

## ***FCC TEST REPORT***

**FCC ID** : SXJ87039-R

**Applicant** : Asoka Incorporation

**Address of Applicant** : 5F, No.9, Kuang Fu N. Rd., Taipei, Taiwan

**Equipment Under Test (EUT) :**

Product description : Type Pad Pro

Model No. : 87039

Frequency Range : 2402MHz to 2466MHz

**Standards** : FCC 15 Paragraph 15.247

**Date of Test** : Sep. 22, 2009

**Test Engineer** : Olic huang

**Reviewed By** : 

PERPARED BY:

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### 3 Test Summary

| Test Items                                          | Test Requirement | Test Method      | Limit / Severity                 | Result |
|-----------------------------------------------------|------------------|------------------|----------------------------------|--------|
| Maximum peak output power                           | FCC Part 15:2007 | ANSI C63.4: 2003 | 30dBm                            | PASS   |
| Restricted Band                                     | FCC Part 15:2007 | ANSI C63.4: 2003 | Note                             | PASS   |
| Dwell time                                          | FCC Part 15:2007 | ANSI C63.4: 2003 | Maximum:0.4 s                    | PASS   |
| Channel separation                                  | FCC Part 15:2007 | ANSI C63.4: 2003 | Channel separation at least 1MHz | PASS   |
| Hopping channel No.                                 | FCC Part 15:2007 | ANSI C63.4: 2003 | Total 79 channels                | PASS   |
| 20-dB Bandwidth                                     | FCC Part 15:2007 | ANSI C63.4: 2003 | Note                             | PASS   |
| RF Exposure Test                                    | FCC Part 15:2007 | ANSI C63.4: 2003 | Note                             | PASS   |
| Mains Terminal Disturbance Voltage, 150kHz to 30MHz | FCC Part 15:2007 | ANSI C63.4: 2003 | N/A                              | PASS   |
| Radiation Emission, 30MHz to 25GHz                  | FCC Part 15:2007 | ANSI C63.4: 2003 | N/A                              | PASS   |

**Note :** denote that for more details of the EUT , please refer to the relating test items as below .

**Remark :** the methods of measurement in all the test items were according to the FCC Public Notice DA 00-705 .

## 4 General Information

### 4.1 Client Information

|                          |                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------|
| Applicant:               | Asoka Incorporation                                                                                |
| Address of Applicant:    | 5F, No.9, Kuang Fu N. Rd., Taipei, Taiwan                                                          |
| Manufacturer:            | Asoka Electronic (Shenzhen) Company Limited                                                        |
| Address of Manufacturer: | Da Yang Industrial Park, Lou Gang Road, Song Gang Town,<br>Bao An District, Shen Zhen City, China. |

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

|                      |              |
|----------------------|--------------|
| Product description: | Type Pad Pro |
| Model No.:           | 87039        |

Note: the PCB of the EUT is the same, and has ten types of different colors.

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

|               |           |
|---------------|-----------|
| Power Supply: | USB 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 Type Pad Pro. The standards used were FCC 15 Paragraph 15.247, Paragraph 15.205, Paragraph 15.207, Paragraph 15.209, 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.: 880581**

Waltek Services(Shenzhen) 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 880581, June 24, 2008.

- **IC – Registration No.: 7760A**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A, July 24, 2008.

#### 4.7 Test Location

All Emissions tests were performed at:-

1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen 518105, Guangdong, China.

**Remark :** All the test results of the peripherals were conformed to the Fcc Verification requirements.

**4.8 Equipment Used during Test**

| Equipment Name                                                                           | Manufacturer Model                                  | Equipment No   | Internal No | Specification | Cal. Date | Due Date | Cert. No        | Uncertainty                                           |
|------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------|-------------|---------------|-----------|----------|-----------------|-------------------------------------------------------|
| EMC Analyzer                                                                             | Agilent/<br>E7405A                                  | MY451149<br>43 | W2008001    | 9k-26.5GHz    | Aug-09    | Aug-10   | Wws200<br>81596 | ±1dB                                                  |
| Trilog Broadband Antenne 30-3000 MHz                                                     | SCHWARZB<br>ECK MESS-<br>ELEKTROM<br>/ VULB9163     | 336            | W2008002    | 30-3000 MHz   | Aug-09    | Aug-10   |                 | ±1dB                                                  |
| Broad-band Horn Antenna 1-18 GHz                                                         | SCHWARZB<br>ECK MESS-<br>ELEKTROM<br>/ VULB9163     | 667            | W2008003    | 1-18GHz       | Aug-09    | Aug-10   |                 | f<10<br>GHz:<br>±1dB<br>10GHz<f<<br>18 GHz:<br>±1.5dB |
| Broadband Preamplifier 0.5-18 GHz                                                        | SCHWARZB<br>ECK MESS-<br>ELEKTROM<br>/ BBV 9718     | 9718-148       | W2008004    | 0.5-18GHz     | Aug-09    | Aug-10   |                 | ±1.2dB                                                |
| 10m Coaxial Cable with N-male Connectors usable up to 18GHz,                             | SCHWARZB<br>ECK MESS-<br>ELEKTROM<br>/ AK 9515<br>H | -              | -           | -             | Aug-09    | Aug-10   |                 | -                                                     |
| 10m 50 Ohm Coaxial Cable with N-plug, individual length, usable up to 3(5)GHz, Connector | SCHWARZB<br>ECK MESS-<br>ELEKTROM<br>/ AK 9513      |                |             |               | Aug-09    | Aug-10   |                 |                                                       |
| Positioning Controller                                                                   | C&C LAB/<br>CC-C-IF                                 |                |             |               | N/A       | N/A      |                 |                                                       |
| Color Monitor                                                                            | SUNSPO/<br>SP-14C                                   |                |             |               | N/A       | N/A      |                 |                                                       |
| Test Receiver                                                                            | ROHDE&SC<br>HWAARZ/<br>ESPI                         | 101155         | W2005001    | 9k-3GHz       | Aug-09    | Aug-10   | Wws200<br>80942 | ±1dB                                                  |
| EMI Receiver                                                                             | Beijingkehua<br>n                                   | KH3931         |             | 9k-1GHz       | Aug-09    | Aug-10   |                 |                                                       |
| Two-Line V-Network                                                                       | ROHDE&SC<br>HWAARZ/<br>ENV216                       | 100115         | W2005002    | 50Ω/50μH      | Aug-09    | Aug-10   | Wws200<br>80941 | ±10%                                                  |

| Equipment Name                                                                            | Manufacturer Model                             | Equipment No    | Internal No | Specification                                                    | Cal. Date | Due Date | Cert. No        | Uncertainty                                                       |
|-------------------------------------------------------------------------------------------|------------------------------------------------|-----------------|-------------|------------------------------------------------------------------|-----------|----------|-----------------|-------------------------------------------------------------------|
| Absorbing Clamp                                                                           | ROHDE&SC<br>HWAZ/<br>MDS-21                    | 100205          | W2005003    | impedance 50 $\Omega$<br>loss : 17 dB                            | Aug-09    | Aug-10   | Wws200<br>80943 | $\pm 1$ dB                                                        |
| 10m 50 Ohm Coaxial Cable with N-plug, individual length, usable up to 3(5)GHz, Connectors | SCHWARZB<br>ECK MESS-<br>ELEKTROM<br>/ AK 9514 |                 |             |                                                                  | Aug-09    | Aug-10   |                 |                                                                   |
| Digital Power Analyzer                                                                    | Em Test<br>AG/Switzerland/ DPA 500             | V07451<br>03095 | W2008012    | Power:<br>2000VA<br>Vol-range: 0-300V<br>Freq_range: 10-80Hz     | Aug-09    | Aug-10   | Wwd200<br>81185 | Voltage distinguish: 0.025%<br>Power_freq distinguish: 0.02Hz     |
| Power Source                                                                              | Em Test<br>AG/Switzerland/ ACS 500             | V07451<br>03096 | W2008013    | Vol-range: 0-300V<br>Power_freq: 10-80Hz                         |           |          |                 |                                                                   |
| Electrostatic Discharge Simulator                                                         | Em Test<br>AG/Switzerland/DITO                 | V07451<br>03094 | W2008005    | Contact discharge:<br>500V-10KV<br>Air discharge:<br>500V-16.5KV | Aug-09    | Aug-10   | Wwc200<br>82400 | 7.5A current will be changed in $V_m=1.5V$                        |
| RF Generator                                                                              | TESEQ<br>GmbH/<br>NSG4070                      | 25781           | W2008008    | Freq-range:<br>9K-1GHz<br>RF voltage: -60 dBm-+10dBm             | Aug-09    | Aug-10   | Wws200<br>81890 | Power_freq distinguish: 0.1Hz<br>RF electricity distinguish 0.1 B |
| CDN M-Type                                                                                | TESEQ<br>GmbH/ CDN M016                        | 25112           | W2008009    | Voltage correct factor 9.5 dB                                    | Aug-09    | Aug-10   | Wwc200<br>82396 | 150K-80MHz: $\pm 1$ dB<br>80-230MHz: -2-+3dB                      |
| EM-Clamp                                                                                  | TESEQ<br>GmbH/<br>KEMZ 801                     | 25453           | W2008010    | Freq_range: 0.15-1000 MHz                                        | Aug-09    | Aug-10   | Wwc200<br>82397 | 0.3-400 MHz: $\pm 4$ dB<br>Other freq: $\pm 5$ dB                 |
| Attenuator 6dB                                                                            | TESEQ<br>GmbH/<br>ATN6050                      | 25365           |             |                                                                  | Aug-09    | Aug-10   | Wws200<br>81597 |                                                                   |



| Equipment Name                          | Manufacturer Model                     | Equipment No | Internal No | Specification                                   | Cal. Date | Due Date | Cert. No    | Uncertainty                                                                                           |
|-----------------------------------------|----------------------------------------|--------------|-------------|-------------------------------------------------|-----------|----------|-------------|-------------------------------------------------------------------------------------------------------|
| All Modules Generator                   | SCHAFFNER/6150                         | 34579        | W2008006    | voltage:200V-4.4KV<br>Pulse current: 100A-2.2KA | Aug-09    | Aug-10   | Wwc20082401 | voltage: $\pm 10\%$<br>Pulse current: $\pm 10\%$                                                      |
| Capacitive Coupling Clamp               | SCHAFFNER/CDN 8014                     | 25311        |             |                                                 | Aug-09    | Aug-10   | Wwc20082398 | -                                                                                                     |
| Signal and Data Line Coupling Network   | SCHAFFNER/CDN 117                      | 25627        | W2008011    | 1.2/50 $\mu$ S                                  | Aug-09    | Aug-10   | Wwc20082399 | -                                                                                                     |
| AC Power Supply                         | TONGYUN/DTDGC-4                        |              |             |                                                 | Aug-09    | Aug-10   | Wws20080944 | -                                                                                                     |
| Exposure Level Tester ELT-400           | Narda Safety TEST Solutions/2304/03    | M-0155       | w2008022    | Test freq range: 1—400kHz                       | Aug-09    | Aug-10   | Wwd20081191 | Test uncertainty : 1—120kHz: $\pm 1.83\%$ , 120 kHz-400 kHz: $\pm 4.06\%$                             |
| Magnetic Field Probe 100cm <sup>2</sup> | Narda Safety TEST Solutions/2300/90.10 | M-1070       | w2008021    | Test freq range: 1—400kHz                       |           |          |             | Test uncertainty : 1Hz-10Hz: $\pm 16.2\%$ , 10Hz - 120kHz: $\pm 2.2\%$ , 120 kHz-400 kHz: $\pm 4.7\%$ |
| Active Loop Antenna Charger 10kHz-30MHz | Beijing Dazhi / ZN30900A               | -            | -           | 10kHz-30MHz                                     | Aug-09    | Aug-10   |             | $\pm 1\text{dB}$                                                                                      |
| WII                                     | Jap                                    | J235780      | w2008023    | -                                               | Aug-09    | Aug-10   | Wwd20081199 | -                                                                                                     |
| TV                                      | Changhong                              | CHD21388     | w2008033    | --                                              | Aug-09    | Aug-10   | Wwd20081187 | --                                                                                                    |

