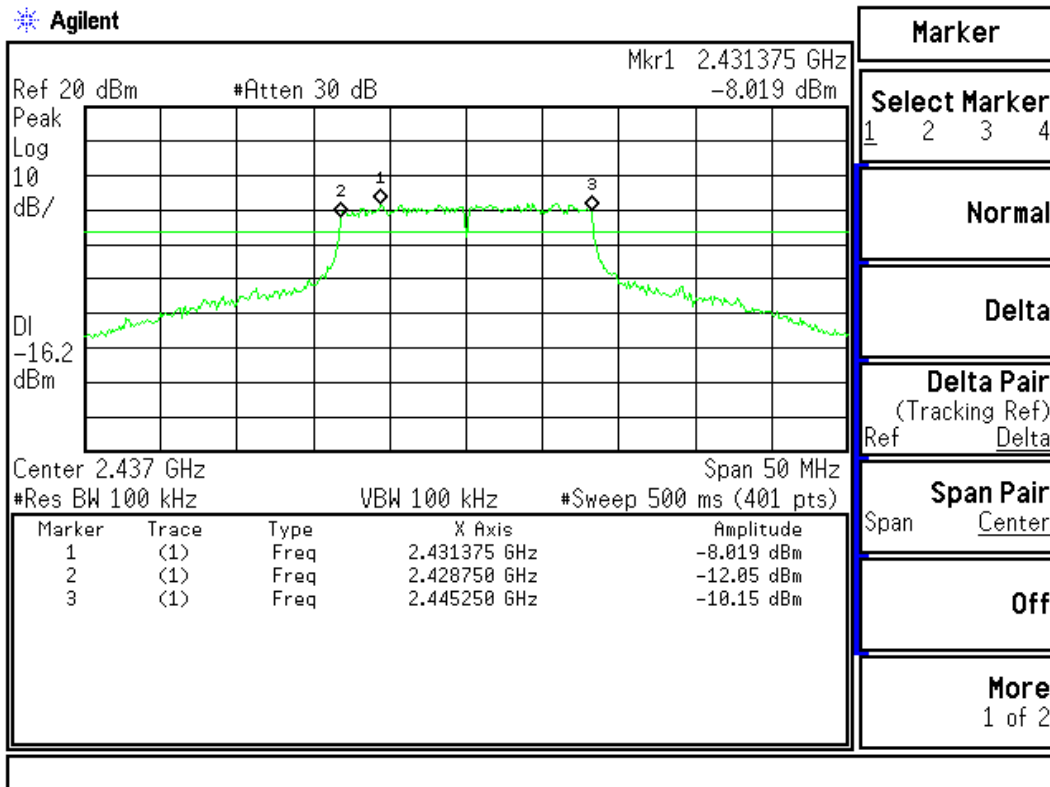
**Figure Channel 1:**



Product : Notebook  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (54Mbps)	2437.00	16500	>500	Pass

