



**FCC CFR 47 PART 15 SUBPART C**

**TEST REPORT**

**For**

**Secure Wireless, Inc.**

**Wireless FM Transmitter**

**Model: IJETNANOFM**

**Trade Name: ABT**

*Issued for*

**Secure Wireless, Inc.**

**1185 PARK CENTER DRIVE SUITE, A AND B VISTA,  
CALIFORNIA, 92083 U.S.A.**

*Issued by*



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## 1. TEST RESULT CERTIFICATION

**Applicant:** Secure Wireless, Inc.  
1185 PARK CENTER DRIVE SUITE, A AND B VISTA,  
CALIFORNIA, 92083 U.S.A.

**Equipment Under Test:** Wireless FM Transmitter

**Trade Name:** ABT

**Model:** IJETNANOFM

**Model Difference:** ABT

**Report Number:** 60517201-RP1

**Date of Test:** May 26, 2006 ~ June 15, 2006

| APPLICABLE STANDARDS  |                         |
|-----------------------|-------------------------|
| STANDARD              | TEST RESULT             |
| FCC Part 15 Subpart C | No non-compliance noted |

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.239.

The test results of this report relate only to the tested sample identified in this report.

*Approved by:*

David Wang  
Manager of Hsintien Laboratory  
Compliance Certification Services Inc.

*Reviewed by:*

Vince Chiang  
Assistant Manager of Hsintien Laboratory  
Compliance Certification Services Inc.



## 2. EUT DESCRIPTION

|                             |                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Product</b>              | Wireless FM Transmitter                                                                             |
| <b>Trade Name</b>           | ABT                                                                                                 |
| <b>Model</b>                | IJETNANOFM                                                                                          |
| <b>Power Supply</b>         | 3VDC From Battery                                                                                   |
| <b>Operate Frequency</b>    | 88.1MHz~107.9MHz<br>(There are 100 channels which increase step is 0.2MHz from 88.1MHz to 107.9MHz) |
| <b>Transmit Power</b>       | N/A                                                                                                 |
| <b>Modulation Technique</b> | FM                                                                                                  |
| <b>Number of Channels</b>   | 100 Channels                                                                                        |
| <b>Operating Mode</b>       | Point-to-Point                                                                                      |
| <b>Antenna Designation</b>  | Fixed Antenna, which is built in EUT                                                                |

**Note:** The product is a composite system, which includes Transmitter and Receiver.

This submittal(s) (test report) is intended for FCC ID: QNP-NANOFM filing to comply with Section 15.227 of the FCC Part 15 Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.



### **3. TEST METHODOLOGY**

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 Part 15 Subpart C.

#### **3.1 EUT CONFIGURATION**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### **3.2 EUT EXERCISE**

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

#### **3.3 GENERAL TEST PROCEDURES**

##### **Conducted Emissions**

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

##### **Radiated Emissions**

The EUT is placed on a turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.



### 3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                        | MHz                 | MHz             | GHz              |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423      | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475 | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67        | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25        | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6           | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2         | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94        | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138           | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05      | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 -         | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.52525           | 2655 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 156.7 - 156.9       | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 162.0125 - 167.17   | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 167.72 - 173.2      | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 240 - 285           | 3600 - 4400     | ( <sup>2</sup> ) |
| 13.36 - 13.41              | 322 - 335.4         |                 |                  |

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

### 3.5 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition and tested in continuous transmitting mode.

- The following test mode(s) were scanned during the preliminary test:

- Set in continuous transmitting mode**

- After the preliminary scan, the following test mode was found to produce the highest emission level.

- Mode 1**

Then, the EUT configuration and cable configuration of the above highest emission mode was recorded for all final test items.

There are 100 channels on EUT; we choose three channels, low (88.1MHz), middle (98.1MHz), high (107.9MHz) for final test.