## 5 Conducted Emission Test

|                   |                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 Paragraph 15.207                                                                                            |
| Test Method:      | Based on FCC Part15 Paragraph 15.207                                                                                   |
| Test Date:        | Sep.22,2009                                                                                                            |
| 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 |

### 5.1 Test Equipment

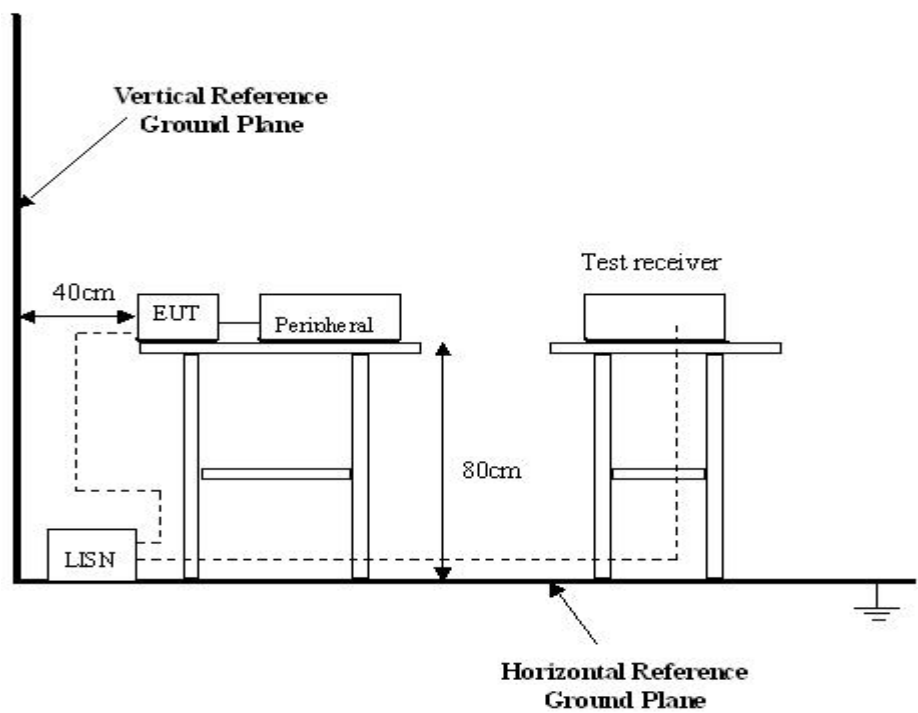
Please refer to Section 5 this report.

### 5.2 Test Procedure

1. The EUT was connected to WII and placed on a table.
2. The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.
3. 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.

5.3 Conducted Test Setup

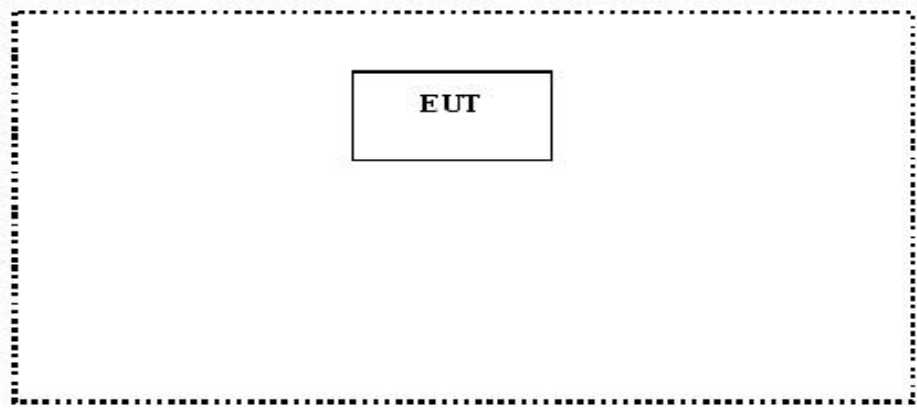
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Paragraph 15.207 limits.



5.4EUT Operating Condition

Operating condition is according to ANSI C63.4:2003.

- 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.



