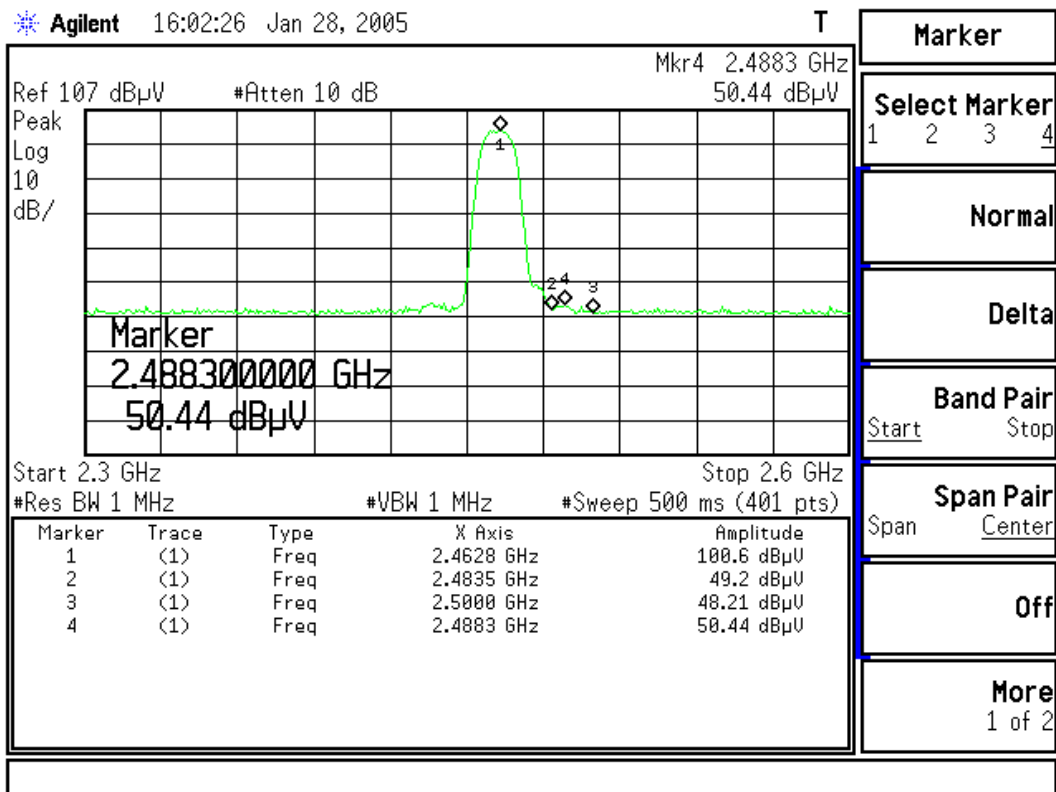


Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 11Mbps

**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)	2488.300	50.44	45.86	74.00	54.00	Pass
11(Average)	--	--	--	74.00	54.00	Pass

**Figure Channel 11:** (Vertical)

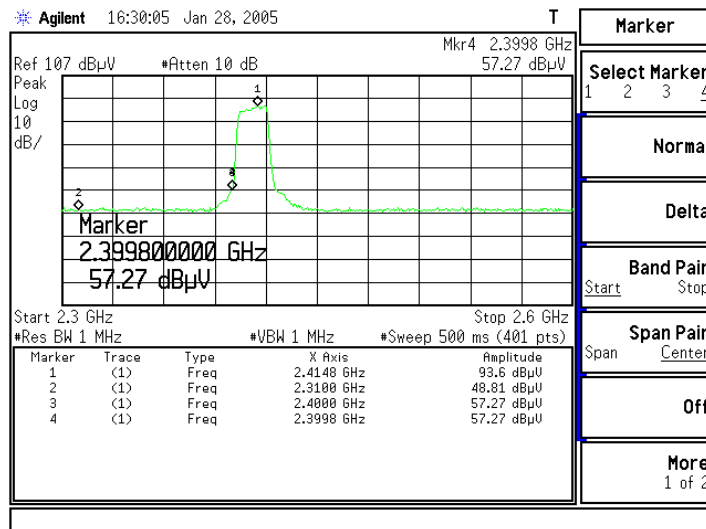


Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 54Mbps

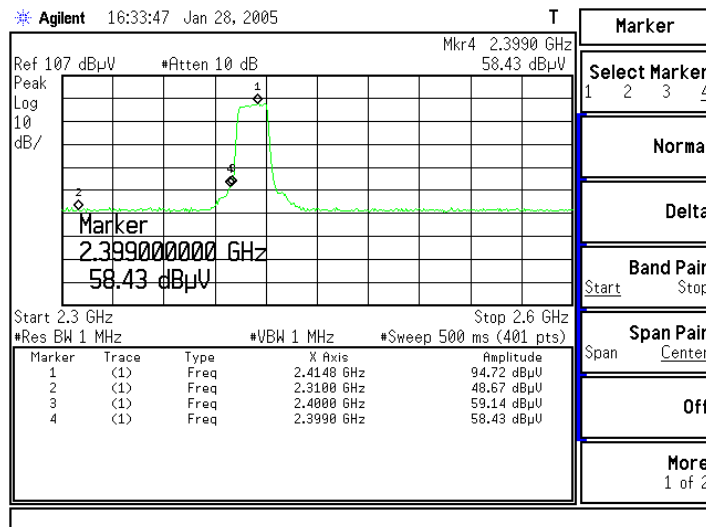
**RF Radiated Measurement:**

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

**Figure Channel 1:** (Horizontal)



**Figure Channel 1:** (Vertical)

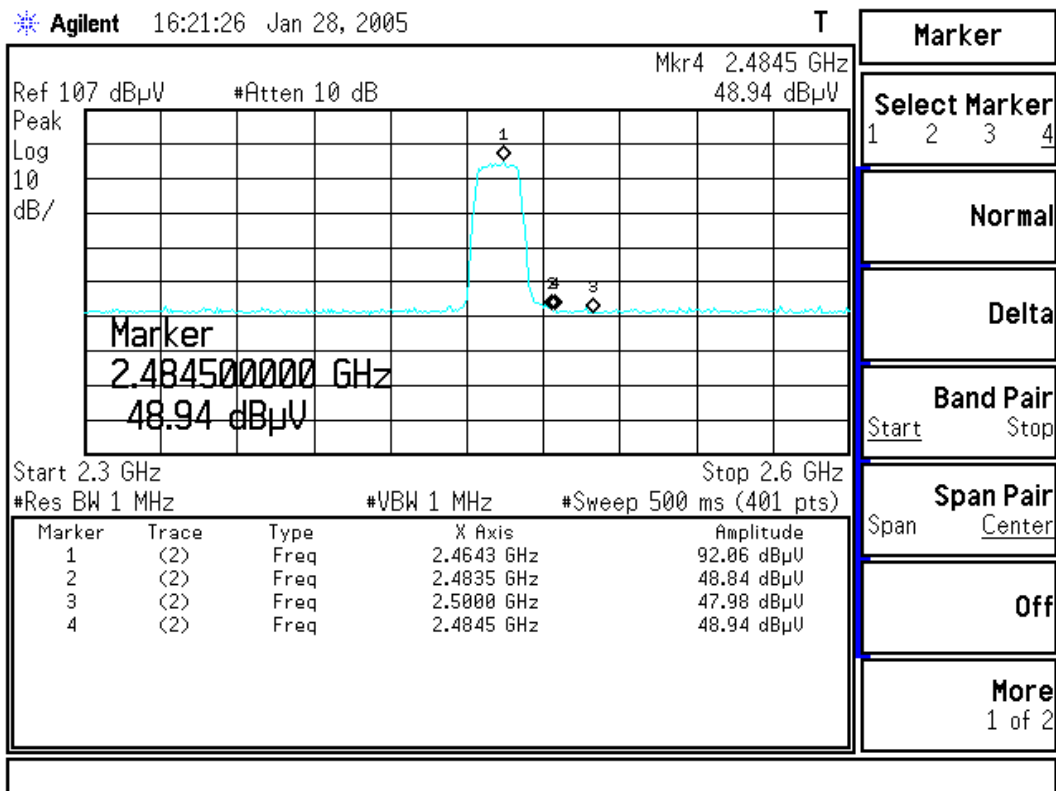


Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 54Mbps

**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)	2484.500	48.94	44.28	74.00	54.00	Pass
11(Average)	---	--	--	74.00	54.00	Pass

**Figure Channel 11:** (Horizontal)

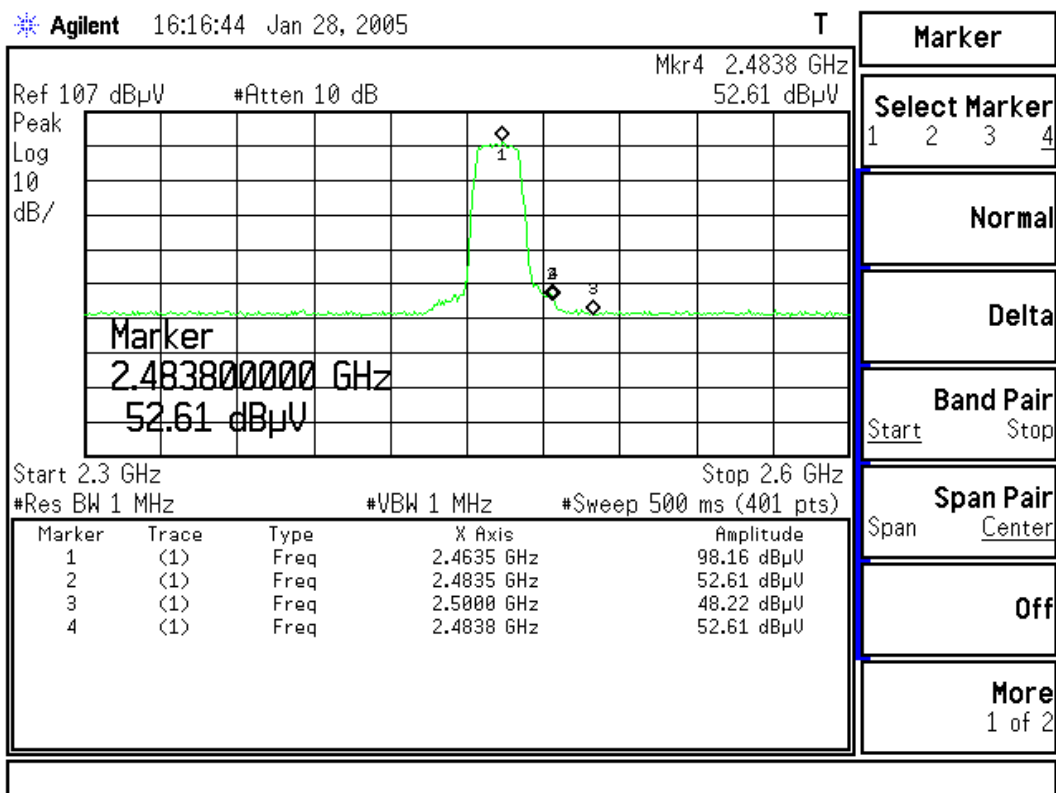


Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 54Mbps

**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)	2483.800	52.61	47.95	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