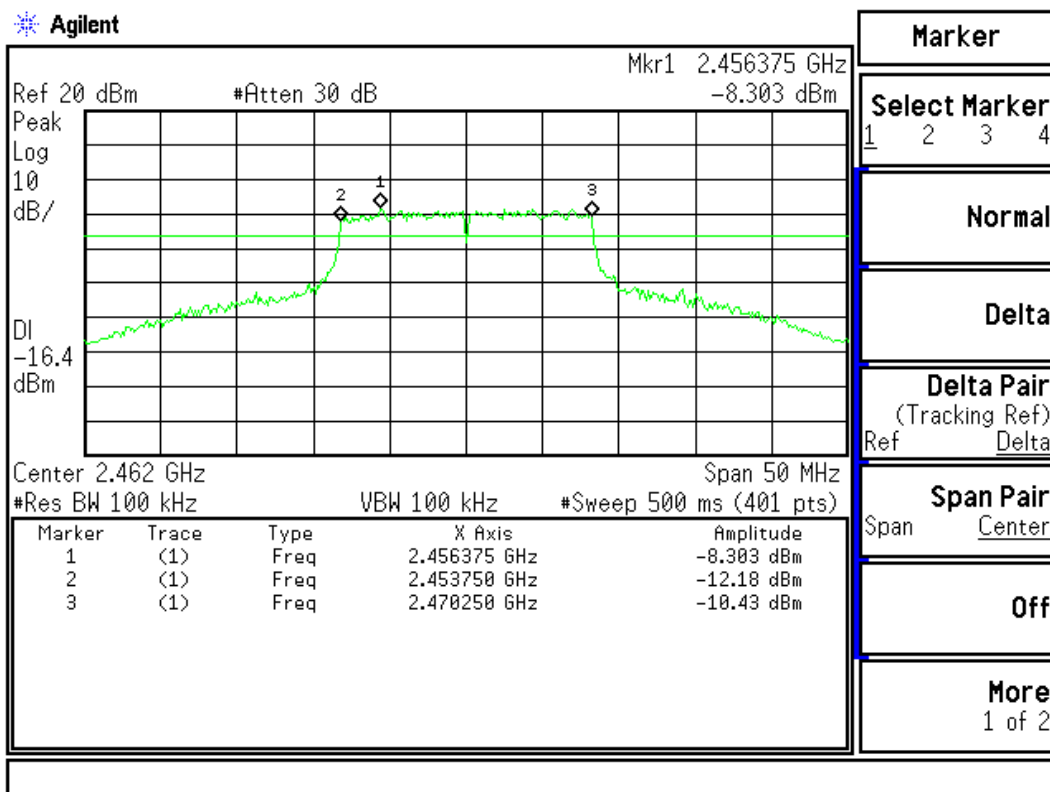
**Figure Channel 6:**



Product : Notebook  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (54Mbps)	2462.00	16500	>500	Pass

**Figure Channel 11:**



## 7. Power Density

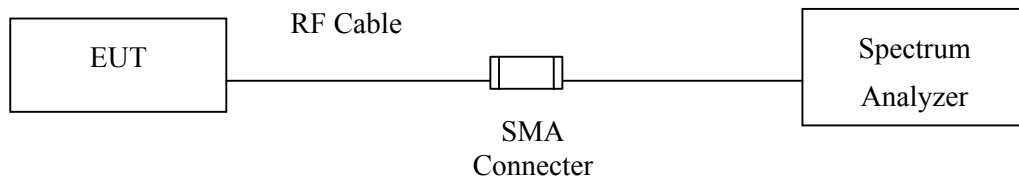
### 7.1. Test Equipment

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

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

- Note:
1. All equipments are calibrated every one year.
  2. The test instruments marked by “X” are used to measure the final test results.

