



## Test Report

Product Name : Wireless digitizer tablet

Model No. : RCK-M01

FCC ID. : RWU-RCKM01

Applicant : Sanford, L.P.

Address : 25 First St. Suite 301 Cambridge, MA 02141, USA

Date of Receipt : 2007/04/03

Issued Date : 2008/11/20

Report No. : 089230R-RFUSP05V01-A

Version : V1.0

The test results relate only to the samples tested.

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

# Test Report Certification

Issued Date : 2008/11/20

Report No. : 089230R-RFUSP05V01-A



Product Name : Wireless digitizer tablet  
 Applicant : Sanford, L.P.  
 Address : 25 First St. Suite 301 Cambridge, MA 02141, USA  
 Manufacturer : Shanghai Hank wireless Co., Ltd  
 Model No. : RCK-M01  
 FCC ID. : RWU-RCKM01  
 Rated Voltage : AC 120 V / 60 Hz  
 EUT Voltage : AC 120 V / 60 Hz  
 Trade Name : mimio  
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2005  
 Test Result : Complied

The test results relate only to the samples tested.

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

Documented By

: *Sandy Chuang*

(Sandy Chuang / Adm. Specialist)

Reviewed By

: *Lucia Lu*

(Lucia Lu / Engineer )

Approved By

: *Roy Wang*

(Roy Wang / Manager )

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## 1. General Information

### 1.1. EUT Description

|                    |                                        |
|--------------------|----------------------------------------|
| Product Name       | Wireless digitizer tablet              |
| Trade Name         | mimio                                  |
| Model No.          | RCK-M01                                |
| Frequency Range    | 2402~2479MHz                           |
| Channel Number     | 78                                     |
| Type of Modulation | Direct Sequence Spread Spectrum (DSSS) |
| Antenna Gain       | -0.51dBi (Tablet)                      |
| Channel Control    | Auto                                   |
| Antenna Type       | Soldered on PCB                        |

|           |                                           |
|-----------|-------------------------------------------|
| Component |                                           |
| USB Cable | Shielded, 1.5m, two ferrite cores bonded. |

| Working Frequency of Each Channel |           |            |           |            |           |            |           |
|-----------------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| Channel                           | Frequency | Channel    | Frequency | Channel    | Frequency | Channel    | Frequency |
| Channel 01                        | 2402 MHz  | Channel 21 | 2422 MHz  | Channel 41 | 2442 MHz  | Channel 61 | 2462 MHz  |
| Channel 02                        | 2403 MHz  | Channel 22 | 2423 MHz  | Channel 42 | 2443 MHz  | Channel 62 | 2463 MHz  |
| Channel 03                        | 2404 MHz  | Channel 23 | 2424 MHz  | Channel 43 | 2444 MHz  | Channel 63 | 2464 MHz  |
| Channel 04                        | 2405 MHz  | Channel 24 | 2425 MHz  | Channel 44 | 2445 MHz  | Channel 64 | 2465 MHz  |
| Channel 05                        | 2406 MHz  | Channel 25 | 2426 MHz  | Channel 45 | 2446 MHz  | Channel 65 | 2466 MHz  |
| Channel 06                        | 2407 MHz  | Channel 26 | 2427 MHz  | Channel 46 | 2447 MHz  | Channel 66 | 2467 MHz  |
| Channel 07                        | 2408 MHz  | Channel 27 | 2428 MHz  | Channel 47 | 2448 MHz  | Channel 67 | 2468 MHz  |
| Channel 08                        | 2409 MHz  | Channel 28 | 2429 MHz  | Channel 48 | 2449 MHz  | Channel 68 | 2469 MHz  |
| Channel 09                        | 2410 MHz  | Channel 29 | 2430 MHz  | Channel 49 | 2450 MHz  | Channel 69 | 2470 MHz  |
| Channel 10                        | 2411 MHz  | Channel 30 | 2431 MHz  | Channel 50 | 2451 MHz  | Channel 70 | 2471 MHz  |
| Channel 11                        | 2412 MHz  | Channel 31 | 2432 MHz  | Channel 51 | 2452 MHz  | Channel 71 | 2472 MHz  |
| Channel 12                        | 2413 MHz  | Channel 32 | 2433 MHz  | Channel 52 | 2453 MHz  | Channel 72 | 2473 MHz  |
| Channel 13                        | 2414 MHz  | Channel 33 | 2434 MHz  | Channel 53 | 2454 MHz  | Channel 73 | 2474 MHz  |
| Channel 14                        | 2415 MHz  | Channel 34 | 2435 MHz  | Channel 54 | 2455 MHz  | Channel 74 | 2475 MHz  |
| Channel 15                        | 2416 MHz  | Channel 35 | 2436 MHz  | Channel 55 | 2456 MHz  | Channel 75 | 2476 MHz  |
| Channel 16                        | 2417 MHz  | Channel 36 | 2437 MHz  | Channel 56 | 2457 MHz  | Channel 76 | 2477 MHz  |
| Channel 17                        | 2418 MHz  | Channel 37 | 2438 MHz  | Channel 57 | 2458 MHz  | Channel 77 | 2478 MHz  |
| Channel 18                        | 2419 MHz  | Channel 38 | 2439 MHz  | Channel 58 | 2459 MHz  | Channel 78 | 2479 MHz  |
| Channel 19                        | 2420 MHz  | Channel 39 | 2440 MHz  | Channel 59 | 2460 MHz  |            |           |
| Channel 20                        | 2421 MHz  | Channel 40 | 2441 MHz  | Channel 60 | 2461 MHz  |            |           |

**Note:**

1. This device is a Wireless digitizer tablet included a 2.4GHz receiving function, and 2.4GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regards to the frequency band operation; the highest rate that was included the lowest 、 middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 089230R-RFUSP01V02 under Declaration of Conformity.

### 1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

|                 |                           |
|-----------------|---------------------------|
| Pre-Test Mode   |                           |
| EMI             | Mode 1: Transmit (Tablet) |
| Final Test Mode |                           |
| TX              | Mode 1: Transmit (Tablet) |

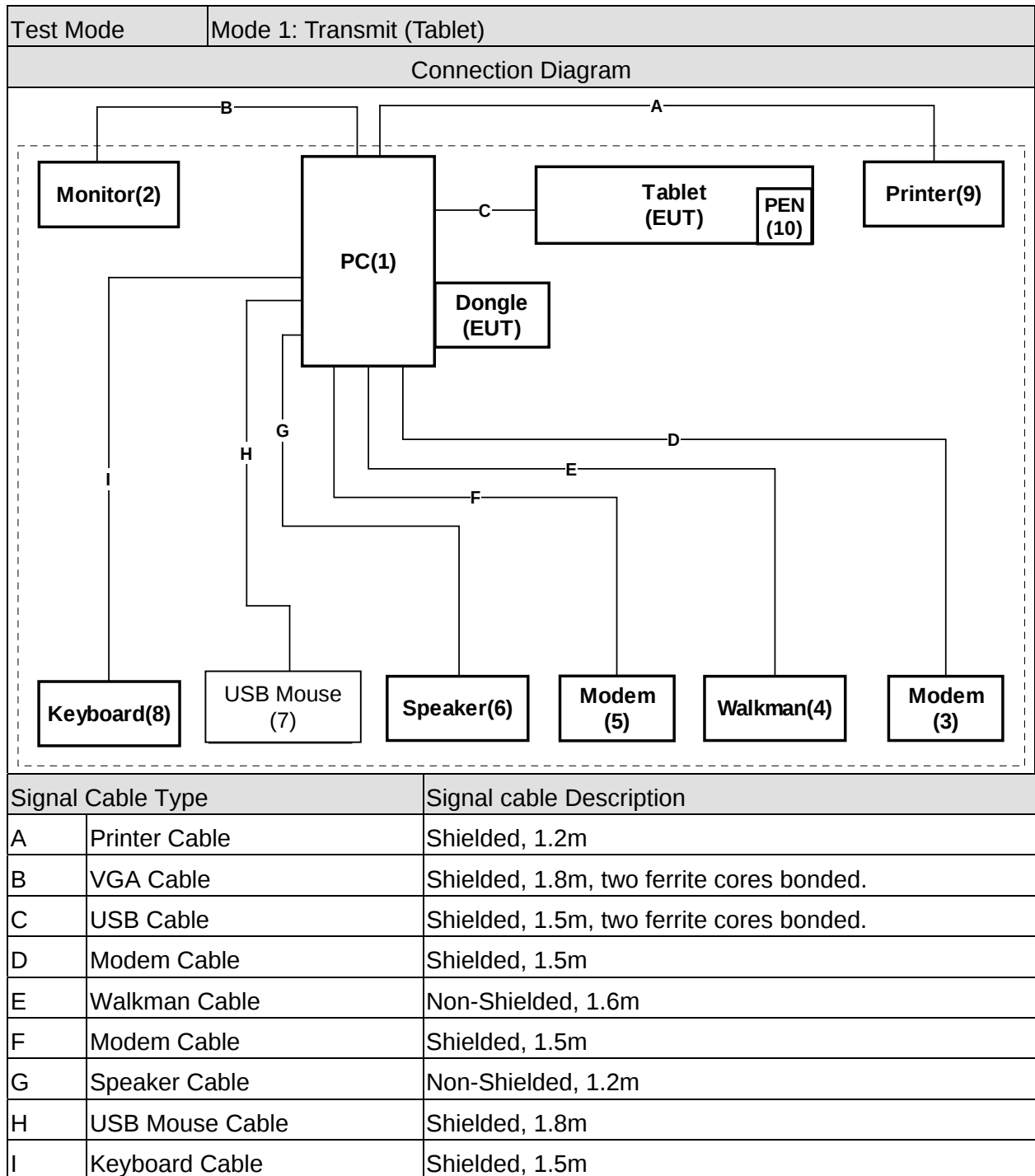
| Emission           |     |
|--------------------|-----|
| Conducted Emission | Yes |
| Peak Power Output  | Yes |
| Radiated Emission  | Yes |
| Band Edge          | Yes |
| Occupied Bandwidth | Yes |
| Power Density      | Yes |

#### 1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Test Mode |          | Mode 1: Transmit (Tablet)     |           |                 |        |                    |
|-----------|----------|-------------------------------|-----------|-----------------|--------|--------------------|
| Product   |          | Manufacturer                  | Model No. | Serial No.      | FCC ID | Power Cord         |
| 1         | PC       | HP                            | DTPC27    | SG21200950      | DoC    | Non-shielded, 1.8m |
| 2         | Monitor  | CHI MEI                       | A170E1-09 | 3UC120955SA1249 | DoC    | Non-shielded, 1.8m |
| 3         | Modem    | ACEEX                         | DM-1414   | 0102027543      | DoC    | Non-shielded, 1.6m |
| 4         | Walkman  | AIWA                          | US-J202   | I20201          | DoC    | --                 |
| 5         | Modem    | ACEEX                         | DM-2814   | 960018054       | DoC    | Non-shielded, 1.6m |
| 6         | Speaker  | Polk Audio                    | 205       | N/A             | DoC    | --                 |
| 7         | Mouse    | Logitech                      | M-SBF83   | HCA52200288     | DoC    | --                 |
| 8         | Keyboard | ACER                          | 6311-TW2C | N/A             | DoC    | --                 |
| 9         | Printer  | HP                            | C2642A    | MY75L1D2XN      | DoC    | Non-shielded, 0.7m |
| 10        | PEN      | Electromagnetic induction pen | M3A-020   | N/A             | DoC    | --                 |

### 1.5. Configuration of tested System



## 1.6. EUT Exercise Software

|   |                                                       |
|---|-------------------------------------------------------|
| 1 | Setup the EUT and simulators as shown on 1.5          |
| 2 | Turn on the power of all equipment.                   |
| 3 | Notebook PC reads data from disk.                     |
| 4 | Data will be transmitting through EUT.                |
| 5 | The transmitting status will be shown on the monitor. |
| 6 | Repeat the above procedure (4) to (5)                 |

## 1.7. Test Facility

Ambient conditions in the laboratory:

| Items                      | Test Item                                         | Required (IEC 68-1) | Actual   |
|----------------------------|---------------------------------------------------|---------------------|----------|
| Temperature (°C)           | FCC PART 15 C 15.207<br>Conducted Emission        | 15 - 35             | 20       |
| Humidity (%RH)             |                                                   | 25 - 75             | 50       |
| Barometric pressure (mbar) |                                                   | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 C 15.247<br>Band Edge (DSSS)          | 15 - 35             | 25       |
| Humidity (%RH)             |                                                   | 25 - 75             | 50       |
| Barometric pressure (mbar) |                                                   | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 C 15.247<br>Occupied Bandwidth (DSSS) | 15 - 35             | 25       |
| Humidity (%RH)             |                                                   | 25 - 75             | 50       |
| Barometric pressure (mbar) |                                                   | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 C 15.247<br>Peak Power Output (DSSS)  | 15 - 35             | 25       |
| Humidity (%RH)             |                                                   | 25 - 75             | 50       |
| Barometric pressure (mbar) |                                                   | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 C 15.247<br>Power Density (DSSS)      | 15 - 35             | 25       |
| Humidity (%RH)             |                                                   | 25 - 75             | 50       |
| Barometric pressure (mbar) |                                                   | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 C 15.247<br>Radiated Emission (DSSS)  | 15 - 35             | 25       |
| Humidity (%RH)             |                                                   | 25 - 75             | 50       |
| Barometric pressure (mbar) |                                                   | 860 - 1060          | 950-1000 |

Site Description:

January 24, 2005 File on  
Federal Communications Commission  
Laboratory Division  
7435 Oakland Mills Road  
Columbia, MD 21046  
Registration Number: 365520



Accredited by TAF  
Accreditation Number: 1313



Accredited by NVLAP  
NVLAP Lab Code: 200347-0  
Effective through: September 30, 2008



Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,  
Chiung-Lin, Hsin-Chu County,  
Taiwan, R.O.C.

TEL : 886-3-592-8858 / FAX : 886-3-592-8859

E-Mail : [service@quietek.com](mailto:service@quietek.com)

## 2. Peak Power Output

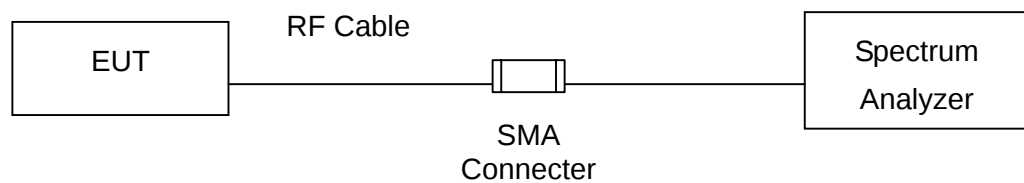
### 2.1. Test Equipment

The following test equipment are used during the test:

| Item | Equipment         | Manufacturer | Model No. / Serial No. | Last Cal.  |
|------|-------------------|--------------|------------------------|------------|
| 1    | Spectrum Analyzer | R&S          | FSP/ 100005            | Oct., 2006 |
| 2    | No.1 OATS         |              |                        | Sep., 2006 |

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

### 2.2. Test Setup



### 2.3. Test procedures

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

### 2.4. Limits

The maximum peak power shall be less 1 Watt.

### 2.5. Test Specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.247:2005

### 2.6. Uncertainty

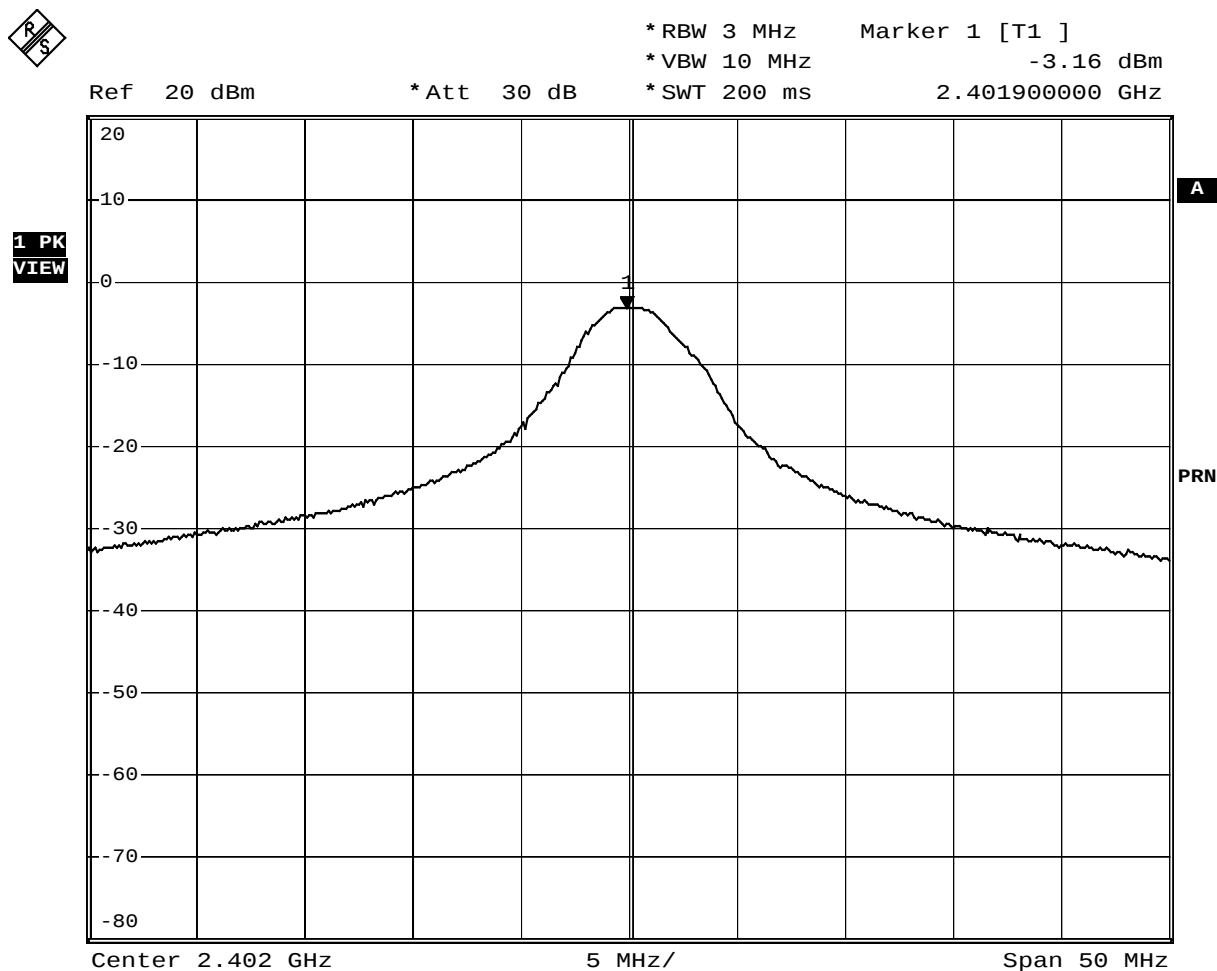
The measurement uncertainty is defined as  $\pm 1.27$  dB.

