



Spectrum Research &  
Testing Lab., Inc.  
No. 101-10, Ling 8,  
Shan-Tong Li; Chung-Li  
City, Taoyuan, Taiwan

## TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page: 1 of 44  
Date: Sep. 11, 2006

Product Name: Transceiver  
Model Number: 95025;MF001  
Applicant: Mayflash Ltd.  
5/F, Block A3, HuaFeng KeJi Yuan, 82 Zone, Baoan  
Shenzhen, China  
Date of Receipt: Aug. 29, 2006  
Finished date of Test: Sep. 11, 2006  
Applicable Standards: 47 CFR Part 15, Subpart C  
47 CFR Part 15, Subpart B  
ANSI C63.4: 2003

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By :

Mao Feng Hsu, Date: Sep. 11, 2006  
( Mao Feng Hsu )

Approved By :

J. H., Date: Sep. 11, 2006  
( Johnson Ho, Director )

NVLAP®

Lab Code: 200099-0

|  |                      |   |
|--|----------------------|---|
|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/> No. 101-10, Ling 8,<br/> Shan-Tong Li, Chung-Li<br/> City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:2 of 44<br>Date: Sep. 11, 2006 |
|--|----------------------|---|

## TABLE OF CONTENTS

|  |    |
|--|----|
| 1. DOCUMENT POLICY AND TEST STATEMENT .....      | 4  |
| 1.1 DOCUMENT POLICY .....                        | 4  |
| 1.2 TEST STATEMENT .....                         | 4  |
| 1.3 EUT MODIFICATION .....                       | 4  |
| 2. DESCRIPTION OF EUT AND TEST MODE .....        | 5  |
| 2.1 GENERAL DESCRIPTION OF EUT .....             | 5  |
| 2.2 DESCRIPTION OF SUPPORT UNIT .....            | 6  |
| 2.3 DESCRIPTION OF TEST MODE .....               | 6  |
| 3. DESCRIPTION OF APPLIED STANDARDS .....        | 7  |
| 4. TECHNICAL CHARACTERISTICS TEST .....          | 8  |
| 4.1 20DB BANDWIDTH.....                          | 8  |
| 4.1.1 LIMIT .....                                | 8  |
| 4.1.2 TEST EQUIPMENT .....                       | 8  |
| 4.1.3 TEST SET-UP .....                          | 8  |
| 4.1.4 TEST PROCEDURE .....                       | 8  |
| 4.1.5 EUT OPERATING CONDITION .....              | 8  |
| 4.1.6 TEST RESULT .....                          | 9  |
| 4.2 PEAK POWER TEST .....                        | 13 |
| 4.2.1 LIMIT .....                                | 13 |
| 4.2.2 TEST EQUIPMENT .....                       | 13 |
| 4.2.3 TEST SET-UP .....                          | 14 |
| 4.2.4 TEST PROCEDURE .....                       | 14 |
| 4.2.5 EUT OPERATING CONDITION .....              | 14 |
| 4.2.6 TEST RESULT .....                          | 15 |
| 4.3 BAND EDGE TEST .....                         | 19 |
| 4.3.1 LIMIT .....                                | 19 |
| 4.3.2 TEST EQUIPMENT .....                       | 20 |
| 4.3.3 TEST SET-UP .....                          | 21 |
| 4.3.4 TEST PROCEDURE .....                       | 22 |
| 4.3.5 EUT OPERATING CONDITION .....              | 22 |
| 4.3.6 TEST RESULT .....                          | 22 |
| 4.4 SPURIOUS RADIATED EMISSION TEST .....        | 25 |
| 4.4.1 LIMIT .....                                | 25 |
| 4.4.2 TEST EQUIPMENT .....                       | 26 |
| 4.4.3 TEST SET-UP .....                          | 27 |
| 4.4.4 TEST PROCEDURE .....                       | 29 |
| 4.4.5 EUT OPERATING CONDITION .....              | 29 |
| 4.4.6 TEST RESULT .....                          | 30 |
| 4.5 CONDUCTED EMISSION TEST FOR POWER PORT ..... | 37 |
| 4.5.1 CONDUCTED EMISSION LIMIT .....             | 37 |
| 4.5.2 TEST EQUIPMENT .....                       | 37 |
| 4.5.3 TEST SETUP .....                           | 38 |
| 4.5.4 TEST PROCEDURE .....                       | 38 |



**Spectrum Research &  
Testing Lab., Inc.**  
No. 101-10, Ling 8,  
Shan-Tong Li, Chung-Li  
City, Taoyuan, Taiwan

# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:3 of 44  
Date: Sep. 11, 2006

|                               |    |
|-------------------------------|----|
| 4.5.5 TEST RESULT .....       | 39 |
| 5. ANTENNA APPLICATION .....  | 40 |
| 5.1 ANTENNA REQUIREMENT ..... | 40 |
| 5.2 RESULT .....              | 40 |
| 6. PHOTOS OF TESTING.....     | 41 |
| 7. TERMS OF ABBREVIATION..... | 44 |

|   |                    |   |
|---|--------------------|---|
|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <b>TEST REPORT</b> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:4 of 44<br>Date: Sep. 11, 2006 |
|---|--------------------|---|

## 1. DOCUMENT POLICY AND TEST STATEMENT

### 1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.

### 1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 VAC/60 Hz, was used during the test.
- DC 4.5V from battery was used during the test.

### 1.3 EUT MODIFICATION

- No modification in SRT Lab.

|   |                      |   |
|---|----------------------|---|
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|---|----------------------|---|

## 2. DESCRIPTION OF EUT AND TEST MODE

### 2.1 GENERAL DESCRIPTION OF EUT

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>PRODUCT</b>                  | Transceiver                     |
| <b>MODEL NO.</b>                | 95025;MF001                     |
| <b>POWER SUPPLY</b>             | Receiver: DC 3.3V               |
| <b>FREQUENCY BAND</b>           | 2.400~2.4835GHz                 |
| <b>CARRIER FREQUENCY</b>        | 2.406GHz~2.478GHz               |
| <b>NUMBER OF CHANNEL</b>        | 32                              |
| <b>CHANNEL SPACING</b>          | 2MHz                            |
| <b>RATED RF OUTPUT POWER</b>    | 0dBm (1mW)                      |
| <b>I.F. &amp; L.O.</b>          | I.F.: 2MHz, L.O.: 1604-1652 MHz |
| <b>MODULATION TYPE</b>          | FSK                             |
| <b>BIT RATE OF TRANSMISSION</b> | 250Kbps                         |
| <b>DUTY CYCLE</b>               | 2%                              |
| <b>ANTENNA TYPE</b>             | PCB Antenna                     |
| <b>ANTENNA GAIN</b>             | Max 2 dBi                       |
| <b>OPERATING TEMPERATURE</b>    | -10-70°C                        |
| <b>CHANNEL BANDWIDTH</b>        | 5.12MHz                         |

**NOTE :**

The EUT has two model numbers, one is transmitter part, and the other is receiver part.

|   |                      |  |
|---|----------------------|--|
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|---|----------------------|--|

## 2.2 DESCRIPTION OF SUPPORT UNIT

The transmitter part of EUT was tested with a Game system(Play station 2) and configured by the requirement of ANSI C63.4. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

| NO | DEVICE         | BRAND | MODEL #    | FCC ID/DOC | CABLE  |
|----|----------------|-------|------------|------------|--|
| 1  | PLAY STATION 2 | SONY  | SCPH-15000 | N/A        | 1.5m unshielded power cord<br>1.5m unshielded data cable |
| 2  | TV             | TECO  | TL2009FM   | N/A        | 1.5m shielded data cable                                 |

**NOTE :**

For the actual test configuration, please refer to the photos of testing.

## 2.3 DESCRIPTION OF TEST MODE

32 channels are provided by EUT. The 3 channels of lower, medium and higher were chosen for test..

| Channel | Frequency(MHz) |
|---------|----------------|
| 0       | 2406           |
| 17      | 2440           |
| 31      | 2478           |

**NOTE :**

1. Below 1 GHz, the channel 0, 17 and 31 were pre-tested in chamber. The channel 31, worst case one, was chosen for radiated emission test.
2. Above 1 GHz, the channel 0, 17 and 31 were tested individually.

|   |                    |   |
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|---|--------------------|---|

### **3. DESCRIPTION OF APPLIED STANDARDS**

The EUT is a kind of wireless product and to be connected with a Game system for normal use. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C

47 CFR Part 15, Subpart B

ANSI C63.4: 2003

Public DA00-705 (March 2000)

All tests have been performed and recorded as the above standards.

|   |                      |   |
|---|----------------------|---|
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|---|----------------------|---|

## 4. TECHNICAL CHARACTERISTICS TEST

### 4.1 20dB Bandwidth

#### 4.1.1 LIMIT

| Frequency Range (MHz) | Limit(kHz)                  |      |       |       |    |
|-----------------------|-----------------------------|------|-------|-------|----|
|                       | Quantity of Hopping Channel | 50   | 25    | 15    | 75 |
| 902-928               | <250                        | >250 | NA    | NA    |    |
| 2400-2483.5           | NA                          | NA   | >1000 | <1000 |    |

#### 4.1.2 TEST EQUIPMENT

The following test equipment was used during the test:

| EQUIPMENT/FACILITIES | SPECIFICATIONS | MANUFACTURER    | MODEL#/SERIAL#      | DUE DATE OF CAL. & CAL. CENTER |
|----------------------|----------------|-----------------|---------------------|--------------------------------|
| SPECTRUM             | 9kHz-7GHz      | ROHDE & SCHWARZ | FSP7/<br>839511/010 | APR. 2007<br>R&S               |

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

#### 4.1.3 TEST SET-UP



The EUT was connected to a spectrum through a  $50\Omega$  RF cable.

#### 4.1.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.  
Printed out the test result from the spectrum by hard copy function.

