



## Test Report

Product Name : Notebook

Model No. : 223

FCC ID : SA6223XIBGX

Applicant : ELITEGROUP COMPUTER SYSTEMS CO., LTD.

Address : 3F, No. 240, Sec. 1, Nei Hu Road, Taipei, Taiwan 11441

Date of Receipt : June 05, 2005

Issued Date : June 22, 2005

Report No. : 056L086FI

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

# Test Report Certification

Issued Date : June 22, 2005

Report No. : 056L086FI



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

Product Name : Notebook

Applicant : ELITEGROUP COMPUTER SYSTEMS CO., LTD.

Address : 3F, No. 240, Sec. 1, Nei Hu Road, Taipei, Taiwan 11441

Manufacturer : ELITEGROUP COMPUTER SYSTEMS CO., LTD.

Model No. : 223

Rated Voltage : AC 120V/60Hz

Working Voltage : DC 3.3V (Powered by Notebook)

Trade Name : ECS

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2003  
ANSI C63.4: 2003

Test Result : Complied



Test results relate only to the samples tested.

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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Documented By : Rita Huang  
( Rita Huang )



0914

Tested By : Tim Sung  
( Tim Sung )

Approved By : Gene Chang  
( Gene Chang )



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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs



## 1.2. Operational Description

EUT is a Notebook with 11 channels. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps. The device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b) or eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps. The device of RF carrier is OFDM (IEEE 802.11g).

The device adapts direct sequence spread spectrum modulation. The antenna was Connector provides diversity function to improve the receiving function.

This Notebook, compliant with IEEE 802.11b and IEEE 802.11g, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direct Sequence Spread Spectrum (DSSS) radio transmission, the Notebook Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g network.

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

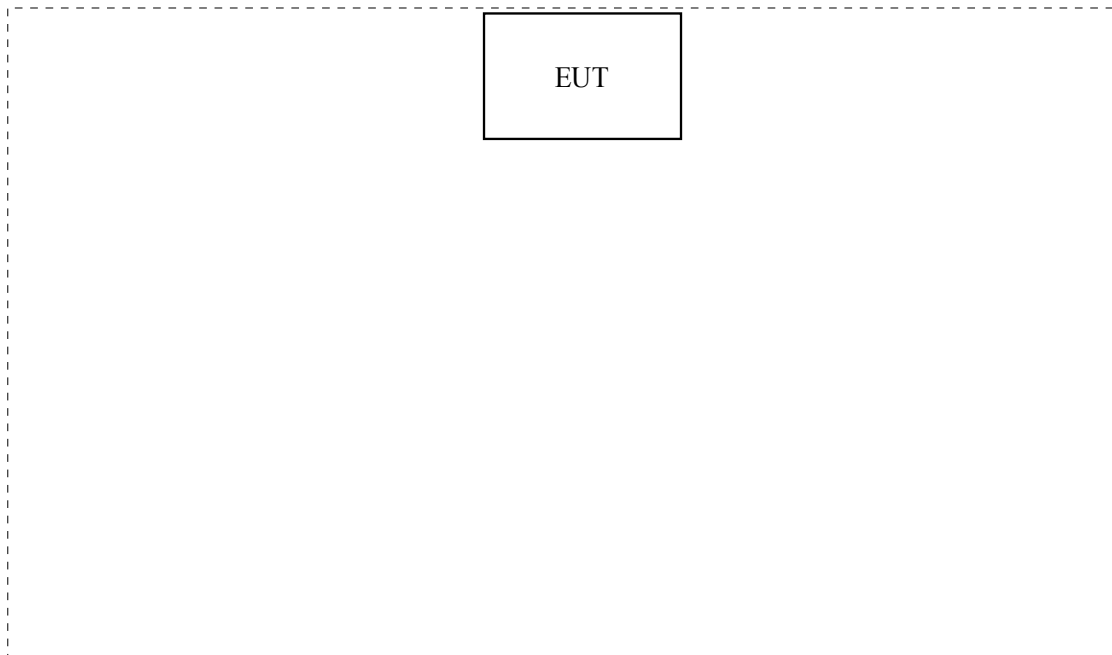
### 1.3. Tested System Details

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 tested System



#### 1.5. EUT Exercise Software

- (1) Setup the EUT and simulators as shown on 1.4
- (2) Turn on the power of all equipment.
- (3) Notebook PC reads data from disk.
- (4) Data will be transmitting and receiving through EUT.
- (5) The transmitted and receive status will be shown on the monitor.
- (6) Repeat the above procedure (3) to (5)



**1.6. Test Facility**

Ambient conditions in the laboratory:

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

Site Description: June 22, 2001 File on  
 Federal Communications Commission  
 FCC Engineering Laboratory  
 7435 Oakland Mills Road  
 Columbia, MD 21046  
 Reference 31040/SIT1300F2



July 03, 2001 Accreditation on NVLAP  
 NVLAP Lab Code: 200533-0



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## 2. Conducted Emission

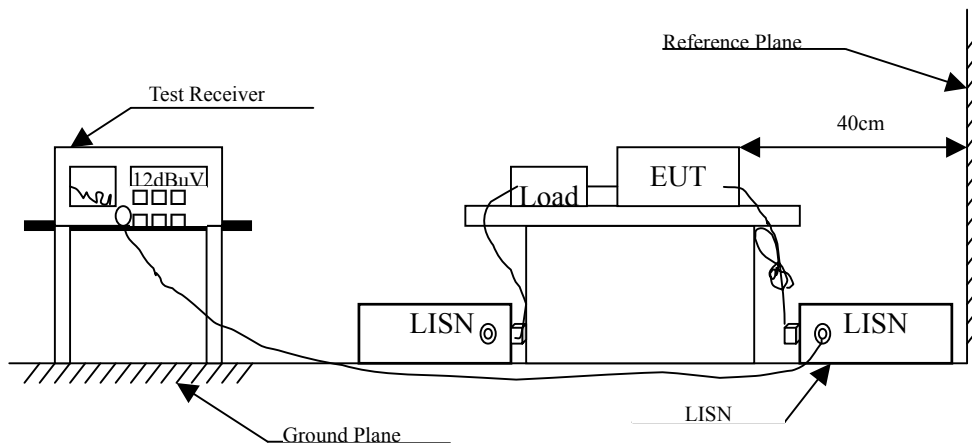
### 2.1. Test Equipment

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

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2005	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2005	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2005	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2005	
5	No.1 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

### 2.2. Test Setup



### 2.3. Limits

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

## 2.4. Test Procedure

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

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

The measurement uncertainty is defined as  $\pm 2.02$  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 (2437MHz)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.213	0.20	0.10	41.27	41.57	63.11
* 0.287	0.20	0.10	41.37	41.67	60.62
0.361	0.20	0.10	33.64	33.94	58.71
4.252	0.20	0.16	35.64	36.00	56.00
16.002	0.40	0.37	33.77	34.54	60.00
19.416	0.40	0.44	33.59	34.43	60.00
Average					
0.213	0.20	0.10	37.00	37.30	53.09
* 0.287	0.20	0.10	37.20	37.50	50.61
0.361	0.20	0.10	26.70	27.00	48.71
4.252	0.20	0.16	28.10	28.46	46.00
16.002	0.40	0.37	31.70	32.47	50.00
19.416	0.40	0.44	27.70	28.54	50.00

Note:

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

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

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.213	0.20	0.10	41.07	41.37	63.11
* 0.287	0.20	0.10	41.57	41.87	60.62
0.361	0.20	0.10	33.30	33.60	58.71
0.505	0.20	0.10	32.02	32.32	56.00
4.396	0.20	0.16	36.34	36.70	56.00
19.888	0.40	0.45	28.44	29.29	60.00
Average					
0.213	0.20	0.10	37.60	37.90	53.09
* 0.287	0.20	0.10	38.20	38.50	50.61
0.361	0.20	0.10	27.10	27.40	48.71
0.505	0.20	0.10	30.10	30.40	46.00
4.396	0.20	0.16	30.20	30.56	46.00
19.888	0.40	0.45	25.40	26.25	50.00

Note:

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

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

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.216	0.20	0.10	42.43	42.73	62.96
* 0.291	0.20	0.10	40.26	40.56	60.51
0.431	0.20	0.10	33.28	33.58	57.23
4.384	0.20	0.16	34.46	34.82	56.00
15.103	0.40	0.35	29.82	30.57	60.00
19.291	0.40	0.44	28.96	29.80	60.00
Average					
* 0.216	0.20	0.10	39.60	39.90	52.97
0.291	0.20	0.10	37.00	37.30	50.50
0.431	0.20	0.10	30.90	31.20	47.23
4.384	0.20	0.16	25.30	25.66	46.00
15.103	0.40	0.35	27.40	28.15	50.00
19.291	0.40	0.44	22.70	23.54	50.00

Note:

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

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

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
=====					
Quasi-Peak					
0.216	0.20	0.10	42.73	43.03	62.96
* 0.287	0.20	0.10	41.75	42.05	60.62
0.431	0.20	0.10	33.42	33.72	57.23
4.314	0.20	0.16	34.41	34.77	56.00
15.013	0.40	0.35	27.12	27.87	60.00
19.396	0.40	0.44	29.36	30.20	60.00
Average					
0.216	0.20	0.10	39.60	39.90	52.97
* 0.287	0.20	0.10	38.70	39.00	50.61
0.431	0.20	0.10	31.20	31.50	47.23
4.314	0.20	0.16	29.20	29.56	46.00
15.013	0.40	0.35	21.40	22.15	50.00
19.396	0.40	0.44	23.40	24.24	50.00

Note:

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

### 3. Peak Power Output

#### 3.1. Test Equipment

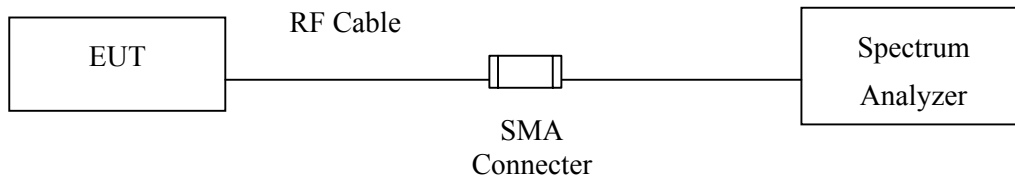
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2005

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.  
 2. Mark "X" test instruments are used to measure the final test results.

#### 3.2. Test Setup

##### Conduction Power Measurement



#### 3.3. Limits

The maximum peak power shall be less 1 Watt.

#### 3.4. Uncertainty

The measurement uncertainty is defined as  $\pm 1.27$  dB



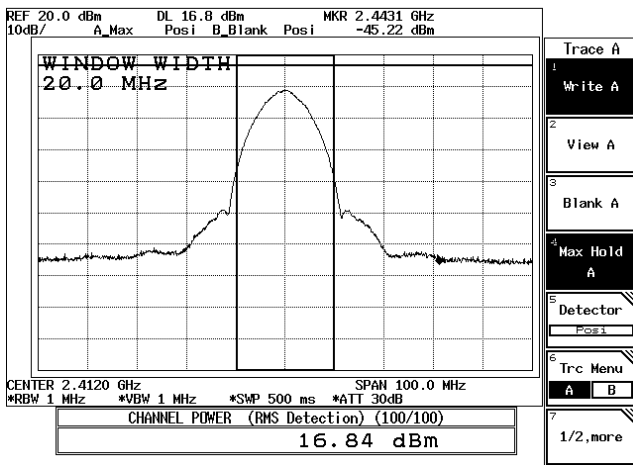
### 3.5. Test Result of Peak Power Output

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

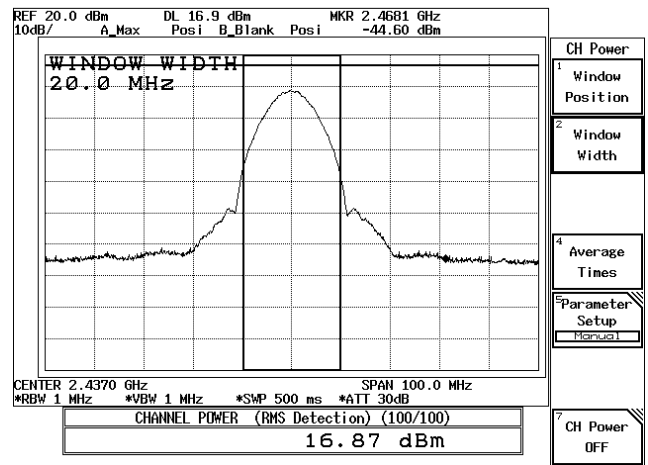
#### Data Speed: 11Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	16.84dBm	1 Watt= 30 dBm	Pass
6	2437.00	16.87dBm	1 Watt= 30 dBm	Pass
11	2462.00	17.31dBm	1 Watt= 30 dBm	Pass

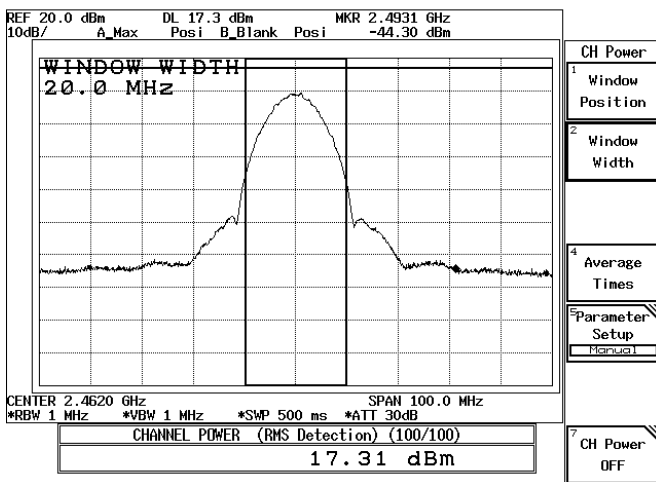
11Mbps-CH01



11Mbps-CH 06



11Mbps-CH11

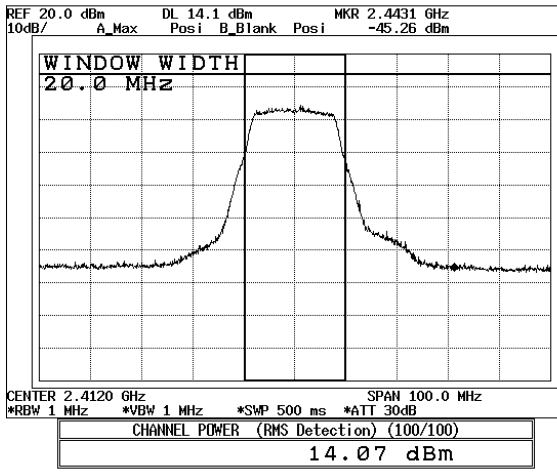


Product : Notebook  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g

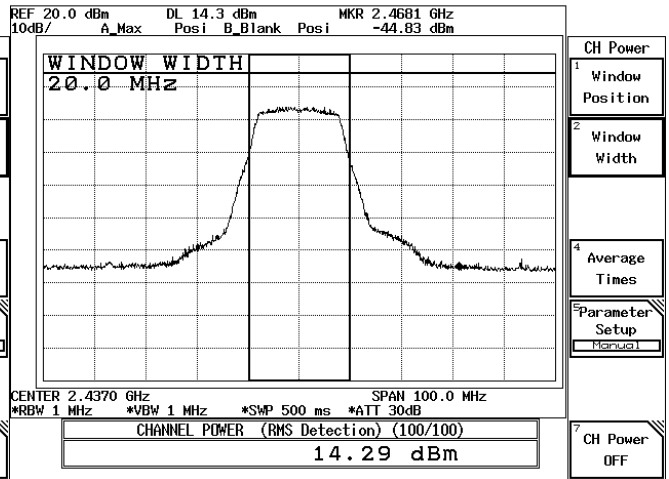
**Data Speed: 54Mbps**

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	14.07dBm	1 Watt= 30 dBm	Pass
6	2437.00	14.29dBm	1 Watt= 30 dBm	Pass
11	2462.00	14.08dBm	1 Watt= 30 dBm	Pass

