

# ***FCC TEST REPORT***

**FCC ID** : OU4XWC900-HRDN

**Applicant** : **Xanboo Inc**  
115 WEST 30<sup>TH</sup> STREET, 6<sup>TH</sup> FLOOR NEW YORK, NY10001

**Equipment Under Test (EUT) :**

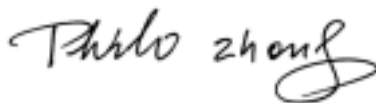
Product description : CCD Day/Night MCAM

Model No. : XWC900-HRDN

**Standards** : FCC 15 Paragraph 15.205, Paragraph 15.209, Paragraph 15.231,  
Paragraph 15.249, Paragraph 15.31, Paragraph 15.33, Paragraph 15.35.

**Date of Test** : March 09, 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

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

## 4 General Information

### 4.1 Client Information

Applicant: **Xanboo Inc**  
Address of Applicant: 115 WEST 30<sup>TH</sup> STREET, 6<sup>TH</sup> FLOOR NEW YORK, NY10001

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

Product description: CCD Day//Night MCAM  
Model No.: XWC900-HRDN

### 4.3 Details of E.U.T.

Power Supply: Transmitter Adaprot  
Input: 120V AC/60Hz; output:12VDC 400mA

### 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 CCD Day/Night MCAM. The standards used were FCC 15 Paragraph 15.205, Paragraph 15.209, Paragraph 15.231, Paragraph 15.249, Paragraph 15.31, Paragraph 15.33, Paragraph 15.35.

#### **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 tests were 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

| <b>Conducted Emission Test</b> |                                   |                     |                          |                      |                  |                 |
|--------------------------------|-----------------------------------|---------------------|--------------------------|----------------------|------------------|-----------------|
| <b>Item</b>                    | <b>Test Equipment</b>             | <b>Manufacturer</b> | <b>Model No.</b>         | <b>Serial No.</b>    | <b>Cal. Date</b> | <b>Due date</b> |
| 1                              | Shielding Room                    | ETS                 | 8 x 4 x 4 m <sup>3</sup> | N0.2                 | N/A              | N/A             |
| 2                              | LISN                              | Rohde & Schwarz     | ESH2-Z5                  | 100028               | 06-11-2004       | 05-11-2005      |
| 3                              | EMI Test Receiver                 | Rohde & Schwarz     | ESCS30                   | 100038               | 18-11-2004       | 17-11-2005      |
| <b>Radiated Emission Test</b>  |                                   |                     |                          |                      |                  |                 |
| <b>Item</b>                    | <b>Test Equipment</b>             | <b>Manufacturer</b> | <b>Model No.</b>         | <b>Serial No.</b>    | <b>Cal. Date</b> | <b>Due date</b> |
| 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                              | EMI Test Software                 | ROHDE & SCHWARZ     | ES-K1                    | N/A                  | N/A              | N/A             |
| 5                              | Bilog Type Antenna                | ETS                 | 2075                     | 2346                 | 02-12-2004       | 01-12-2005      |
| 6                              | Horn Antenna                      | ROHDE & SCHWARZ     | HF906                    | 1000029              | 05-11.2004       | 04-11-2005      |
| 7                              | Ultra-Broadband Antenna           | ROHDE & SCHWARZ     | HL562                    | 100015               | 02-12-2004       | 01-12-2005      |
| <b>Common Used Equipment</b>   |                                   |                     |                          |                      |                  |                 |
| <b>Item</b>                    | <b>Test Equipment</b>             | <b>Manufacturer</b> | <b>Model No.</b>         | <b>Series No.</b>    | <b>Cal. Date</b> | <b>Due date</b> |
| 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             |
| 4                              | Printer                           | EPSON               | 830                      | N/A                  | N/A              | N/A             |
| 5                              | Base Station/Gateway              | Motorola            | HMGW1070                 | 506837-001-00        | N/A              | N/A             |

## 6 Conducted Emission Test

|                   |  |
|-------------------|--|
| Product:          | CCD Day//Night MCAM M/N: XWC900-HRDN   |
| Test Requirement: | FCC Part15 Paragraph 15.207  |
| Test Method:      | Based on FCC Part15 Paragraph 15.207   |
| Test Date:        | March 09, 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<br>Average Limit |

### 6.1 Test Equipment

Please refer to Section 5 this report.

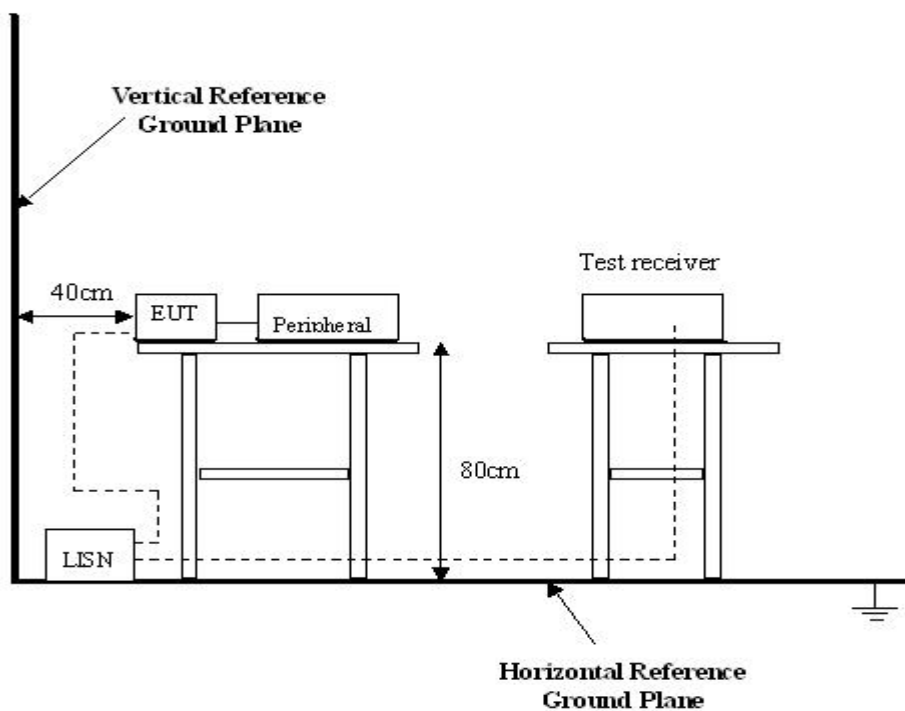
### 6.2 Test Procedure

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

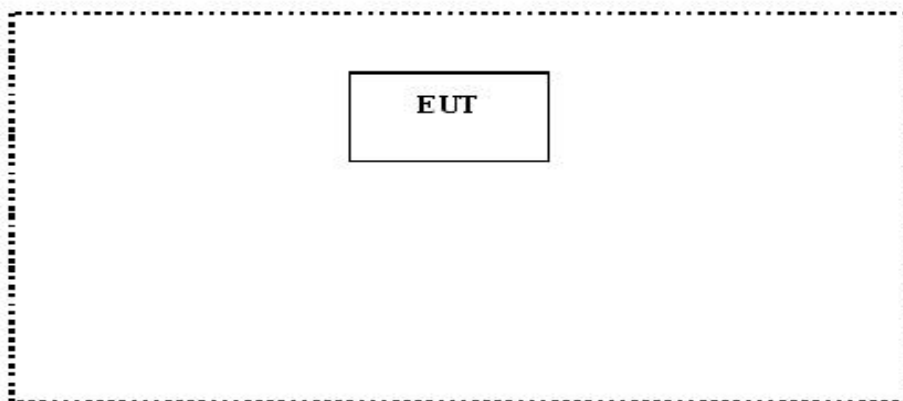
The conducted emission tests were performed using the setup accordance with the ANSI C63.4, The specification used in this report was the FCC Part15 Paragraph 15.207 limits.