## 2.7. Test Result

|              |                           |           |           |
|--------------|---------------------------|-----------|-----------|
| Product      | Wireless digitizer tablet |           |           |
| Test Item    | Peak Power Output         |           |           |
| Test Mode    | Mode 1: Transmit (Tablet) |           |           |
| Date of Test | 2008/11/20                | Test Site | No.1 OATS |

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm)   | Result |
|-------------|-----------------|---------------------|---------------|--------|
| 01          | 2402            | -3.16               | 1Watt= 30 dBm | Pass   |
| 39          | 2440            | -3.04               | 1Watt= 30 dBm | Pass   |
| 78          | 2479            | -2.98               | 1Watt= 30 dBm | Pass   |

### Channel 01



Date: 20.NOV.2008 09:12:01

**Channel 38**

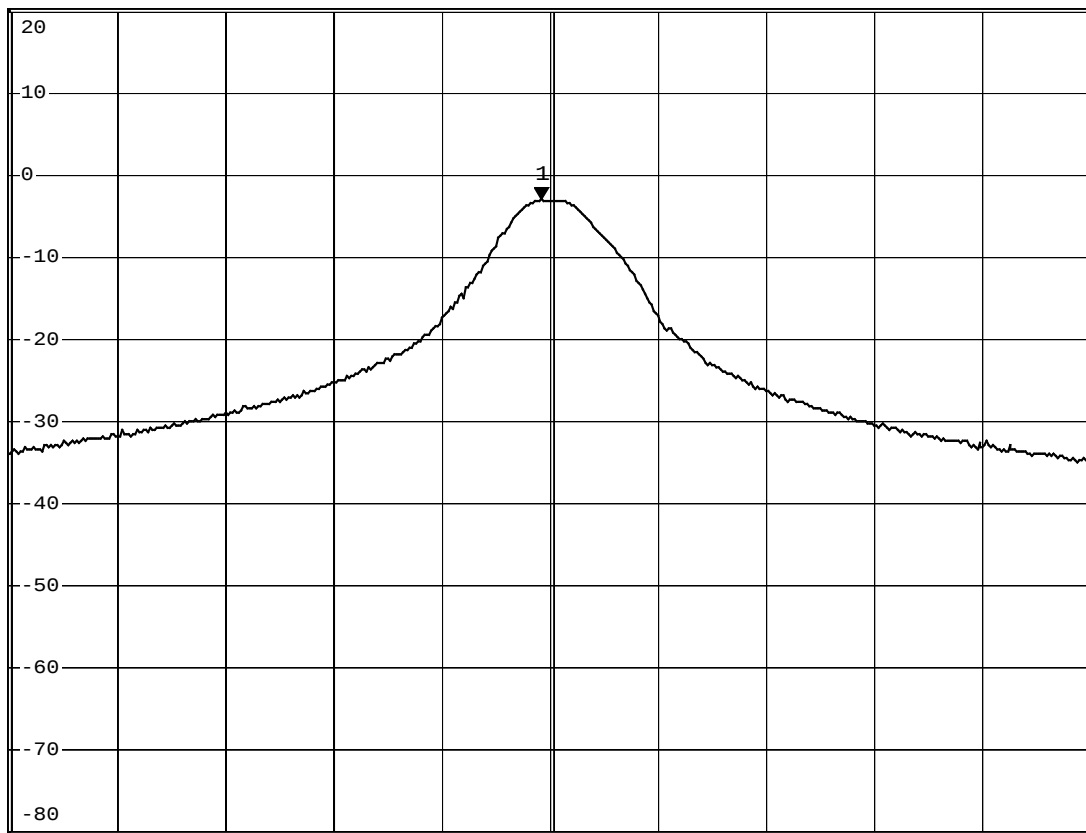


\* RBW 3 MHz      Marker 1 [T1 ]  
 \* VBW 10 MHz      -3.04 dBm  
 \* SWT 200 ms      2.439600000 GHz

Ref 20 dBm

\* Att 30 dB

1 PK  
VIEW



Center 2.44 GHz

5 MHz/

Span 50 MHz

Date: 20.NOV.2008 09:13:15

**Channel 79**

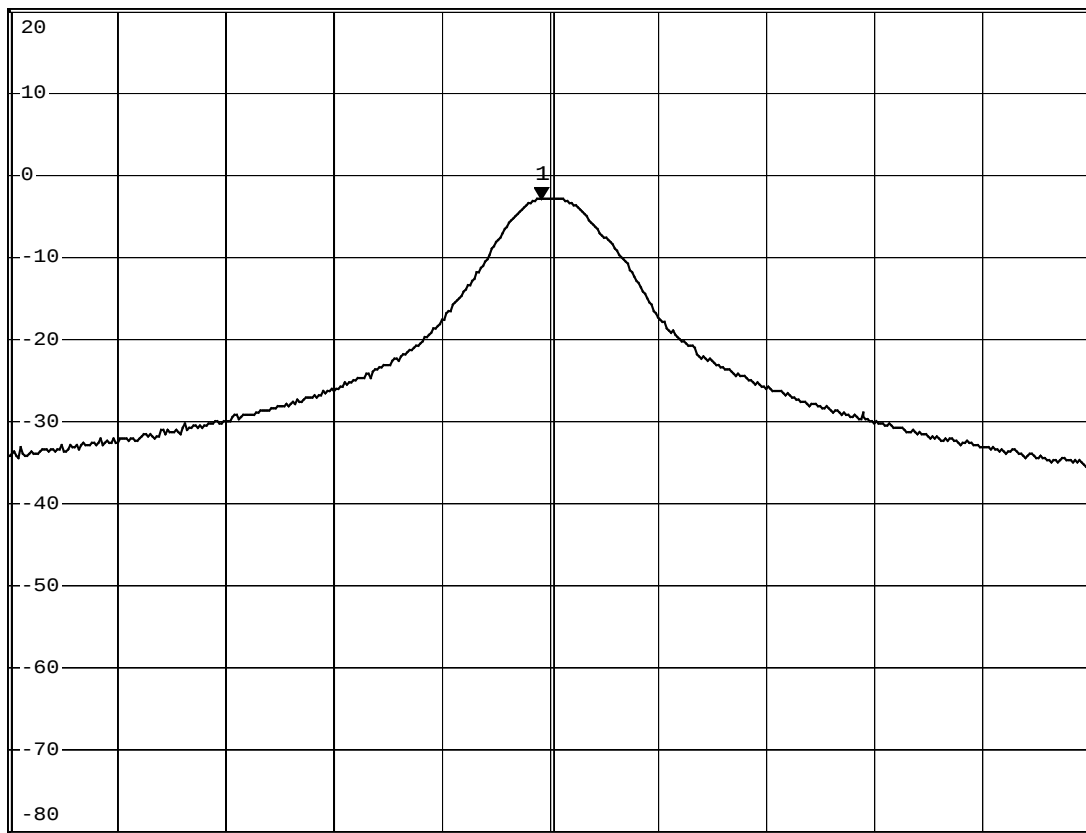


\* RBW 3 MHz      Marker 1 [T1 ]  
 \* VBW 10 MHz      -2.98 dBm  
 \* SWT 200 ms      2.478600000 GHz

Ref 20 dBm

\* Att 30 dB

1 PK  
VIEW



Center 2.479 GHz

5 MHz/

Span 50 MHz

Date: 20.NOV.2008 09:09:08

### 3. RF antenna conducted test

#### 3.1. Test Equipment

The following test equipments are used during the test:

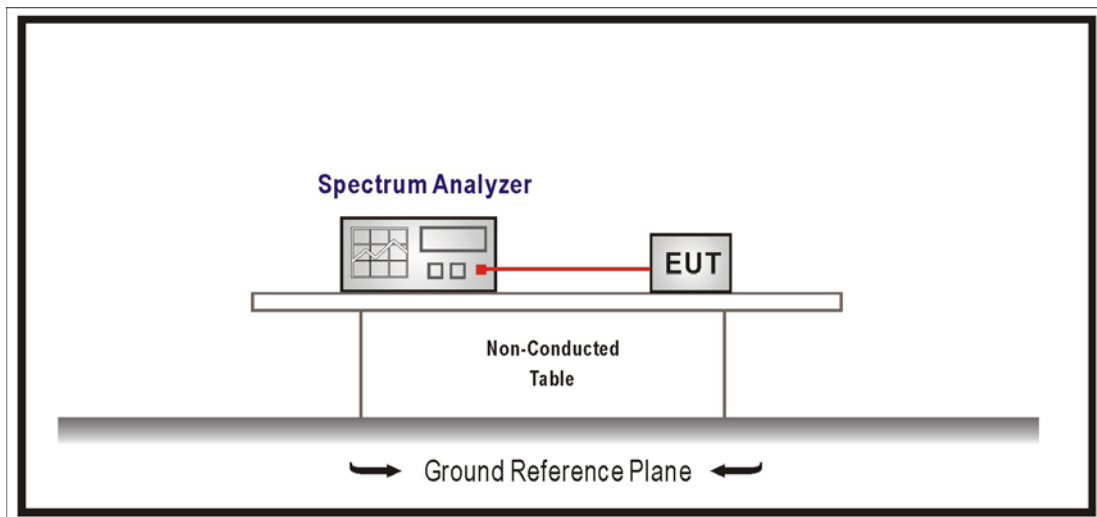
| RF Conducted Measurement: |                   |              |                        |            |
|---------------------------|-------------------|--------------|------------------------|------------|
| Item                      | Equipment         | Manufacturer | Model No. / Serial No. | Last Cal.  |
| 1                         | Spectrum Analyzer | R & S        | FSP / 100561           | Jan., 2008 |
| 2                         | No.1 OATS         |              |                        | Sep., 2008 |

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. Test instruments are marked with "X" are used to measure the final test results.

#### 3.2. Test Setup

RF Antenna Conducted Measurement:



### **3.3. Limits**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or 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)).

### **3.4. Test Procedure**

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

### **3.5. Uncertainty**

The measurement uncertainty

Conducted is defined as  $\pm 1.27\text{dB}$

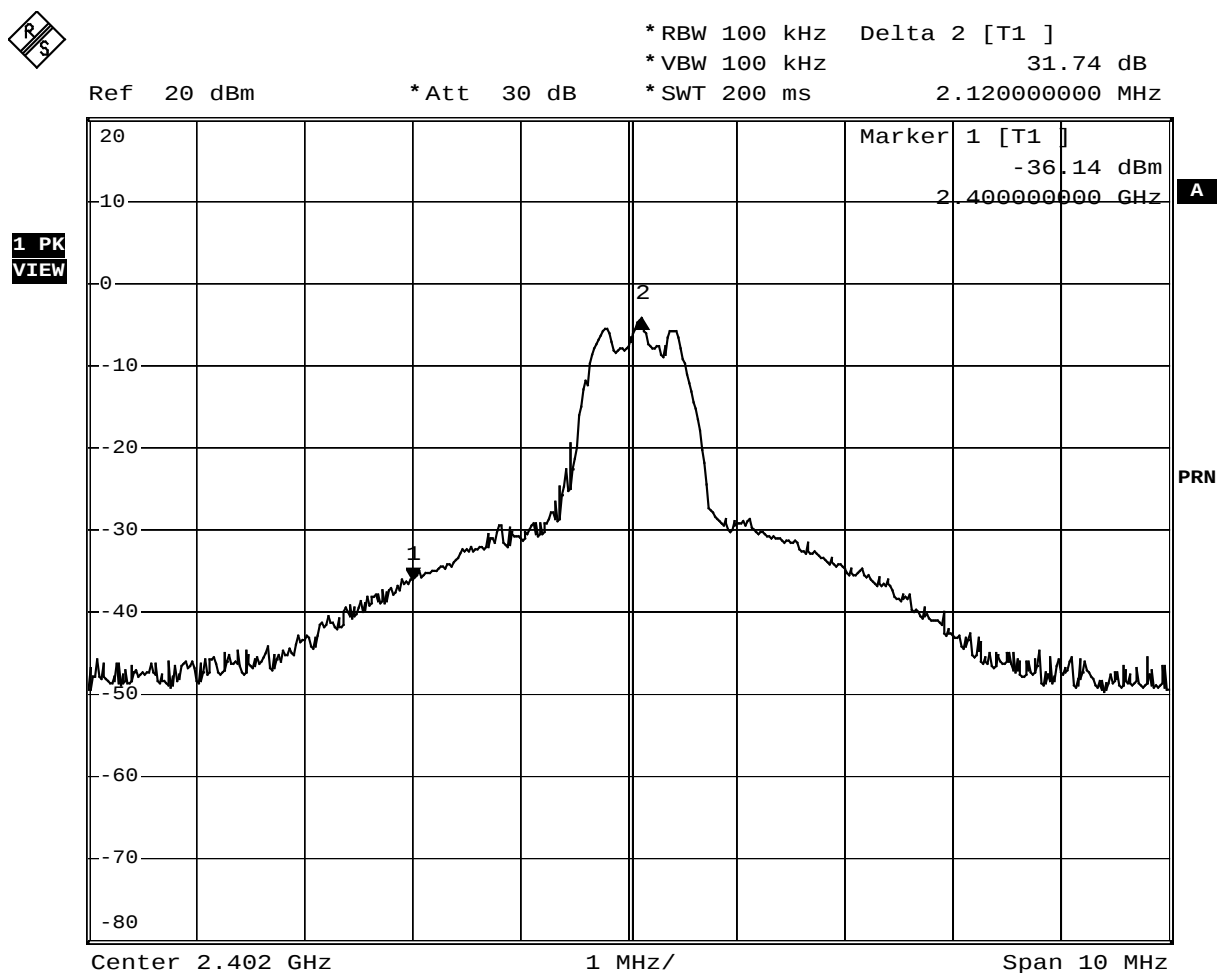
Radiated is defined as  $\pm 3.9\text{dB}$

### 3.6. Test Result

|              |                           |           |           |
|--------------|---------------------------|-----------|-----------|
| Product      | Wireless digitizer tablet |           |           |
| Test Item    | RF antenna conducted test |           |           |
| Test Mode    | Mode 1: Transmit (Tablet) |           |           |
| Date of Test | 2008/11/20                | Test Site | No.1 OATS |

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 01          | 2402            | 31.74                   | >20                  | Pass   |
| 78          | 2479            | 41.20                   | >20                  | Pass   |

#### Channel 01 (2402MHz)



Date: 20.NOV.2008 09:04:00

# Channel 78 (2479MHz)

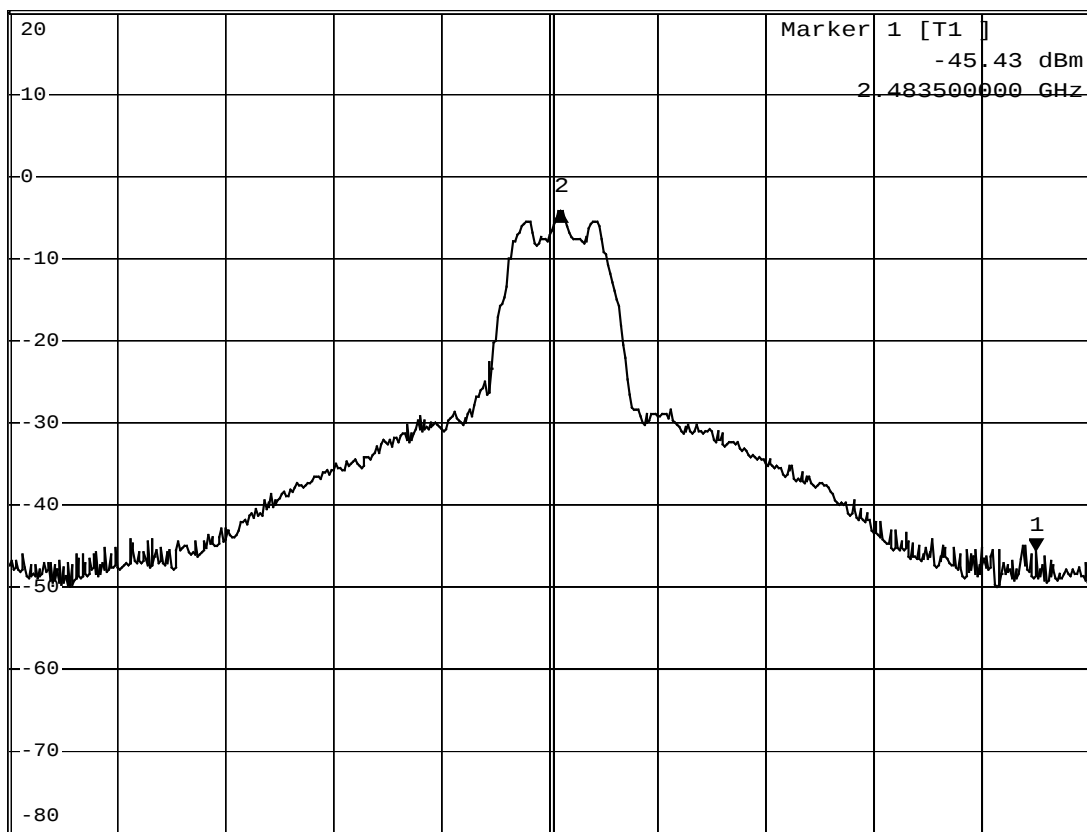


\* RBW 100 kHz Delta 2 [T1 ]  
 \* VBW 100 kHz 41.20 dB  
 \* SWT 200 ms -4.400000000 MHz

