# *FCC TEST REPORT*

**FCC ID** : S4PBC03RUT-01

**Applicant** : **Shenzhen Micah Electronics Corp**
1/F.,Bldg.M6,Middle District, High and New Technique Industrial Garden, Shenzhen, China

**Equipment Under Test (EUT) :**

Product description : USB Dongle

Model No. : BC03RUT-01

**Standards** : FCC 15 Paragraph 15.205, Paragraph 15.207, Paragraph 15.209, Paragraph 15.31, Paragraph 15.33, Paragraph 15.35, Paragraph 15.247

**Date of Test** : April 21, 2005

**Test Engineer** : Jimmy Lee

**Reviewed By** :

PERPARED BY:
**Shenzhen Huatongwei International Inspection Co., Ltd**
Keji S,12th,Road, Hi-tech Industrial Park, Shenzhen, Guangdong, China

FCC Registration Number: 662850

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# 3 Test Summary

| Test | Test Requirement | Test Method | Class / Severity | Result |
|---|---|---|---|---|
| Radiated Emission (30MHz to 25GHz) | FCC PART 15: 2003 | ANSI C63.4: 1992 | Class B | PASS |
| Conducted Emission (150KHz to 30MHz) | FCC PART 15: 2003 | ANSI C63.4: 1992 | Class B | PASS |

# 4 General Information

## 4.1 Client Information

Applicant: **Shenzhen Micah Electronics Corp**
Address of Applicant: 1/F., Bldg.M6, Middle District, High and New Technique Industrial Garden, Shenzhen, China

## 4.2 General Description of E.U.T.

Product description: USB Dongle
Model No.: BC03ATHE-01

## 4.3 Details of E.U.T.

Power Supply: USB Signal input

## 4.4 Description of Support Units

The EUT has been tested as an independent unit.

## 4.5 Standards Applicable for Testing

The customer requested FCC tests for a USB Dongle. The standards used were FCC 15 Paragraph 15.205, Paragraph 15.207,Paragraph 15.209, Paragraph 15.31,Paragraph 15.33, Paragraph 15.35, Paragraph 15.247.

## 4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC – Registration No.: 662850**

  Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 662850, November 17, 2003.

## 4.7 Test Location

All Emissions testswere performed at:-Shenzhen Huatongwei International Inspection Co., Ltd. at Keji S,12th,Road, Hi-tech Industrial Park, Shenzhen, Guangdong, China.

# 5 Equipment Used during Test

| | **Conducted Emission Test** | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **Test Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Cal. Date** | **Due date** |
| 1 | Shielding Room | ETS | 8 x 4 x 4 $m^3$ | N0.2 | N/A | N/A |
| 2 | LISN | Schaffner Chase | MNZ050D11 | 1421 | 06-11-2004 | 05-11-2005 |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | 100039 | 18-11-2004 | 17-11-2005 |
| | **Radiated Emission Test** | | | | | |
| **Item** | **Test Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Cal. Date** | **Due date** |
| **1** | 3m Semi- Anechoic Chamber | ETS | N/A | N/A | 05-11-2004 | 04-11-2005 |
| **2** | EMI Test Receiver | ROHDE & SCHWARZ | ESI 26 | 100009 | 05-11.2004 | 04-11-2005 |
| **3** | EMI Test Receiver | ROHDE & SCHWARZ | ESCS30 | 100038 | 05-11.2004 | 04-11-2005 |
| **4** | Spectrum Analyzer | Agilent | E7402A | 100047 | 05-11.2004 | 04-11-2005 |
| **5** | EMI Test Software | ROHDE & SCHWARZ | ES-K1 | N/A | N/A | N/A |
| **6** | Bilog Type Antenna | ETS | 2075 | 2346 | 02-12-2004 | 01-12-2005 |
| **7** | Horn Antenna | ROHDE & SCHWARZ | HF906 | 1000029 | 05-11.2004 | 04-11-2005 |
| **8** | Ultra-Broadband Antenna | ROHDE & SCHWARZ | HL562 | 100015 | 02-12-2004 | 01-12-2005 |
| | **Common Used Equipment** | | | | | |
| **Item** | **Test Equipment** | **Manufacturer** | **Model No.** | **Series No.** | **Cal. Date** | **Due date** |
| **1** | Temperature, Humidity & Barometer | OREGON SCIENTIFIC | BA-888 | EMC0001 to EMC0004 | 25-07-2004 | 25-07-2005 |
| **2** | DMM | FLUKE | 73 | 70681569 or 70671122 | 23-07-2004 | 23-07-2005 |
| **3** | Notebook PC | IBM | X31 | 99-MADCD04/02 | N/A | N/A |

# 6 Conducted Emission Test

| | |
|---|---|
| Test Requirement: | FCC Part15 Paragraph 15.207 |
| Test Method: | Based on FCC Part15 Paragraph 15.207 |
| Test Date: | April 21, 2005 |
| Frequency Range: | 150kHz to 30MHz |
| Class: | Class B |
| Detector: | Peak for pre-scan (9kHz Resolution Bandwidth)<br>Quasi-Peak & Average if maximised peak within 6dB of Average Limit |

## 6.1 Test Equipment

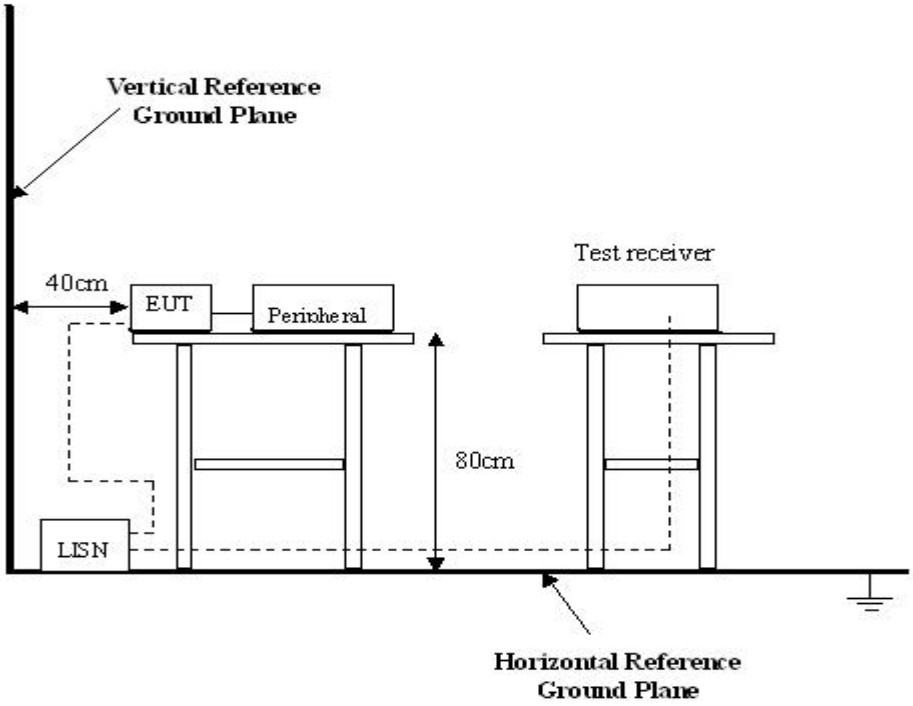
Please refer to Section 5 this report.

## 6.2 Test Procedure

1. The EUT was tested according to ANSI C63.4. The frequency spectrum from 150kHz to 30MHz was investigated.
2. The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

## 6.3 Conducted Test Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4, The specification used in this report was the FCC Part15 Paragraph 15.207 limits.



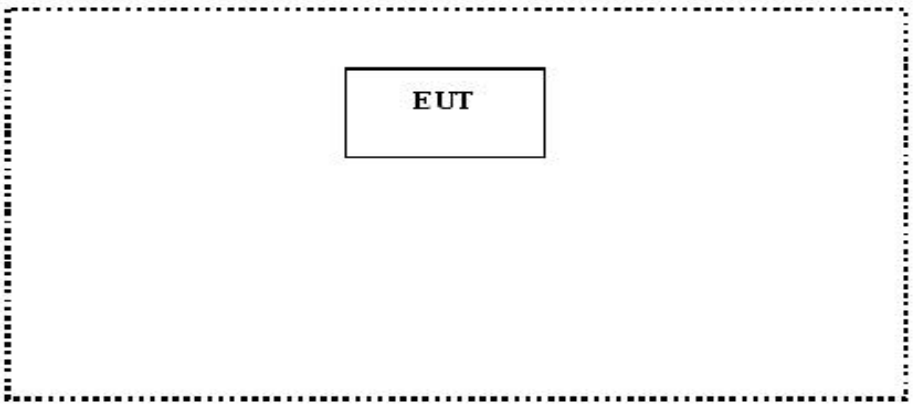

## 6.4 EUT Operating Condition

Operating condition is according to ANSI C63.4.