#### 4.1.5 EUT OPERATING CONDITION

1. Plug the receiver to your PS2 game console first, and power on your console. The LED light will be shining and blinking now, and the receiver starts to search a suited wireless guitar controller.
2. The switch of the guitar controller should be pushed to “ON” now.



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City, Taoyuan, Taiwan

# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:9 of 44  
Date: Sep. 11, 2006

## 4.1.6 TEST RESULT

|                    |      |              |               |
|--------------------|------|--------------|---------------|
| Temperature:       | 24°C | Humidity:    | 55%RH         |
| Spectrum Detector: | PK   | Tested by:   | Mao Feng Hsu  |
| Test Result:       | PASS | Tested Date: | Sep. 01, 2006 |
| Receiver:TX        |      |              |               |

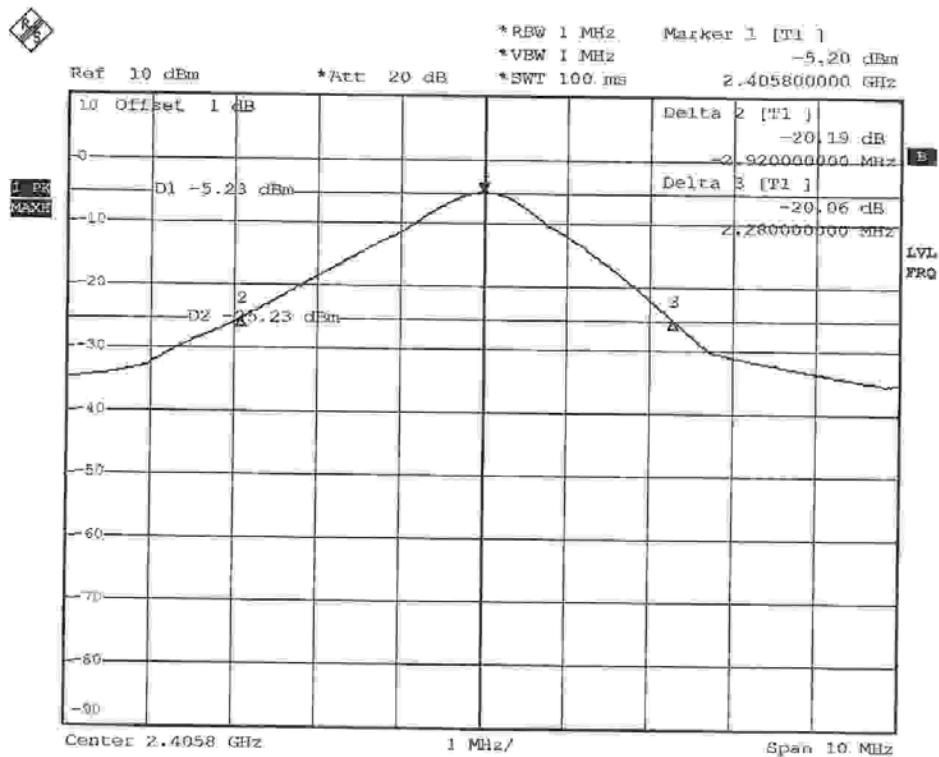
| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | 20dB DOWN BW (kHz) |
|----------------|-------------------------|--------------------|
| 0              | 2406                    | 5200               |
| 17             | 2440                    | 5200               |
| 31             | 2478                    | 5120               |



# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:10 of 44  
Date: Sep. 11, 2006

*Receiver TX*



Date: 1.SEP.2006 12:23:42

*CHO, 20dB Bandwidth = 5.2 MHz*

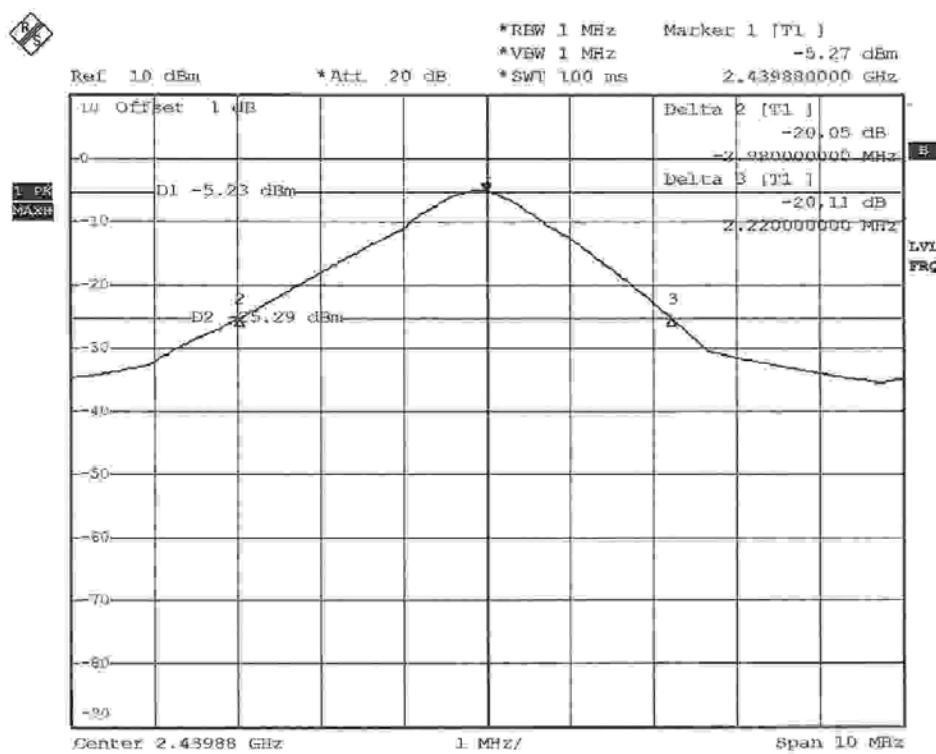
*M.F. Hsu*



# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:11 of 44  
Date: Sep. 11, 2006

*Receiver : TX*



Date: 1.SEP.2006 12:31:45

*CH17. 20dB bandwidth = 5.2 MHz*

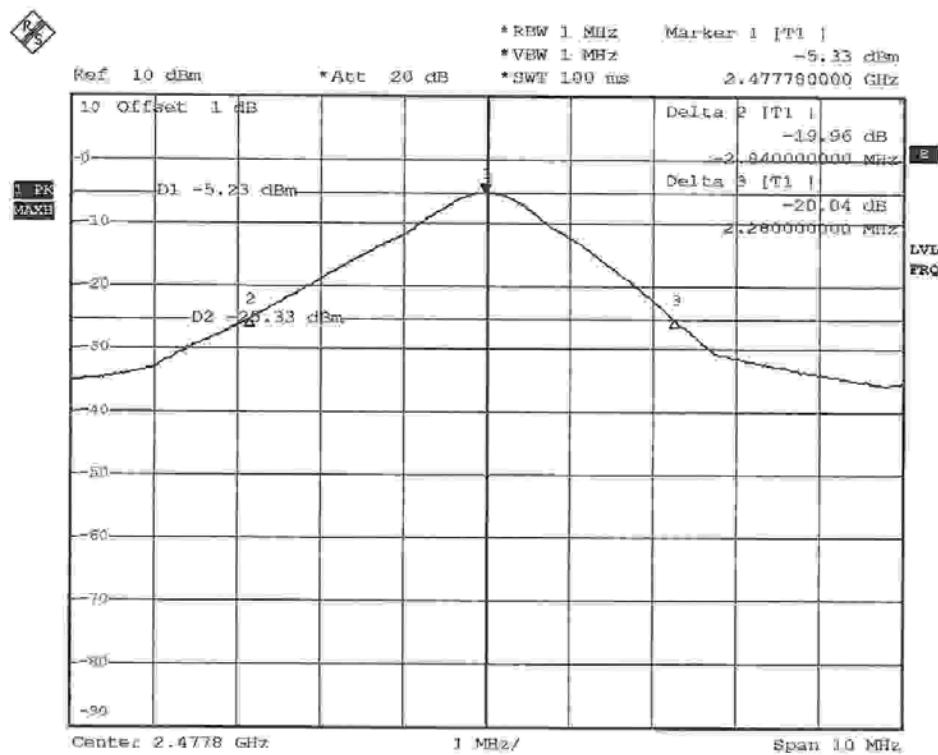
*M.F. Hsu*



# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:12 of 44  
Date: Sep. 11, 2006

Receiver: TX



Date: 1.SEP.2006 12:33:59

CH3/ 20dB bandwidth = 5.12 MHz

M.F. Hsu

|   |                      |  |
|---|----------------------|--|
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|---|----------------------|--|

## 4.2 PEAK POWER TEST

### 4.2.1 LIMIT

FCC Part15, Subpart C Section 15.247.

| FREQUENCY RANGE (MHz) | Quantity of Hopping Channel | LIMIT (W)    |              |          |          |
|-----------------------|-----------------------------|--------------|--------------|----------|----------|
|                       |                             | 50           | 25           | 15       | 75       |
| 902-928               | 1(30dBm)                    | 0.125(21dBm) | NA           | NA       | NA       |
| 2400-2483.5           | NA                          | NA           | 0.125(21dBm) | 1(30dBm) | NA       |
| 5725-5850             | NA                          | NA           | NA           | NA       | 1(30dBm) |

### 4.2.2 TEST EQUIPMENT

The following test equipment was used during the test :

| EQUIPMENT/ FACILITIES | SPECIFICATIONS                               | MANUFACTURER    | MODEL#/ SERIAL#     | DUE DATE OF CAL. & CAL. CENTER |
|-----------------------|--|-----------------|---------------------|--------------------------------|
| SPECTRUM              | 9kHz-7GHz                                    | ROHDE & SCHWARZ | FSP7/<br>839511/010 | APR. 2007<br>R&S               |
| POWER METER           | N/A  | BOONTON         | 4232A/<br>29001     | MAY 2007<br>ETC                |
| POWER SENSOR          | DC-18GHz<br>0.3 $\mu$ W-100mW<br>50 $\Omega$ | BOONTON         | 51011-EMC/<br>31184 | JUN. 2007<br>ETC               |

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



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City, Taoyuan, Taiwan

# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:14 of 44  
Date: Sep. 11, 2006

## 4.2.3 TEST SET-UP



The EUT was connected to a spectrum through a  $50\Omega$  RF cable.