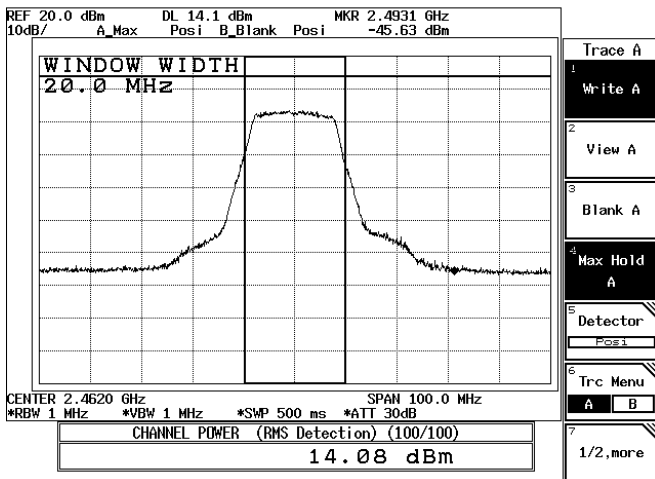
54Mbps-CH01



54Mbps-CH 06



54Mbps-CH11



Trace A

- Write A
- View A
- Blank A
- Max Hold A
- Detector  
Pos1
- Trc Menu  
A B
- 1/2, more

## 4. Radiated Emission

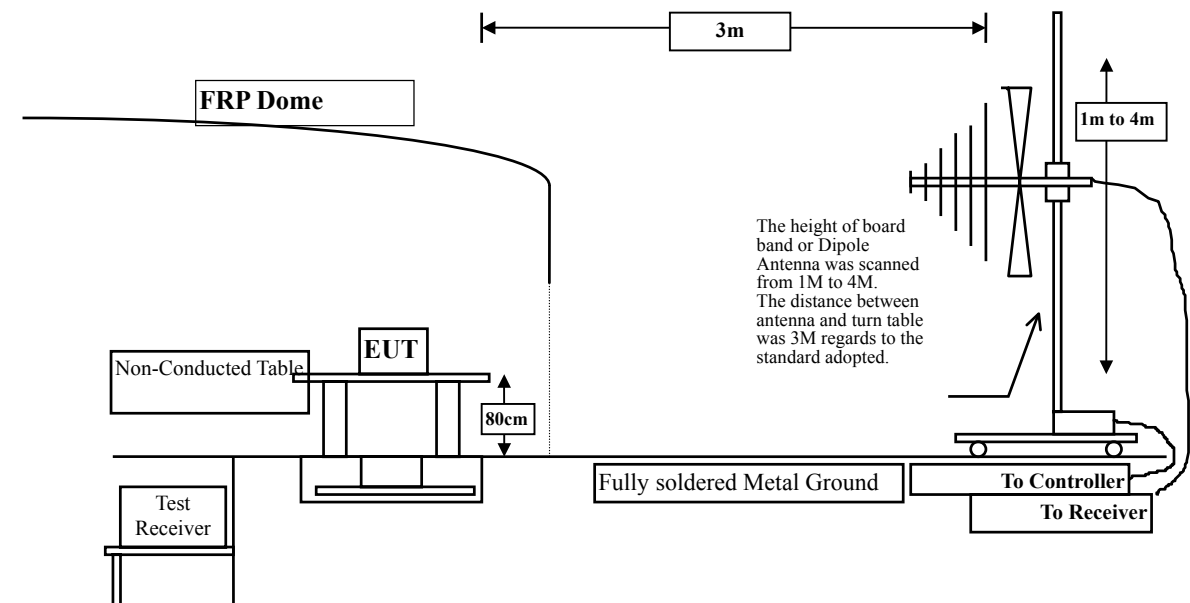
### 4.1. Test Equipment

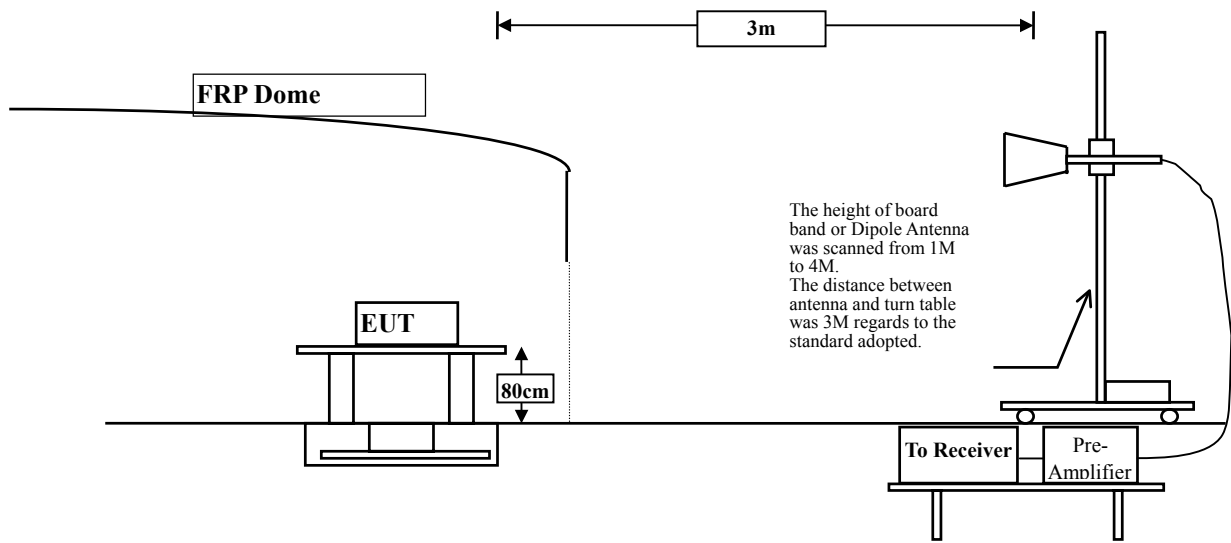
The following test equipment are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2005
	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2005
	Pre-Amplifier	HP	8447D/3307A01812	May, 2005
	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2004
	Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 2	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2005
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2005
	Pre-Amplifier	HP	8447D/3307A01814	May, 2005
	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2004
	Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 3	X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005
	X Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2005
	X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2005
	X Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2005
	X Horn Antenna	ETS	3115 / 0005-6160	July, 2004
	X Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2004

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

### 4.2. Test Setup





### 4.3. Limits

#### ➤ General Radiated Emission Limits

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

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

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

#### 4.4. Test Procedure

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

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

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

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

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

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

#### 4.5. Uncertainty

The measurement uncertainty is defined as  $\pm 3.8$  dB above 1GHz as  $\pm 3.9$  dB

#### 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 (2412MHz)

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m
<b>Horizontal Peak Detector</b>							
4824.000	3.86	31.21	34.65	43.56	43.98	30.02	74.00
7236.000	5.01	35.87	34.81	44.15	50.22	23.78	74.00
9648.000	6.15	37.84	35.10	44.88	53.78	20.22	74.00
<b>Average Detector</b>							
--							
<b>Vertical Peak Detector</b>							
4824.000	3.86	31.21	34.65	43.89	44.31	29.69	74.00
7236.000	5.01	35.87	34.81	44.56	50.63	23.37	74.00
9648.000	6.15	37.84	35.10	44.87	53.77	20.23	74.00
<b>Average Detector</b>							
--							

Note:

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

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

Frequency MHz	Cable Probe		PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
	Loss dB	Factor dB/m					
<b>Horizontal Peak Detector</b>							
4874.000	3.88	31.37	34.65	44.23	44.84	29.16	74.00
7311.000	5.05	36.00	34.82	44.72	50.95	23.05	74.00
9748.000	6.19	37.90	35.11	44.90	53.89	20.11	74.00
<b>Average Detector</b>							
--							
<b>Vertical Peak Detector</b>							
4874.000	3.88	31.37	34.65	43.73	44.34	29.66	74.00
7311.000	5.05	36.00	34.82	44.65	50.88	23.12	74.00
9748.000	6.19	37.90	35.11	44.83	53.82	20.18	74.00
<b>Average Detector</b>							
--							

Note:

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

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

Frequency MHz	Cable Probe		PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
	Loss dB	Factor dB/m					
<b>Horizontal Peak Detector</b>							
4924.000	3.92	31.43	34.64	43.64	44.35	29.65	74.00
7386.000	5.08	36.12	34.82	44.38	50.76	23.24	74.00
9848.000	6.25	38.00	35.12	44.56	53.69	20.31	74.00
<b>Average Detector</b>							
--							
<b>Vertical Peak Detector</b>							
4924.000	3.92	31.43	34.64	43.85	44.56	29.44	74.00
7386.000	5.08	36.12	34.82	44.82	51.20	22.80	74.00
9848.000	6.25	38.00	35.12	44.71	53.84	20.16	74.00
<b>Average Detector</b>							
--							

Note:

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



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

Frequency MHz	Cable Probe		PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
	Loss dB	Factor dB/m					
<b>Horizontal Peak Detector</b>							
4824.000	3.86	31.21	34.65	44.32	44.74	29.26	74.00
7236.000	5.01	35.87	34.81	44.15	50.22	23.78	74.00
9648.000	6.15	37.84	35.10	44.81	53.71	20.29	74.00
<b>Average Detector</b>							
--							
<b>Vertical Peak Detector</b>							
4824.000	3.86	31.21	34.65	43.69	44.11	29.89	74.00
7236.000	5.01	35.87	34.81	44.27	50.34	23.66	74.00
9648.000	6.15	37.84	35.10	44.98	53.88	20.12	74.00
<b>Average Detector</b>							
--							

Note:

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

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

Frequency MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal Peak Detector</b>							
4874.000	3.88	31.37	34.65	44.23	44.84	29.16	74.00
7311.000	5.05	36.00	34.82	44.63	50.86	23.14	74.00
9748.000	6.19	37.90	35.11	44.84	53.83	20.17	74.00
<b>Average Detector</b>							
--							
<b>Vertical Peak Detector</b>							
4874.000	3.88	31.37	34.65	44.21	44.82	29.18	74.00
7311.000	5.05	36.00	34.82	43.99	50.22	23.78	74.00
9748.000	6.19	37.90	35.11	44.77	53.76	20.24	74.00
<b>Average Detector</b>							
--							

Note:

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

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

Frequency MHz	Cable Probe		PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
	Loss dB	Factor dB/m					
<b>Horizontal Peak Detector</b>							
4924.000	3.92	31.43	34.64	44.11	44.82	29.18	74.00
7386.000	5.08	36.12	34.82	44.38	50.76	23.24	74.00
9848.000	6.25	38.00	35.12	44.62	53.75	20.25	74.00
<b>Average Detector</b>							
--							
<b>Vertical Peak Detector</b>							
4924.000	3.92	31.43	34.64	44.16	44.87	29.13	74.00
7386.000	5.08	36.12	34.82	44.26	50.64	23.36	74.00
9848.000	6.25	38.00	35.12	44.66	53.79	20.21	74.00
<b>Average Detector</b>							
--							

Note:

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

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

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

**Horizontal:**

146.400	1.47	10.56	0.00	17.07	29.09	14.41	43.50
277.350	2.14	11.85	0.00	16.94	30.94	15.06	46.00
347.670	2.51	12.92	0.00	17.35	32.78	13.22	46.00
643.530	4.03	18.61	0.00	12.87	35.50	10.50	46.00
701.720	4.33	18.30	0.00	12.03	34.67	11.33	46.00
* 898.150	5.34	19.57	0.00	11.13	36.04	9.96	46.00

**Vertical:**

* 112.450	1.29	10.92	0.00	19.95	32.16	11.34	43.50
274.920	2.13	12.24	0.00	18.35	32.72	13.28	46.00
544.100	3.51	18.49	0.00	11.17	33.17	12.83	46.00
619.280	3.90	19.27	0.00	9.71	32.88	13.12	46.00
750.220	4.58	20.64	0.00	6.98	32.20	13.80	46.00
847.220	5.08	18.89	0.00	8.86	32.84	13.16	46.00

**Note:**

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

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

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

**Horizontal:**

146.400	1.47	10.56	0.00	15.82	27.84	15.66	43.50
333.120	2.43	12.56	0.00	16.23	31.23	14.77	46.00
398.600	2.77	14.62	0.00	15.81	33.20	12.80	46.00
529.550	3.45	16.59	0.00	14.93	34.97	11.03	46.00
616.850	3.89	18.75	0.00	12.24	34.89	11.11	46.00
* 643.530	4.03	18.61	0.00	12.45	35.08	10.92	46.00

**Vertical:**

* 88.200	1.17	7.94	0.00	22.88	31.99	11.51	43.50
274.920	2.13	12.24	0.00	18.10	32.47	13.53	46.00
384.050	2.69	15.08	0.00	15.82	33.59	12.41	46.00
544.100	3.51	18.49	0.00	10.36	32.36	13.64	46.00
675.050	4.19	17.70	0.00	10.21	32.11	13.89	46.00
750.220	4.58	20.64	0.00	7.13	32.35	13.65	46.00

Note:

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

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

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

**Horizontal:**

112.450	1.29	12.01	0.00	16.00	29.30	14.20	43.50
274.920	2.13	11.98	0.00	18.37	32.48	13.52	46.00
347.670	2.51	12.92	0.00	17.57	33.00	13.00	46.00
* 544.100	3.51	17.80	0.00	14.29	35.60	10.40	46.00
616.850	3.89	18.75	0.00	12.33	34.98	11.02	46.00
643.530	4.03	18.61	0.00	12.69	35.32	10.68	46.00

**Vertical:**

112.450	1.29	10.92	0.00	19.06	31.27	12.23	43.50
277.350	2.14	12.08	0.00	19.06	33.28	12.72	46.00
384.050	2.69	15.08	0.00	15.85	33.62	12.38	46.00
* 529.550	3.45	16.95	0.00	14.11	34.51	11.49	46.00
633.830	3.98	18.48	0.00	10.32	32.78	13.22	46.00
750.220	4.58	20.64	0.00	8.57	33.79	12.21	46.00