### 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 dB $\mu$ V/m between 0.15MHz & 0.5MHz

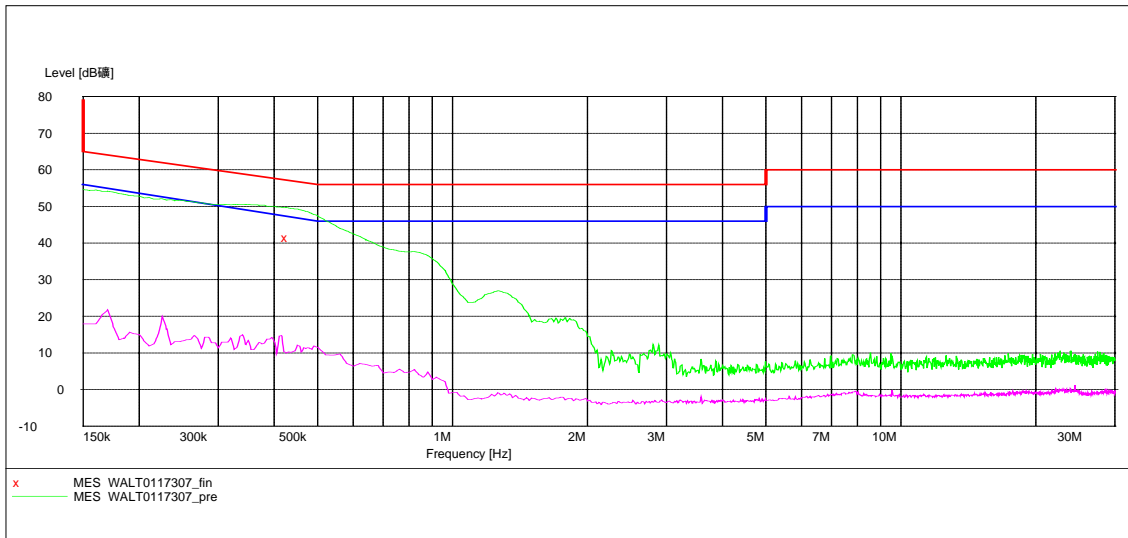
56 dB $\mu$ V/m between 0.5MHz & 5MHz

60 dB $\mu$ V/m between 5MHz & 30MHz

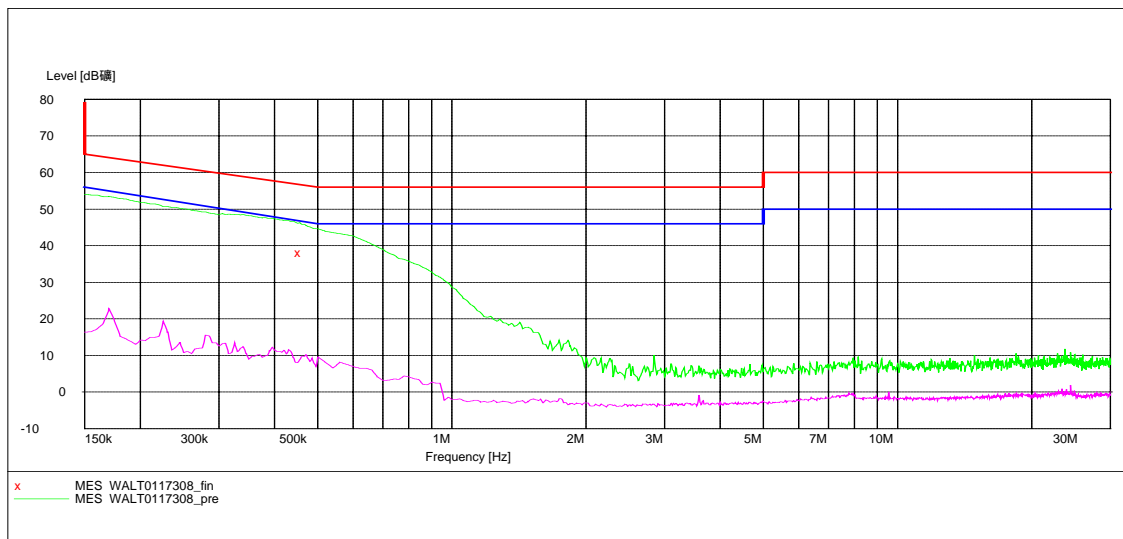
**Note:** In the above limits, the tighter limit applies at the band edges.

### 6.6 Conducted Emission Test Data

Live Line:



Neutral Line:



**6.7 Conducted Emissions Test Data**

| Freq.<br>MHz | Line    | QP<br>Reading<br>dBuV | Limit<br>dBuV | Margin<br>dB | AV<br>Reading<br>dBuV | Limit<br>dBuV | Margin<br>dB |
|--------------|---------|-----------------------|---------------|--------------|-----------------------|---------------|--------------|
| 0.150000     | Live    | 48.4                  | 66.0          | 17.6         | 18.3                  | 56.0          | 37.7         |
| 0.430000     | Live    | 41.8                  | 57.0          | 15.2         | 10.1                  | 47.0          | 36.9         |
| 0.150000     | Neutral | 49.1                  | 66.0          | 16.9         | 17.4                  | 56.0          | 38.6         |
| 0.460000     | Neutral | 38.2                  | 57.0          | 18.8         | 9.7                   | 47.0          | 37.3         |

## 7 Radiation Emission Test

|                       |   |
|-----------------------|---|
| Product:              | CCD Day//Night MCAM M/N: XWC900-HRDN  |
| Test Requirement:     | FCC Part15 Paragraph 15.209, Paragraph 15.231 and Paragraph 15.249                                  |
| Test Method:          | Based on FCC Part15 Paragraph 15.33   |
| Test Date:            | March 09, 2005  |
| Frequency Range:      | 30MHz to 25GHz  |
| Measurement Distance: | 3m  |
| Detector:             | Peak for pre-scan (120kHz resolution bandwidth)<br>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.

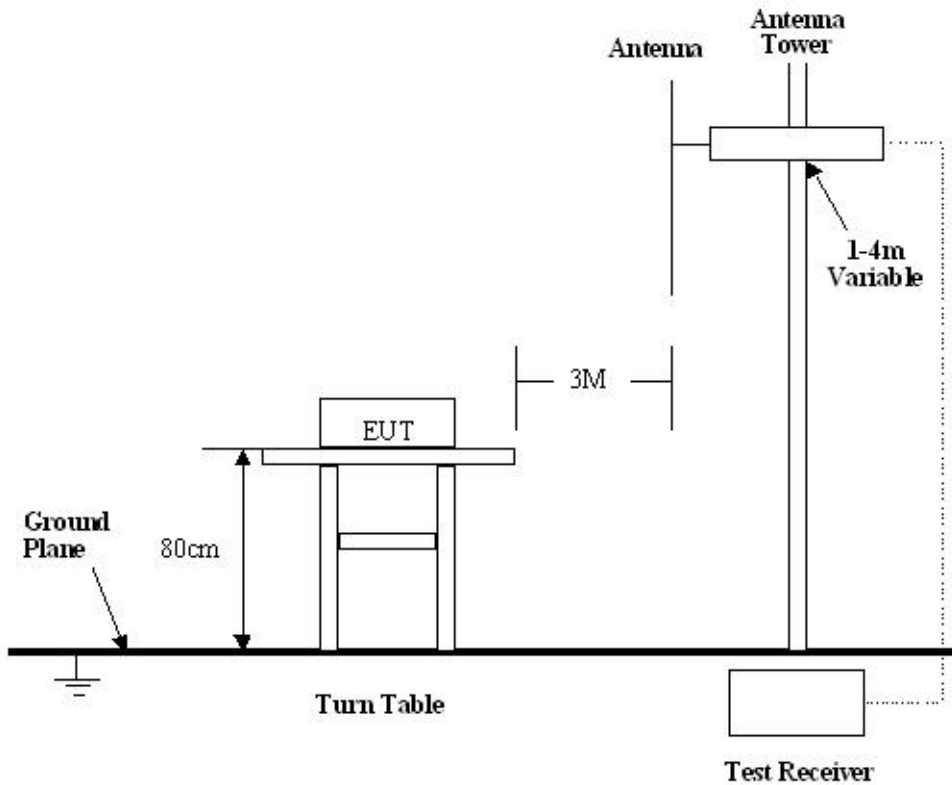
Based on ANSI C63.4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at SZHTW is +4.0 dB.

### 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 dB $\mu$ V 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, Paragraph 15.231 and Paragraph 15.249 limits.



**7.5 Spectrum Analyzer Setup**

According to FCC Part15 Paragraph 15.209, Paragraph 15.231 and Paragraph 15.249 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

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

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

## 7.7 Summary of Test Results

According to the data in section 7.10, the EUT complied with the FCC Part15 Paragraph 15.209, Paragraph 15.231 and Paragraph 15.249 standards.