Ref 20 dBm

\* Att 30 dB

1 PK  
VIEW

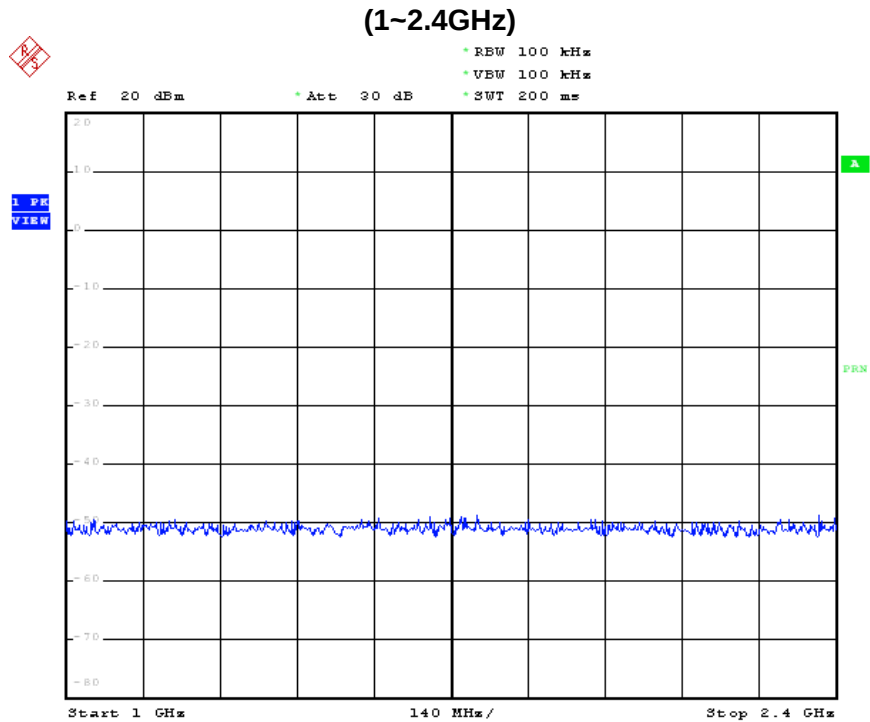


Center 2.479 GHz

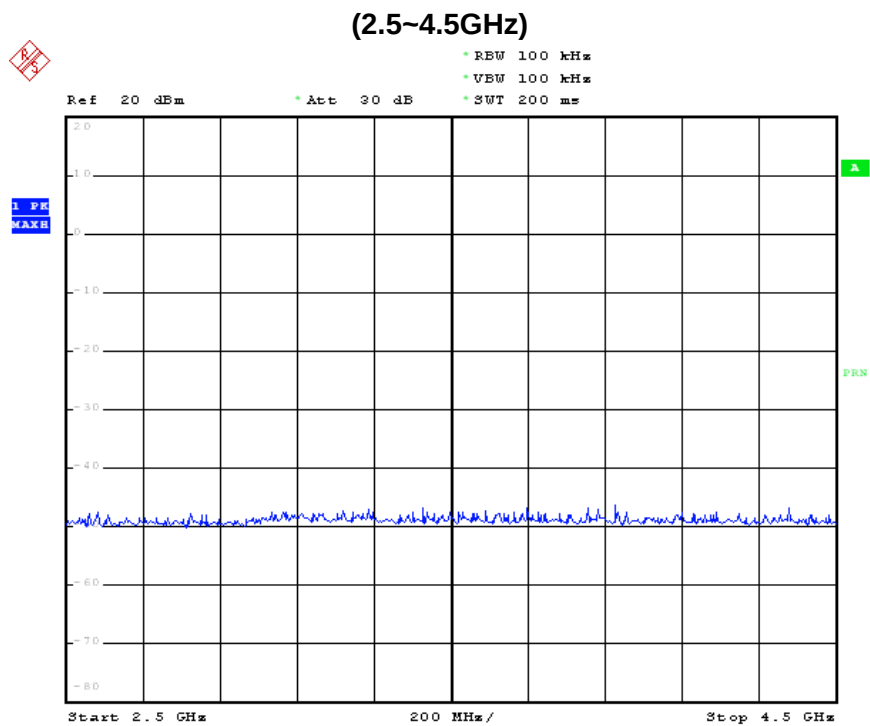
1 MHz/

Span 10 MHz

Date: 20.NOV.2008 09:05:15

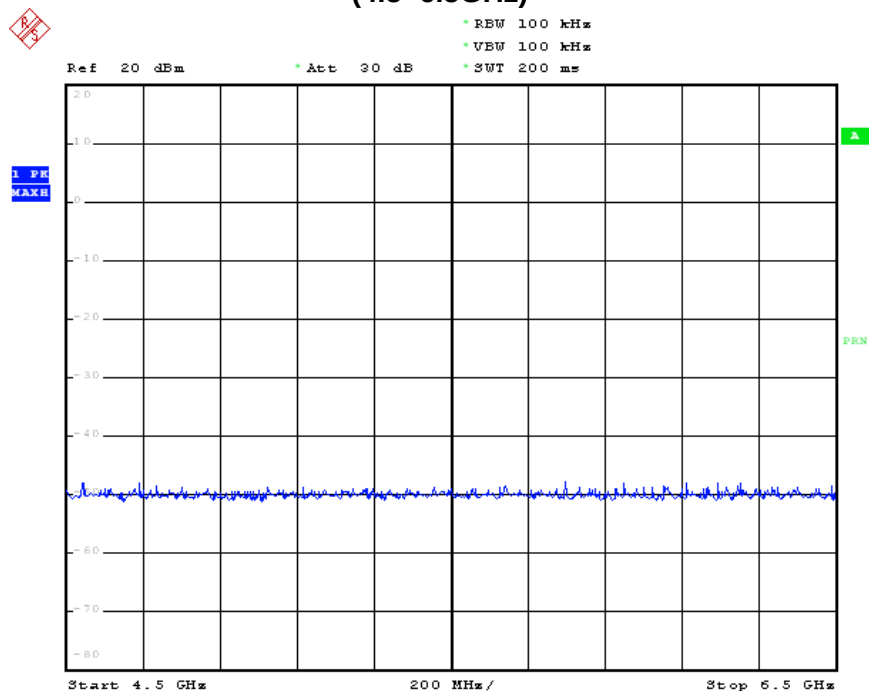


Date: 19.NOV.2008 11:56:09



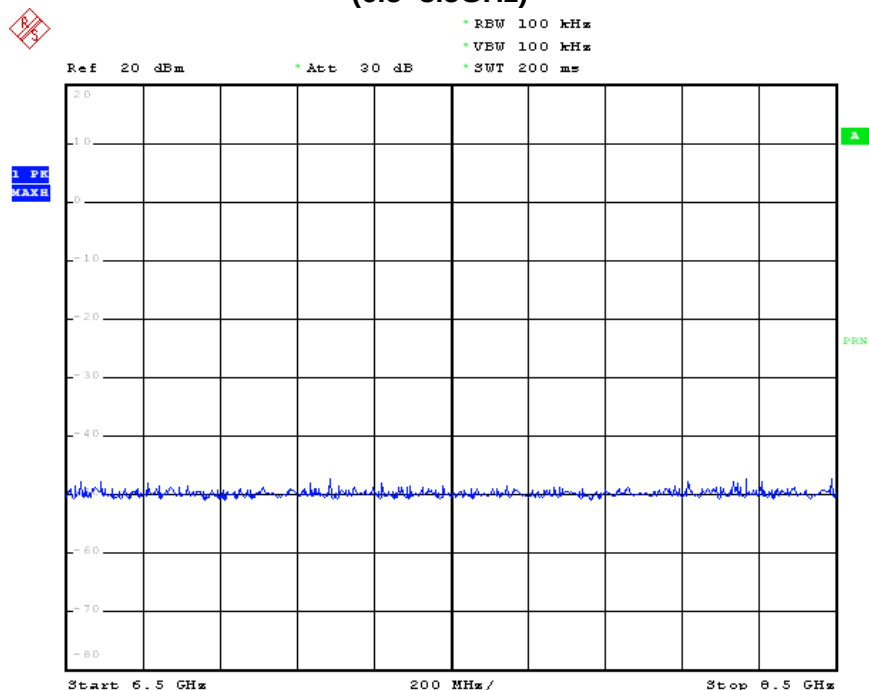
Date: 19.NOV.2008 11:59:30

## (4.5~6.5GHz)



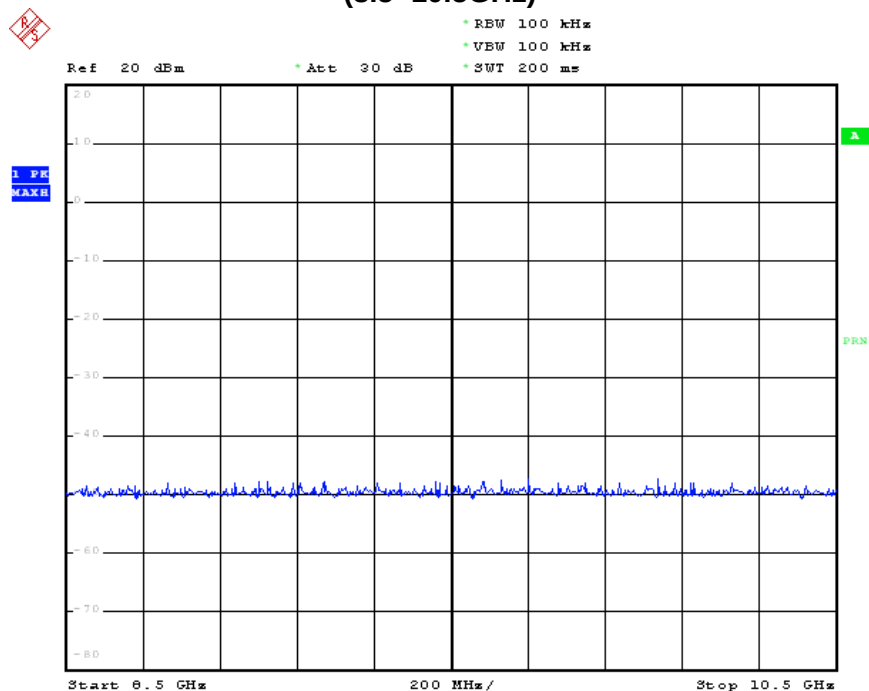
Date: 19.NOV.2008 12:02:40

## (6.5~8.5GHz)



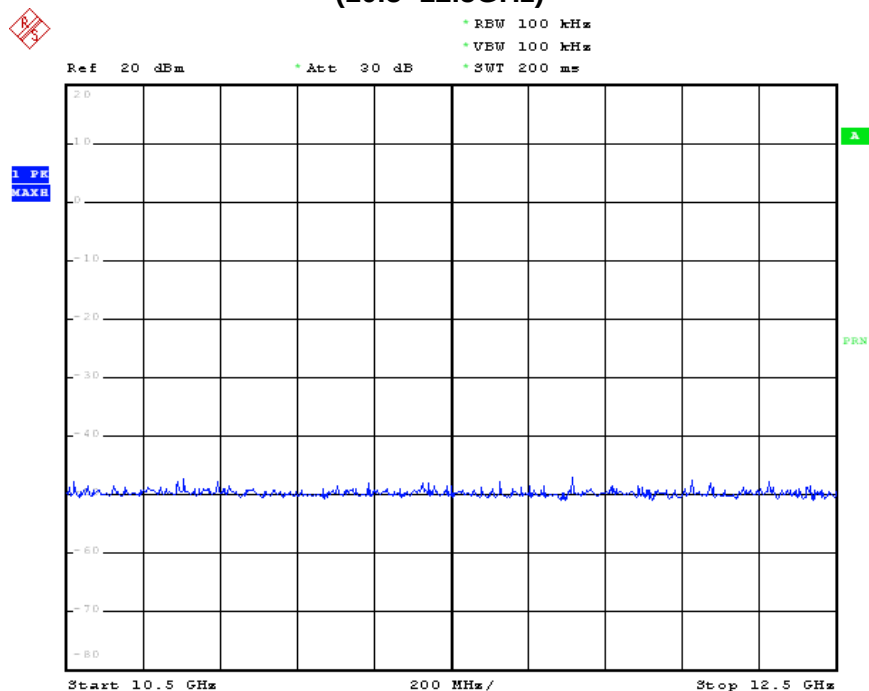
Date: 19.NOV.2008 12:03:17

## (8.5~10.5GHz)



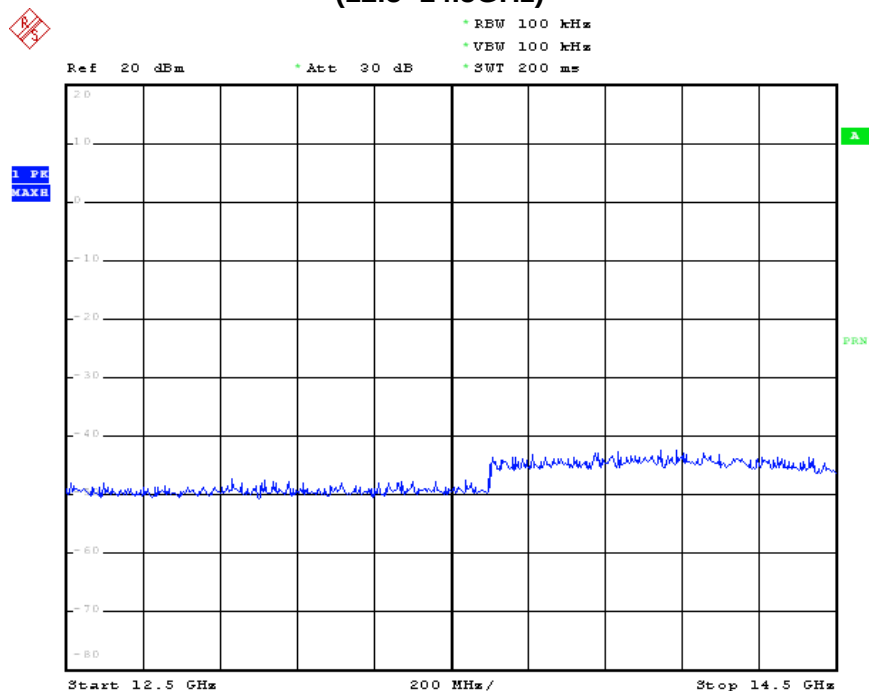
Date: 19.NOV.2008 12:03:57

## (10.5~12.5GHz)



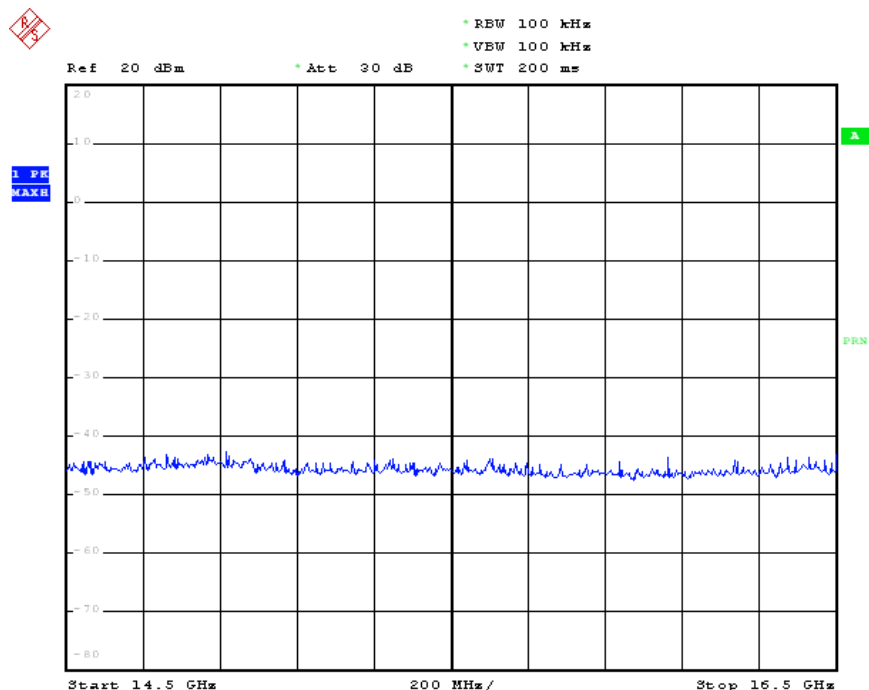
Date: 19.NOV.2008 12:04:54

## (12.5~14.5GHz)



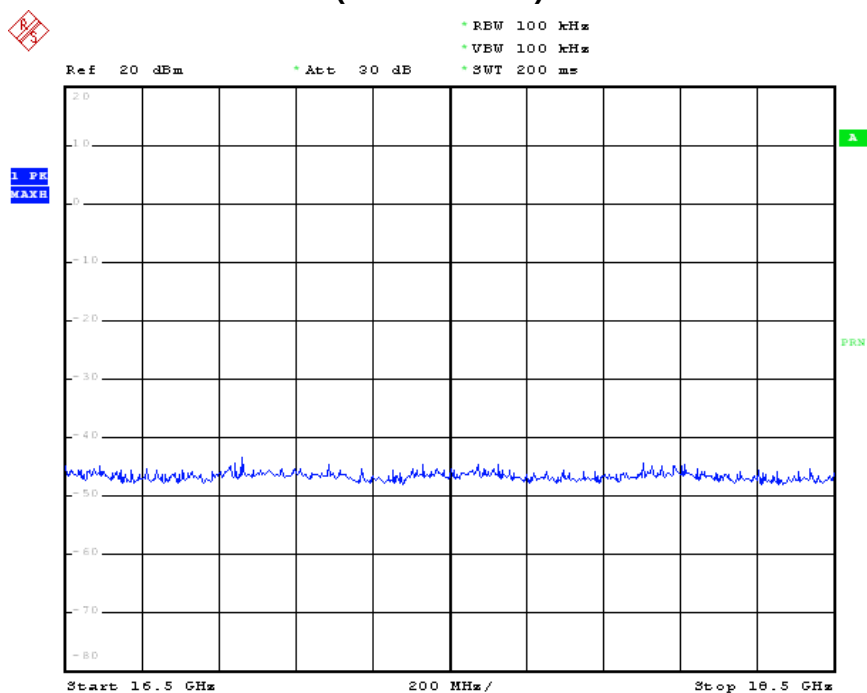
Date: 19.NOV.2008 12:05:29

## (14.5~16.5GHz)



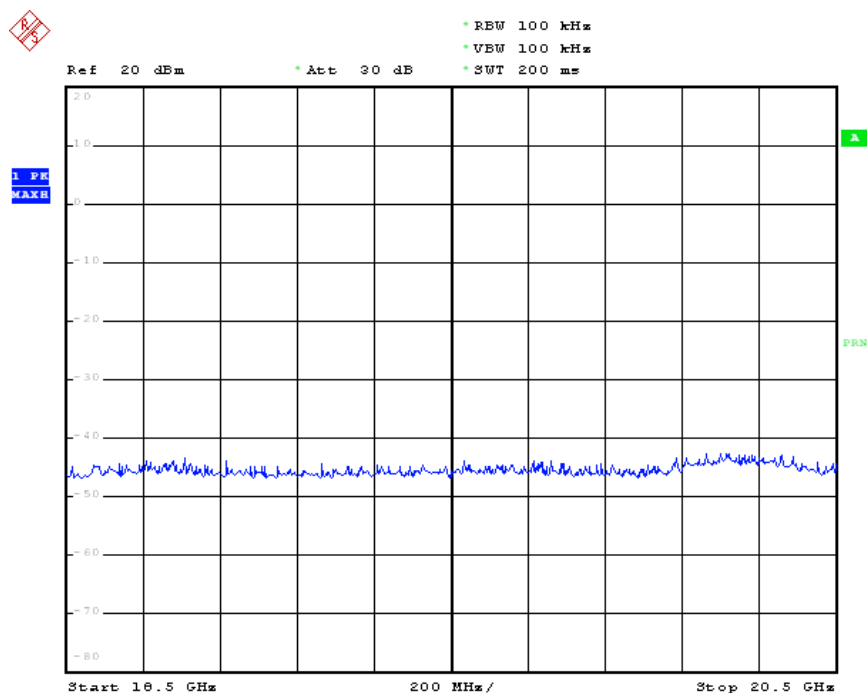
Date: 19.NOV.2008 12:06:06

(16.5~18.5GHz)



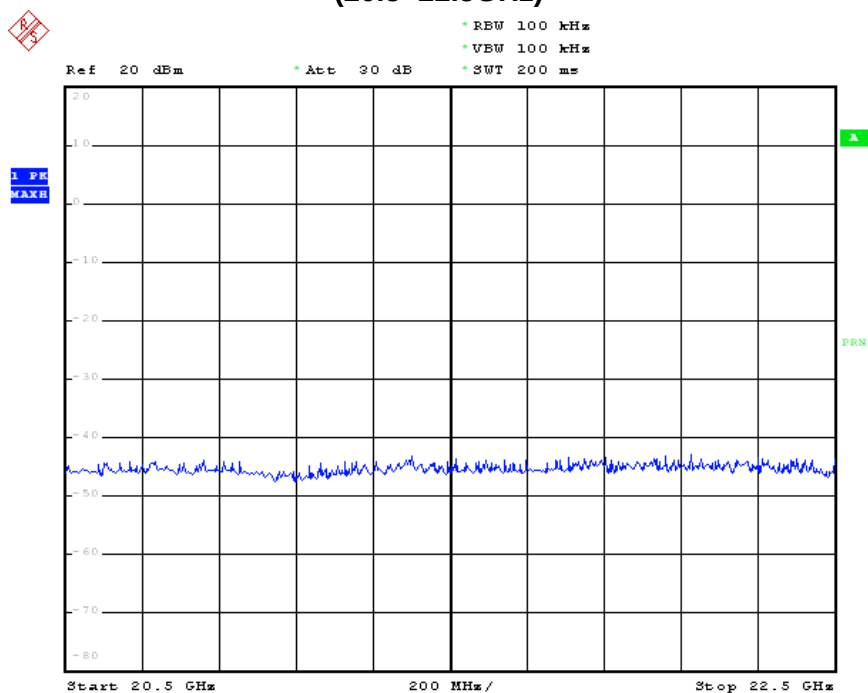
Date: 19.NOV.2008 12:06:44

(18.5~20.5GHz)



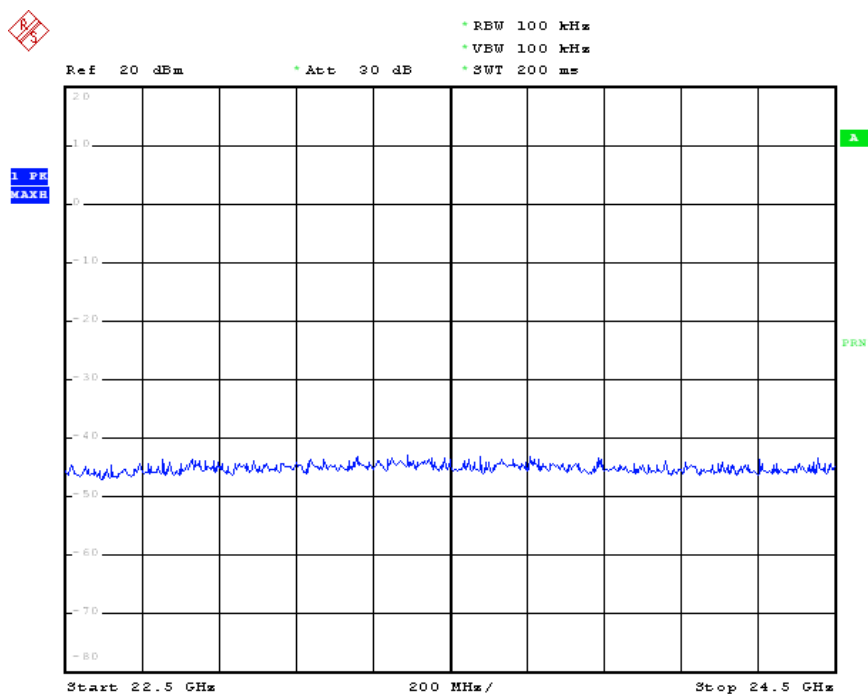
Date: 19.NOV.2008 13:16:47

## (20.5~22.5GHz)



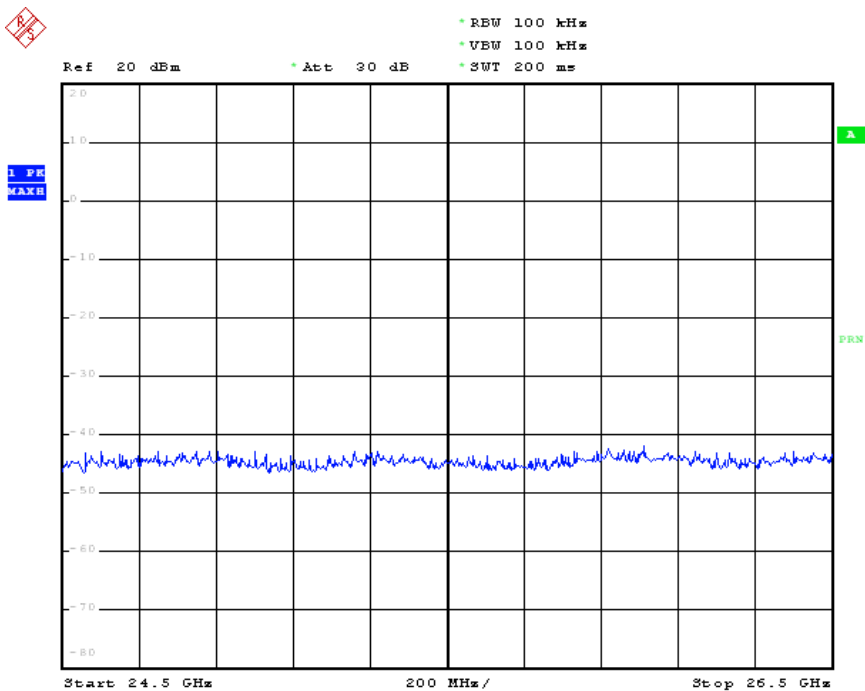
Date: 19.NOV.2008 13:19:43

## (22.5~24.5GHz)



Date: 19.NOV.2008 13:20:43

(24.5~26.5GHz)



Date: 19.NOV.2008 13:21:21

## 4. Conducted Emission

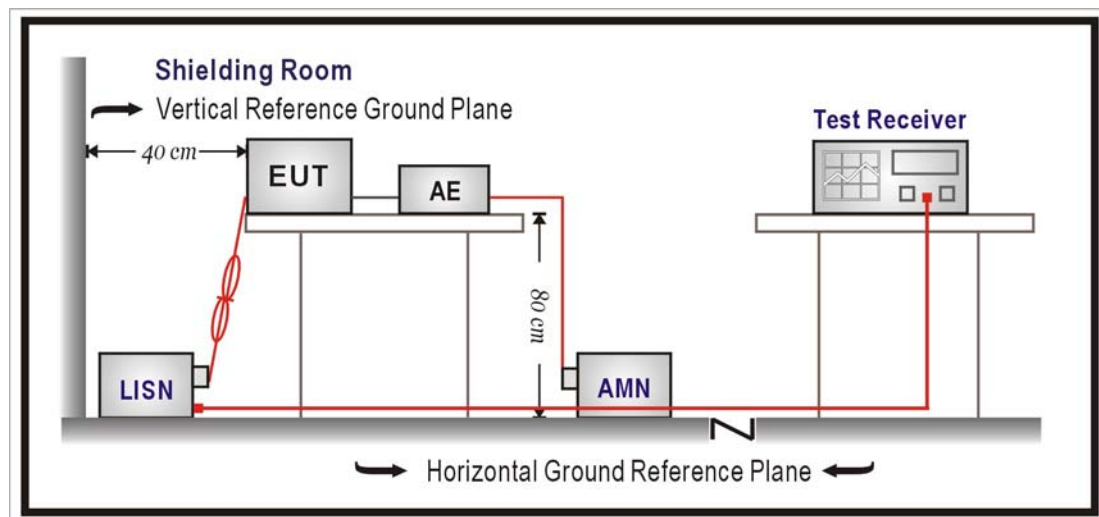
### 4.1. Test Equipment

The following test equipment are used during the test:

| Item | Equipment                | Manufacturer | Model No. / Serial No. | Last Cal.  | Remark      |
