

# **FCC RF Test Report**

APPLICANT : CT Asia

**EQUIPMENT**: GSM mobile phone

BRAND NAME : BLU
MODEL NAME : Hero II

FCC ID : YHLBLUHEROII

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Feb. 22, 2013 and completely tested on Mar. 18, 2013. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager





SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

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**REVISION HISTORY** 

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FR322205B  | Rev. 01 | Initial issue of report | Mar. 19, 2013 |
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**SUMMARY OF TEST RESULT** 

| Report<br>Section | FCC Rule              | IC Rule   | Description                 | Limit       | Result | Remark                                   |
|-------------------|-----------------------|-----------|-----------------------------|-------------|--------|--|
| 3.1               | 15.247(a)(2)          | A8.2(a)   | 6dB Bandwidth               | ≥ 0.5MHz    | Pass   | -  |
| 3.2               | 15.247(b)             | A8.4      | Power Output Measurement    | ≤ 30dBm     | Pass   | -  |
| 3.3               | 15.247(e)             | A8.2(b)   | Power Spectral Density      | ≤8dBm/3kHz  | Pass   | -  |
| 3.4               | 45 247/4\             | A8.5      | Conducted Band Edges        | 2040-       | Pass   | -  |
| 3.4               | 15.247(d)             | A6.5      | Conducted Spurious Emission | - ≤ 20dBc   | Pass   | -  |
| 2.5               | 45.047/4\             | 40.5      | Radiated Band Edges         | 15.209(a) & | Pass   | -  |
| 3.5               | 15.247(d)             | A8.5      | Radiated Spurious Emission  | 15.247(d)   | Pass   | Under limit<br>5.25 dB at<br>105.640 MHz |
| 3.6               | 15.207                | Gen 7.2.4 | AC Conducted Emission       | 15.207(a)   | Pass   | Under limit<br>9.55 dB at<br>0.440 MHz   |
| 3.7               | 15.203 &<br>15.247(b) | A8.4      | Antenna Requirement         | N/A         | Pass   | -  |

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1 General Description

### 1.1 Applicant

#### **CT** Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

#### 1.2 Manufacturer

#### WINGTECH GROUP INCORPORATION LIMITED

floor 1-3, YinFengDaSha, NO 5097, LuoSha Road, LuoHu District, ShenZhen, China

## 1.3 Feature of Equipment Under Test

| Product Feature                 |                               |  |  |  |  |  |  |
|---------------------------------|-------------------------------|--|--|--|--|--|--|
| Equipment                       | GSM mobile phone              |  |  |  |  |  |  |
| Brand Name                      | BLU                           |  |  |  |  |  |  |
| Model Name                      | Hero II                       |  |  |  |  |  |  |
| FCC ID                          | YHLBLUHEROII                  |  |  |  |  |  |  |
| EUT supports Radios application | GSM/GPRS/WLAN 11bgn/Bluetooth |  |  |  |  |  |  |
| HW Version                      | 92235_1_11                    |  |  |  |  |  |  |
| SW Version                      | BLU-EV02-V11-GENERIC          |  |  |  |  |  |  |
| EUT Stage                       | Production Unit               |  |  |  |  |  |  |

#### Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two different types of EUT. They are single SIM card mobile and dual SIM card mobile. The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM was the worst, so we choose dual SIM card mobile to perform all tests.

## 1.4 Product Specification of Equipment Under Test

| Product Specifica                 | tion subjective to this standard   |
|-----------------------------------|--|
| Tx/Rx Frequency Range             | 2412 MHz ~ 2462 MHz  |
| Number of Channels                | 11   |
| Carrier Frequency of Each Channel | 2412+(n-1)*5 MHz; n=1~11   |
| Maximum Output Power to Antenna   | 802.11b : 15.63 dBm (0.0366 W)<br>802.11g : 14.44 dBm (0.0278 W)<br>802.11n HT20 : 13.71 dBm (0.0235 W)<br>802.11n HT40 : 13.27 dBm (0.0212 W) |
| Antenna Type                      | PIFA Antenna type with gain -1.00 dBi  |
| Type of Modulation                | 802.11b: DSSS (DBPSK / DQPSK / CCK)<br>802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)   |

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## 1.5 Testing Site

| Test Site SPORTON INTERNATIONAL (KUNSHAN) INC. |  |                |           |                         |  |  |  |  |
|--|--|----------------|-----------|-------------------------|--|--|--|--|
| Took Oike                                      | No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. |                |           |                         |  |  |  |  |
| Test Site                                      | TEL: +86-0512-5790-0158                                    |                |           |                         |  |  |  |  |
| Location                                       | FAX: +86-0512-5790-0958                                    |                |           |                         |  |  |  |  |
| Took Cito No                                   | 5  | Sporton Site N | No.       | FCC/IC Registration No. |  |  |  |  |
| Test Site No.                                  | TH01-KS  | CO01-KS        | 03CH01-KS | 149928/4086E-1          |  |  |  |  |

## 1.6 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v02
- ANSI C63.4-2003 and ANSI C63.10-2009

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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#### **Test Configuration of Equipment Under Test** 2

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 KHz to 30 MHz) and radiated emission (9 KHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

### 2.1 Carrier Frequency Channel

| Frequency Band  | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|-----------------|---------|----------------|---------|----------------|
|                 | 1       | 2412           | 7       | 2442           |
|                 | 2       | 2417           | 8       | 2447           |
| 0400 0400 F MU- | 3       | 2422           | 9       | 2452           |
| 2400-2483.5 MHz | 4       | 2427           | 10      | 2457           |
|                 | 5       | 2432           | 11      | 2462           |
|                 | 6       | 2437           |         |                |

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2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and antenna configurations as following table and the highest power data rates were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

|         |           |                    | RF Power (dBm) |          |         |  |  |
|---------|-----------|--------------------|----------------|----------|---------|--|--|
| Channel | Frequency | DSSS Data Rate     |                |          |         |  |  |
|         |           | 1 Mbps             | 2 Mbps         | 5.5 Mbps | 11 Mbps |  |  |
| CH 01   | 2412 MHz  | 15.15              | 15.13          | 14.94    | 14.98   |  |  |
| CH 06   | 2437 MHz  | 15.37              | 15.35          | 15.07    | 15.11   |  |  |
| CH 11   | 2462 MHz  | <mark>15.63</mark> | 15.62          | 15.45    | 15.5    |  |  |

|         |           | 2.4GHz 802.11g RF Power (dBm) |           |            |            |            |            |            |            |  |
|---------|-----------|-------------------------------|-----------|------------|------------|------------|------------|------------|------------|--|
| Channel | Frequency |                               |           |            | OFDM D     | ata Rate   |            |            |            |  |
|         |           | 6<br>Mbps                     | 9<br>Mbps | 12<br>Mbps | 18<br>Mbps | 24<br>Mbps | 36<br>Mbps | 48<br>Mbps | 54<br>Mbps |  |
| CH 01   | 2412 MHz  | 14.01                         | 13.98     | 13.96      | 13.91      | 13.85      | 13.91      | 13.85      | 13.91      |  |
| CH 06   | 2437 MHz  | 13.94                         | 13.95     | 13.89      | 13.67      | 13.62      | 13.79      | 13.65      | 13.84      |  |
| CH 11   | 2462 MHz  | <mark>14.44</mark>            | 14.21     | 14.2       | 13.94      | 13.92      | 13.87      | 13.96      | 13.98      |  |

|         |           | 2.4GHz 802.11n HT20 RF Power (dBm) |       |       |       |       |       |       |       |  |
|---------|-----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|--|
| Channel | Frequency | OFDM Data Rate                     |       |       |       |       |       |       |       |  |
|         |           | MCS0                               | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |  |
| CH 01   | 2412 MHz  | 12.98                              | 12.91 | 12.78 | 12.67 | 12.7  | 12.88 | 12.25 | 12.31 |  |
| CH 06   | 2437 MHz  | 12.98                              | 12.89 | 12.79 | 12.84 | 12.91 | 12.86 | 12.73 | 12.67 |  |
| CH 11   | 2462 MHz  | 13.71                              | 13.15 | 13.08 | 13.1  | 12.96 | 12.89 | 12.93 | 12.88 |  |

|         |           |                    | 2     | .4GHz 80 | 2.11n HT | 40 RF Pc | wer (dBr | n)    |       |  |  |
|---------|-----------|--------------------|-------|----------|----------|----------|----------|-------|-------|--|--|
| Channel | Frequency | uency OFDM Data Ra |       |          |          |          |          | )     |       |  |  |
|         |           | MCS0               | MCS1  | MCS2     | MCS3     | MCS4     | MCS5     | MCS6  | MCS7  |  |  |
| CH 03   | 2422 MHz  | <b>13.27</b>       | 13.17 | 12.81    | 12.79    | 12.88    | 12.75    | 12.76 | 12.81 |  |  |
| CH 06   | 2437 MHz  | 12.95              | 12.87 | 12.79    | 12.81    | 12.74    | 12.69    | 12.92 | 12.81 |  |  |
| CH 09   | 2452 MHz  | 12.77              | 12.69 | 12.63    | 12.58    | 12.63    | 12.51    | 12.49 | 12.34 |  |  |

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2.3 Test Mode

Final results of test modes, data rates and test channels are shown as following table.

|                             |                                    | Test Cases             |                        |                        |
|-----------------------------|------------------------------------|------------------------|------------------------|------------------------|
|                             | Test Items                         | Mode                   | Data Rate              | Test Channel           |
|                             |                                    | 802.11b                | 1 Mbps                 | 1/6/11                 |
|                             | 6dB BW                             | 802.11g                | 6 Mbps                 | 1/6/11                 |
|                             | Power Spectral Density             | 802.11n HT20           | 6.5 Mbps               | 1/6/11                 |
|                             |                                    | 802.11n HT40           | 13.5 Mbps              | 3/6/9                  |
|                             |                                    | 802.11b                | 1 Mbps                 | 1/6/11                 |
|                             | Outside Bassass                    | 802.11g                | 6 Mbps                 | 1/6/11                 |
| O a sa descrito d           | Output Power                       | 802.11n HT20           | 6.5 Mbps               | 1/6/11                 |
| Conducted                   |                                    | 802.11n HT40           | 13.5 Mbps              | 3/6/9                  |
| TCs                         |                                    | 802.11b                | 1 Mbps                 | 1/11                   |
|                             | Conducted Band Educ                | 802.11g                | 6 Mbps                 | 1/11                   |
|                             | Conducted Band Edge                | 802.11n HT20           | 6.5 Mbps               | 1/11                   |
|                             |                                    | 802.11n HT40           | 13.5 Mbps              | 3/9                    |
|                             |                                    | 802.11b                | 1 Mbps                 | 1/6/11                 |
|                             | Conducted Spurious                 | 802.11g                | 6 Mbps                 | 1/6/11                 |
|                             | Emission                           | 802.11n HT20           | 6.5 Mbps               | 1/6/11                 |
|                             |                                    | 802.11n HT40           | 13.5 Mbps              | 3/6/9                  |
|                             |                                    | 802.11b                | 1 Mbps                 | 1/11                   |
|                             | Dedicted Band Edge                 | 802.11g                | 6 Mbps                 | 1/11                   |
|                             | Radiated Band Edge                 | 802.11n HT20           | 6.5 Mbps               | 1/11                   |
| Radiated                    |                                    | 802.11n HT40           | 13.5 Mbps              | 3/9                    |
| TCs                         |                                    | 802.11b                | 1 Mbps                 | 1/6/11                 |
|                             | Radiated Spurious                  | 802.11g                | 6 Mbps                 | 1/6/11                 |
|                             | Emission                           | 802.11n HT20           | 6.5 Mbps               | 1/6/11                 |
|                             |                                    | 802.11n HT40           | 13.5 Mbps              | 3/6/9                  |
| AC<br>Conducted<br>Emission | Mode 1 : GSM850 Idle +<br>Earphone | - WLAN Link + Bluetoot | h Link + USB Cable (Ch | arging from Adapter) + |

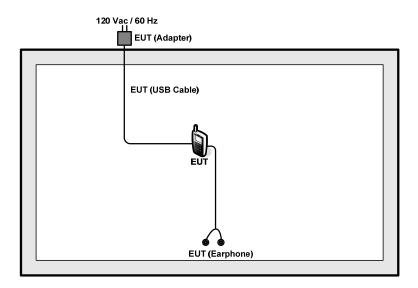
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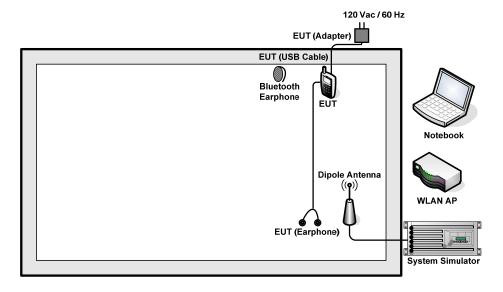


## 2.4 Connection Diagram of Test System

#### <WLAN Tx Mode>



#### <AC Conducted Emission Mode>



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## 2.5 Support Unit used in test configuration and system

| Item | Equipment             | Trade Name | Model Name | FCC ID      | Data Cable | Power Cord   |
|------|-----------------------|------------|------------|-------------|------------|--|
| 1.   | System Simulator      | R&S        | CMU 200    | N/A         | N/A        | Unshielded, 1.8 m  |
| 2.   | DC Power Supply       | GWINSTEK   | GPS-3030D  | N/A         | N/A        | Unshielded, 1.8 m  |
| 3.   | WLAN AP               | D-Link     | DIR-855    | KA2DIR855A2 | N/A        | Unshielded, 1.8 m  |
| 4.   | Notebook              | DELL       | VOSTRO1450 | PPD-AR5B195 | N/A        | AC I/P:<br>Unshielded, 1.8 m<br>DC O/P:<br>Shielded, 1.8 m |
| 5.   | Bluetooth<br>Earphone | Nokia      | BH-106     | QTLBH-106   | N/A        | N/A  |

## 2.6 RF Utility

For WLAN function, key in "\* #3646633#" on the EUT directly. Then, the EUT will get into the engineering modes to contact with WLAN AP for continuous transmitting and receiving signals.