### 5.5 Conducted Emission Limits

66-56 dB $\mu$ V between 0.15MHz & 0.5MHz

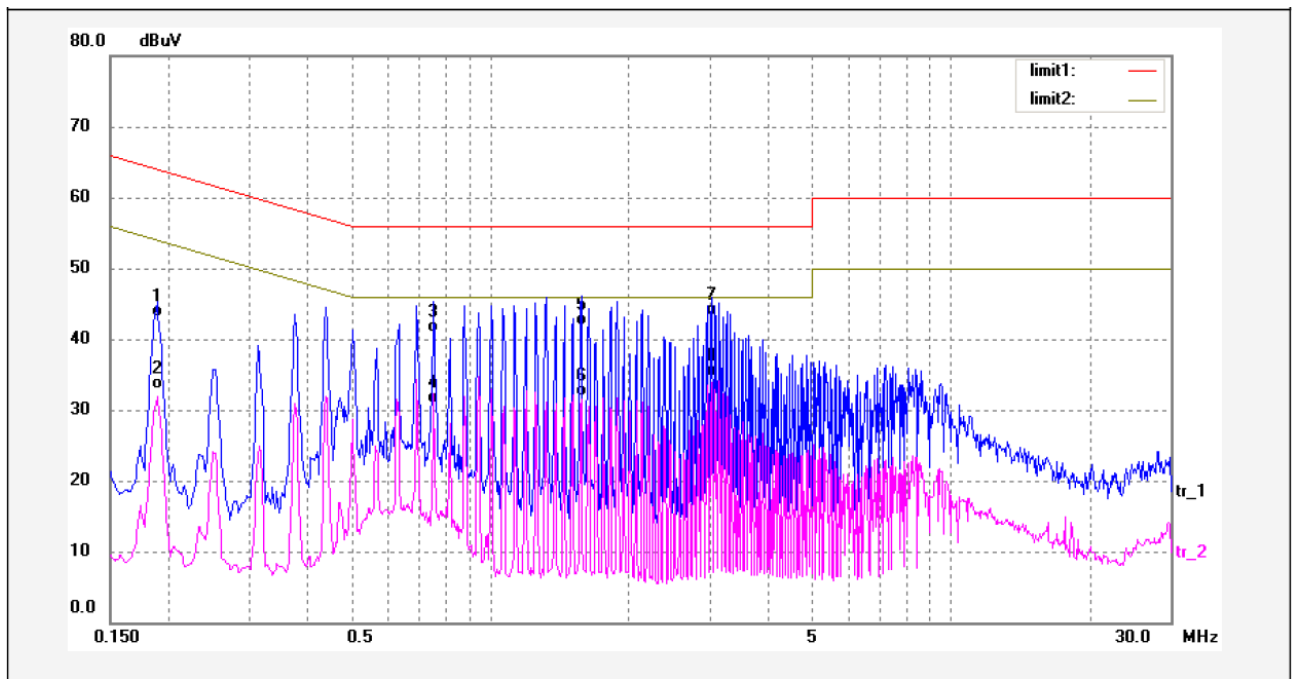
56 dB $\mu$ V between 0.5MHz & 5MHz

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

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

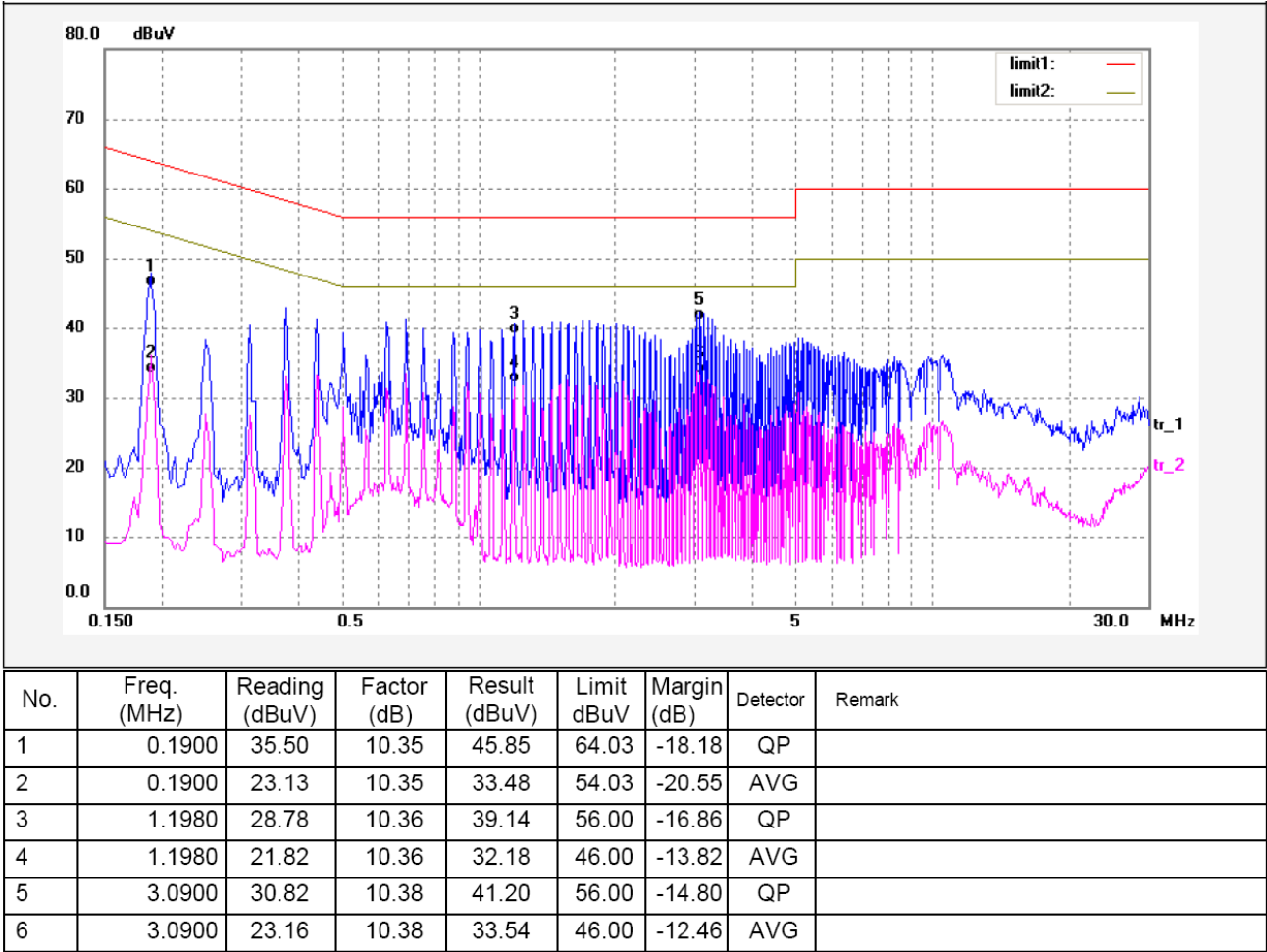
### 5.6 Conducted Emission Test Data

Live Line



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Margin (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|------------|-------------|----------|--------|
| 1   | 0.1900      | 32.79          | 10.35       | 43.14         | 64.03      | -20.89      | QP       |        |
| 2   | 0.1900      | 22.51          | 10.35       | 32.86         | 54.03      | -21.17      | AVG      |        |
| 3   | 0.7580      | 30.58          | 10.36       | 40.94         | 56.00      | -15.06      | QP       |        |
| 4   | 0.7580      | 20.52          | 10.36       | 30.88         | 46.00      | -15.12      | AVG      |        |
| 5   | 1.5780      | 31.53          | 10.37       | 41.90         | 56.00      | -14.10      | QP       |        |
| 6   | 1.5780      | 21.44          | 10.37       | 31.81         | 46.00      | -14.19      | AVG      |        |
| 7   | 3.0260      | 32.94          | 10.38       | 43.32         | 56.00      | -12.68      | QP       |        |
| 8   | 3.0260      | 24.36          | 10.38       | 34.74         | 46.00      | -11.26      | AVG      |        |

Neutral Line



### 5.7 Conducted Emission Test SetUp View.



## 6 Radiation Emission Test

|                       |                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| Test Requirement:     | FCC Part15 Paragraph 15.247                                                                         |
| Test Method:          | Based on ANSI 63.4:2003                                                                             |
| Test Date:            | Sep.22,2009                                                                                         |
| 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 |

### 6.1 Test Equipment

Please refer to Section 5 this report.

### 6.2 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.

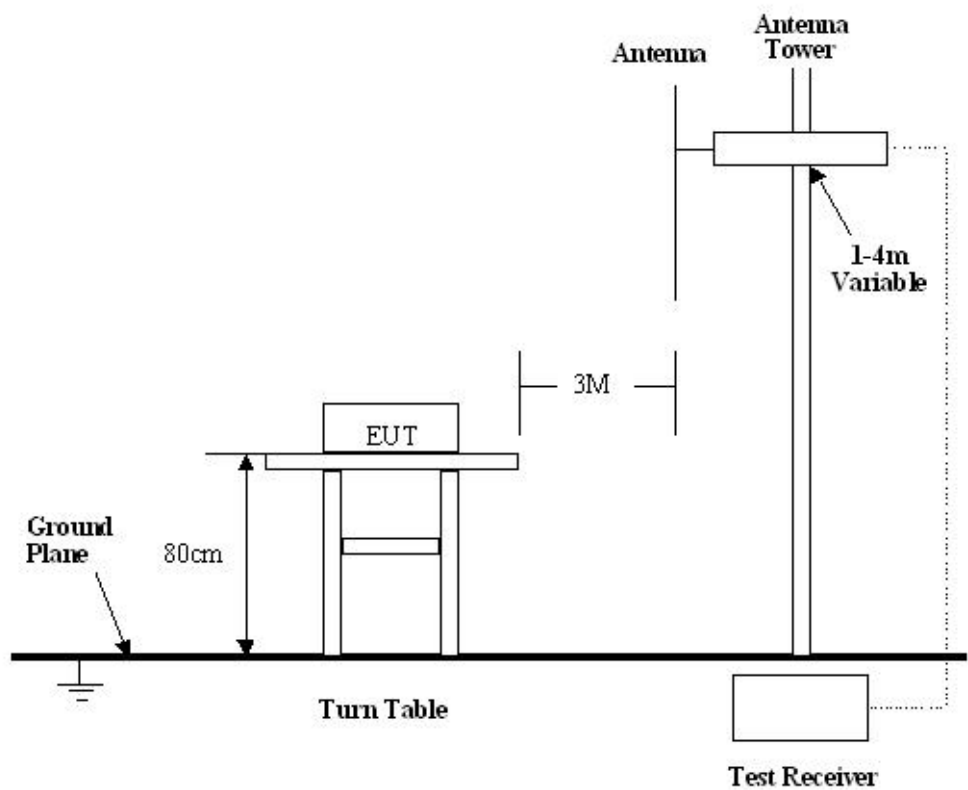
Based on ANSI C63.4:2003, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at WALTEK SERVICES EMC Lab is +/-5.03 dB.

### 6.3 Test Procedure

1. the WII was used in the equipment under test for radiated emissions test.
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 and average detection mode.
4. The EUT was under working mode during the final qualification test and the configuration was used to represent the worst case results.

6.4Radiated Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Paragraph 15.209 limits and Paragraph 15.247 limits.



6.5 Spectrum Analyzer Setup

According to FCC Part15 Paragraph 15.247 Rules, the system was tested to 25000 MHz. Below 1GHz

|                                    |          |
|------------------------------------|----------|
| Start Frequency .....              | 30 MHz   |
| Stop Frequency .....               | 1000 MHz |
| Sweep Speed                        | Auto     |
| IF Bandwidth.....                  | 120 kHz  |
| Video Bandwidth.....               | 100KHz   |
| Quasi-Peak Adapter Bandwidth ..... | 120 kHz  |
| Quasi-Peak Adapter Mode.....       | Normal   |
| Resolution Bandwidth .....         | 100KHz   |



Above 1GHz

|                                    |          |
|------------------------------------|----------|
| Start Frequency .....              | 1000 MHz |
| Stop Frequency .....               | 25000MHz |
| Sweep Speed                        | Auto     |
| IF Bandwidth.....                  | 120 kHz  |
| Video Bandwidth .....              | 1MHz     |
| Quasi-Peak Adapter Bandwidth ..... | 120 kHz  |
| Quasi-Peak Adapter Mode.....       | Normal   |
| Resolution Bandwidth .....         | 1MHz     |

6.6Corrected 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

6.7 Summary of Test Results

According to the data in section 7.11, the EUT complied with the FCC Part15 Paragraph 15.247 standards.

## 6.8 EUT Operating Condition

The same as section 6.4 of this report.

Let the EUT work in test mode and test it.

## 6.9 Radiated Emissions 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.
  - (4) 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.
  - (5) Above 1GHz, make 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.

### 6.10 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/m)  
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:

Freq(MHz) Meter Reading +ACF=FS

33            20dBuV+10.36dB=30.36dBuV/m @3m

### 6.11 Radiated Emission Data

A. Test Item: Radiated Emission Data  
Test Voltage: Battery input 3.0V  
Test Mode: TX On  
Temperature: 24 °C  
Humidity: 52%RH  
Test Result: PASS

Remarks: 30-1000MHz radiation test no significant emissions above the equipment noise floor were detected.

And the below is the Fundamental and Harmonic .

| Frequency (MHz) | Detect or | Antenna Polarization | Emission Level (dBuV/m) | FCC Part15 Subpart C Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Turntable Angle (°) |
|-----------------|-----------|----------------------|-------------------------|-------------------------------------|-------------|--------------------|---------------------|
| Low frequency   |           |                      |                         |                                     |             |                    |                     |
| 2402            | AV        | Vertical             | 82.11                   |                                     | (Fund.)     | 1.2                | 0                   |
| 4804            | AV        | Vertical             | 44.54                   | 54                                  | 9.46        | 1.2                | 90                  |
| 7206            | AV        | Vertical             | 41.47                   | 54                                  | 12.53       | 1.1                | 120                 |
| 9608            | AV        | Vertical             | 41.35                   | 54                                  | 12.65       | 1.2                | 60                  |
| 12010           | AV        | Vertical             | 40.59                   | 54                                  | 13.41       | 1.5                | 45                  |
| 14412           | AV        | Vertical             | 39.92                   | 54                                  | 14.08       | 1.0                | 120                 |
| 16814           | AV        | Vertical             | 40.57                   | 54                                  | 13.43       | 1.4                | 180                 |
| 19216           | AV        | Vertical             | 38.61                   | 54                                  | 15.39       | 1.4                | 120                 |
| 21618           | AV        | Vertical             | 39.21                   | 54                                  | 14.79       | 1.1                | 90                  |
| 24020           | AV        | Vertical             | 39.49                   | 54                                  | 14.51       | 1.2                | 60                  |