### 7.2. Test Setup



### 7.3. Limits

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

### 7.4. Uncertainty

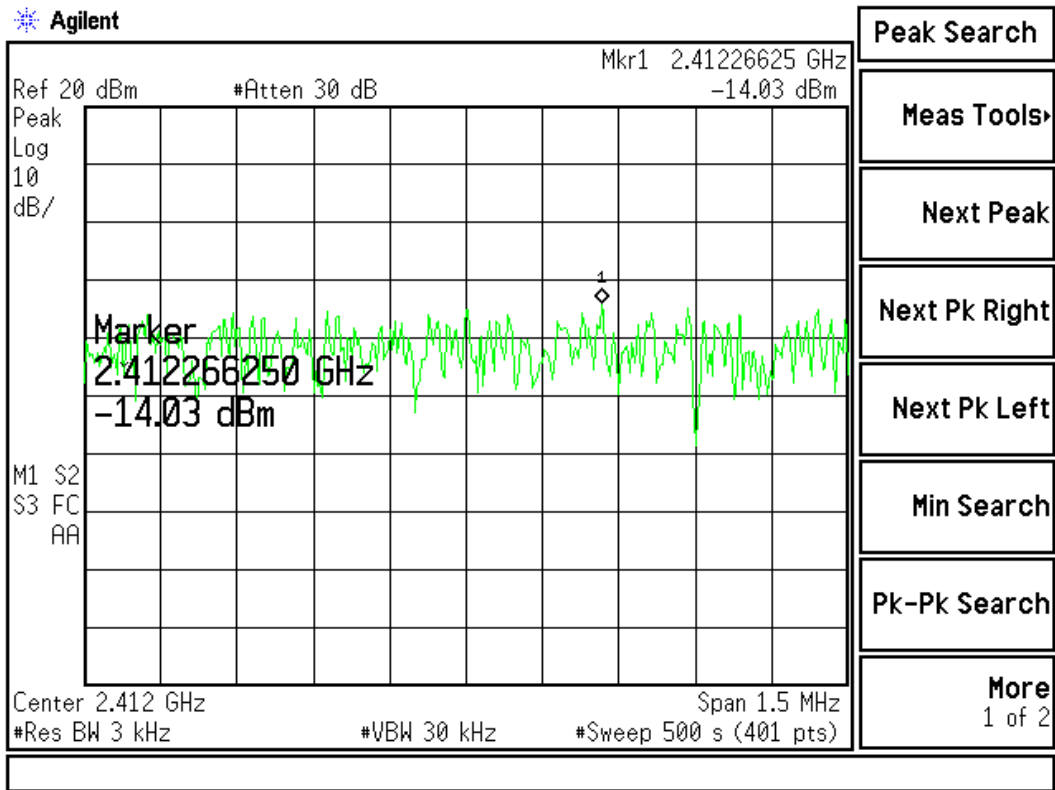
± 1.27 dB

**7.5. Test Result of Power Density**

Product : Notebook  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (11Mbps)	2412.00	-14.03	< 10dBm	Pass

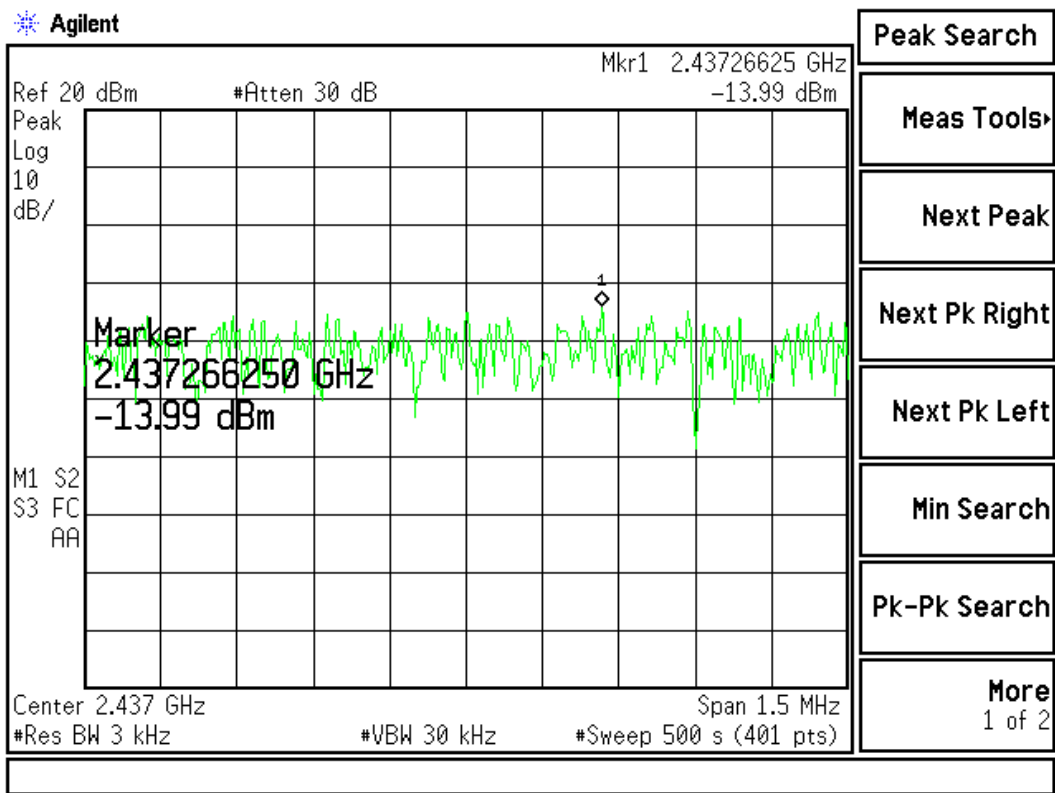
**Figure Channel 1: 11Mbps**



Product : Notebook  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (11Mbps)	2437.000	-13.99	< 10dBm	Pass