Note:

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

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

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

**Horizontal:**

165.800	1.57	9.12	0.00	18.18	28.87	14.63	43.50
347.670	2.51	12.92	0.00	16.76	32.19	13.81	46.00
401.020	2.78	14.85	0.00	16.10	33.73	12.27	46.00
544.100	3.51	17.80	0.00	14.90	36.21	9.79	46.00
672.620	4.18	18.39	0.00	11.12	33.69	12.31	46.00
* 922.400	5.47	20.29	0.00	11.16	36.92	9.08	46.00

**Vertical:**

* 165.800	1.57	8.42	0.00	25.12	35.11	8.39	43.50
277.350	2.14	12.08	0.00	19.25	33.47	12.53	46.00
384.050	2.69	15.08	0.00	16.00	33.77	12.23	46.00
478.620	3.18	16.60	0.00	15.18	34.97	11.03	46.00
631.400	3.97	18.65	0.00	10.13	32.75	13.25	46.00
675.050	4.19	17.70	0.00	11.91	33.81	12.19	46.00

**Note:**

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

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

Frequency	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m
<b>Horizontal:</b>							
207.020	1.78	8.46	0.00	22.40	32.64	10.86	43.50
345.250	2.49	12.90	0.00	16.86	32.25	13.75	46.00
398.600	2.77	14.62	0.00	15.88	33.27	12.73	46.00
* 544.100	3.51	17.80	0.00	14.19	35.50	10.50	46.00
675.050	4.19	18.41	0.00	11.13	33.73	12.27	46.00
745.380	4.55	18.37	0.00	11.12	34.05	11.95	46.00
<b>Vertical:</b>							
* 112.450	1.29	10.92	0.00	20.05	32.26	11.24	43.50
277.350	2.14	12.08	0.00	18.98	33.20	12.80	46.00
384.050	2.69	15.08	0.00	16.89	34.66	11.34	46.00
478.620	3.18	16.60	0.00	14.81	34.60	11.40	46.00
544.100	3.51	18.49	0.00	11.08	33.08	12.92	46.00
750.220	4.58	20.64	0.00	7.53	32.75	13.25	46.00

Note:

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



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

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

**Horizontal:**

146.400	1.47	10.56	0.00	16.54	28.56	14.94	43.50
199.750	1.74	8.40	0.00	20.96	31.10	12.40	43.50
398.600	2.77	14.62	0.00	16.72	34.11	11.89	46.00
529.550	3.45	16.59	0.00	13.92	33.96	12.04	46.00
643.530	4.03	18.61	0.00	12.35	34.98	11.02	46.00
* 798.720	4.83	19.39	0.00	12.05	36.27	9.73	46.00

**Vertical:**

129.430	1.38	10.59	0.00	19.57	31.55	11.95	43.50
277.350	2.14	12.08	0.00	19.80	34.02	11.98	46.00
333.120	2.43	12.61	0.00	16.77	31.82	14.18	46.00
478.620	3.18	16.60	0.00	14.39	34.18	11.82	46.00
* 529.550	3.45	16.95	0.00	14.51	34.91	11.09	46.00
675.050	4.19	17.70	0.00	11.46	33.36	12.64	46.00

Note:

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

## 5. Band Edge

### 5.1. Test Equipment

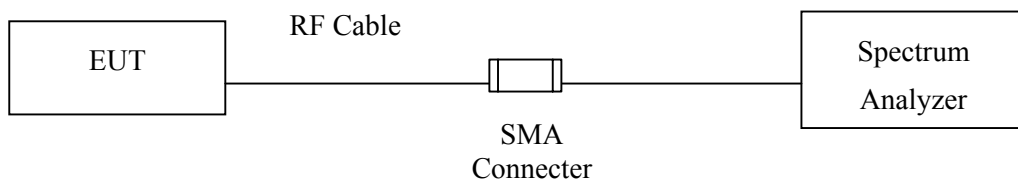
The following test equipments are used during the band edge tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Spectrum Analyzer	HP	E4407B / US39440758	May, 2005
X Test Receiver	R & S	ESCS 30 / 825442/14	May, 2005
X Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2005
X Pre-Amplifier	HP	8447D/3307A01812	May, 2005
X Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2004
X Horn Antenna	EM	EM6917 / 103325	May, 2005

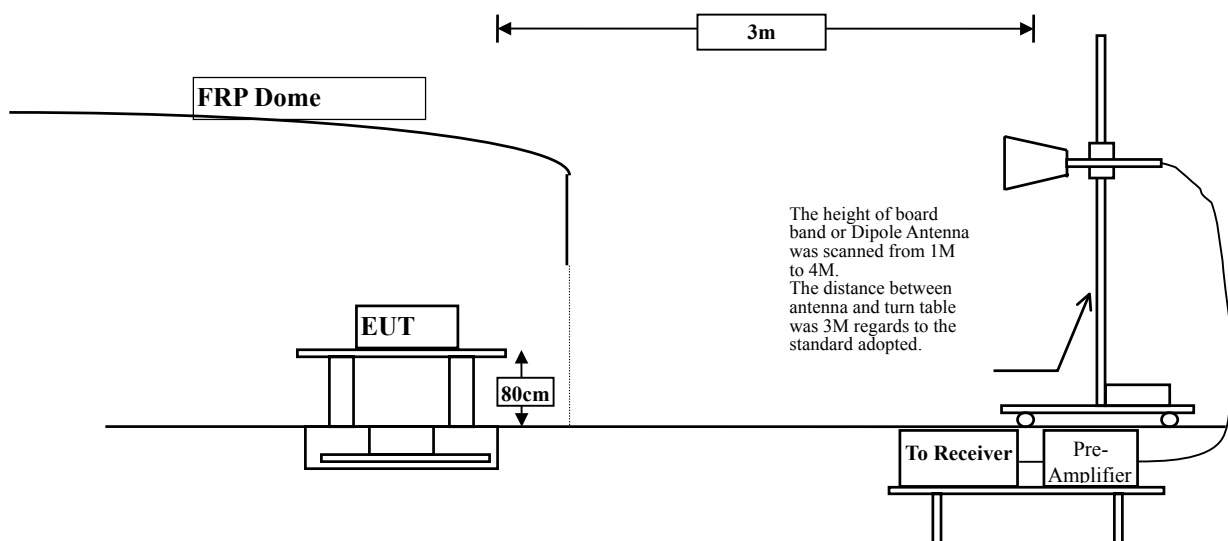
- Note: 1. All equipments that need to calibrate are with calibration period of 1 year.  
 2. Mark "X" test instruments are used to measure the final test results.

### 5.2. Test Setup

#### RF Conducted Measurement:



#### RF Radiated Measurement:



### 5.3. Limits

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

### 5.4. Test Procedure

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

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

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

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

### 5.5. Uncertainty

The measurement uncertainty Conducted is defined as  $\pm 1$  MHz and Radiated above 1GHz as  $\pm 3.9$  dB.

### 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

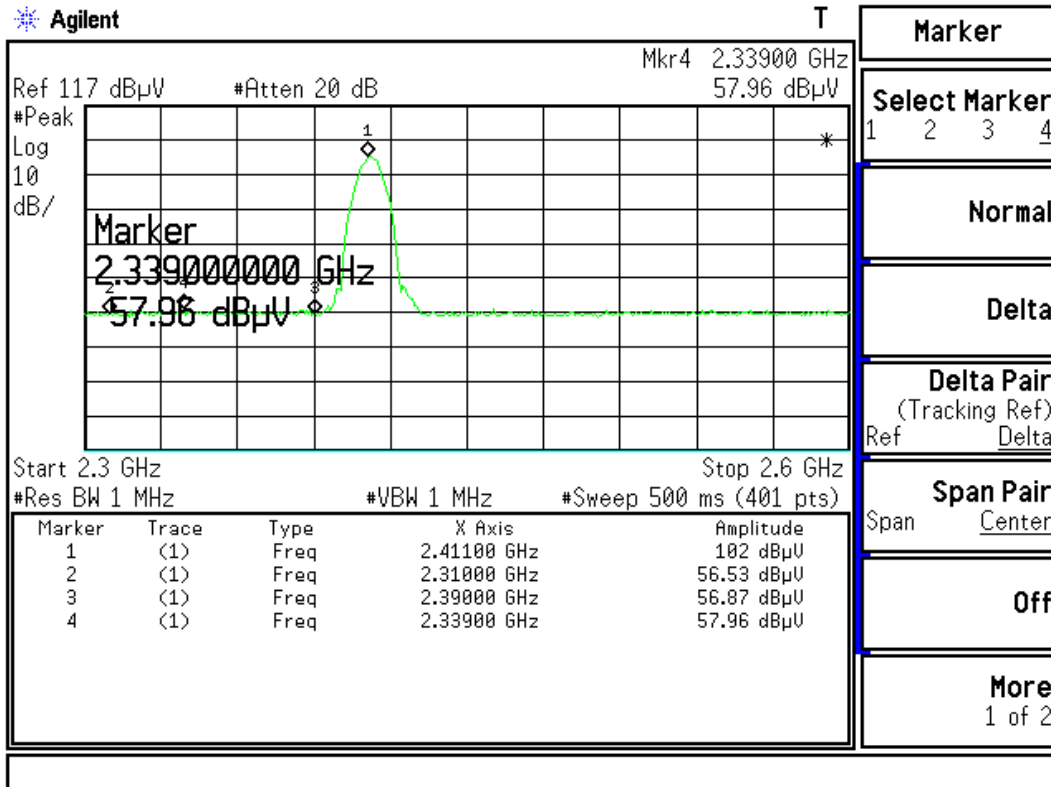
**RF Radiated Measurement:**

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

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2339.000	57.96	52.83	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

**Figure Channel 1:** (Horizontal)



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

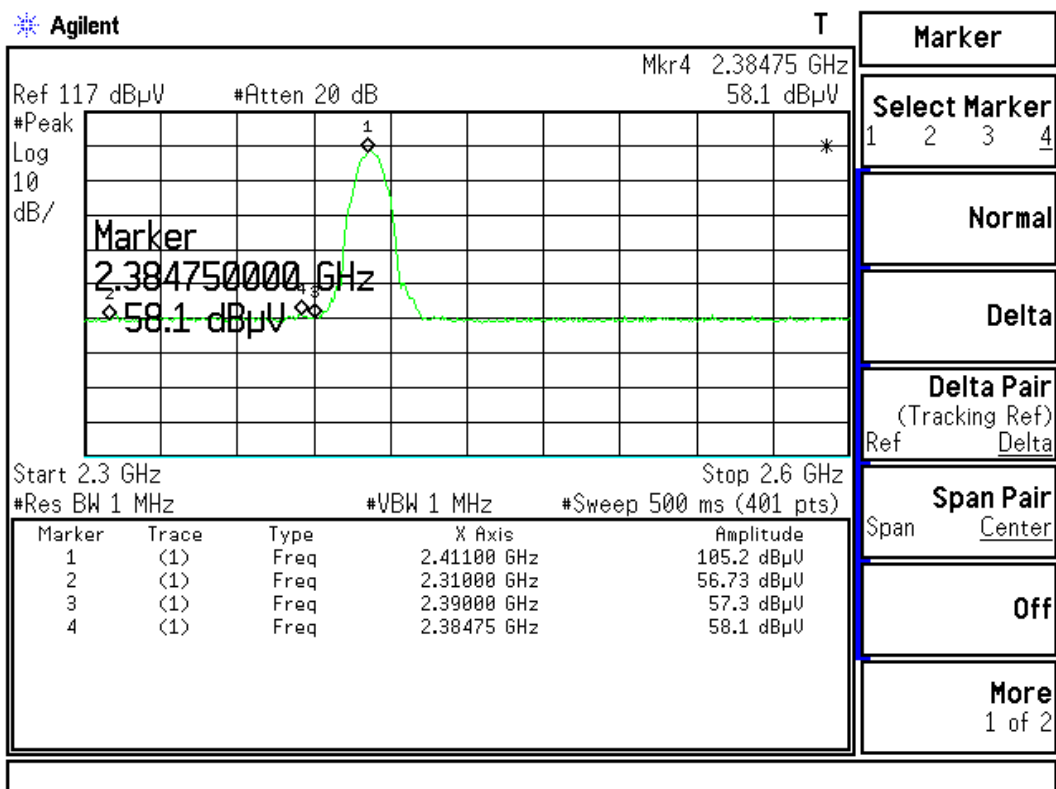
**RF Radiated Measurement:**

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

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2384.750	58.10	53.19	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

**Figure Channel 1:** (Vertical)

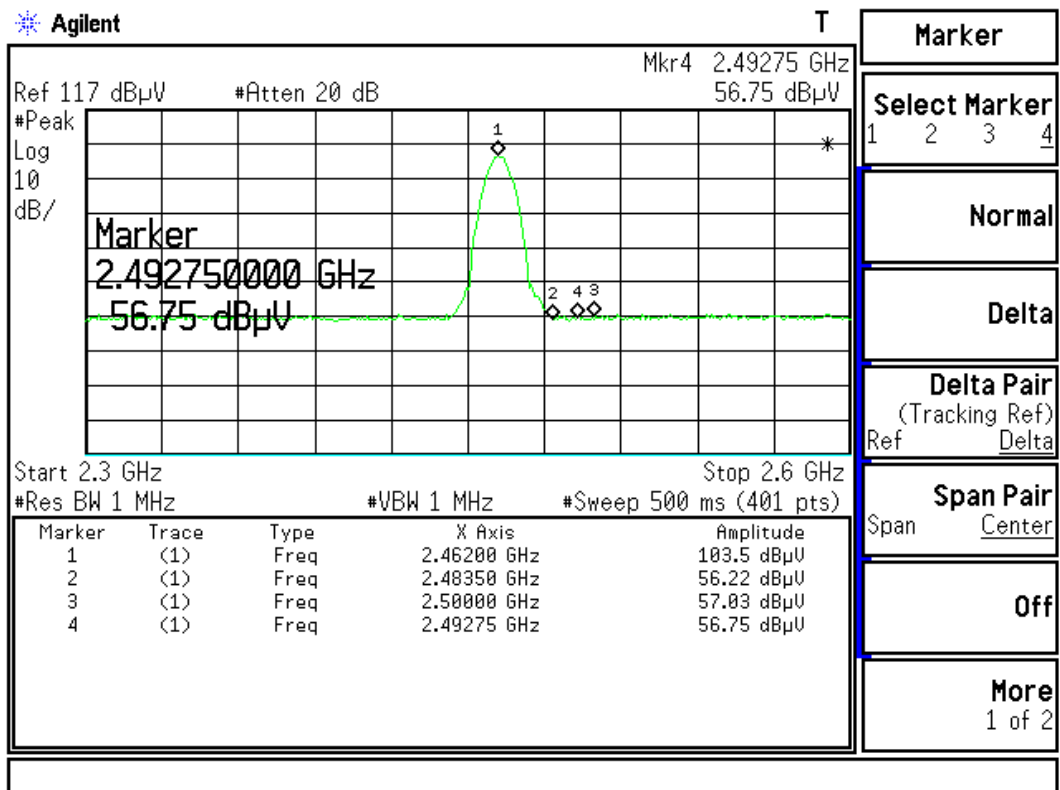


Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2492.750	56.75	52.07	74.00	54.00	Pass
11(Average)	--	--	--	74.00	54.00	Pass