## 4.2.4 TEST PROCEDURE

The EUT was operating in hopping mode or could control its channel.  
Printed out the test result from the spectrum by hard copy function.  
Recorded the read value of the power meter.

## 4.2.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

|   |                      |  |
|---|----------------------|--|
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|---|----------------------|--|

#### 4.2.6 TEST RESULT

|                    |      |              |               |
|--------------------|------|--------------|---------------|
| Temperature:       | 24°C | Humidity:    | 55%RH         |
| Spectrum Detector: | PK   | Tested by:   | Mao Feng Hsu  |
| Test Result:       | PASS | Tested Date: | Sep. 01, 2006 |
| Receiver:TX        |      |              |               |

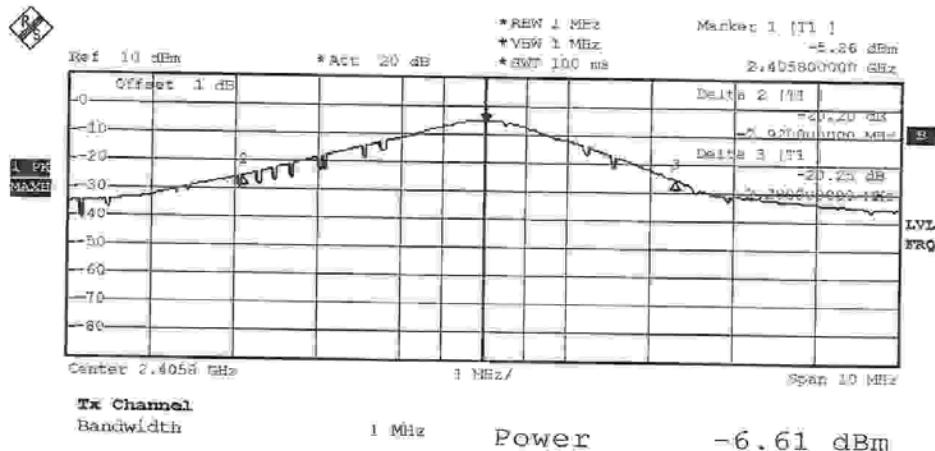
| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) |
|----------------|-------------------------|-------------------------|------------------------|
| 0              | 2406.0000               | -6.61                   | 21                     |
| 17             | 2440.0000               | -6.53                   | 21                     |
| 31             | 2478.0000               | -6.63                   | 21                     |



# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:16 of 44  
Date: Sep. 11, 2006

Receiver : IX



CH0. 20dB bandwidth = 5.2 MHz

*Maw, Fong Hsu*

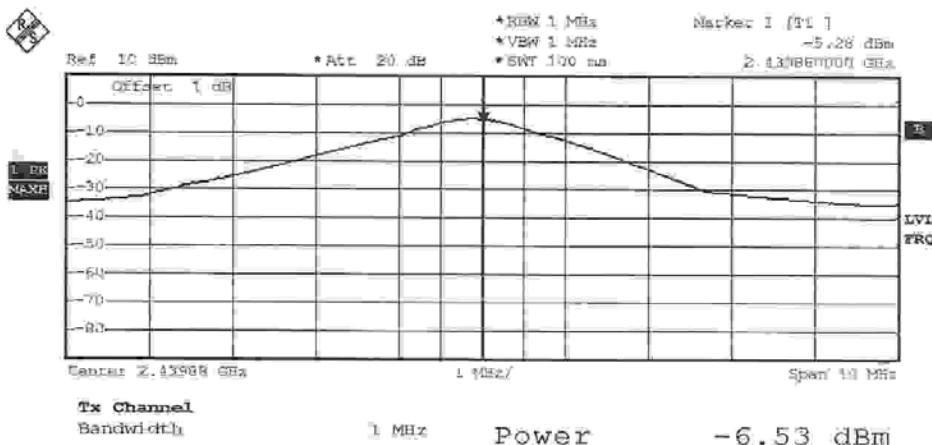
Date: 1, SEP, 2006 12:24:35



# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:17 of 44  
Date: Sep. 11, 2006

Receiver : TX



CH17 20dB bandwidth=5.2MHz

M.F. Hsu

Date: 1 SEP. 2006 12:27:49

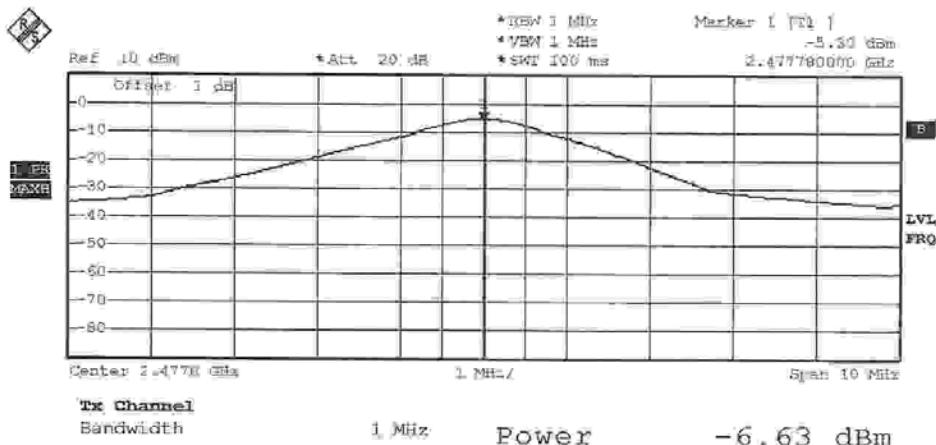


# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:18 of 44  
Date: Sep. 11, 2006

B

Receiver: TX



CH31 20dB bandwidth = 5.12 MHz

M.F.Hsu

Date: 1.SEP.2006 12:35:10

|   |                      |   |
|---|----------------------|---|
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|---|----------------------|---|

## 4.3 BAND EDGE TEST

### 4.3.1 LIMIT

FCC Part15, Subpart C Section 15.247. 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)).

| OPERATING FREQUENCY RANGE (MHz) | SPURIOUS EMISSION FREQUENCY (MHz) | LIMIT                              |                        |
|---------------------------------|-----------------------------------|------------------------------------|------------------------|
|                                 |                                   | Peak power ration to emission(dBc) | Emission level(dBuV/m) |
| 902-928                         | <902                              | >20                                | NA                     |
|                                 | >928                              | >20                                | NA                     |
|                                 | 960-1240                          | NA                                 | 54                     |
| 2400-2483.5                     | <2400                             | >20                                | NA                     |
|                                 | >2483.5-2500                      | NA                                 | 54                     |
| 5725-5850                       | <5350-5460                        | NA                                 | 54                     |
|                                 | <5725                             | >20                                | NA                     |
|                                 | >5850                             | >20                                | NA                     |

|   |                      |  |
|---|----------------------|--|
|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:20 of 44<br>Date: Sep. 11, 2006 |
|---|----------------------|--|

### 4.3.2 TEST EQUIPMENT

The following test equipment was used during the test :

| EQUIPMENT/<br>FACILITIES | SPECIFICATIONS            | MANUFACTURER    | MODEL#/<br>SERIAL#    | DUE DATE OF CAL. &<br>CAL. CENTER |
|--------------------------|---------------------------|-----------------|-----------------------|-----------------------------------|
| SPECTRUM                 | 9kHz-7GHz                 | ROHDE & SCHWARZ | FSP7/<br>839511/010   | APR. 2007<br>R&S                  |
| EMI TEST RECEIVER        | 9 kHz TO 2750 MHz         | ROHDE & SCHWARZ | ESCS30/<br>830245/012 | AUG. 2007<br>R&S                  |
| SPECTRUM                 | 9KHz-26.5GHz              | HP              | 8593E/<br>3710A03220  | MAY 2007<br>ETC                   |
| PRE-AMPLIFIER            | 1GHz-26.5GHz<br>Gain:30dB | HP              | 8449B/<br>3008A01019  | NOV. 2006<br>ETC                  |
| BI-LOG ANTENNA           | 25 MHz TO 2 GHz           | EMCO            | 3142/<br>9701-1124    | FEB. 2007<br>SRT                  |
| HORN ANTENNA             | 1GHz to 18GHz             | EMCO            | 3115/<br>9602-4681    | DEC. 2006<br>ETC                  |
| OATS                     | 3 - 10 M measurement      | SRT             | SRT-1                 | APR. 2007<br>SRT                  |