## 4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards

## 5. FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☐ No. 81-1, Lane 210, Pa-de 2nd Road, Luchu Hsiang, Taoyuan Hsien, Taiwan

☒ No. 165, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

### 5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

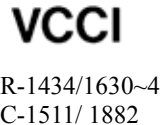
Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.3 LABORATORY ACCREDITATIONS AND LISTINGS

The test facilities used to perform Electromagnetic compatibility tests are registered or accredited by the organizations listed in the following table which includes the recognized scope specifically.

## 5.4 TABLE PF ACCREDITATIONS AND LISTINGS

| Country | Agency          | Scope of Accreditation                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Logo                                                                                  |
|---------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| USA     | A2LA            | CFR 47, FCC Part 15/18; AS/NZS 3548; VCCI V3; CNS 13438; CNS 13439; CNS 13783; CNS 14115; CISPR 11/EN 55011; CISPR 14-1/EN 55014-1; CISPR 15/EN 55015; CISPR 22/EN 55022; EN 50081-1/EN 61000-6-3; EN 50082-1/EN 61000-6-4; IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, IEC/EN 61000-4-11, IEC/EN 61000-3-2, IEC/EN 61000-3-3; CISPR 24/EN 55024; CISPR 14-2/EN 55014-2; EN 50081-2/EN 61000-6-1; EN 50082-2/EN 61000-6-2. |    |
| USA     | FCC             | 3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements                                                                                                                                                                                                                                                                                                                                                                                                                     |    |
| Japan   | VCCI            | 3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements                                                                                                                                                                                                                                                                                                                                                                                    |    |
| Norway  | NEMKO           | EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2/3/4, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, Cisp 16-1/2/3/4                                                                                                                                                                                                                                                                           |   |
| Taiwan  | CNLA            | 47 CFR FCC Part 15 Subpart B, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 13438, AS/NZS 3548, VCCI, CNS 13022-1/2/3, EN 55022, EN 55013, EN 55014-1, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, ENV 50141, ENV 50142                                                                                                                                                                                                                                                                |  |
| Taiwan  | BSMI            | CNS 13438, CNS 13783-1, CNS 13439                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| Canada  | Industry Canada | RSS212, Issue 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |

**Note:** No part of this report may be used to claim or imply product endorsement by CNLA, A2LA or other government agency.





## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1 SETUP CONFIGURATION OF EUT



### 6.2 SUPPORT EQUIPMENT

| No | Equipment | Model      | Serial No. | FCC ID / BSMI ID | Trade Name | Data Cable       | Power Cord |
|----|-----------|------------|------------|------------------|------------|------------------|------------|
| 1. | iPOD      | iPOD A1040 | N/A        | N/A              | Apple      | N/A              | N/A        |
| 2. | Earphone  | N/A        | N/A        | N/A              | Apple      | Unshielded, 1.1m | N/A        |

**Notes:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



## 7. FCC PART 15.239 REQUIREMENTS

### 7.1 26 dB BANDWIDTH

#### LIMIT

N/A

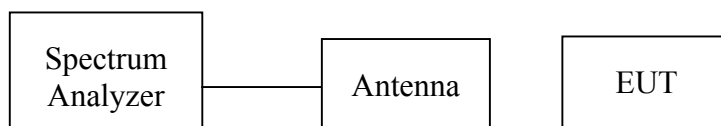
#### MEASUREMENT EQUIPMENT USED

Open Area Test Site: # K

| EQUIPMENT TYPE     | MFR       | MODEL NUMBER | SERIAL NUMBER | CAL. DUE                |
|--------------------|-----------|--------------|---------------|-------------------------|
| SITE NSA           | CCS       | K Site       | N/A           | 10/01/2006              |
| MEASURE RECEIVER   | SCHAFFNER | SCR3501      | 412           | 05/18/2007              |
| SPECTRUM ANALYZER  | ADVANTEST | R3132        | 120900029     | No Calibration Required |
| ANTENNA            | SCHAFFNER | CBL 6112B    | 2846          | 05/26/2007              |
| PRE-AMPLIFIER      | SCHAFFNER | CPA9231A     | 3639          | 10/08/2006              |
| CABLE              | SUHNER    | RG 214       | N-TYPE #K2    | 02/17/2007              |
| THERMO-HYGRO METER | TFA       | N/A          | NO.4          | 02/08/2007              |

*Note: Each piece of equipment is scheduled for calibration once a year.*

#### Test Configuration



#### TEST PROCEDURE

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=10kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
4. Mark the peak frequency and 26dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.