|------|--------------------------|--------------|------------------------|------------|-------------|
| 1    | Test Receiver            | R & S        | ESCS 30/825442/018     | Sep., 2006 |             |
| 2    | Artificial Mains Network | R & S        | ENV4200/848411/10      | Feb., 2007 | Peripherals |
| 3    | LISN                     | R & S        | ESH3-Z5/825562/002     | Feb., 2007 | EUT         |
| 4    | Pulse Limiter            | R & S        | ESH3-Z2/357.8810.52    | Feb., 2007 |             |
| 5    | No.2 Shielded Room       |              |                        | N/A        |             |

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

### 4.2. Test Setup



#### 4.3. Limits

| FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV) |       |       |
|------------------------------------------------------|-------|-------|
| Frequency<br>MHz                                     | QP    | AV    |
| 0.15 - 0.50                                          | 66-56 | 56-46 |
| 0.50-5.0                                             | 56    | 46    |
| 5.0 - 30                                             | 60    | 50    |

Remarks : In the above table, the tighter limit applies at the band edges.

#### 4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

#### 4.5. Test Specification

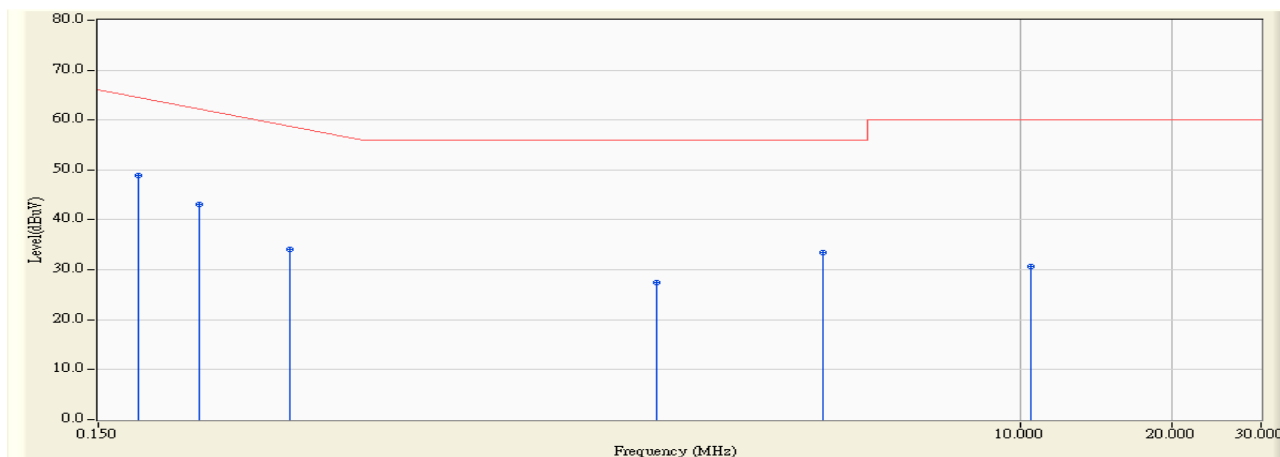
According to FCC Part 15 Subpart C Paragraph 15.207: 2005

#### 4.6. Uncertainty

The measurement uncertainty is defined as  $\pm 2.26$  dB.