**Figure Channel 6: 11Mbps**

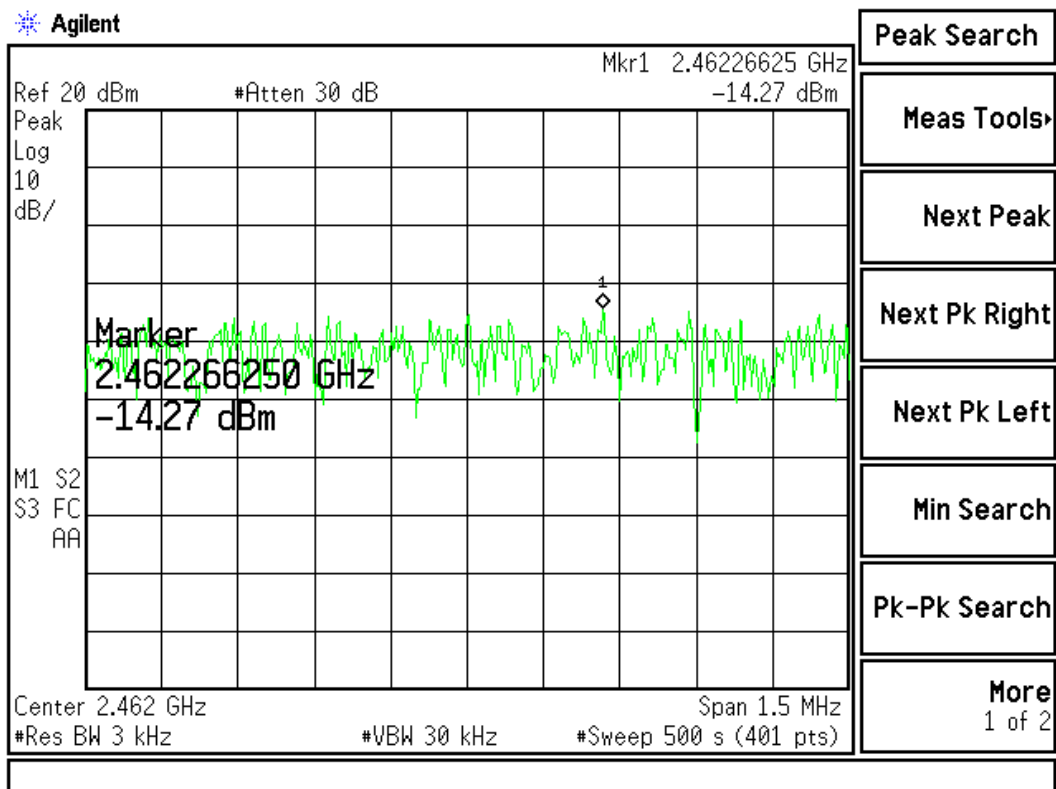




Product : Notebook  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b - Antenna 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (11Mbps)	2462.00	-14.27	< 10dBm	Pass