## 7.8 EUT Operating Condition

Same as section 6.4 of this report.

## 7.9 Radiated Emissions Limit

### A. FCC Part 15 subpart C Paragraph 15.231 Limit

| Fundamental<br>Frequency(MHZ) | Field Strength of Fundamental |        |
|-------------------------------|-------------------------------|--------|
|                               | uV/m                          | dBuV/m |
| 418                           | 10351                         | 80.3   |
| Harmonics                     | 1035                          | 60.3   |

**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 instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.



**B. FCC Part 15 subpart C Paragraph 15.249 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 instrumentation 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 74dBuV/m, According to Part 15.35(b) and average is 54BuV/m.

**C. 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 established by adding  
 The meter reading of the spectrum analyzer (which is set to read in units of dBuV)  
 To the antenna correction factor supplied by the antenna manufacturer. The antenna  
 Correction factors are stated in terms of dB.The gain of the pressletor was accounted  
 For in the spectrum analyser meter reading.

Example:

$$\text{Freq(MHz)} \text{ Meter Reading} + \text{ACF} = \text{FS}$$

$$33 \quad 20\text{dBuV} + 10.36\text{dB} = 30.36\text{dBuV/m} @ 3\text{m}$$

**A. Fundamental Radiated Emission Data for 418MHz**

Test Item: Fundamental Radiated Emission Data  
 Test Voltage: 120VAC/60Hz  
 Test Mode: On  
 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 ( ° ) |
|-----------------|----------------------|-------------------------|---------------------------------|-------------|--------------------|-----------------------|
| 418.793665      | Vertical             | 77.37                   | 80.3                            | 2.93        | 1.4                | 45                    |
| 836.885772      | Vertical             | 46.21                   | 60.3                            | 14.09       | 2.0                | 180                   |
| 418.793665      | Horizontal           | 76.53                   | 80.3                            | 3.97        | 1.6                | 60                    |
| 836.509821      | Horizontal           | 45.88                   | 60.3                            | 14.42       | 2.0                | 180                   |

**B. Fundamental Radiated Emission Data for 2.4GHz**

Test Item: Fundamental Radiated Emission Data  
 Test Voltage: 120VAC/60Hz  
 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    |                      |                         |                                 |             |                    |                       |
| 2410.653556      | Vertical             | 88.50                   | 94.0                            | 5.50        | 1.5                | 90                    |
| 2410.653556      | Horizontal           | 86.12                   | 94.0                            | 7.88        | 1.5                | 90                    |
| Middle frequency |                      |                         |                                 |             |                    |                       |
| 2440.861755      | Vertical             | 89.74                   | 94.0                            | 4.26        | 1.5                | 90                    |
| 2440.861755      | Horizontal           | 87.40                   | 94.0                            | 6.60        | 1.5                | 90                    |
| High frequency   |                      |                         |                                 |             |                    |                       |
| 2470.629789      | Vertical             | 87.30                   | 94.0                            | 6.70        | 1.5                | 90                    |
| 2470.629789      | Horizontal           | 85.50                   | 94.0                            | 8.50        | 1.5                | 90                    |

**C. General Radiated Emission Data**

Test Item: General Radiated Emission Data  
 Test Voltage: 120VAC/60Hz  
 Test Mode: On  
 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 (°) |
|-----------------|----------------------|-------------------------|---------------------------------|-------------|--------------------|---------------------|
| 135.691661      | Vertical             | 41.30                   | 43.5                            | 2.2         | 1.4                | 45                  |
| 296.585473      | Vertical             | 38.60                   | 46.0                            | 7.4         | 2.0                | 180                 |
| 568.845251      | Vertical             | 40.50                   | 46.0                            | 5.5         | 1.8                | 60                  |
| 162.796576      | Horizontal           | 40.20                   | 43.5                            | 3.3         | 1.5                | 45                  |
| 213.793459      | Horizontal           | 41.53                   | 46.0                            | 4.47        | 1.6                | 60                  |
| 573.369844      | Horizontal           | 40.80                   | 46.0                            | 5.2         | 2.0                | 180                 |

| Frequency (MHz)                | Antenna Polarization | Emission Level (dBuV/m) | FCC 15 Subpart C Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Turntable Angle (°) |
|--------------------------------|----------------------|-------------------------|---------------------------------|-------------|--------------------|---------------------|
| <b>2.4GHz Low frequency</b>    |                      |                         |                                 |             |                    |                     |
| 4820.365368                    | Vertical             | 46.04                   | 54.0                            | 7.96        | 2.0                | 45                  |
| 7230.210954                    | Vertical             | 39.88                   | 54.0                            | 14.12       | 2.0                | 90                  |
| 4820.127616                    | Horizontal           | 44.55                   | 54.0                            | 9.45        | 2.0                | 180                 |
| 7230.7870567                   | Horizontal           | 38.85                   | 54.0                            | 15.15       | 1.8                | 45                  |
| <b>2.4GHz Middle frequency</b> |                      |                         |                                 |             |                    |                     |
| 4880.695858                    | Vertical             | 45.08                   | 54.0                            | 8.92        | 1.8                | 45                  |
| 7320.428853                    | Vertical             | 40.46                   | 54.0                            | 13.54       | 1.5                | 90                  |
| 4880.887971                    | Horizontal           | 41.21                   | 54.0                            | 12.79       | 2.0                | 180                 |
| 7320.493583                    | Horizontal           | 40.20                   | 54.0                            | 13.80       | 1.5                | 45                  |
| <b>2.4GHz High frequency</b>   |                      |                         |                                 |             |                    |                     |
| 4940.651337                    | Vertical             | 40.80                   | 54.0                            | 13.2        | 2.0                | 60                  |
| 7410.1655398                   | Vertical             | 42.86                   | 54.0                            | 11.14       | 2.0                | 45                  |
| 4940.095834                    | Horizontal           | 41.38                   | 54.0                            | 12.62       | 1.3                | 60                  |
| 7410.573176                    | Horizontal           | 43.75                   | 54.0                            | 10.25       | 1.8                | 180                 |

## 8 Periodic Operation

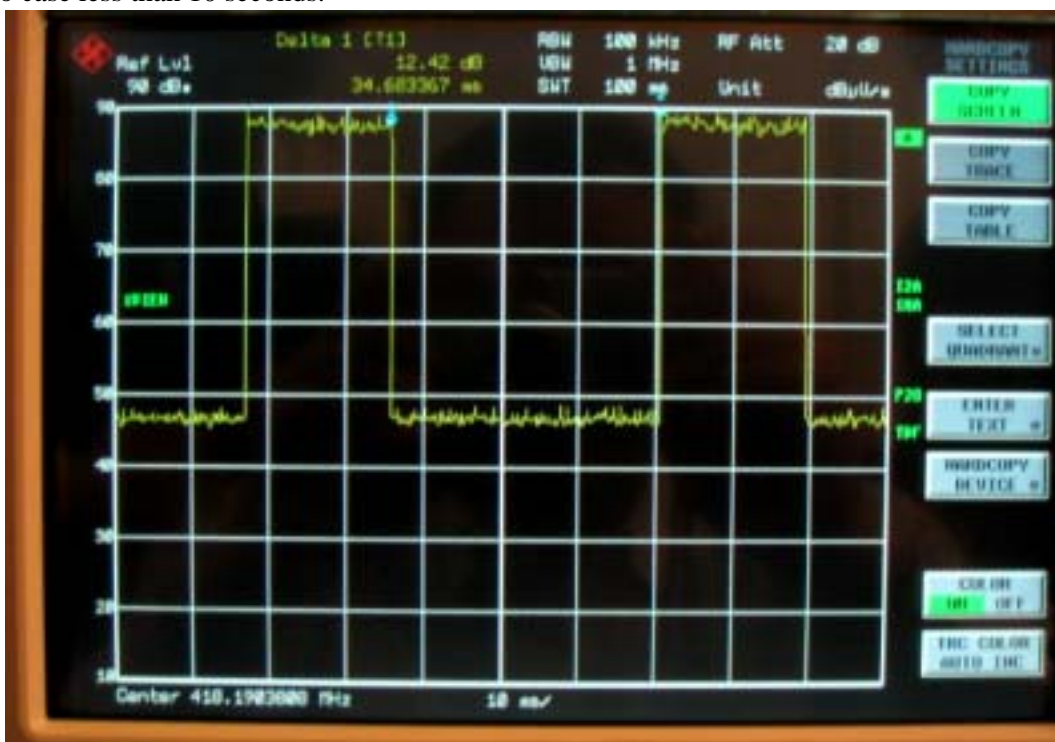
15.23.1(e) Intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) and may be employed for any type of operation, including operation prohibited in paragraph (a), provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this Section, except the field strength table in paragraph (b) is replaced by the following:

Fundamental Field Strength of  
 Frequency Fundamental Spurious Emission  
 (MHz) (microvolts/meter) (microvolts/meter)

|               |                   |               |
|---------------|-------------------|---------------|
| 40.66 - 40.70 | 1,000             | 100           |
| 70 - 130      | 500               | 50            |
| 130 - 174     | 500 to 1,500 **   | 50 to 150 **  |
| 174 - 260     | 1,500 150         |               |
| 260 - 470     | 1,500 to 5,000 ** | 150 to 500 ** |
| Above 470     | 5,000             | 500           |

\*\* linear interpolations

In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.



## 9 Band Edge

|                   |   |
|-------------------|---|
| Test Requirement: | FCC Part15 C  |
| Test Method:      | Based on FCC Part15 Paragraph 15.231 and Paragraph 15.249 |
| Test Date:        | March 05, 2005  |
| Test mode:        | On  |
| Temperature:      | 24 °C   |
| Humidity:         | 52%RH   |

### 9.1 Test Procedure

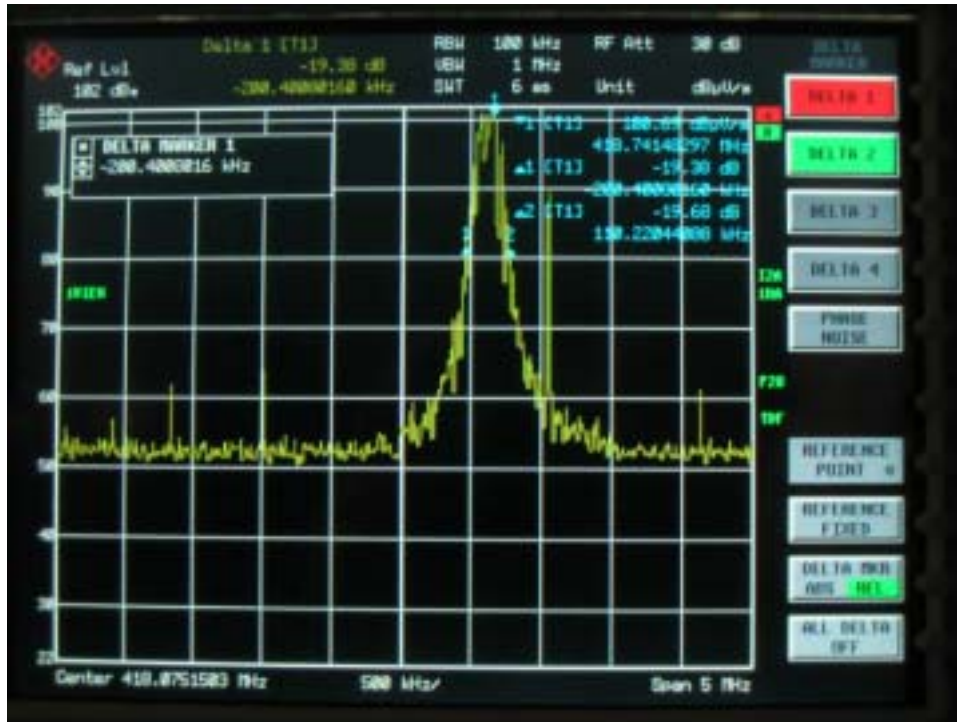
1. The EUT, peripherals were put on the turntable which table size is 1mX1.5m, table high 0.8m. All set up is according to ANSI C63.4.
2. With the EUT's antenna attached,The EUT's radiated emission power was received by the test antenna which was connected to the spectrum analyser with the START and 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 20KHz RBW and 200KHz VBW.The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

### 9.2 Band Edge

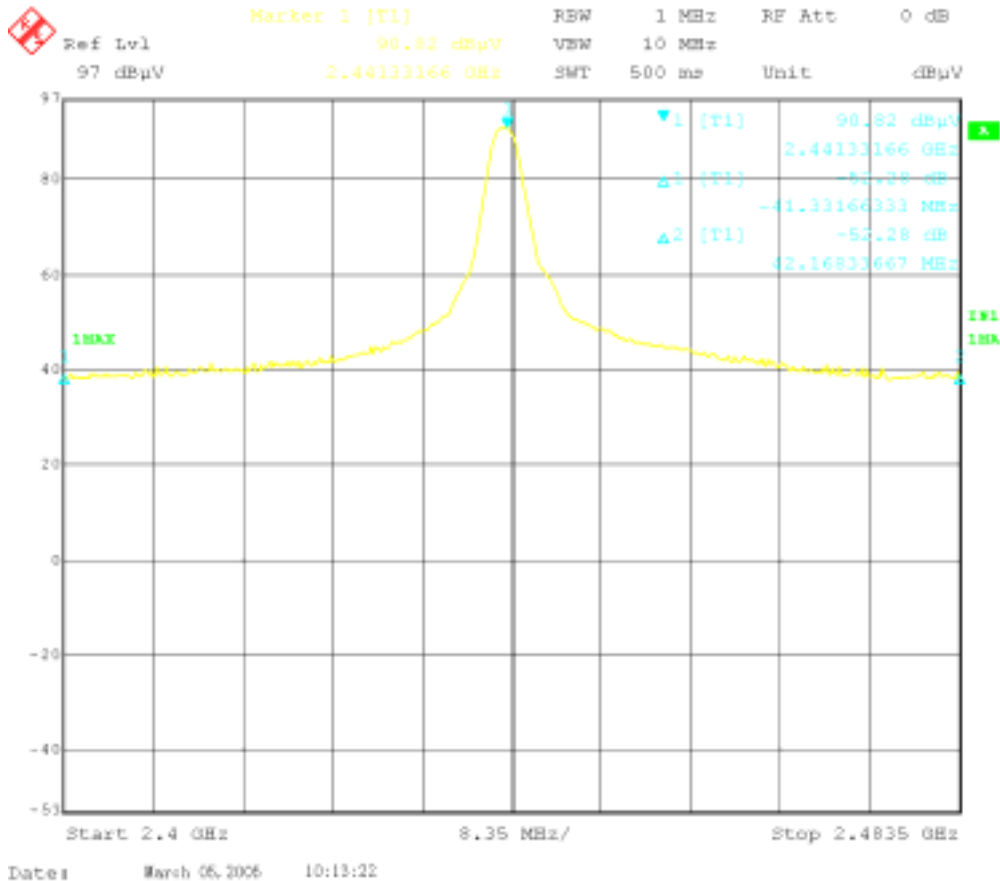
Requirements: Paragraph 15.231 and Paragraph 15.249,The emission power at the START and STOP frequencies shall be at least 50dB below the level of the fundamental or to the general radiated emission limits in FCC 15.209.