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## 2.7 Measurement Results Explanation Example

#### For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and 10dB attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and 10dB attenuator factor.

Offset = RF cable loss + attenuator factor.

Following table shows an offset computation example with cable loss 5.6 dB.

#### Example:

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$
  
= 5.6 + 10 = 15.6 (dB)

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3 **Test Result** 

#### 3.1 6dB Bandwidth Measurement

#### 3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 KHz.

### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.1.3 Test Procedures

- The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v02.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 KHz.
- 5. Measure and record the results in the test report.

#### 3.1.4 Test Setup



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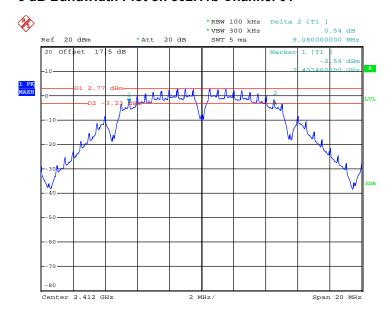


3.1.5 Test Result of 6dB Bandwidth

| Test Mode :     | 802.11b | Temperature :       | 20~21℃ |
|-----------------|---------|---------------------|--------|
| Test Engineer : | Zhi Lu  | Relative Humidity : | 40~41% |

| Channel | Frequency<br>(MHz) | 802.11b<br>6dB Bandwidth (MHz) | 6dB Bandwidth<br>Min. Limit (MHz) | Pass/Fail |
|---------|--------------------|--------------------------------|-----------------------------------|-----------|
| 01      | 2412               | 9.08                           | 0.5                               | Pass      |
| 06      | 2437               | 9.52                           | 0.5                               | Pass      |
| 11      | 2462               | 9.08                           | 0.5                               | Pass      |

#### 6 dB Bandwidth Plot on 802.11b Channel 01



Date: 4.MAR.2013 16:14:27

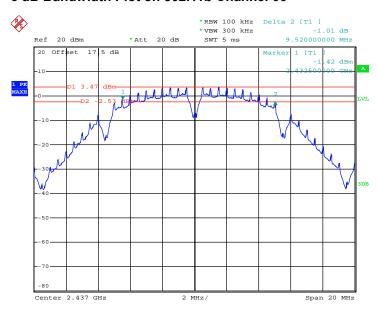
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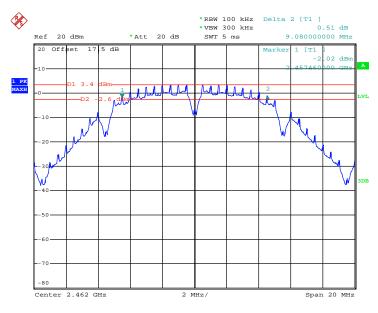


#### 6 dB Bandwidth Plot on 802.11b Channel 06



Date: 4.MAR.2013 16:18:16

#### 6 dB Bandwidth Plot on 802.11b Channel 11



Date: 4.MAR.2013 16:21:04

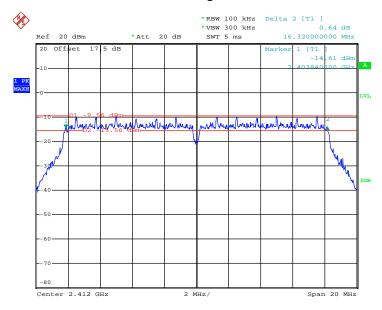
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| Test Mode :     | 802.11g | Temperature :       | 20~21℃ |
|-----------------|---------|---------------------|--------|
| Test Engineer : | Zhi Lu  | Relative Humidity : | 40~41% |

| Channel | Frequency<br>(MHz) | 802.11g<br>6dB Bandwidth (MHz) | 6dB Bandwidth<br>Min. Limit (MHz) | Pass/Fail |
|---------|--------------------|--------------------------------|-----------------------------------|-----------|
| 01      | 2412               | 16.32                          | 0.5                               | Pass      |
| 06      | 2437               | 16.32                          | 0.5                               | Pass      |
| 11      | 2462               | 16.32                          | 0.5                               | Pass      |

#### 6 dB Bandwidth Plot on 802.11g Channel 01



Date: 4.MAR.2013 16:30:16

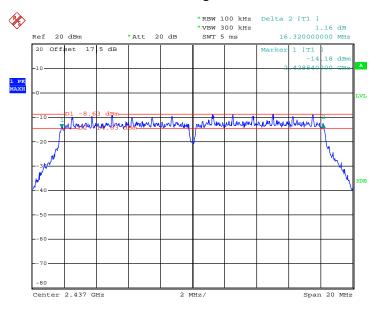
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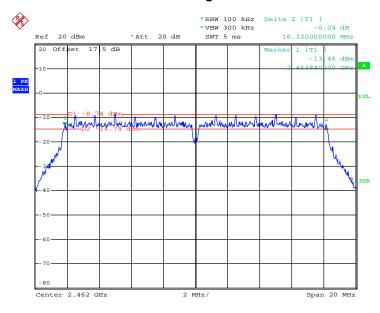


#### 6 dB Bandwidth Plot on 802.11g Channel 06



Date: 4.MAR.2013 16:33:20

#### 6 dB Bandwidth Plot on 802.11g Channel 11



Date: 4.MAR.2013 16:36:12

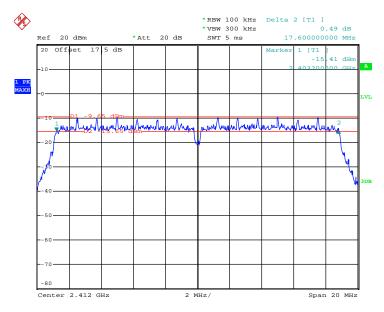
SPORTON INTERNATIONAL (KUNSHAN) INC.

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| Test Mode :     | 802.11n HT20 | Temperature :       | 20~21℃ |
|-----------------|--------------|---------------------|--------|
| Test Engineer : | Zhi Lu       | Relative Humidity : | 40~41% |

| Channel | Frequency<br>(MHz) | 2.4GHz 802.11n HT20<br>6dB Bandwidth (MHz) | 6dB Bandwidth<br>Min. Limit (MHz) | Pass/Fail |
|---------|--------------------|--|-----------------------------------|-----------|
| 01      | 2412               | 17.60                                      | 0.5                               | Pass      |
| 06      | 2437               | 17.56                                      | 0.5                               | Pass      |
| 11      | 2462               | 17.60                                      | 0.5                               | Pass      |

#### 6 dB Bandwidth Plot on 802.11n HT20 Channel 01



Date: 4.MAR.2013 16:44:45

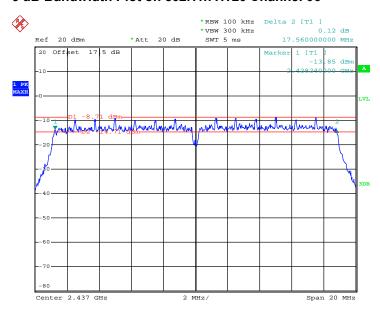
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 18 of 89
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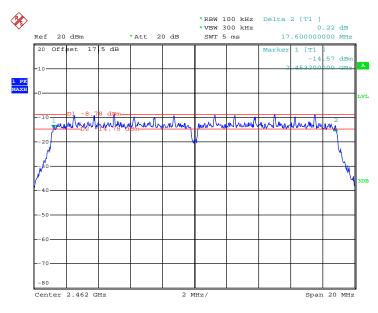


#### 6 dB Bandwidth Plot on 802.11n HT20 Channel 06



Date: 4.MAR.2013 16:47:58

#### 6 dB Bandwidth Plot on 802.11n HT20 Channel 11



Date: 4.MAR.2013 16:39:59

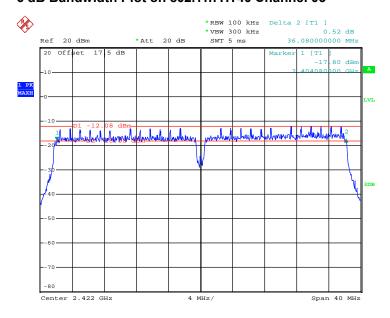
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| Test Mode :     | 802.11n HT40 | Temperature :       | 20~21℃ |
|-----------------|--------------|---------------------|--------|
| Test Engineer : | Zhi Lu       | Relative Humidity : | 40~41% |

| Channel | Frequency<br>(MHz) | 802.11n HT40<br>6dB Bandwidth (MHz) | 6dB Bandwidth<br>Min. Limit (MHz) | Pass/Fail |
|---------|--------------------|-------------------------------------|-----------------------------------|-----------|
| 03      | 2422               | 36.08                               | 0.5                               | Pass      |
| 06      | 2437               | 36.00                               | 0.5                               | Pass      |
| 09      | 2452               | 36.36                               | 0.5                               | Pass      |

#### 6 dB Bandwidth Plot on 802.11n HT40 Channel 03



Date: 4.MAR.2013 16:54:15

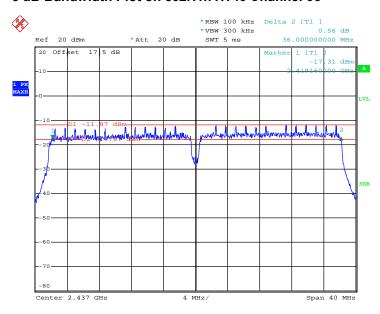
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 20 of 89
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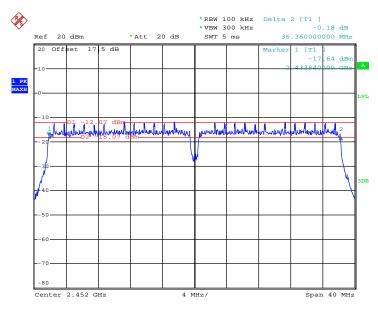


#### 6 dB Bandwidth Plot on 802.11n HT40 Channel 06



Date: 4.MAR.2013 16:51:25

#### 6 dB Bandwidth Plot on 802.11n HT40Channel 09



Date: 4.MAR.2013 17:00:02

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### 3.2 Output Power Measurement

#### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

#### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2.3 Test Procedures

- 1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v02.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- Measure the conducted output power and record the results in the test report. 4.