#### 4.7. Test Result

|                                |                                  |
|--------------------------------|----------------------------------|
| Site : QuieTek Shielding Room2 | Time : 2006/04/19 - 19:39        |
| Limit : CISPR_B_00M_QP         | Margin : 0                       |
| EUT :Wireless digitizer tablet | Probe : SR3_LISN(16A) - Line1    |
| Power : AC 120V/60Hz           | Note : Mode 1: Transmit (Tablet) |

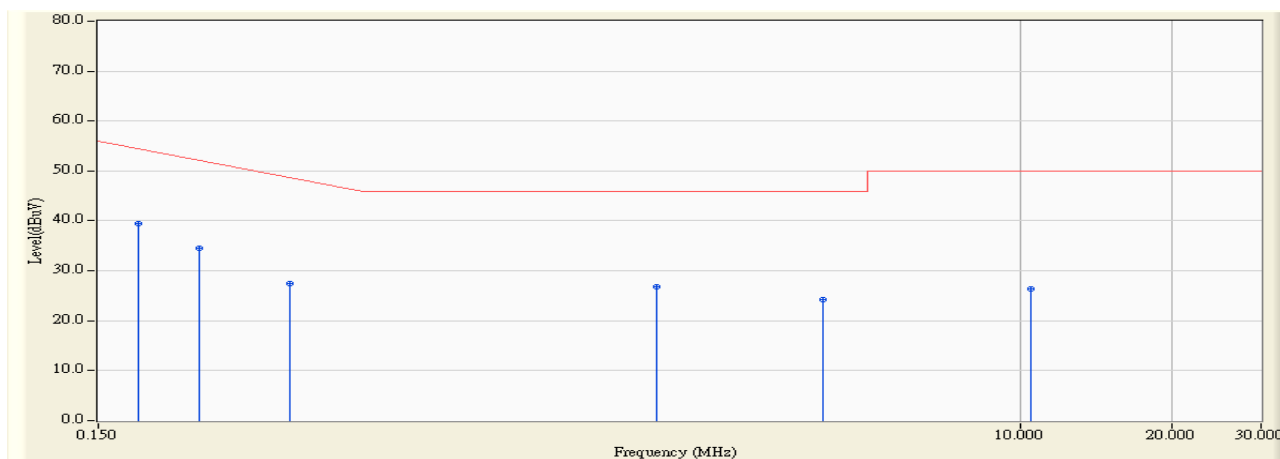


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV) | Margin<br>(dB) | Limit<br>(dBuV) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|-------------------------|----------------|-----------------|---------------|
| 1 | * | 0.180              | 0.147                  | 48.820                  | 48.967                  | -16.176        | 65.143          | QUASIPeAK     |
| 2 |   | 0.238              | 0.160                  | 42.880                  | 43.040                  | -20.446        | 63.486          | QUASIPeAK     |
| 3 |   | 0.358              | 0.190                  | 33.920                  | 34.110                  | -25.947        | 60.057          | QUASIPeAK     |
| 4 |   | 1.915              | 0.370                  | 27.140                  | 27.510                  | -28.490        | 56.000          | QUASIPeAK     |
| 5 |   | 4.075              | 0.430                  | 33.030                  | 33.460                  | -22.540        | 56.000          | QUASIPeAK     |
| 6 |   | 10.543             | 0.730                  | 29.940                  | 30.670                  | -29.330        | 60.000          | QUASIPeAK     |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
- 3.Measurement Level = Reading Level + Correct Factor

|                                |                                  |
|--------------------------------|----------------------------------|
| Site : QuieTek Shielding Room2 | Time : 2006/04/19 - 19:39        |
| Limit : CISPR_B_00M_AV         | Margin : 0                       |
| EUT :Wireless digitizer tablet | Probe : SR3_LISN(16A) - Line1    |
| Power : AC 120V/60Hz           | Note : Mode 1: Transmit (Tablet) |

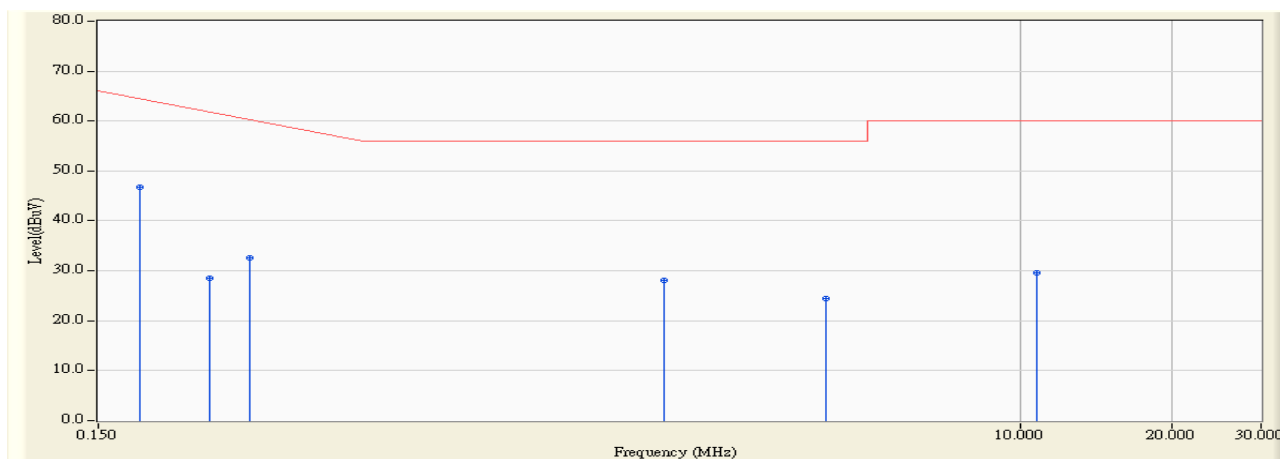


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV) | Margin<br>(dB) | Limit<br>(dBuV) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|-------------------------|----------------|-----------------|---------------|
| 1 | * | 0.180              | 0.147                  | 39.220                  | 39.367                  | -15.776        | 55.143          | AVERAGE       |
| 2 |   | 0.238              | 0.160                  | 34.370                  | 34.530                  | -18.956        | 53.486          | AVERAGE       |
| 3 |   | 0.358              | 0.190                  | 27.330                  | 27.520                  | -22.537        | 50.057          | AVERAGE       |
| 4 |   | 1.915              | 0.370                  | 26.520                  | 26.890                  | -19.110        | 46.000          | AVERAGE       |
| 5 |   | 4.075              | 0.430                  | 23.800                  | 24.230                  | -21.770        | 46.000          | AVERAGE       |
| 6 |   | 10.543             | 0.730                  | 25.740                  | 26.470                  | -23.530        | 50.000          | AVERAGE       |

## Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
- 3.Measurement Level = Reading Level + Correct Factor

|                                |                                  |
|--------------------------------|----------------------------------|
| Site : QuieTek Shielding Room2 | Time : 2006/04/19 - 19:44        |
| Limit : CISPR_B_00M_QP         | Margin : 0                       |
| EUT :Wireless digitizer tablet | Probe : SR3_LISN(16A) - Line2    |
| Power : AC 120V/60Hz           | Note : Mode 1: Transmit (Tablet) |

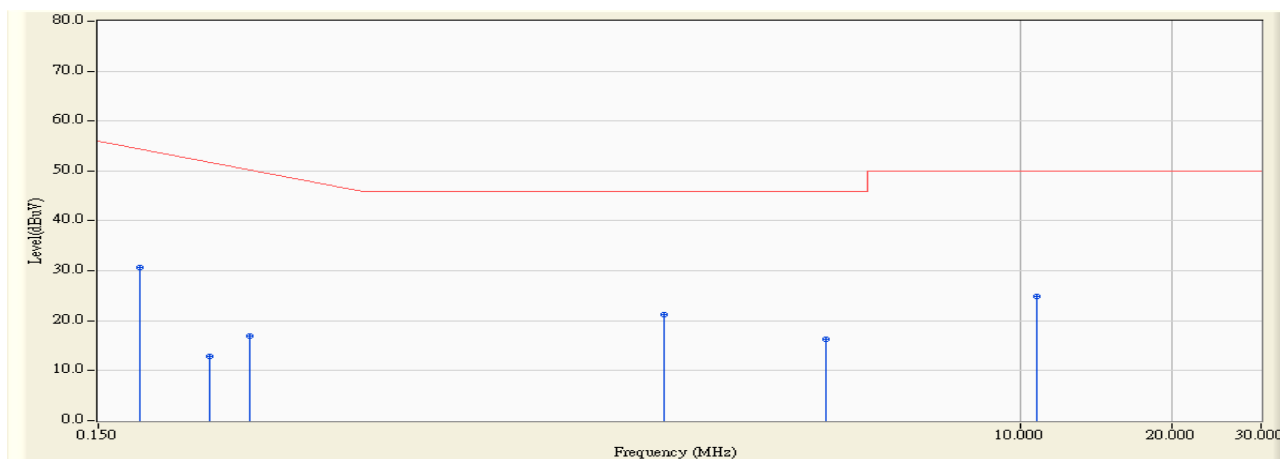


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV) | Margin<br>(dB) | Limit<br>(dBuV) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|-------------------------|----------------|-----------------|---------------|
| 1 | * | 0.181              | 0.147                  | 46.550                  | 46.697                  | -18.417        | 65.114          | QUASIPeAK     |
| 2 |   | 0.249              | 0.160                  | 28.270                  | 28.430                  | -34.741        | 63.171          | QUASIPeAK     |
| 3 |   | 0.300              | 0.177                  | 32.500                  | 32.677                  | -29.037        | 61.714          | QUASIPeAK     |
| 4 |   | 1.977              | 0.390                  | 27.620                  | 28.010                  | -27.990        | 56.000          | QUASIPeAK     |
| 5 |   | 4.125              | 0.430                  | 23.970                  | 24.400                  | -31.600        | 56.000          | QUASIPeAK     |
| 6 |   | 10.793             | 0.660                  | 28.880                  | 29.540                  | -30.460        | 60.000          | QUASIPeAK     |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
- 3.Measurement Level = Reading Level + Correct Factor

|                                |                                  |
|--------------------------------|----------------------------------|
| Site : QuieTek Shielding Room2 | Time : 2006/04/19 - 19:44        |
| Limit : CISPR_B_00M_AV         | Margin : 0                       |
| EUT :Wireless digitizer tablet | Probe : SR3_LISN(16A) - Line2    |
| Power : AC 120V/60Hz           | Note : Mode 1: Transmit (Tablet) |



|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV) | Margin<br>(dB) | Limit<br>(dBuV) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|-------------------------|----------------|-----------------|---------------|
| 1 | * | 0.181              | 0.147                  | 30.500                  | 30.647                  | -24.467        | 55.114          | AVERAGE       |
| 2 |   | 0.249              | 0.160                  | 12.630                  | 12.790                  | -40.381        | 53.171          | AVERAGE       |
| 3 |   | 0.300              | 0.177                  | 16.710                  | 16.887                  | -34.827        | 51.714          | AVERAGE       |
| 4 |   | 1.977              | 0.390                  | 20.760                  | 21.150                  | -24.850        | 46.000          | AVERAGE       |
| 5 |   | 4.125              | 0.430                  | 15.780                  | 16.210                  | -29.790        | 46.000          | AVERAGE       |
| 6 |   | 10.793             | 0.660                  | 24.270                  | 24.930                  | -25.070        | 50.000          | AVERAGE       |

## Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
- 3.Measurement Level = Reading Level + Correct Factor

## 5. Radiated Emission

### 5.1. Test Equipment

The following test equipment are used during the test:

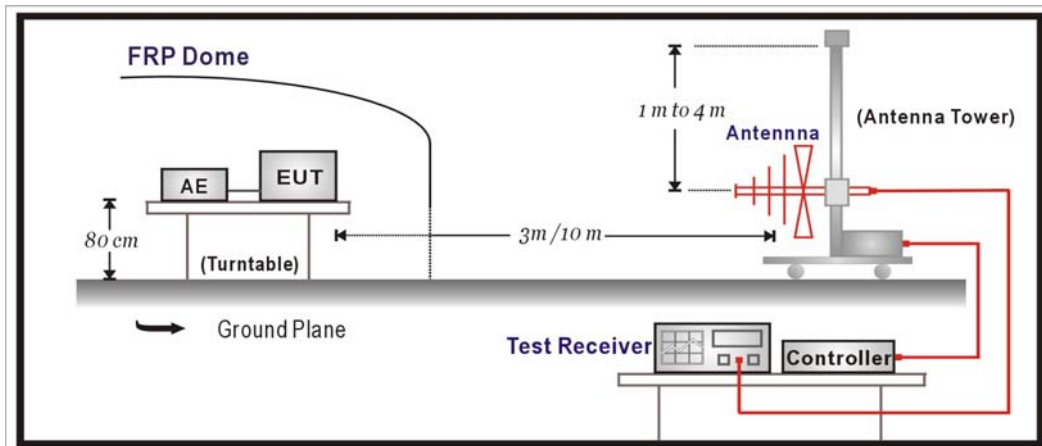
| Item |   | Equipment         | Manufacturer | Model No. / Serial No.       | Last Cal.  |
|------|---|-------------------|--------------|------------------------------|------------|
| 1    | X | Test Receiver     | R & S        | ESCS 30 / 825442/017         | Jan., 2007 |
| 2    | X | Spectrum Analyzer | Advantest    | R3261C / 81720266            | N/A        |
| 3    | X | Pre-Amplifier     | HP           | 8447D / 2944A09276           | N/A        |
| 4    | X | Bilog Antenna     | Chase        | CBL6112B / 2455              | Sep., 2006 |
| 5    | X | Spectrum Analyzer | R & S        | FSP40 / 100005               | Aug., 2006 |
| 6    | X | Pre-Amplifier     | HP           | 8449B / 3008A01123           | Feb., 2007 |
| 7    | X | Horn Antenna      | Schwarzbeck  | BBHA 9120D /<br>BBHA9120D312 | Jul., 2006 |
| 8    |   | No.1 OATS         |              |                              | Sep., 2006 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

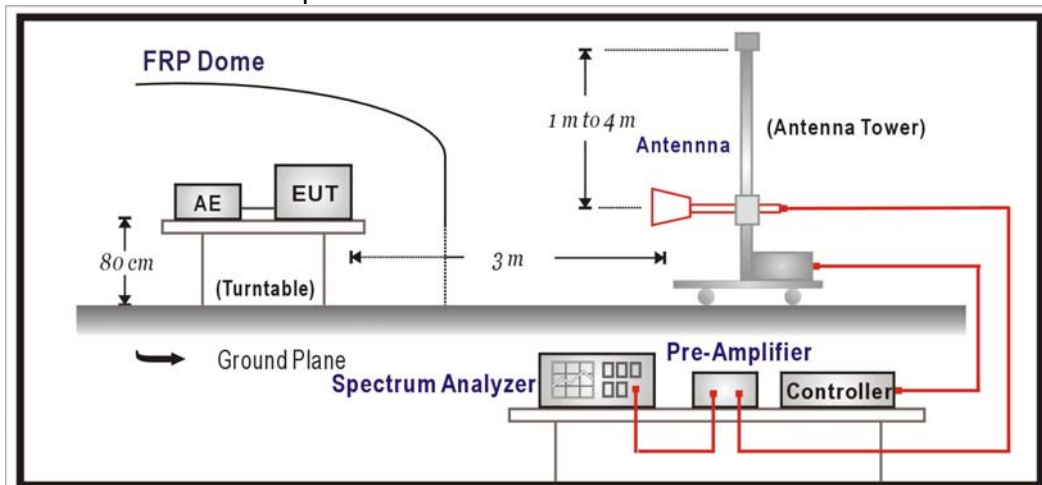
2. "N/A" Ca1.Date is used to Pre-test, not final test.

### 5.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



### 5.3. Limits

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

| FCC Part 15 Subpart C Paragraph 15.209 Limits |      |        |
|-----------------------------------------------|------|--------|
| Frequency<br>MHz                              | uV/m | dBuV/m |
| 30-88                                         | 100  | 40     |
| 88-216                                        | 150  | 43.5   |
| 216-960                                       | 200  | 46     |
| Above 960                                     | 500  | 54     |

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

### 5.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement. The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz. The frequency range from 30MHz to 10th harmonics is checked.

### 5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

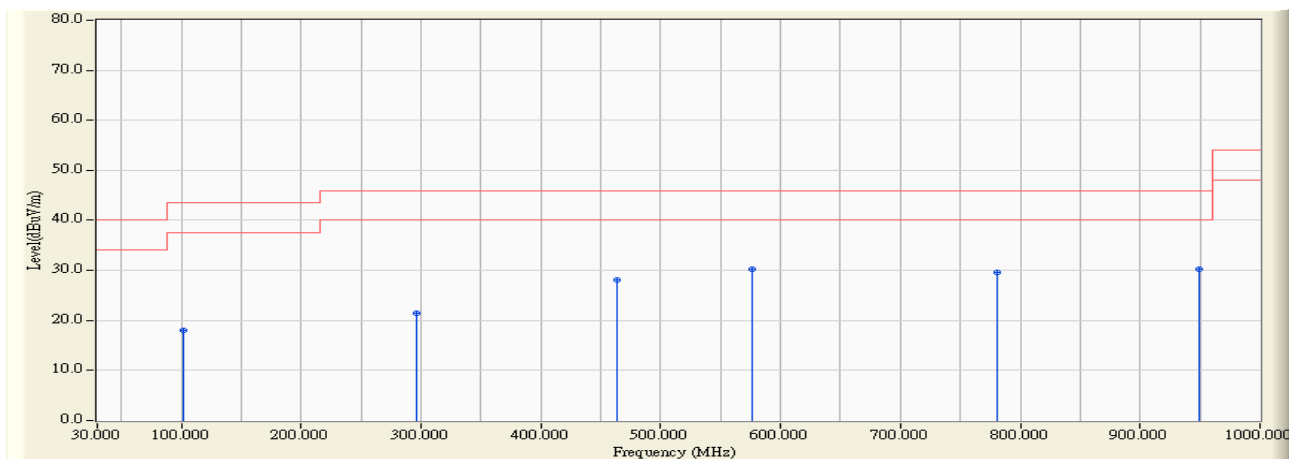
### 5.6. Uncertainty

The measurement uncertainty  
 30MHz~1GHz as  $\pm 3.19\text{dB}$   
 1GHz~26.5Ghz as  $\pm 3.9\text{dB}$

## 5.7. Test Result

### 30MHz-1GHz Spurious:

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Site : CB3                     | Time : 2007/04/19 - 13:56                 |
| Limit : FCC_CLASS_B_03M_QP     | Margin : 6                                |
| EUT :Wireless digitizer tablet | Probe : FCC_RF_30-1G(200605) - HORIZONTAL |
| Power : AC 120V/60Hz           | Note : TX-39 Mode 1: Transmit (Tablet)    |