### 9.3 Band Edge Test Result

#### 418MHz TX



2.4GHz TX





## 10 Photographs of Testing

### 10.1 Conduction Emission Test View



**10.2 Radiation Emission Test View For 30MHz-1000MHz**



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



## 11 Photographs - Constructional Details

### 11.1 EUT - Front View

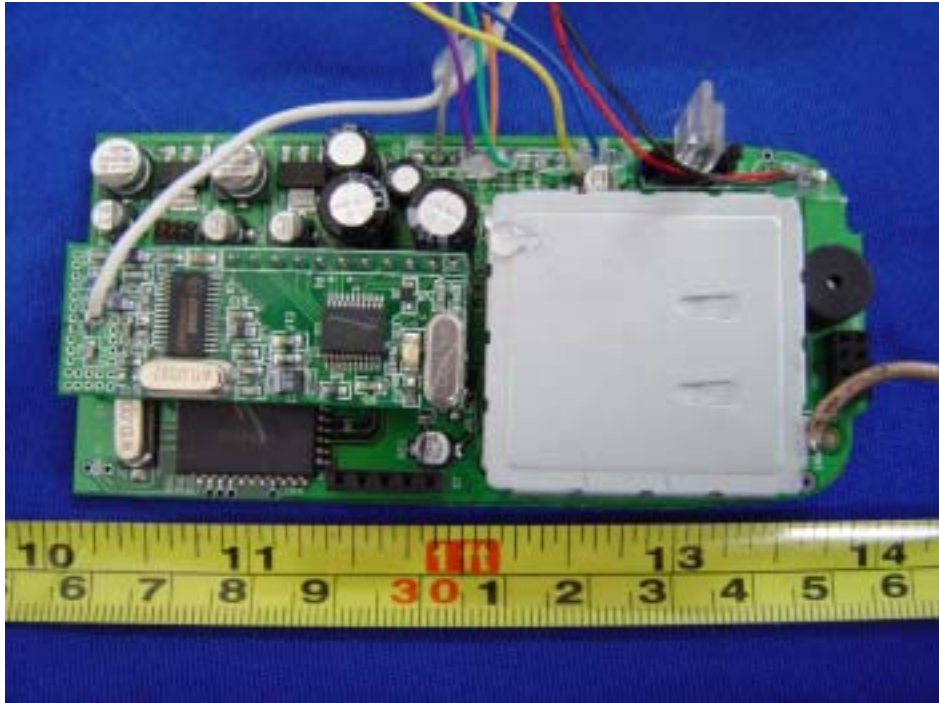