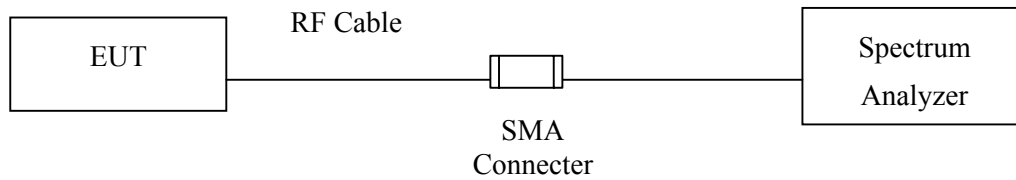
### 6.1. Test Equipment

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, 2004

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

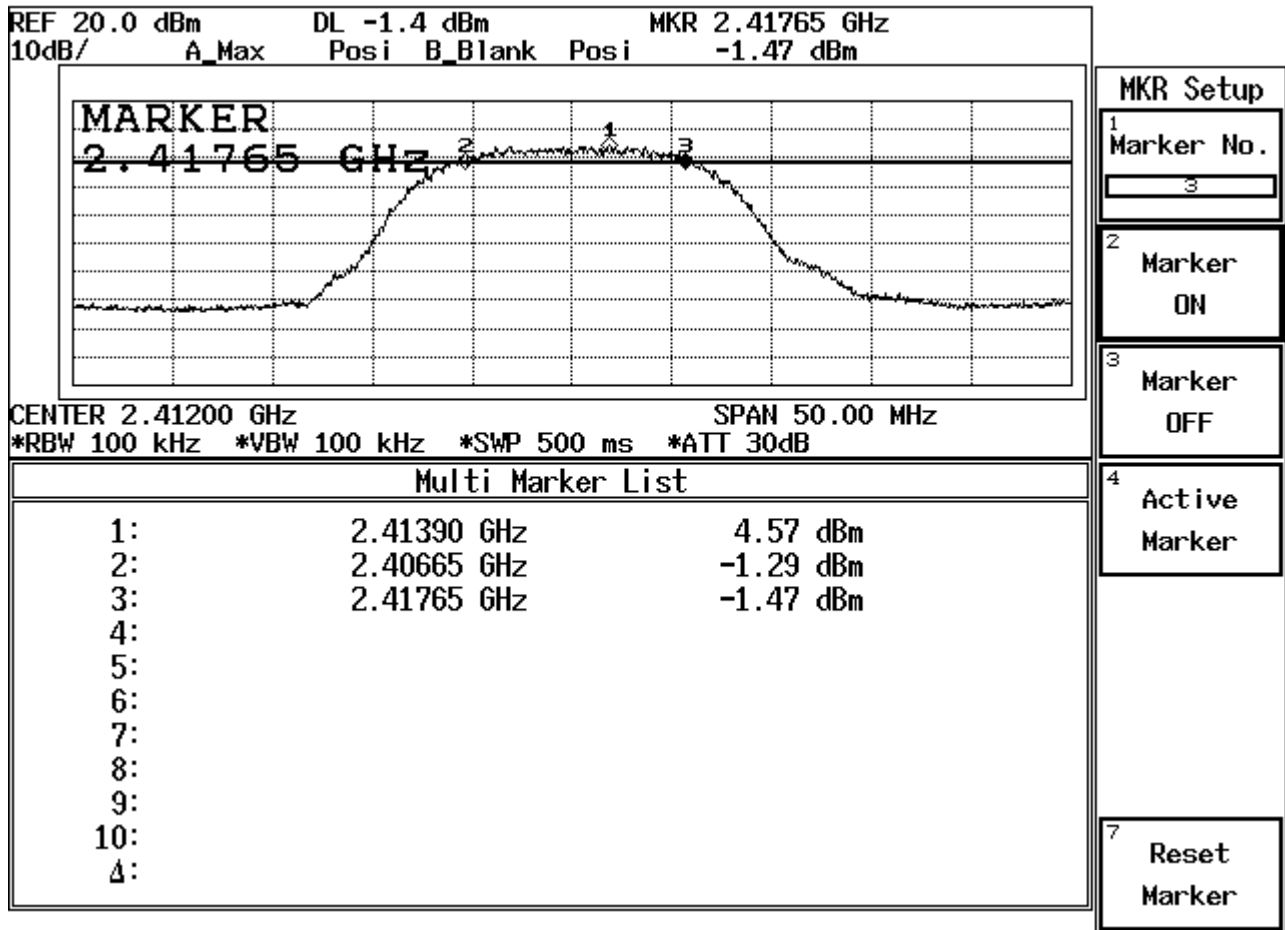
The measurement uncertainty is defined as  $\pm 1.27$  dB

### 6.5. Test Result of Occupied Bandwidth

Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 11Mbps (Channel 1)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (11Mbps)	2412.00	11000	>500	Pass

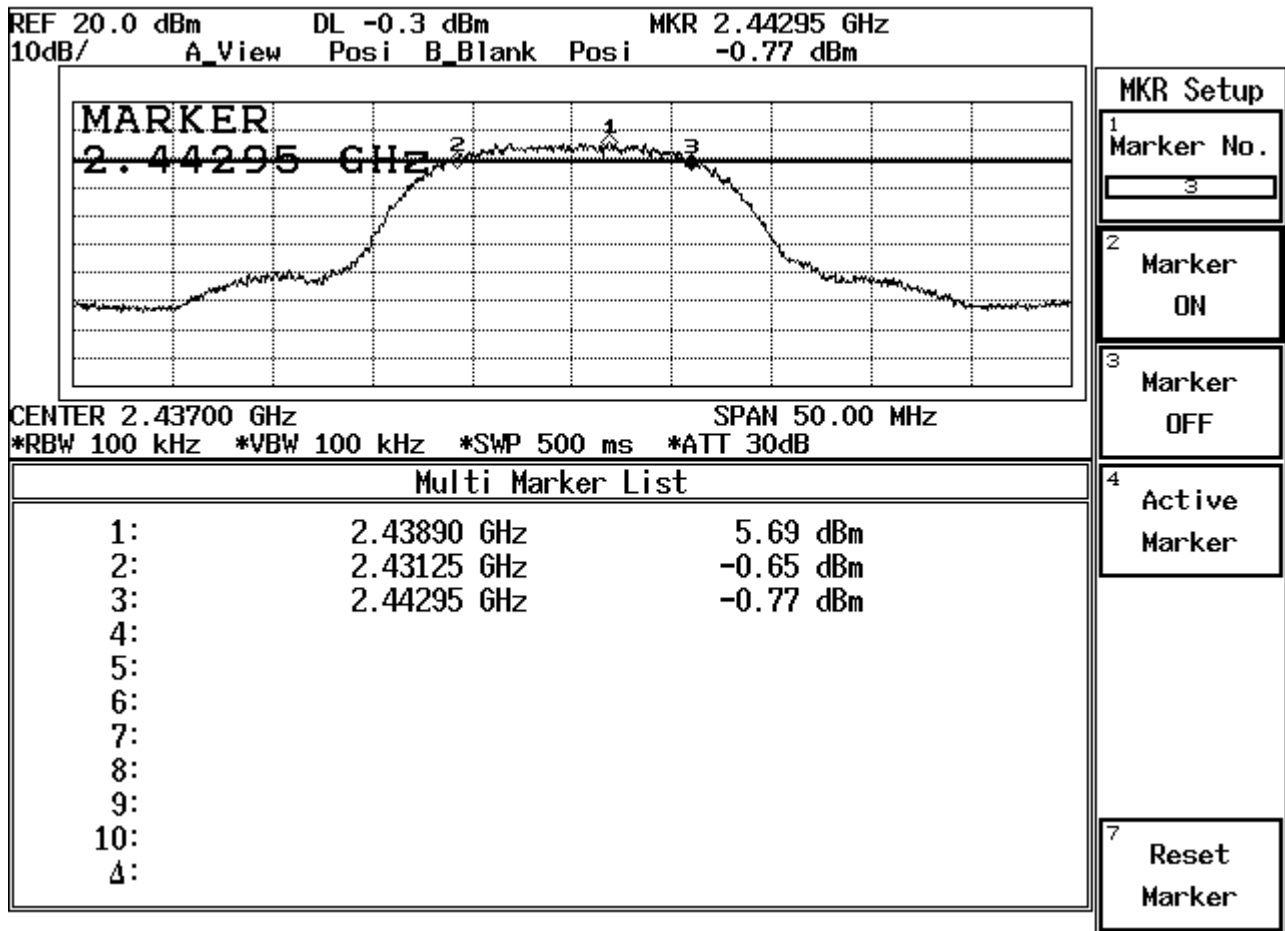
**Figure Channel 1:** 11Mbps



Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 11Mbps (Channel 6)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (11Mbps)	2437.00	11700	>500	Pass

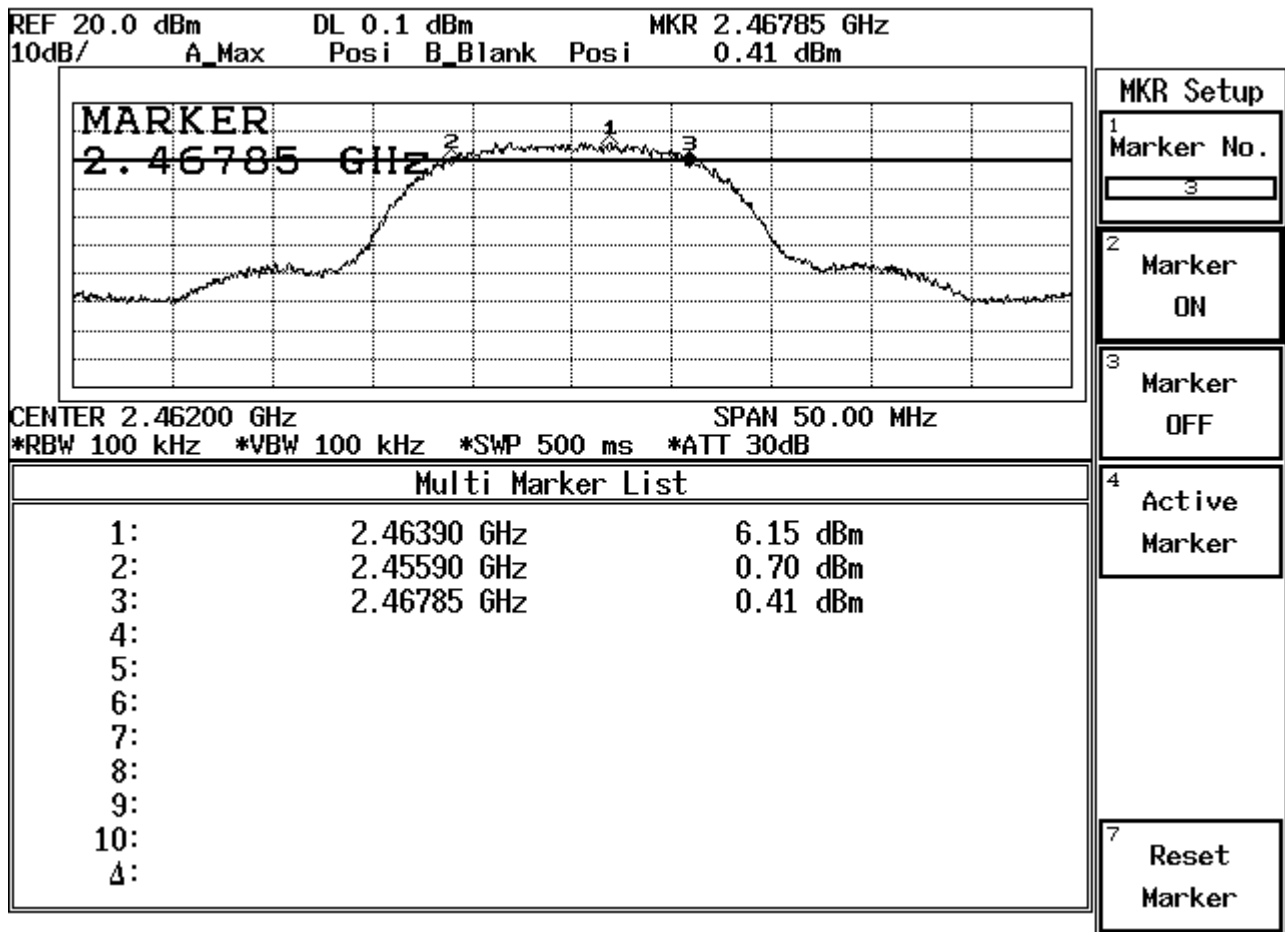
Figure Channel 6: 11Mbps



Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 11Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (11Mbps)	2462	11950	>500	Pass

**Figure Channel 11:** 11Mbps

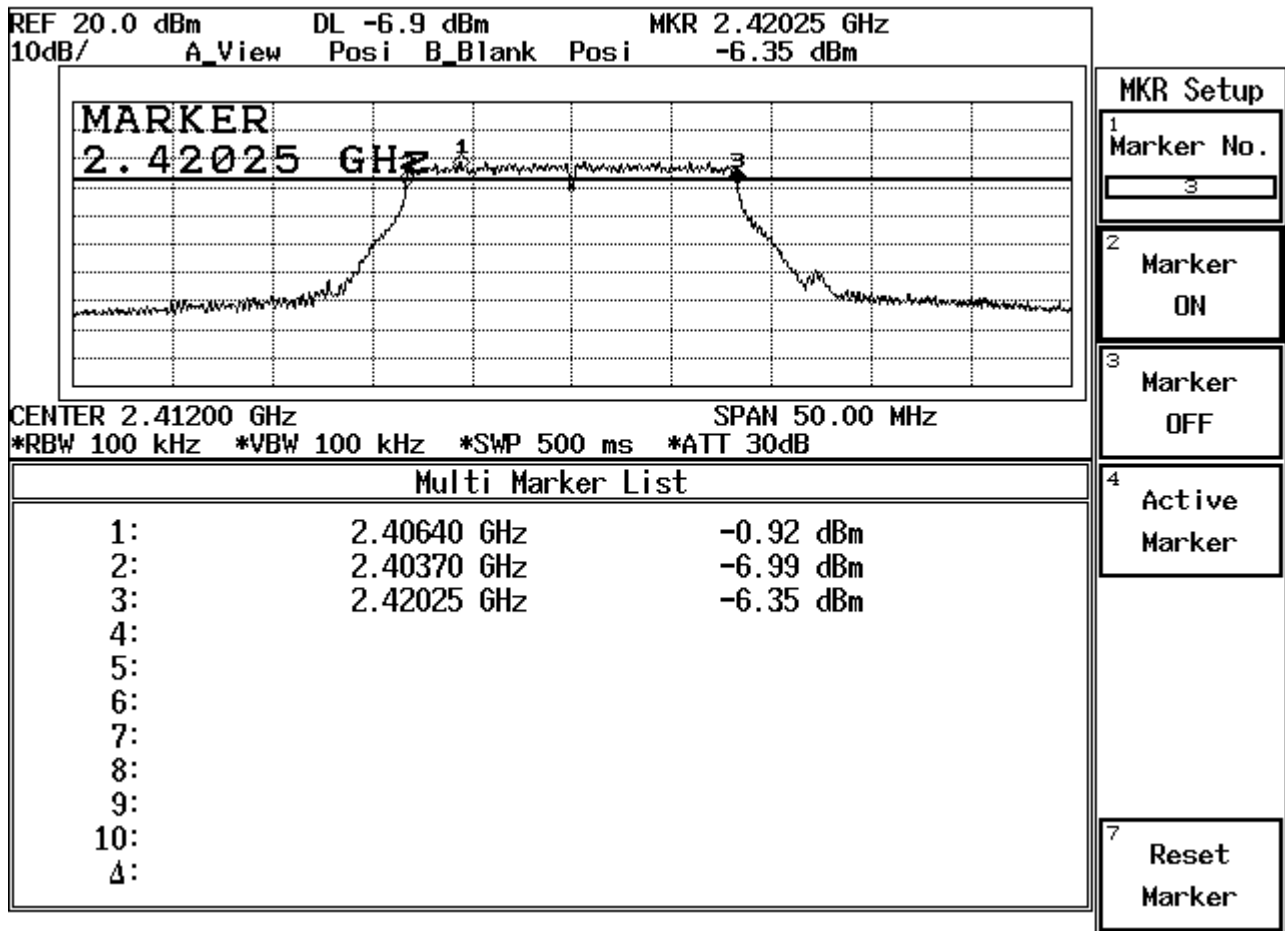




Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 54Mbps (Channel 1)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (54Mbps)	2412	16550	>500	Pass