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



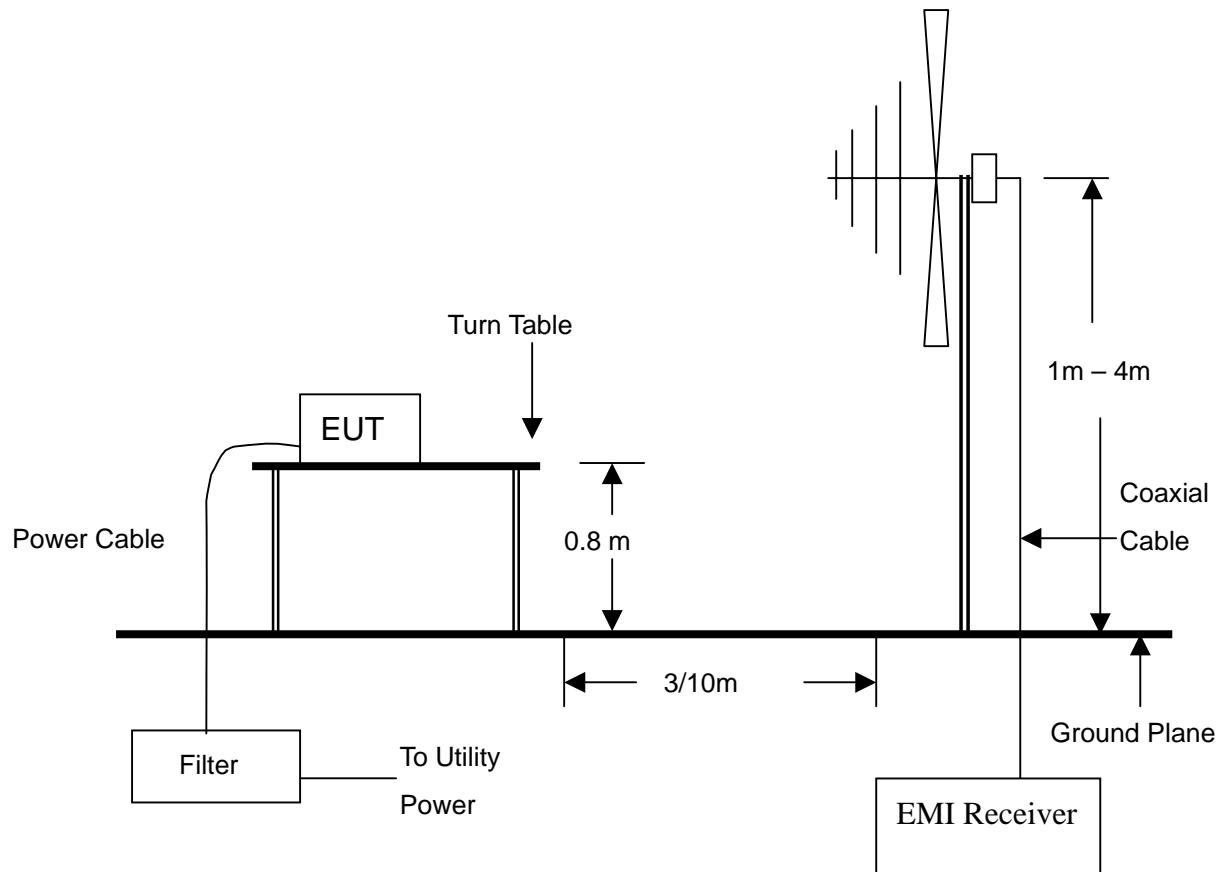
Spectrum Research &  
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No. 101-10, Ling 8,  
Shan-Tong Li, Chung-Li  
City, Taoyuan, Taiwan

# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:21 of 44  
Date: Sep. 11, 2006

## 4.3.3 TEST SET-UP

### FOR RADIATED EMISSION TEST



#### NOTE :

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.

|   |                      |  |
|---|----------------------|--|
|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:22 of 44<br>Date: Sep. 11, 2006 |
|---|----------------------|--|

#### 4.3.4 TEST PROCEDURE

1. The EUT was operating in hopping mode or could be controlled its channel.  
Printed out the test result from the spectrum by hard copy function.
2. The EUT was tested according to the requirement of ANSI C63.4 and CISPR 22.  
The measurements were made at an open area test site with 10 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz. All readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak and average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

#### 4.3.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

#### 4.3.6 TEST RESULT

|                    |         |              |               |
|--------------------|---------|--------------|---------------|
| Temperature:       | 20°C    | Humidity:    | 56%RH         |
| Spectrum Detector: | PK & AV | Tested by:   | Mao Feng Hsu  |
| Test Result:       | PASS    | Tested Date: | Sep. 11, 2006 |

#### Radiated emission test-RX

| Frequency<br>(MHz) | Antenna<br>polarization<br>(H/V) | Reading<br>(dBuV) |      | Emission<br>(dBuV/m) |      | Band edge Limit<br>(dBuV/m) |      |
|--------------------|----------------------------------|-------------------|------|----------------------|------|-----------------------------|------|
|                    |                                  | PK                | AV   | PK                   | AV   | PK                          | AV   |
| <2400              | H                                | 47.4              | 37.5 | 43.2                 | 33.3 | 74.0                        | 54.0 |
| >2483.5            | V                                | 47.4              | 37.9 | 43.4                 | 33.9 | 74.0                        | 54.0 |

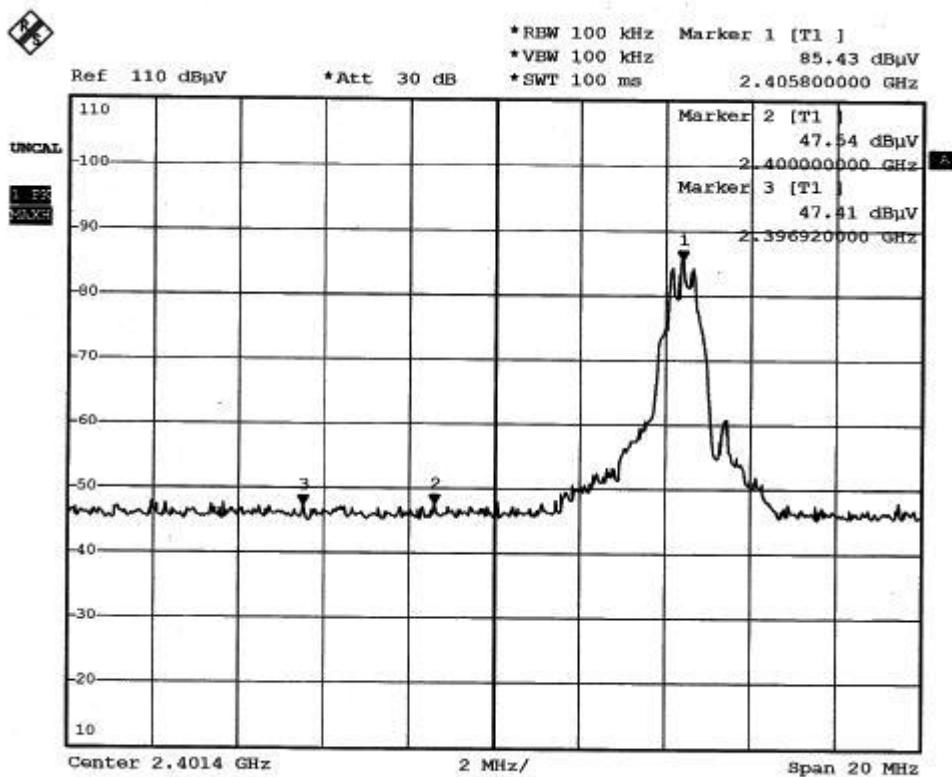
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# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:23 of 44  
Date: Sep. 11, 2006

RX  
<2400MHz:



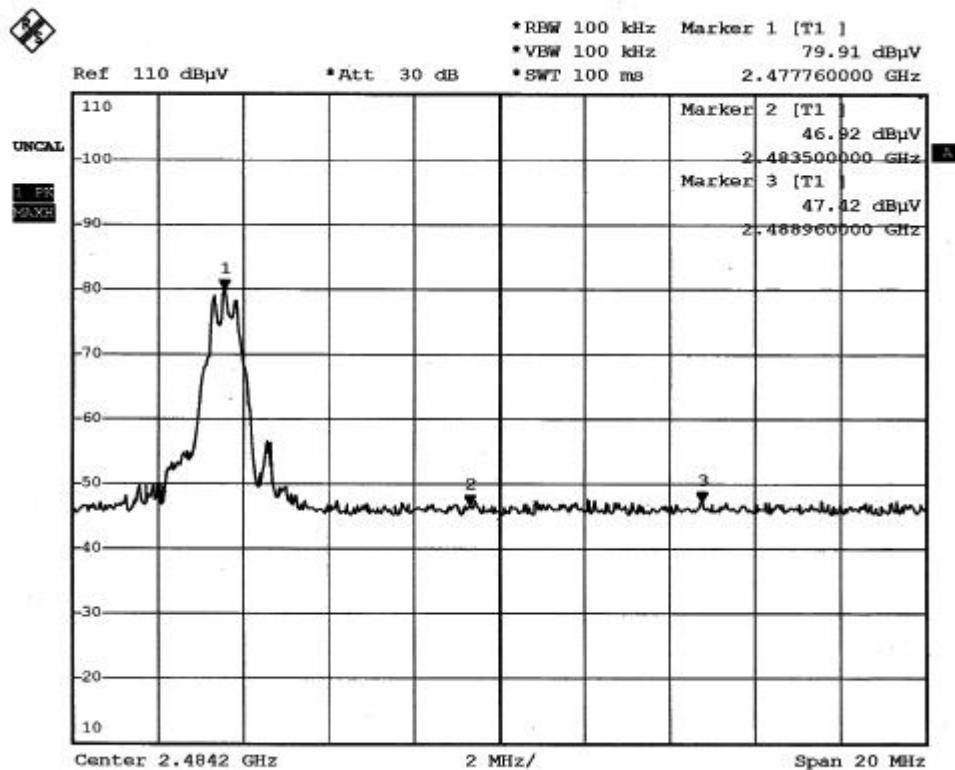
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# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:24 of 44  
Date: Sep. 11, 2006

>2483.5MHz



|   |                      |  |
|---|----------------------|--|
|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:25 of 44<br>Date: Sep. 11, 2006 |
|---|----------------------|--|

## 4.4 SPURIOUS RADIATED EMISSION TEST

### 4.4.1 LIMIT

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| FREQUENCY (MHz) | DISTANCE (m) | FIELD STRENGTH (dB $\mu$ V/m) |
|-----------------|--------------|-------------------------------|
| 30 - 88         | 3            | 40.0                          |
| 88 - 216        | 3            | 43.5                          |
| 216 - 960       | 3            | 46.0                          |
| ABOVE 960       | 3            | 54.0                          |

**NOTE** : 1. In the emission tables above , the tighter limit applies at the band edges.

2. Distance refers to the distance between measuring instrument , antenna , and the closest point of any part of the device or system.