A. Setup the EUT and simulators as shown on follow.

B. Enable RF signal and confirm EUT active.

C. Modulate output capacity of EUT up to specification.



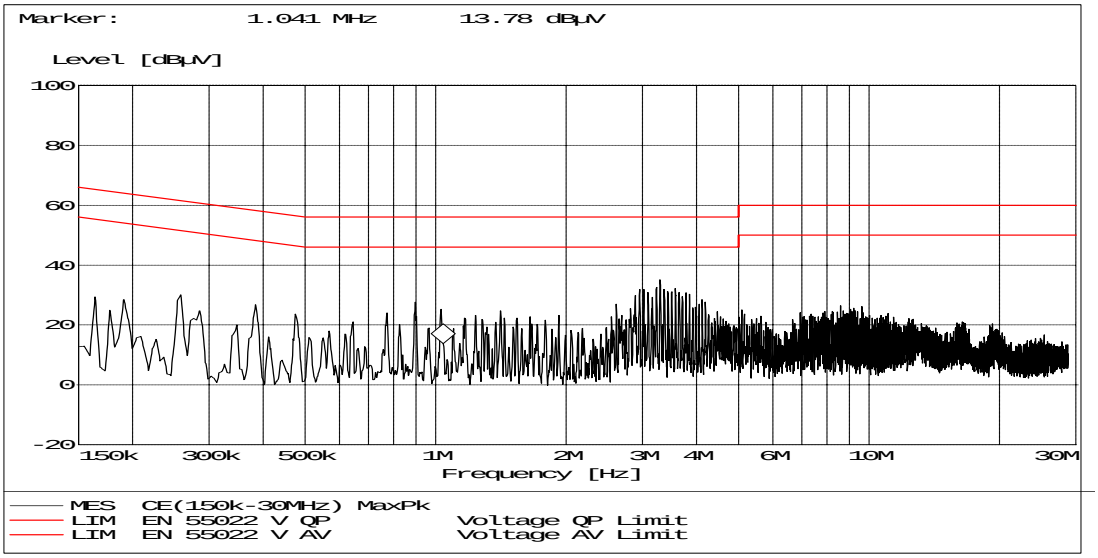
## 6.5 Conducted Emission Limits

66-56 dBμV/m between 0.15MHz & 0.5MHz
56 dBμV/m between 0.5MHz & 5MHz
60 dBμV/m between 5MHz & 30MHz

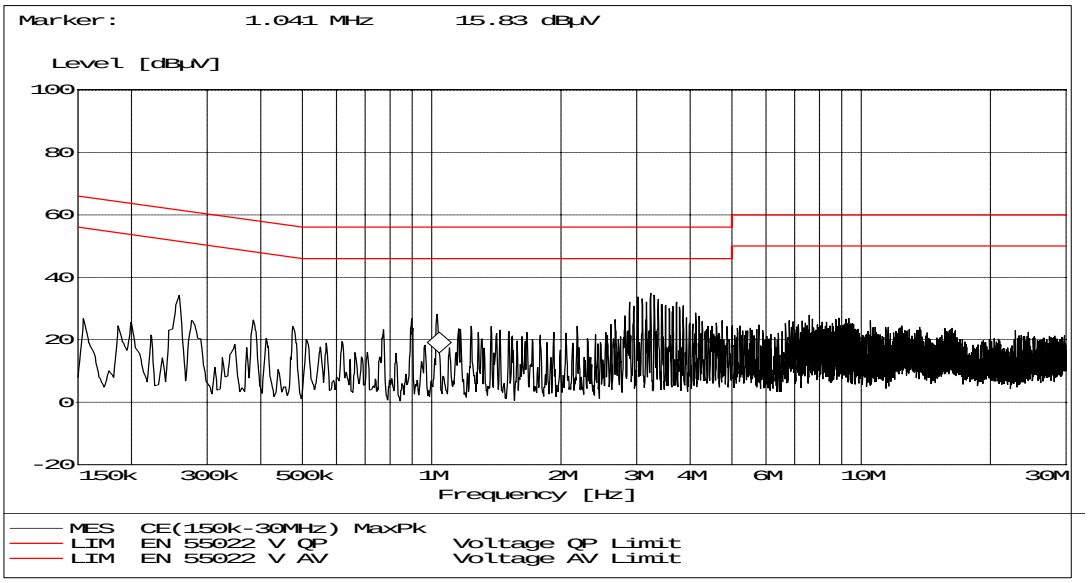
**Note**: In the above limits, the tighter limit applies at the band edges.

## 6.6 Conducted Emission Test Result

**Live Line**:




**Neutral Line**:



## 6.7 Conductied Emissions Test Data

| Freq. MHz | Line | QP Reading dBuV | Limit dBuV | Margin dB | AV Reading dBuV | Limit dBuV | Margin dB |
|---|---|---|---|---|---|---|---|
| 0.255 | Live | 33.6 | 61.6 | 28.0 | 30.7 | 51.6 | 20.9 |
| 1.021 | Live | 26.5 | 56.0 | 29.5 | 23.1 | 46.0 | 22.9 |
| 3.306 | Live | 37.6 | 56.0 | 18.4 | 34.5 | 46.0 | 11.5 |
| 12.021 | Live | 21.1 | 60.0 | 38.9 | 17.0 | 50.0 | 33.0 |
| 0.255 | Neutral | 30.4 | 61.6 | 31.2 | 27.1 | 51.6 | 24.5 |
| 1.501 | Neutral | 27.8 | 56.0 | 28.2 | 26.8 | 46.0 | 19.2 |
| 3.310 | Neutral | 36.9 | 56.0 | 19.1 | 31.8 | 46.0 | 14.2 |
| 6.013 | Neutral | 24.3 | 60.0 | 35.7 | 19.7 | 50.0 | 30.3 |

# 7 Radiation Emission Test

| | |
|---|---|
| Test Requirement: | FCC Part15 Paragraph 15.209 and Paragraph 15.247 |
| Test Method: | Based on ANSI 63.4 |
| Test Date: | April 21, 2005 |
| Frequency Range: | 30MHz to 25GHz |
| Measurement Distance: | 3m |
| Detector: | Peak for pre-scan (120kHz resolution bandwidth) |
| | Quasi-Peak if maximised peak within 6dB of limit |

## 7.1 Test Equipment

Please refer to Section 5 this report.

## 7.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

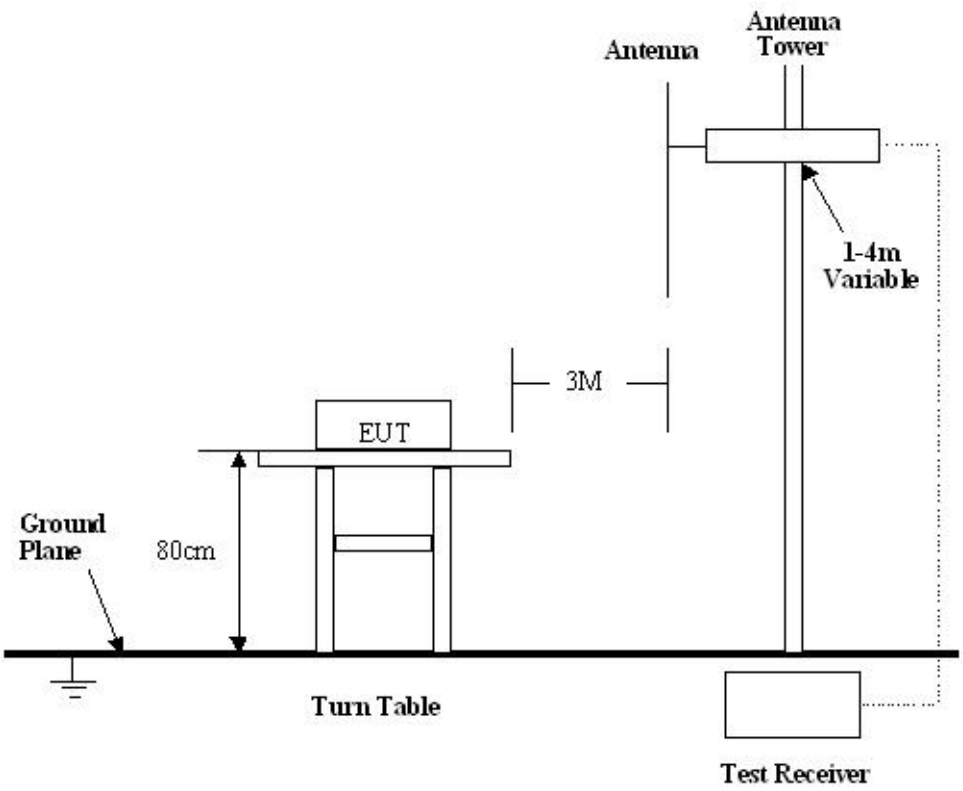
Based on ANSI C63.4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at SZHTW is +4.0 dB.