#### 3.2.4 Test Setup



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## 3.2.5 Test Result of Peak Output Power

| Test Mode :     | 802.11b | Temperature :       | 20~21℃ |
|-----------------|---------|---------------------|--------|
| Test Engineer : | Zhi Lu  | Relative Humidity : | 40~41% |

| Channel | Frequency<br>(MHz) | 802.11b<br>Peak Output Power (dBm) | Max. Limits<br>(dBm) | Pass/Fail |
|---------|--------------------|------------------------------------|----------------------|-----------|
| 01      | 2412               | 15.15                              | 30                   | Pass      |
| 06      | 2437               | 15.37                              | 30                   | Pass      |
| 11      | 2462               | 15.63                              | 30                   | Pass      |

| Test Mode :     | 802.11g | Temperature :       | 20~21℃ |
|-----------------|---------|---------------------|--------|
| Test Engineer : | Zhi Lu  | Relative Humidity : | 40~41% |

| Channel | Frequency<br>(MHz) | 802.11g<br>Peak Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|--------------------|------------------------------------|-------------------|-----------|
| 01      | 2412               | 14.01                              | 30                | Pass      |
| 06      | 2437               | 13.94                              | 30                | Pass      |
| 11      | 2462               | 14.44                              | 30                | Pass      |

| Test Mode :     | 802.11n HT20 | Temperature :       | 20~21℃ |
|-----------------|--------------|---------------------|--------|
| Test Engineer : | Zhi Lu       | Relative Humidity : | 40~41% |

| Channel | Frequency<br>(MHz) | 2.4GHz 802.11n HT20<br>Peak Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|--------------------|--|-------------------|-----------|
| 01      | 2412               | 12.98  | 30                | Pass      |
| 06      | 2437               | 12.98  | 30                | Pass      |
| 11      | 2462               | 13.71  | 30                | Pass      |

| Test Mode :     | 2.4GHz 802.11n HT40 | Temperature :       | 20~21℃ |
|-----------------|---------------------|---------------------|--------|
| Test Engineer : | Zhi Lu              | Relative Humidity : | 40~41% |

| Channel  | Frequency | 2.4GHz 802.11n HT40     | Max. Limits | Pass/Fail |  |
|----------|-----------|-------------------------|-------------|-----------|--|
| Chamilei | (MHz)     | Peak Output Power (dBm) | (dBm)       |           |  |
| 03       | 2422      | 13.27                   | 30          | Pass      |  |
| 06       | 2437      | 12.95                   | 30          | Pass      |  |
| 09       | 2452      | 12.77                   | 30          | Pass      |  |

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### 3.2.6 Test Result of Average output Power (Reporting Only)

| Test Mode :     | 802.11b | Temperature :       | 20~21℃ |
|-----------------|---------|---------------------|--------|
| Test Engineer : | Zhi Lu  | Relative Humidity : | 40~41% |
| Duty Cycle:     | 98.58%  | Duty Factor:        | 0.06dB |

| Channel | Frequency<br>(MHz) | 802.11b<br>Average Output Power (dBm) |
|---------|--------------------|---------------------------------------|
| 01      | 2412               | 12.32                                 |
| 06      | 2437               | 12.38                                 |
| 11      | 2462               | 12.89                                 |

| Test Mode :     | 802.11g | Temperature :       | 20~21℃ |
|-----------------|---------|---------------------|--------|
| Test Engineer : | Zhi Lu  | Relative Humidity : | 40~41% |
| Duty Cycle:     | 92.62%  | Duty Factor:        | 0.33dB |

| Channel | Frequency<br>(MHz) | 802.11g<br>Average Output Power (dBm) |
|---------|--------------------|---------------------------------------|
| 01      | 2412               | 2.34                                  |
| 06      | 2437               | 3.69                                  |
| 11      | 2462               | 4.31                                  |

| Test Mode :     | 802.11n HT20 | Temperature :       | 20~21℃ |
|-----------------|--------------|---------------------|--------|
| Test Engineer : | Zhi Lu       | Relative Humidity : | 40~41% |
| Duty Cycle:     | 92.24%       | Duty Factor:        | 0.35dB |

| Channel | Frequency<br>(MHz) | 802.11n HT20<br>Average Output Power (dBm) |
|---------|--------------------|--|
| 01      | 2412               | 2.68                                       |
| 06      | 2437               | 2.81                                       |
| 11      | 2462               | 3.34                                       |

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| Test Mode :     | 802.11n HT40 | Temperature :       | 20~21℃ |
|-----------------|--------------|---------------------|--------|
| Test Engineer : | Zhi Lu       | Relative Humidity : | 40~41% |
| Duty Cycle:     | 85.03%       | Duty Factor:        | 0.70dB |

| Channel | Frequency<br>(MHz) | 802.11n HT40<br>Average Output Power (dBm) |
|---------|--------------------|--|
| 03      | 2422               | 3.22                                       |
| 06      | 2437               | 2.76                                       |
| 09      | 2452               | 2.57                                       |

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3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3KHz band at any time interval of continuous transmission.

#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Test Procedures

- The testing follows Measurement Procedure 9.1 Option 1 of FCC KDB Publication No. 558074
   D01 DTS Meas. Guidance v02
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- Measure and record the results in the test report.

#### 3.3.4 Test Setup



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### 3.3.5 Test Result of Power Spectral Density

| Test Mode :     | 802.11b | Temperature :       | 20~21℃ |
|-----------------|---------|---------------------|--------|
| Test Engineer : | Zhi Lu  | Relative Humidity : | 40~41% |

| Channal | Frequency | 802.11b Po       | wer Density    | Max. Limits |           |
|---------|-----------|------------------|----------------|-------------|-----------|
| Channel | (MHz)     | PSD/100KHz (dBm) | PSD/3KHz (dBm) | (dBm/3KHz)  | Pass/Fail |
| 01      | 2412      | 2.66             | -11.52         | 8           | Pass      |
| 06      | 2437      | 3.47             | -10.95         | 8           | Pass      |
| 11      | 2462      | 3.40             | -10.89         | 8           | Pass      |

| Test Mode :     | 802.11g | Temperature :       | <b>20~21</b> ℃ |
|-----------------|---------|---------------------|----------------|
| Test Engineer : | Zhi Lu  | Relative Humidity : | 40~41%         |

| Frequency |       | 802.11g Power Density |                | Max. Limits | Dage/Fail |
|-----------|-------|-----------------------|----------------|-------------|-----------|
| Channel   | (MHz) | PSD/100KHz (dBm)      | PSD/3KHz (dBm) | (dBm/3KHz)  | Pass/Fail |
| 01        | 2412  | -9.66                 | -23.99         | 8           | Pass      |
| 06        | 2437  | -8.75                 | -22.78         | 8           | Pass      |
| 11        | 2462  | -9.03                 | -22.68         | 8           | Pass      |

| Test Mode :     | 802.11n HT20 | Temperature :       | <b>20~21</b> ℃ |
|-----------------|--------------|---------------------|----------------|
| Test Engineer : | Zhi Lu       | Relative Humidity : | 40~41%         |

| Channel Frequency |       | 802.11n HT20 Power Density |                | Max. Limits | Dece/Feil |
|-------------------|-------|----------------------------|----------------|-------------|-----------|
| Channel           | (MHz) | PSD/100KHz (dBm)           | PSD/3KHz (dBm) | (dBm/3KHz)  | Pass/Fail |
| 01                | 2412  | -9.78                      | -23.77         | 8           | Pass      |
| 06                | 2437  | -8.69                      | -23.31         | 8           | Pass      |
| 11                | 2462  | -9.10                      | -22.11         | 8           | Pass      |

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| Test Mode :     | 802.11n HT40 | Temperature :       | <b>20~21</b> ℃ |
|-----------------|--------------|---------------------|----------------|
| Test Engineer : | Zhi Lu       | Relative Humidity : | 40~41%         |

| Channel |       | 802.11n HT40 Power Density |                | Max. Limits | Dage/Fail |
|---------|-------|----------------------------|----------------|-------------|-----------|
| Channel | (MHz) | PSD/100KHz (dBm)           | PSD/3KHz (dBm) | (dBm/3KHz)  | Pass/Fail |
| 03      | 2422  | -12.25                     | -27.59         | 8           | Pass      |
| 06      | 2437  | -11.96                     | -26.35         | 8           | Pass      |
| 09      | 2452  | -12.02                     | -26.02         | 8           | Pass      |

#### Note:

- 1. Measured power density (dBm) has offset with cable loss.
- 2. The Measured power density (dBm)/ 100KHz is reference level and used as 20dBc down for Conducted Band Edges and Conducted Spurious Emission limit line.

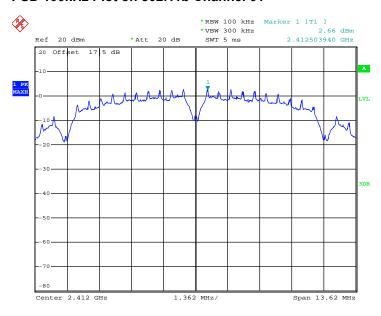
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### 3.3.6 Test Result of Power Spectral Density Plots (100kHz)

#### PSD 100kHz Plot on 802.11b Channel 01



Date: 4.MAR.2013 16:15:05

#### PSD 100kHz Plot on 802.11b Channel 06



Date: 4.MAR.2013 16:18:57

SPORTON INTERNATIONAL (KUNSHAN) INC.

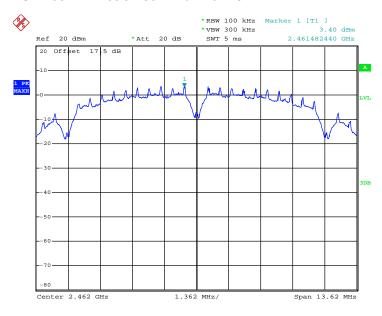
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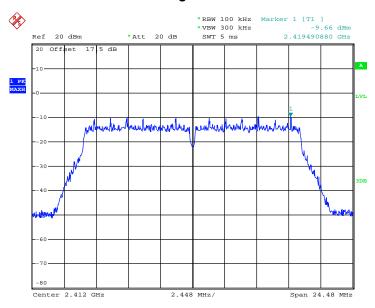


#### PSD 100kHz Plot on 802.11b Channel 11



Date: 4.MAR.2013 16:21:41

### PSD 100kHz Plot on 802.11g Channel 01

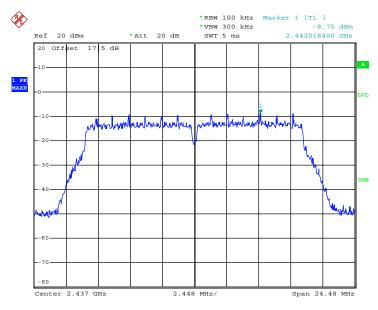


Date: 4.MAR.2013 16:31:00

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 30 of 89
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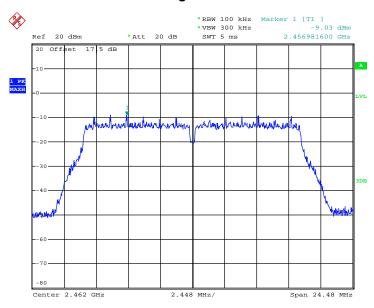






Date: 4.MAR.2013 16:34:01

### PSD 100kHz Plot on 802.11g Channel 11

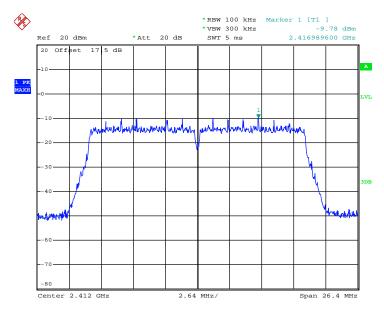


Date: 4.MAR.2013 16:36:59

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 31 of 89 Report Issued Date: Mar. 19, 2013 Report Version : Rev. 01







Date: 4.MAR.2013 16:45:26

#### PSD 100kHz Plot on 802.11n HT20 Channel 06

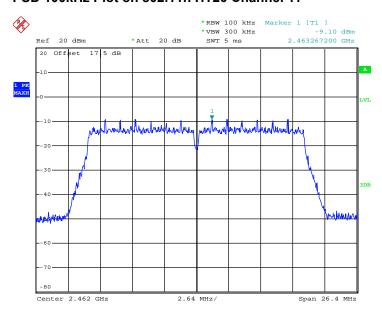


Date: 4.MAR.2013 16:48:39

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 32 of 89 Report Issued Date: Mar. 19, 2013 Report Version : Rev. 01

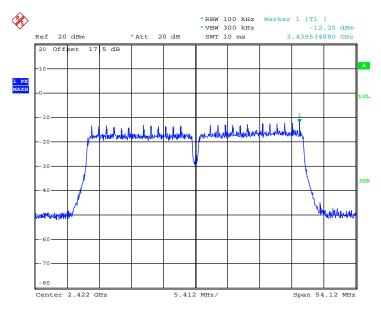


#### PSD 100kHz Plot on 802.11n HT20 Channel 11



Date: 4.MAR.2013 16:40:42

#### PSD 100kHz Plot on 802.11n HT40 Channel 03



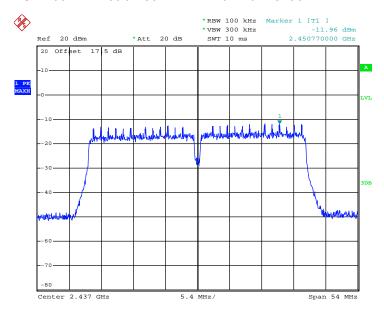
Date: 4.MAR.2013 16:55:49

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#### PSD 100kHz Plot on 802.11n HT40 Channel 06



Date: 4.MAR.2013 16:52:09

#### PSD 100kHz Plot on 802.11n HT40 Channel 09



Date: 4.MAR.2013 17:00:44

SPORTON INTERNATIONAL (KUNSHAN) INC.