FCC Part 15, Section15.35(b) limit of radiated emission for frequency above 1000 MHz

| FREQUENCY (MHz) | Class A (dB $\mu$ V/m) (at 3m) |         | Class B (dB $\mu$ V/m) (at 3m) |         |
|-----------------|--------------------------------|---------|--------------------------------|---------|
|                 | PEAK                           | AVERAGE | PEAK                           | AVERAGE |
| Above 1000      | 80.0                           | 60.0    | 74.0                           | 54.0    |

FCC Part 15, Subpart C Section 15.249. The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| FUNDAMENTAL FREQUENCY (MHz) | FILED STRENGTH OF FUNDAMENTAL (dB $\mu$ V/m) (at 3m) |         | FIELD STRENGTH OF HARMONICS (dB $\mu$ V/m) (at 3m) |         |
|-----------------------------|--|---------|--|---------|
|                             | PEAK   | AVERAGE | PEAK   | AVERAGE |
| 902-928                     | 114  | 94      | 74.0   | 54.0    |
| 2400-2483.5                 | 114  | 94      | 74.0   | 54.0    |
| 5725-5875                   | 114  | 94      | 74.0   | 54.0    |
| 24000-24250                 | 128  | 108     | 88.0   | 68.0    |

|   |                      |  |
|---|----------------------|--|
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|---|----------------------|--|

## 4.4.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test :

| EQUIPMENT/<br>FACILITIES | SPECIFICATIONS          | MANUFACTURER       | MODEL#/<br>SERIAL#      | DUE DATE OF CAL. &<br>CAL. CENTER |
|--------------------------|-------------------------|--------------------|-------------------------|-----------------------------------|
| EMI TEST<br>RECEIVER     | 20 kHz TO<br>1 GHz      | ROHDE &<br>SCHWARZ | ESCS30/<br>830245/012   | OCT. 2006<br>ETC                  |
| SPECTRUM<br>ANALYZER     | 9KHz TO 26.5GHz         | HP                 | 8593E/<br>3710A03220    | MAY 10,2007<br>ETC                |
| HORN ANTENNA             | 18GHz TO 40GHz          | ETS                | 3116/00028513           | OCT 05,2006<br>DBN                |
| HORN ANTENNA             | 1GHz TO 18GHz           | EMCO               | 3115/9012-3619          | JAN. 09,2007<br>ETC               |
| PREAMPLIFIER             | 1GHz TO 26.5GHz         | HP                 | 8449B/<br>3008A01019    | NOV. 15,2006<br>ETC               |
| BI-LOG<br>ANTENNA        | 25 MHz TO<br>2 GHz      | EMCO               | 3143/<br>9509-1141      | SEP. 2006<br>SRT                  |
| OATS                     | 3 – 10 M<br>MEASUREMENT | SRT                | SRT-1                   | DEC. 2006<br>SRT                  |
| COAXIAL<br>CABLE         | 25M                     | SUNCITY            | J400/<br>25M            | AUG. 2007<br>SRT                  |
| FILTER                   | 2 LINE, 30A             | FIL.COIL           | FC-943/<br>869          | N/A                               |
| FREQUENCY<br>CONVERTER   | N/A                     | APC                | AFC-2KBB/<br>F100030031 | AUG. 2007<br>SRT                  |

**NOTE:**

1. The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.
2. The Open Area Test Site (SRT-1) is registered by FCC with No. 90957 and VCCI with No. R-1081.
3. The Open Area Test Site (SRT-2) is registered by FCC with No. 98458 and VCCI with No. R-1168.



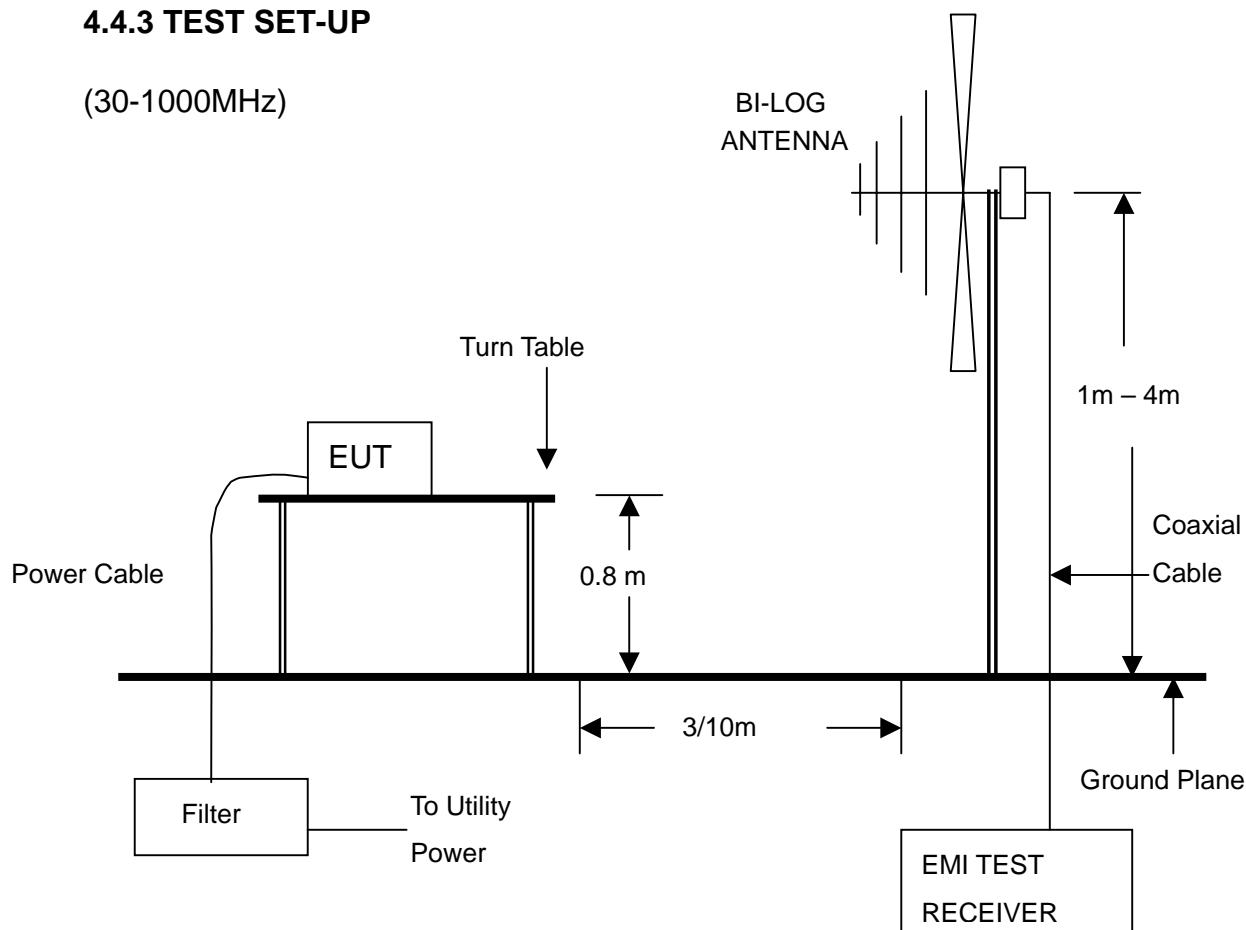
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# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:27 of 44  
Date: Sep. 11, 2006

## 4.4.3 TEST SET-UP

(30-1000MHz)



### NOTE :

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.

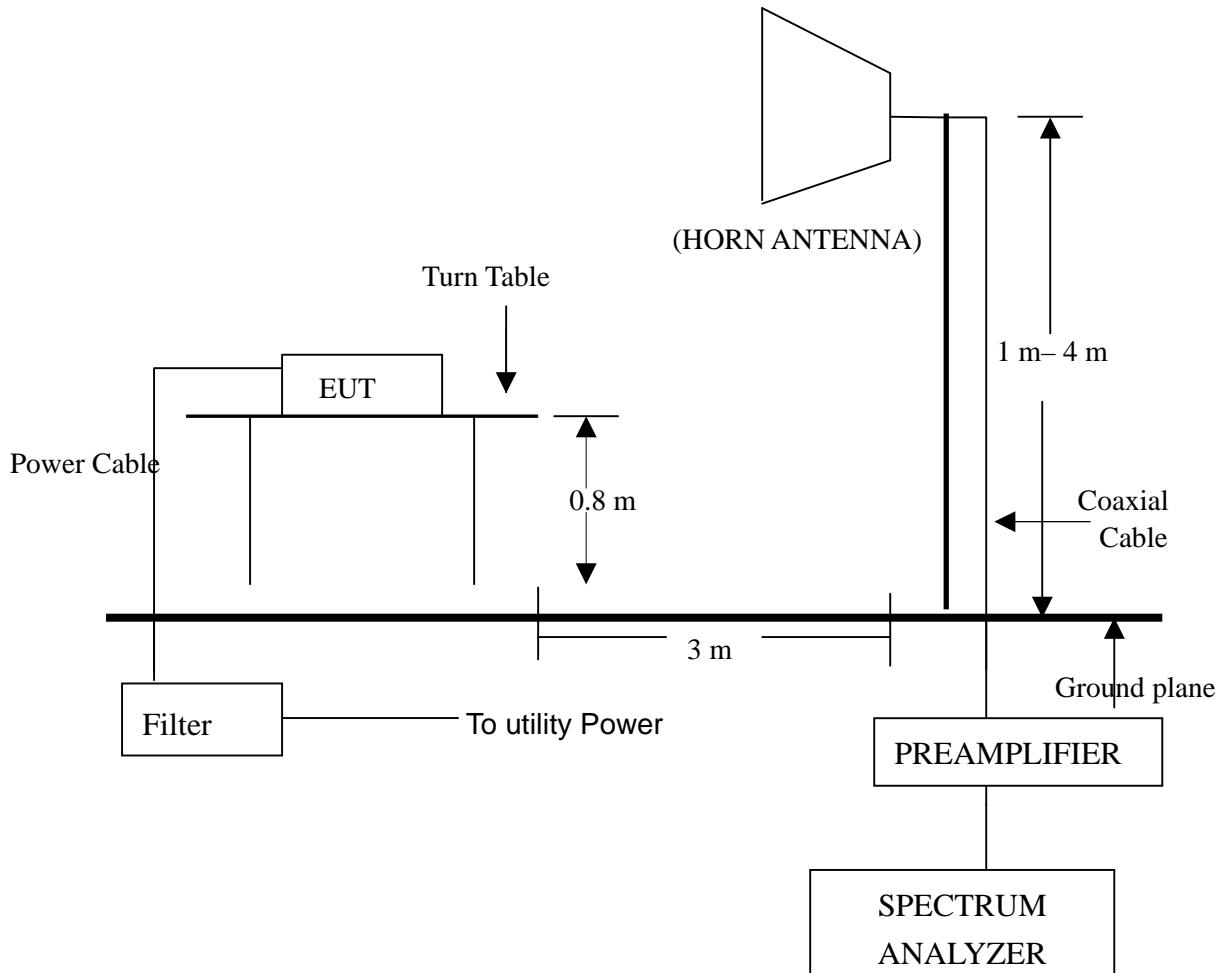


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City, Taoyuan, Taiwan

# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:28 of 44  
Date: Sep. 11, 2006