## 7.3 Test Procedure

1. For the radiated emissions test, since the EUT does not have a power source, there was no connection to AC outlets.
2. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.
3. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dBμV of specification limits), and are distinguished with a "Qp" in the data table.
4. The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.

## 7.4 Radiated Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4, The specification used in this report was the FCC Part15 Paragraph 15.209 and Paragraph 15.247 limits.




## 7.5 Spectrum Analyzer Setup

According to FCC Part15 Paragraph 15.209 and Paragraph 15.247 Rules, the system was tested to 25000 MHz.

Start Frequency.....30 MHz
Stop Frequency .....25000 MHz
Sweep Speed Auto
IF Bandwidth .....100 kHz
Video Bandwidth.....1 MHz
Quasi-Peak Adapter Bandwidth .....120 kHz
Quasi-Peak Adapter Mode.....Normal
Resolution Bandwidth .....1MHz

## 7.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dBμV means the emission is 7dBμV below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – Class B Limit

## 7.7 Summary of Test Results

According to the data in section 7.10, the EUT complied with the FCC Part15 Paragraph 15.209 and Paragraph 15.247 standards.

## 7.8 EUT Operating Condition

Same as section 6.4 of this report.

Let the EUT work in test mode(Tx Low/Tx Middle/Tx High) and test it.

## 7.9 Radiated Emissions Limit

### A. FCC Part 15 subpart C Paragraph 15.247 Limit

| Fundamental Frequency | Field Strength of Fundamental | | Field Strength of Harmonics | |
|---|---|---|---|---|
| | mV/m | dBuV/m | uV/m | dBuV/m |
| 902-928MHz | 50 | 94 | 500 | 54 |
| 2400-2483.5 MHz | 50 | 94 | 500 | 54 |
| 5725-5875 MHz | 50 | 94 | 500 | 54 |
| 24.0-24.25GHz | 250 | 108 | 2500 | 68 |

**Note**: (1) RF Voltage(dBuV)=20 log RF Voltage(uV)

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(3)The emission limit in this paragraph is based on measurement instrumentaion employing an average detector.Measurement using instrumentation with a peak detector function,corresponding to 20dB above the maximum permitted average limit.

(4) Above 1GHz,do a Peak and average measurements for all emissions,Limit for peak is 74dBuvV/m,According to Part15.35(b) and average is 54BuvV/m.

### B. Frequencies in restricted band are complied to limit on Paragraph 15.209

| Frequency(MHZ) | Distance(m) | Field strength(dBuV/m) |
|---|---|---|
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

**Note**: (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.

## 7.10 Radiated Emissions Test Result

Formula of conversion factors:the field strength at 3m was egtablished by adding The meter reading of the spectrum analyer (which is set to read in units of dBuV) To the antenna correction factor supplied by the antenna manufacturer. The antenna Correction factors are stared in terms of dB.The gain of the pressletor was accounted For in the spectrum analyser meter reading.

Example:

| Freq(MHz) | Meter Reading +ACF=FS |
|---|---|
| 33 | 20dBuV+10.36dB=30.36dBuV/m @3m |

**A. Fundamental Radiated Emission Data**

| | |
|---|---|
| Test Item: | Fundamental Radiated Emission Data |
| Test Voltage: | Power From USB Signal iuput |
| Test Mode: | On(Tx Low/Tx Middle/Tx High) |
| Temperature: | 24 °C |
| Humidity: | 52%RH |
| Test Result: | PASS |

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | FCC 15 Subpart C Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Turntable Angle ( ° ) |
|---|---|---|---|---|---|---|
| Low frequency | | | | | | |
| 2402. 393145 | Vertical | 85.10 | 94.0 | 8.90 | 1.5 | 90 |
| 2402. 393145 | Horizontal | 86.30 | 94.0 | 7.70 | 1.5 | 90 |
| Middle frequency | | | | | | |
| 2441.895433 | Vertical | 87.66 | 94.0 | 6.34 | 1.5 | 90 |
| 2441. 895433 | Horizontal | 86.59 | 94.0 | 7.41 | 1.5 | 90 |
| High frequency | | | | | | |
| 2480.682011 | Vertical | 86.70 | 94.0 | 7.30 | 1.5 | 90 |
| 2480.682011 | Horizontal | 85.10 | 94.0 | 8.90 | 1.5 | 90 |

**Note**: (1) Above 1GHz,do a peak and average measurements for all emissions,Limit for peak is 74dBuvV/m,According to part15.35(b) and average is 54dBuvV/m.

(2) The field strength of fundamental radiation emissions limit for average is 94dBuV/m.

(3) General Radiated Emission No significant emissions above the equipment noise floor were detected.

(4) Emission Level = Reading Level + Probe Factor + Cable Loss.

**B. General Radiated Emission Data**

Test Item: General Radiated Emission Data
Test Voltage: Power From USB Signal iuput
Test Mode: On TX
Temperature: 24 °C
Humidity: 52%RH
Test Result: PASS

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | FCC 15 Subpart C Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Turntable Angle ( ° ) |
|---|---|---|---|---|---|---|
| 35.312224 | Vertical | 36.36 | 40.0 | 3.64 | 1.4 | 45 |
| 345.741483 | Vertical | 38.40 | 46.0 | 7.60 | 2.0 | 180 |
| 401.282551 | Vertical | 39.20 | 46.0 | 6.80 | 1.8 | 60 |
| 665.651203 | Vertical | 42.31 | 46.0 | 3.69 | 2.0 | 90 |
| 1869.938473 | Vertical | 40.22 | 54.0 | 13.78 | 2.0 | 180 |
| 3701.402212 | Vertical | 41.35 | 54.0 | 12.65 | 1.6 | 60 |
| 35.745883 | Horizontal | 32.20 | 40.0 | 7.80 | 1.5 | 45 |
| 401.182341 | Horizontal | 40.50 | 46.0 | 5.50 | 1.6 | 60 |
| 455.716669 | Horizontal | 39.30 | 46.0 | 6.70 | 2.0 | 180 |
| 1394.384329 | Horizontal | 43.80 | 54.0 | 10.20 | 1.8 | 60 |
| 1893.186355 | Horizontal | 42.10 | 54.0 | 11.90 | 2.0 | 90 |

# 8 Maximum Peak Output Power

Test Requirement: FCC Part15 Paragraph 15.247
Test Method: Based on ANSI 63.4
Test Date: April 21, 2005
Test mode: Compliance test in the worse case: Tx Low/Tx Middle/Tx High
Requirements: Regulation 15.247(b) The limit of Maximum Peak Output Power Measurement is 1W(30dBm)

**Test procedure:**

The technique used to find the output power of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP emission levels of the EUT.

The following test procedure as below:

1. The EUT was powered ON and placed on a table in the chamer.The antenna of the transmitter was extended to its maximum length.
2. The fundamental frequency of th transmitter was maximized on the test receiver display by raising and lowering the receive antenna and by rotating the turntable.After the fundamental emission was maximized,afield strength measurement was made.
3. Steps 1 and 2 were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
4. Calculate the transmitter's peak power using the following equation:
   Power= (E x d)squared/(30 x G)
   Where:E= the measured maximum field strength in V/m.
   Set the RBW>6dB bandwidth of the emission or use a peak power meter.
   .G= the numeric gain of the transmitting antenna over an isotropic radiator.
   .d= the distance in meters from which the field strength was measured.
   .P= the power in watts is the final Maximum Peak Output Power.