**Figure Channel 11:** (Horizontal)

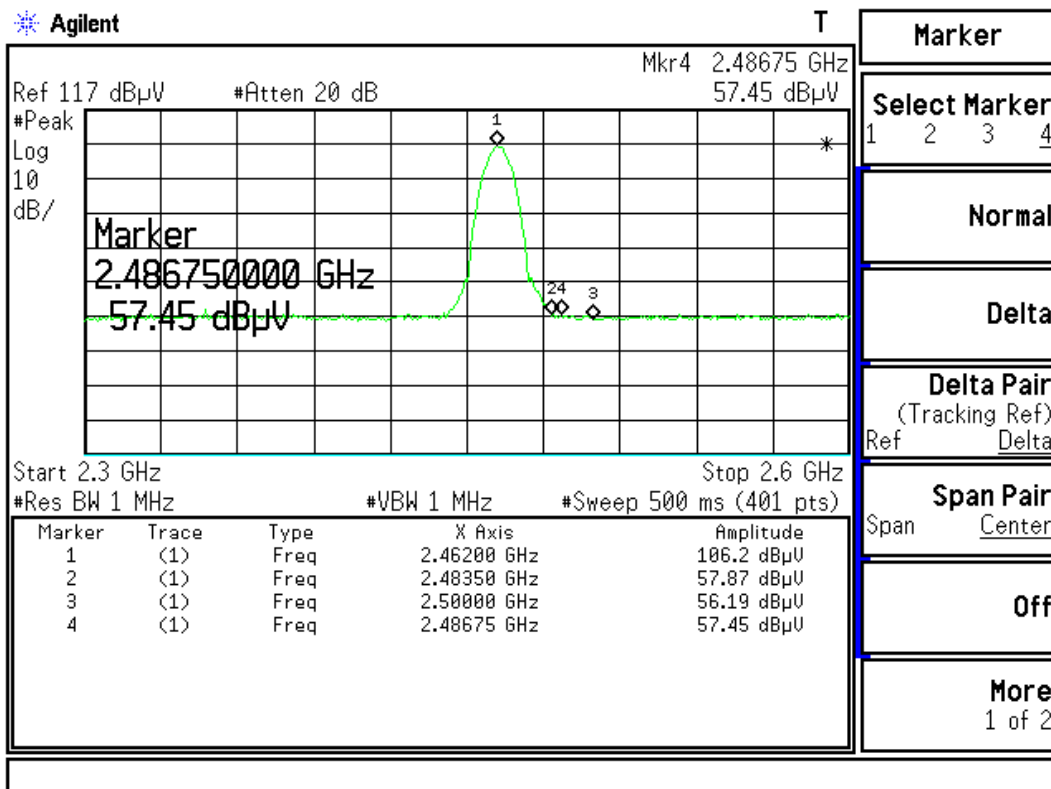


Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11b

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2486.750	57.45	52.77	74.00	54.00	Pass
11(Average)	--	--	--	74.00	54.00	Pass

**Figure Channel 11:** (Vertical)



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

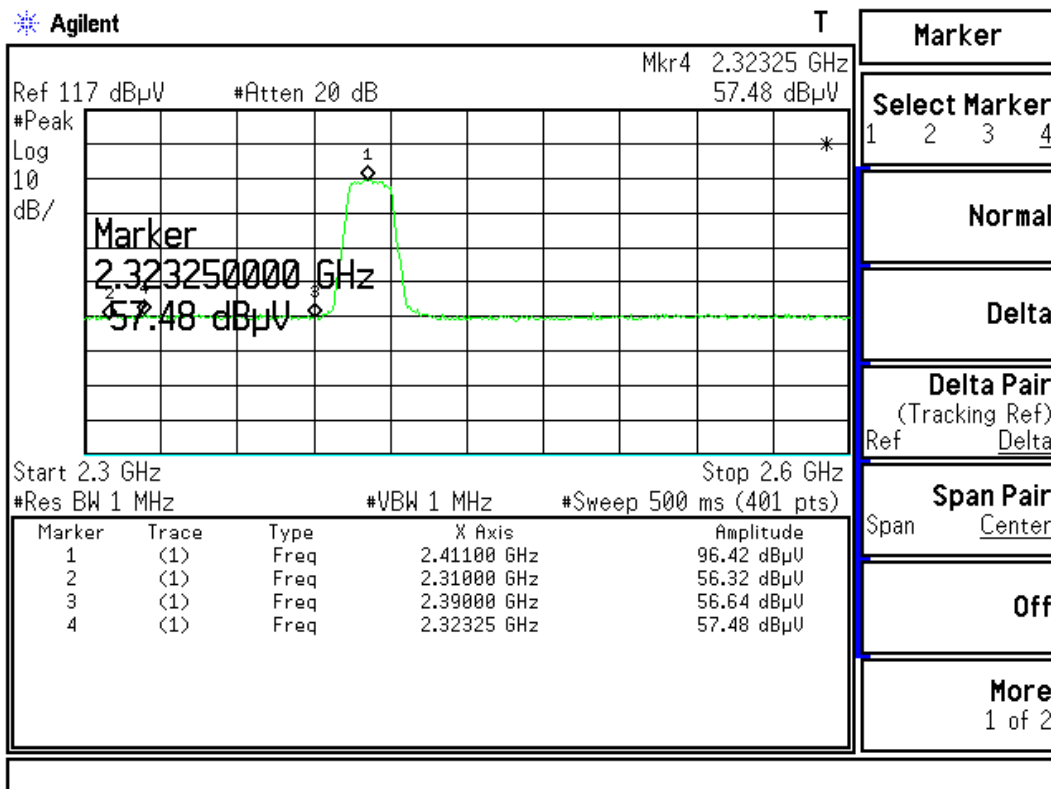
**RF Radiated Measurement:**

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

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2323.250	57.48	52.26	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

**Figure Channel 1:** (Horizontal)





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

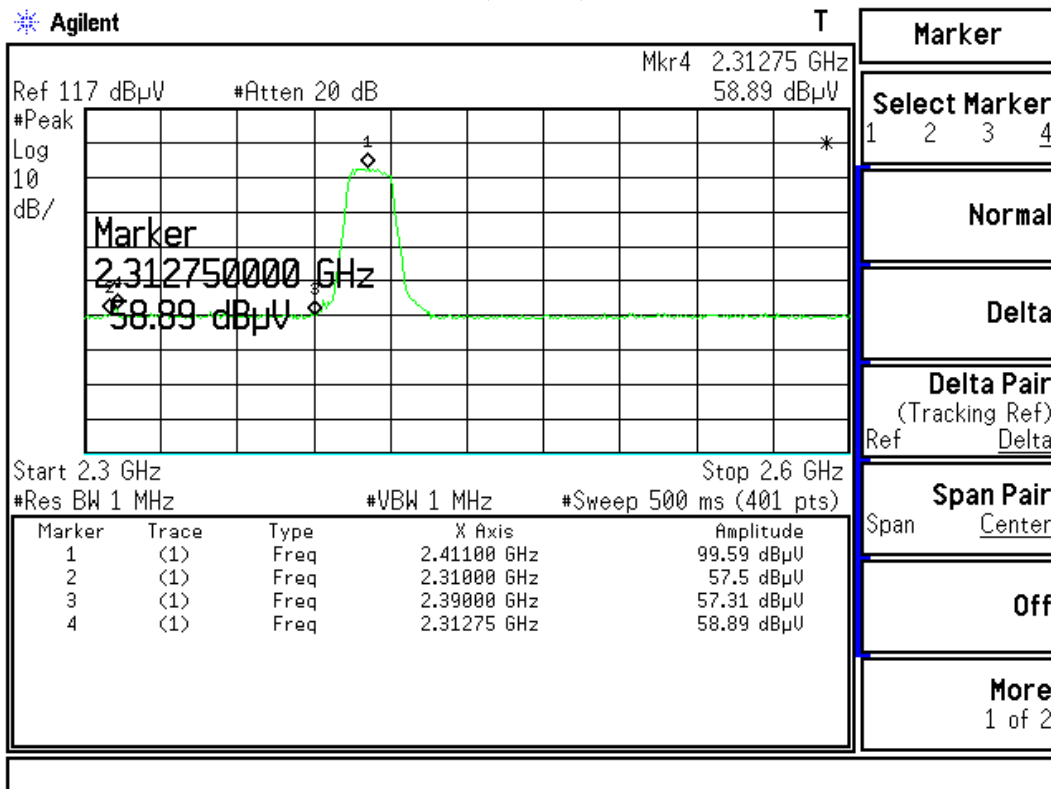
**RF Radiated Measurement:**

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

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2312.750	58.89	53.67	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

**Figure Channel 1:** (Vertical)

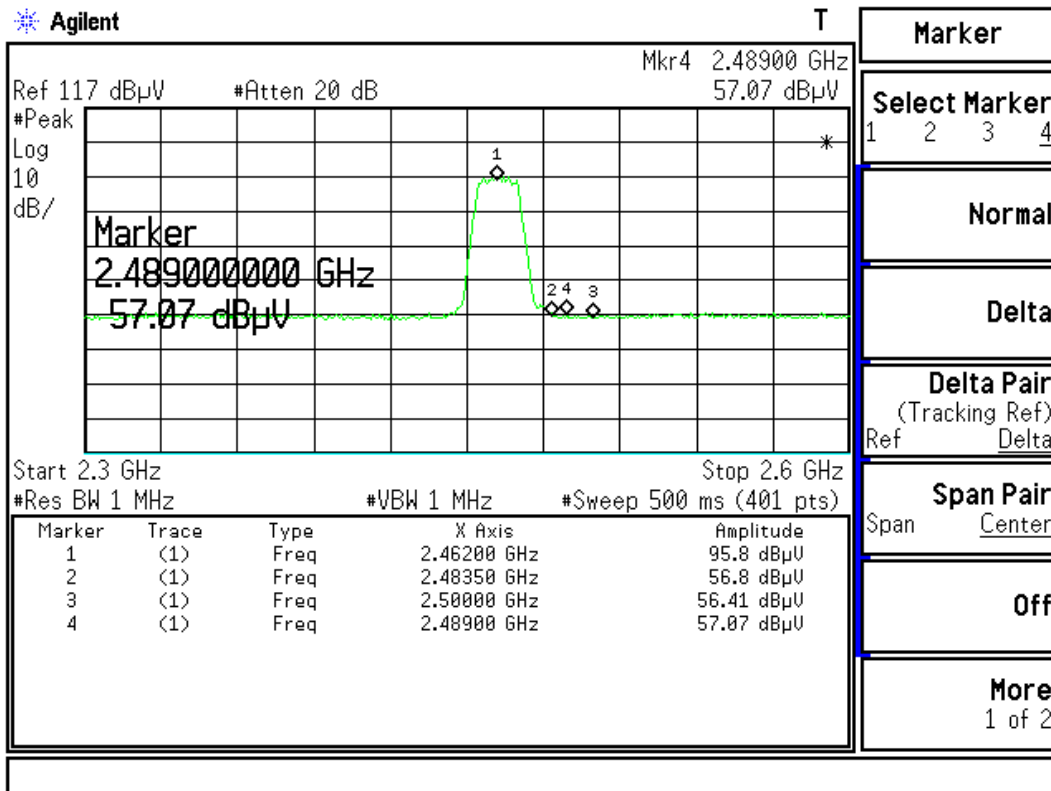


Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2489.000	57.07	52.39	74.00	54.00	Pass
11(Average)	--	--	--	74.00	54.00	Pass

**Figure Channel 11:** (Horizontal)

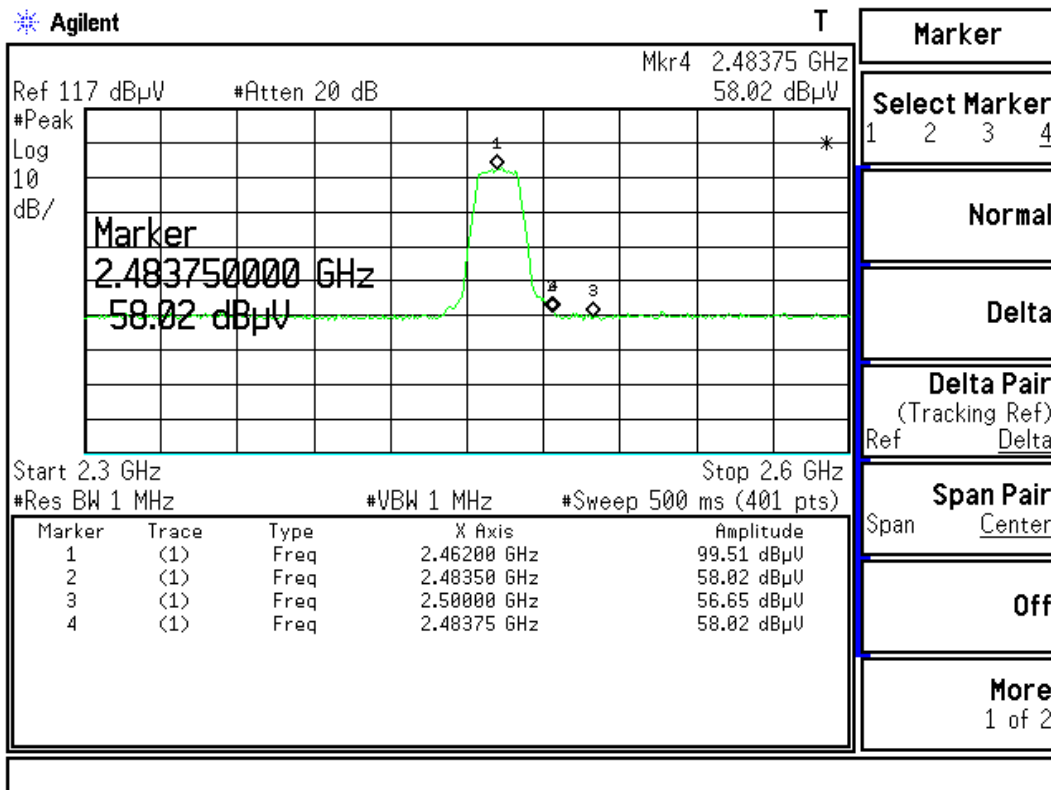


Product : Notebook  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2483.750	58.02	53.34	74.00	54.00	Pass
11(Average)	--	--	--	74.00	54.00	Pass

**Figure Channel 11:** (Vertical)



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

## 6. Occupied Bandwidth

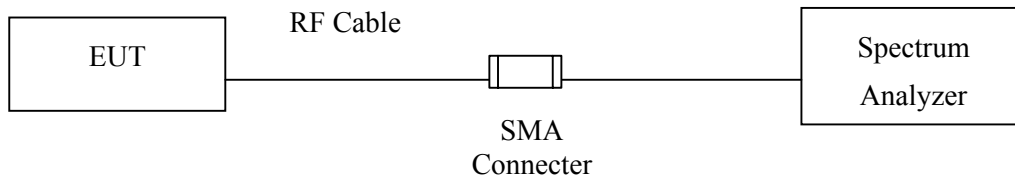
### 6.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2005

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.  
 2. Mark "X" test instruments are used to measure the final test results.