(1-25GHz )



**NOTE :**

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.

|   |                    |  |
|---|--------------------|--|
|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <b>TEST REPORT</b> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:29 of 44<br>Date: Sep. 11, 2006 |
|---|--------------------|--|

#### 4.4.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4 and CISPR 22. The measurements were made at an open area test site with 10 meters measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz. All readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak and average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

#### 4.4.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

|   |                      |  |
|---|----------------------|--|
|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:30 of 44<br>Date: Sep. 11, 2006 |
|---|----------------------|--|

#### 4.4.6 TEST RESULT

|                    |               |                    |               |
|--------------------|---------------|--------------------|---------------|
| Temperature:       | 31°C          | Humidity:          | 70 %RH        |
| Frequency Range:   | 30 – 1000 MHz | Measured Distance: | 3m            |
| Receiver Detector: | Q.P.          | Tested Mode:       | Link          |
| Tested By:         | Mao Feng Hsu  | Tested Date:       | Sep. 01, 2006 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB $\mu$ V) | Emission Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|-------|-------|
| 313.3400        | 2.59            | 14.37                 | 19.0                      | 36.0                          | 46.0                 | -10.0       | 5     | 1.1   |
| 350.2000        | 3.29            | 15.15                 | 7.8                       | 26.2                          | 46.0                 | -19.8       | 20    | 2.1   |
| 393.2000        | 3.14            | 16.05                 | 15.4                      | 34.6                          | 46.0                 | -11.4       | 357   | 2.0   |
| 589.8100        | 3.71            | 19.01                 | 14.8                      | 37.5                          | 46.0                 | -8.5        | 10    | 2.1   |
| 600.0600        | 3.72            | 19.20                 | 7.6                       | 30.5                          | 46.0                 | -15.5       | 50    | 1.2   |
| 840.0870        | 4.69            | 22.52                 | 7.6                       | 34.8                          | 46.0                 | -11.2       | 350   | 1.3   |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB $\mu$ V) | Emission Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|-------|-------|
| 40.2750         | 0.95            | 9.50                  | 13.3                      | 23.8                          | 40.0                 | -16.3       | 2     | 1.0   |
| 54.5250         | 0.99            | 4.98                  | 19.5                      | 25.5                          | 40.0                 | -14.5       | 350   | 1.8   |
| 313.2400        | 2.59            | 14.37                 | 14.3                      | 31.3                          | 46.0                 | -14.7       | 15    | 1.2   |
| 393.2120        | 3.14            | 16.05                 | 16.0                      | 35.2                          | 46.0                 | -10.8       | 20    | 1.1   |
| 637.8625        | 4.50            | 19.94                 | 10.0                      | 34.4                          | 46.0                 | -11.6       | 10    | 1.3   |
| 786.4125        | 4.94            | 21.37                 | 8.8                       | 35.1                          | 46.0                 | -10.9       | 0     | 1.6   |

**NOTE :**

1. Measurement uncertainty is +/-2dB.
2. \*\*: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

|   |                      |  |
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|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:31 of 44<br>Date: Sep. 11, 2006 |
|---|----------------------|--|

|                    |              |                    |               |
|--------------------|--------------|--------------------|---------------|
| Temperature:       | 30 °C        | Humidity:          | 70 %RH        |
| Frequency Range:   | 1 – 25 GHz   | Test mode:         | RX:CH0        |
| Receiver Detector: | PK. or AV.   | Measured Distance: | 3m            |
| Tested by:         | Mao Feng Hsu | Tested Date:       | Sep. 01, 2006 |

Antenna Polarization: Horizontal

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Reading<br>Data<br>(dB $\mu$ V) |      | Emission<br>Level<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |      | AZ(°) | EL(m) |
|--------------------|-----------------------|-----------------------------|---------------------------------|------|-------------------------------------|------|-------------------------|------|----------------|------|-------|-------|
|                    |                       |                             | PK.                             | AV.  | PK.                                 | AV.  | PK.                     | AV.  | PK.            | AV.  |       |       |
| 2406.00            | -32.17                | 28.55                       | 86.8                            | 84.3 | 83.1                                | 80.7 | N/A                     | N/A  | N/A            | N/A  | 212   | 2.3   |
| 4812.00            | -30.45                | 33.65                       | 48.5                            | *    | 51.7                                | *    | 74.0                    | 54.0 | -22.3          | *    | 36    | 2.6   |
| 7323.00            | -29.04                | 36.36                       | 54.0                            | 42.1 | 61.3                                | 49.4 | 74.0                    | 54.0 | -12.7          | -4.6 | 17    | 1.8   |
| 2335.00            | -32.35                | 27.87                       | 50.1                            | *    | 45.7                                | *    | 74.0                    | 54.0 | -28.4          | *    | 65    | 1.5   |
| 2453.00            | -32.24                | 28.11                       | 49.7                            | *    | 45.6                                | *    | 74.0                    | 54.0 | -28.4          | *    | 247   | 2.1   |
| 4719.00            | -30.52                | 33.58                       | 49.3                            | *    | 52.4                                | *    | 74.0                    | 54.0 | -21.6          | *    | 56    | 2.6   |
| 9624.00            | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 12030.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 14436.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 16842.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 19248.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 21654.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 24060.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |

**NOTE :**

1. Measurement uncertainty is +/-2dB.
2. \*\*: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. Margin= Emission-Limit
5. The field strength of other emission frequencies (Above 8GHz) were very low against the limit.

|   |                      |  |
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|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:32 of 44<br>Date: Sep. 11, 2006 |
|---|----------------------|--|

|                    |              |                    |               |
|--------------------|--------------|--------------------|---------------|
| Temperature:       | 30 °C        | Humidity:          | 70 %RH        |
| Frequency Range:   | 1 – 25 GHz   | Test mode:         | RX:CH0        |
| Receiver Detector: | PK. or AV.   | Measured Distance: | 3m            |
| Tested by:         | Mao Feng Hsu | Tested Date:       | Sep. 01, 2006 |

Antenna Polarization: Vertical

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Reading<br>Data<br>(dB $\mu$ V) |      | Emission<br>Level<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |      | AZ(°) | EL(m) |
|--------------------|-----------------------|-----------------------------|---------------------------------|------|-------------------------------------|------|-------------------------|------|----------------|------|-------|-------|
|                    |                       |                             | PK.                             | AV.  | PK.                                 | AV.  | PK.                     | AV.  | PK.            | AV.  |       |       |
| 2405.80            | -32.17                | 28.01                       | 91.2                            | 89.3 | 87.0                                | 85.1 | N/A                     | N/A  | N/A            | N/A  | 202   | 1.2   |
| 4812.00            | -30.45                | 33.65                       | 48.0                            | *    | 51.2                                | *    | 74.0                    | 54.0 | -22.8          | *    | 52    | 2.5   |
| 7323.00            | -29.04                | 36.36                       | 52.3                            | 42.0 | 59.6                                | 49.3 | 74.0                    | 54.0 | -14.4          | -4.7 | 65    | 1.9   |
| 2348.00            | -32.35                | 27.90                       | 54.4                            | *    | 50.0                                | *    | 74.0                    | 54.0 | -24.0          | *    | 75    | 1.0   |
| 2513.00            | -32.07                | 28.27                       | 55.3                            | *    | 51.5                                | *    | 74.0                    | 54.0 | -22.5          | *    | 99    | 2.6   |
| 4777.00            | -30.45                | 33.62                       | 49.2                            | *    | 52.4                                | *    | 74.0                    | 54.0 | -21.6          | *    | 100   | 1.4   |
| 9624.00            | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 12030.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 14436.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 16842.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 19248.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 21654.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 24060.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |

**NOTE :**

1. Measurement uncertainty is +/-2dB.
2. \*\*: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. Margin= Emission-Limit
5. The field strength of other emission frequencies (Above 8GHz) were very low against the limit.