### 11.2 EUT - Back View

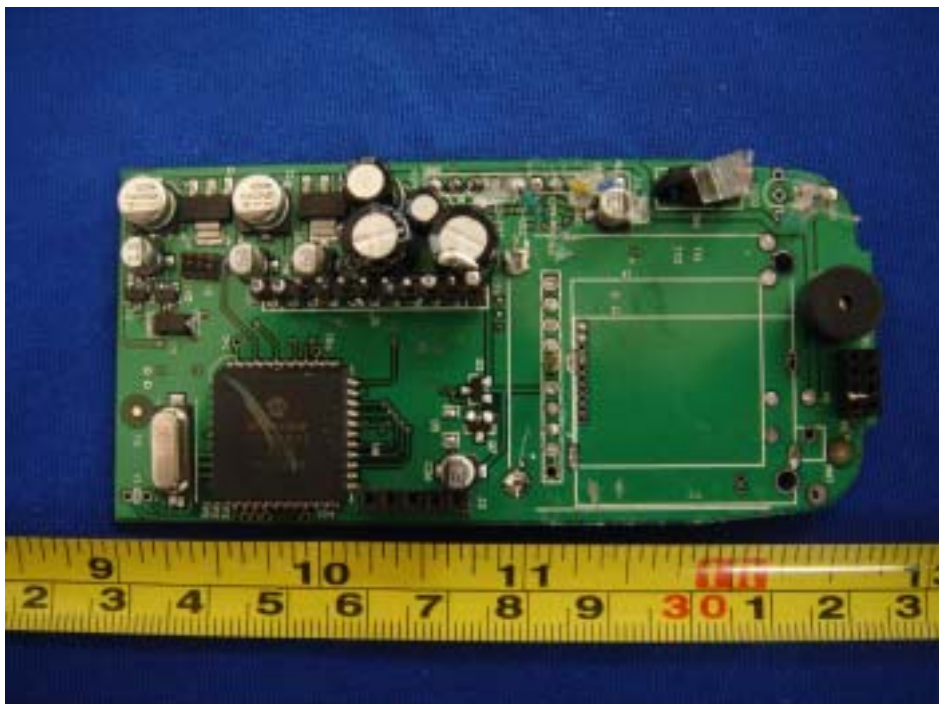




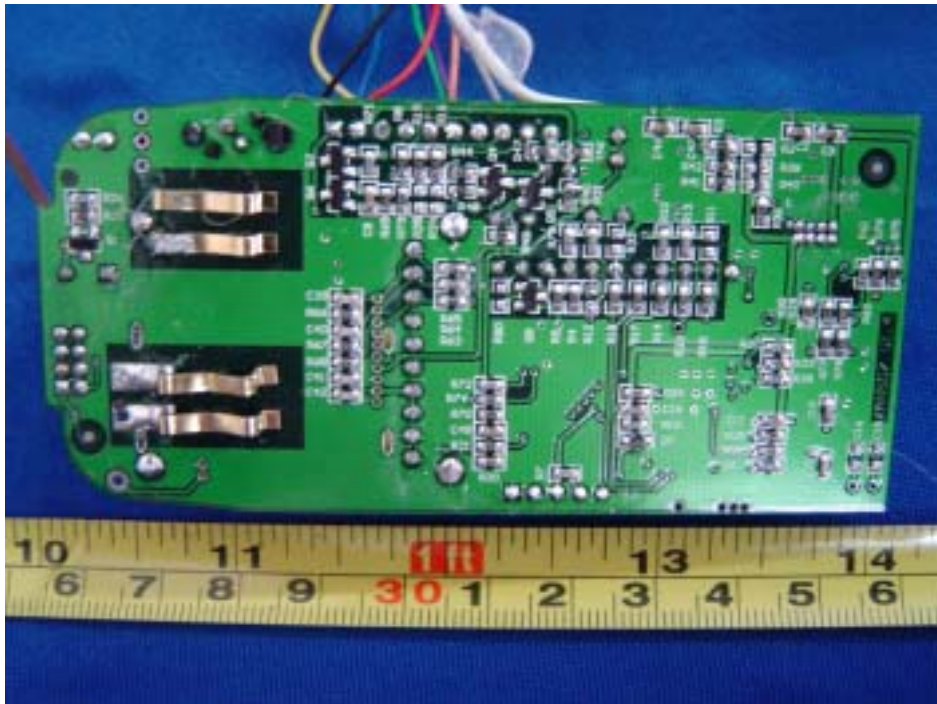
**11.3 PCB - Component View(1)**



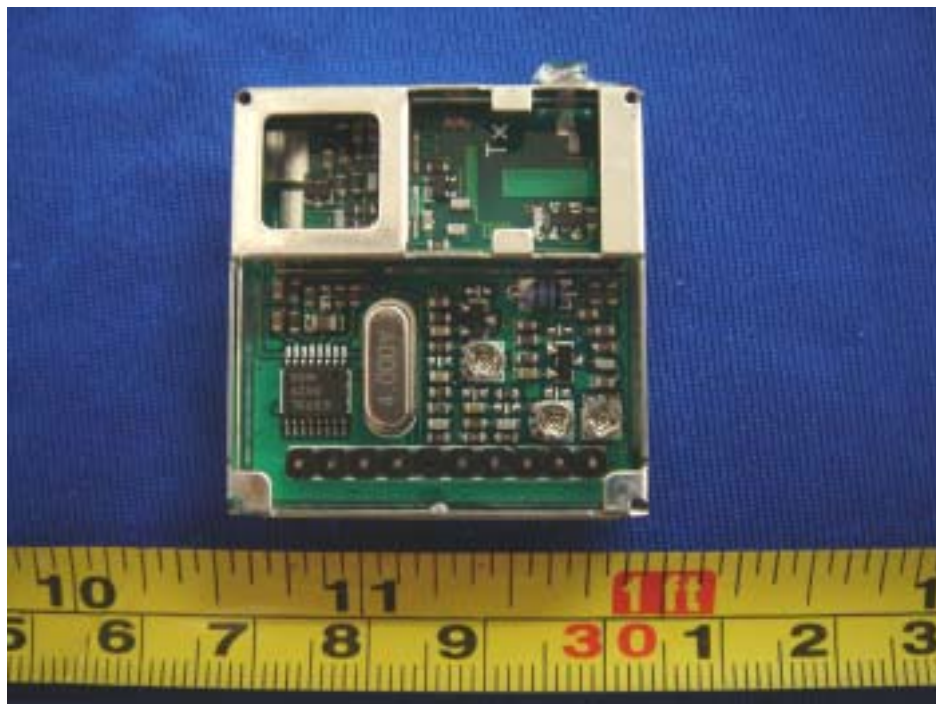
**11.4 PCB - Component View (1.1)**



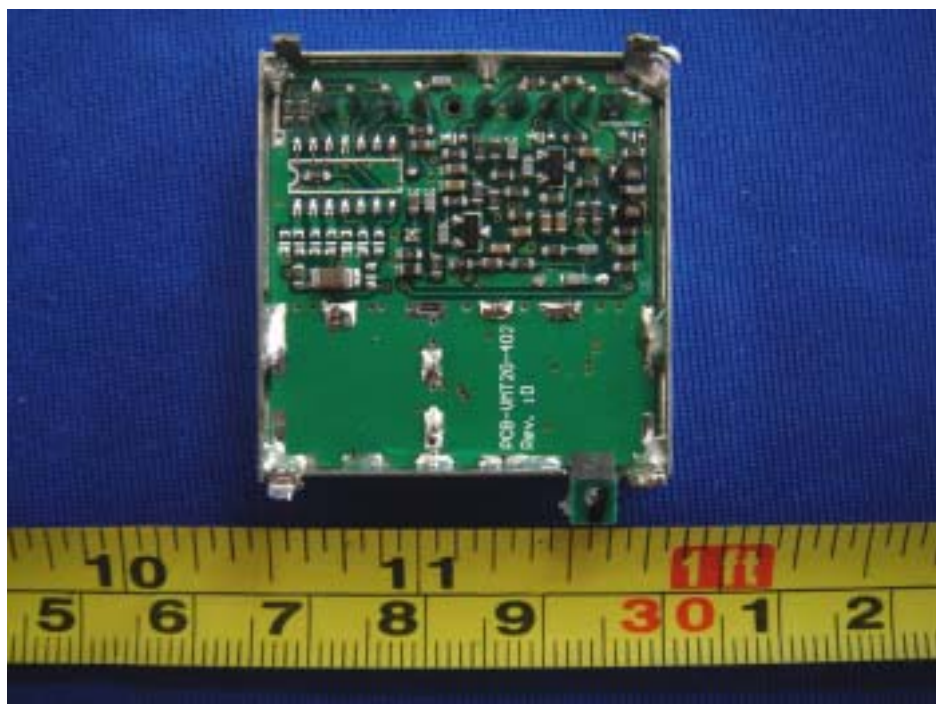
**11.5 PCB - PCB - Solder View(1)**



**11.6 PCB - Component View(2)**

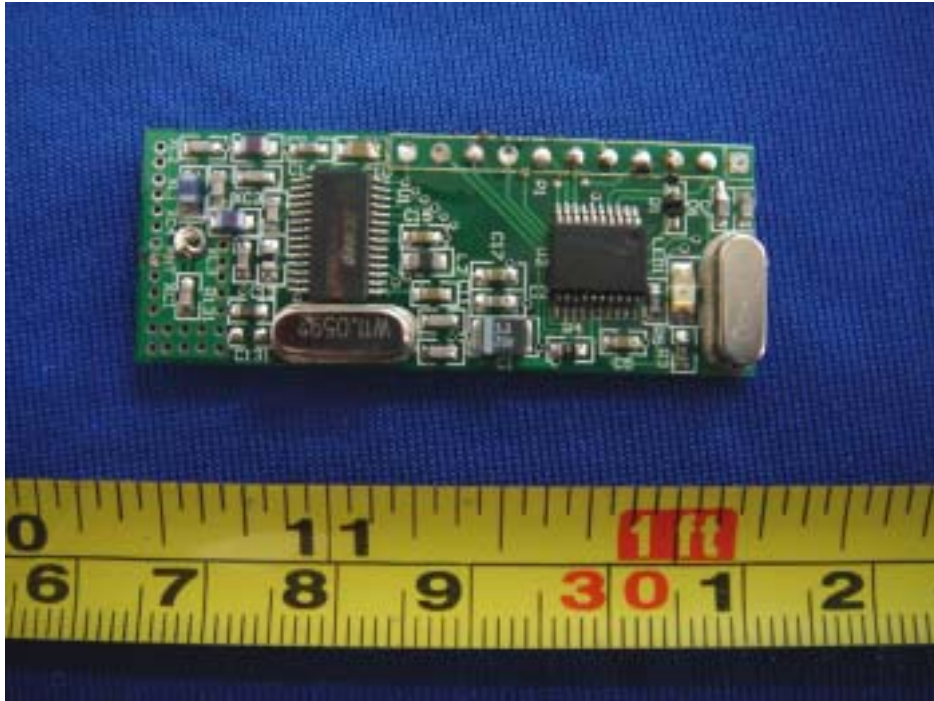