### 6.2. Test Setup



### 6.3. Limits

The minimum bandwidth shall be at least 500kHz.

### 6.4. Uncertainty

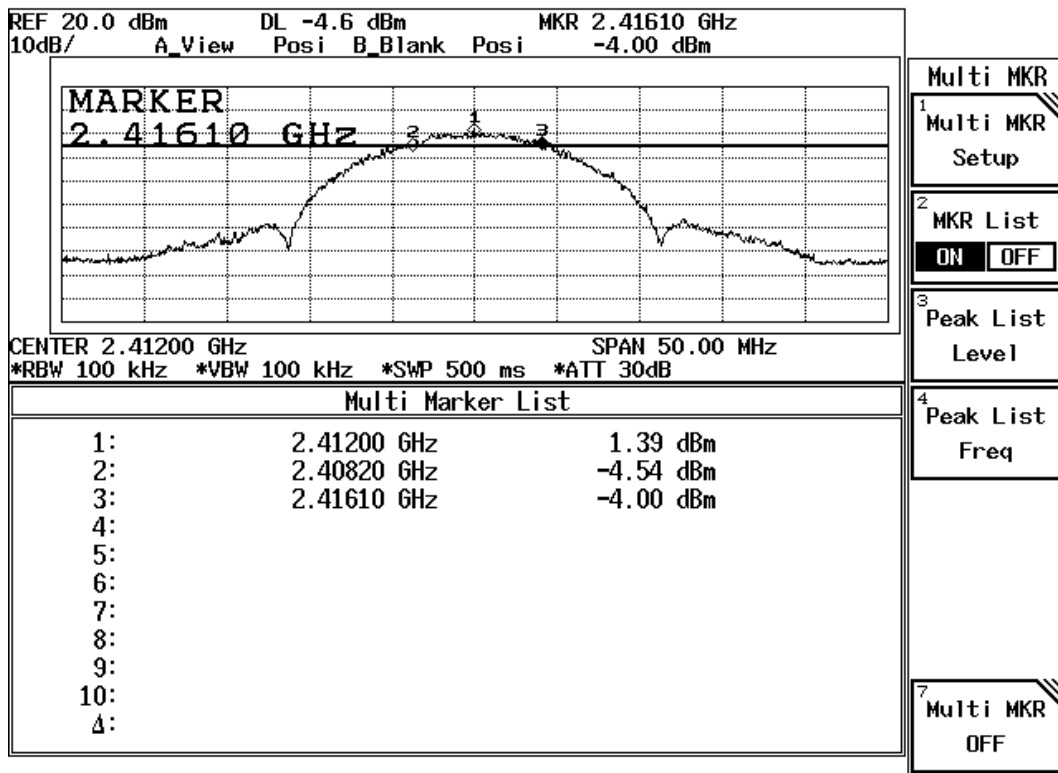
The measurement uncertainty is defined as  $\pm 1.27$  dB

### 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 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (11Mbps)	2412	7900	>500	Pass

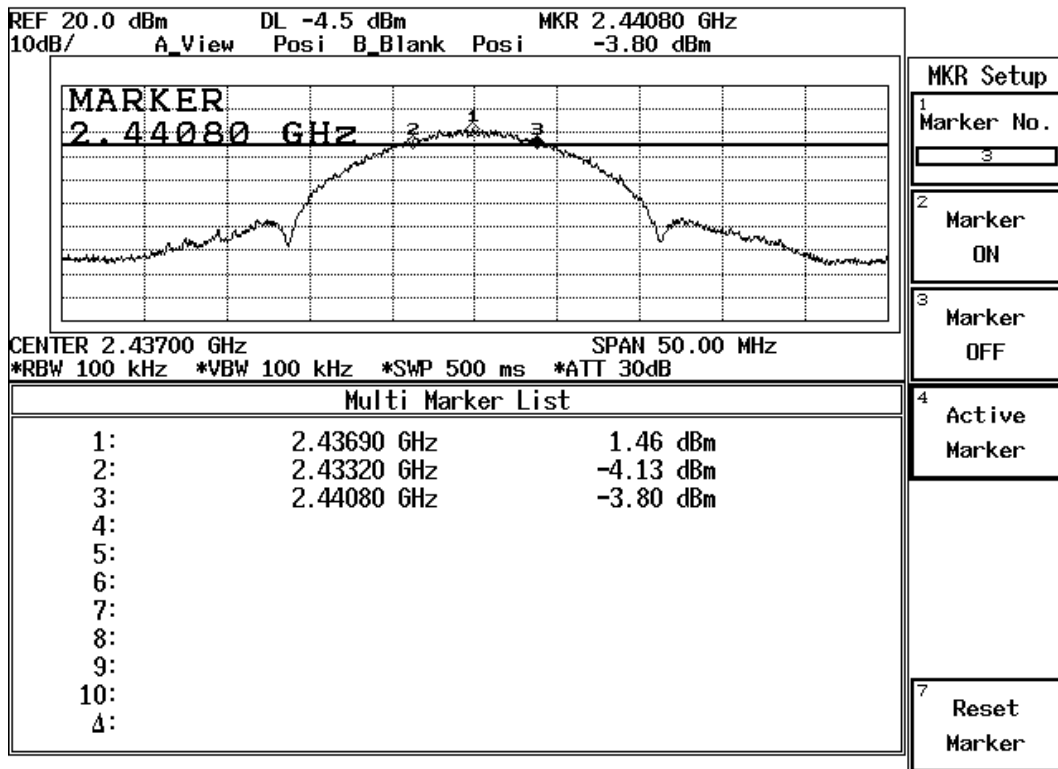
Figure Channel 1: 11Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (11Mbps)	2437	7600	>500	Pass

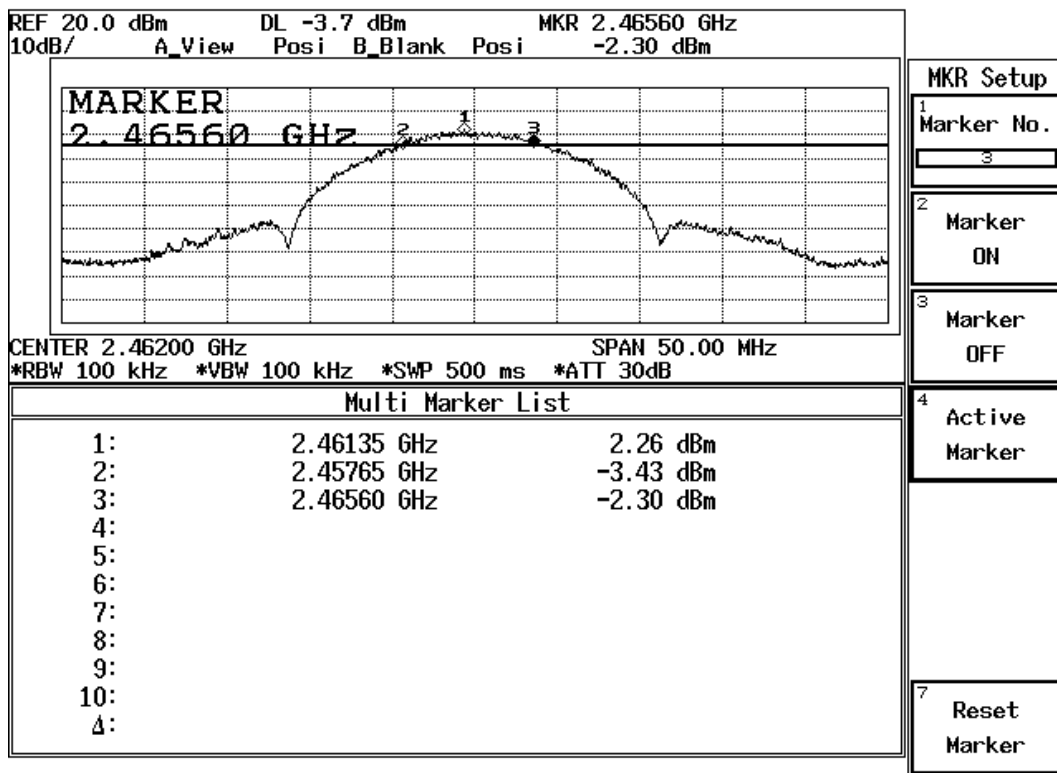
Figure Channel 6: 11Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (11Mbps)	2462	7950	>500	Pass

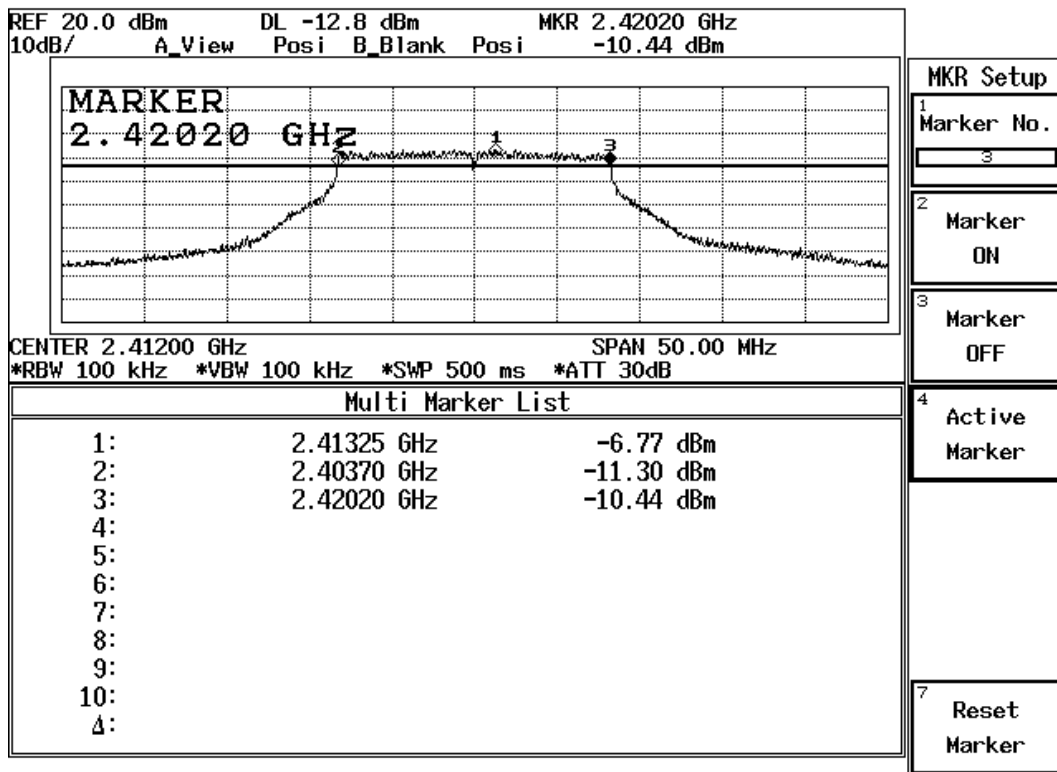
Figure Channel 11: 11Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (54Mbps)	2412	16500	>500	Pass

**Figure Channel 1:** 54Mbps

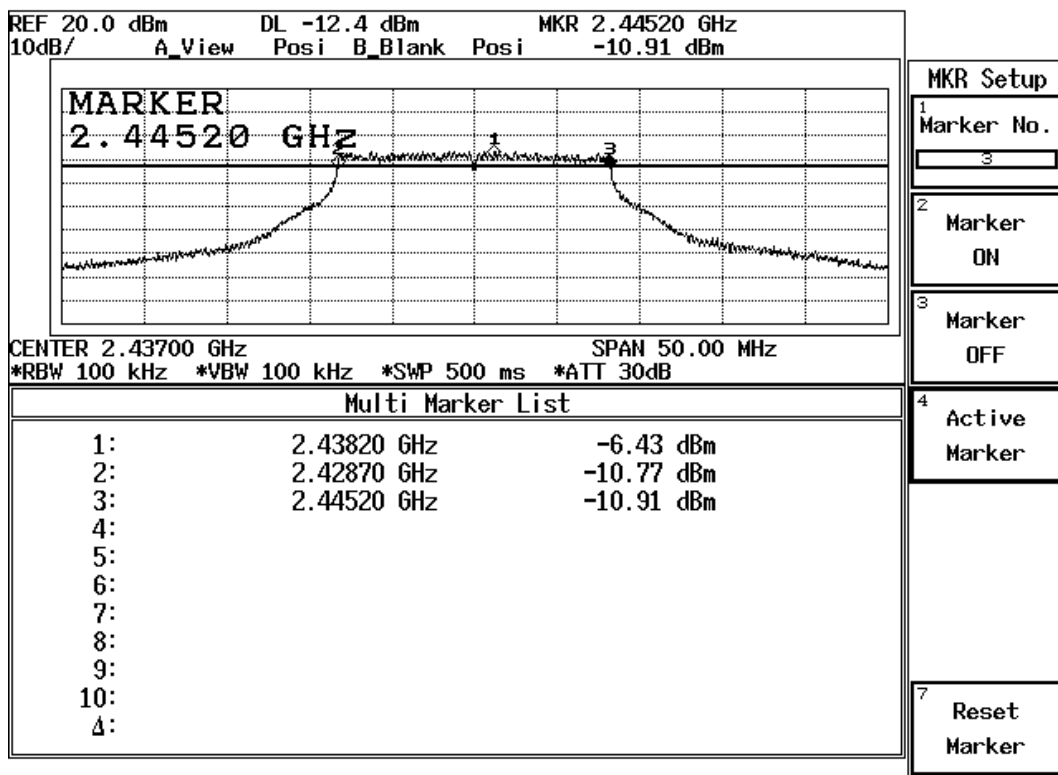




Product : Notebook  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (54Mbps)	2437	16500	>500	Pass