**Test Result:**

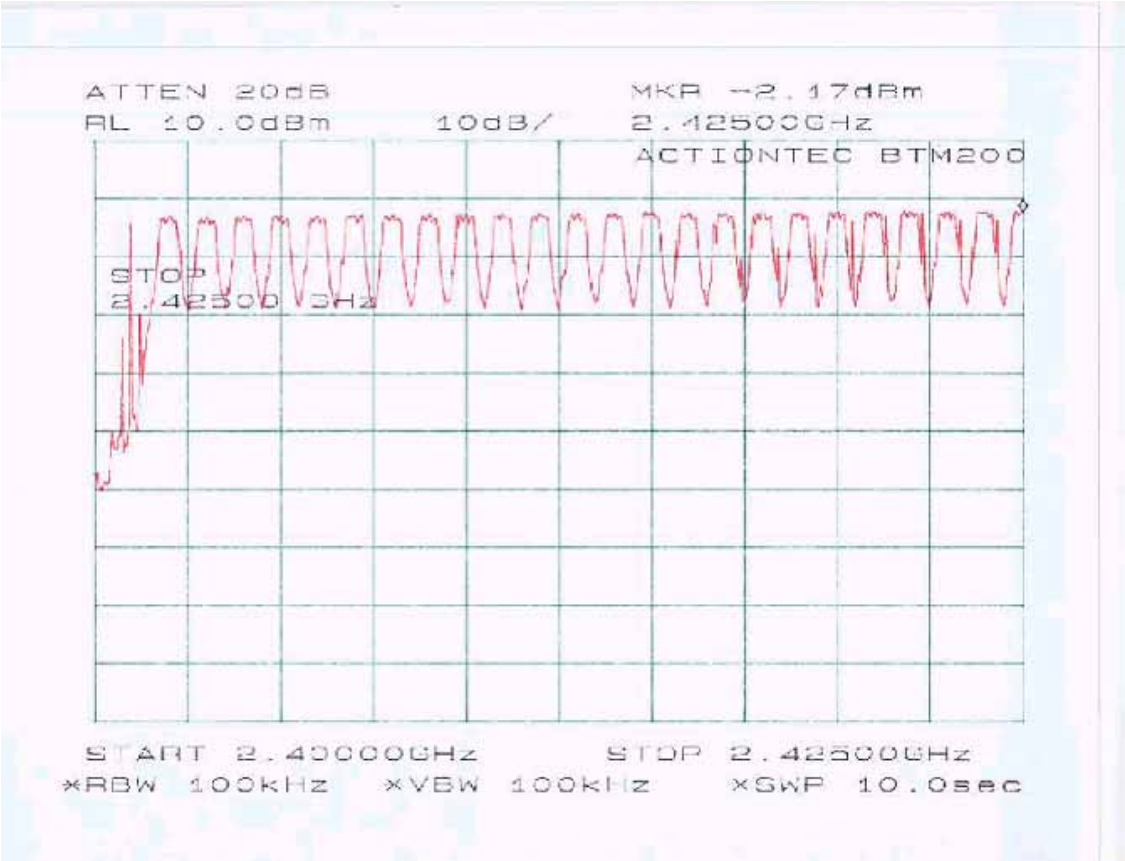
| Test Channel | Fundamental Frequency(GHz) | Reading (dBm) | Cable Loss dB | Output Power (dBm) | Limit (dBm) | PASS/FAIL |
|---|---|---|---|---|---|---|
| low | 2.402 | -9.12 | 0.2 | -8.92 | 30 | PASS |
| middle | 2.441 | -9.04 | 0.2 | -8.84 | 30 | PASS |
| high | 2.480 | -9.07 | 0.2 | -8.87 | 30 | PASS |

**Test Results**:The unit does meet the FCC requirements.

# 9 Hopping Channel Number

| | |
|---|---|
| Test Requirement: | FCC Part15 C |
| Test Method: | Based on FCC Part15 Paragraph 15.247 |
| Test Date: | April 21, 2005 |
| Test mode: | The EUT work in test mode(Tx) and test it |
| Requirements: | Regulation 15.247(a) For frequency hopping systems operating In the 2400-2483.5MHz band employing at least 50hopping channels. |
| Test result: | Total channels are 80 channels,channel 0 to 79. The unit does meet the FCC requirements. |

Please fefer the graph as below:



# 10 Carrier Frequencies Separated

Test Requirement: FCC Part15 C

Test Method: Based on FCC Part15 Paragraph 15.247

Test Date: April 21, 2005

Test mode: The EUT work in test mode(Tx) and test it

Requirements: The bandwidth of the fundamental frequency was measur by spectrum analyser with 100KHz RBW and 100KHz VBW.The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

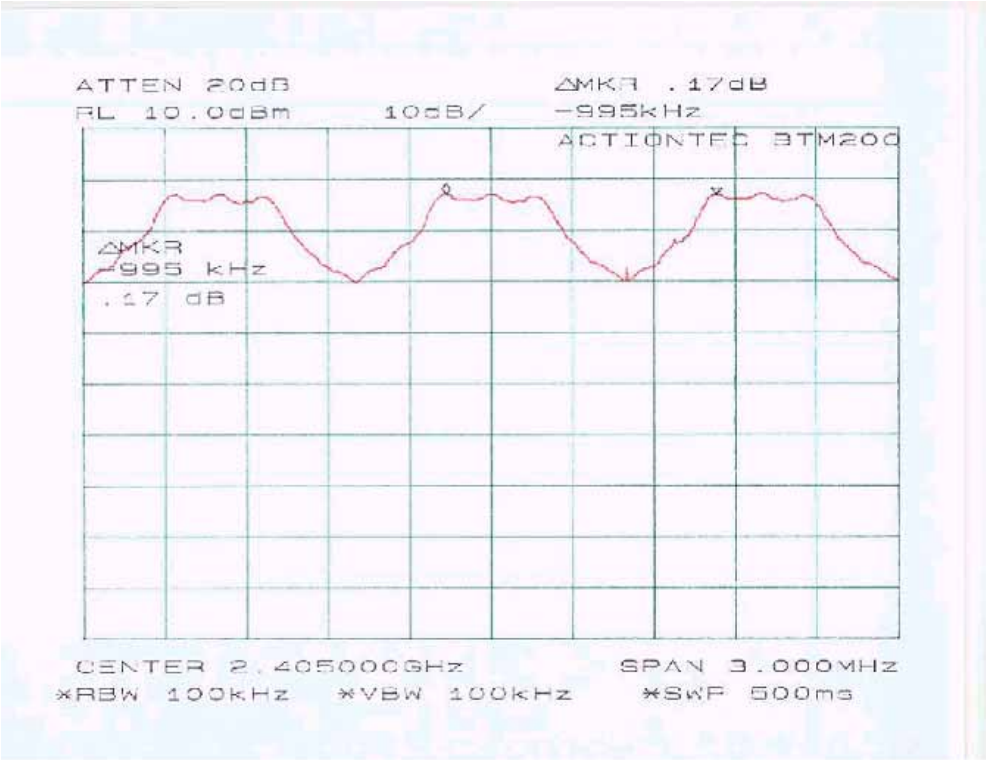
Test result: PASS

Channel Carrier Frequency Separated

| Test Channel | Carrier Frequencies Separated | PASS/FAIL |
|---|---|---|
| Lower Channels (channel 0 and channel 1) | 0.995MHz | Pass |

The unit does meet the FCC requirements.

## 10.1 Lower Channels:Carrier Frequencies Separated



# 11 Dwell Time

Test Requirement: FCC Part15 C
Test Method: Based on FCC Part15 Paragraph 15.247
Test Date: April 21, 2005
Test mode: The EUT work in test mode(Tx) and test it

Requirements: 15.247 a(1)(iii)Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 non-overlapping channels.The average time of occupancy on any channel shall not greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