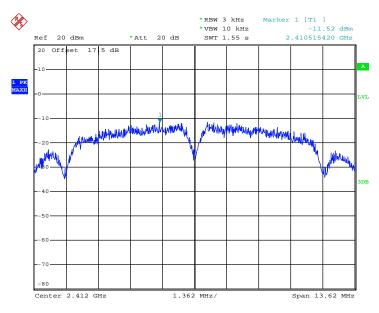
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 34 of 89 Report Issued Date: Mar. 19, 2013

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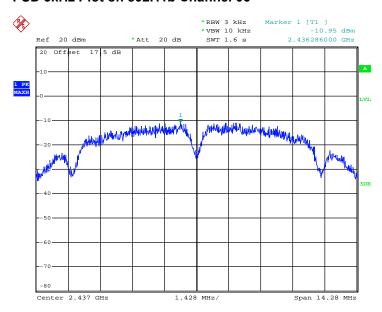
### 3.3.7 Test Result of Power Spectral Density Plots (3kHz)

#### PSD 3kHz Plot on 802.11b Channel 01



Date: 4.MAR.2013 16:14:52

#### PSD 3kHz Plot on 802.11b Channel 06

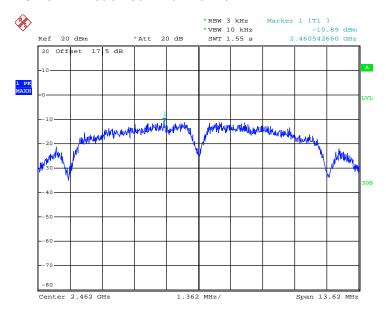


Date: 4.MAR.2013 16:18:44

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 35 of 89
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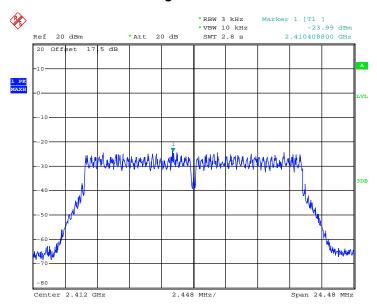


#### PSD 3kHz Plot on 802.11b Channel 11



Date: 4.MAR.2013 16:21:27

#### PSD 3kHz Plot on 802.11g Channel 01

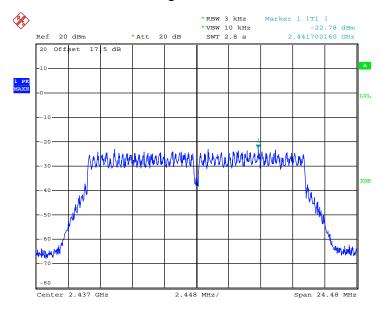


Date: 4.MAR.2013 16:30:46

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 36 of 89 Report Issued Date: Mar. 19, 2013 : Rev. 01 Report Version

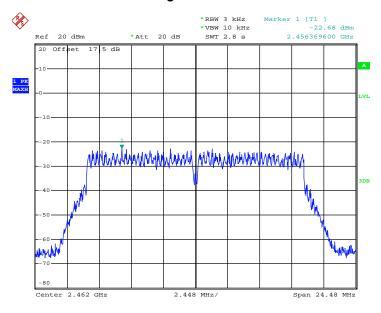


## PSD 3kHz Plot on 802.11g Channel 06



Date: 4.MAR.2013 16:33:48

## PSD 3kHz Plot on 802.11g Channel 11



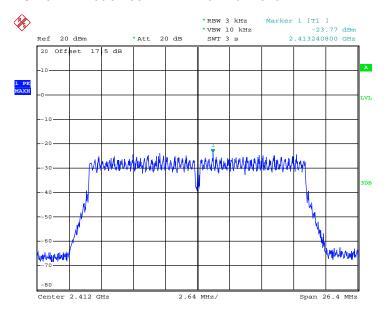
Date: 4.MAR.2013 16:36:47

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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 37 of 89 Report Issued Date: Mar. 19, 2013 Report Version : Rev. 01

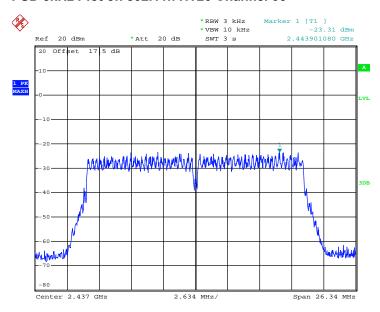


#### PSD 3kHz Plot on 802.11n HT20 Channel 01



Date: 4.MAR.2013 16:45:13

#### PSD 3kHz Plot on 802.11n HT20 Channel 06



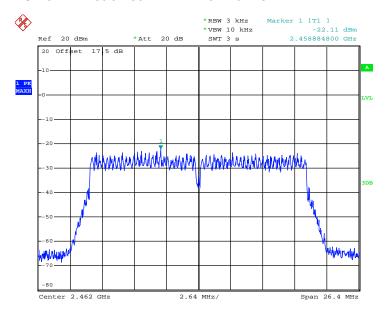
Date: 4.MAR.2013 16:48:27

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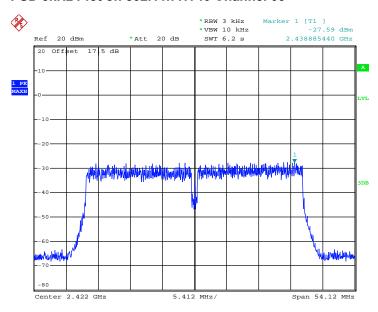


#### PSD 3kHz Plot on 802.11n HT20 Channel 11



Date: 4.MAR.2013 16:40:28

#### PSD 3kHz Plot on 802.11n HT40 Channel 03

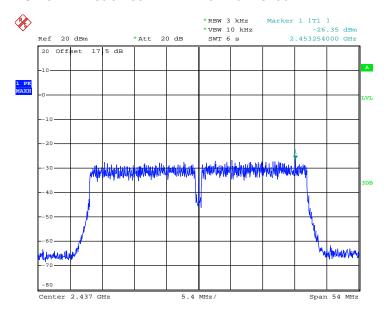


Date: 4.MAR.2013 16:55:16

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 39 of 89 Report Issued Date: Mar. 19, 2013 Report Version : Rev. 01

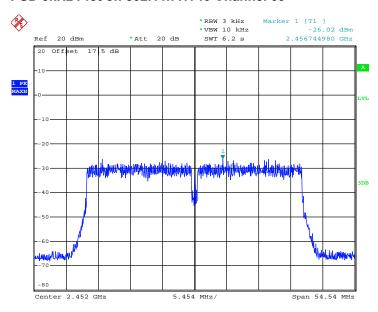


#### PSD 3kHz Plot on 802.11n HT40 Channel 06



Date: 4.MAR.2013 16:51:55

#### PSD 3kHz Plot on 802.11n HT40 Channel 09



Date: 4.MAR.2013 17:00:31

SPORTON INTERNATIONAL (KUNSHAN) INC.

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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and 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).

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v02.

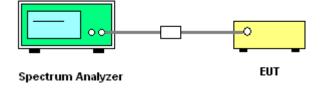
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

3. Set to the maximum power setting and enable the EUT transmit continuously.

Set RBW = 100 KHz, VBW=300 KHz, Peak Detector. Unwanted Emissions measured in any 4. 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz, when maximum peak conducted output power procedure is used. The attenuation is set to 30dB, when maximum conducted output power procedure is used.

5. Measure and record the results in the test report.

3.4.4 Test Setup



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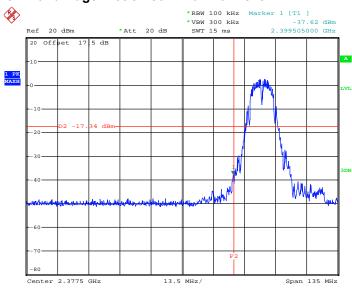
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3.4.5 Test Plots of Conducted Band Edges

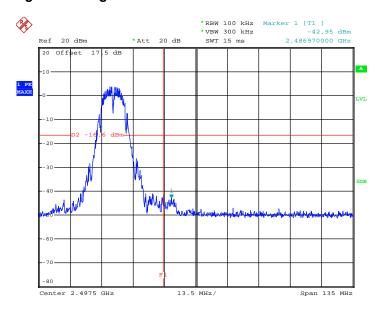
| Test Mode :    | 802.11b      | Temperature :       | 20~21℃ |
|----------------|--------------|---------------------|--------|
| Test Band :    | Low and High | Relative Humidity : | 40~41% |
| Test Channel : | 01 and 11    | Test Engineer :     | Zhi Lu |

## Low Band Edge Plot on 802.11b Channel 01



Date: 4.MAR.2013 16:15:59

## High Band Edge Plot on 802.11b Channel 11



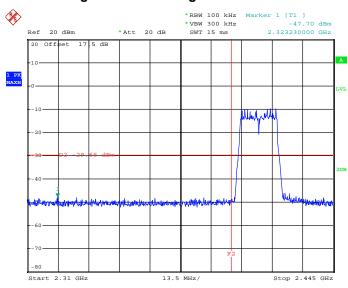
Date: 4.MAR.2013 16:26:20

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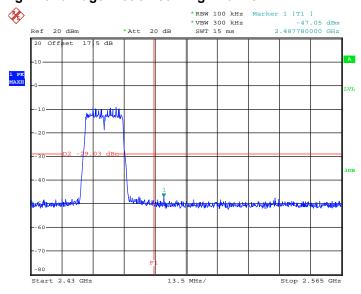
| Test Mode :    | 802.11g      | Temperature :       | 20~21℃ |
|----------------|--------------|---------------------|--------|
| Test Band :    | Low and High | Relative Humidity : | 40~41% |
| Test Channel : | 01 and 11    | Test Engineer :     | Zhi Lu |

## Low Band Edge Plot on 802.11g Channel 01



Date: 4.MAR.2013 16:31:20

## High Band Edge Plot on 802.11g Channel 11



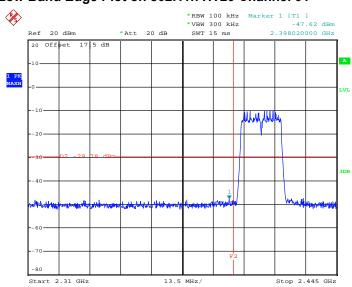
Date: 4.MAR.2013 16:37:39

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 43 of 89
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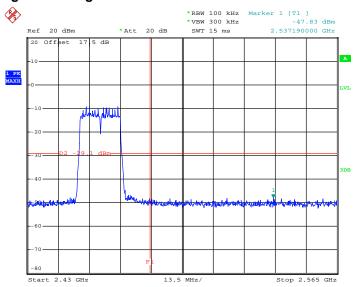
| Test Mode :    | 802.11n HT20 | Temperature :       | 20~21℃ |
|----------------|--------------|---------------------|--------|
| Test Band :    | Low and High | Relative Humidity : | 40~41% |
| Test Channel : | 01 and 11    | Test Engineer :     | Zhi Lu |

## Low Band Edge Plot on 802.11n HT20 Channel 01



Date: 4.MAR.2013 16:45:46

## High Band Edge Plot on 802.11n HT20 Channel 11



Date: 4.MAR.2013 16:41:44

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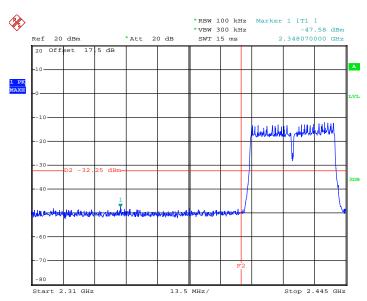
Report No.: FR322205B

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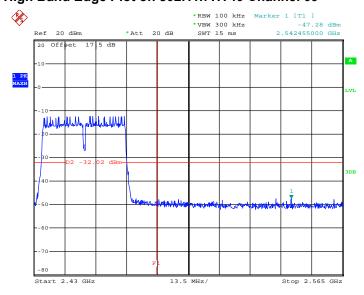
| Test Mode :    | 802.11n HT40 | Temperature :       | 20~21℃ |
|----------------|--------------|---------------------|--------|
| Test Band :    | Low and High | Relative Humidity : | 40~41% |
| Test Channel : | 03 and 09    | Test Engineer :     | Zhi Lu |

## Low Band Edge Plot on 802.11n HT40 Channel 03



Date: 4.MAR.2013 16:56:08

## High Band Edge Plot on 802.11n HT40 Channel 09



Date: 4.MAR.2013 17:01:02

SPORTON INTERNATIONAL (KUNSHAN) INC.