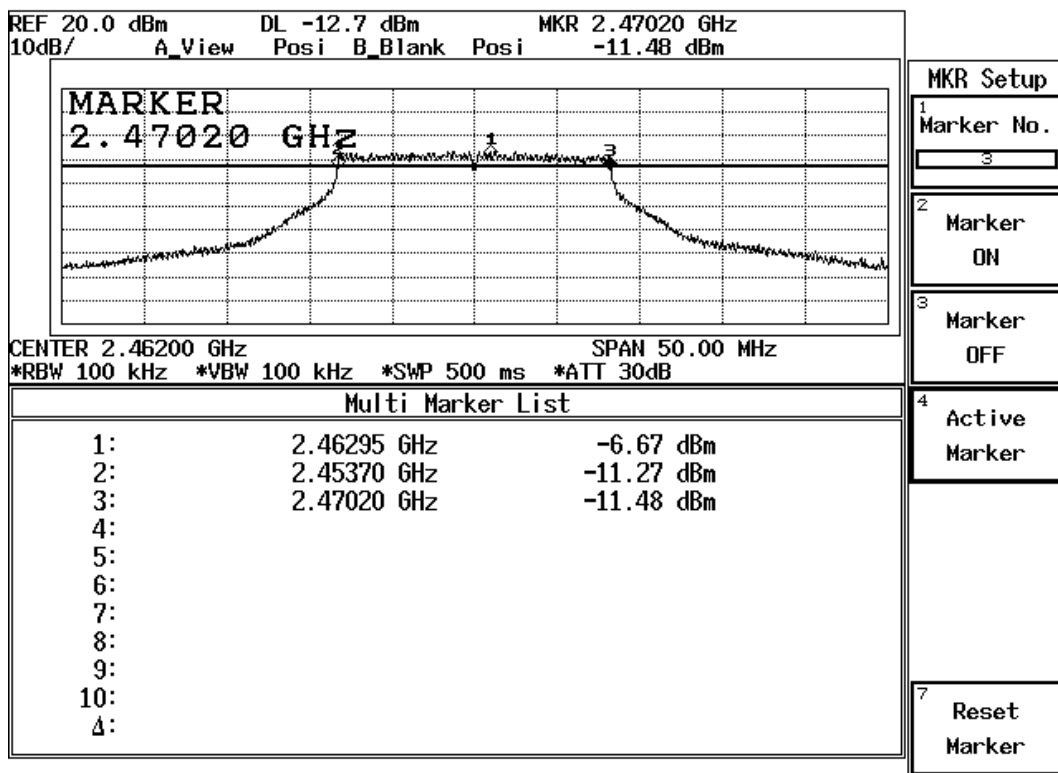
Figure Channel 6: 54Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (54Mbps)	2462	16500	>500	Pass

Figure Channel 11: 54Mbps



**7. Power Density**

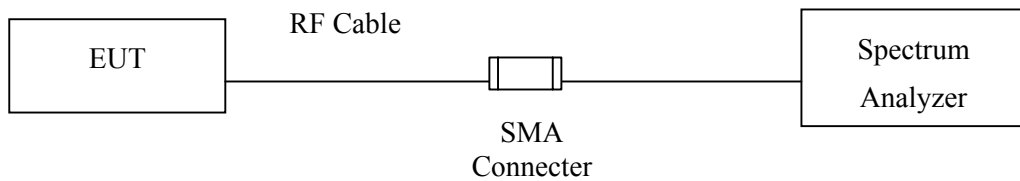
**7.1. Test Equipment**

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2005

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.  
 2. Mark “X” test instruments are used to measure the final test results.

**7.2. Test Setup**



**7.3. Limits**

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

**7.4. Uncertainty**

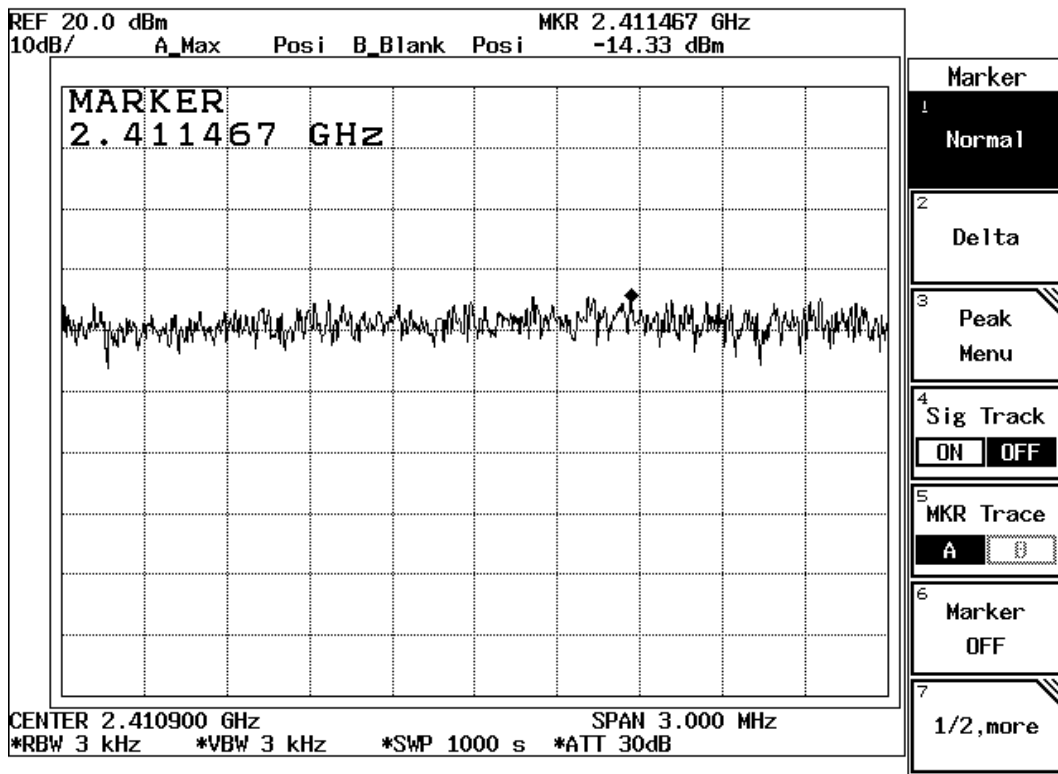
The measurement uncertainty is defined as  $\pm 1.27$  dB

### 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 (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (11Mbps)	2412	-14.33	< 8dBm	Pass

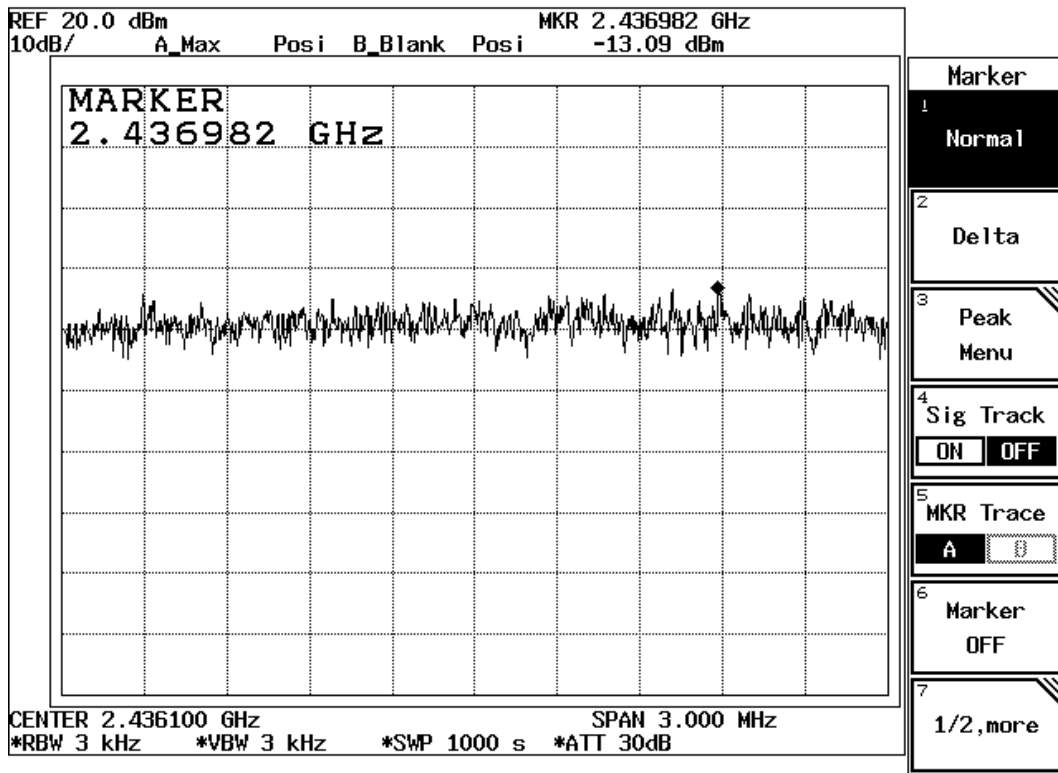
**Figure Channel 1:** 11Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (11Mbps)	2437	-13.09	< 8dBm	Pass

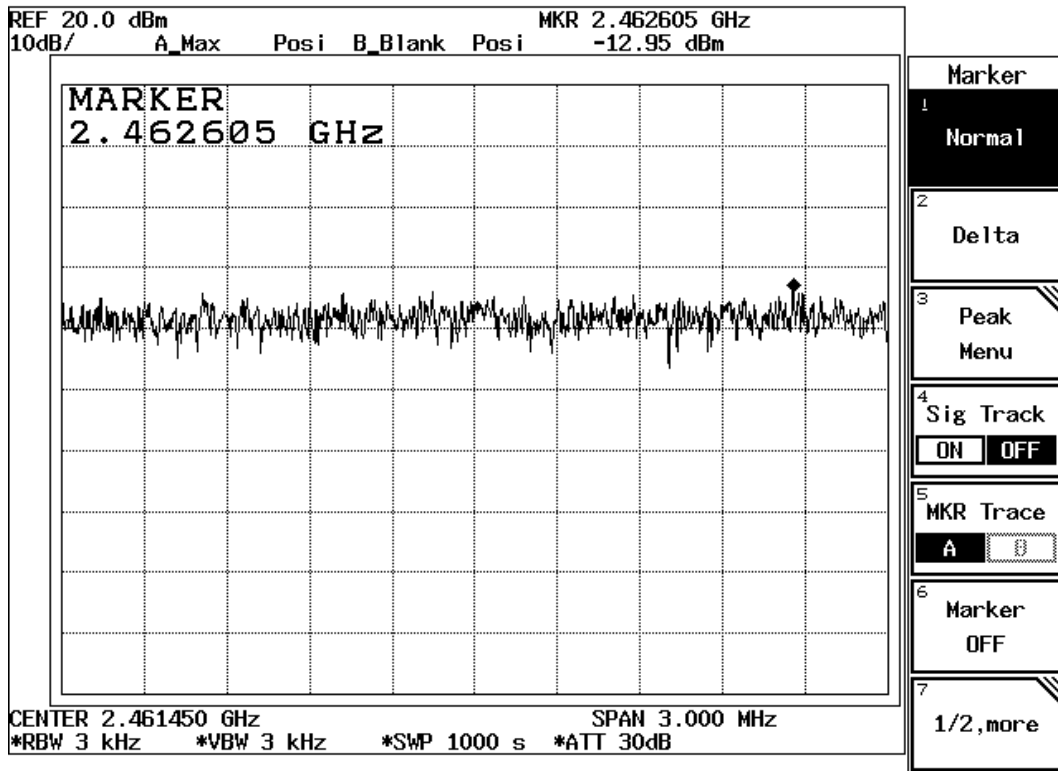
**Figure Channel 6:** 11Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (11Mbps)	2462	-12.95	< 8dBm	Pass

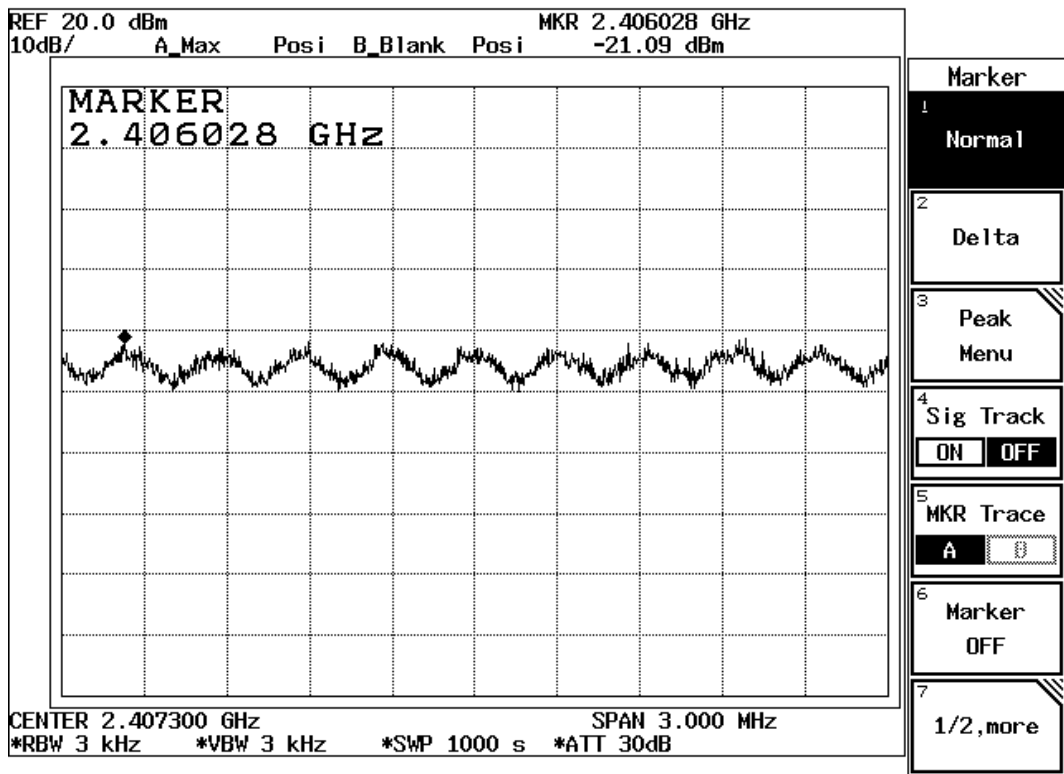
**Figure Channel 11:** 11Mbps



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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (54Mbps)	2412	-21.09	< 8dBm	Pass