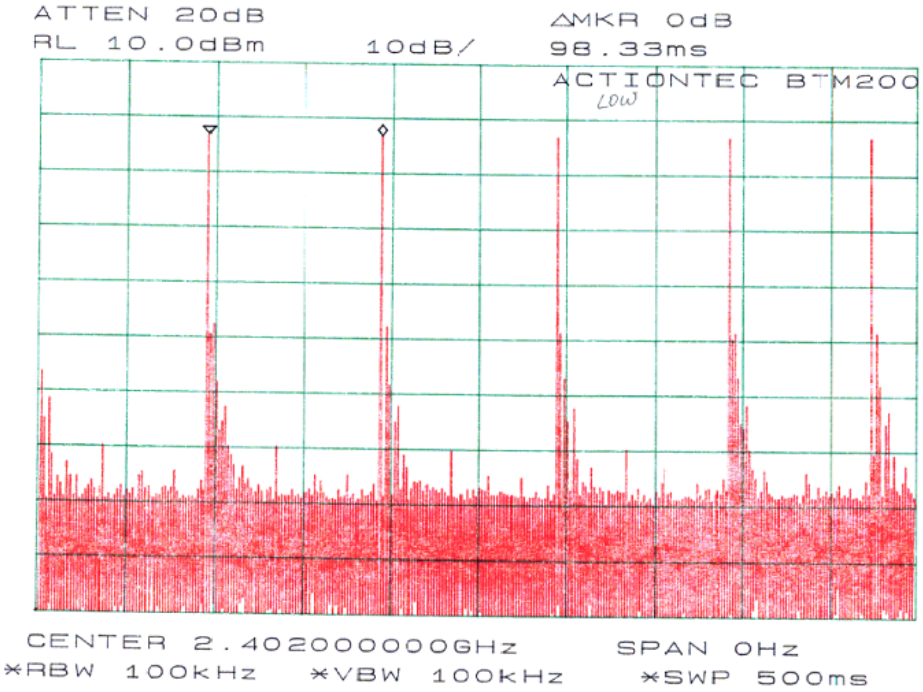
## 11.1 Test procedure

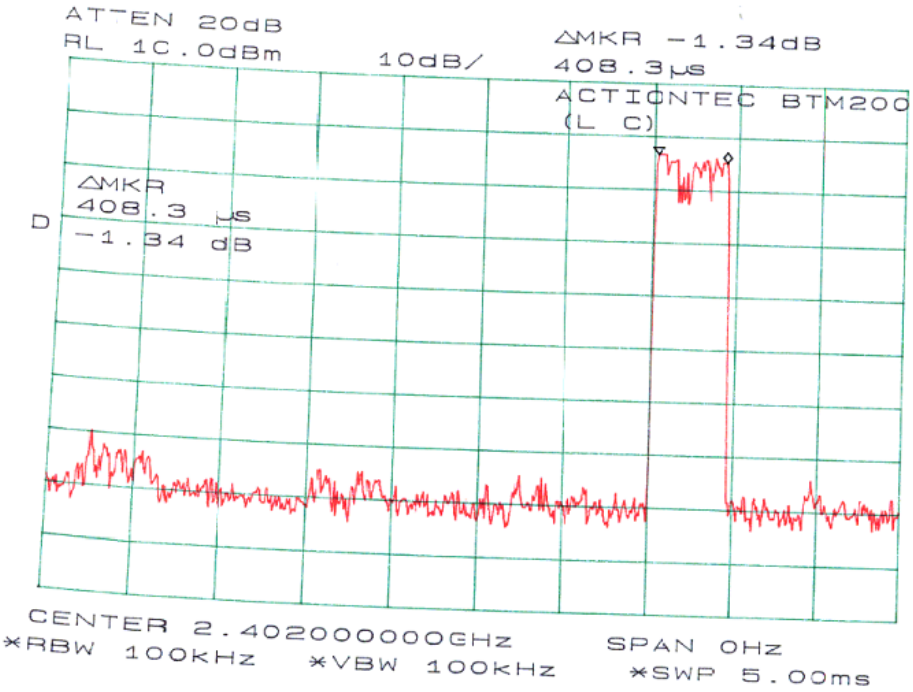
EUT and its simulators are placed on a turn table, the EUT and let it work normally, let EUT working in test mode,then test it.
The bandwidth of the fundamental frequency was measured with the spectrum analyser using 100KHz RBW and 100KHz VBW,set sweep time:5 ms.Span:0Hz.

## 11.2 Test Results : PASS

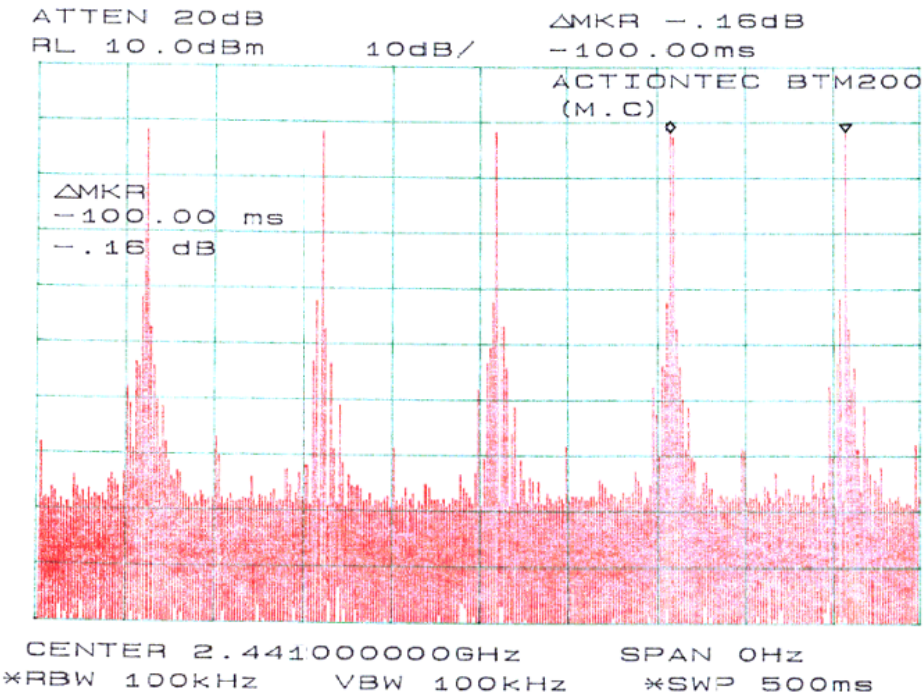
Sample calculation: In normal operation, there are 5 transmissions per 500mS. Therefore, the dwell time for each channel is:
Low Channel: 5 x 0.408 x 0.0632 = 0.128928 s < 0.4 s
The Results are not be greater than 0.4 seconds.
Please fefer the graph as below:

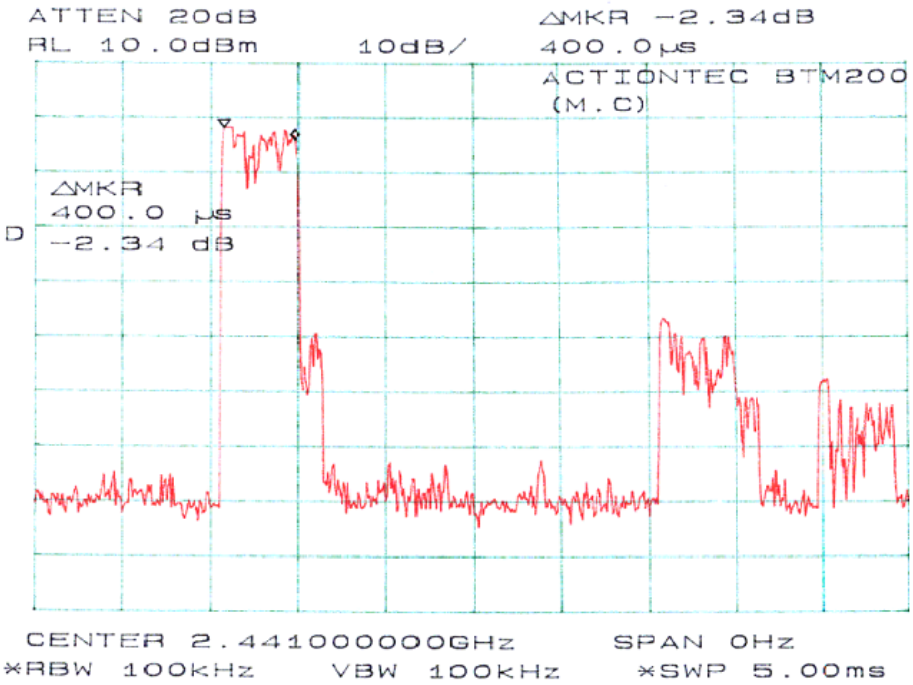
**Channel 0: 2.402GHz**



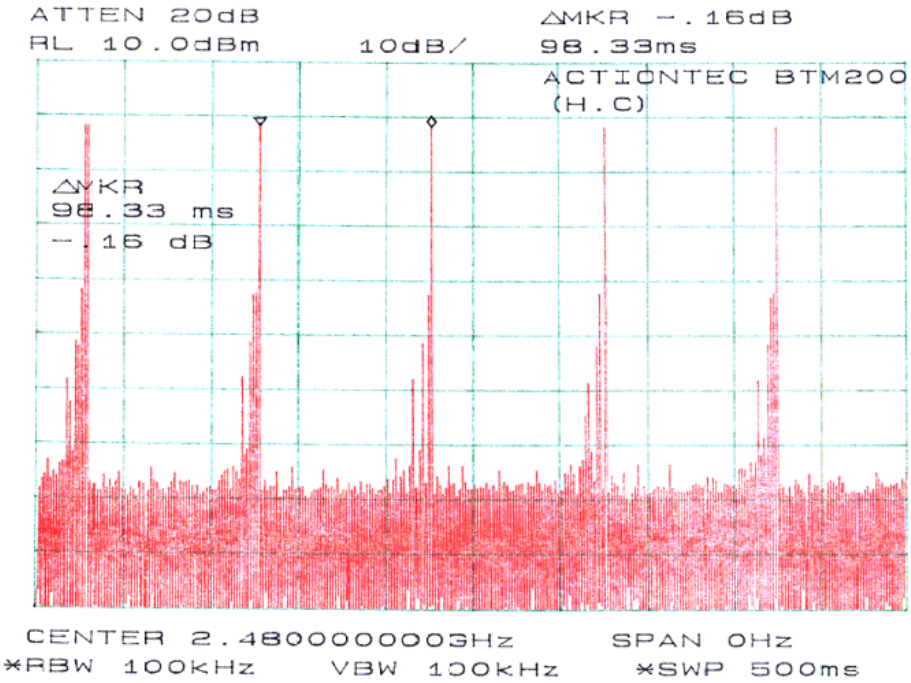



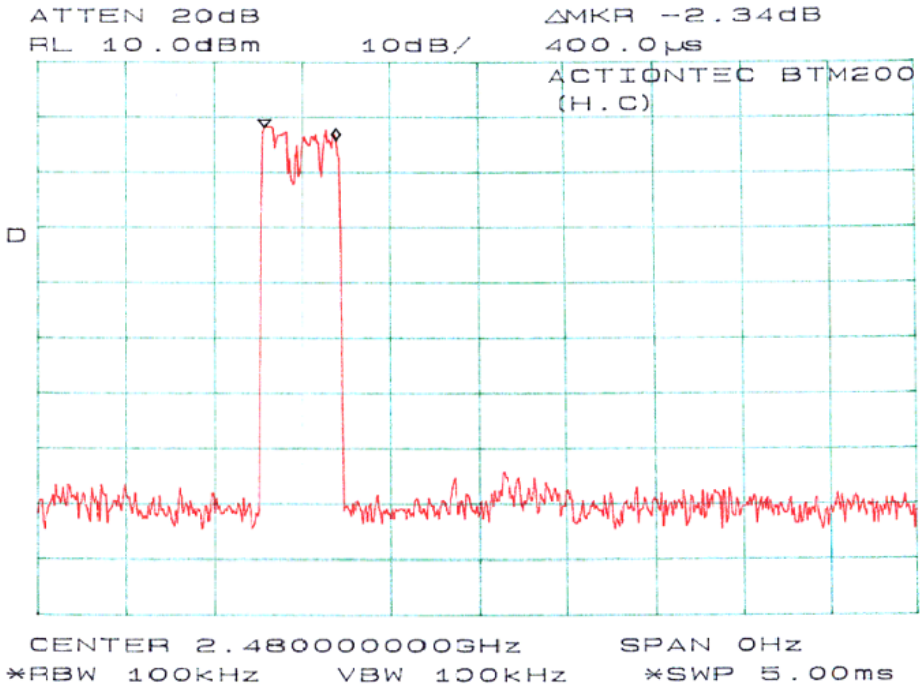
**Channel 39: 2.441GHz**



**Channel 79: 2.480GHz**



# 12 Band Edge

Test Requirement: FCC Part15 C
Test Method: Based on FCC Part15 Paragraph 15.247
Test Date: April 21, 2005
Test mode: On TX

## 12.1 Test Procedure

1. The EUT, peripherals were put on the turntable which table size is 1mX1.5m, table high 0.8m. All set up is according to ANSI C63.4.
2. With the EUT's antenna attached,The EUT's radiated emission power was received by the test antenna which was connected to the spectrum analyser with the START and STOP frequencies set to the EUT's operation band. Measurements were made at 3 meters.
3. The antenna high were varied from 1m to 4m high to find the maximum emission for each frequency.
4. The bandwidth of the fundamental frequency was measure by spectrum analyser with 100KHz RBW and 100KHz VBW.The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

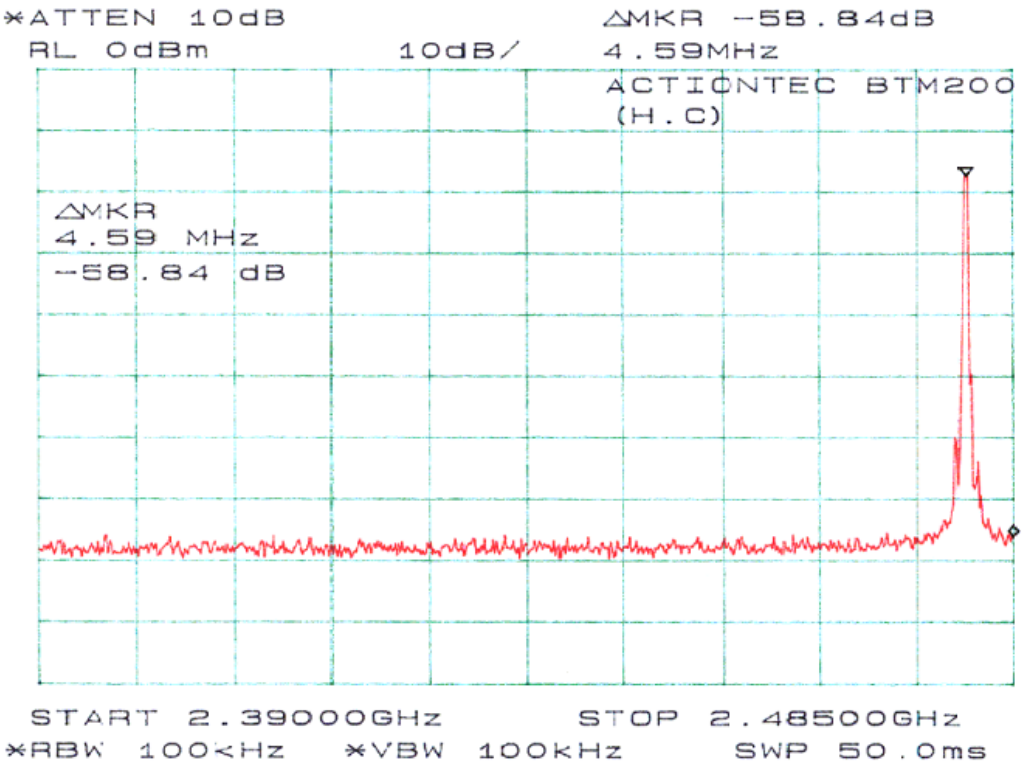
## 12.2 Band Edge

Requirements:FCC 15.247(c), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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)).

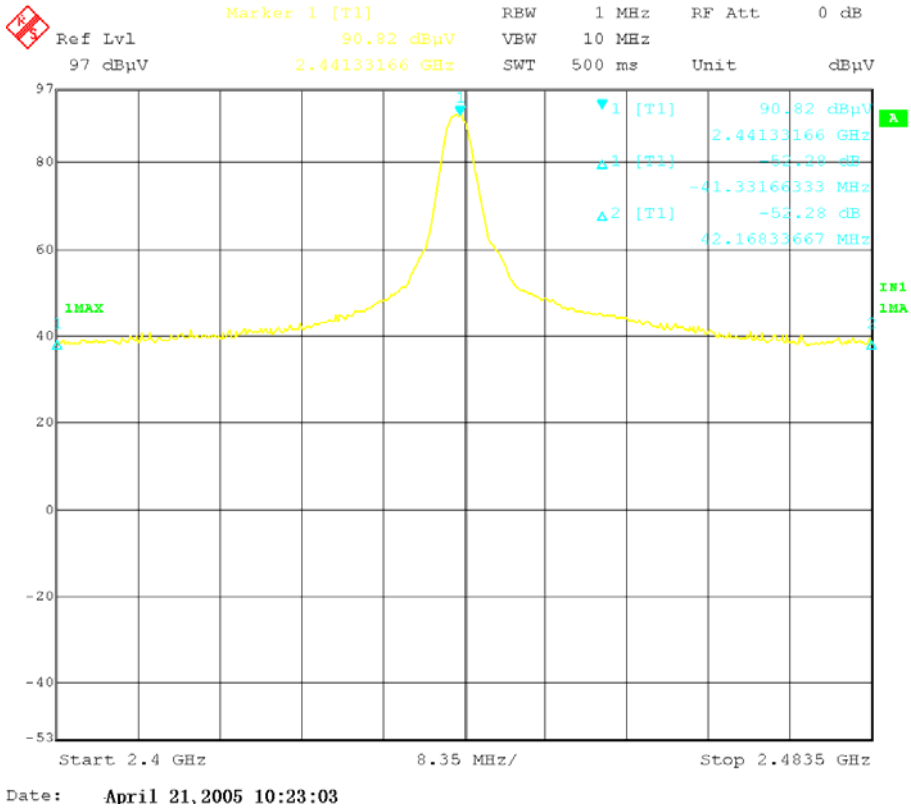
## 12.3 Test Result

The high Edges:the value is 58.84dBm that is attenuated more than 20dB.

Please fefer the graph as below:



## 12.4 20dB Bandwidth Test Result



# 13 Power Spectral Density

Test Requirement: FCC Part15 Paragraph 15.247

Test Method: Based on ANSI 63.4

Test Date: April 21, 2005

Requirements: Regulation 15.247(d) For direct sequence systems,The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmission.

Test procedure:

The tests below are running with the EUT transmitter set at high power mode.APCMCIA port from a notebook computer to the EUT.The EUT is needed to force selection of output power lever and channel number.While testing, EUT was set ot transmit continuously.A horn antenna was connected with the spectrum analyser.

The EUT is tested in Chamber.Put EUT on the middle of a wooden table.Set spectrum analyzer RBW=3KHz,VBW>RBW(e.g.VBW=10KHz),Span=2 MHz.Turn around the table to find maximum emission.

1. Then set the Span=300KHz and sweep time= 100sec.Peak the maximum emission again.Record the test field strength.
2. Calculate the transmitter's peak power using the following equation:
   Power=(E x d)squared/(30 x G)
   Where:E=the measured maximum field strength in V/m.
   Set the RBW>6dB bandwidth of the emission or use a peak power meter.
   .G= the numeric gain of the transmitting antenna over an isotropic radiator.
   .d= the distance in meters from which the field strength was measured.
   .P= the power in watts is the final Maximum Peak Output Power.

The EUT was set transmitting contimuously and force selection of output power level and channel number.We'd observed that the peak levels aren't greater than +8dBm limit.