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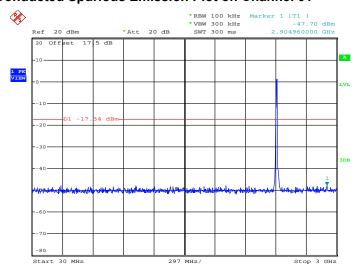


## 3.4.6 Test Plots of Spurious Emission

| Test Mode :    | 802.11b                 | Temperature :       | 20~21℃ |
|----------------|-------------------------|---------------------|--------|
| Test Band :    | 30MHz-3GHz and 2G-25GHz | Relative Humidity : | 40~41% |
| Test Channel : | 01, 06, 11              | Test Engineer :     | Zhi Lu |

#### 802.11b 30 MHz~3 GHz

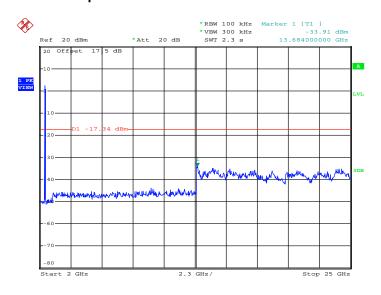
## **Conducted Spurious Emission Plot on Channel 01**



Date: 4.MAR.2013 16:16:25

## 802.11b 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 01**



Date: 4.MAR.2013 16:16:43

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 46 of 89
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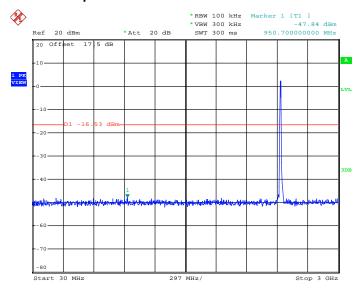
Report No.: FR322205B

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## 802.11b 30 MHz~3 GHz

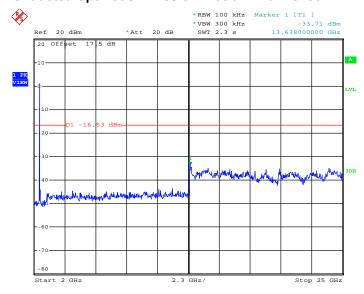
#### **Conducted Spurious Emission Plot on Channel 06**



Date: 4.MAR.2013 16:19:22

## 802.11b 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 06**



Date: 4.MAR.2013 16:19:41

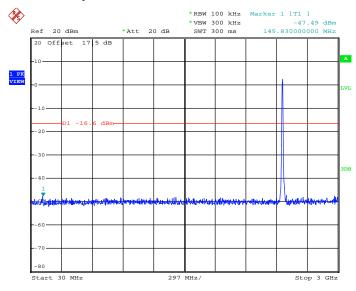
SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 47 of 89
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#### 802.11b 30 MHz~3 GHz

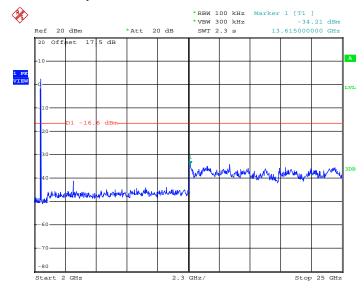
## **Conducted Spurious Emission Plot on Channel 11**



Date: 4.MAR.2013 16:26:48

## 802.11b 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 11**



Date: 4.MAR.2013 16:27:06

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII

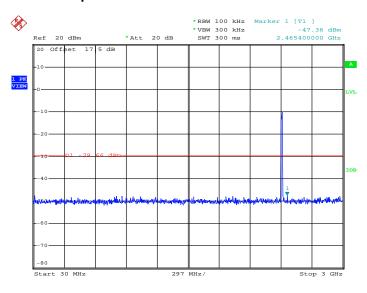
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| Test Mode :    | 802.11g                 | Temperature :       | 20~21℃ |
|----------------|-------------------------|---------------------|--------|
| Test Band :    | 30MHz-3GHz and 2G-25GHz | Relative Humidity : | 40~41% |
| Test Channel : | 01, 06, 11              | Test Engineer :     | Zhi Lu |

## 802.11g 30 MHz~3 GHz

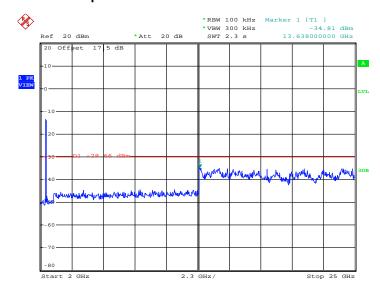
## **Conducted Spurious Emission Plot on Channel 01**



Date: 4.MAR.2013 16:31:44

# 802.11g 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 01**



Date: 4.MAR.2013 16:32:02

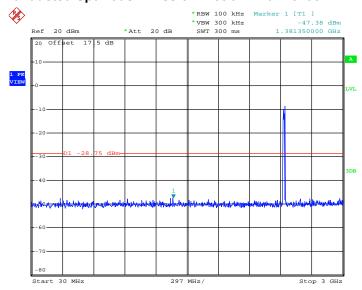
SPORTON INTERNATIONAL (KUNSHAN) INC.

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# 802.11g 30 MHz~3 GHz

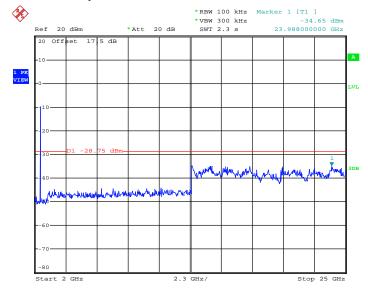
## **Conducted Spurious Emission Plot on Channel 06**



Date: 4.MAR.2013 16:34:26

## 802.11g 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 06**



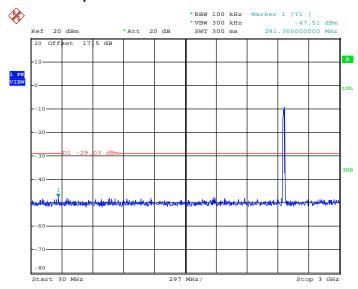
Date: 4.MAR.2013 16:34:44

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## 802.11g 30 MHz~3 GHz

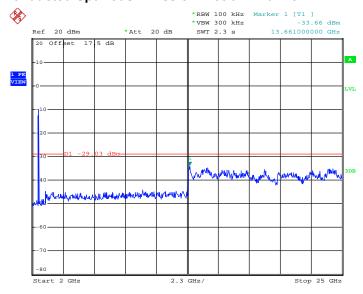
## **Conducted Spurious Emission Plot on Channel 11**



Date: 4.MAR.2013 16:38:08

## 802.11g 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 11**



Date: 4.MAR.2013 16:38:26

SPORTON INTERNATIONAL (KUNSHAN) INC.

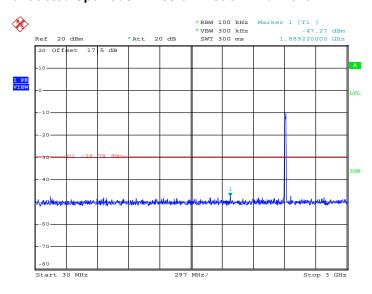
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUHEROII Page Number : 51 of 89 Report Issued Date: Mar. 19, 2013 : Rev. 01 Report Version



| Test Mode :    | 802.11n HT20            | Temperature :       | <b>20~21</b> ℃ |
|----------------|-------------------------|---------------------|----------------|
| Test Band :    | 30MHz-3GHz and 2G-25GHz | Relative Humidity : | 40~41%         |
| Test Channel : | 01, 06, 11              | Test Engineer :     | Zhi Lu         |

## 802.11n HT20 30 MHz~3 GHz

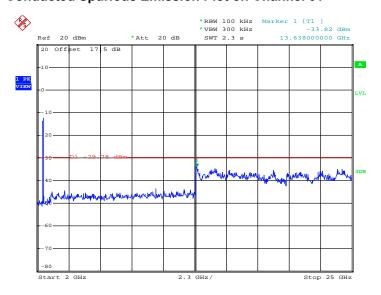
## **Conducted Spurious Emission Plot on Channel 01**



Date: 4.MAR.2013 16:46:14

#### 802.11n HT20 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 01**



Date: 4.MAR.2013 16:46:33

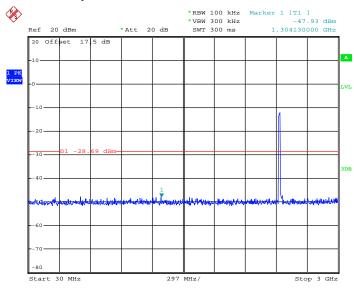
SPORTON INTERNATIONAL (KUNSHAN) INC.

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#### 802.11n HT20 30 MHz~3 GHz

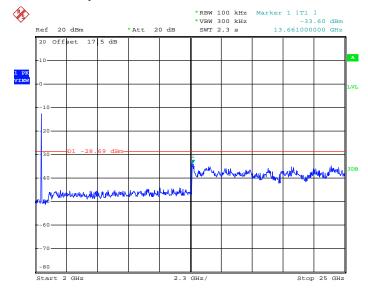
## **Conducted Spurious Emission Plot on Channel 06**



Date: 4.MAR.2013 16:49:04

## 802.11n HT20 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 06**



Date: 4.MAR.2013 16:49:23

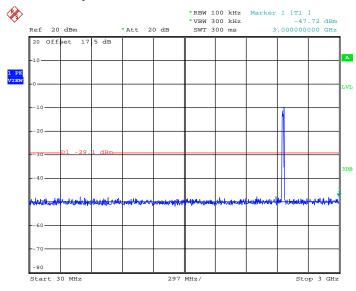
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#### 802.11n HT20 30 MHz~3 GHz

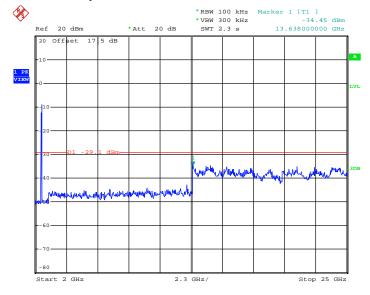
## **Conducted Spurious Emission Plot on Channel 11**



Date: 4.MAR.2013 16:42:15

## 802.11n HT20 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 11**



Date: 4.MAR.2013 16:42:34

SPORTON INTERNATIONAL (KUNSHAN) INC.

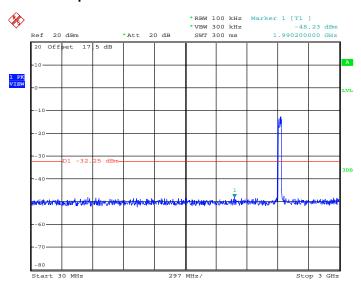
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| Test Mode :    | 802.11n HT40            | Temperature :       | 20~21  |
|----------------|-------------------------|---------------------|--------|
| Test Band :    | 30MHz-3GHz and 2G-25GHz | Relative Humidity : | 40~41  |
| Test Channel : | 03, 06, 09              | Test Engineer :     | Zhi Lu |

## 802.11n HT40 30 MHz~3 GHz

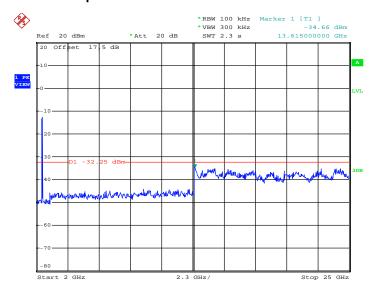
## **Conducted Spurious Emission Plot on Channel 03**



Date: 4.MAR.2013 16:58:50

#### 802.11n HT40 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 03**



Date: 4.MAR.2013 16:57:31

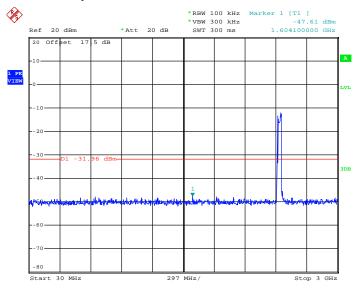
SPORTON INTERNATIONAL (KUNSHAN) INC.