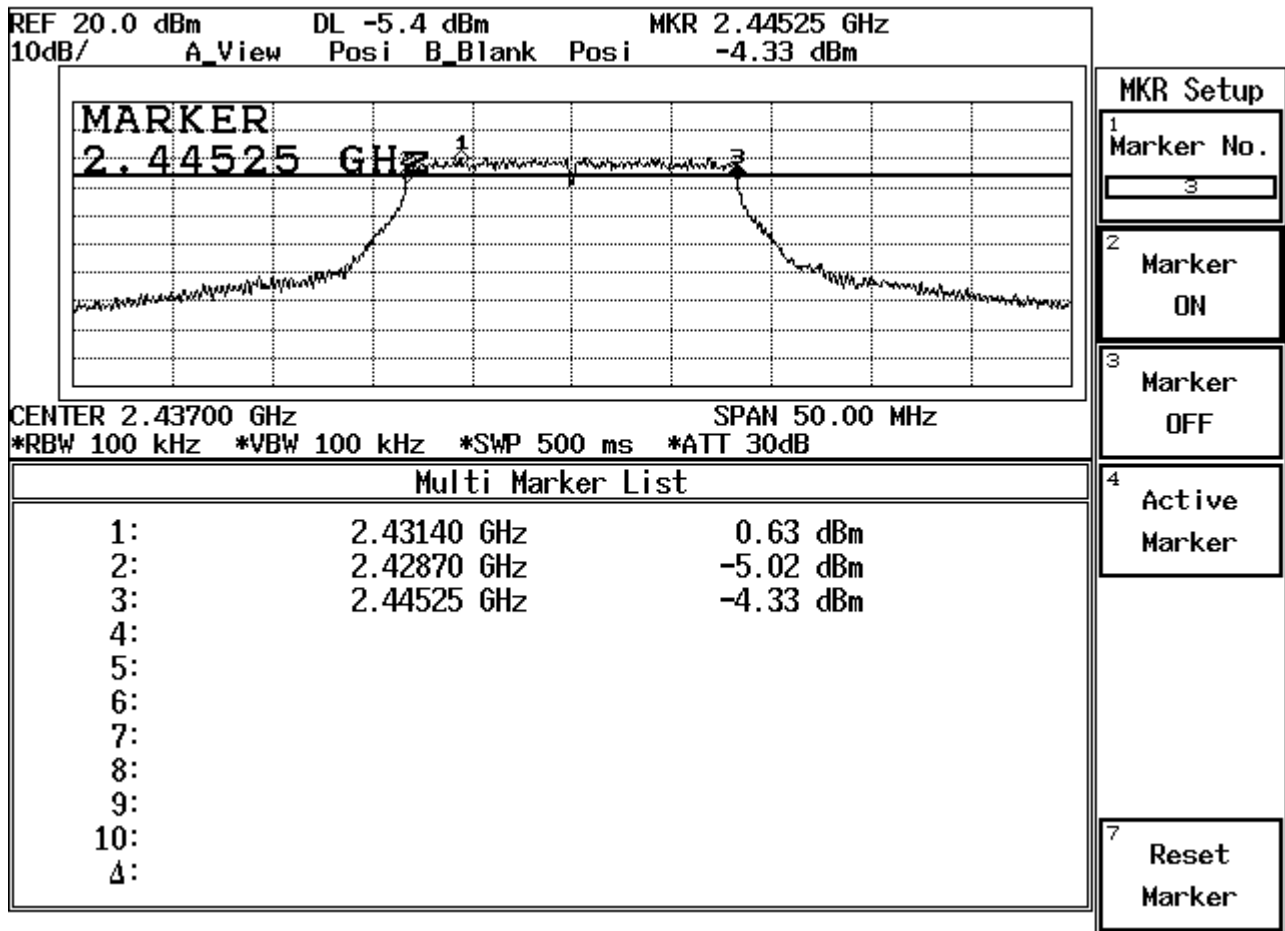
**Figure Channel 1:** 54Mbps



Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 54Mbps (Channel 06)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (54Mbps)	2437	16550	>500	Pass

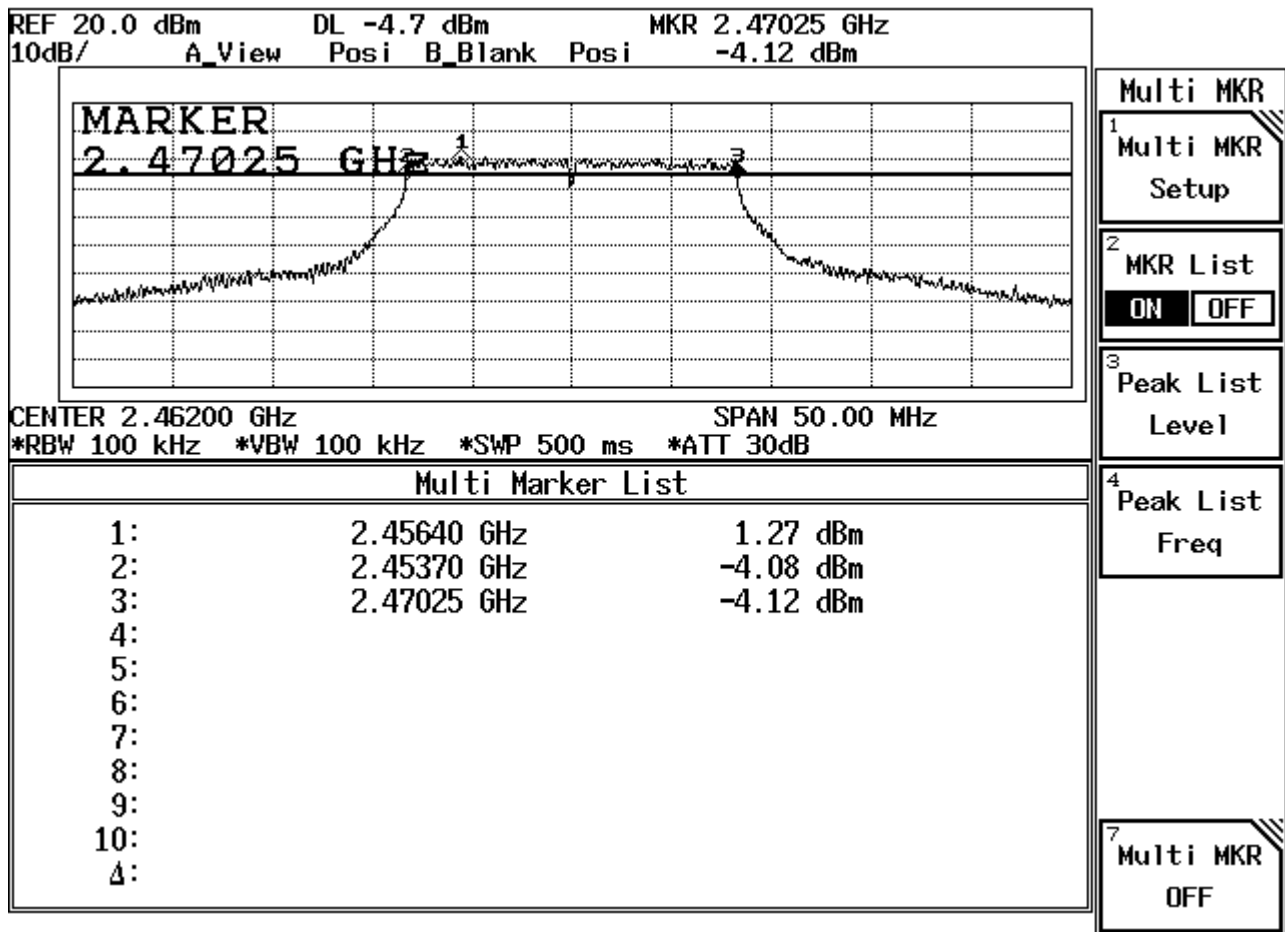
Figure Channel 6: 54Mbps



Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 54Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (54Mbps)	2462	16550	>500	Pass

Figure Channel 11: 54Mbps



**7. Power Density**

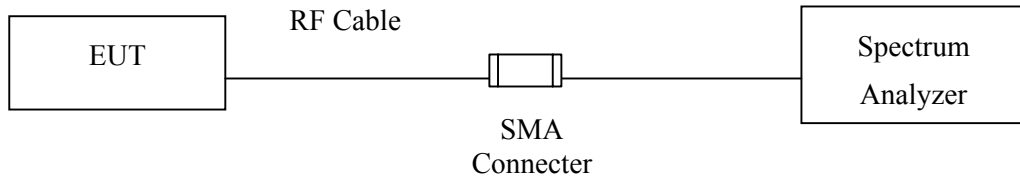
**7.1. Test Equipment**

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, 2004

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**

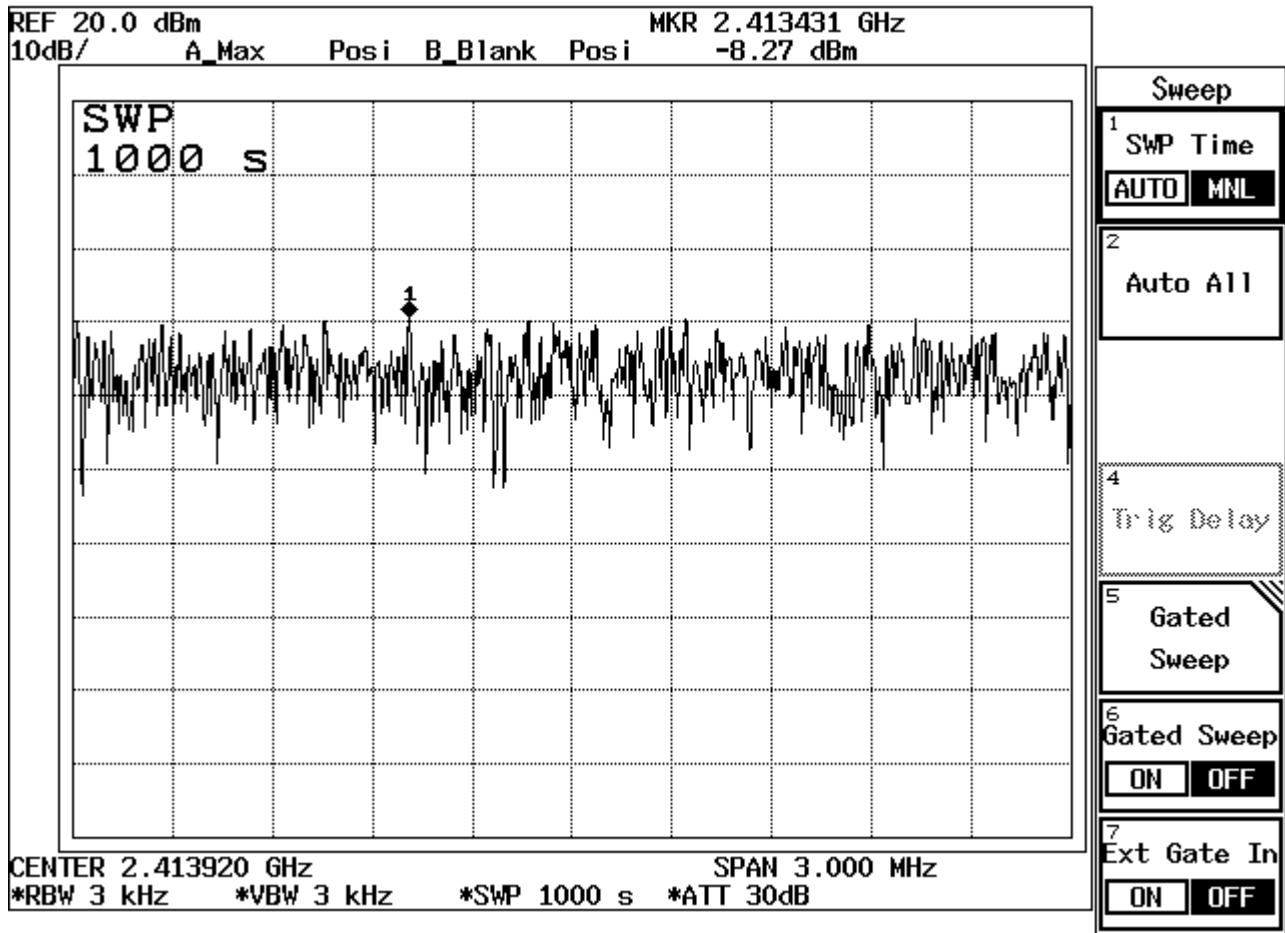
The measurement uncertainty is defined as  $\pm 1.27$  dB