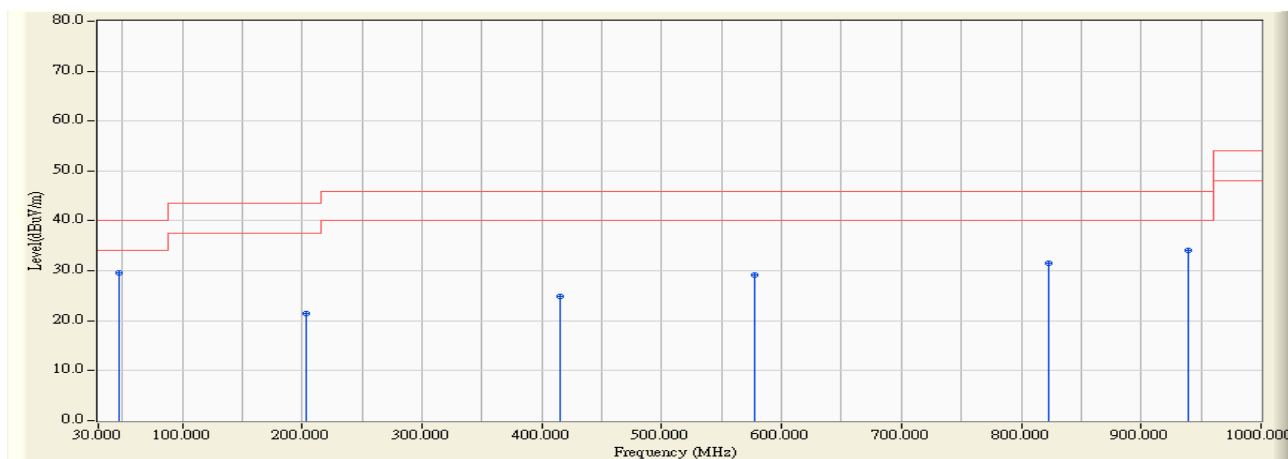


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin (dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|-------------|-------------------|---------------|
| 1 |   | 101.924            | -7.953                 | 25.991                  | 18.038                    | -25.462     | 43.500            | Quasi-Peak    |
| 2 |   | 296.313            | -4.098                 | 25.600                  | 21.503                    | -24.497     | 46.000            | Quasi-Peak    |
| 3 |   | 463.487            | 3.239                  | 24.828                  | 28.067                    | -17.933     | 46.000            | Quasi-Peak    |
| 4 |   | 576.232            | 5.111                  | 25.132                  | 30.243                    | -15.757     | 46.000            | Quasi-Peak    |
| 5 |   | 780.341            | 4.104                  | 25.473                  | 29.577                    | -16.423     | 46.000            | Quasi-Peak    |
| 6 | * | 949.459            | 3.560                  | 26.732                  | 30.292                    | -15.708     | 46.000            | Quasi-Peak    |

Note:

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

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Site : Site 1                  | Time : 2007/04/19 - 13:57               |
| Limit : FCC_CLASS_B_03M_QP     | Margin : 6                              |
| EUT :Wireless digitizer tablet | Probe : FCC_RF_30-1G(200605) - VERTICAL |
| Power : AC 120V/60Hz           | Note : TX-39 Mode 1: Transmit (Tablet)  |



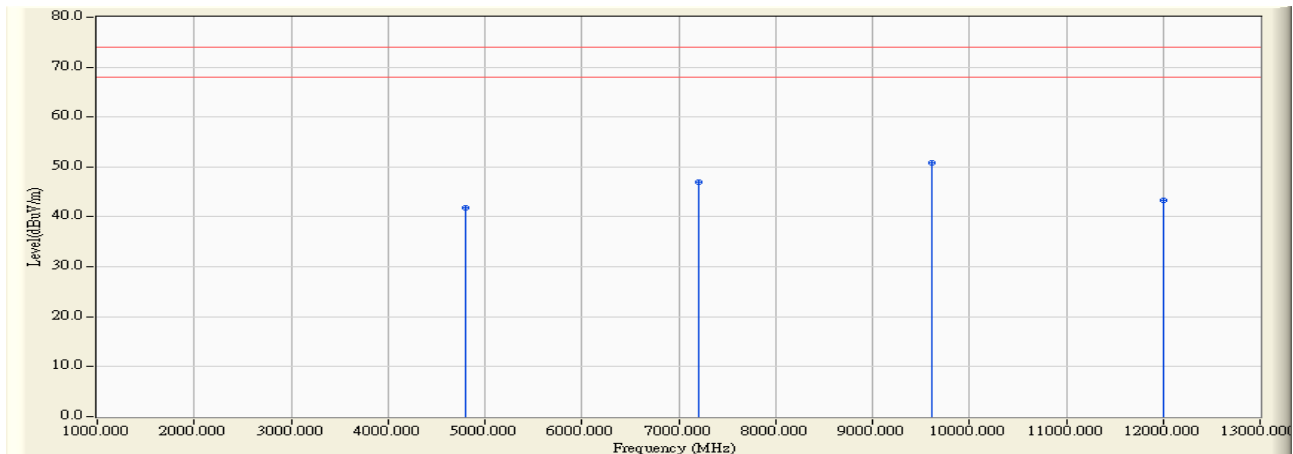
|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin (dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|-------------|-------------------|---------------|
| 1 | * | 47.495             | -1.521                 | 31.149                  | 29.628                    | -10.372     | 40.000            | Quasi-Peak    |
| 2 |   | 203.006            | -3.127                 | 24.471                  | 21.344                    | -22.156     | 43.500            | Quasi-Peak    |
| 3 |   | 414.890            | -0.338                 | 25.206                  | 24.868                    | -21.132     | 46.000            | Quasi-Peak    |
| 4 |   | 578.176            | 4.216                  | 24.850                  | 29.066                    | -16.934     | 46.000            | Quasi-Peak    |
| 5 |   | 823.106            | 5.196                  | 26.287                  | 31.482                    | -14.518     | 46.000            | Quasi-Peak    |
| 6 |   | 939.740            | 9.014                  | 25.123                  | 34.137                    | -11.863     | 46.000            | Quasi-Peak    |

Note:

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

## Harmonic & Spurious:

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Site : Site 1                      | Time : 2007/04/20 - 14:59                  |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6                                 |
| EUT :Wireless digitizer tablet     | Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL |
| Power : AC 120V/60Hz               | Note : TX-01 Mode 1: Transmit (Tablet)     |

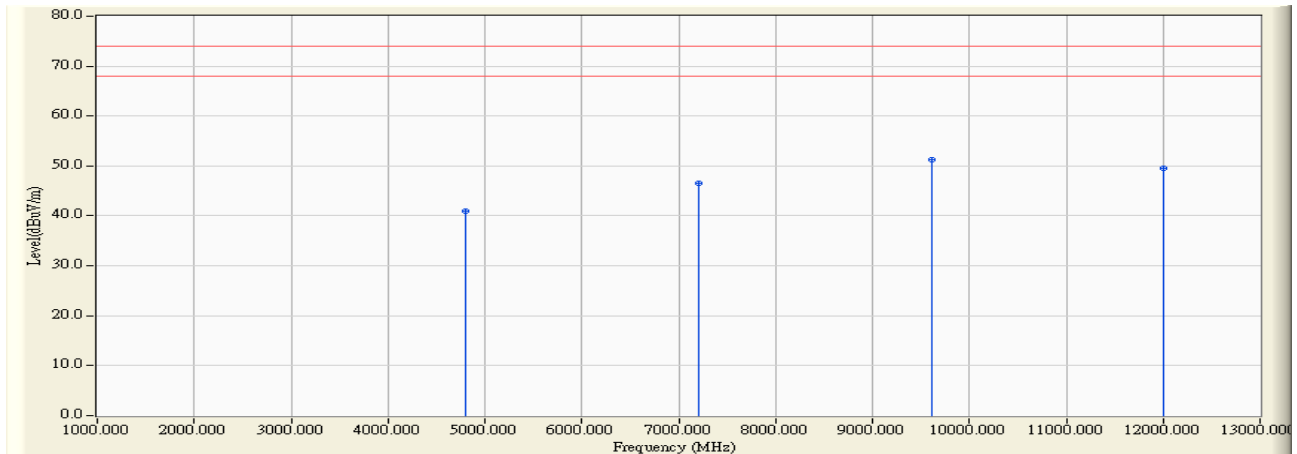


|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin (dB) | Peak<br>Limit<br>(dBuV/m) | Average<br>Limit<br>(dBuV/m) | Detector<br>Type |
|---|---|--------------------|------------------------|----------------------------|------------------------------|-------------|---------------------------|------------------------------|------------------|
| 1 |   | 4804.380           | 3.596                  | 38.120                     | 41.717                       | -32.283     | 74.000                    | 54.000                       | PEAK             |
| 2 |   | 7206.320           | 8.692                  | 38.210                     | 46.902                       | -27.098     | 74.000                    | 54.000                       | PEAK             |
| 3 | * | 9608.320           | 12.690                 | 38.140                     | 50.830                       | -23.170     | 74.000                    | 54.000                       | PEAK             |
| 4 |   | 12010.170          | 11.035                 | 32.260                     | 43.295                       | -30.705     | 74.000                    | 54.000                       | PEAK             |

### Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

|                                    |                                          |
|------------------------------------|------------------------------------------|
| Site : Site 1                      | Time : 2007/04/20 - 15:00                |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6                               |
| EUT :Wireless digitizer tablet     | Probe : FCC_RF_1G-18G(2005-3) - VERTICAL |
| Power : AC 120V/60Hz               | Note : TX-01 Mode 1: Transmit (Tablet)   |

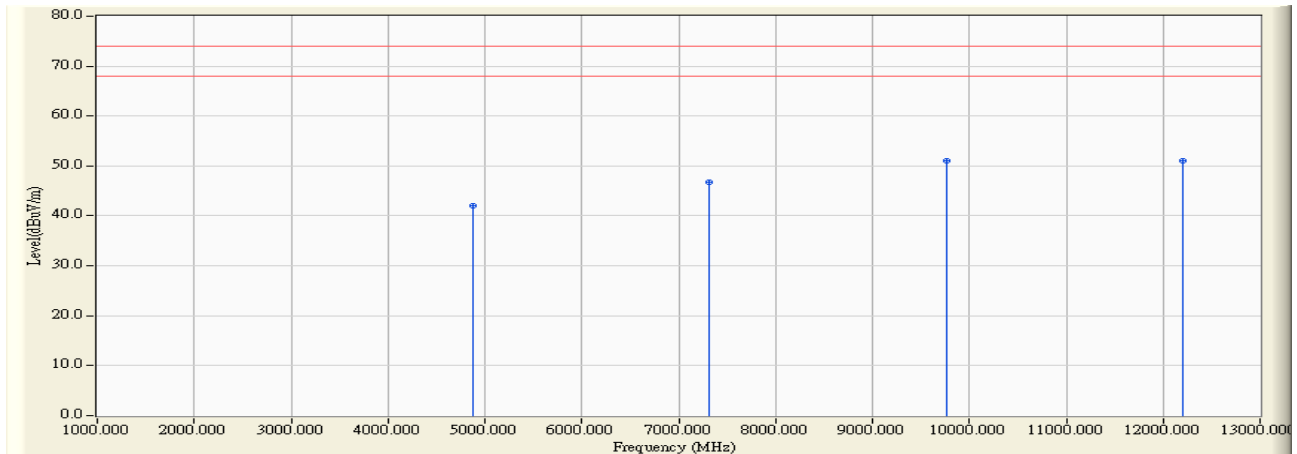


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin (dB) | Peak<br>Limit<br>(dBuV/m) | Average<br>Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|-------------|---------------------------|------------------------------|---------------|
| 1 |   | 4804.070           | 1.812                  | 39.230                  | 41.042                    | -32.958     | 74.000                    | 54.000                       | PEAK          |
| 2 |   | 7206.020           | 8.634                  | 37.990                  | 46.625                    | -27.375     | 74.000                    | 54.000                       | PEAK          |
| 3 | * | 9608.400           | 14.678                 | 36.650                  | 51.328                    | -22.672     | 74.000                    | 54.000                       | PEAK          |
| 4 |   | 12010.070          | 16.608                 | 32.990                  | 49.598                    | -24.402     | 74.000                    | 54.000                       | PEAK          |

## Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Site : Site 1                      | Time : 2007/04/20 - 15:01                  |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6                                 |
| EUT :Wireless digitizer tablet     | Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL |
| Power : AC 120V/60Hz               | Note : TX-39 Mode 1: Transmit (Tablet)     |

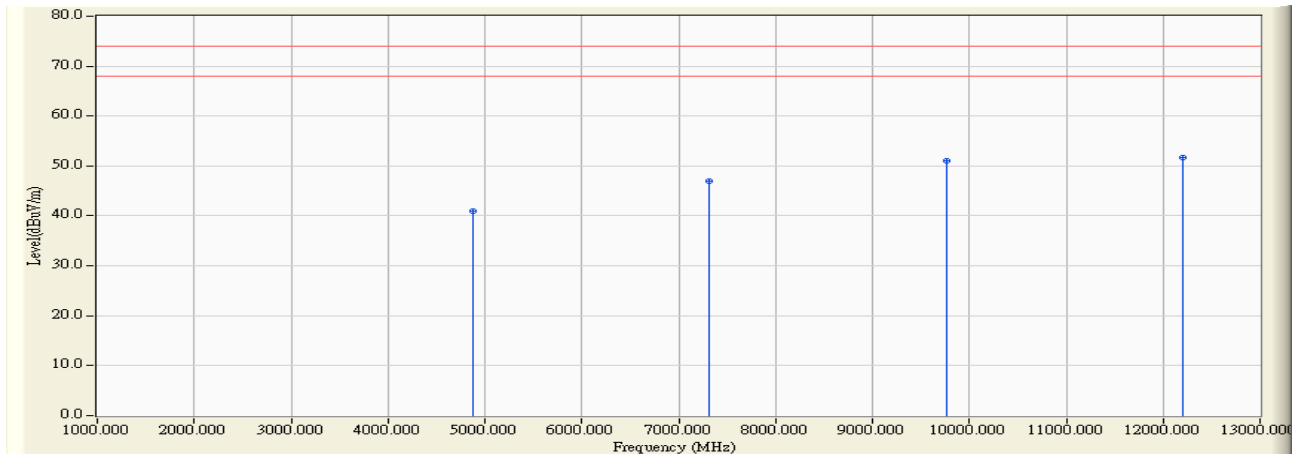


|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin (dB) | Peak<br>Limit<br>(dBuV/m) | Average<br>Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|----------------------------|------------------------------|-------------|---------------------------|------------------------------|---------------|
| 1 |   | 4879.970           | 35.786                 | 37.920                     | 42.048                       | -31.952     | 74.000                    | 54.000                       | PEAK          |
| 2 |   | 7319.870           | 40.600                 | 37.860                     | 46.715                       | -27.285     | 74.000                    | 54.000                       | PEAK          |
| 3 |   | 9760.220           | 44.239                 | 37.880                     | 51.078                       | -22.922     | 74.000                    | 54.000                       | PEAK          |
| 4 | * | 12199.970          | 48.076                 | 32.640                     | 51.114                       | -22.886     | 74.000                    | 54.000                       | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

|                                    |                                          |
|------------------------------------|------------------------------------------|
| Site : Site 1                      | Time : 2007/04/20 - 15:03                |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6                               |
| EUT :Wireless digitizer tablet     | Probe : FCC_RF_1G-18G(2005-3) - VERTICAL |
| Power : AC 120V/60Hz               | Note : TX-39 Mode 1: Transmit (Tablet)   |

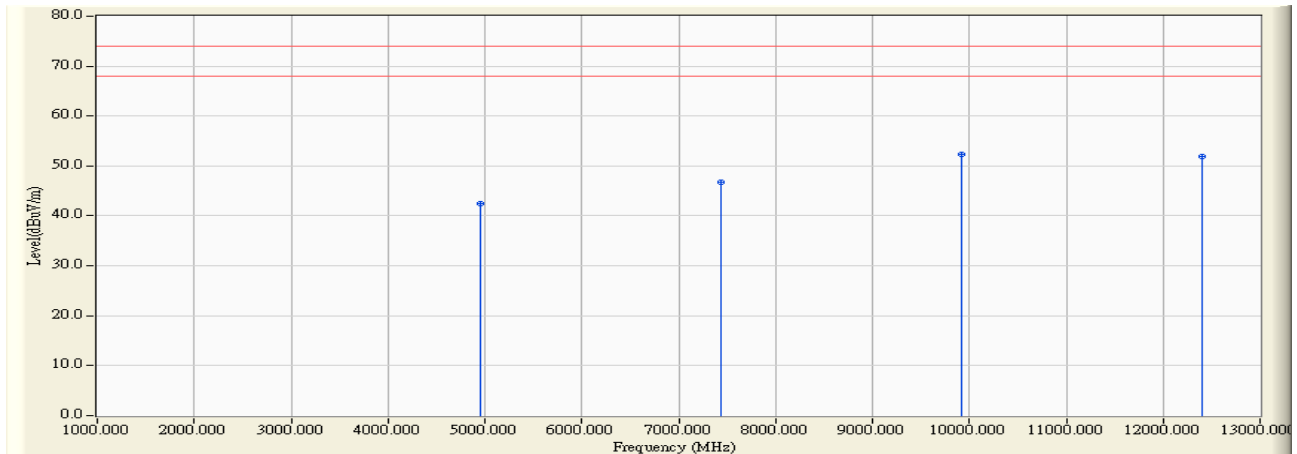


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin (dB) | Peak<br>Limit<br>(dBuV/m) | Average<br>Limit<br>(dBuV/m) | Detector<br>Type |
|---|---|--------------------|------------------------|-------------------------|------------------------------|-------------|---------------------------|------------------------------|------------------|
| 1 |   | 4880.270           | 2.488                  | 38.450                  | 40.938                       | -33.062     | 74.000                    | 54.000                       | PEAK             |
| 2 |   | 7319.820           | 8.855                  | 38.010                  | 46.865                       | -27.135     | 74.000                    | 54.000                       | PEAK             |
| 3 |   | 9760.220           | 15.197                 | 35.800                  | 50.998                       | -23.002     | 74.000                    | 54.000                       | PEAK             |
| 4 | * | 12200.120          | 19.559                 | 32.210                  | 51.770                       | -22.230     | 74.000                    | 54.000                       | PEAK             |

## Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Site : Site 1                      | Time : 2007/04/20 - 15:05                  |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6                                 |
| EUT :Wireless digitizer tablet     | Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL |
| Power : AC 120V/60Hz               | Note : TX-78 Mode 1: Transmit (Tablet)     |

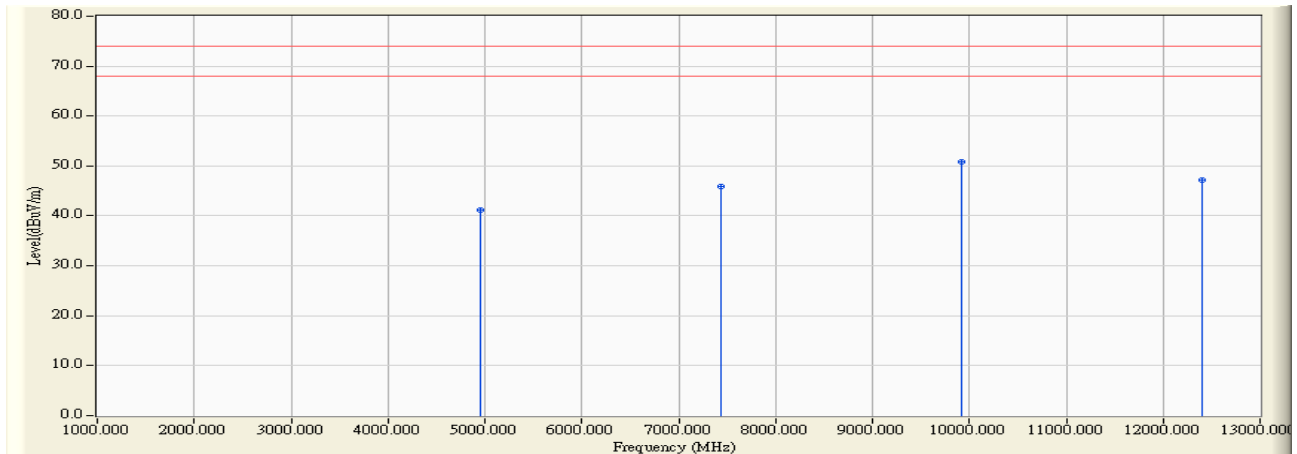


|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin (dB) | Peak<br>Limit<br>(dBuV/m) | Average<br>Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|----------------------------|------------------------------|-------------|---------------------------|------------------------------|---------------|
| 1 |   | 4958.080           | 36.011                 | 37.960                     | 42.360                       | -31.640     | 74.000                    | 54.000                       | PEAK          |
| 2 |   | 7436.910           | 40.494                 | 37.820                     | 46.833                       | -27.167     | 74.000                    | 54.000                       | PEAK          |
| 3 | * | 9916.220           | 44.893                 | 37.920                     | 52.422                       | -21.578     | 74.000                    | 54.000                       | PEAK          |
| 4 |   | 12394.870          | 49.763                 | 31.800                     | 52.010                       | -21.990     | 74.000                    | 54.000                       | PEAK          |

## Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

|                                    |                                          |
|------------------------------------|------------------------------------------|
| Site : Site 1                      | Time : 2007/04/20 - 15:06                |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6                               |
| EUT :Wireless digitizer tablet     | Probe : FCC_RF_1G-18G(2005-3) - VERTICAL |
| Power : AC 120V/60Hz               | Note : TX-78 Mode 1: Transmit (Tablet)   |



|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin (dB) | Peak<br>Limit<br>(dBuV/m) | Average<br>Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|----------------------------|------------------------------|-------------|---------------------------|------------------------------|---------------|
| 1 |   | 4958.170           | 2.915                  | 38.270                     | 41.185                       | -32.815     | 74.000                    | 54.000                       | PEAK          |
| 2 |   | 7437.070           | 9.013                  | 36.920                     | 45.933                       | -28.067     | 74.000                    | 54.000                       | PEAK          |
| 3 | * | 9916.570           | 15.339                 | 35.470                     | 50.810                       | -23.190     | 74.000                    | 54.000                       | PEAK          |
| 4 |   | 12395.070          | 16.212                 | 31.020                     | 47.232                       | -26.768     | 74.000                    | 54.000                       | PEAK          |

## Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

## 6. Band Edge

### 6.1. Test Equipment

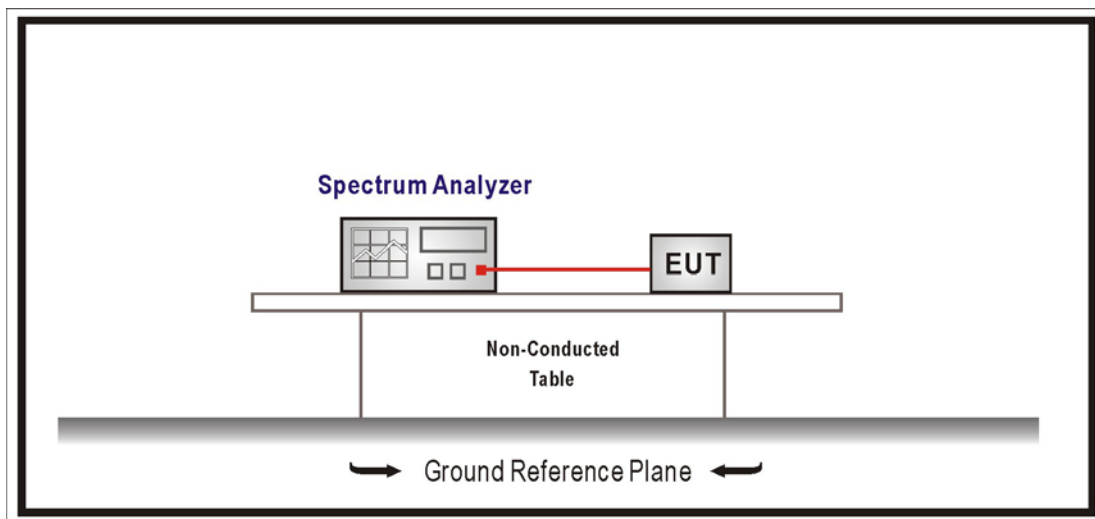
The following test equipment are used during the test:

| RF Conducted Measurement: |                   |                   |              |                              |            |
|---------------------------|-------------------|-------------------|--------------|------------------------------|------------|
| Item                      | Equipment         |                   | Manufacturer | Model No. / Serial No.       | Last Cal.  |
| 1                         | Spectrum Analyzer |                   | R & S        | FSP / 100561                 | Mar., 2007 |
| 2                         | No.1 OATS         |                   |              |                              | Sep., 2006 |
| RF Radiated Measurement:  |                   |                   |              |                              |            |
| Item                      | Equipment         |                   | Manufacturer | Model No. / Serial No.       | Last Cal.  |
| 1                         | X                 | Spectrum Analyzer | R & S        | FSP40 / 100005               | Aug., 2006 |
| 2                         | X                 | Pre-Amplifier     | HP           | 8449B / 3008A01123           | Feb., 2007 |
| 3                         |                   | Loop Antenna      | R & S        | HFH2-Z2 / 833799/004         | Sep., 2006 |
| 4                         |                   | BiconiLog Antenna | Schwarzbeck  | VULB 9166 / 1061             | Sep., 2006 |
| 5                         |                   | Bilog Antenna     | Chase        | CBL6112B / 2455              | Sep., 2006 |
| 6                         | X                 | Horn Antenna      | Schwarzbeck  | BBHA 9120D /<br>BBHA9120D312 | Sep., 2006 |
| 7                         | No.1 OATS         |                   |              |                              | Sep., 2006 |

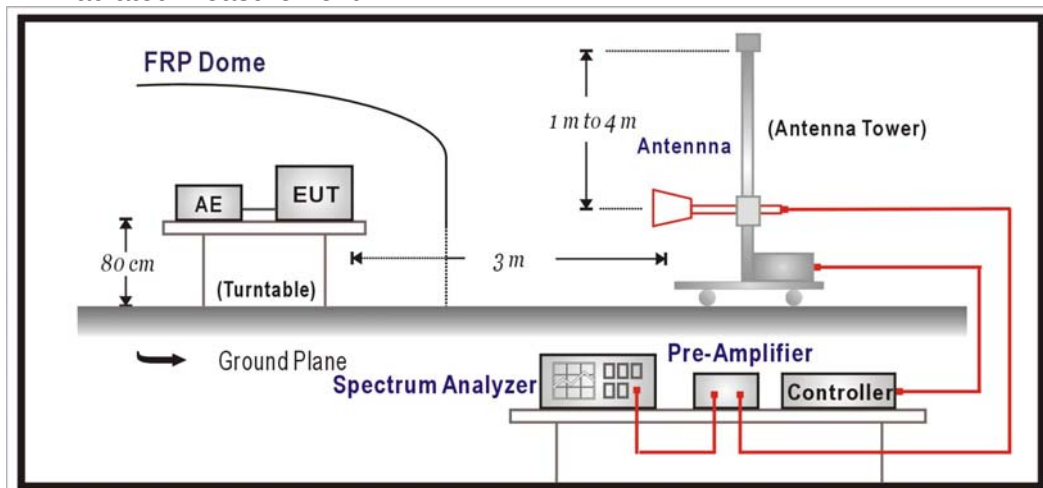
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.  
2. Mark "X" test instruments are used to measure the final test results.

## 6.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



## 6.3. Limits

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

#### 6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

#### 6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

#### 6.6. Uncertainty

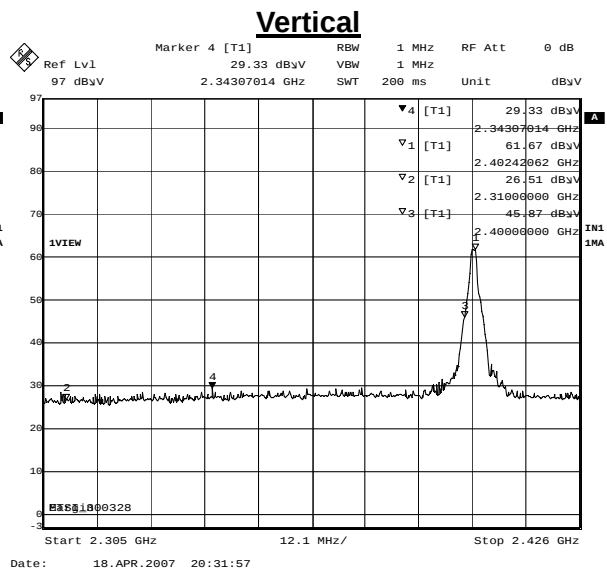
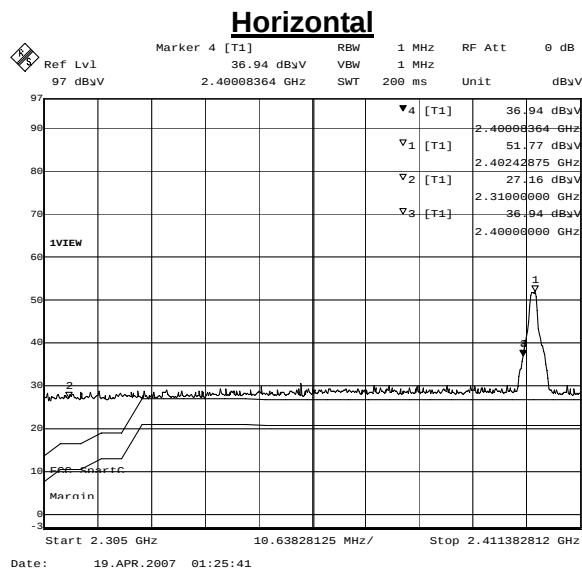
The measurement uncertainty  
 Conducted is defined as  $\pm 1.27\text{dB}$   
 Radiated is defined as  $\pm 3.9\text{dB}$

## 6.7. Test Result

|              |                           |           |           |
|--------------|---------------------------|-----------|-----------|
| Product      | Wireless digitizer tablet |           |           |
| Test Item    | Band Edge                 |           |           |
| Test Mode    | Mode 1: Transmit (Tablet) |           |           |
| Date of Test | 2006/04/19                | Test Site | No.1 OATS |

### RF Radiated Measurement: (Peak)

| Channel No.   | Frequency (MHz) | Reading Level (dBuV) | Probe Factor (dB/m) | Cable Loss (dB) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
|---------------|-----------------|----------------------|---------------------|-----------------|-------------------------|---------------------|------------------------|--------|
| 1(Horizontal) | 2400.800        | 36.940               | 24.508              | 4.514           | 65.961                  | 74                  | 54                     | Pass   |
| 1(Vertical)   | 2400.000        | 45.870               | 22.908              | 4.514           | 73.291                  | 74                  | 54                     | Pass   |



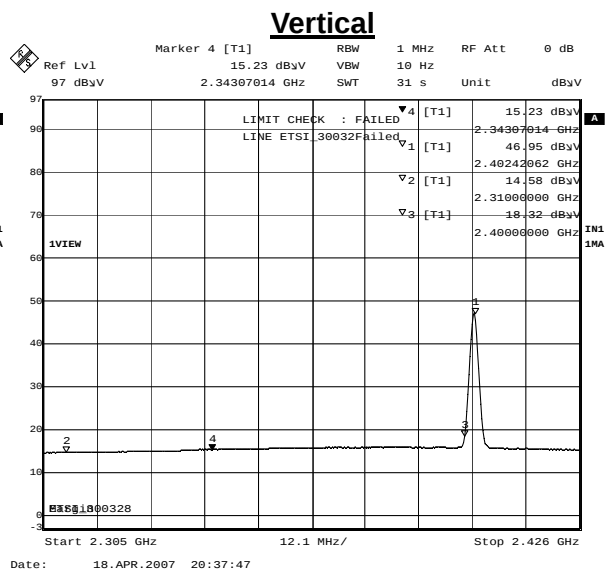
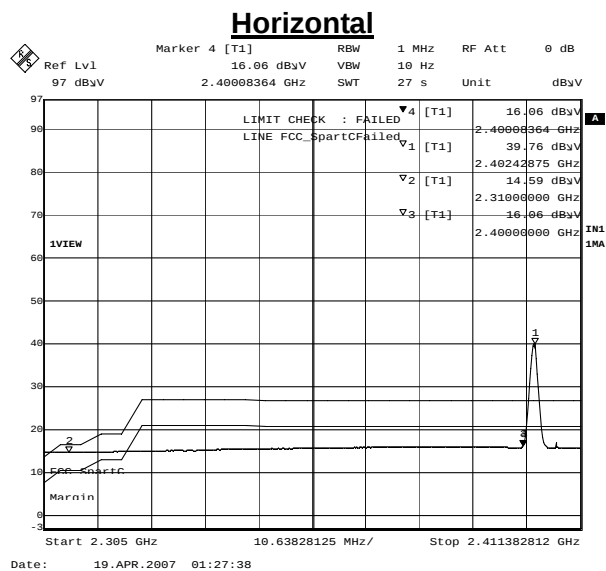
Note: 1.For peak measurements above 1GHz, set RBW=1MHz, VBW=1MHz

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

|              |                           |           |           |
|--------------|---------------------------|-----------|-----------|
| Product      | Wireless digitizer tablet |           |           |
| Test Item    | Band Edge                 |           |           |
| Test Mode    | Mode 1: Transmit (Tablet) |           |           |
| Date of Test | 2006/04/19                | Test Site | No.1 OATS |

### RF Radiated Measurement: (Average)

| Channel No.   | Frequency (MHz) | Reading Level (dBuV) | Probe Factor (dB/m) | Cable Loss (dB) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
|---------------|-----------------|----------------------|---------------------|-----------------|-------------------------|---------------------|------------------------|--------|
| 1(Horizontal) | 2400.080        | 16.060               | 24.508              | 4.514           | 45.081                  | 74                  | 54                     | Pass   |
| 1(Vertical)   | 2400.000        | 18.320               | 22.908              | 4.514           | 45.741                  | 74                  | 54                     | Pass   |



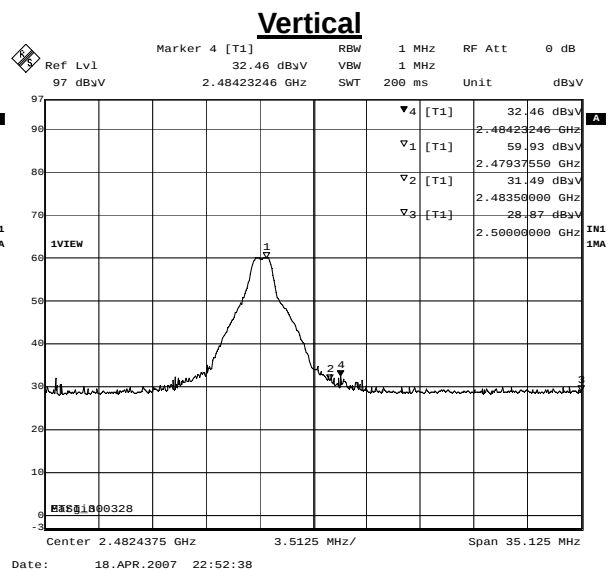
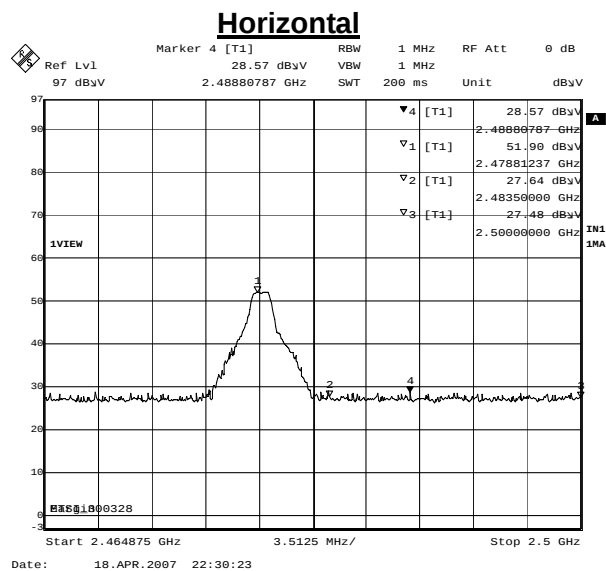
Note: 1.For average measurements above 1GHz, set RBW=1MHz, VBW=10Hz