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#### 802.11n HT40 30 MHz~3 GHz

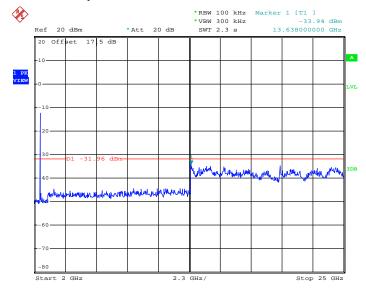
## **Conducted Spurious Emission Plot on Channel 06**



Date: 4.MAR.2013 16:52:36

## 802.11n HT40 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 06**



Date: 4.MAR.2013 16:52:54

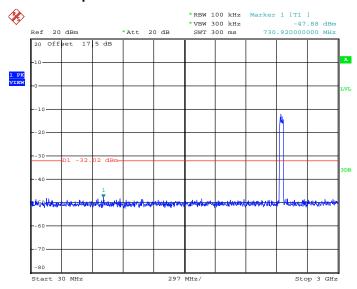
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## 802.11n HT40 30 MHz~3 GHz

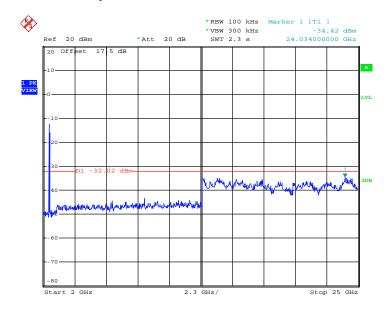
#### **Conducted Spurious Emission Plot on Channel 09**



Date: 4.MAR.2013 17:02:43

#### 802.11n HT40 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 09**



Date: 4.MAR.2013 17:01:57

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## 3.5 Radiated Emission Measurement

## 3.5.1 Limit of Radiated Emission

In any 100 KHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

| Frequency     | Field Strength     | Measurement Distance |
|---------------|--------------------|----------------------|
| (MHz)         | (microvolts/meter) | (meters)             |
| 0.009 - 0.490 | 2400/F(KHz)        | 300                  |
| 0.490 – 1.705 | 24000/F(KHz)       | 30                   |
| 1.705 – 30.0  | 30                 | 30                   |
| 30 – 88       | 100                | 3                    |
| 88 – 216      | 150                | 3                    |
| 216 - 960     | 200                | 3                    |
| Above 960     | 500                | 3                    |

## 3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

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#### 3.5.3 Test Procedures

- 1. The testing follows the guidelines in ANSI C63. 10-2009
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 KHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3MHz for  $f \ge 1$  GHz for peak measurement. For average measurement:
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

| Band              | Duty Cycle(%) | T(ms) | 1/T(KHz) | VBW Setting |
|-------------------|---------------|-------|----------|-------------|
| 802.11b           | 98.585        | -     | -        | 10Hz        |
| 802.11g           | 92.617        | 1.380 | 0.725    | 1KHz        |
| 2.4G 802.11n HT20 | 92.241        | 1.284 | 0.779    | 1KHz        |
| 2.4G 802.11n HT40 | 85.033        | 0.642 | 1.558    | 3KHz        |

**Note:** For average measurement with duty cycle < 98%, use reduced VBW measurement method 4.2.3.2.3 in ANSI C63.10.

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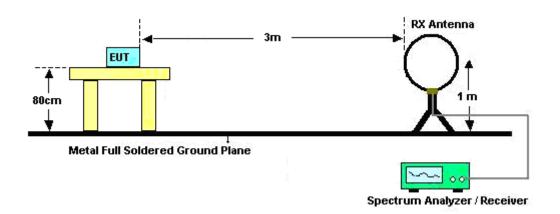
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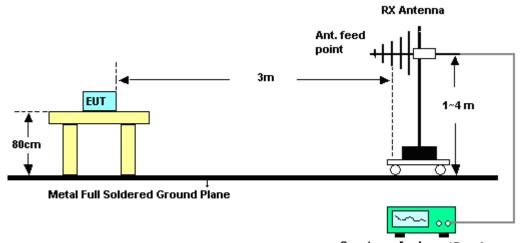


## 3.5.4 Test Setup

## For radiated emissions below 30MHz



#### For radiated emissions from 30MHz to 1GHz



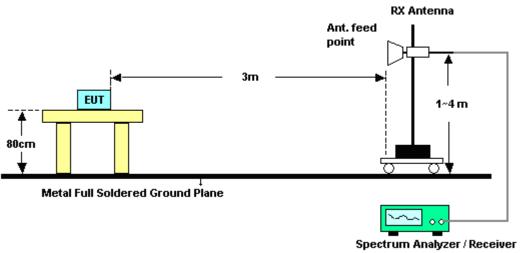
Spectrum Analyzer / Receiver

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For radiated emissions above 1GHz



## 3.5.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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# 3.5.6 Test Result of Radiated Band Edges

| Test Mode :    | 802.11b | Temperature :       | <b>23~24</b> ℃ |
|----------------|---------|---------------------|----------------|
| Test Band :    | Low     | Relative Humidity : | 43~44%         |
| Test Channel : | 01      | Test Engineer :     | Stone Gu       |

|           | ANTENNA POLARITY : HORIZONTAL |        |            |        |         |        |        |        |       |        |
|-----------|-------------------------------|--------|------------|--------|---------|--------|--------|--------|-------|--------|
| Frequency | Level                         | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark |
|           |                               | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos    | Pos   |        |
| (MHz)     | ( dBµV/m )                    | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |        |
| 2386.14   | 52.97                         | -21.03 | 74         | 49.53  | 32.85   | 2.1    | 31.51  | 125    | 10    | Peak   |
|           |                               |        |            |        | 1       |        | 1      | I      |       | 1      |

|           | ANTENNA POLARITY: VERTICAL |        |            |        |         |        |        |        |       |         |  |  |  |
|-----------|----------------------------|--------|------------|--------|---------|--------|--------|--------|-------|---------|--|--|--|
| Frequency | Level                      | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |  |  |  |
|           |                            | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |  |  |  |
| (MHz)     | ( dBµV/m )                 | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |  |
| 2376.6    | 52.12                      | -21.88 | 74         | 48.72  | 32.82   | 2.09   | 31.51  | 120    | 40    | Peak    |  |  |  |
| 2390      | 39.07                      | -14.93 | 54         | 35.63  | 32.85   | 2.1    | 31.51  | 120    | 40    | Average |  |  |  |

| Test Mode :    | 802.11b | Temperature :       | <b>23~24</b> ℃ |
|----------------|---------|---------------------|----------------|
| Test Band :    | High    | Relative Humidity : | 43~44%         |
| Test Channel : | 11      | Test Engineer :     | Stone Gu       |

|           | ANTENNA POLARITY : HORIZONTAL |        |            |        |         |        |        |        |       |         |  |  |
|-----------|-------------------------------|--------|------------|--------|---------|--------|--------|--------|-------|---------|--|--|
| Frequency | Level                         | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |  |  |
|           |                               | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |  |  |
| (MHz)     | ( dBµV/m )                    | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |
| 2487.13   | 56.22                         | -17.78 | 74         | 52.57  | 33.01   | 2.15   | 31.51  | 100    | 260   | Peak    |  |  |
| 2487.19   | 44.67                         | -9.33  | 54         | 41.02  | 33.01   | 2.15   | 31.51  | 100    | 260   | Average |  |  |

|           | ANTENNA POLARITY : VERTICAL |        |            |        |         |        |        |        |         |         |  |  |  |
|-----------|-----------------------------|--------|------------|--------|---------|--------|--------|--------|---------|---------|--|--|--|
| Frequency | Level                       | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant    | Table   | Remark  |  |  |  |
|           |                             | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos    | Pos     |         |  |  |  |
| (MHz)     | ( dBµV/m )                  | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | ( deg ) |         |  |  |  |
| 2487.31   | 56.03                       | -17.97 | 74         | 52.38  | 33.01   | 2.15   | 31.51  | 150    | 250     | Peak    |  |  |  |
| 2483.5    | 44.77                       | -9.23  | 54         | 41.12  | 33.01   | 2.15   | 31.51  | 150    | 250     | Average |  |  |  |

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| Test Mode :    | 802.11g | Temperature :       | <b>23~24</b> ℃ |
|----------------|---------|---------------------|----------------|
| Test Band :    | Low     | Relative Humidity : | 43~44%         |
| Test Channel : | 01      | Test Engineer :     | Stone Gu       |

|           | ANTENNA POLARITY : HORIZONTAL |        |            |        |         |        |        |        |       |        |  |  |
|-----------|-------------------------------|--------|------------|--------|---------|--------|--------|--------|-------|--------|--|--|
| Frequency | Level                         | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark |  |  |
|           |                               | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos    | Pos   |        |  |  |
| (MHz)     | ( dBµV/m )                    | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |        |  |  |
| 2368.41   | 52.93                         | -21.07 | 74         | 49.57  | 32.8    | 2.07   | 31.51  | 145    | 69    | Peak   |  |  |
|           |                               |        |            |        |         |        |        |        |       |        |  |  |

|           | ANTENNA POLARITY: VERTICAL |        |            |        |         |        |        |        |       |         |  |  |
|-----------|----------------------------|--------|------------|--------|---------|--------|--------|--------|-------|---------|--|--|
| Frequency | Level                      | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |  |  |
|           |                            | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |  |  |
| (MHz)     | ( dBµV/m )                 | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |
| 2326.02   | 53.27                      | -20.73 | 74         | 49.98  | 32.75   | 2.05   | 31.51  | 110    | 10    | Peak    |  |  |
| 2321.07   | 40.64                      | -13.36 | 54         | 37.35  | 32.75   | 2.05   | 31.51  | 110    | 10    | Average |  |  |

| Test Mode :    | 802.11g | Temperature :       | <b>23~24</b> ℃ |
|----------------|---------|---------------------|----------------|
| Test Band :    | High    | Relative Humidity : | 43~44%         |
| Test Channel : | 11      | Test Engineer :     | Stone Gu       |

|           | ANTENNA POLARITY : HORIZONTAL |        |            |        |         |        |        |        |       |         |  |  |  |
|-----------|-------------------------------|--------|------------|--------|---------|--------|--------|--------|-------|---------|--|--|--|
| Frequency | Level                         | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |  |  |  |
|           |                               | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |  |  |  |
| (MHz)     | ( dBµV/m )                    | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |  |
| 2486.14   | 53.73                         | -20.27 | 74         | 50.08  | 33.01   | 2.15   | 31.51  | 108    | 350   | Peak    |  |  |  |
| 2483.62   | 40.76                         | -13.24 | 54         | 37.11  | 33.01   | 2.15   | 31.51  | 108    | 350   | Average |  |  |  |

|           | ANTENNA POLARITY : VERTICAL |        |            |        |         |        |        |        |       |         |  |  |  |
|-----------|-----------------------------|--------|------------|--------|---------|--------|--------|--------|-------|---------|--|--|--|
| Frequency | Level                       | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |  |  |  |
|           |                             | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |  |  |  |
| (MHz)     | ( dBµV/m )                  | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |  |
| 2483.59   | 53.96                       | -20.04 | 74         | 50.31  | 33.01   | 2.15   | 31.51  | 105    | 30    | Peak    |  |  |  |
| 2485.03   | 40.73                       | -13.27 | 54         | 37.08  | 33.01   | 2.15   | 31.51  | 105    | 30    | Average |  |  |  |

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| Test Mode :    | 802.11n HT20 | Temperature :       | <b>23~24</b> ℃ |
|----------------|--------------|---------------------|----------------|
| Test Band :    | Low          | Relative Humidity : | 43~44%         |
| Test Channel : | 01           | Test Engineer :     | Stone Gu       |

|           | ANTENNA POLARITY : HORIZONTAL |        |            |        |         |        |        |        |       |         |  |  |  |
|-----------|-------------------------------|--------|------------|--------|---------|--------|--------|--------|-------|---------|--|--|--|
| Frequency | Level                         | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |  |  |  |
|           |                               | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |  |  |  |
| (MHz)     | ( dBµV/m )                    | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |  |
| 2314.95   | 53.56                         | -20.44 | 74         | 50.32  | 32.72   | 2.03   | 31.51  | 100    | 100   | Peak    |  |  |  |
| 2389.29   | 40.14                         | -13.86 | 54         | 36.7   | 32.85   | 2.1    | 31.51  | 100    | 100   | Average |  |  |  |

|   | ANTENNA POLARITY: VERTICAL |            |        |            |        |        |        |        |        |        |         |  |  |
|---|----------------------------|------------|--------|------------|--------|--------|--------|--------|--------|--------|---------|--|--|
| Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Re |                            |            |        |            |        |        |        |        |        | Remark |         |  |  |
|   |                            |            | Limit  | Line       | Level  | Factor | Loss   | Factor | Pos    | Pos    |         |  |  |
| ( N   | MHz)                       | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB ) | ( dB ) | ( dB ) | ( cm ) | (deg)  |         |  |  |
| 23  | 58.15                      | 52.35      | -21.65 | 74         | 48.99  | 32.8   | 2.07   | 31.51  | 110    | 50     | Peak    |  |  |
| 23  | 58.69                      | 39.76      | -14.24 | 54         | 36.4   | 32.8   | 2.07   | 31.51  | 110    | 50     | Average |  |  |

| Test Mode :    | 802.11n HT20 | Temperature :       | <b>23~24</b> ℃ |  |  |
|----------------|--------------|---------------------|----------------|--|--|
| Test Band :    | High         | Relative Humidity : | 43~44%         |  |  |
| Test Channel : | 11           | Test Engineer :     | Stone Gu       |  |  |

|  | ANTENNA POLARITY : HORIZONTAL |        |            |        |        |        |        |        |       |         |  |  |  |
|--|-------------------------------|--------|------------|--------|--------|--------|--------|--------|-------|---------|--|--|--|
| Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Remar |                               |        |            |        |        |        |        |        |       |         |  |  |  |
|  |                               | Limit  | Line       | Level  | Factor | Loss   | Factor | Pos    | Pos   |         |  |  |  |
| (MHz)  | ( dBµV/m )                    | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB ) | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |  |
| 2491.48  | 54.16                         | -19.84 | 74         | 50.47  | 33.04  | 2.16   | 31.51  | 110    | 10    | Peak    |  |  |  |
| 2484.34  | 40.99                         | -13.01 | 54         | 37.34  | 33.01  | 2.15   | 31.51  | 110    | 10    | Average |  |  |  |

|  | ANTENNA POLARITY : VERTICAL |        |            |        |        |        |        |        |       |         |  |  |  |
|--|-----------------------------|--------|------------|--------|--------|--------|--------|--------|-------|---------|--|--|--|
| Frequency Level Over Limit Read Antenna Cable Preamp Ant |                             |        |            |        |        |        |        |        | Table | Remark  |  |  |  |
|  |                             | Limit  | Line       | Level  | Factor | Loss   | Factor | Pos    | Pos   |         |  |  |  |
| (MHz)  | ( dBµV/m )                  | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB ) | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |  |
| 2488.84  | 53.73                       | -20.27 | 74         | 50.04  | 33.04  | 2.16   | 31.51  | 108    | 70    | Peak    |  |  |  |
| 2484.94  | 40.7                        | -13.3  | 54         | 37.05  | 33.01  | 2.15   | 31.51  | 108    | 70    | Average |  |  |  |