### 7.5. Test Result of Power Density

Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 11Mbps (Channel 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (11Mbps)	2412	-8.27	< 8dBm	Pass

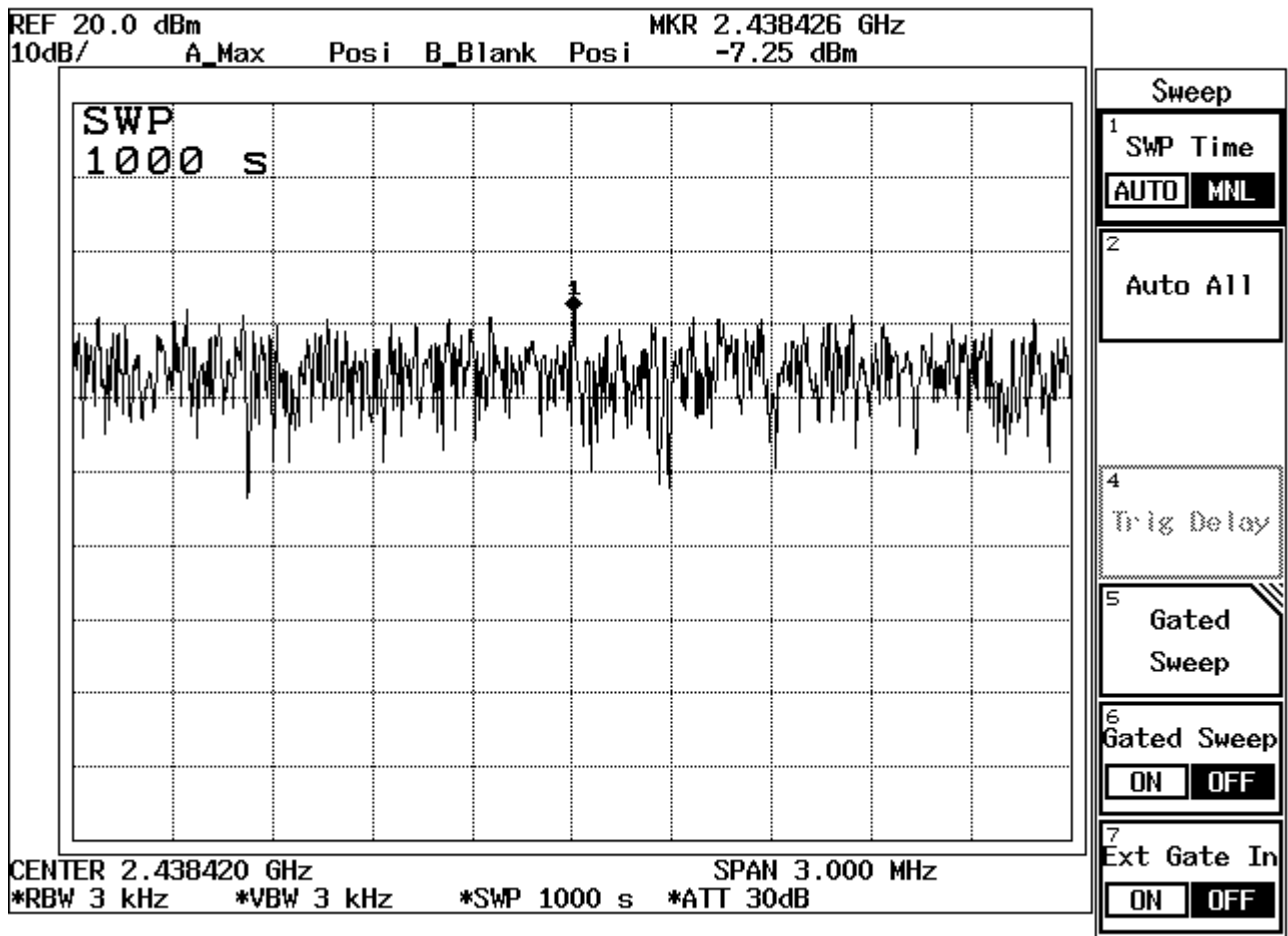
**Figure Channel 1:** 11Mbps



Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Transmitter 11Mbps (Channel 6)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (11Mbps)	2437.000	-7.25	< 8dBm	Pass

**Figure Channel 6:** 11Mbps

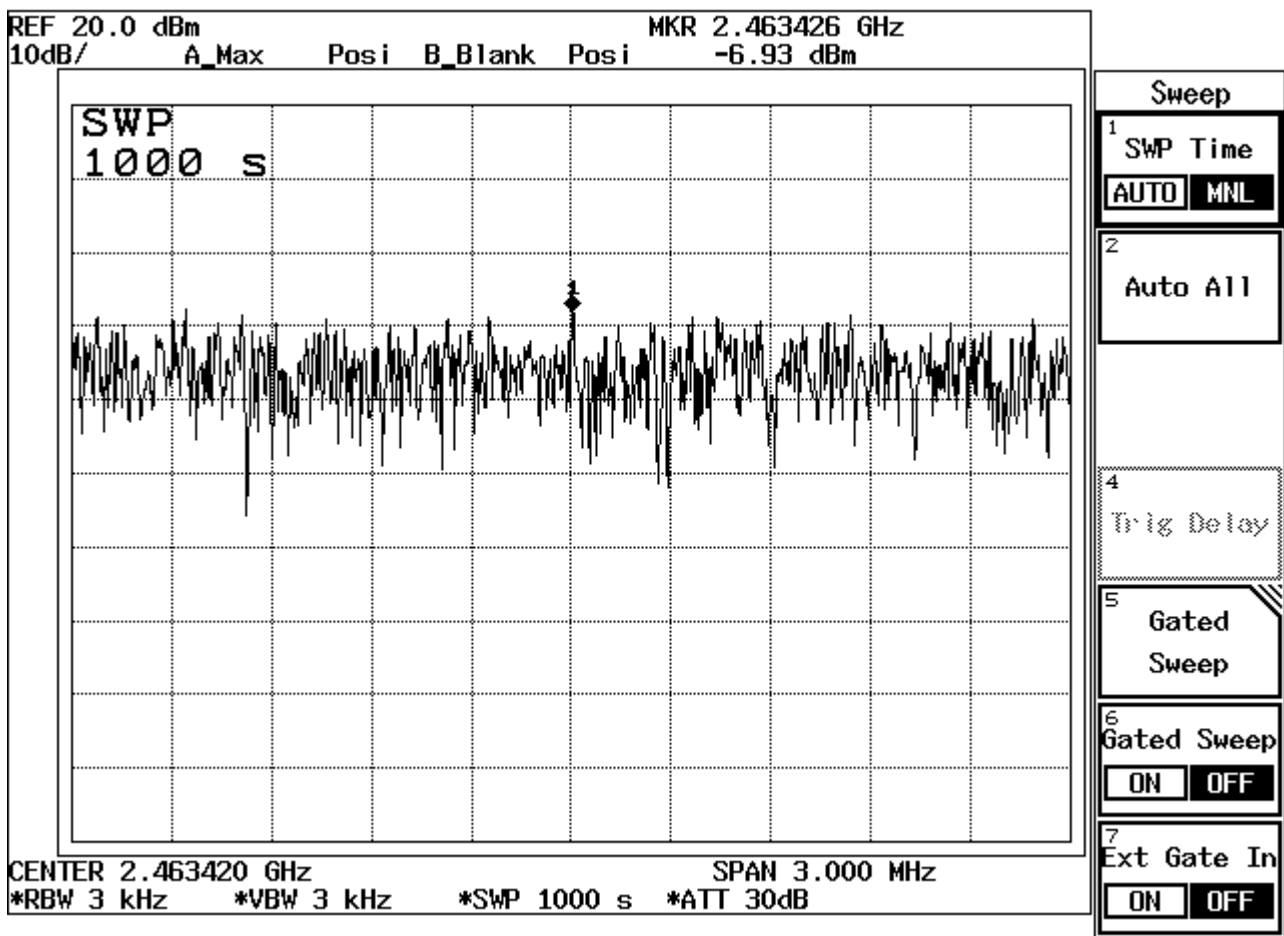


Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Density Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 11Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (11Mbps)	2462	-6.93	< 8dBm	Pass

Figure Channel 11:

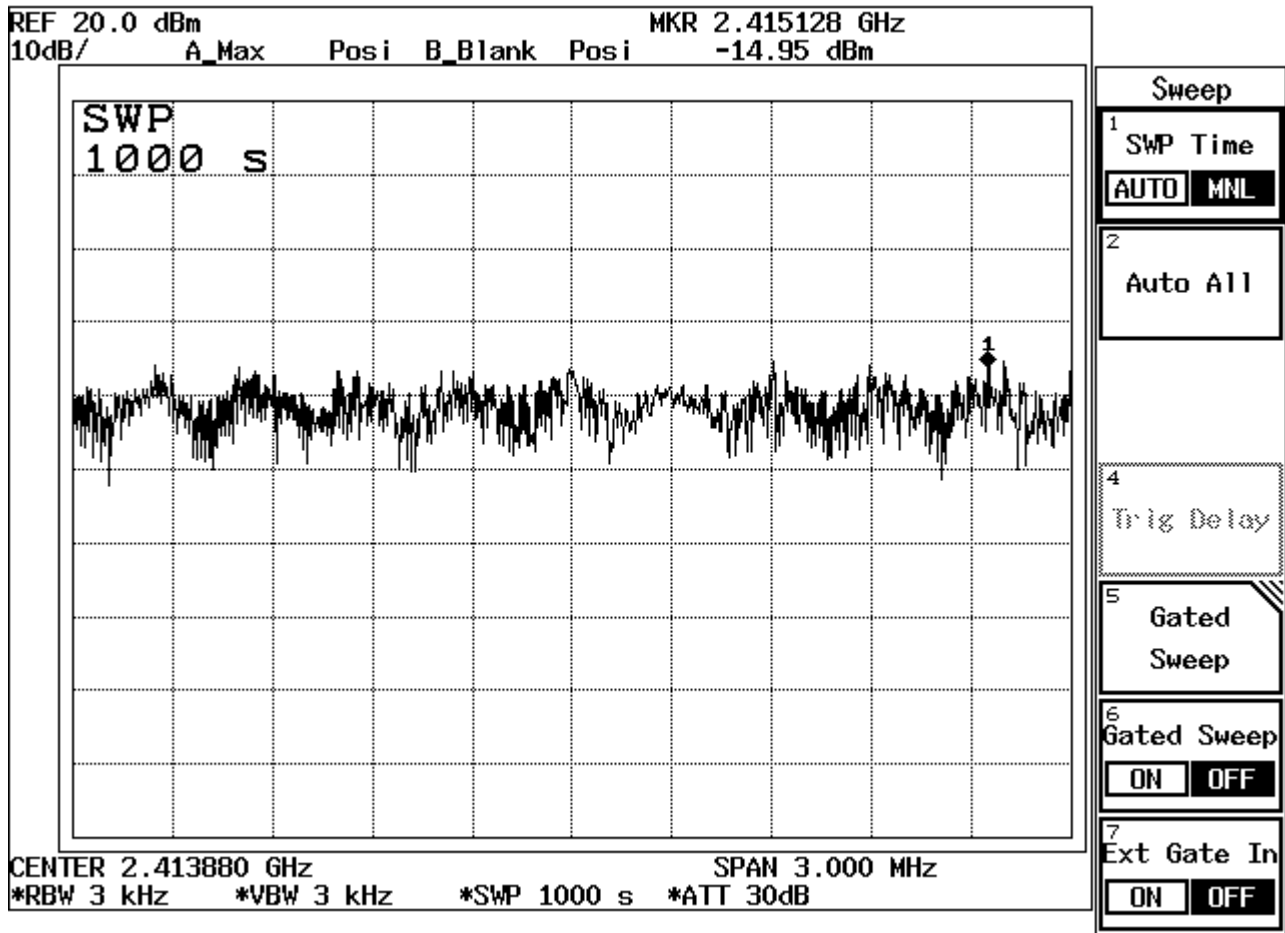
11Mbps



Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 54Mbps (Channel 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (54Mbps)	2412	-14.95	< 8dBm	Pass