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

|              |                           |           |           |
|--------------|---------------------------|-----------|-----------|
| Product      | Wireless digitizer tablet |           |           |
| Test Item    | Band Edge                 |           |           |
| Test Mode    | Mode 1: Transmit (Tablet) |           |           |
| Date of Test | 2006/04/19                | Test Site | No.1 OATS |

### RF Radiated Measurement: (Peak)

| Channel No.    | Frequency (MHz) | Reading Level (dBuV) | Probe Factor (dB/m) | Cable Loss (dB) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
|----------------|-----------------|----------------------|---------------------|-----------------|-------------------------|---------------------|------------------------|--------|
| 78(Horizontal) | 2488.800        | 28.570               | 24.733              | 4.576           | 57.879                  | 74                  | 54                     | Pass   |
| 78(Vertical)   | 2484.230        | 32.460               | 23.122              | 4.573           | 60.155                  | 74                  | 54                     | Pass   |



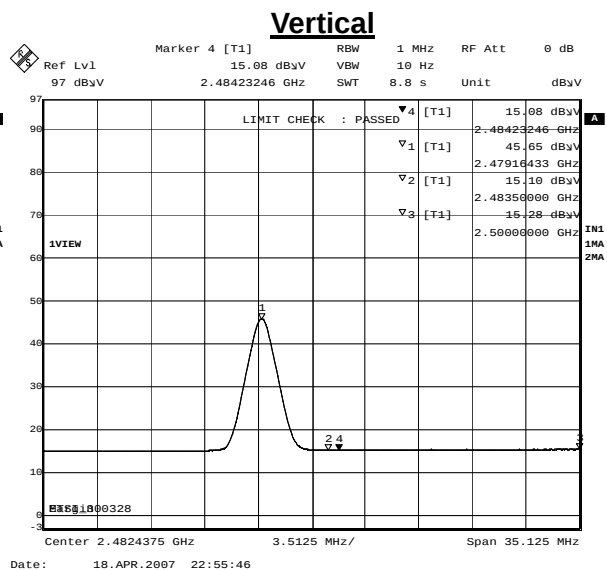
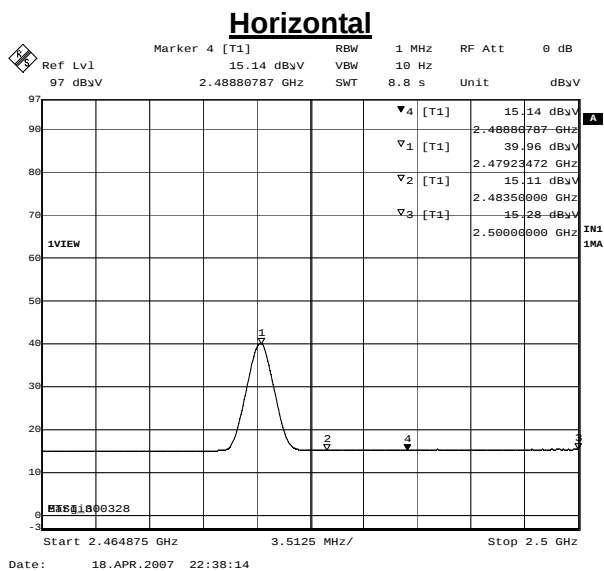
Note: 1.For peak measurements above 1GHz, set RBW=1MHz, VBW=1MHz

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

|              |                           |           |           |
|--------------|---------------------------|-----------|-----------|
| Product      | Wireless digitizer tablet |           |           |
| Test Item    | Band Edge                 |           |           |
| Test Mode    | Mode 1: Transmit (Tablet) |           |           |
| Date of Test | 2006/04/19                | Test Site | No.1 OATS |

### RF Radiated Measurement: (Average)

| Channel No.    | Frequency (MHz) | Reading Level (dBuV) | Probe Factor (dB/m) | Cable Loss (dB) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
|----------------|-----------------|----------------------|---------------------|-----------------|-------------------------|---------------------|------------------------|--------|
| 78(Horizontal) | 2488.800        | 15.140               | 24.733              | 4.576           | 44.449                  | 74                  | 54                     | Pass   |
| 78(Vertical)   | 2484.230        | 15.080               | 23.122              | 4.573           | 42.775                  | 74                  | 54                     | Pass   |



Note: 1.For average measurements above 1GHz, set RBW=1MHz, VBW=10Hz

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

## 7. Occupied Bandwidth

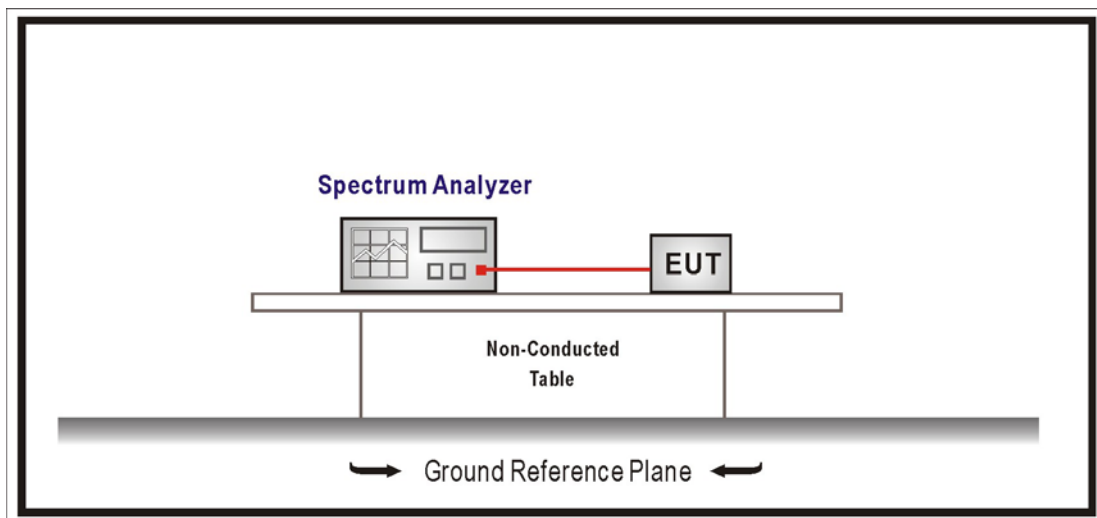
### 7.1. Test Equipment

The following test equipment are used during the test:

| Item | Equipment         | Manufacturer | Model No. / Serial No. | Last Cal.  |
|------|-------------------|--------------|------------------------|------------|
| 1    | Spectrum Analyzer | R & S        | FSP / 100561           | Mar., 2007 |
| 2    | No.1 OATS         |              |                        | Sep., 2006 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

### 7.2. Test Setup



### 7.3. Test Procedures

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

### 7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

### 7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

### 7.6. Uncertainty

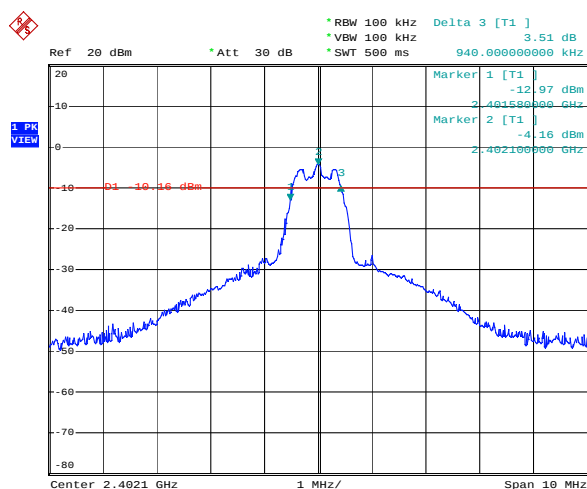
The measurement uncertainty is defined as  $\pm 50\text{kHz}$

## 7.7. Test Result

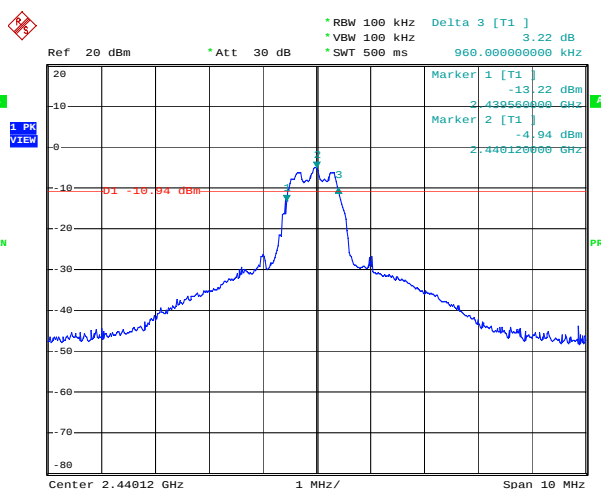
|              |                           |           |           |
|--------------|---------------------------|-----------|-----------|
| Product      | Wireless digitizer tablet |           |           |
| Test Item    | Occupied Bandwidth        |           |           |
| Test Mode    | Mode 1: Transmit (Tablet) |           |           |
| Date of Test | 2007/04/12                | Test Site | No.1 OATS |

| Channel No. | Frequency (MHz) | Measure Value (kHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 01          | 2402            | 940                 | $\geq 500$  | Pass   |
| 39          | 2440            | 960                 | $\geq 500$  | Pass   |
| 78          | 2479            | 980                 | $\geq 500$  | Pass   |

### Channel 01



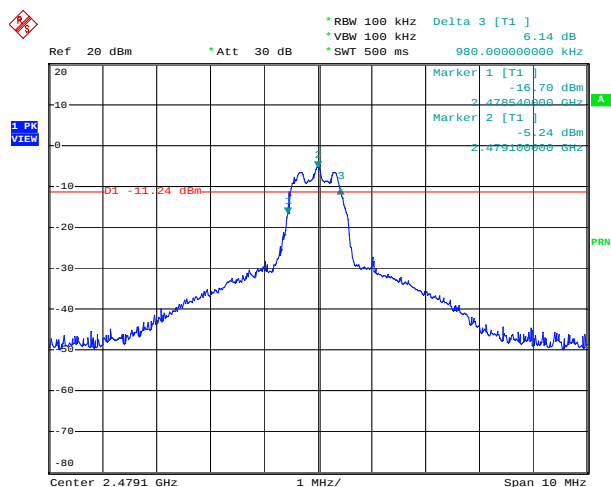
### Channel 39



Date: 1.JAN.2000 13:17:33

Date: 1.JAN.2000 13:14:49

### Channel 78



Date: 1.JAN.2000 13:10:28

## 8. Power Density

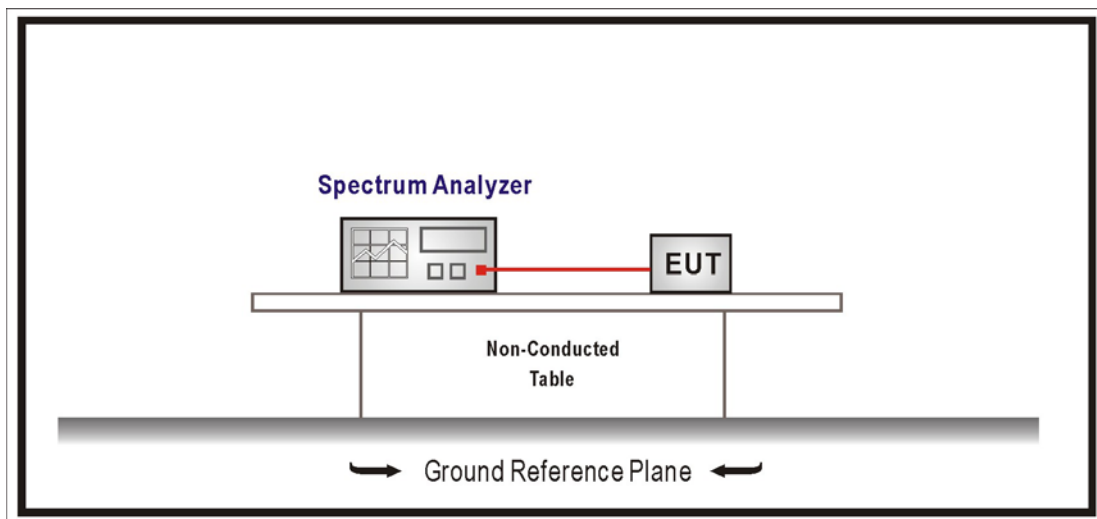
### 8.1. Test Equipment

The following test equipment are used during the test:

| Item | Equipment         | Manufacturer | Model No. / Serial No. | Last Cal.  |
|------|-------------------|--------------|------------------------|------------|
| 1    | Spectrum Analyzer | R & S        | FSP / 100561           | Mar., 2007 |
| 2    | No.1 OATS         |              |                        | Sep., 2006 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

### 8.2. Test Setup



### 8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

### 8.4. Test Procedures

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.  
Set RBW= 3 kHz, Set VBW  $\geq$  9 kHz, Sweep time=Auto, Set detector=Peak detector

### 8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2007

### 8.6. Uncertainty

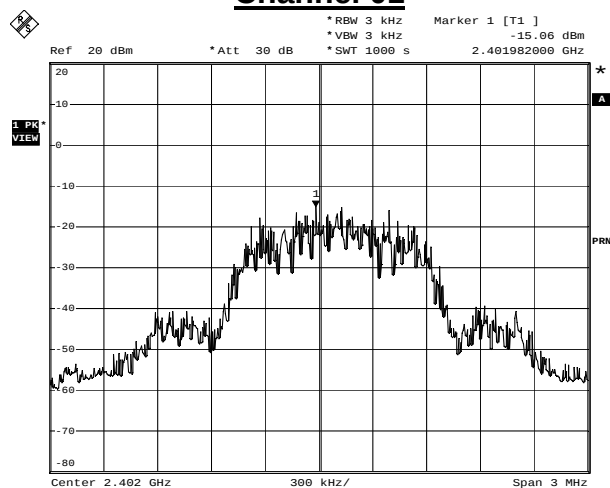
The measurement uncertainty is defined as  $\pm 1.27$ dB.

## 8.7. Test Result

|              |                           |           |           |
|--------------|---------------------------|-----------|-----------|
| Product      | Wireless digitizer tablet |           |           |
| Test Item    | Power Density             |           |           |
| Test Mode    | Mode 1: Transmit (Tablet) |           |           |
| Date of Test | 2007/04/12                | Test Site | No.1 OATS |

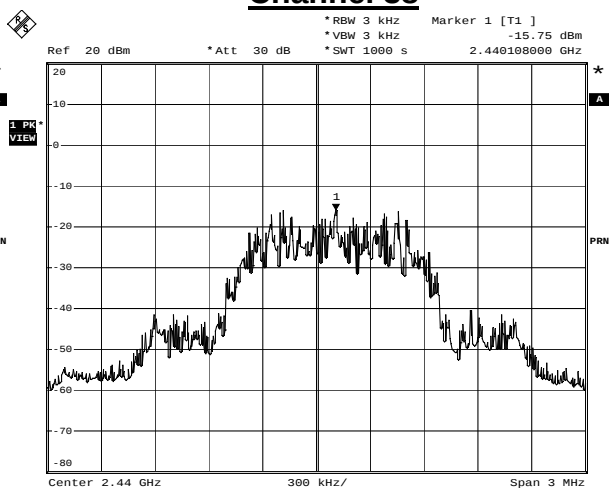
| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 01          | 2402            | -15.06              | $\leq 8$    | Pass   |
| 39          | 2440            | -15.75              | $\leq 8$    | Pass   |
| 78          | 2479            | -16.58              | $\leq 8$    | Pass   |

### Channel 01



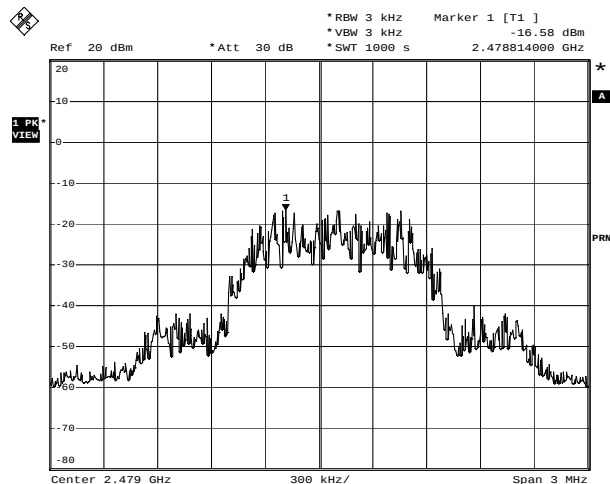
Date: 12.APR.2007 15:53:20

### Channel 38



Date: 12.APR.2007 15:41:19

### Channel 78



Date: 12.APR.2007 15:48:08