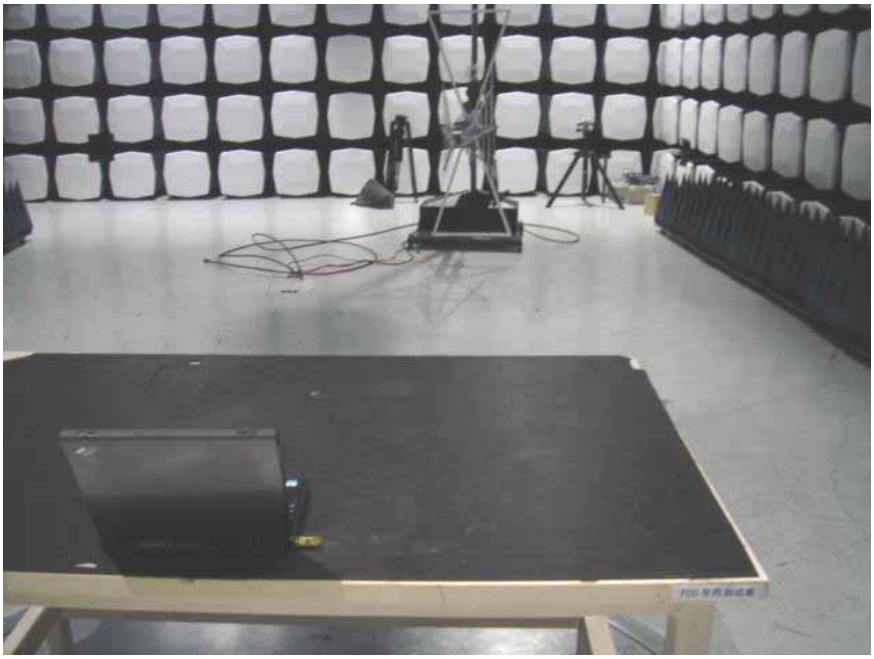
**Test Result:**

| Test Channel | Fundamental Frequency(GHz) | RF Power level in 3KHz BW Filed Strength(dBuV/m) | Gain(dBi) | RF Power level in 3KHz BW (dBm) | Maximum Limit (dBm) | PASS/FAIL |
|---|---|---|---|---|---|---|
| low | 2.402 | 82.9 | +2 | -13.33 | 8.0 | PASS |
| middle | 2.441 | 80.8 | +2 | -15.43 | 8.0 | PASS |
| high | 2.480 | 79.6 | +2 | -16.63 | 8.0 | PASS |

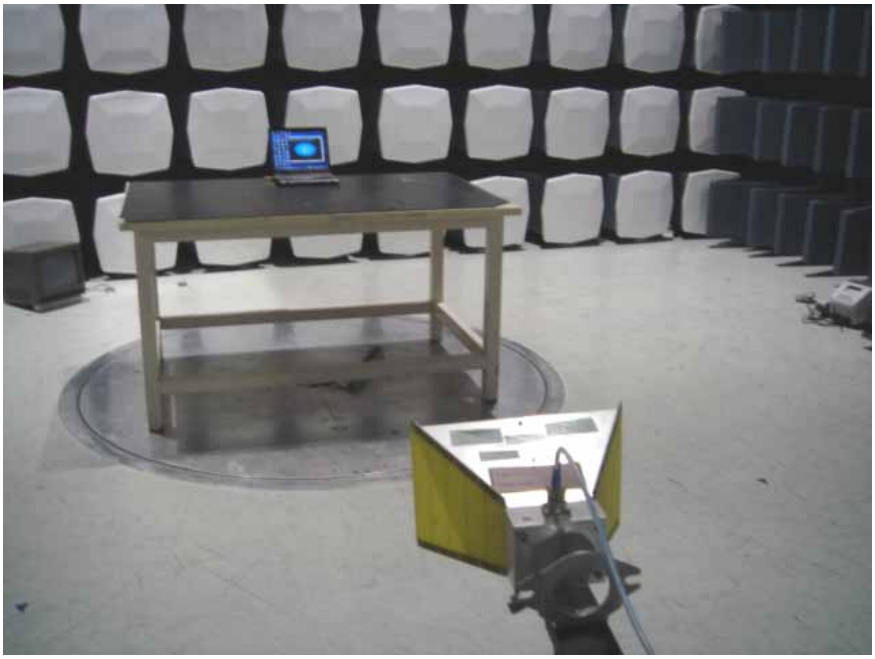
# 14 Photographs of Testing

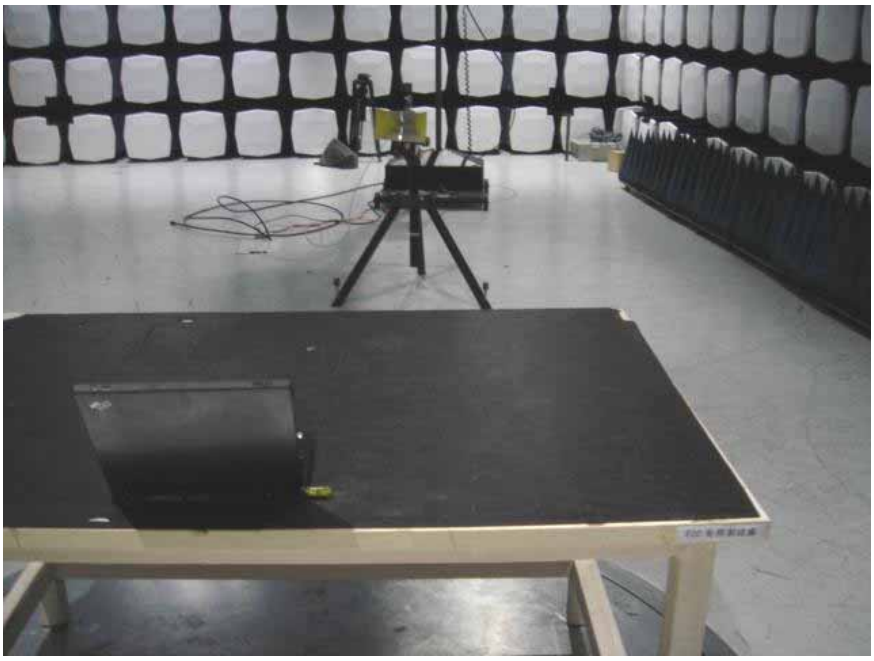
## 14.1 Conduction Emission Test Setup View

## 14.2 Radiation Emission Test View For 30MHz-1000MHz



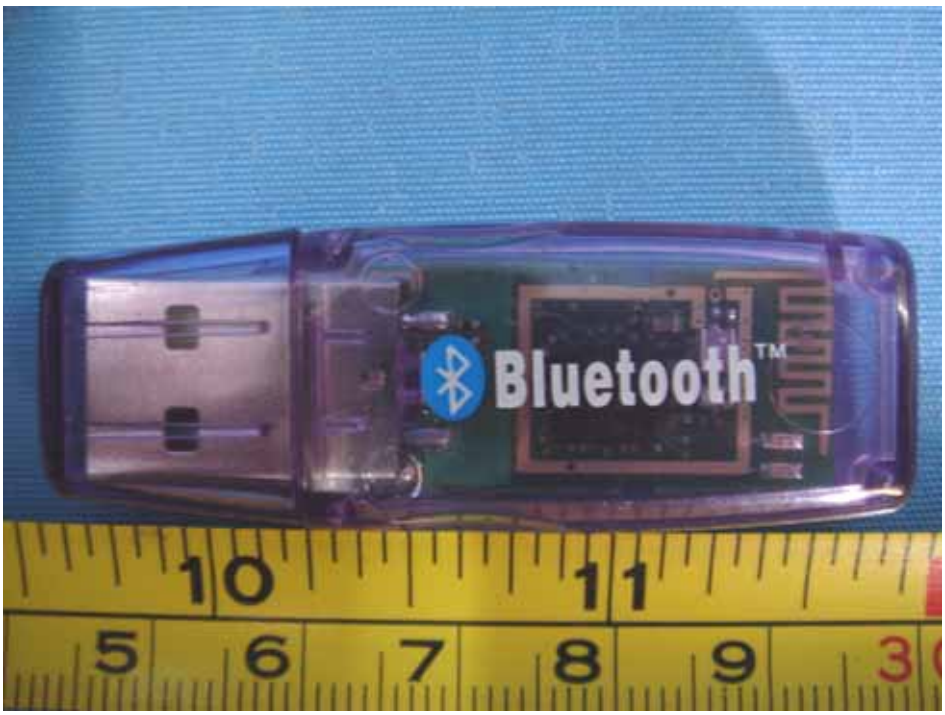
## 14.3 Radiation Emission Test View For 1GHz-25GHz