**Figure Channel 1:** 54Mbps

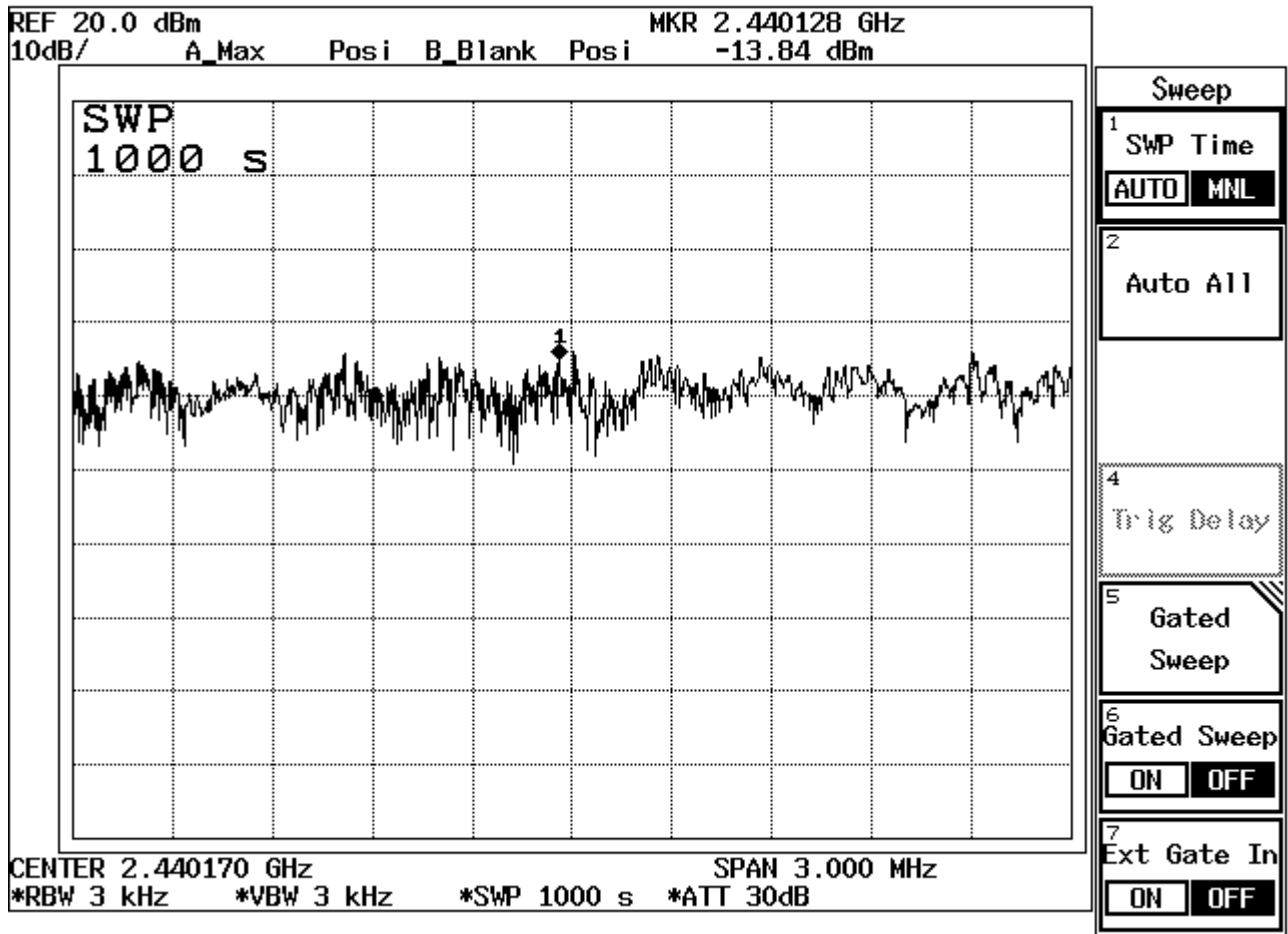




Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Transmitter 54Mbps (Channel 6)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (54Mbps)	2437	-13.84	< 8dBm	Pass

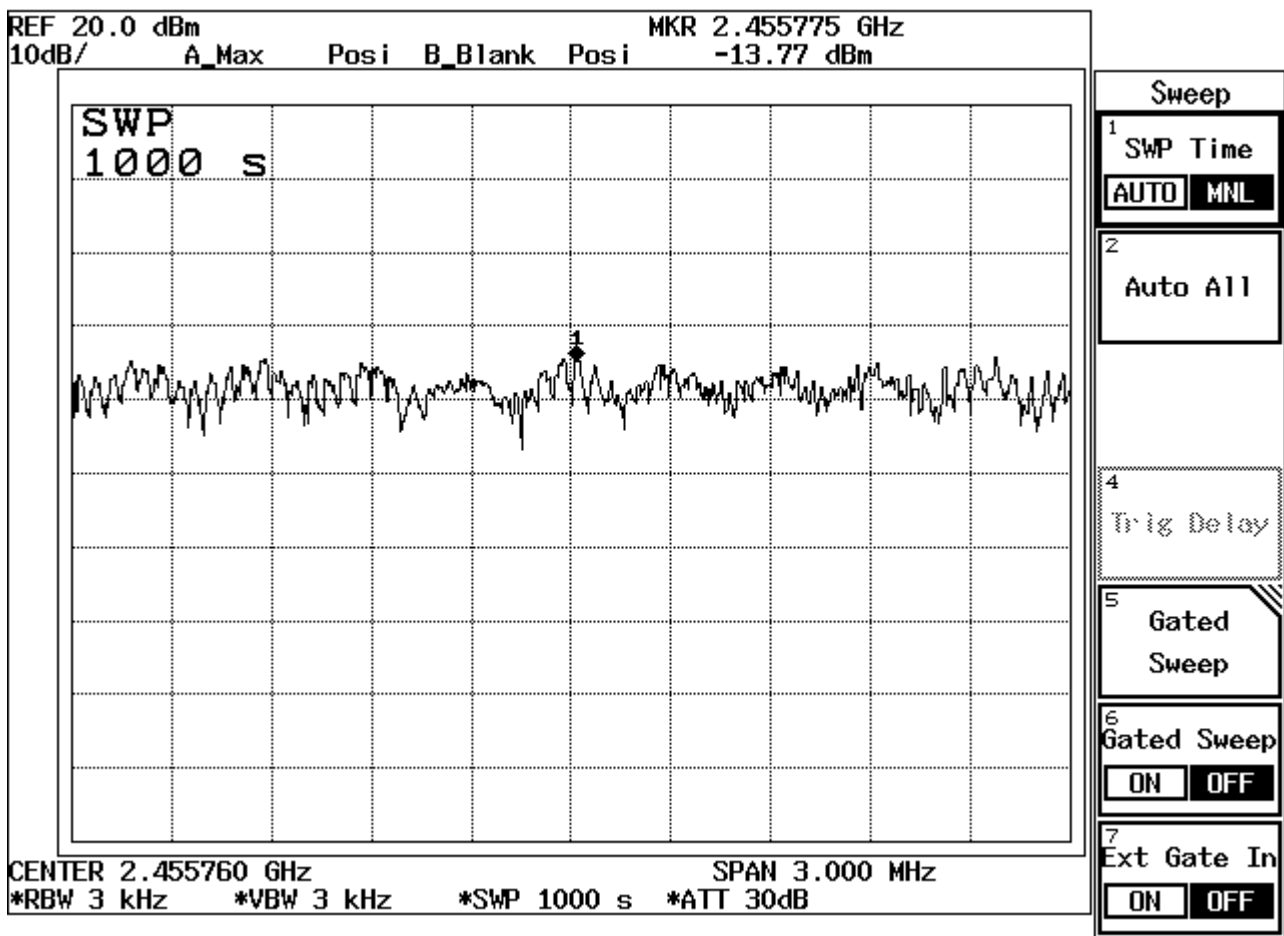
**Figure Channel 6:** 54Mbps



Product : Wireless 11g + Bluetooth Combo MiniPCI Card  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Transmitter 54Mbps (Channel 11)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (54Mbps)	2462	-13.77	< 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)



## Attachment 2: EUT Detailed Photographs



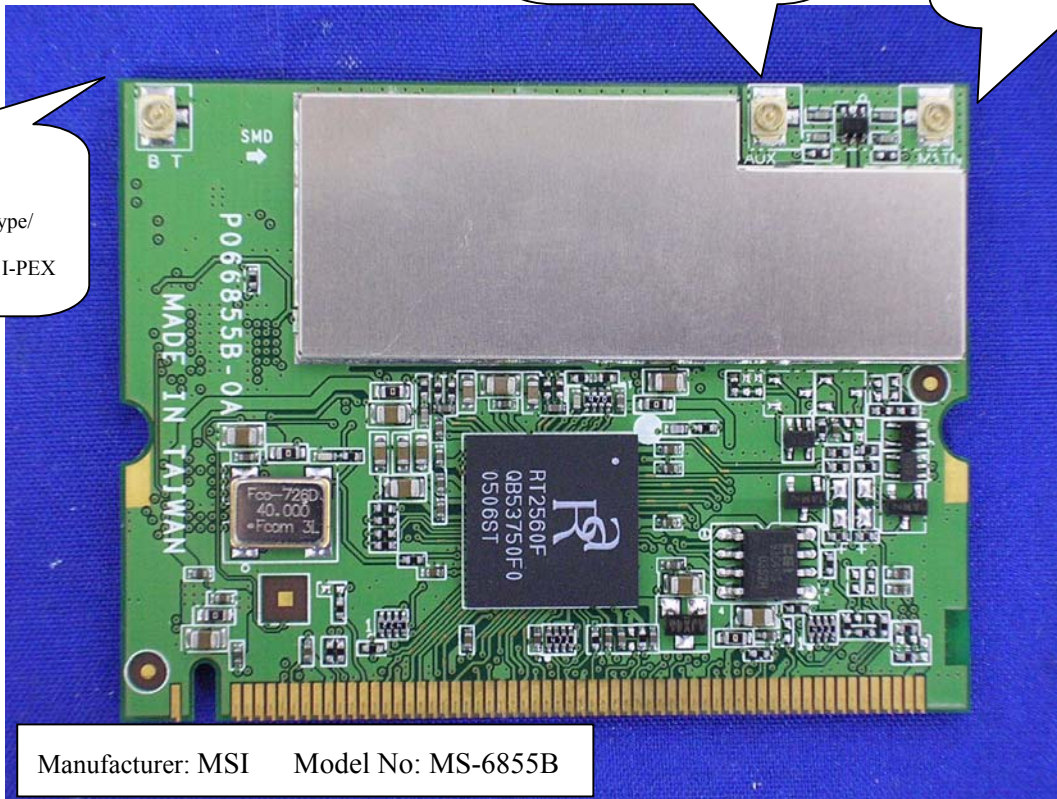
**Attachment 2 : EUT Detailed Photographs**

**(1) EUT Photo**

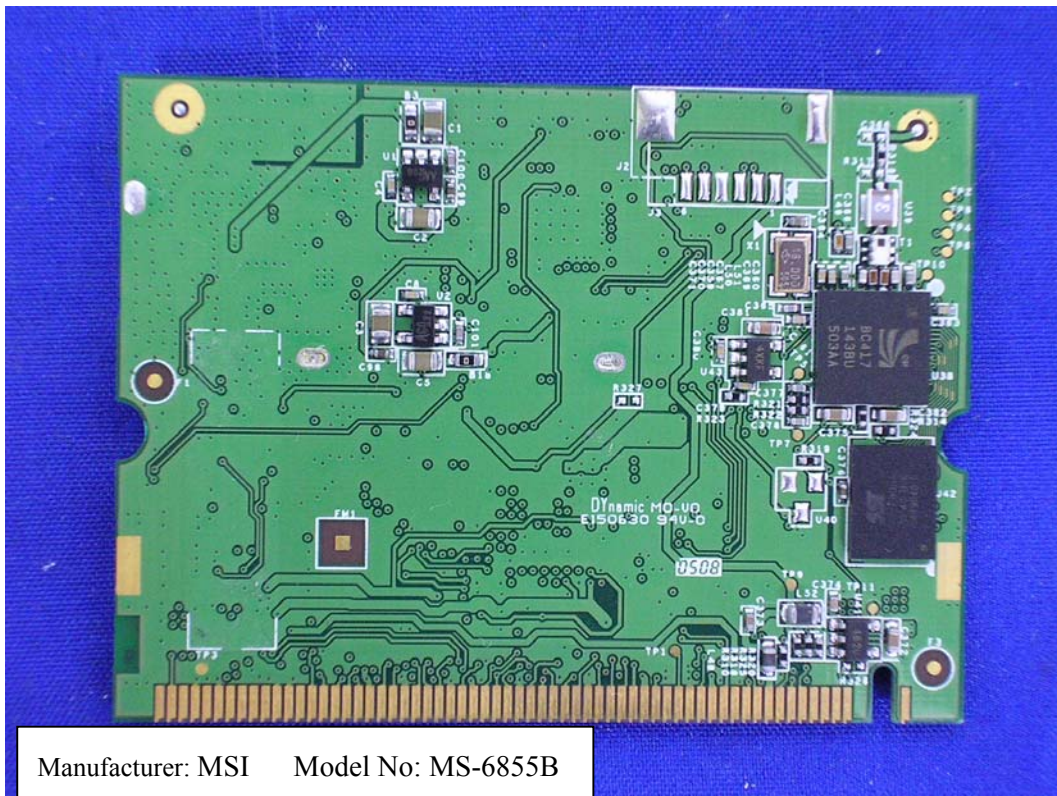
Bluetooth  
Antenna Connector Type/  
vendor: 20278-111R-13/ I-PEX