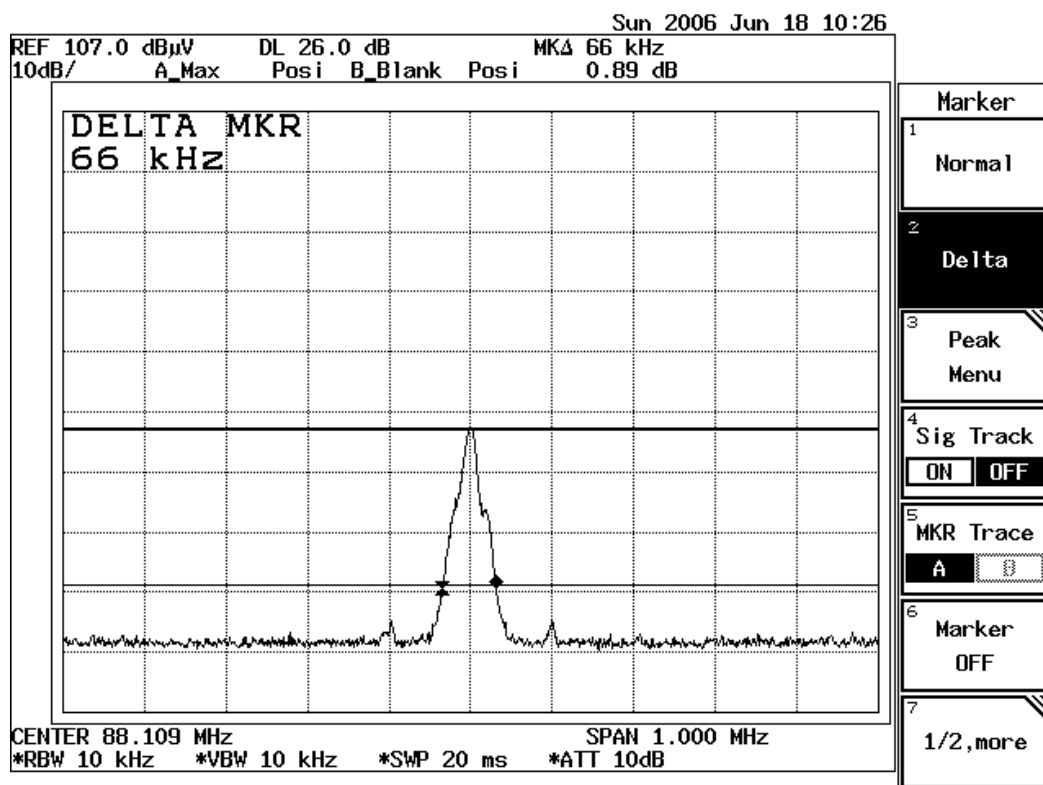
## TEST RESULTS

*No non-compliance noted*

### Test Data

| Channel | Frequency (MHz) | Bandwidth (kHz) |
|---------|-----------------|-----------------|
| 1       | 88.109          | 66              |

### Test Data Plot





## 7.2 RADIATED EMISSIONS

### LIMIT

1. The field strength of any emission within this band (section 15.239 frequency between 88 MHz –108 MHz) shall not exceed 250 microvolts /meter at 3 meters. (48dB $\mu$ V/m at 3m) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit), as below.

| Frequency (MHz) | Field Strength (mV/m) | Measurement Distance (m) |
|-----------------|-----------------------|--------------------------|
| 1.705-30        | 30                    | 30                       |
| 30-88           | 100*                  | 3                        |
| 88-216          | 150*                  | 3                        |
| 216-960         | 200*                  | 3                        |
| Above 960       | 500                   | 3                        |