**11.7 PCB - Solder View(2)**

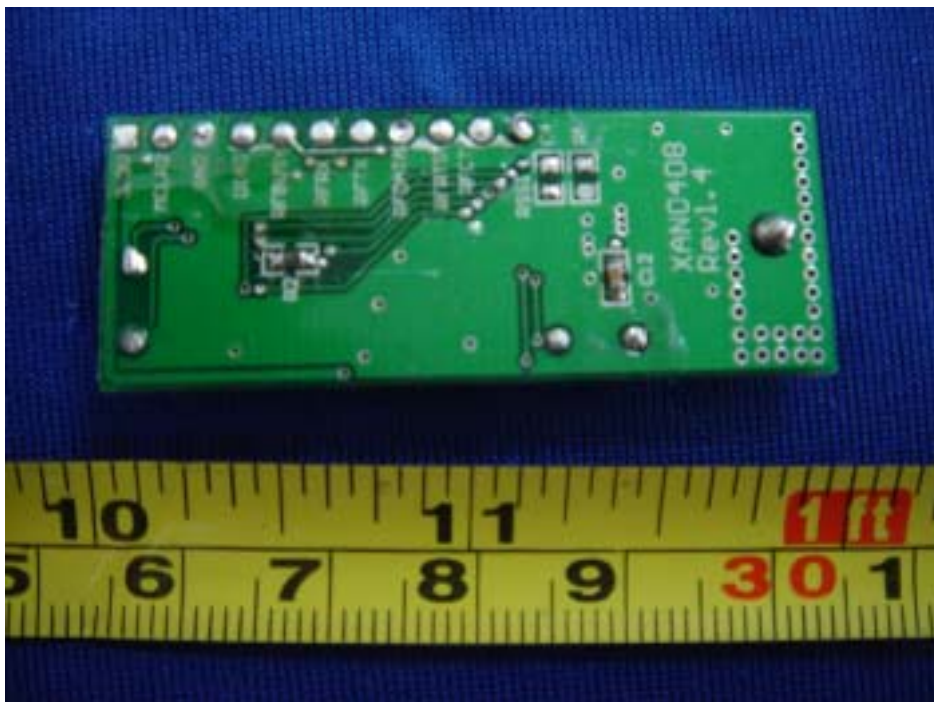




**11.8 PCB - Component View(3)**

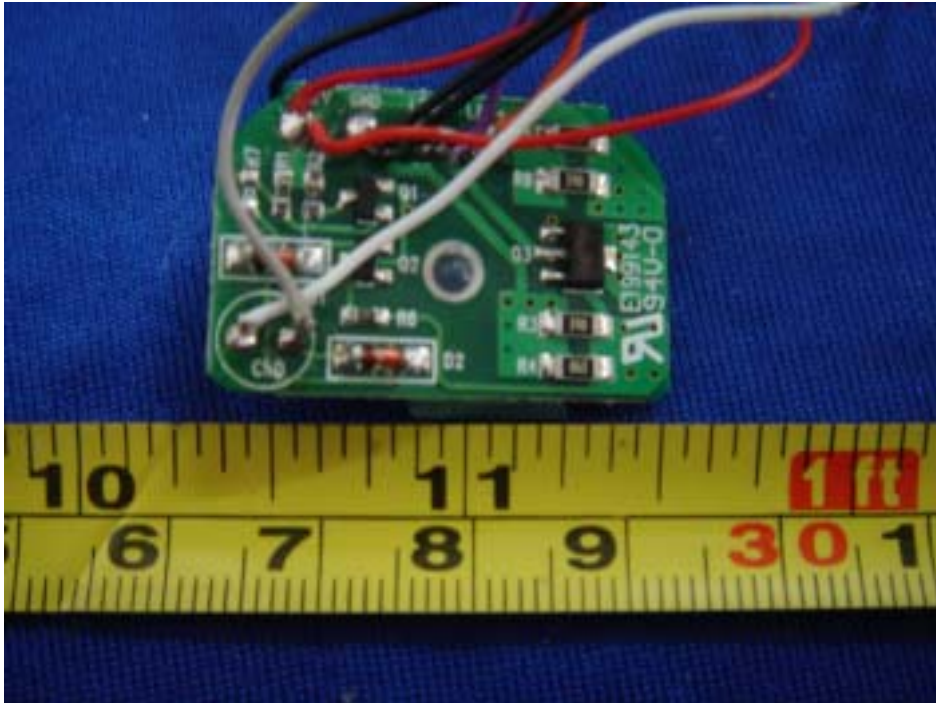


**11.9 PCB - Solder View(3)**

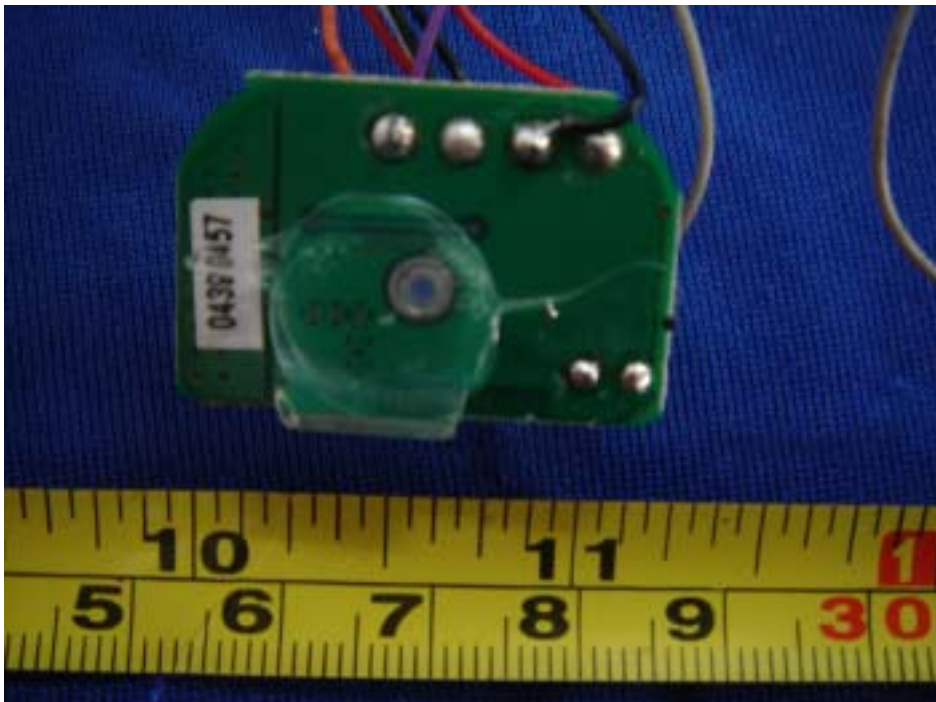




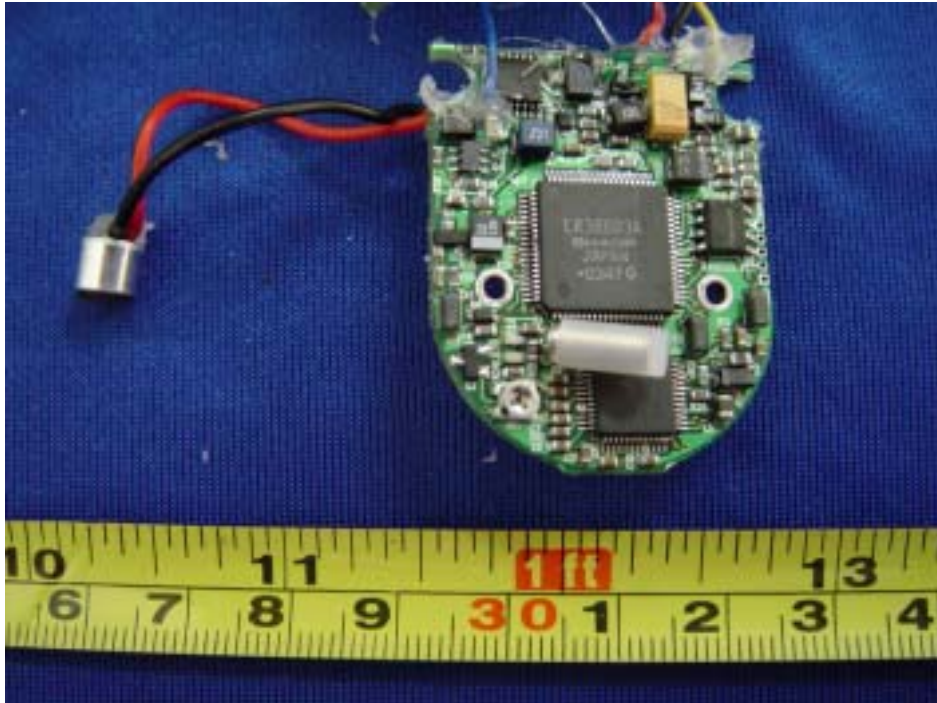
**11.10 PCB - Component View(4)**



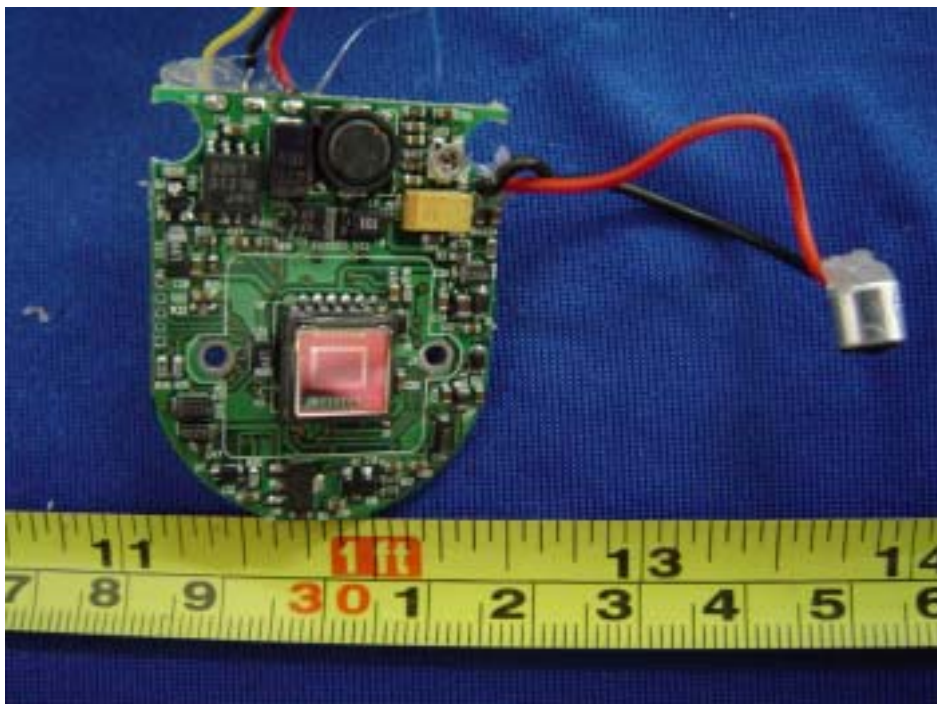
**11.11 PCB - Solder View(4)**



**11.12 PCB - Component View(5)**

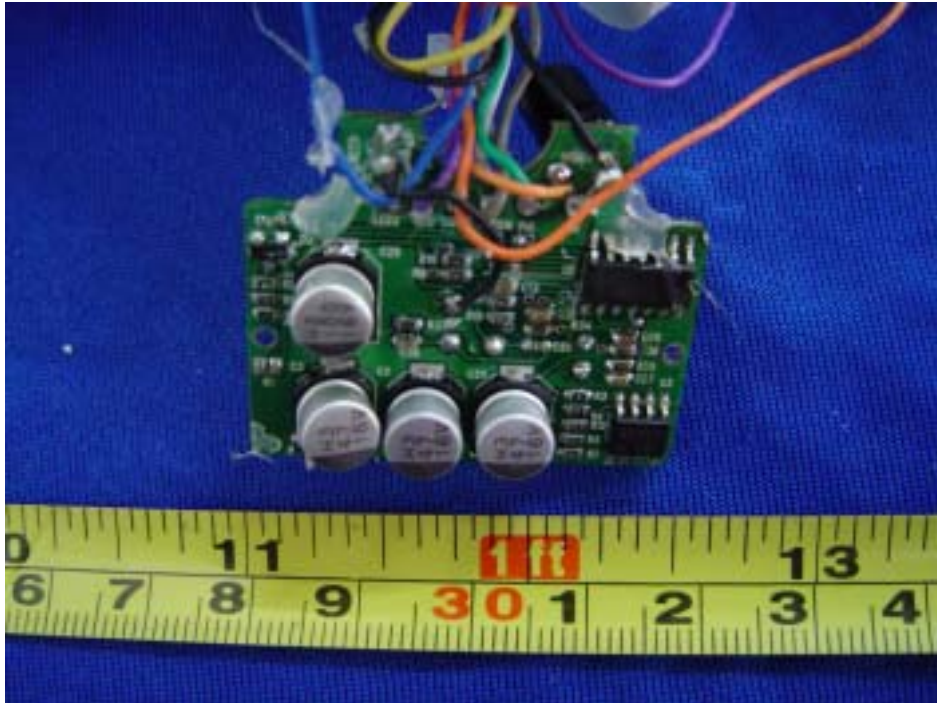