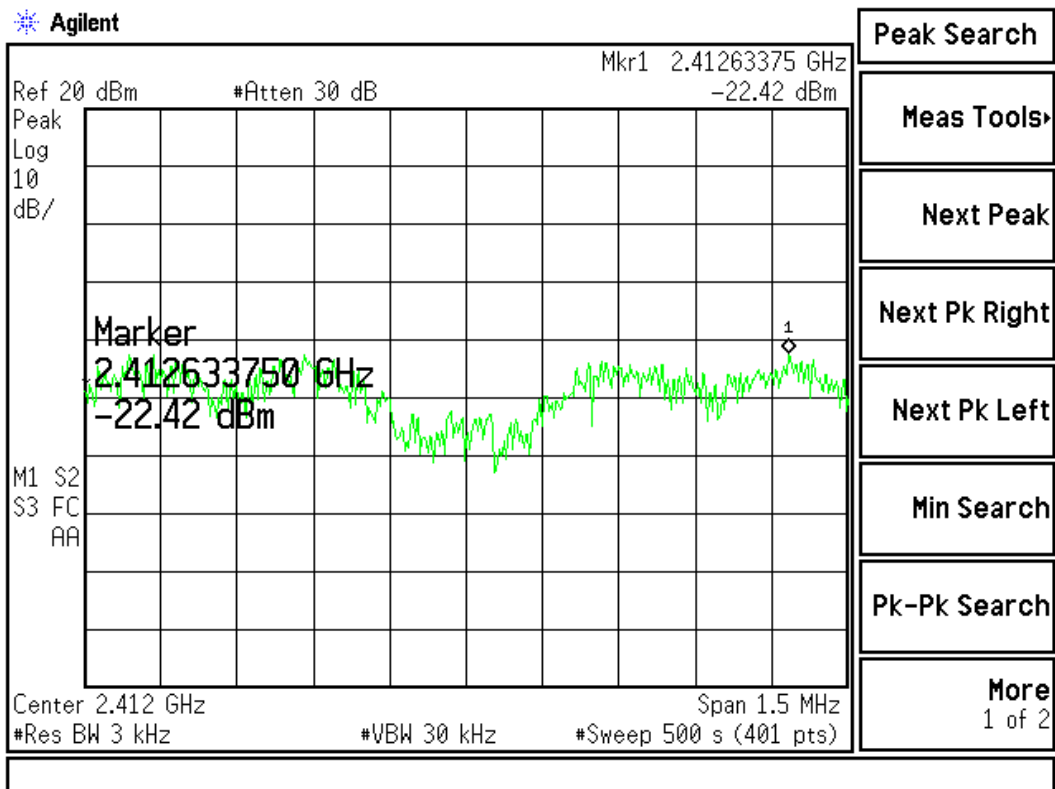
**Figure Channel 11: 11Mbps**



Product : Notebook  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna1 (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (54Mbps)	2412.00	-22.42	< 10dBm	Pass