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|---|----------------------|--|
|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A06082902<br>Report No.: FCCA06082902-01<br>FCCID: UKT95025-MF002<br>Page:33 of 44<br>Date: Sep. 11, 2006 |
|---|----------------------|--|

|                    |              |                    |               |
|--------------------|--------------|--------------------|---------------|
| Temperature:       | 30°C         | Humidity:          | 70 %RH        |
| Frequency Range:   | 1 – 25 GHz   | Test mode:         | RX:CH17       |
| Receiver Detector: | PK. or AV.   | Measured Distance: | 3m            |
| Tested by:         | Mao Feng Hsu | Tested Date:       | Sep. 01, 2006 |

Antenna Polarization: Horizontal

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Reading<br>Data<br>(dB $\mu$ V) |      | Emission<br>Level<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |      | AZ(°) | EL(m) |
|--------------------|-----------------------|-----------------------------|---------------------------------|------|-------------------------------------|------|-------------------------|------|----------------|------|-------|-------|
|                    |                       |                             | PK.                             | AV.  | PK.                                 | AV.  | PK.                     | AV.  | PK.            | AV.  |       |       |
| 2440.00            | -32.22                | 28.62                       | 84.0                            | 81.9 | 80.4                                | 78.3 | N/A                     | N/A  | N/A            | N/A  | 30    | 2     |
| 4881.00            | -30.27                | 33.70                       | 48.3                            | *    | 51.8                                | *    | 74.0                    | 54.0 | -22.2          | *    | 225   | 1.6   |
| 7321.00            | -29.04                | 36.36                       | 55.1                            | 41.5 | 62.4                                | 48.8 | 74.0                    | 54.0 | -11.6          | -5.2 | 90    | 2.6   |
| 2417.00            | -32.19                | 28.03                       | 51.0                            | *    | 46.8                                | *    | 74.0                    | 54.0 | -27.2          | *    | 54    | 1.3   |
| 2485.00            | -32.18                | 28.17                       | 49.2                            | *    | 45.2                                | *    | 74.0                    | 54.0 | -28.8          | *    | 68    | 2.1   |
| 4781.00            | -30.45                | 33.62                       | 48.9                            | 41.4 | 52.0                                | 44.6 | 74.0                    | 54.0 | -22.0          | -9.4 | 63    | 1.4   |
| 9760.00            | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 12200.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 14640.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 17080.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 19520.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 21960.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 24400.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |

**NOTE :**

1. Measurement uncertainty is +/-2dB.
2. \*\*: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. Margin= Emission-Limit
5. The field strength of other emission frequencies (Above 8GHz) were very low against the limit.

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|---|----------------------|--|
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|---|----------------------|--|

|                    |              |                    |               |
|--------------------|--------------|--------------------|---------------|
| Temperature:       | 30°C         | Humidity:          | 70 %RH        |
| Frequency Range:   | 1 – 25 GHz   | Test mode:         | RX:CH17       |
| Receiver Detector: | PK. or AV.   | Measured Distance: | 3m            |
| Tested by:         | Mao Feng Hsu | Tested Date:       | Sep. 01, 2006 |

Antenna Polarization: Vertical

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Reading<br>Data<br>(dB $\mu$ V) |      | Emission<br>Level<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |      | AZ(°) | EL(m) |
|--------------------|-----------------------|-----------------------------|---------------------------------|------|-------------------------------------|------|-------------------------|------|----------------|------|-------|-------|
|                    |                       |                             | PK.                             | AV.  | PK.                                 | AV.  | PK.                     | AV.  | PK.            | AV.  |       |       |
| 2440.00            | -32.22                | 28.08                       | 90.2                            | 88.5 | 86.1                                | 84.4 | N/A                     | N/A  | N/A            | N/A  | 111   | 2     |
| 4881.00            | -30.27                | 33.70                       | 48.2                            | 40.9 | 51.6                                | 44.4 | 74.0                    | 54.0 | -22.4          | -9.6 | 69    | 1.1   |
| 7321.00            | -29.04                | 36.36                       | 54.0                            | 41.9 | 61.3                                | 48.9 | 74.0                    | 54.0 | -12.7          | -5.1 | 104   | 2.9   |
| 2389.00            | -32.20                | 27.98                       | 50.7                            | *    | 46.5                                | *    | 74.0                    | 54.0 | -27.5          | *    | 20    | 2.9   |
| 2551.00            | -31.82                | 28.49                       | 50.2                            | *    | 46.8                                | *    | 74.0                    | 54.0 | -27.2          | *    | 65    | 1     |
| 4811.00            | -30.45                | 33.65                       | 49.3                            | 41.6 | 52.5                                | 44.8 | 74.0                    | 54.0 | -21.5          | -9.2 | 98    | 1.5   |
| 9760.00            | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 12200.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 14640.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 17080.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 19520.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 21960.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |
| 24400.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *     | *     |

**NOTE :**

1. Measurement uncertainty is +/-2dB.
2. \*\*: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. Margin= Emission-Limit
5. The field strength of other emission frequencies (Above 8GHz) were very low against the limit.

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|---|----------------------|--|

|                    |              |                    |               |
|--------------------|--------------|--------------------|---------------|
| Temperature:       | 30°C         | Humidity:          | 70 %RH        |
| Frequency Range:   | 1 – 25 GHz   | Test mode:         | RX:CH31       |
| Receiver Detector: | PK. or AV.   | Measured Distance: | 3m            |
| Tested by:         | Mao Feng Hsu | Tested Date:       | Sep. 01, 2006 |

Antenna Polarization: Horizontal

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Reading<br>Data<br>(dB $\mu$ V) |      | Emission<br>Level<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |      | AZ( $^{\circ}$ ) | EL(m) |
|--------------------|-----------------------|-----------------------------|---------------------------------|------|-------------------------------------|------|-------------------------|------|----------------|------|------------------|-------|
|                    |                       |                             | PK.                             | AV.  | PK.                                 | AV.  | PK.                     | AV.  | PK.            | AV.  |                  |       |
| 2478.00            | -32.20                | 28.73                       | 84.9                            | 81.6 | 81.5                                | 78.1 | N/A                     | N/A  | N/A            | N/A  | 14               | 1.4   |
| 4960.00            | -30.26                | 33.77                       | 48.0                            | 41.9 | 51.6                                | 45.4 | 74.0                    | 54.0 | -22.5          | -8.6 | 194              | 1.1   |
| 7442.00            | -28.95                | 36.45                       | 53.8                            | 41.8 | 61.3                                | 49.3 | 74.0                    | 54.0 | -12.7          | -4.7 | 75               | 1.1   |
| 2390.00            | -32.20                | 27.98                       | 49.9                            | *    | 45.7                                | *    | 74.0                    | 54.0 | -28.3          | *    | 60               | 1.3   |
| 2530.00            | -31.95                | 28.37                       | 49.2                            | *    | 45.6                                | *    | 74.0                    | 54.0 | -28.4          | *    | 31               | 1.1   |
| 4881.00            | -30.27                | 33.70                       | 50.1                            | 41.4 | 53.5                                | 44.9 | 74.0                    | 54.0 | -20.5          | -9.1 | 35               | 1.8   |
| 9912.00            | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *                | *     |
| 12390.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *                | *     |
| 14868.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *                | *     |
| 17346.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *                | *     |
| 19824.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *                | *     |
| 22302.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *                | *     |
| 24780.00           | *                     | *                           | *                               | *    | *                                   | *    | *                       | *    | *              | *    | *                | *     |

**NOTE :**

1. Measurement uncertainty is +/-2dB.
2. \*\*: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. Margin= Emission-Limit
5. The field strength of other emission frequencies (Above 8GHz) were very low against the limit.

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|---|----------------------|--|

|                    |              |                    |               |
|--------------------|--------------|--------------------|---------------|
| Temperature:       | 30°C         | Humidity:          | 70 %RH        |
| Frequency Range:   | 1 – 25 GHz   | Test mode:         | RX:CH31       |
| Receiver Detector: | PK. or AV.   | Measured Distance: | 3m            |
| Tested by:         | Mao Feng Hsu | Tested Date:       | Sep. 01, 2006 |

Antenna Polarization: Vertical

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Reading              |            | Emission                |            | Limit      |            | Margin     |            | AZ(°) | EL(m) |
|--------------------|-----------------------|-----------------------------|----------------------|------------|-------------------------|------------|------------|------------|------------|------------|-------|-------|
|                    |                       |                             | Data<br>(dB $\mu$ V) | PK.<br>AV. | Level<br>(dB $\mu$ V/m) | PK.<br>AV. | PK.<br>AV. | PK.<br>AV. | PK.<br>AV. | PK.<br>AV. |       |       |
| 2478.00            | -32.20                | 28.16                       | 90.3                 | 83.6       | 86.3                    | 79.6       | N/A        | N/A        | N/A        | N/A        | 100   | 1.4   |
| 4964.00            | -30.26                | 33.77                       | 49.3                 | 41.0       | 52.8                    | 44.5       | 74.0       | 54.0       | -21.2      | -9.5       | 74    | 1.3   |
| 7442.00            | -28.95                | 36.45                       | 54.7                 | 42.5       | 62.2                    | 50.0       | 74.0       | 54.0       | -11.8      | -4.0       | 35    | 1.2   |
| 2390.00            | -32.20                | 27.98                       | 55.9                 | *          | 51.7                    | *          | 74.0       | 54.0       | -22.3      | *          | 24    | 2     |
| 2543.00            | -31.86                | 28.44                       | 53.5                 | *          | 50.1                    | *          | 74.0       | 54.0       | -23.9      | *          | 45    | 1.2   |
| 4883.00            | -30.26                | 33.71                       | 49.8                 | 41.5       | 53.3                    | 44.9       | 74.0       | 54.0       | -20.7      | -9.1       | 80    | 2.4   |
| 9912.00            | *                     | *                           | *                    | *          | *                       | *          | *          | *          | *          | *          | *     | *     |
| 12390.00           | *                     | *                           | *                    | *          | *                       | *          | *          | *          | *          | *          | *     | *     |
| 14868.00           | *                     | *                           | *                    | *          | *                       | *          | *          | *          | *          | *          | *     | *     |
| 17346.00           | *                     | *                           | *                    | *          | *                       | *          | *          | *          | *          | *          | *     | *     |
| 19824.00           | *                     | *                           | *                    | *          | *                       | *          | *          | *          | *          | *          | *     | *     |
| 22302.00           | *                     | *                           | *                    | *          | *                       | *          | *          | *          | *          | *          | *     | *     |
| 24780.00           | *                     | *                           | *                    | *          | *                       | *          | *          | *          | *          | *          | *     | *     |

**NOTE :**

1. Measurement uncertainty is +/-2dB.
2. \*\*: Measurement does not apply for this frequency.
5. Emission Level = Reading Value + Ant. Factor + Cable Loss.
6. Margin= Emission-Limit
5. The field strength of other emission frequencies (Above 8GHz) were very low against the limit.