|                  |    |            |       |    |         |     |     |
|------------------|----|------------|-------|----|---------|-----|-----|
| 2402             | AV | Horizontal | 85.01 |    | (Fund.) | 1.2 | 10  |
| 4804             | AV | Horizontal | 38.55 | 54 | 15.45   | 1.1 | 120 |
| 7206             | AV | Horizontal | 35.87 | 54 | 18.13   | 1.2 | 120 |
| 9608             | AV | Horizontal | 37.87 | 54 | 16.13   | 1.0 | 90  |
| 12010            | AV | Horizontal | 37.07 | 54 | 16.93   | 1.1 | 60  |
| 14412            | AV | Horizontal | 35.92 | 54 | 18.08   | 1.1 | 120 |
| 16814            | AV | Horizontal | 36.92 | 54 | 17.08   | 1.5 | 100 |
| 19216            | AV | Horizontal | 36.49 | 54 | 17.51   | 1.5 | 45  |
| 21618            | AV | Horizontal | 34.6  | 54 | 19.4    | 1.4 | 60  |
| 24020            | AV | Horizontal | 31.79 | 54 | 22.21   | 1.1 | 180 |
| 2402             | PK | Vertical   | 98.35 |    | (Fund.) | 1.5 | 110 |
| 4804             | PK | Vertical   | 51.21 | 74 | 22.79   | 1.2 | 45  |
| 7206             | PK | Vertical   | 48.24 | 74 | 25.76   | 1.5 | 60  |
| 9608             | PK | Vertical   | 49.12 | 74 | 24.88   | 1.0 | 90  |
| 12010            | PK | Vertical   | 48.36 | 74 | 25.64   | 1.0 | 180 |
| 14412            | PK | Vertical   | 47.69 | 74 | 26.31   | 1.1 | 120 |
| 16814            | PK | Vertical   | 48.34 | 74 | 25.66   | 1.2 | 120 |
| 19216            | PK | Vertical   | 46.38 | 74 | 27.62   | 1.1 | 90  |
| 21618            | PK | Vertical   | 46.98 | 74 | 27.02   | 1.1 | 60  |
| 24020            | PK | Vertical   | 47.26 | 74 | 26.74   | 1.5 | 100 |
| 2402             | PK | Horizontal | 94.32 |    | (Fund.) | 1.8 | 100 |
| 4804             | PK | Horizontal | 46.32 | 74 | 27.68   | 1.4 | 60  |
| 7206             | PK | Horizontal | 43.64 | 74 | 30.36   | 1.2 | 100 |
| 9608             | PK | Horizontal | 45.64 | 74 | 28.36   | 1.4 | 180 |
| 12010            | PK | Horizontal | 44.84 | 74 | 29.16   | 1.1 | 120 |
| 14412            | PK | Horizontal | 43.69 | 74 | 30.31   | 1.2 | 90  |
| 16814            | PK | Horizontal | 44.69 | 74 | 29.31   | 1.1 | 60  |
| 19216            | PK | Horizontal | 44.26 | 74 | 29.74   | 1.2 | 180 |
| 21618            | PK | Horizontal | 42.37 | 74 | 31.63   | 1.5 | 90  |
| 24020            | PK | Horizontal | 39.56 | 74 | 34.44   | 1.0 | 90  |
| Middle frequency |    |            |       |    |         |     |     |
| 2434             | AV | Vertical   | 85.21 |    | (Fund.) | 1.5 | 10  |
| 4868             | AV | Vertical   | 44.54 | 54 | 9.46    | 1.2 | 90  |
| 7302             | AV | Vertical   | 41.47 | 54 | 12.53   | 1.1 | 120 |

|       |    |            |       |    |         |     |     |
|-------|----|------------|-------|----|---------|-----|-----|
| 9736  | AV | Vertical   | 41.35 | 54 | 12.65   | 1.2 | 60  |
| 12170 | AV | Vertical   | 40.59 | 54 | 13.41   | 1.5 | 45  |
| 14604 | AV | Vertical   | 39.92 | 54 | 14.08   | 1.0 | 120 |
| 17038 | AV | Vertical   | 40.57 | 54 | 13.43   | 1.4 | 180 |
| 19472 | AV | Vertical   | 38.61 | 54 | 15.39   | 1.4 | 120 |
| 21906 | AV | Vertical   | 39.21 | 54 | 14.79   | 1.1 | 90  |
| 24340 | AV | Vertical   | 39.49 | 54 | 14.51   | 1.2 | 60  |
| 2434  | AV | Horizontal | 85.58 |    | (Fund.) | 1.0 | 120 |
| 4868  | AV | Horizontal | 38.55 | 54 | 15.45   | 1.1 | 120 |
| 7302  | AV | Horizontal | 35.87 | 54 | 18.13   | 1.2 | 120 |
| 9736  | AV | Horizontal | 37.87 | 54 | 16.13   | 1.0 | 90  |
| 12170 | AV | Horizontal | 37.07 | 54 | 16.93   | 1.1 | 60  |
| 14604 | AV | Horizontal | 35.92 | 54 | 18.08   | 1.1 | 120 |
| 17038 | AV | Horizontal | 36.92 | 54 | 17.08   | 1.5 | 100 |
| 19472 | AV | Horizontal | 36.49 | 54 | 17.51   | 1.5 | 45  |
| 21906 | AV | Horizontal | 34.6  | 54 | 19.4    | 1.4 | 60  |
| 24340 | AV | Horizontal | 31.79 | 54 | 22.21   | 1.1 | 180 |
| 2434  | PK | Vertical   | 99.98 |    | (Fund.) | 1.0 | 10  |
| 4868  | PK | Vertical   | 52.31 | 74 | 21.69   | 1.2 | 45  |
| 7302  | PK | Vertical   | 49.24 | 74 | 24.76   | 1.5 | 60  |
| 9736  | PK | Vertical   | 49.12 | 74 | 24.88   | 1.0 | 90  |
| 12170 | PK | Vertical   | 48.36 | 74 | 25.64   | 1.0 | 180 |
| 14604 | PK | Vertical   | 47.69 | 74 | 26.31   | 1.1 | 120 |
| 17038 | PK | Vertical   | 48.34 | 74 | 25.66   | 1.2 | 120 |
| 19472 | PK | Vertical   | 46.38 | 74 | 27.62   | 1.1 | 90  |
| 21906 | PK | Vertical   | 46.98 | 74 | 27.02   | 1.1 | 60  |
| 24340 | PK | Vertical   | 47.26 | 74 | 26.74   | 1.5 | 100 |
| 2434  | PK | Horizontal | 96.45 |    | (Fund.) | 1.0 | 10  |
| 4868  | PK | Horizontal | 46.32 | 74 | 27.68   | 1.4 | 60  |
| 7302  | PK | Horizontal | 43.64 | 74 | 30.36   | 1.2 | 100 |
| 9736  | PK | Horizontal | 45.64 | 74 | 28.36   | 1.4 | 180 |
| 12170 | PK | Horizontal | 44.84 | 74 | 29.16   | 1.1 | 120 |
| 14604 | PK | Horizontal | 43.69 | 74 | 30.31   | 1.2 | 90  |
| 17038 | PK | Horizontal | 44.69 | 74 | 29.31   | 1.1 | 60  |

|                |    |            |       |    |         |     |     |
|----------------|----|------------|-------|----|---------|-----|-----|
| 19472          | PK | Horizontal | 44.26 | 74 | 29.74   | 1.2 | 180 |
| 21906          | PK | Horizontal | 42.37 | 74 | 31.63   | 1.5 | 90  |
| 24340          | PK | Horizontal | 39.56 | 74 | 34.44   | 1.0 | 90  |
| High frequency |    |            |       |    |         |     |     |
| 2466           | AV | Vertical   | 88.78 |    | (Fund.) | 1.0 | 10  |
| 4932           | AV | Vertical   | 43.26 | 54 | 10.74   | 1.2 | 90  |
| 7398           | AV | Vertical   | 42.37 | 54 | 11.63   | 1.1 | 180 |
| 9864           | AV | Vertical   | 42.57 | 54 | 11.43   | 1.2 | 180 |
| 12330          | AV | Vertical   | 42.12 | 54 | 11.88   | 1.5 | 120 |
| 14796          | AV | Vertical   | 41.86 | 54 | 12.14   | 1.0 | 100 |
| 17262          | AV | Vertical   | 41.91 | 54 | 12.09   | 1.4 | 60  |
| 19728          | AV | Vertical   | 40.21 | 54 | 13.79   | 1.5 | 90  |
| 22194          | AV | Vertical   | 40.82 | 54 | 13.18   | 1.0 | 120 |
| 24660          | AV | Vertical   | 39.59 | 54 | 14.41   | 1.4 | 180 |
| 2466           | AV | Horizontal | 85.32 |    | (Fund.) | 1.0 | 0   |
| 4932           | AV | Horizontal | 39.21 | 54 | 14.79   | 1.1 | 120 |
| 7398           | AV | Horizontal | 38.71 | 54 | 15.29   | 1.2 | 60  |
| 9864           | AV | Horizontal | 38.59 | 54 | 15.41   | 1.2 | 90  |
| 12330          | AV | Horizontal | 37.87 | 54 | 16.13   | 1.1 | 45  |
| 14796          | AV | Horizontal | 40.08 | 54 | 13.92   | 1.5 | 60  |
| 17262          | AV | Horizontal | 37.88 | 54 | 16.12   | 1.0 | 120 |
| 19728          | AV | Horizontal | 35.92 | 54 | 18.08   | 1.4 | 180 |
| 22194          | AV | Horizontal | 35.49 | 54 | 18.51   | 1.4 | 100 |
| 24660          | AV | Horizontal | 33.48 | 54 | 20.52   | 1.1 | 90  |
| 2466           | PK | Vertical   | 98.02 |    | (Fund.) | 1.0 | 60  |
| 4932           | PK | Vertical   | 51.21 | 74 | 22.79   | 1.2 | 180 |
| 7398           | PK | Vertical   | 50.14 | 74 | 23.86   | 1.5 | 90  |
| 9864           | PK | Vertical   | 50.34 | 74 | 23.66   | 1.0 | 45  |
| 12330          | PK | Vertical   | 49.89 | 74 | 24.11   | 1.4 | 45  |
| 14796          | PK | Vertical   | 49.63 | 74 | 24.37   | 1.2 | 60  |
| 17262          | PK | Vertical   | 49.68 | 74 | 24.32   | 1.5 | 120 |
| 19728          | PK | Vertical   | 47.98 | 74 | 26.02   | 1.0 | 180 |
| 22194          | PK | Vertical   | 48.59 | 74 | 25.41   | 1.4 | 90  |
| 24660          | PK | Vertical   | 47.36 | 74 | 26.64   | 1.1 | 45  |

|       |    |            |       |    |         |     |     |
|-------|----|------------|-------|----|---------|-----|-----|
| 2466  | PK | Horizontal | 93.24 |    | (Fund.) | 1.0 | 20  |
| 4932  | PK | Horizontal | 46.98 | 74 | 27. 02  | 1.2 | 0   |
| 7398  | PK | Horizontal | 46.48 | 74 | 27. 52  | 1.1 | 90  |
| 9864  | PK | Horizontal | 46.36 | 74 | 27. 64  | 1.2 | 120 |
| 12330 | PK | Horizontal | 45.64 | 74 | 28. 36  | 1.5 | 90  |
| 14796 | PK | Horizontal | 47.85 | 74 | 26. 15  | 1.0 | 60  |
| 17262 | PK | Horizontal | 45.65 | 74 | 28. 35  | 1.4 | 0   |
| 19728 | PK | Horizontal | 43.69 | 74 | 30. 31  | 1.1 | 120 |
| 22194 | PK | Horizontal | 43.26 | 74 | 30. 74  | 1.2 | 0   |
| 24660 | PK | Horizontal | 41.25 | 74 | 32. 75  | 1.1 | 90  |

## 7 Maximum Peak Output Power

|                   |                                                                                   |
|-------------------|-----------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 Paragraph 15.247                                                       |
| Test Method:      | Based on ANSI 63.4:2003                                                           |
| Test Date:        | Sep.22,2009                                                                       |
| Test mode:        | Compliance test in the worse case: Tx Lower/Tx Middle/Tx Upper                    |
| Requirements:     | Regulation 15.247(b) The limit of Maximum Peak Output Power Measurement is 0.125W |

### Test procedure:

The following test procedure as below:

The transmitter output (antenna port) was connected to the spectrum analyzer.EUT and its simulators are placed on a table, let EUT working in test mode,then test it.