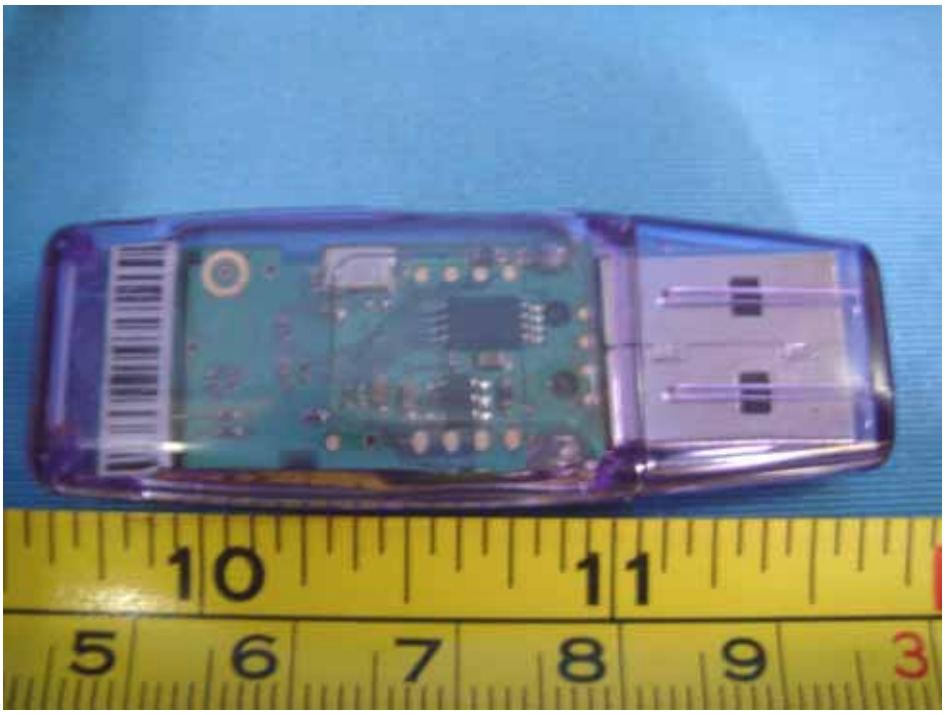


# 15 Photographs - Constructional Details

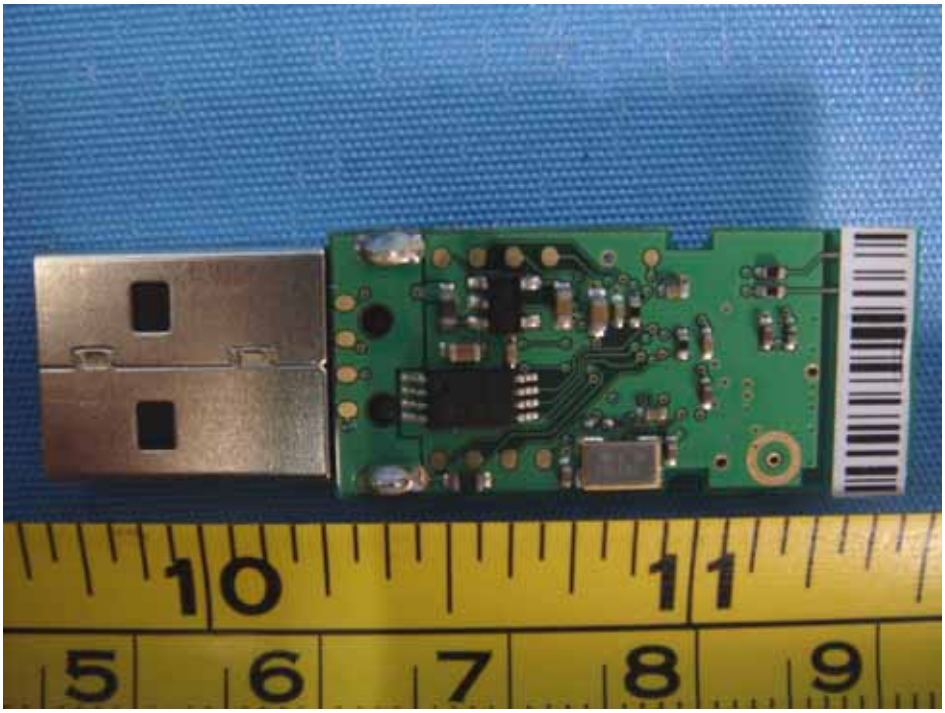
## 15.1 EUT - Front View



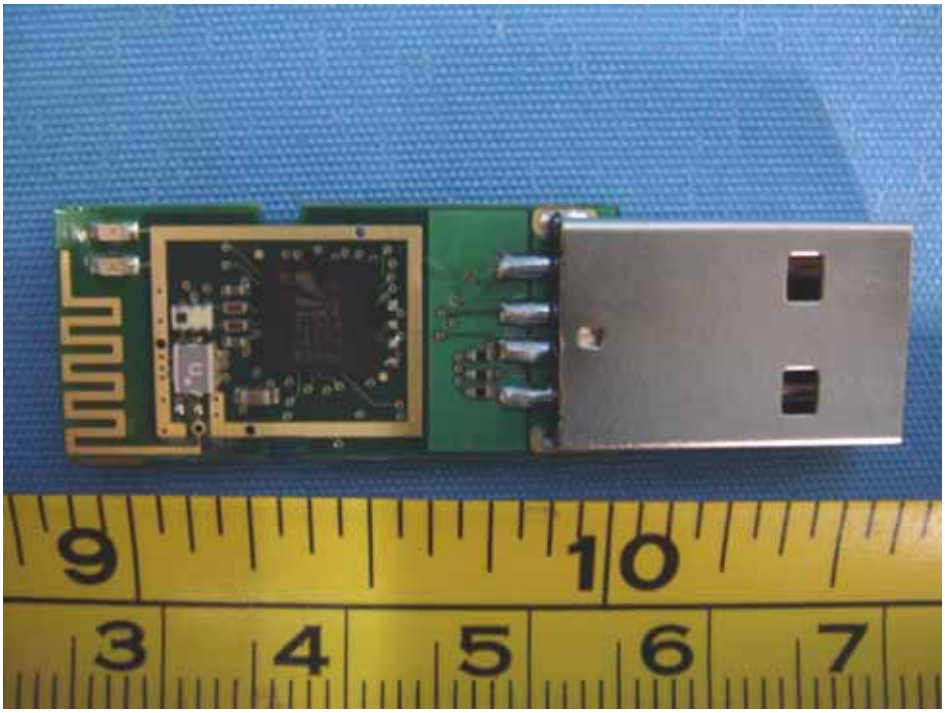

## 15.2 EUT - Back View



## 15.3 PCB - Component View(1)



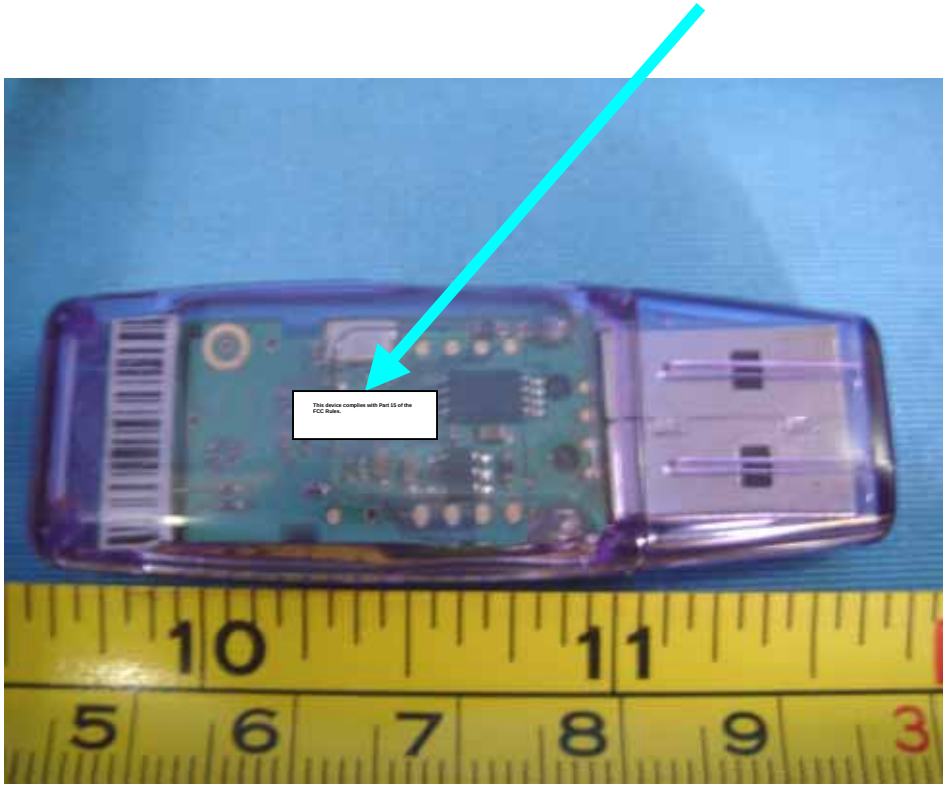
## 15.4 PCB - Component View(2)



# 16 FCC ID Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT

EUT Bottom View/proposed FCC Mark Location