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| Test Mode :    | 802.11n HT40 | Temperature :       | <b>23~24</b> ℃ |  |  |
|----------------|--------------|---------------------|----------------|--|--|
| Test Band :    | Low          | Relative Humidity : | 43~44%         |  |  |
| Test Channel : | 03           | Test Engineer :     | Stone Gu       |  |  |

|  | ANTENNA POLARITY : HORIZONTAL |        |            |        |        |        |        |        |       |         |  |  |  |
|--|-------------------------------|--------|------------|--------|--------|--------|--------|--------|-------|---------|--|--|--|
| Frequency Level Over Limit Read Antenna Cable Preamp Ant T |                               |        |            |        |        |        |        |        | Table | Remark  |  |  |  |
|  |                               | Limit  | Line       | Level  | Factor | Loss   | Factor | Pos    | Pos   |         |  |  |  |
| (MHz)  | ( dBµV/m )                    | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB ) | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |  |
| 2389.74  | 52.35                         | -21.65 | 74         | 48.91  | 32.85  | 2.1    | 31.51  | 120    | 120   | Peak    |  |  |  |
| 2389.29  | 40.5                          | -13.5  | 54         | 37.06  | 32.85  | 2.1    | 31.51  | 120    | 120   | Average |  |  |  |

|   | ANTENNA POLARITY: VERTICAL |        |            |        |        |        |        |        |         |         |  |  |  |
|---|----------------------------|--------|------------|--------|--------|--------|--------|--------|---------|---------|--|--|--|
| Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Rema |                            |        |            |        |        |        |        |        |         |         |  |  |  |
|   |                            | Limit  | Line       | Level  | Factor | Loss   | Factor | Pos    | Pos     |         |  |  |  |
| (MHz)   | ( dBµV/m )                 | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) |         |  |  |  |
| 2364.27   | 52.52                      | -21.48 | 74         | 49.16  | 32.8   | 2.07   | 31.51  | 108    | 50      | Peak    |  |  |  |
| 2363.19   | 39.88                      | -14.12 | 54         | 36.52  | 32.8   | 2.07   | 31.51  | 108    | 50      | Average |  |  |  |

| Test Mode :    | 802.11n HT40 | Temperature :       | <b>23~24</b> ℃ |  |  |
|----------------|--------------|---------------------|----------------|--|--|
| Test Band :    | High         | Relative Humidity : | 43~44%         |  |  |
| Test Channel : | 09           | Test Engineer :     | Stone Gu       |  |  |

|  | ANTENNA POLARITY : HORIZONTAL |        |            |        |        |        |        |        |       |         |  |  |  |
|--|-------------------------------|--------|------------|--------|--------|--------|--------|--------|-------|---------|--|--|--|
| Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Remar |                               |        |            |        |        |        |        |        |       |         |  |  |  |
|  |                               | Limit  | Line       | Level  | Factor | Loss   | Factor | Pos    | Pos   |         |  |  |  |
| (MHz)  | ( dBµV/m )                    | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB ) | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |  |
| 2490.7   | 54.44                         | -19.56 | 74         | 50.75  | 33.04  | 2.16   | 31.51  | 140    | 100   | Peak    |  |  |  |
| 2484.91  | 41.61                         | -12.39 | 54         | 37.96  | 33.01  | 2.15   | 31.51  | 140    | 100   | Average |  |  |  |

|  | ANTENNA POLARITY : VERTICAL |        |            |        |        |        |        |        |       |         |  |  |  |
|--|-----------------------------|--------|------------|--------|--------|--------|--------|--------|-------|---------|--|--|--|
| Frequency Level Over Limit Read Antenna Cable Preamp Ant |                             |        |            |        |        |        |        |        | Table | Remark  |  |  |  |
|  |                             | Limit  | Line       | Level  | Factor | Loss   | Factor | Pos    | Pos   |         |  |  |  |
| (MHz)  | ( dBµV/m )                  | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB ) | ( dB ) | ( dB ) | ( cm ) | (deg) |         |  |  |  |
| 2484.61  | 54.18                       | -19.82 | 74         | 50.53  | 33.01  | 2.15   | 31.51  | 124    | 276   | Peak    |  |  |  |
| 2484.28  | 41.4                        | -12.6  | 54         | 37.75  | 33.01  | 2.15   | 31.51  | 124    | 276   | Average |  |  |  |

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# 3.5.7 Test Result of Radiated Emission (30 MHz ~ 10<sup>th</sup> Harmonic)

NOTE: Below 1GHz for radiated emission measurement, pre-scanned all test modes and only choose the worst case mode was recorded in the report.

| Test Mode :     | 802 | 2.11b  | Temperature :          | 23~24℃                         |  |  |  |  |
|-----------------|-----|--|------------------------|--------------------------------|--|--|--|--|
| Test Channel :  | 01  |  | Relative Humidity :    | 43~44%                         |  |  |  |  |
| Test Engineer : | Sto | ne Gu  | Polarization :         | Horizontal                     |  |  |  |  |
|                 | 1.  | 2412 MHz is fundament  | al signal which can be | ignored.                       |  |  |  |  |
|                 | 2.  | 2399 MHz and 7236 MHz are not within restricted bands, and their lim |                        |                                |  |  |  |  |
| Remark :        |     | are 20dB below the highest emission level. For example, 98.53 dB     |                        |                                |  |  |  |  |
| Remark :        |     | 20dB = 78.53 dBuV/m.   |                        |                                |  |  |  |  |
|                 | 3.  | Average measurement  | was not performed if   | peak level went lower than the |  |  |  |  |
|                 |     | average limit.   |                        |                                |  |  |  |  |

| Frequency | Level      | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | ( dBµV/m ) | (dB)          | ( dBµV/m )    | (dBµV)        | ( dB )            | (dB)          | (dB)             | ( cm )     | (deg)        |         |
| 2399      | 55.1       | -23.43        | 78.53         | 51.66         | 32.85             | 2.1           | 31.51            | 144        | 0            | Peak    |
| 2412      | 92.8       | -             | -             | 89.32         | 32.88             | 2.11          | 31.51            | 144        | 0            | Average |
| 2412      | 98.53      | -             | -             | 95.05         | 32.88             | 2.11          | 31.51            | 144        | 0            | Peak    |
| 4824      | 48.94      | -25.06        | 74            | 42.24         | 35.16             | 3.08          | 31.54            | 124        | 75           | Peak    |
| 7236      | 47.03      | -31.5         | 78.53         | 38.6          | 36.16             | 3.22          | 30.95            | 108        | 265          | Peak    |

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| Test Mode :     | 802 | 2.11b  | Temperature :   | <b>23~24</b> ℃                    |  |  |  |  |
|-----------------|-----|--|---|-----------------------------------|--|--|--|--|
| Test Channel :  | 01  |  | Relative Humidity :   | 43~44%                            |  |  |  |  |
| Test Engineer : | Sto | one Gu   | Polarization :  | Vertical                          |  |  |  |  |
|                 | 1.  | 2412 MHz is fundamental signal which can be ignored. |   |                                   |  |  |  |  |
|                 | 2.  | 2399 MHz and 7236 MHz                                | Hz are not within restri  | cted bands, and their limit lines |  |  |  |  |
| Remark :        |     | are 20dB below the high                              | nest emission level.  |                                   |  |  |  |  |
|                 | 3.  | Average measurement                                  | Average measurement was not performed if peak level went lower than the |                                   |  |  |  |  |
|                 |     | average limit.                                       |   |                                   |  |  |  |  |

| Frequency | Level       | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant  | Table   | Remark  |
|-----------|-------------|--------|------------|--------|---------|--------|--------|------|---------|---------|
| / MILI— \ | ( dDu\//m \ | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos  | Pos     |         |
| (MHz)     | ( dBµV/m )  | (dB)   | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | (cm) | ( deg ) |         |
| 2399      | 55.91       | -22.47 | 78.38      | 52.47  | 32.85   | 2.1    | 31.51  | 129  | 47      | Peak    |
| 2412      | 92.98       | -      | -          | 89.5   | 32.88   | 2.11   | 31.51  | 129  | 47      | Average |
| 2412      | 98.38       | -      | -          | 94.9   | 32.88   | 2.11   | 31.51  | 129  | 47      | Peak    |
| 4824      | 49.31       | -24.69 | 74         | 42.61  | 35.16   | 3.08   | 31.54  | 115  | 98      | Peak    |
| 7236      | 47.66       | -30.72 | 78.38      | 39.23  | 36.16   | 3.22   | 30.95  | 112  | 245     | Peak    |

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| Test Mode :     | 802.11b                  | Temperature :          | <b>23~24</b> ℃                 |  |  |  |  |  |
|-----------------|--------------------------|------------------------|--------------------------------|--|--|--|--|--|
| Test Channel :  | 06                       | Relative Humidity :    | 43~44%                         |  |  |  |  |  |
| Test Engineer : | Stone Gu                 | Polarization :         | Horizontal                     |  |  |  |  |  |
|                 | 1. 2437 MHz is fundament | al signal which can be | ignored.                       |  |  |  |  |  |
| Remark :        | 2. Average measurement   | was not performed if   | peak level went lower than the |  |  |  |  |  |
|                 | average limit.           | average limit.         |                                |  |  |  |  |  |

| Frequency | Level      | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | ( dBµV/m ) | (dB)          | ( dBµV/m )    | (dBµV)        | ( dB )            | ( dB )        | ( dB )           | ( cm )     | (deg)        |         |
| 2437      | 93.69      | -             | -             | 90.13         | 32.94             | 2.13          | 31.51            | 142        | 0            | Average |
| 2437      | 99.13      | -             | -             | 95.57         | 32.94             | 2.13          | 31.51            | 142        | 0            | Peak    |
| 4874      | 49         | -25           | 74            | 42.23         | 35.18             | 3.11          | 31.52            | 109        | 65           | Peak    |
| 7311      | 51.55      | -22.45        | 74            | 43.1          | 36.19             | 3.2           | 30.94            | 128        | 20           | Peak    |

| Test Mode :     | 802.11b                  | Temperature :                    | <b>23~24</b> ℃                 |  |  |  |  |  |
|-----------------|--------------------------|----------------------------------|--------------------------------|--|--|--|--|--|
| Test Channel :  | 06                       | Relative Humidity :              | 43~44%                         |  |  |  |  |  |
| Test Engineer : | Stone Gu                 | Polarization :                   | Vertical                       |  |  |  |  |  |
|                 | 1. 2437 MHz is fundament | tal signal which can be ignored. |                                |  |  |  |  |  |
| Remark :        | 2. Average measurement   | was not performed if             | peak level went lower than the |  |  |  |  |  |
|                 | average limit.           | average limit.                   |                                |  |  |  |  |  |

| Frequency | Level         | Over   | Limit           | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |
|-----------|---------------|--------|-----------------|--------|---------|--------|--------|--------|-------|---------|
|           |               | Limit  | Line            | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |
| (MHz)     | $(dB\mu V/m)$ | ( dB ) | ( $dB\mu V/m$ ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |
| 2437      | 94.11         | -      | -               | 90.55  | 32.94   | 2.13   | 31.51  | 100    | 43    | Average |
| 2437      | 99.33         | -      | -               | 95.77  | 32.94   | 2.13   | 31.51  | 100    | 43    | Peak    |
| 4874      | 48.57         | -25.43 | 74              | 41.8   | 35.18   | 3.11   | 31.52  | 107    | 36    | Peak    |
| 7311      | 47.17         | -26.83 | 74              | 38.72  | 36.19   | 3.2    | 30.94  | 100    | 225   | Peak    |