The bandwidth of the fundamental frequency was measured with the spectrum analyser using 1MHz RBW and 1MHz VBW.

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

| Test Channel | Fundamental Frequency(MHz) | Output Power (mW) | Limit (W) | Power output level |
|--------------|----------------------------|-------------------|-----------|--------------------|
| Lower        | 2402                       | 1.41              | 0.125     | conducted          |
| Middle       | 2434                       | 1.32              | 0.125     | conducted          |
| Upper        | 2466                       | 1.32              | 0.125     | conducted          |

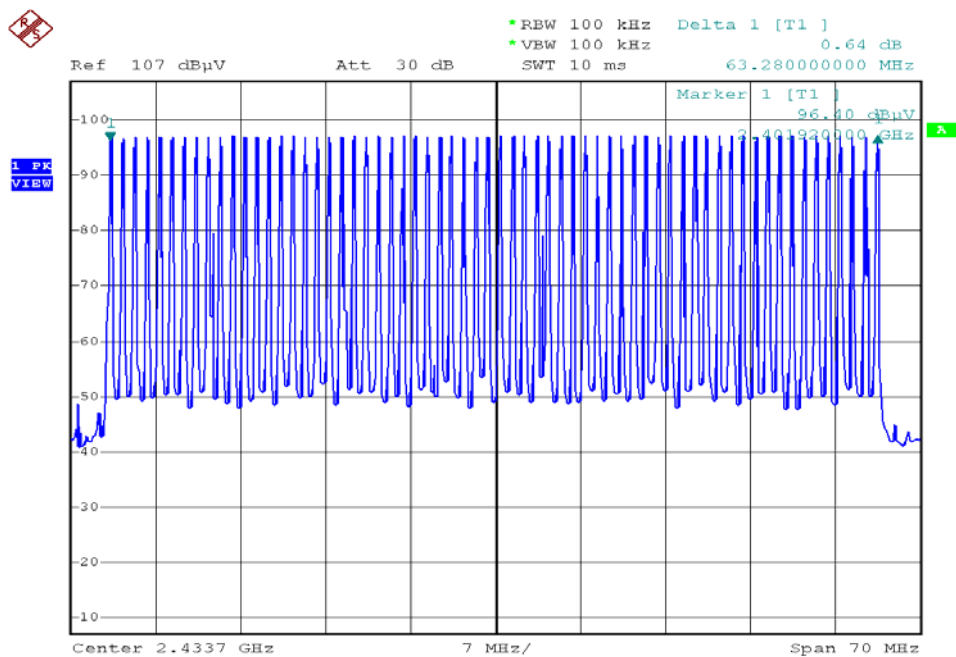
**Note:** The EUT uses 65 channels ,and according to 47 CFR Part 15 Subpart C Section 15.247 (b),the the maximum allowable power for this device is 0.125W.



8 Hopping Channel Number

Test Requirement: FCC Part15 C  
Test Method: Based on FCC Part15 Paragraph 15.247  
Test Date: Sep. 22, 2009  
Test mode: The EUT work in test mode(Tx) and test it  
Requirements: Regulation 15.247(b) For frequency hopping systems operating  
In the 2400-2483.5MHz band employing at least 15 hopping  
channels.  
Test result: The total number of channels would be 65 channels.  
The unit does meet the FCC requirements.

Please refer the graph as below:



## 9 Frequency Separated

The requirements in this clause are only applicable to equipment using frequency hopping spread spectrum (FHSS) modulation.

### Channel Separated

Definition: A hopping channel is any of the centre frequencies defined within the hopping sequence of a FHSS system.

Limit: Non-adaptive frequency hopping system shall make use of non-overlapping channels separated by the channel bandwidth as measured at 20dB below peak power.

The hopping channels defined within a hopping sequence shall be at least 1MHz apart(channel separation)

Operating Environment:

Temperature: 25.50 °C

Humidity: 51 % RH

Barometric Pressure: 1012 mbar

EUT Operation Condition:

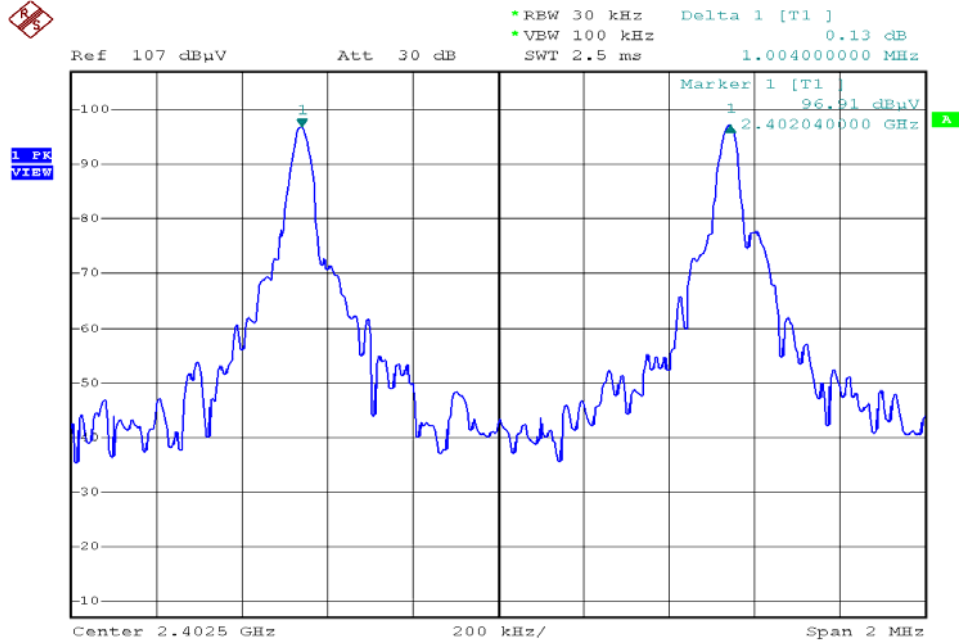
The EUT was programmed to be in continuously transmitting mode.

Test Result: PASS

| Test Channel    | Channel Separation | PASS/FAIL |
|-----------------|--------------------|-----------|
| Lower Channels  | 1MHz               | Pass      |
| Middle Channels | 1MHz               | Pass      |
| Upper Channels  | 1MHz               | Pass      |

Please refer to the below photos for more details

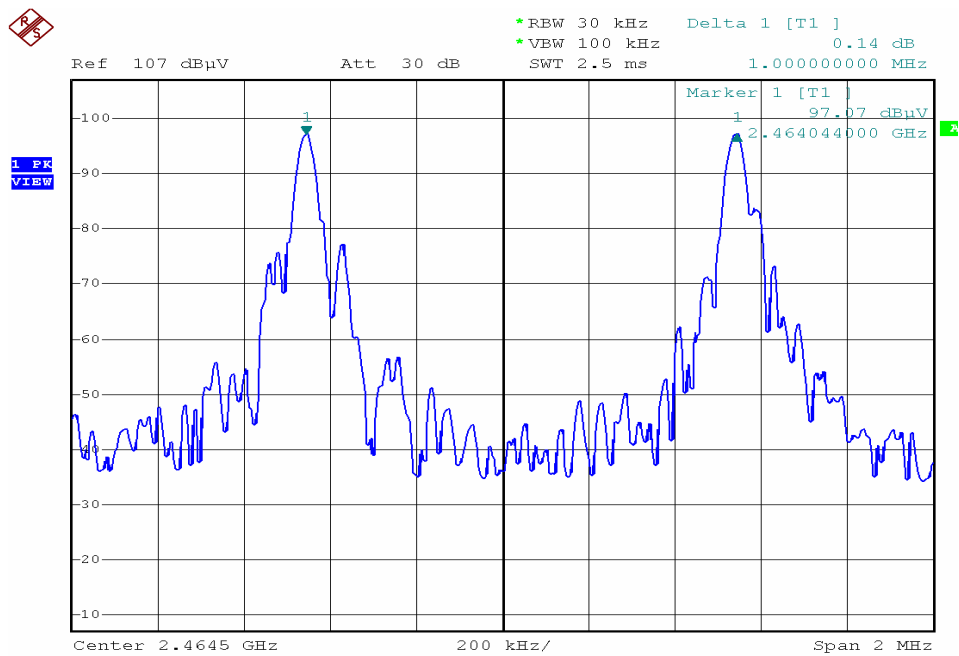
Lower Channel



Middle Channel



Upper Channel



## 10 Dwell time

The dwell time is the time spent at a particular frequency during any single hop.

Limit: the maximum dwell time shall be less than 0.4s.

Operating Environment:

Temperature: 25.5 °C

Humidity: 51 % RH

Barometric Pressure: 1012 mbar

EUT Operation Condition:

The EUT was programmed to be in continuously transmitting mode.