WLAN AUX Antenna  
Connector Type/ vendor:  
20278-111R-13/ I-PEX

WLAN MAIN Antenna  
Connector Type/ vendor:  
20278-111R-13/ I-PEX



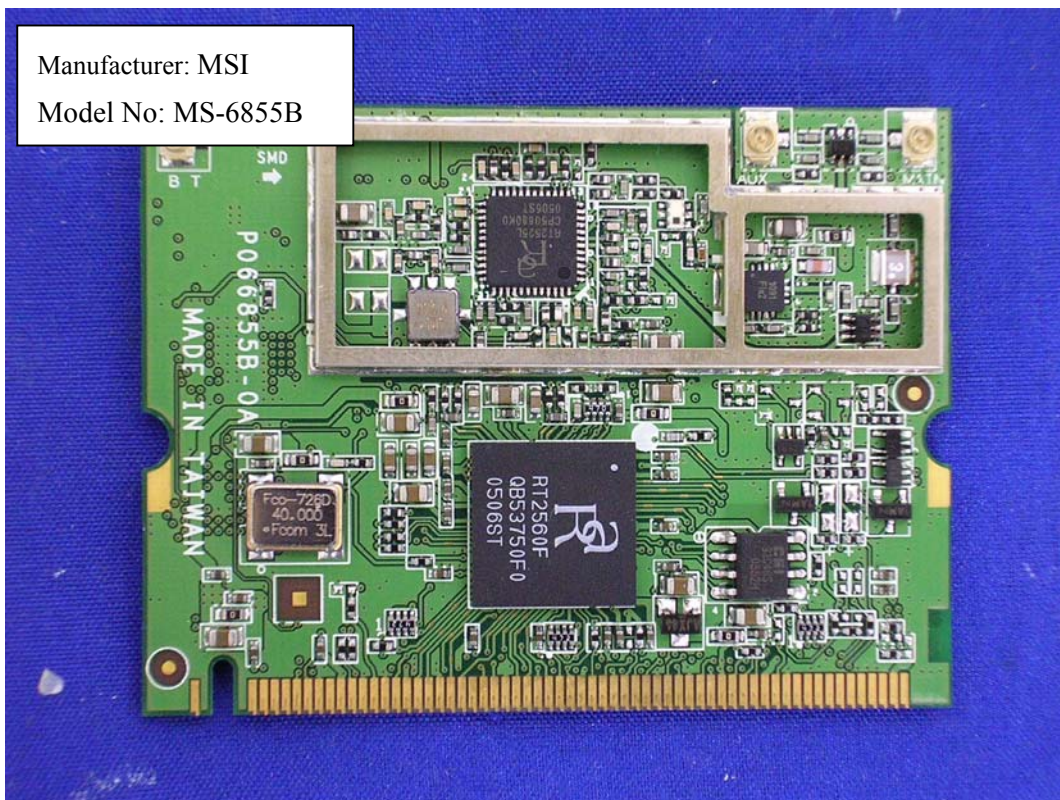
**(2) EUT Photo**



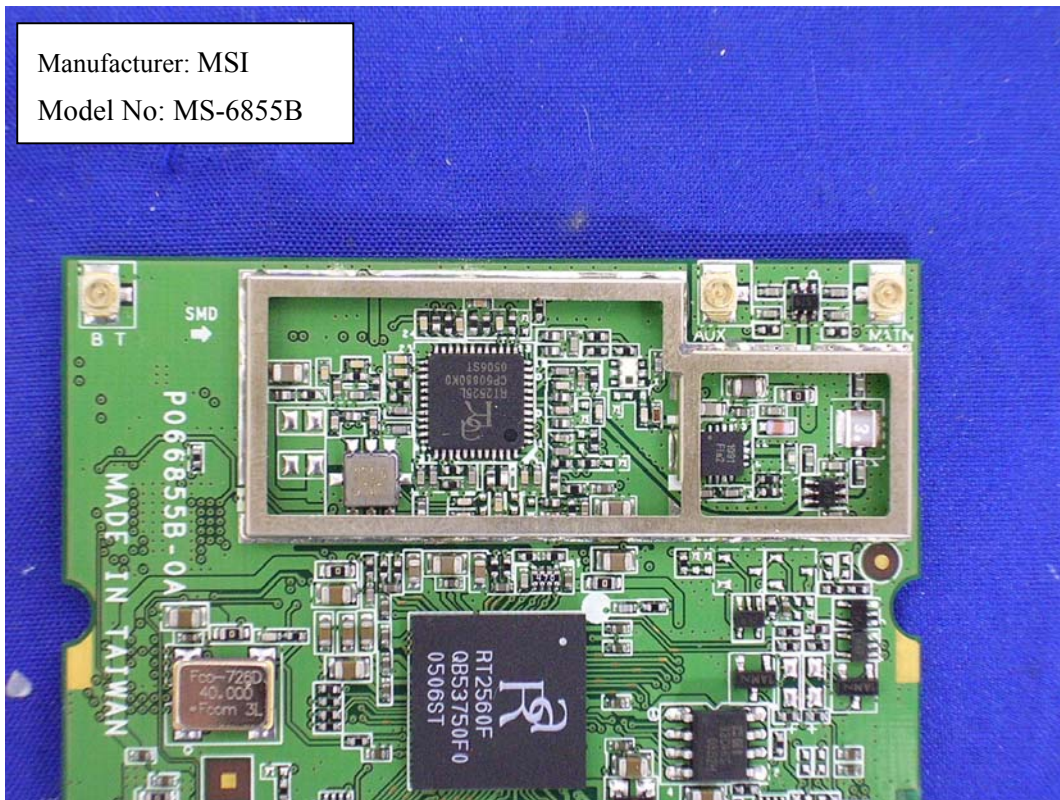
(3) EUT Photo



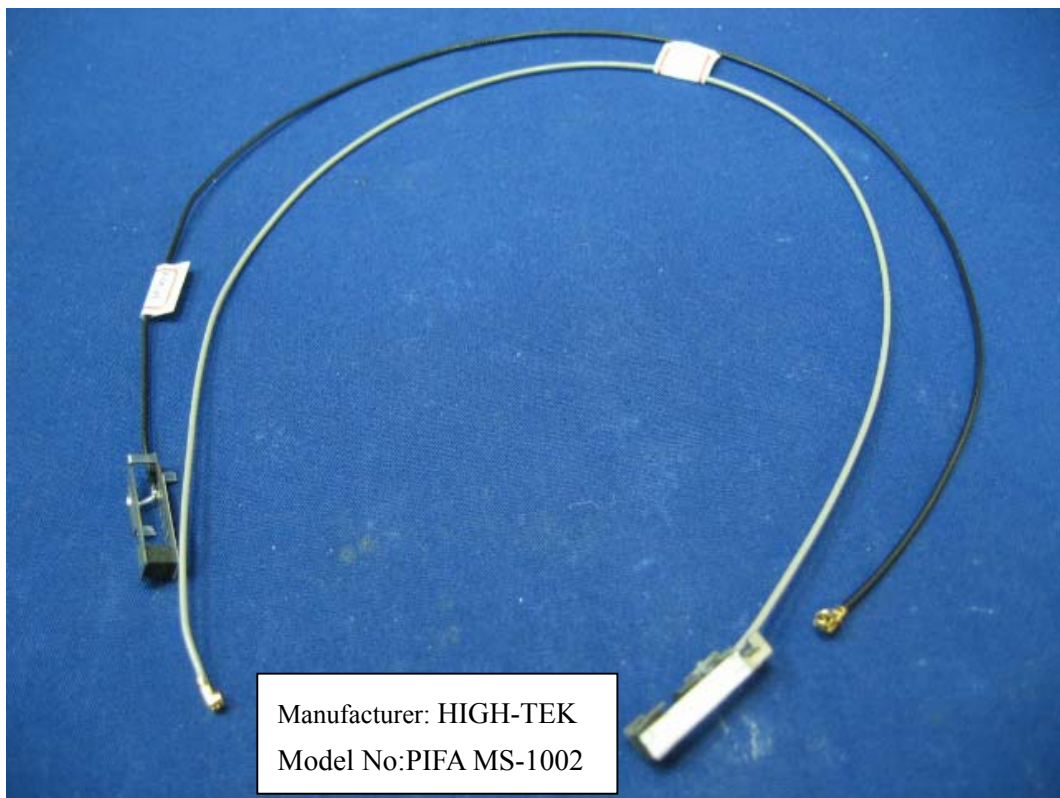
(4) EUT Photo



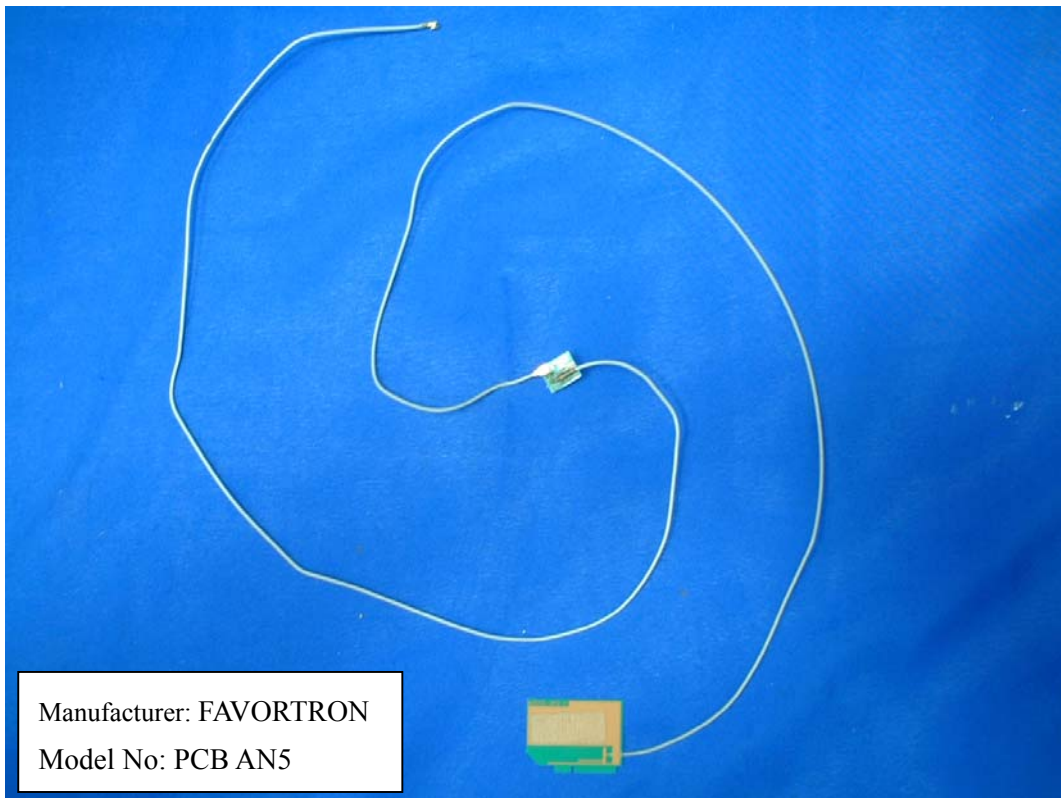
(5) EUT Photo