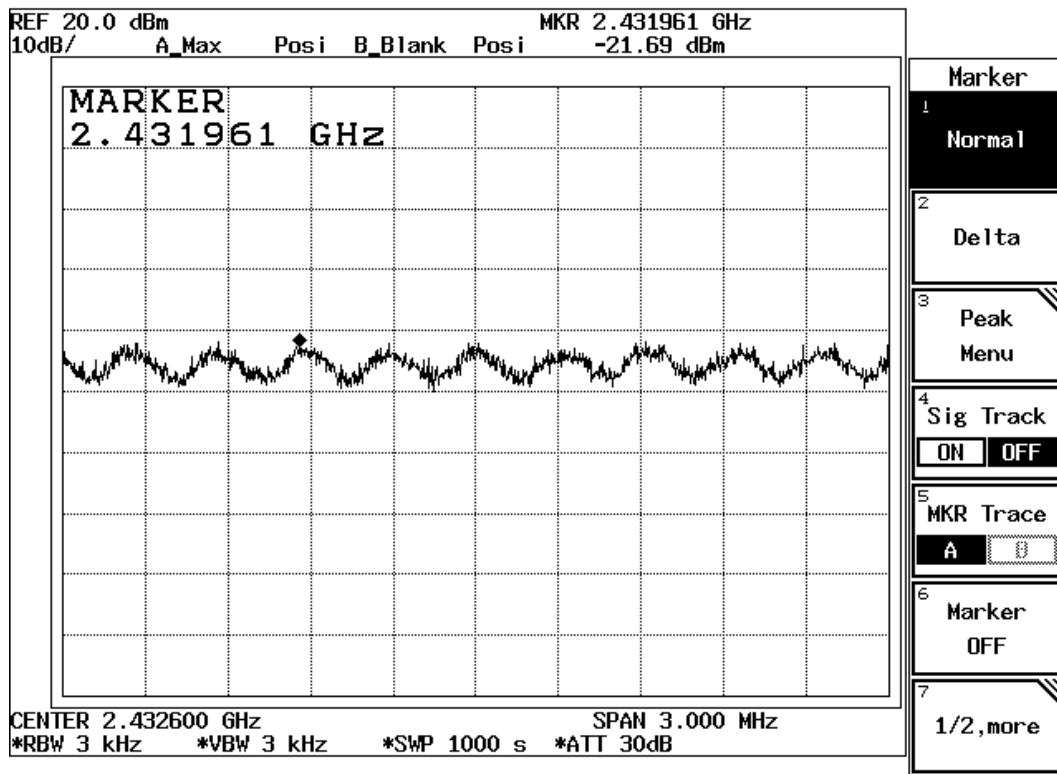
Figure Channel 1: 54Mbps



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

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (54Mbps)	2437	-21.69	< 8dBm	Pass

Figure Channel 6: 54Mbps

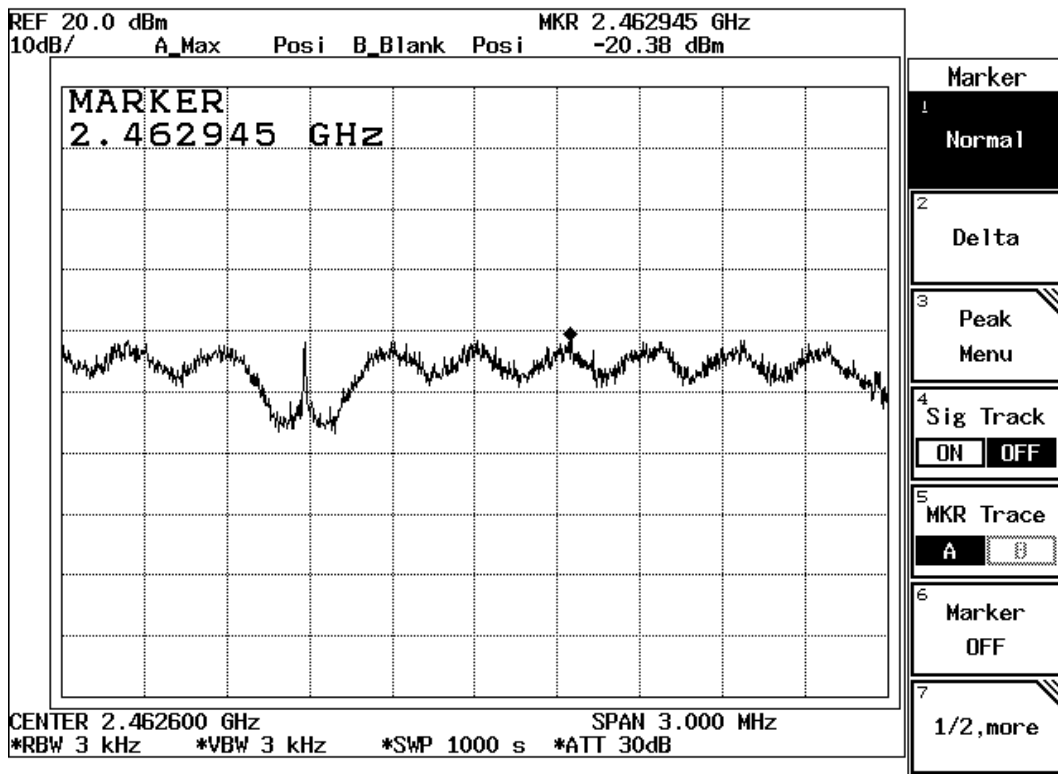




Product : Notebook  
 Test Item : Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11g (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (54Mbps)	2462	-20.38	< 8dBm	Pass

**Figure Channel 11:** 54Mbps



## 8. EMI Reduction Method During Compliance Testing

No modification was made during testing.

## Attachment 1: EUT Test Photographs

**Attachment 1: EUT Test Setup Photographs**

Front View of Conducted Test



Back View of Conducted Test



Front View of Radiated Test



Back View of Radiated Test



Front View of Radiated Test (Horn)



Back View of Radiated Test (Horn)