### 11.2 Test Procedure

The EUT output antenna port was connected to the spectrum analyzer. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz, and the frequency span to zero span, measure the maximum time duration of one single pulse. So, the Dwell Time can be calculated as follows:

$$T = T_{\text{on-time}} * N_{\text{times}} / 1S * 0.4 * 65 \leq 0.4S.$$

### 11.3 Test Result: PASS

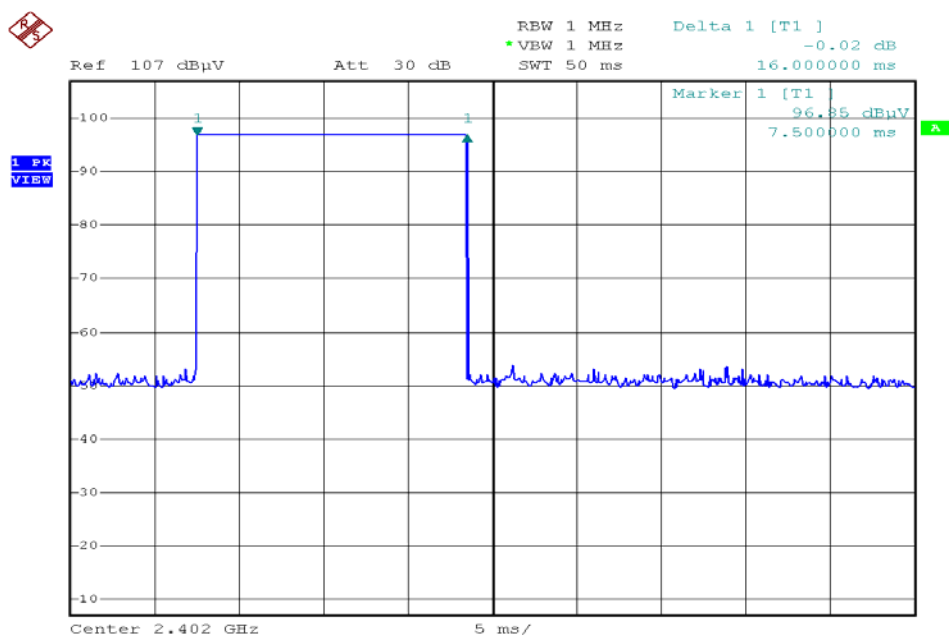
Please refer to the below photos for more details.

Channel 2402MHz

Dwell time of each occupation in this channel as follows:  
 $0.00016 \times 80 / 15 \times 0.4 \times 65 = 0.3328 < 0.4S$

Test Result: PASS

The Results are not be greater than 0.4 seconds.

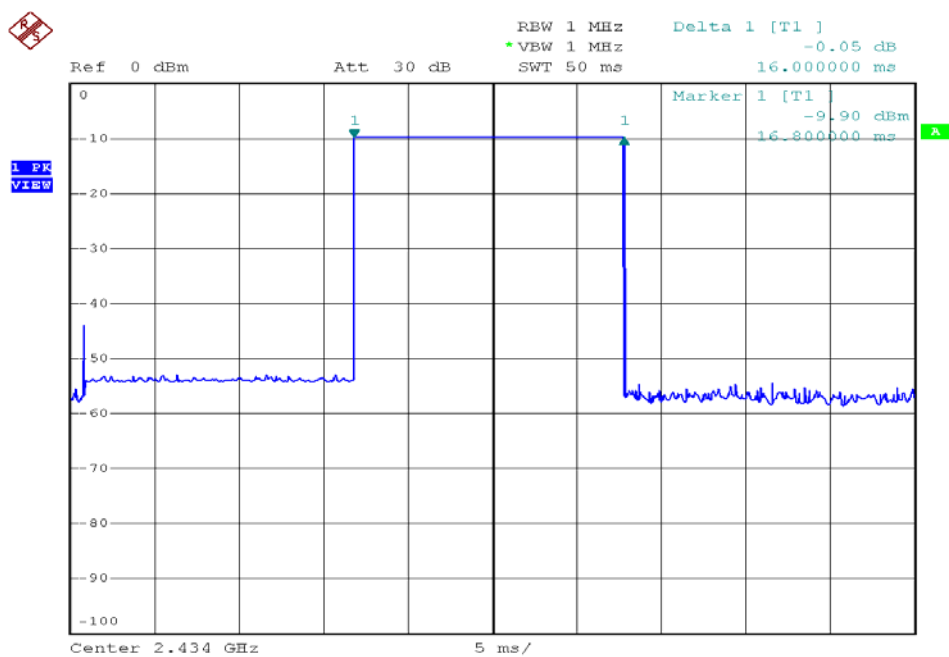


Channel 2434MHz

Dwell time of each occupation in this channel as follows:  
 $0.00016 \times 80 / 1 \times 0.4 \times 65 = 0.3328 < 0.4 \text{S}$

Test Result: PASS

The Results are not be greater than 0.4 seconds.

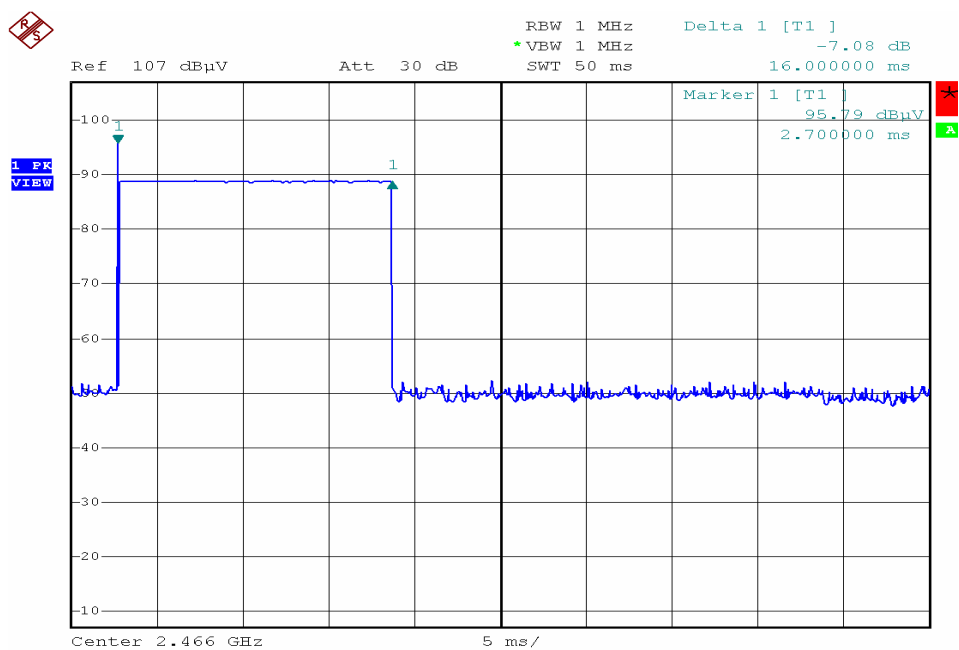


Channel 2466MHz

Dwell time of each occupation in this channel as follows:  
 $0.00016 \times 80 / 1 \times 0.4 \times 65 = 0.3328 < 0.4 \text{S}$

Test Result: PASS

The Results are not be greater than 0.4 seconds.





## 11 20-dB Bandwidth

Test Requirement: FCC Part15 C  
Test Method: Based on FCC Part15 Paragraph 15.247  
Test Date: Sep. 22, 2009  
Test mode: The EUT work in test mode(Tx) and test it

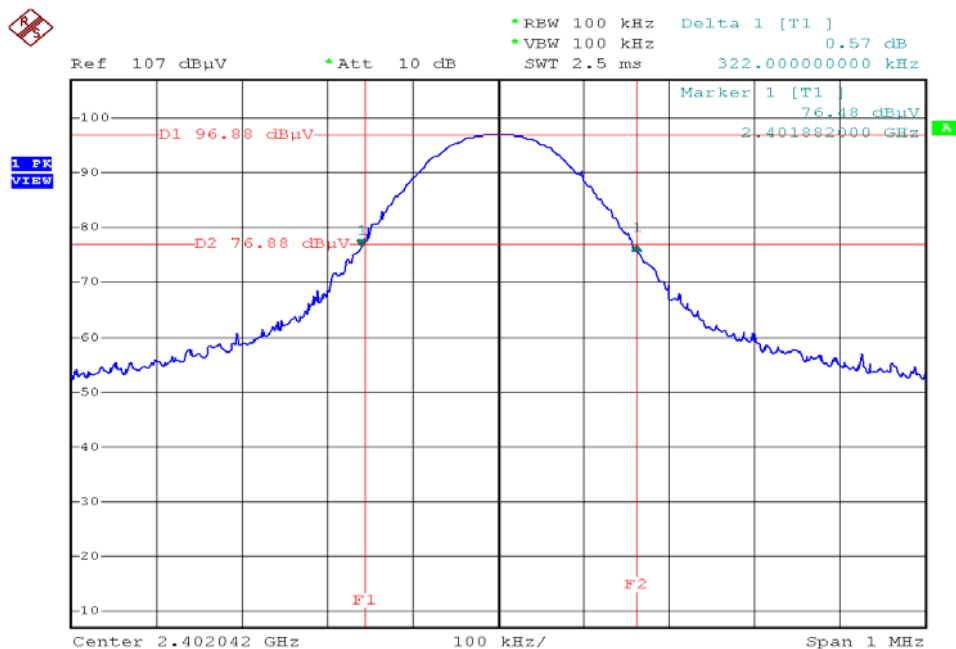
### Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. 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.

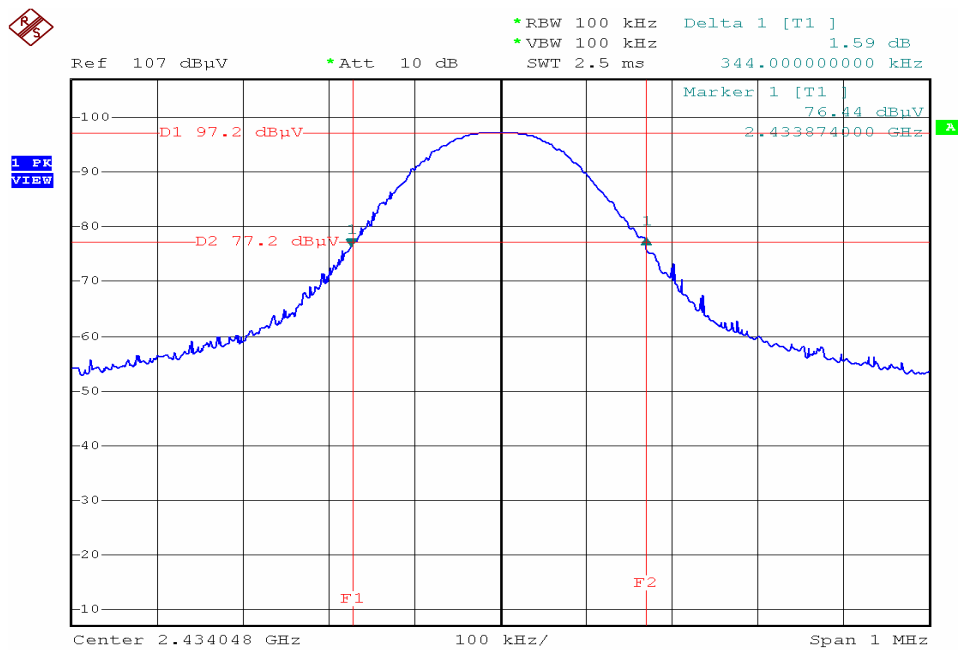
### Test Result

Please refer the graph as below:

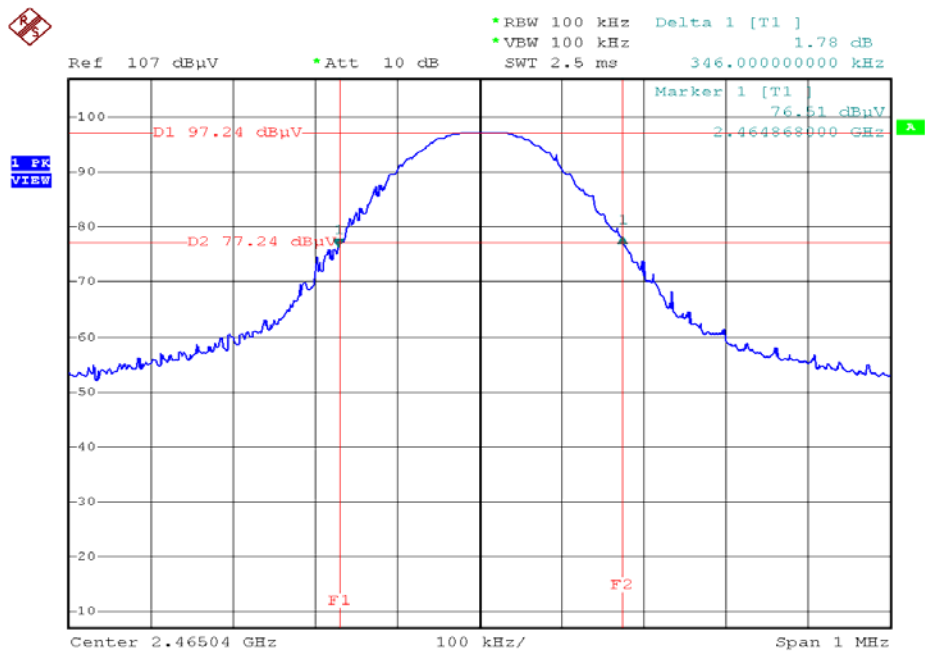
#### Lower Channel 2402MHz



Middle Channel 2434MHz



Upper Channel 2466MHz



## 12 Radiated spurious emissions into adjacent restricted band

Test Requirement: FCC Part15 Paragraph 15.205  
Test Method: Based on FCC Part 15 Paragraph 15.247  
Test Date: Sep. 22, 2009  
Requirements: The EUT work in test mode(Tx) and test it

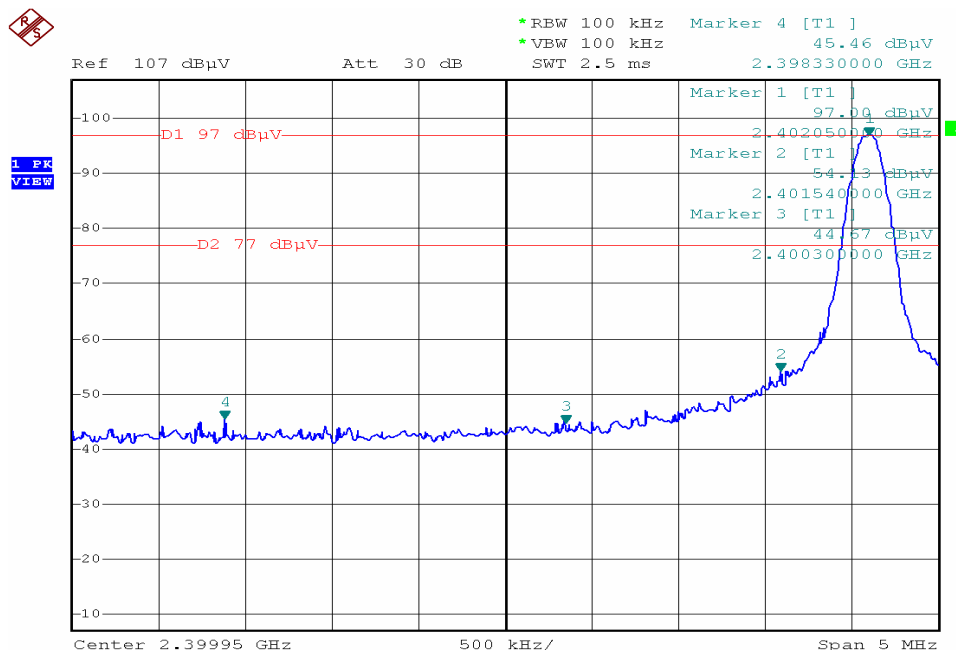
### Requiments:

emissions that fall in the restricted bands(15.205).Above 1000MHz, compliance with the emissions limits in section 15.209 shall be demonstrated based on the peak value of the measured emissions,The provisions in section 15.35 apply to these measurements.

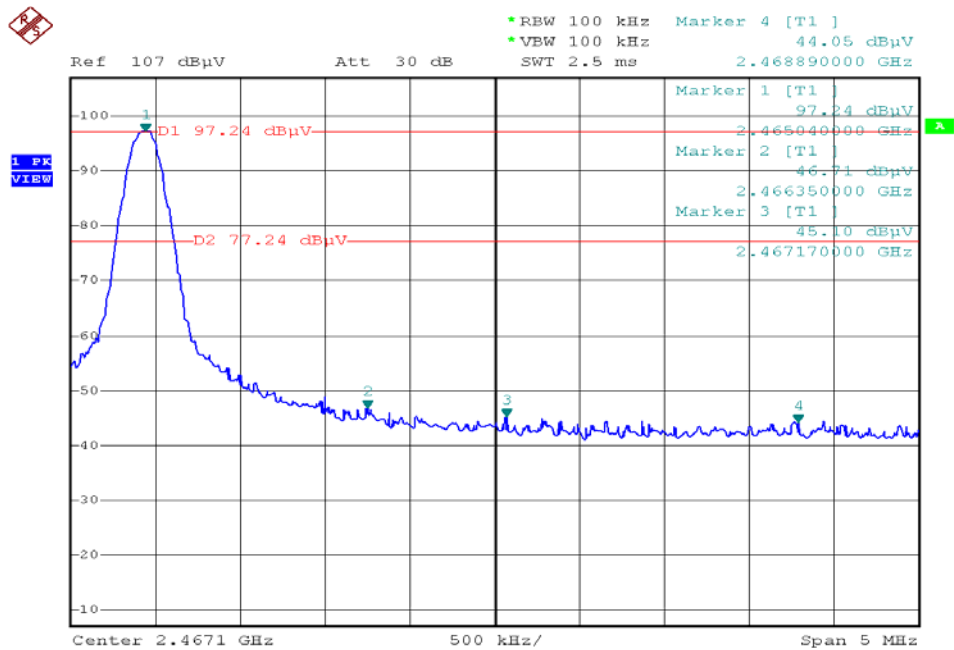
### Test procedure:

An in band field strength measurement of the fundamental emission using the RBW and detector function required by C63.4-2003 and FCC Rules.The procedure was repeated with an average detector and a plot made.The calculated field strength in the adjacent restricted band is presented below.

### Lower bandedge/ restricted band (Peak Value)



Upper Bandedge/ Restricted Band (Peak Value)



### 13 RF Exposure Test

|                   |                                           |
|-------------------|-------------------------------------------|
| Test Requirement: | FCC Part 2 Subpart J                      |
| Test Method:      | Based on FCC Part 15 Paragraph 15.247     |
| Test Date:        | Sep. 22, 2009                             |
| Requirements:     | The EUT work in test mode(Tx) and test it |

#### Requiments:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

#### The procedures / limit

##### (A) Limits for Occupational / Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|------------------------------------------|------------------------------------------------------------------|
| 0.3-3.0               | 614                               | 1.63                              | (100)*                                   | 6                                                                |
| 3.0-30                | 1842 / f                          | 4.89 / f                          | (900 / f)*                               | 6                                                                |
| 30-300                | 61.4                              | 0.163                             | 1.0                                      | 6                                                                |
| 300-1500              |                                   |                                   | F/300                                    | 6                                                                |
| 1500-100,000          |                                   |                                   | 5                                        | 6                                                                |

##### (B) Limits for General Population / Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|------------------------------------------|------------------------------------------------------------------|
| 0.3-1.34              | 614                               | 1.63                              | (100)*                                   | 30                                                               |
| 1.34-30               | 824/f                             | 2.19/f                            | (180/f)*                                 | 30                                                               |
| 30-300                | 27.5                              | 0.073                             | 0.2                                      | 30                                                               |
| 300-1500              |                                   |                                   | F/1500                                   | 30                                                               |
| 1500-100,000          |                                   |                                   | 1.0                                      | 30                                                               |

Note: f = frequency in MHz ; \*Plane-wave equivalent power density

**MPE Calculation Method**

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

**E** = Electric field (V/m)

**P** = Peak RF output power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

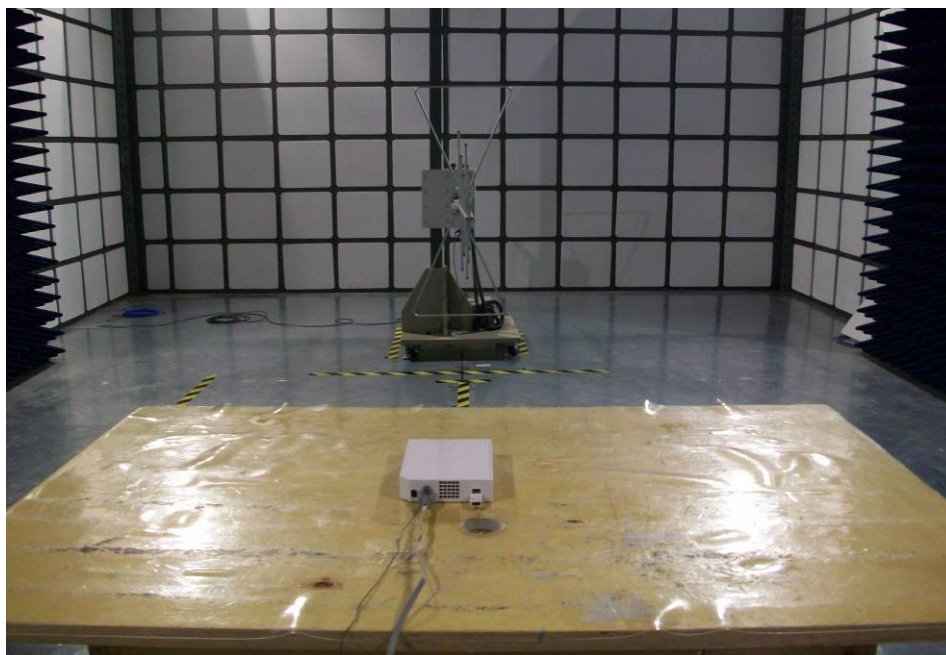
From the peak EUT RF output power, the minimum mobile separation distance,