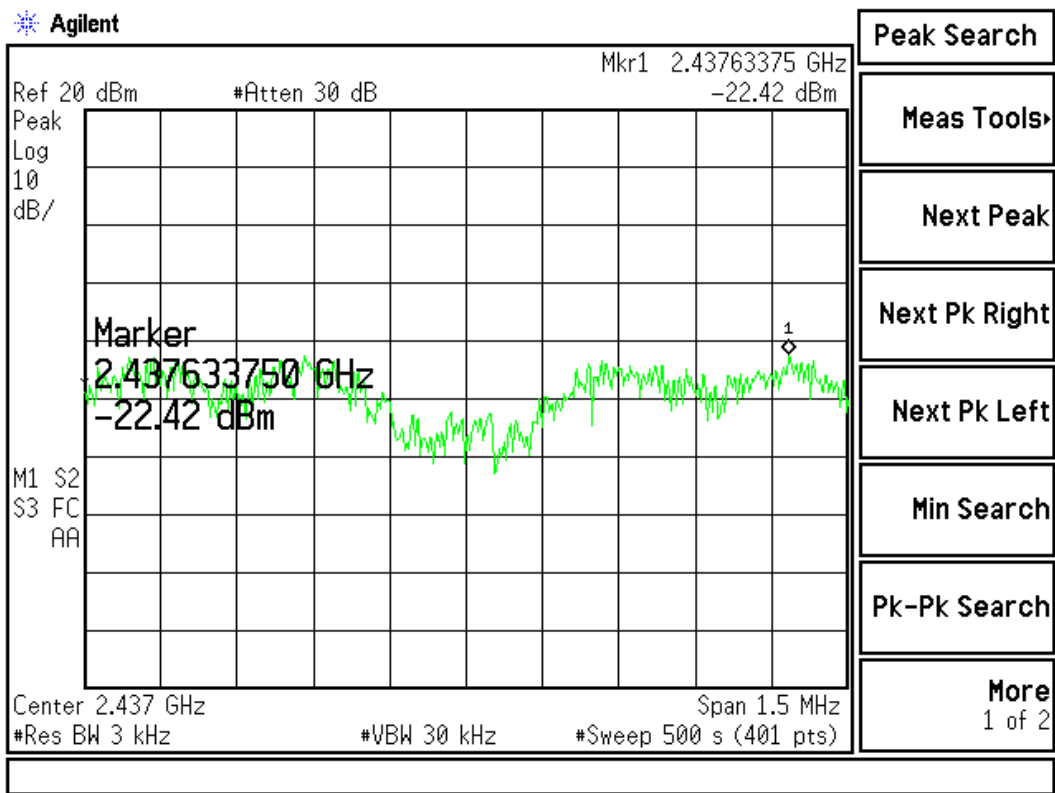
**Figure Channel 1:**



Product : Notebook  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (54Mbps)	2437.000	-22.42	< 10dBm	Pass

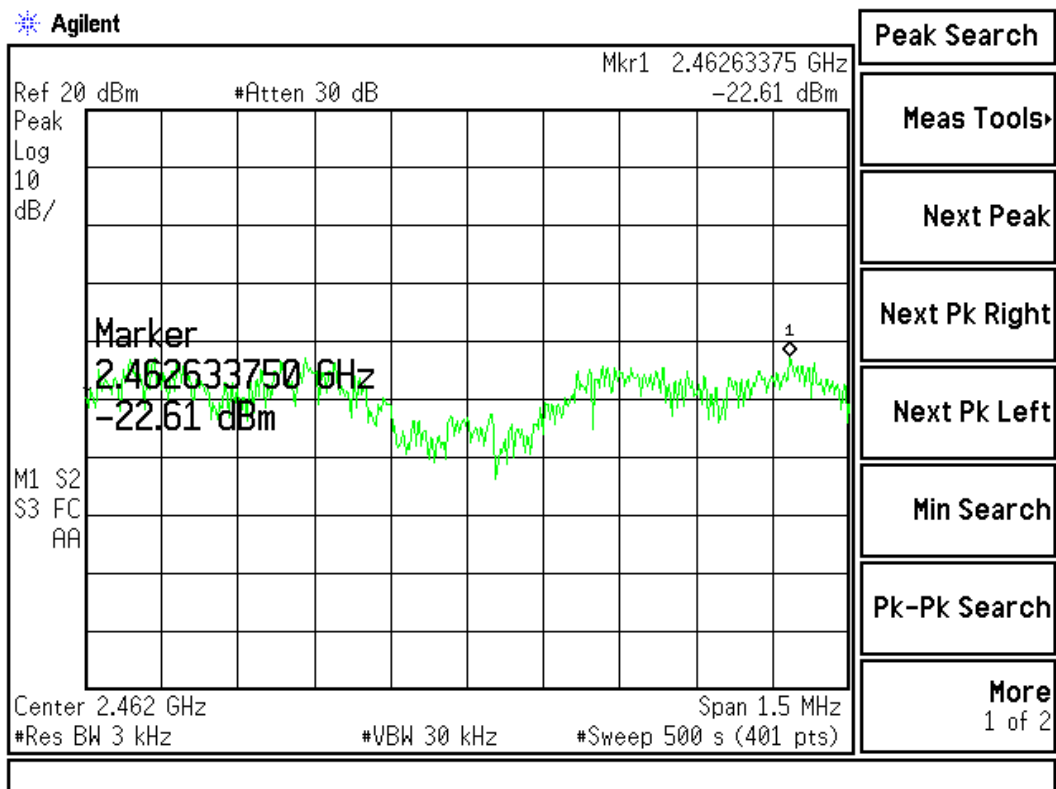
**Figure Channel 6:**



Product : Notebook  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g - Antenna1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (54Mbps)	2462.00	-22.61	< 10dBm	Pass

**Figure Channel 11:**



## 8. EMI Reduction Method During Compliance Testing

No modification was made during testing.