## Attachment 2: EUT Detailed Photographs

**Attachment 2 : EUT Detailed Photographs**

(1) EUT Photo



(2) EUT Photo





(3) EUT Photo



(4) EUT Photo



(5) EUT Photo



(6) EUT Photo



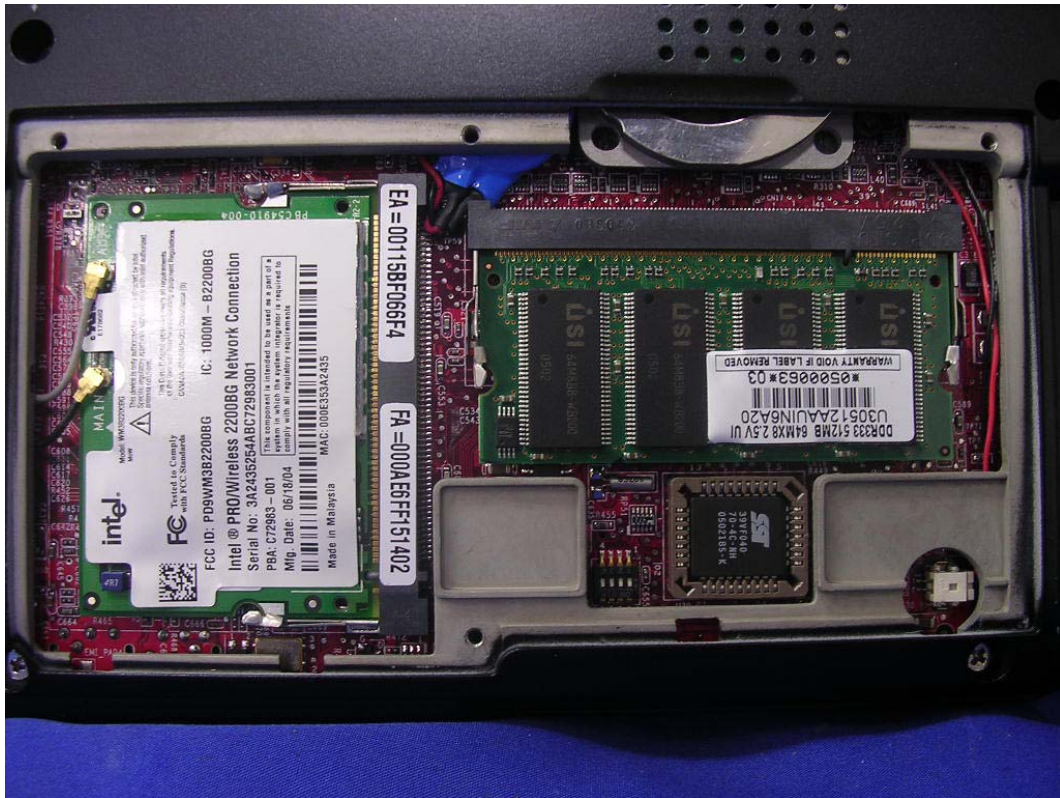
(7) EUT Photo



(8) EUT Photo



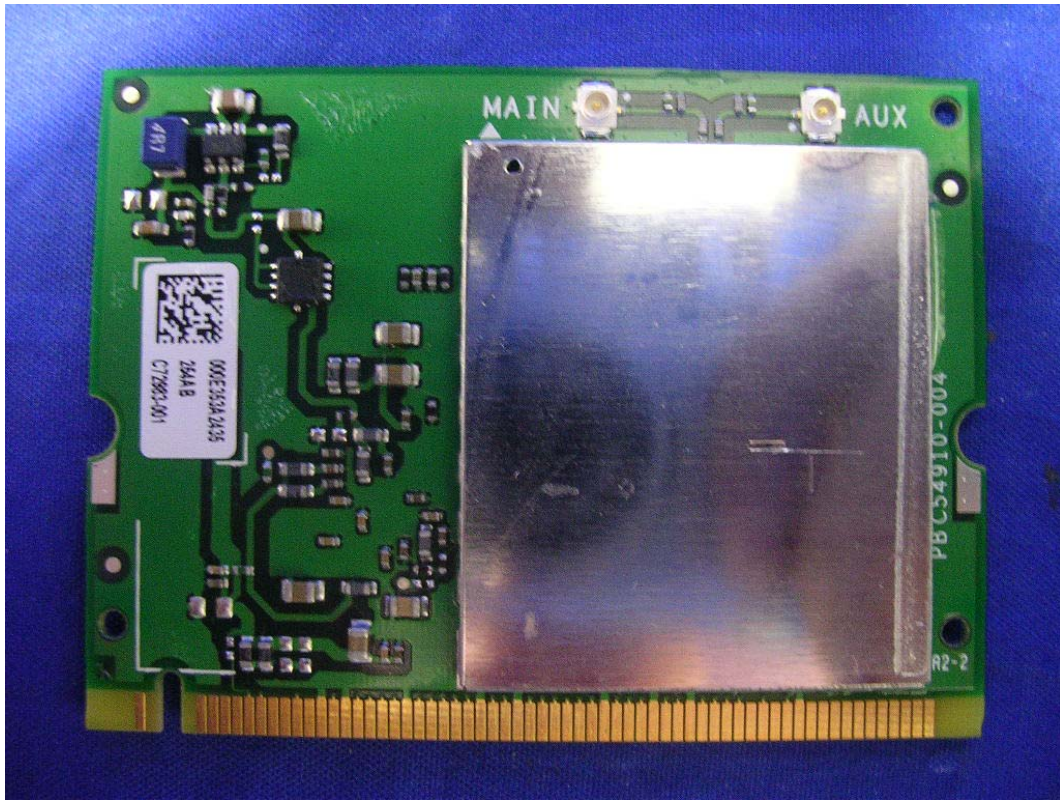
(9) EUT Photo



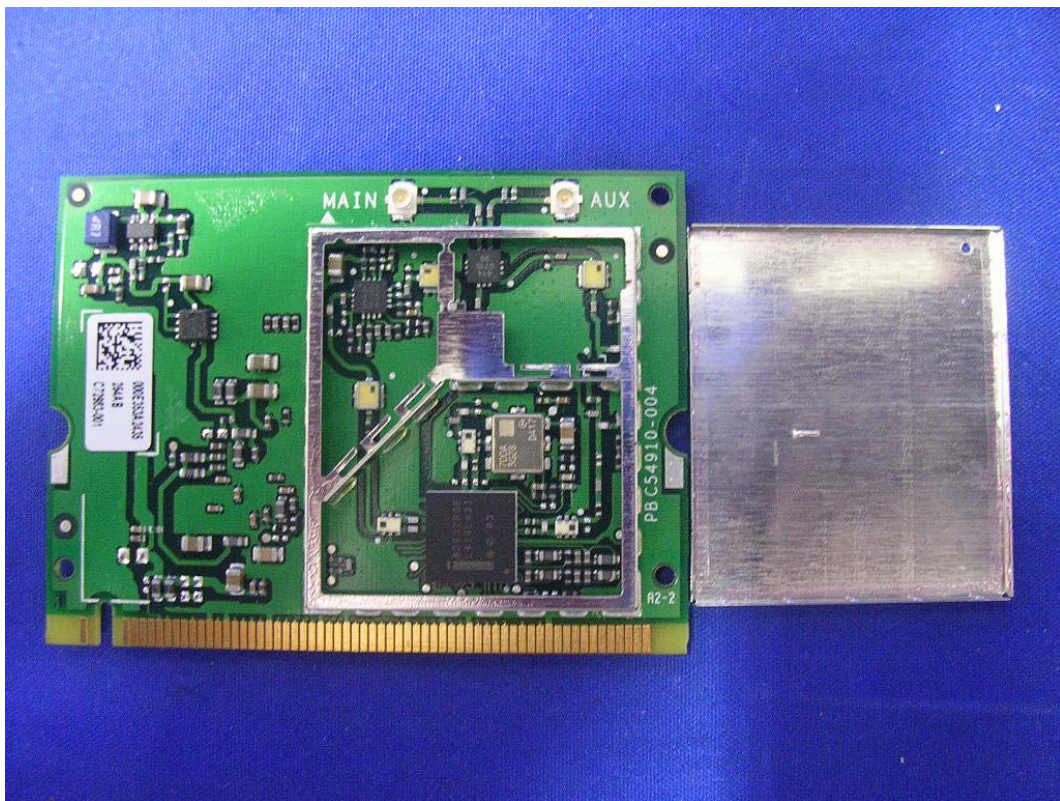
(10) EUT Photo



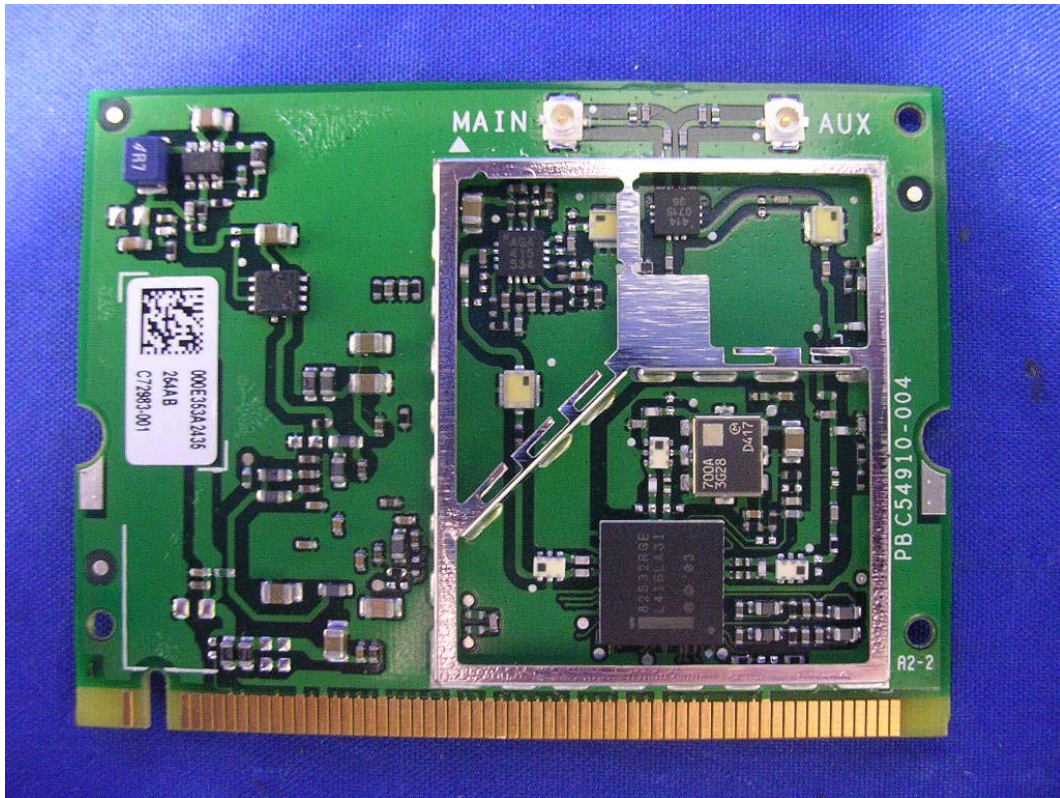
(11) EUT Photo



(12) EUT Photo



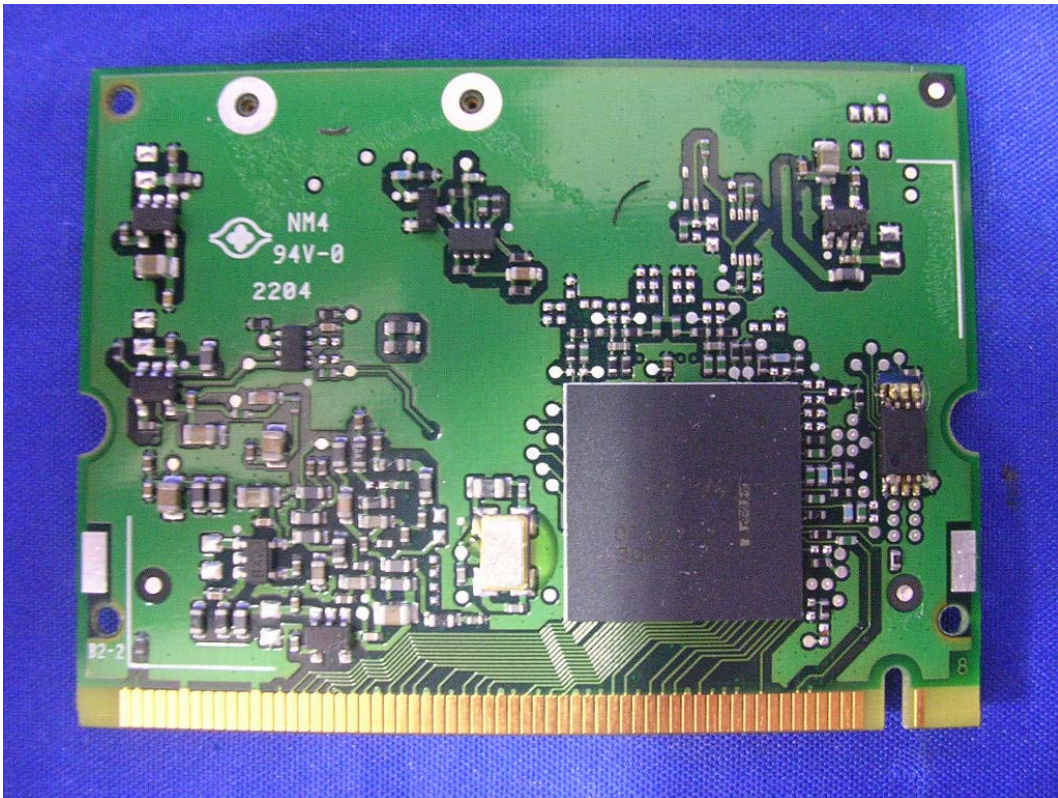
(13) EUT Photo



(14) EUT Photo



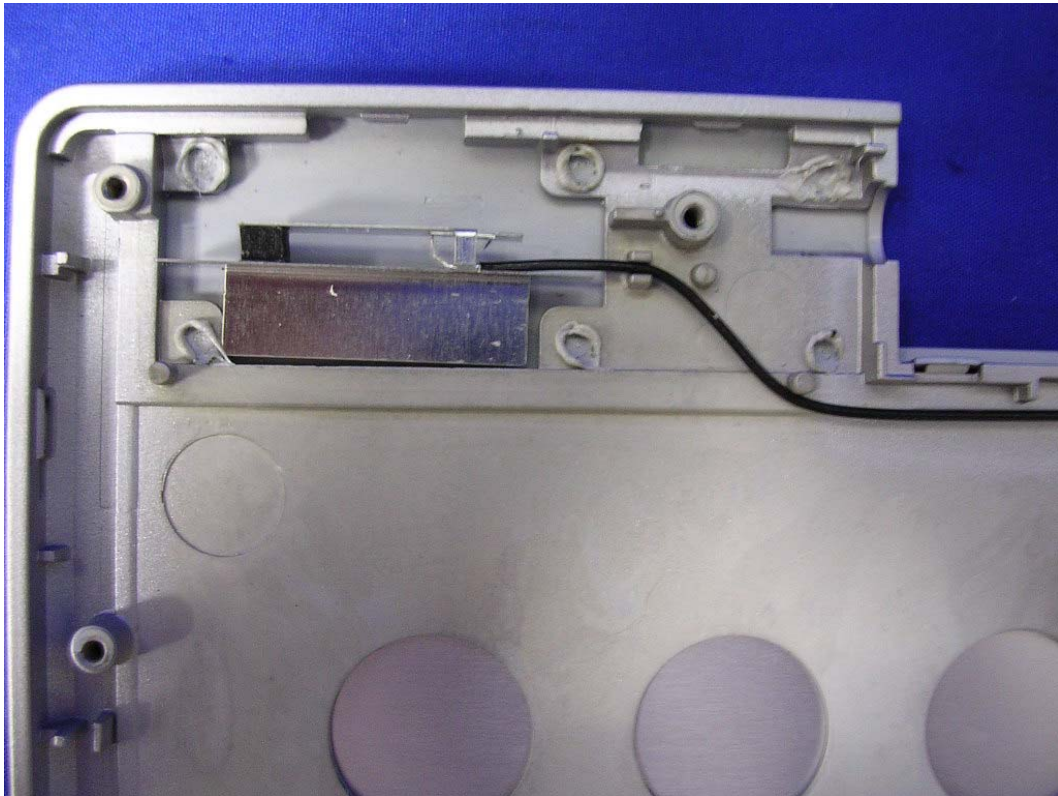
(15) EUT Photo



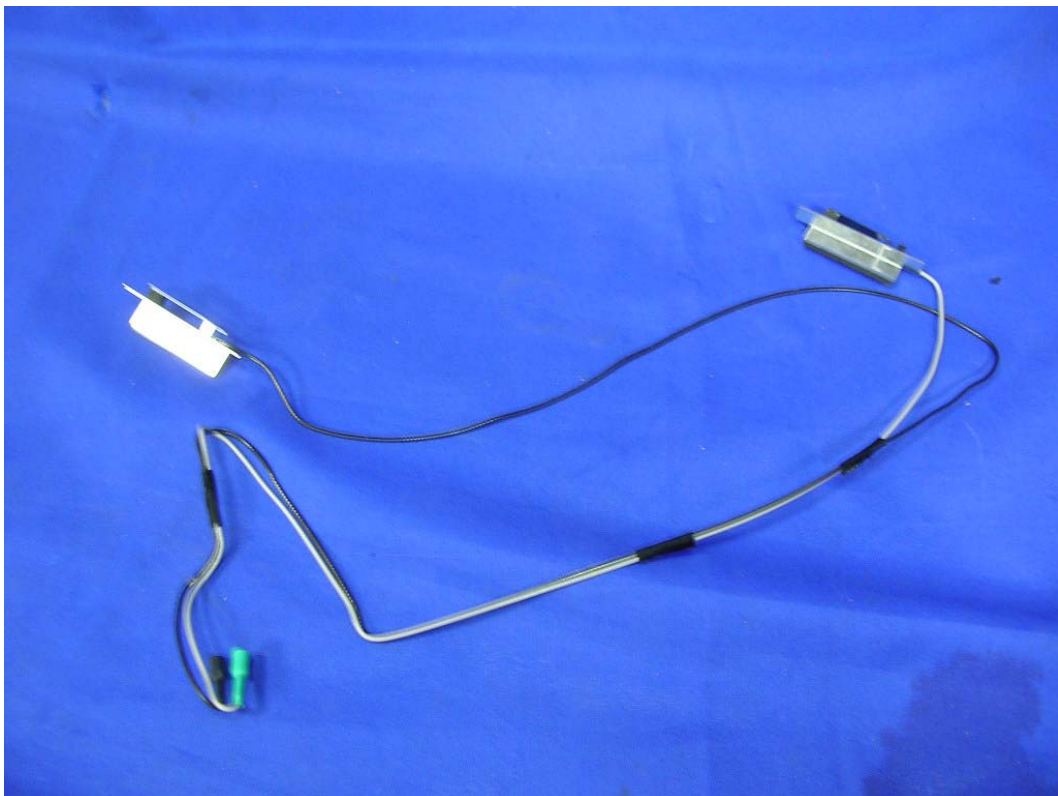
(16) EUT Photo



(17) EUT Photo

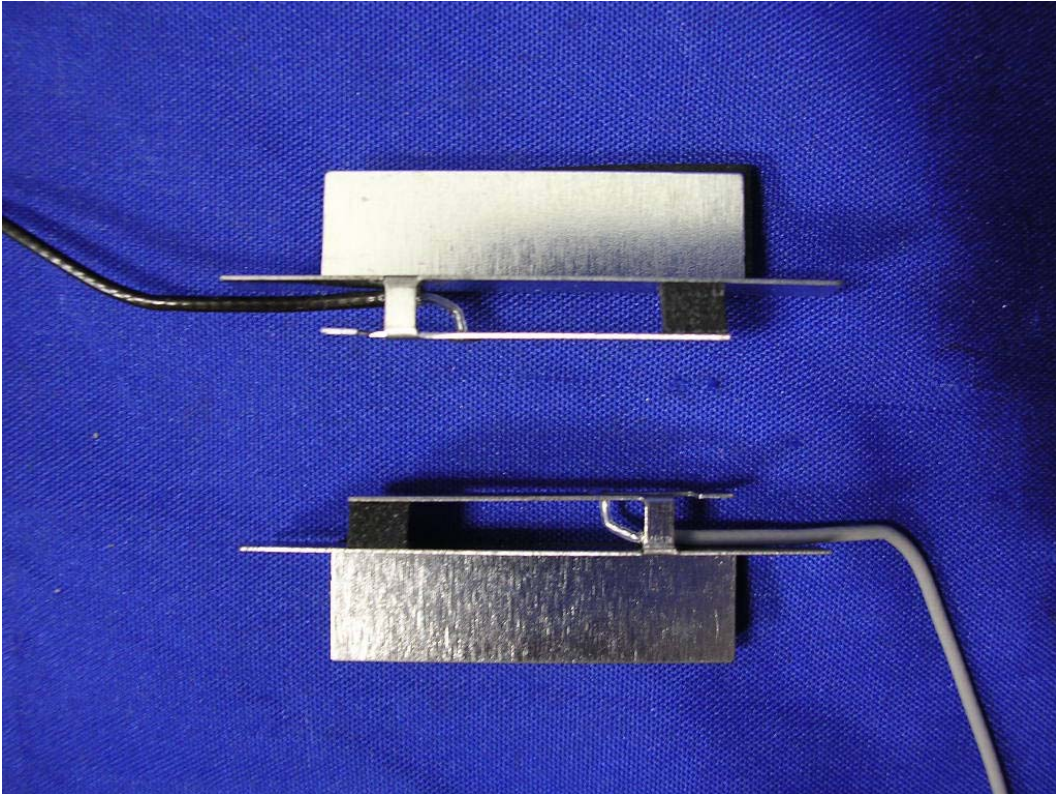


(18) EUT Photo

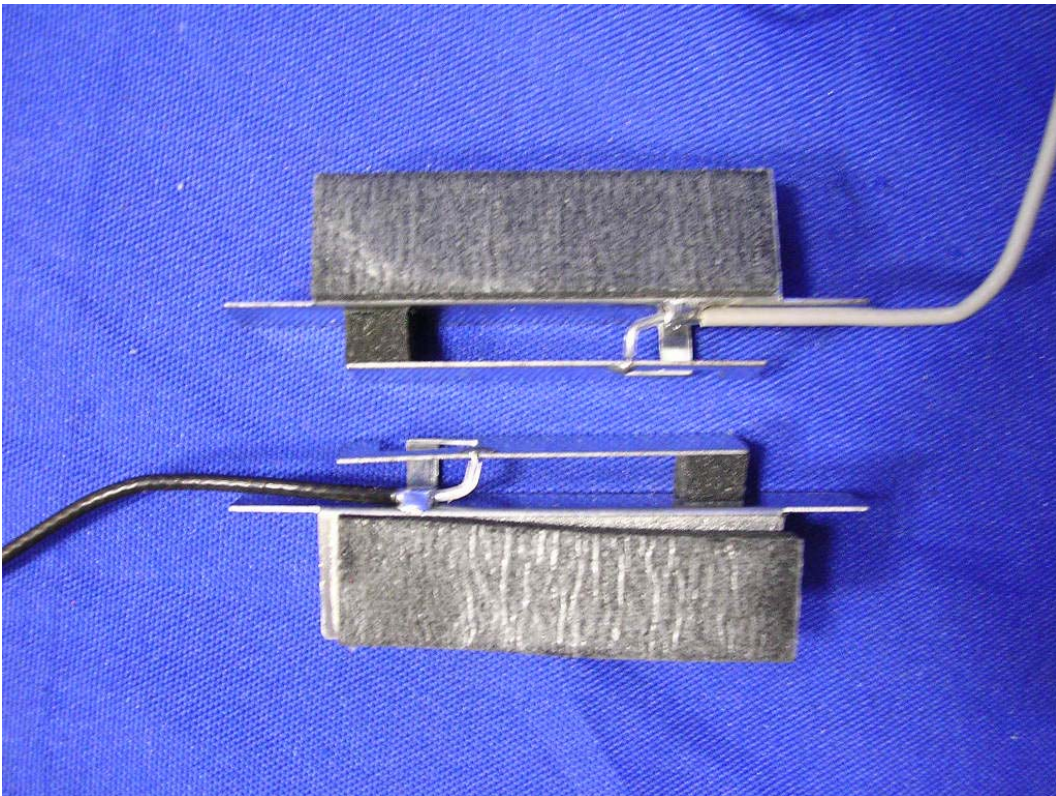




(19) EUT Photo



(20) EUT Photo



(21) EUT Photo