d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

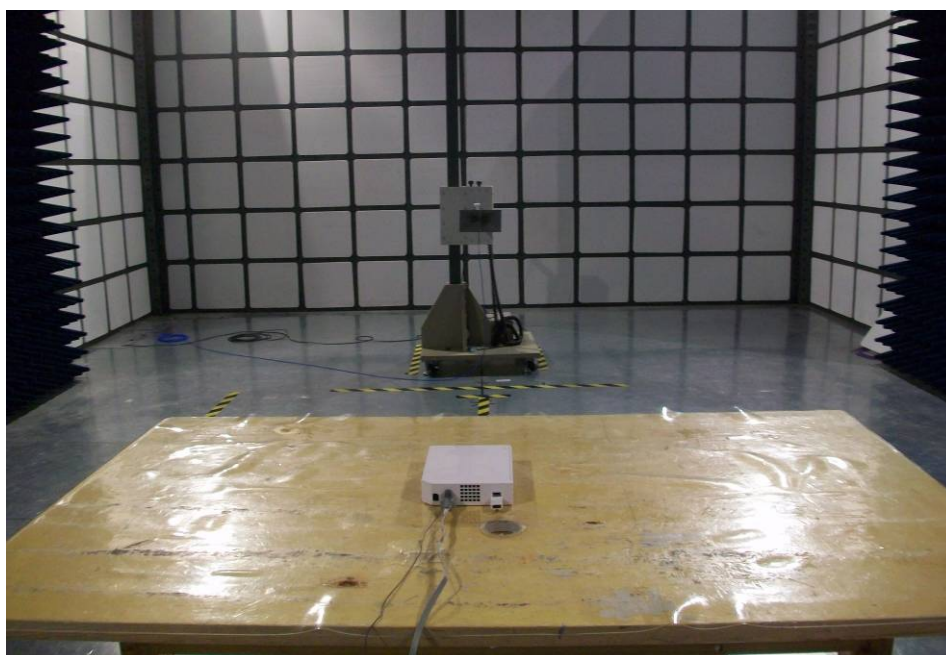
| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| -2.25              | 0.597                  | 1.384                   | 1.41                   | 0.00167                                 | 1                                                | Complies    |
| -2.25              | 0.597                  | 1.355                   | 1.32                   | 0.00157                                 | 1                                                | Complies    |
| -2.25              | 0.597                  | 1.355                   | 1.32                   | 0.00157                                 | 1                                                | Complies    |

## 14 Photographs of Testing

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



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



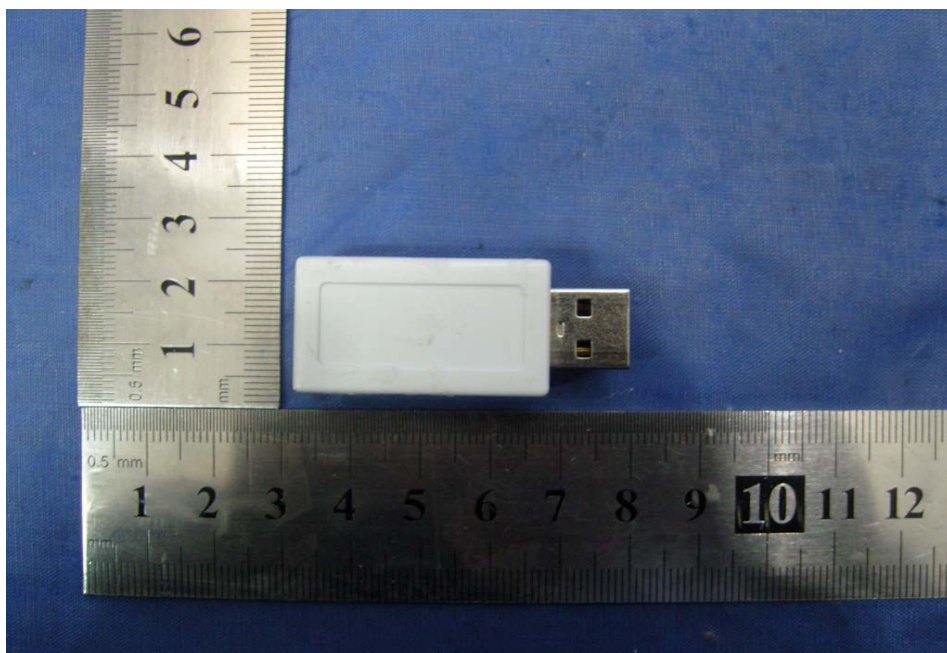


## 15 Photographs - Constructional Details

### 15.1 EUT - Front View

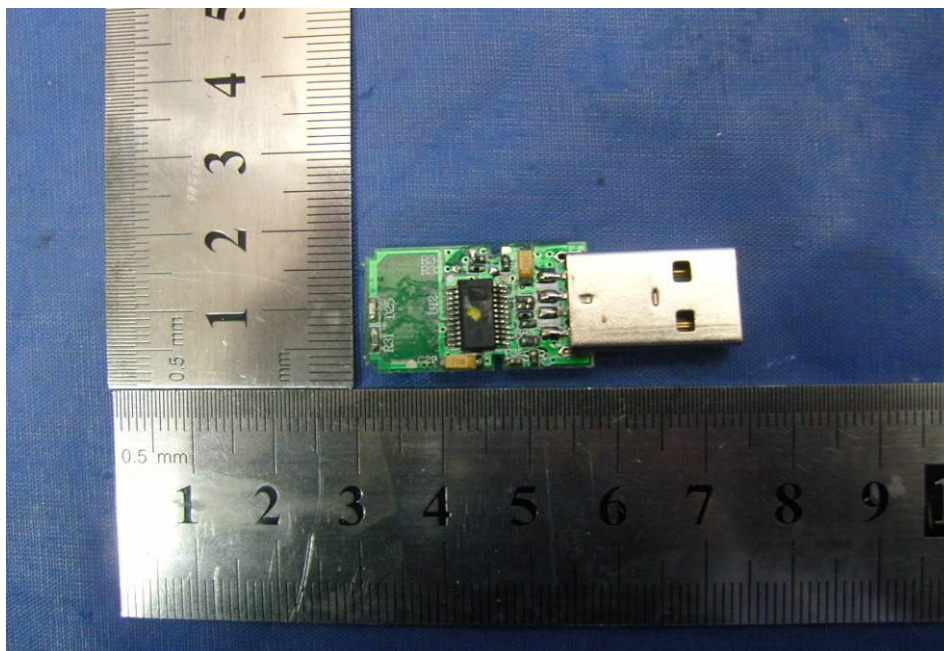


### 15.2 EUT - Back View

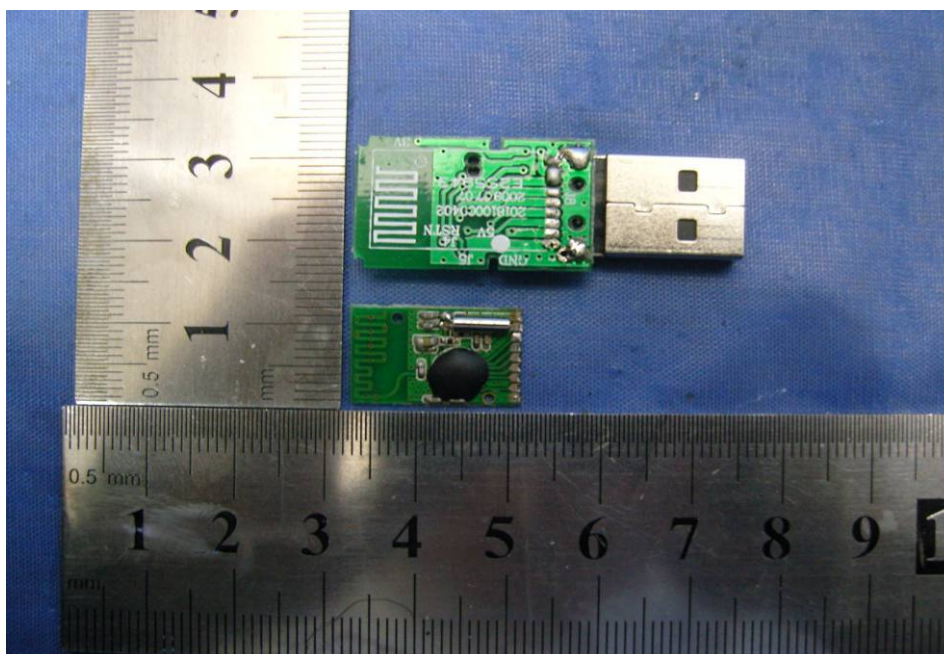




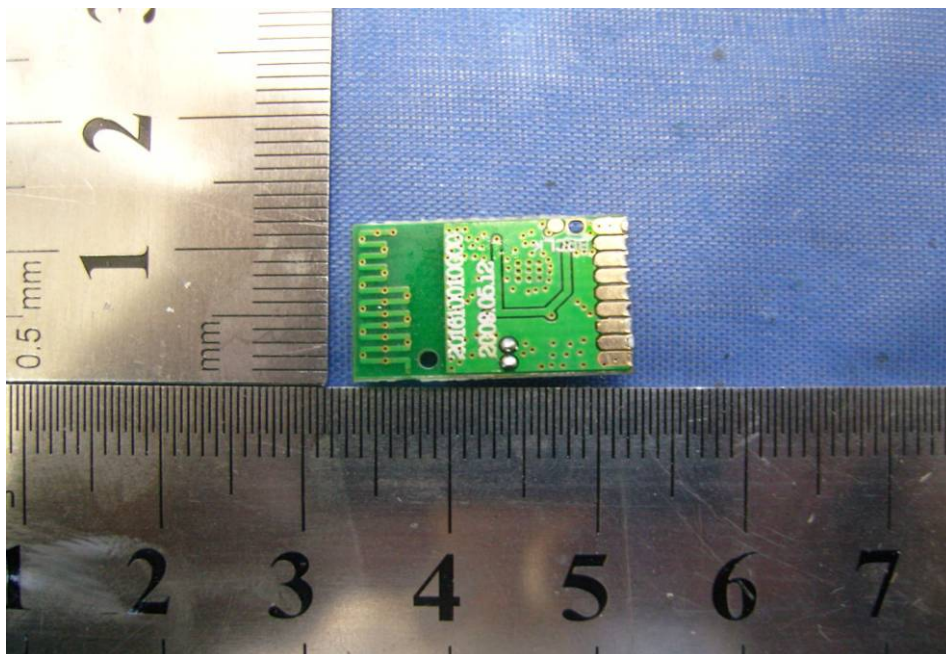
### 15.3 PCB1 - Open View



### 15.4 PCB - Front View



### 15.5 PCB - Back View



## 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