***Note:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

2. In the above emission table, the tighter limit applies at the band edges.

| Frequency (Hz) | Field Strength ( $\mu$ V/m at 3-meter) | Field Strength (dB $\mu$ V/m at 3-meter) |
|----------------|----------------------------------------|------------------------------------------|
| 1.705-30       | 30                                     | 69.54                                    |
| 30-88          | 100                                    | 40                                       |
| 88-216         | 150                                    | 43.5                                     |
| 216-960        | 200                                    | 46                                       |
| Above 960      | 500                                    | 54                                       |



## MEASUREMENT EQUIPMENT USED

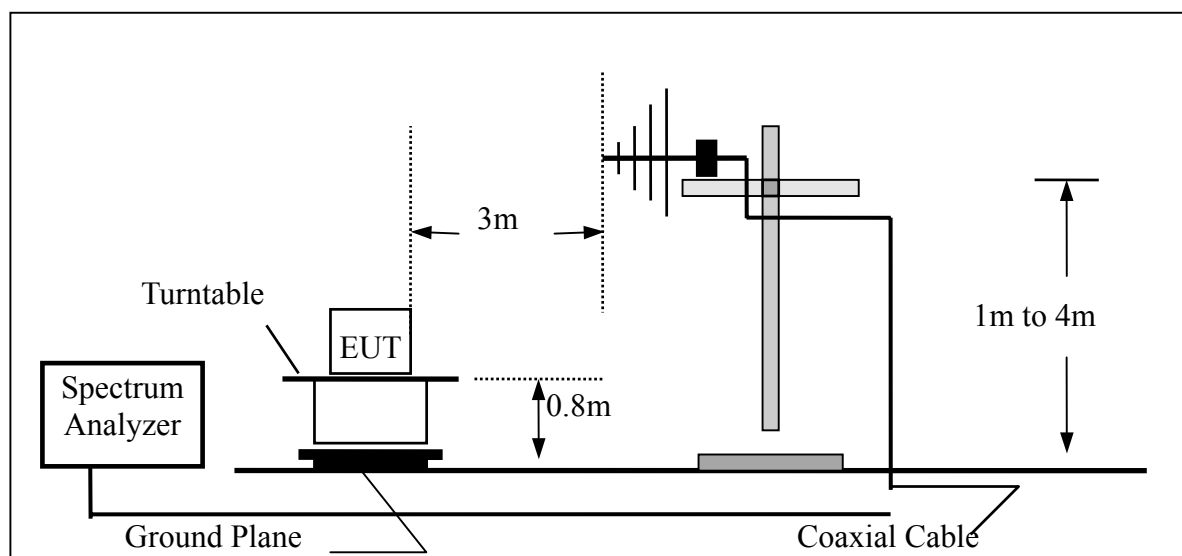
Open Area Test Site: # K

| EQUIPMENT TYPE     | MFR       | MODEL NUMBER | SERIAL NUMBER | CAL. DUE                |
|--------------------|-----------|--------------|---------------|-------------------------|
| SITE NSA           | CCS       | K Site       | N/A           | 10/01/2006              |
| MEASURE RECEIVER   | SCHAFFNER | SCR3501      | 412           | 05/18/2007              |
| SPECTRUM ANALYZER  | ADVANTEST | R3132        | 120900029     | No Calibration Required |
| ANTENNA            | SCHAFFNER | CBL 6112B    | 2846          | 05/26/2007              |
| PRE-AMPLIFIER      | SCHAFFNER | CPA9231A     | 3639          | 10/08/2006              |
| CABLE              | SUHNER    | RG 214       | N-TYPE #K2    | 02/17/2007              |
| THERMO-HYGRO METER | TFA       | N/A          | NO.4          | 02/08/2007              |

**Note:** The measurement uncertainty is less than  $\pm 3.36\text{dB}$ , which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CD

## Test Configuration

For Frequencies Below 1 GHz





## **TEST PROCEDURE**

1. The EUT was placed on a turntable, which was 0.8m above ground plane.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT was set at 3m away from the receiving antenna, which was varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was maximized by changing the polarization of receiving antenna, both horizontal and vertical.
6. Repeated above procedures until the measurements for all frequencies are completed.