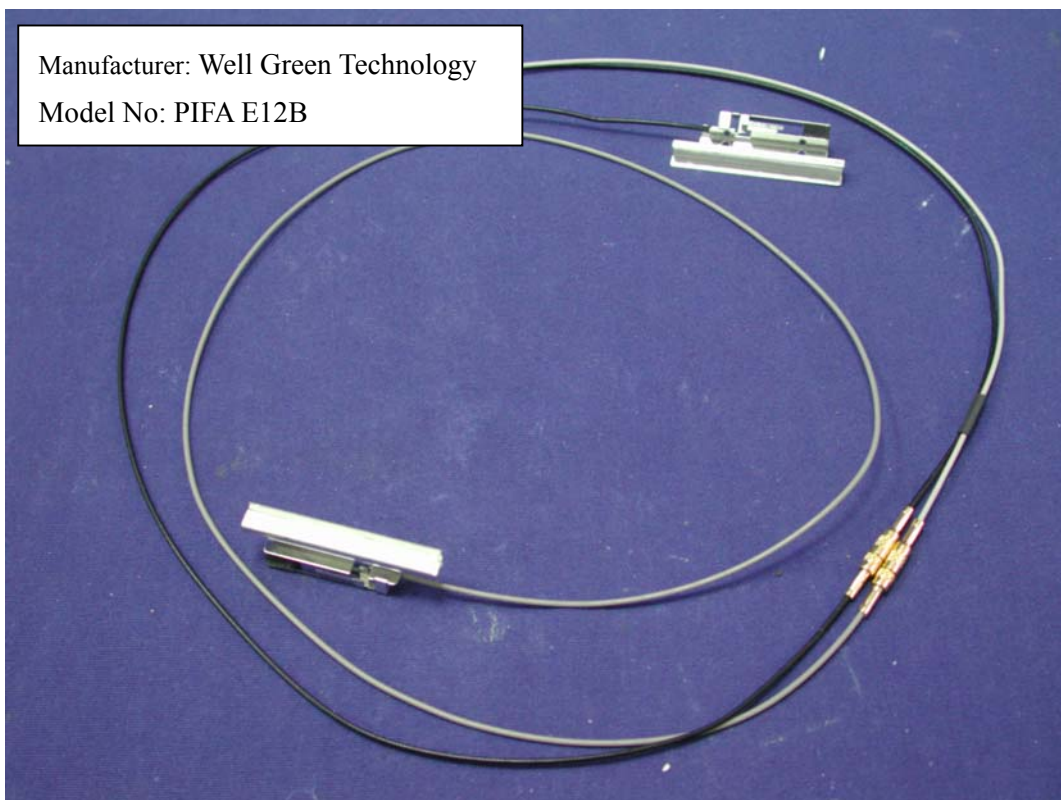
(6) EUT Photo



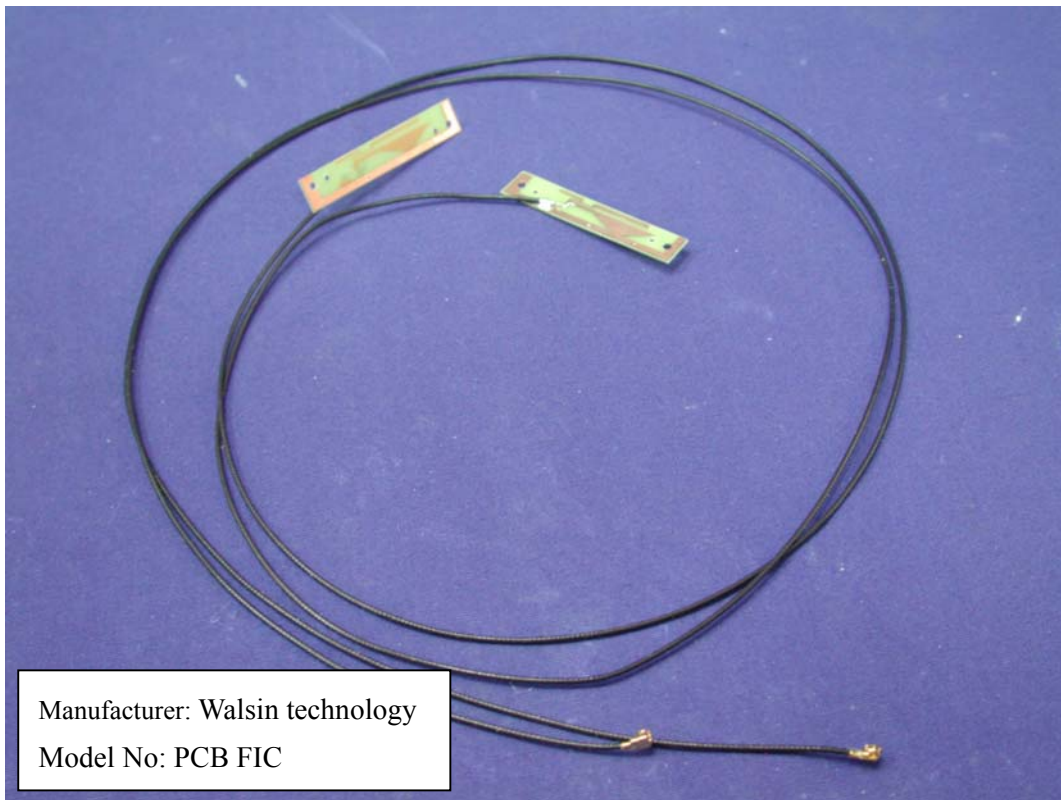
(7) EUT Photo



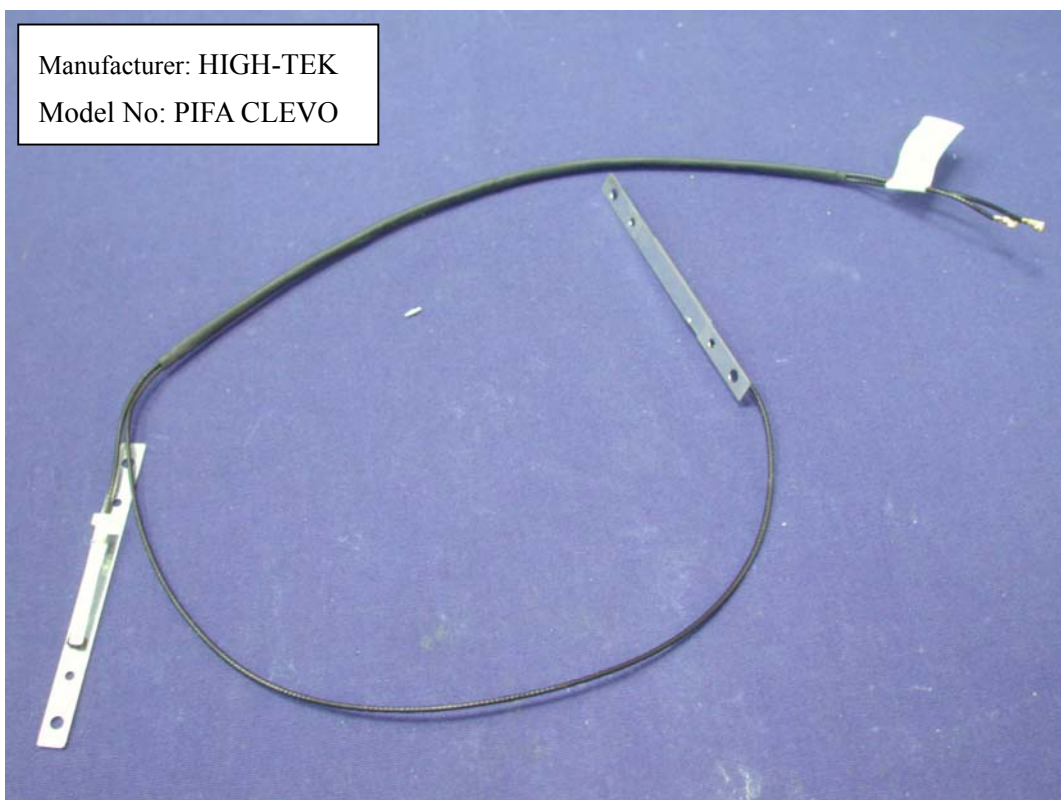
(8) EUT Photo



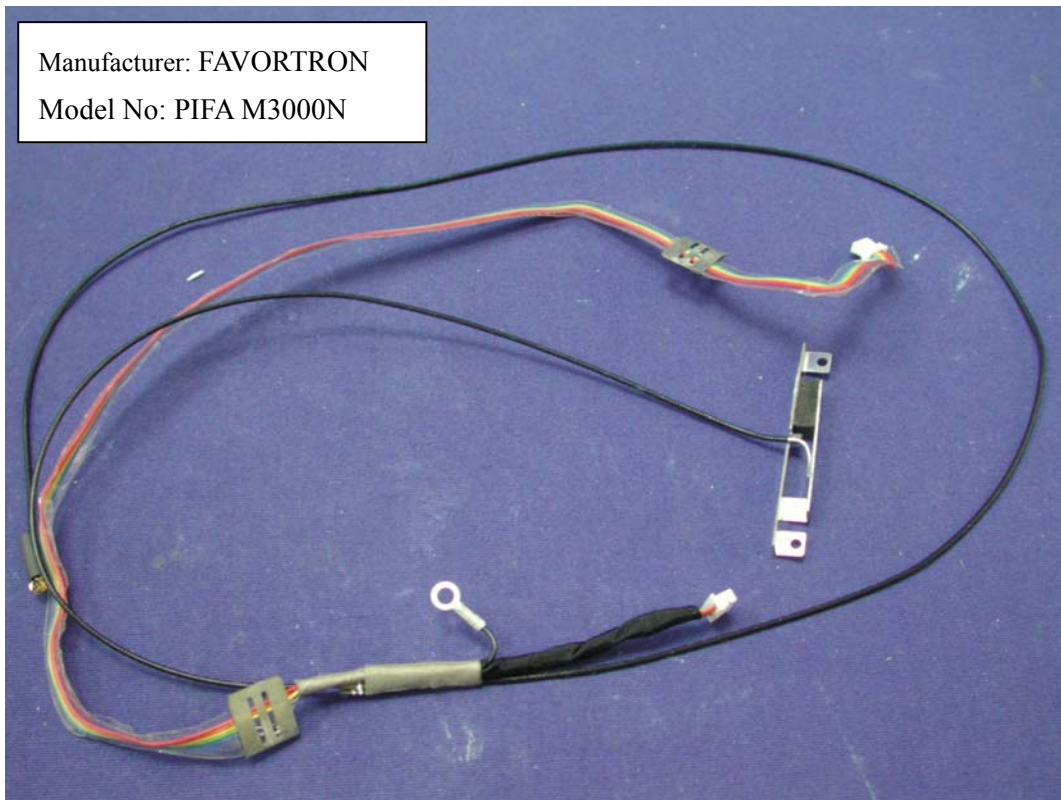
(9) EUT Photo



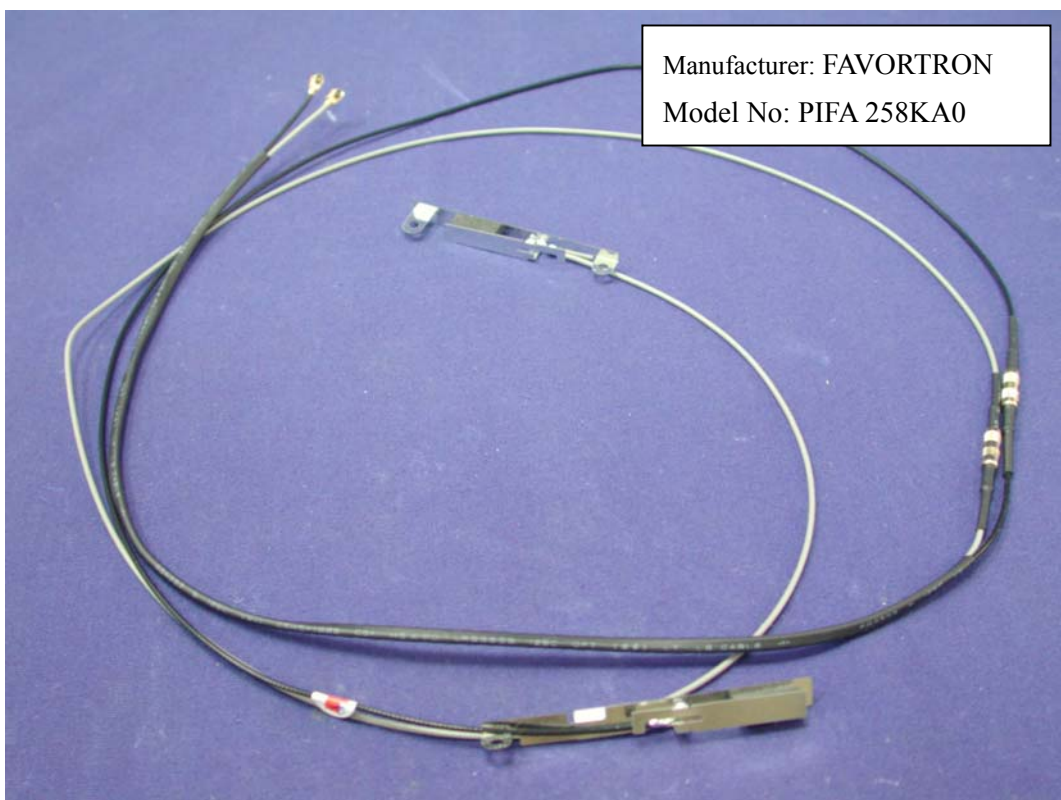
(10) EUT Photo



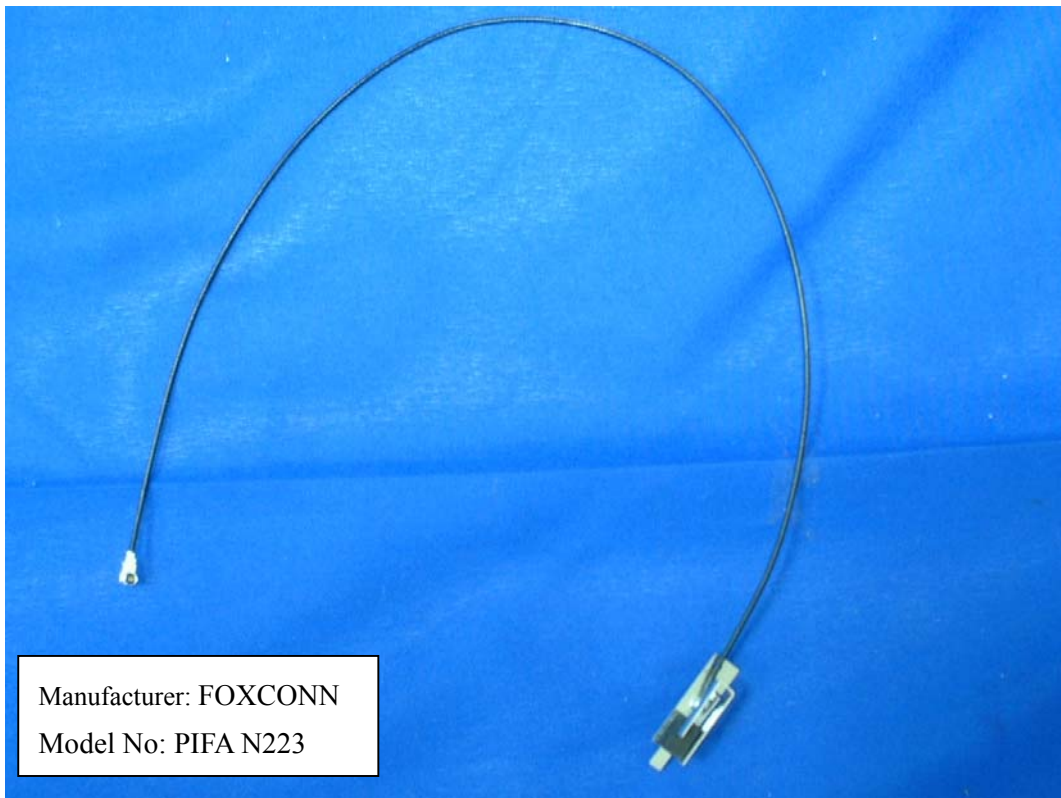
(11) EUT Photo