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|---|----------------------|--|

## 4.5 CONDUCTED EMISSION TEST FOR POWER PORT

### 4.5.1 CONDUCTED EMISSION LIMIT

| FREQUENCY (MHz) | Class A (dB $\mu$ V) |         | Class B (dB $\mu$ V) |         |
|-----------------|----------------------|---------|----------------------|---------|
|                 | Quasi-peak           | Average | Quasi-peak           | Average |
| 0.15 - 0.5      | 79                   | 66      | 66 - 56              | 56 - 46 |
| 0.5 - 5.0       | 73                   | 60      | 56                   | 46      |
| 5.0 - 30.0      | 73                   | 60      | 60                   | 50      |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

### 4.5.2 TEST EQUIPMENT

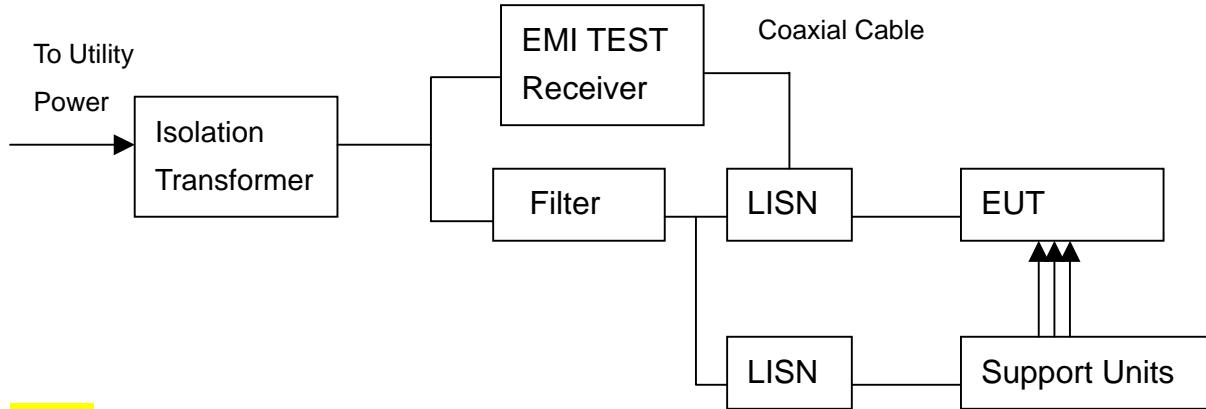
The following test equipment was used for the test:

| EQUIPMENT/FACILITIES  | SPECIFICATIONS      | MANUFACTURER      | MODEL#/SERIAL#            | DUE DATE OF CAL. & CAL. CENTER |
|-----------------------|---------------------|-------------------|---------------------------|--------------------------------|
| EMI TEST RECEIVER     | 9 kHz TO 30 MHz     | ROHDE & SCHWARZ   | ESHS30/826003/008         | AUG. 2007 ETC                  |
| LISN (for EUT)        | 50 $\mu$ H, 50 ohm  | SOLAR ELECTRONICS | 8012-50-R-24-BNC / 924839 | JUN. 2007 ETC                  |
| LISN (for Peripheral) | 50 $\mu$ H, 50 ohm  | SOLAR ELECTRONICS | 9252-50-R-24-BNC / 951318 | JUN. 2007 ETC                  |
| 50 ohm TERMINATOR     | 50 ohm              | HP                | 11593A/2                  | JUN. 2007 ETC                  |
| COAXIAL CABLE         | 3m                  | SUNCITY           | J400/3M                   | JUL. 2007 SRT                  |
| ISOLATION TRANSFORMER | N/A                 | APC               | AFC-11015/F102040016      | N/A                            |
| FILTER                | 2 LINE, 30A         | FIL.COIL          | FC-943/771                | N/A                            |
| GROUND PLANE          | 2.3M (H) x 2.4M (W) | SRT               | N/A                       | APR. 2007 SRT                  |
| GROUND PLANE          | 2.4M (H) x 2.4M (W) | SRT               | N/A                       | APR. 2007 SRT                  |

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



### 4.5.3 TEST SETUP



**NOTE:**

1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.
3. The serial no. of the LISN connected to EUT is 01017.
4. The serial no. of the LISN connected to support units is 01018.

### 4.5.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR22:2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50 $\mu$ H as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

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|---|----------------------|--|
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|---|----------------------|--|

## 4.5.5 TEST RESULT

|                    |               |              |               |
|--------------------|---------------|--------------|---------------|
| Temperature:       | 24 °C         | Humidity:    | 68 %RH        |
| Frequency Range:   | 0.15 – 30 MHz | Tested Mode: | Link          |
| Receiver Detector: | Q.P. and AV.  | Tested By:   | Mao Feng Hsu  |
| Tested Result:     | Pass          | Tested Date: | Aug. 31, 2006 |

Power Line Measured : Line

| Freq.<br>(MHz) | Correct.<br>Factor<br>(dB) | Reading Value<br>(dB $\mu$ V) |       | Emission Level<br>(dB $\mu$ V) |       | Limit<br>(dB $\mu$ V) |       | Margin<br>(dB) |        |
|----------------|----------------------------|-------------------------------|-------|--------------------------------|-------|-----------------------|-------|----------------|--------|
|                |                            | Q.P.                          | AV.   | Q.P.                           | AV.   | Q.P.                  | AV.   | Q.P.           | AV.    |
| 0.189          | 0.30                       | 49.86                         | 35.97 | 50.16                          | 36.27 | 64.06                 | 54.06 | -13.90         | -17.79 |
| 0.198          | 0.30                       | 48.58                         | 31.79 | 48.88                          | 32.09 | 63.68                 | 53.68 | -14.80         | -21.59 |
| 0.572          | 0.24                       | 38.70                         | 27.15 | 38.94                          | 27.39 | 56.00                 | 46.00 | -17.06         | -18.61 |
| 4.695          | 0.21                       | 31.52                         | 28.64 | 31.73                          | 28.85 | 56.00                 | 46.00 | -24.27         | -17.15 |
| 4.883          | 0.22                       | 32.58                         | 30.81 | 32.80                          | 31.03 | 56.00                 | 46.00 | -23.20         | -14.97 |
| 5.832          | 0.22                       | 31.60                         | 28.85 | 31.82                          | 29.07 | 60.00                 | 50.00 | -28.18         | -20.93 |

Power Line Measured : Neutral

| Freq.<br>(MHz) | Correct.<br>Factor<br>(dB) | Reading Value<br>(dB $\mu$ V) |       | Emission Level<br>(dB $\mu$ V) |       | Limit<br>(dB $\mu$ V) |       | Margin<br>(dB) |        |
|----------------|----------------------------|-------------------------------|-------|--------------------------------|-------|-----------------------|-------|----------------|--------|
|                |                            | Q.P.                          | AV.   | Q.P.                           | AV.   | Q.P.                  | AV.   | Q.P.           | AV.    |
| 0.186          | 0.30                       | 48.60                         | 34.58 | 48.90                          | 34.88 | 64.20                 | 54.20 | -15.30         | -19.32 |
| 0.189          | 0.30                       | 50.14                         | 38.17 | 50.44                          | 38.47 | 64.06                 | 54.06 | -13.62         | -15.59 |
| 0.577          | 0.24                       | 35.88                         | 18.70 | 36.12                          | 18.94 | 56.00                 | 46.00 | -19.88         | -27.06 |
| 3.487          | 0.19                       | 32.96                         | 31.44 | 33.15                          | 31.63 | 56.00                 | 46.00 | -22.85         | -14.37 |
| 3.804          | 0.20                       | 33.02                         | 31.64 | 33.22                          | 31.84 | 56.00                 | 46.00 | -22.78         | -14.16 |
| 7.994          | 0.23                       | 31.86                         | 26.98 | 32.09                          | 27.21 | 60.00                 | 50.00 | -27.91         | -22.79 |

### NOTE :

1. Measurement uncertainty is +/-1.32dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies were very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

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|---|--------------------|--|

## 5. Antenna application

### 5.1 Antenna requirement

The EUT's antenna is met the requirement of FCC part15C section15.203 and 15.204.

FCC part15C section15.247 requirement:

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

### 5.2 Result

The EUT's antenna used a dipole antenna and integrated on PCB. The antenna's gain is 2dBi and meets the requirement.



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# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:41 of 44  
Date: Sep. 11, 2006

6.

## 6. PHOTOS OF TESTING

- Radiated test –below 1GHz (LINK)





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# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:42 of 44  
Date: Sep. 11, 2006

- Radiated test-Above 1GHz





# TEST REPORT

Reference No.: A06082902  
Report No.: FCCA06082902-01  
FCCID: UKT95025-MF002  
Page:43 of 44  
Date: Sep. 11, 2006

- Conducted test (Link)



|   |  |   |
|---|--|---|
|  <p><b>Spectrum Research &amp; Testing Lab., Inc.</b><br/>No. 101-10, Ling 8,<br/>Shan-Tong Li, Chung-Li<br/>City, Taoyuan, Taiwan</p> | <h1 style="text-align: center;">TEST REPORT</h1> | <p>Reference No.: A06082902<br/>Report No.: FCCA06082902-01<br/>FCCID: UKT95025-MF002<br/>Page:44 of 44<br/>Date: Sep. 11, 2006</p> |
|---|--|---|

## 7. TERMS OF ABBREVIATION

|          |  |
|----------|--|
| AV.      | Average detection                            |
| AZ(°)    | Turn table azimuth                           |
| Correct. | Correction                                   |
| EL(m)    | Antenna height (meter)                       |
| EUT      | Equipment Under Test                         |
| Horiz.   | Horizontal direction                         |
| LISN     | Line Impedance Stabilization Network         |
| NSA      | Normalized Site Attenuation                  |
| Q.P.     | Quasi-peak detection                         |
| SRT Lab  | Spectrum Research & Testing Laboratory, Inc. |
| Vert.    | Vertical direction                           |