**11.13 PCB - Solder View(5)**

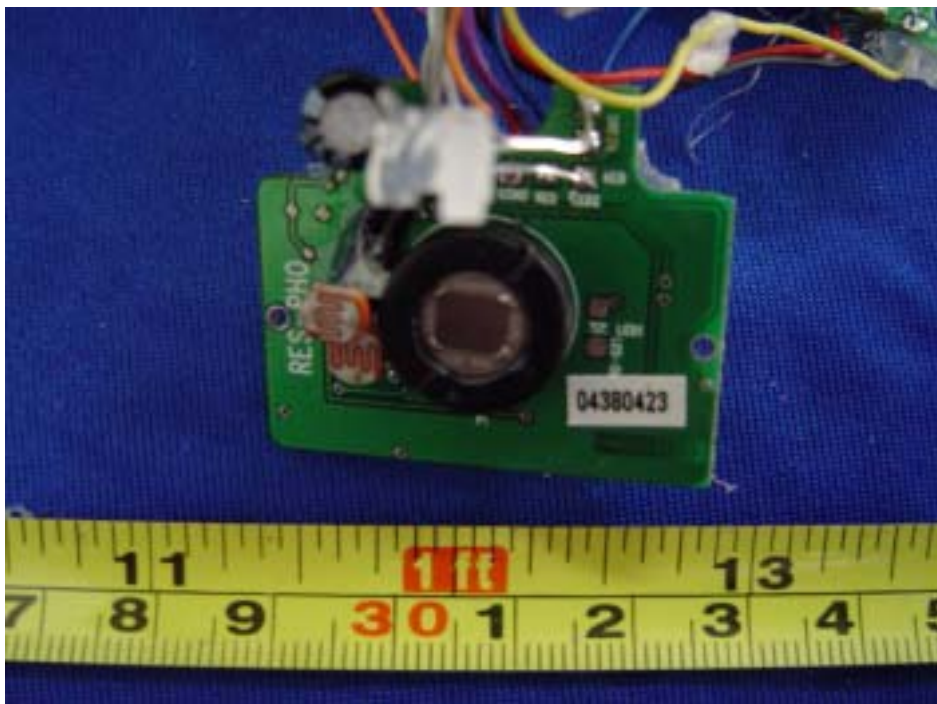




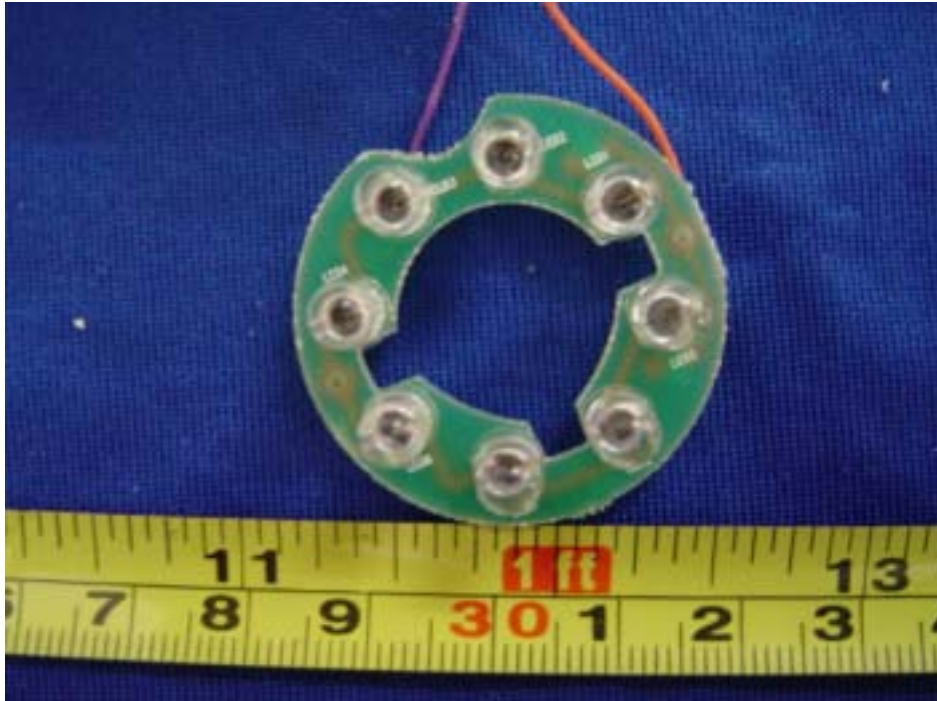
**11.14 PCB - Component View(6)**



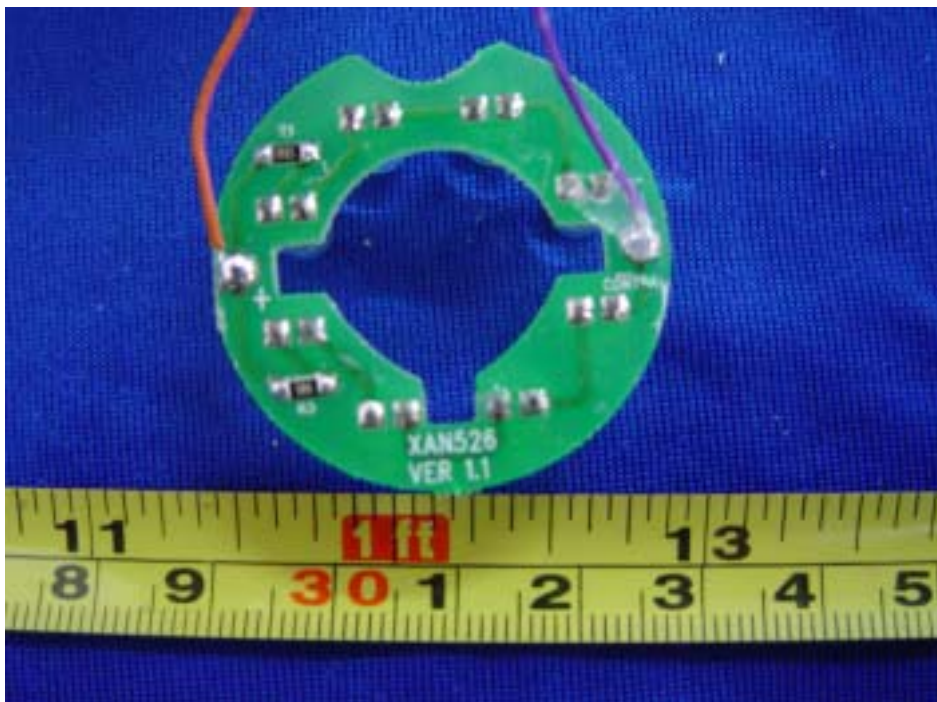
**11.15 PCB - Solder View(6)**



**11.16 PCB - Component View(5)**



**11.17 PCB - Solder View(5)**



## 12 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