## TEST RESULTS

### Test Data

We have tested three modes (X, Y, Z). Below is the worst mode (X axis) for final test.

### Frequencies for 88MHz - 108MHz:

**Date:** 2006-06-15

**Tested by:** Kevin Chang

**Temperature:** 30°C

**Humidity:** 48% RH

| Frequency<br>(MHz) | Reading<br>(dBuV) | Correction Factor<br>(dBuV/m) | FS<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Mode<br>(P/A) | Ant.Pol.<br>H/V |
|--------------------|-------------------|-------------------------------|----------------|-------------------|----------------|---------------------------|-----------------|
| 88.10              | 38.40             | -1.63                         | 36.77          | 48.00             | -11.23         | P                         | V               |
| 98.10              | 32.80             | -2.18                         | 30.62          | 48.00             | -17.38         | P                         | V               |
| 107.90             | 27.10             | -6.59                         | 20.51          | 48.00             | -27.49         | P                         | V               |
|                    |                   |                               |                |                   |                |                           |                 |
| 88.10              | 40.81             | -1.12                         | 39.69          | 48.00             | -8.31          | P                         | H               |
| 98.10              | 32.70             | -7.79                         | 24.91          | 48.00             | -23.09         | P                         | H               |
| 107.90             | 27.30             | -8.89                         | 18.41          | 48.00             | -29.59         | P                         | H               |

### **Remark:**

1. Measuring frequencies from 88MHz to the 108MHz .
2. Datas of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. The IF bandwidth of SPA between 88MHz to 108MHz was 10kHz.
4. Ant. Pol = Antenna Polarization / FS = Field strength

**Frequencies for 30MHz-1GHz:****Date:** 2006-05-26**Tested by:** Kevin Chang**Temperature:** 35°C**Humidity:** 50% RH

| Frequency<br>(MHz) | Reading<br>(dBuV) | Correction Factor<br>(dBuV/m) | FS<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Mode<br>(P/A) | Ant.Pol.<br>H/V |
|--------------------|-------------------|-------------------------------|----------------|-------------------|----------------|---------------------------|-----------------|
| 424.78             | 26.13             | -5.78                         | 31.91          | 46.00             | -19.87         | P                         | V               |
| 429.94             | 28.22             | -5.61                         | 33.83          | 46.00             | -17.78         | P                         | V               |
| 437.26             | 28.20             | -5.36                         | 33.56          | 46.00             | -17.80         | P                         | V               |
| 438.18             | 27.78             | -5.32                         | 33.10          | 46.00             | -18.22         | P                         | V               |
| 440.46             | 27.05             | -5.25                         | 32.30          | 46.00             | -18.95         | P                         | V               |
| 445.98             | 25.68             | -5.06                         | 30.74          | 46.00             | -20.32         | P                         | V               |
|                    |                   |                               |                |                   |                |                           |                 |
| 425.94             | 25.60             | -5.74                         | 31.34          | 46.00             | -20.40         | P                         | H               |
| 429.94             | 29.86             | -5.61                         | 35.47          | 46.00             | -16.14         | P                         | H               |
| 438.58             | 26.57             | -5.31                         | 31.88          | 46.00             | -19.43         | P                         | H               |
| 440.50             | 26.40             | -5.24                         | 31.64          | 46.00             | -19.60         | P                         | H               |
| 444.26             | 26.26             | -5.12                         | 31.38          | 46.00             | -19.74         | P                         | H               |
| 449.10             | 27.00             | -4.95                         | 31.95          | 46.00             | -19.00         | P                         | H               |

**Remark:**

1. Measuring frequencies from 30 MHz to the 1GHz °
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/AV detector mode.
3. Datas of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured..
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.
5. Ant. Pol = Antenna Polarization / FS = Field strength





### **7.3 POWERLINE CONDUCTED EMISSIONS**

Not applicable, as it's power was supplied from DC Power Supply.

## APPENDIX 1 - PHOTOGRAPHS OF TEST SETUP