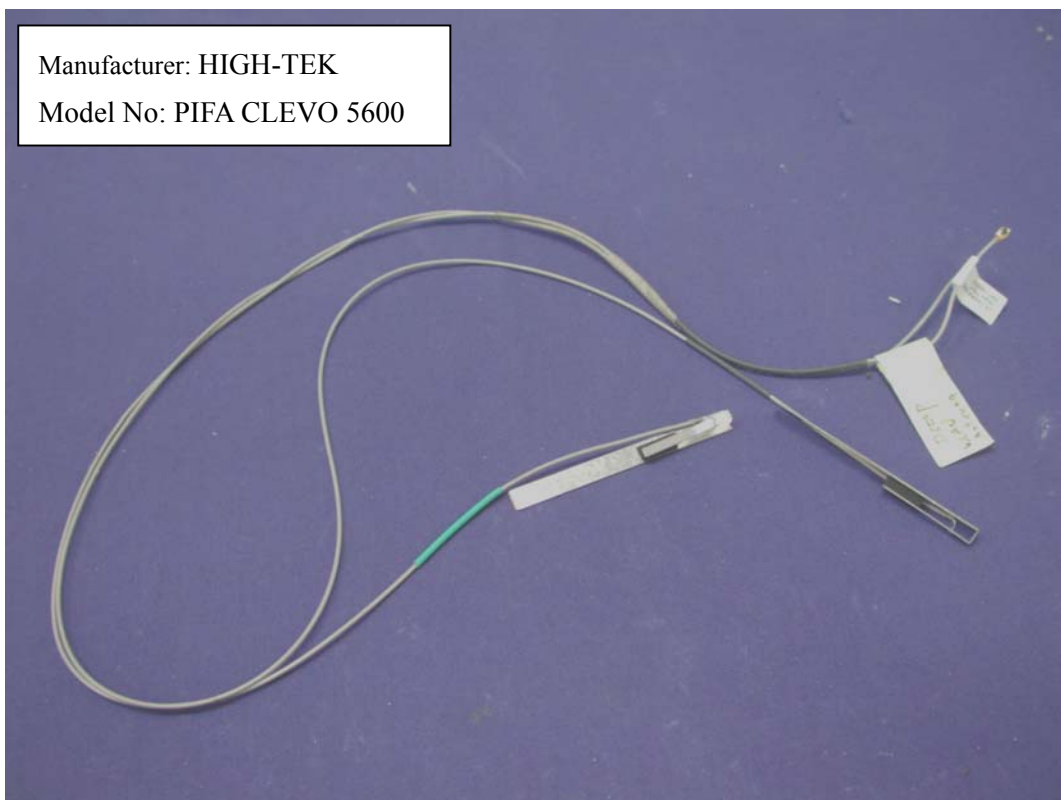
(12) EUT Photo



(13) EUT Photo



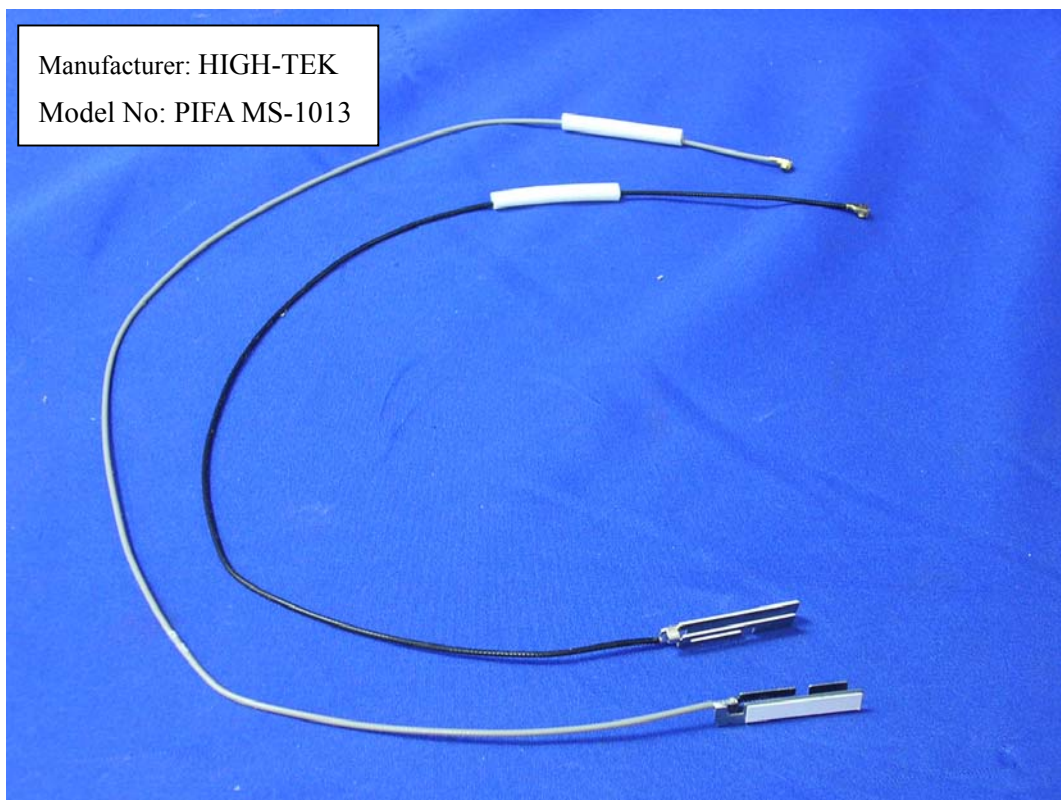
(14) EUT Photo



(15) EUT Photo

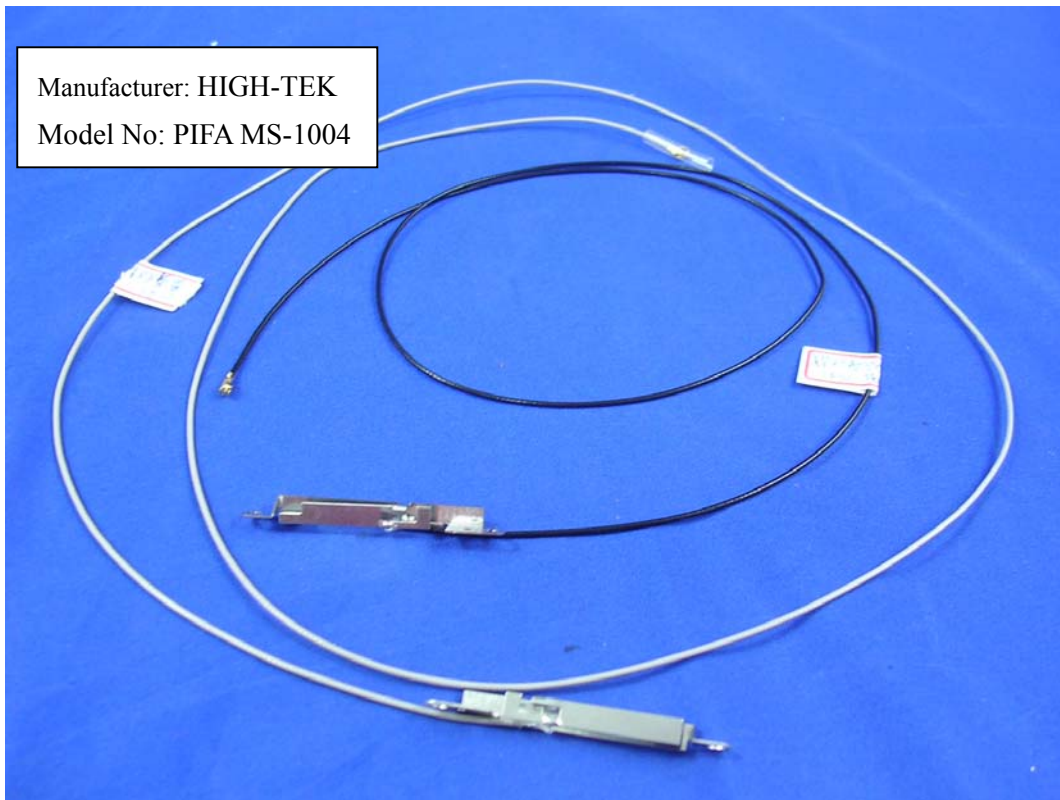


(16) EUT Photo





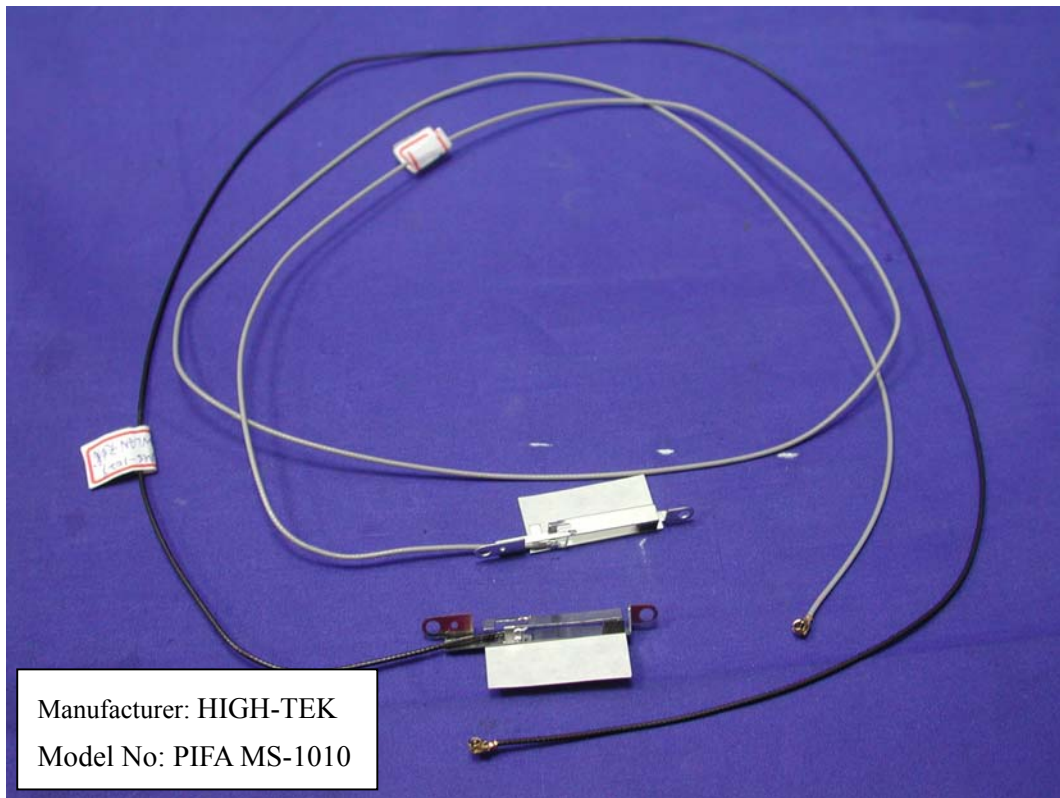
(17) EUT Photo



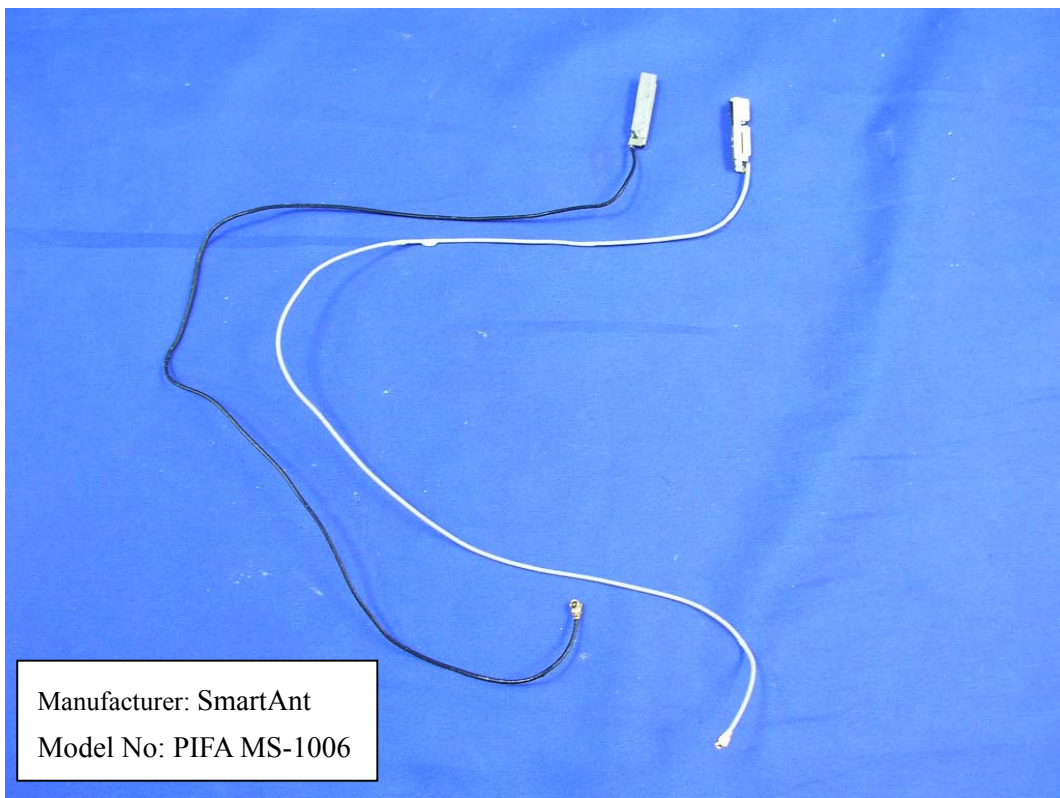
(18) EUT Photo



(19) EUT Photo



(20) EUT Photo



(21) EUT Photo