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| Test Mode :     | 802.11b  | Temperature :          | 23~24℃     |  |  |  |  |
|-----------------|--|------------------------|------------|--|--|--|--|
| Test Channel :  | 11   | Relative Humidity :    | 43~44%     |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :         | Horizontal |  |  |  |  |
|                 | 1. 2462 MHz is fundament   | al signal which can be | ignored.   |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower than the |                        |            |  |  |  |  |
|                 | average limit.   |                        |            |  |  |  |  |

| Frequency | Level      | Over          | Limit              | Read            | Antenna       | Cable        | Preamp      | Ant         | Table          | Remark  |
|-----------|------------|---------------|--------------------|-----------------|---------------|--------------|-------------|-------------|----------------|---------|
| (MHz)     | ( dBµV/m ) | Limit<br>(dB) | Line<br>( dBµV/m ) | Level<br>(dBµV) | Factor ( dB ) | Loss<br>(dB) | Factor (dB) | Pos<br>(cm) | Pos<br>( deg ) |         |
| 40.56     | 25.99      | -14.01        | 40                 | 47.61           | 11.63         | 0.38         | 33.63       | -           | -              | Peak    |
| 59.86     | 28.02      | -11.98        | 40                 | 55.84           | 5.29          | 0.47         | 33.58       | -           | -              | Peak    |
| 83.23     | 30.15      | -9.85         | 40                 | 55.88           | 7.33          | 0.54         | 33.6        | 125         | 86             | Peak    |
| 109.8     | 29.77      | -13.73        | 43.5               | 50.99           | 11.79         | 0.59         | 33.6        | -           | -              | Peak    |
| 132.22    | 26.29      | -17.21        | 43.5               | 47.66           | 11.53         | 0.68         | 33.58       | -           | -              | Peak    |
| 259.23    | 27.15      | -18.85        | 46                 | 47.53           | 12.12         | 0.92         | 33.42       | -           | -              | Peak    |
| 2462      | 92.09      | -             | -                  | 88.48           | 32.98         | 2.14         | 31.51       | 110         | 360            | Average |
| 2462      | 97.94      | -             | -                  | 94.33           | 32.98         | 2.14         | 31.51       | 110         | 360            | Peak    |
| 4924      | 48.32      | -25.68        | 74                 | 41.51           | 35.18         | 3.14         | 31.51       | 120         | 260            | Peak    |
| 7386      | 45.64      | -28.36        | 74                 | 37.16           | 36.23         | 3.18         | 30.93       | 150         | 240            | Peak    |

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| Test Mode :     | 802.11b  | Temperature :                    | 23~24℃   |  |  |  |
|-----------------|--|----------------------------------|----------|--|--|--|
| Test Channel :  | 11   | Relative Humidity :              | 43~44%   |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :                   | Vertical |  |  |  |
|                 | 1. 2462 MHz is fundament   | tal signal which can be ignored. |          |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower than the |                                  |          |  |  |  |
|                 | average limit.   |                                  |          |  |  |  |

| Frequency | Level      | Over          | Limit              | Read            | Antenna       | Cable        | Preamp        | Ant         | Table          | Remark  |
|-----------|------------|---------------|--------------------|-----------------|---------------|--------------|---------------|-------------|----------------|---------|
| (MHz)     | ( dBµV/m ) | Limit<br>(dB) | Line<br>( dBµV/m ) | Level<br>(dBµV) | Factor ( dB ) | Loss<br>(dB) | Factor ( dB ) | Pos<br>(cm) | Pos<br>( deg ) |         |
| 41.42     | 28.7       | -11.3         | 40                 | 51.01           | 10.94         | 0.38         | 33.63         | -           | -              | Peak    |
| 84.11     | 29.17      | -10.83        | 40                 | 54.71           | 7.52          | 0.54         | 33.6          | -           | -              | Peak    |
| 105.64    | 38.25      | -5.25         | 43.5               | 60              | 11.27         | 0.58         | 33.6          | 108         | 70             | Peak    |
| 178.13    | 31.29      | -12.21        | 43.5               | 55.54           | 8.54          | 0.77         | 33.56         | -           | -              | Peak    |
| 261.98    | 31.1       | -14.9         | 46                 | 51.42           | 12.18         | 0.92         | 33.42         | -           | -              | Peak    |
| 382.59    | 30.19      | -15.81        | 46                 | 46.88           | 15.51         | 1.12         | 33.32         | -           | -              | Peak    |
| 2462      | 92.48      | -             | -                  | 88.87           | 32.98         | 2.14         | 31.51         | 100         | 44             | Average |
| 2462      | 98.59      | -             | -                  | 94.98           | 32.98         | 2.14         | 31.51         | 100         | 44             | Peak    |
| 4924      | 50.3       | -23.7         | 74                 | 43.49           | 35.18         | 3.14         | 31.51         | 117         | 54             | Peak    |
| 7386      | 50.31      | -23.69        | 74                 | 41.83           | 36.23         | 3.18         | 30.93         | 112         | 15             | Peak    |

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| Test Mode :     | 802 | 2.11g  | Temperature :            | <b>23~24</b> ℃                    |  |  |  |
|-----------------|-----|--|--------------------------|-----------------------------------|--|--|--|
| Test Channel :  | 01  |  | Relative Humidity :      | 43~44%                            |  |  |  |
| Test Engineer : | Sto | one Gu   | Polarization :           | Horizontal                        |  |  |  |
|                 | 1.  | 2412 MHz is fundamental signal which can be ignored. |                          |                                   |  |  |  |
|                 | 2.  | 2399 MHz and 7236 MHz                                | Hz are not within restri | cted bands, and their limit lines |  |  |  |
| Remark :        |     | are 20dB below the highest emission level.           |                          |                                   |  |  |  |
|                 | 3.  | Average measurement                                  | was not performed if     | peak level went lower than the    |  |  |  |
|                 |     | average limit.                                       |                          |                                   |  |  |  |

| Frequency | Level      | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | ( dBµV/m ) | (dB)          | ( dBµV/m )    | (dBµV)        | (dB)              | (dB)          | (dB)             | ( cm )     | ( deg )      |         |
| 2399      | 54.02      | -18.09        | 72.11         | 50.58         | 32.85             | 2.1           | 31.51            | 113        | 15           | Peak    |
| 2412      | 81.35      | -             | -             | 77.87         | 32.88             | 2.11          | 31.51            | 113        | 15           | Average |
| 2412      | 92.11      | -             | -             | 88.63         | 32.88             | 2.11          | 31.51            | 113        | 15           | Peak    |
| 4824      | 47.49      | -26.51        | 74            | 40.79         | 35.16             | 3.08          | 31.54            | 125        | 48           | Peak    |
| 7236      | 46.21      | -25.9         | 72.11         | 37.78         | 36.16             | 3.22          | 30.95            | 119        | 287          | Peak    |

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| Test Mode :     | 802 | 2.11g  | Temperature :       | <b>23~24</b> ℃ |  |  |  |  |  |
|-----------------|-----|--|---------------------|----------------|--|--|--|--|--|
| Test Channel :  | 01  |  | Relative Humidity : | 43~44%         |  |  |  |  |  |
| Test Engineer : | Sto | one Gu   | Polarization :      | Vertical       |  |  |  |  |  |
|                 | 1.  | 2412 MHz is fundamental signal which can be ignored.                         |                     |                |  |  |  |  |  |
|                 | 2.  | 2399 MHz and 7236 MHz are not within restricted bands, and their limit lines |                     |                |  |  |  |  |  |
| Remark :        |     | are 20dB below the highest emission level.                                   |                     |                |  |  |  |  |  |
|                 | 3.  | Average measurement was not performed if peak level went lower than the      |                     |                |  |  |  |  |  |
|                 |     | average limit.   |                     |                |  |  |  |  |  |

| Frequency | Level        | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant  | Table | Remark  |
|-----------|--------------|--------|------------|--------|---------|--------|--------|------|-------|---------|
| / MILI- \ | / dD::\//m \ | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos  | Pos   |         |
| (MHz)     | ( dBµV/m )   | (dB)   | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | (cm) | (deg) |         |
| 2399      | 51.7         | -19.89 | 71.59      | 48.26  | 32.85   | 2.1    | 31.51  | 121  | 11    | Peak    |
| 2412      | 79.65        | -      | -          | 76.17  | 32.88   | 2.11   | 31.51  | 121  | 11    | Average |
| 2412      | 91.59        | -      | -          | 88.11  | 32.88   | 2.11   | 31.51  | 121  | 11    | Peak    |
| 4824      | 47.81        | -26.19 | 74         | 41.11  | 35.16   | 3.08   | 31.54  | 143  | 289   | Peak    |
| 7236      | 47.45        | -24.14 | 71.59      | 39.02  | 36.16   | 3.22   | 30.95  | 118  | 325   | Peak    |

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| Test Mode :     | 802.11g  | Temperature :          | 23~24℃     |  |  |  |  |
|-----------------|--|------------------------|------------|--|--|--|--|
| Test Channel :  | 06   | Relative Humidity :    | 43~44%     |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :         | Horizontal |  |  |  |  |
|                 | 1. 2437 MHz is fundament   | al signal which can be | ignored.   |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower than the |                        |            |  |  |  |  |
|                 | average limit.   |                        |            |  |  |  |  |

| Frequency | Level      | Over<br>Limit | Limit<br>Line   | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|------------|---------------|-----------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | ( dBµV/m ) | (dB)          | ( $dB\mu V/m$ ) | (dBµV)        | ( dB )            | ( dB )        | ( dB )           | ( cm )     | (deg)        |         |
| 2437      | 82.2       | -             | -               | 78.64         | 32.94             | 2.13          | 31.51            | 112        | 100          | Average |
| 2437      | 92.7       | -             | -               | 89.14         | 32.94             | 2.13          | 31.51            | 112        | 100          | Peak    |
| 4874      | 47.43      | -26.57        | 74              | 40.66         | 35.18             | 3.11          | 31.52            | 159        | 60           | Peak    |
| 7311      | 46.25      | -27.75        | 74              | 37.8          | 36.19             | 3.2           | 30.94            | 149        | 86           | Peak    |

| Test Mode :     | 802.11g  | Temperature :  | 23~24℃   |  |  |  |  |
|-----------------|--|--|----------|--|--|--|--|
| Test Channel :  | 06   | Relative Humidity :                                  | 43~44%   |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :                                       | Vertical |  |  |  |  |
|                 | 1. 2437 MHz is fundament   | 2437 MHz is fundamental signal which can be ignored. |          |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower than the |  |          |  |  |  |  |
|                 | average limit.   |  |          |  |  |  |  |

| Frequency | Level         | Over   | Limit         | Read   | Antenna | Cable  | Preamp | Ant  | Table   | Remark  |
|-----------|---------------|--------|---------------|--------|---------|--------|--------|------|---------|---------|
|           |               | Limit  | Line          | Level  | Factor  | Loss   | Factor | Pos  | Pos     |         |
| (MHz)     | $(dB\mu V/m)$ | (dB)   | $(dB\mu V/m)$ | (dBµV) | ( dB )  | ( dB ) | ( dB ) | (cm) | ( deg ) |         |
| 2437      | 81.09         | -      | -             | 77.53  | 32.94   | 2.13   | 31.51  | 127  | 0       | Average |
| 2437      | 92.14         | -      | -             | 88.58  | 32.94   | 2.13   | 31.51  | 127  | 0       | Peak    |
| 4874      | 46.97         | -27.03 | 74            | 40.2   | 35.18   | 3.11   | 31.52  | 108  | 325     | Peak    |
| 7311      | 45.49         | -28.51 | 74            | 37.04  | 36.19   | 3.2    | 30.94  | 126  | 271     | Peak    |

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| Test Mode :     | 802.11g  | Temperature :          | <b>23~24</b> ℃ |  |  |  |  |  |
|-----------------|--|------------------------|----------------|--|--|--|--|--|
| Test Channel :  | 11   | Relative Humidity :    | 43~44%         |  |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :         | Horizontal     |  |  |  |  |  |
|                 | 1. 2462 MHz is fundament   | al signal which can be | ignored.       |  |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower than the |                        |                |  |  |  |  |  |
|                 | average limit.   | average limit.         |                |  |  |  |  |  |

| Frequency | Level         | Over<br>Limit | Limit<br>Line   | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|---------------|---------------|-----------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | $(dB\mu V/m)$ | (dB)          | ( $dB\mu V/m$ ) | (dBµV)        | ( dB )            | ( dB )        | ( dB )           | ( cm )     | (deg)        |         |
| 2462      | 81.75         | -             | -               | 78.14         | 32.98             | 2.14          | 31.51            | 113        | 30           | Average |
| 2462      | 92.97         | -             | -               | 89.36         | 32.98             | 2.14          | 31.51            | 113        | 30           | Peak    |
| 4924      | 48.76         | -25.24        | 74              | 41.95         | 35.18             | 3.14          | 31.51            | 108        | 321          | Peak    |
| 7386      | 48.3          | -25.7         | 74              | 39.82         | 36.23             | 3.18          | 30.93            | 115        | 248          | Peak    |

| Test Mode :     | 802.11g                  | Temperature :          | <b>23~24</b> ℃                 |  |  |  |  |
|-----------------|--------------------------|------------------------|--------------------------------|--|--|--|--|
| Test Channel :  | 11                       | Relative Humidity :    | 43~44%                         |  |  |  |  |
| Test Engineer : | Stone Gu                 | Polarization :         | Vertical                       |  |  |  |  |
|                 | 1. 2462 MHz is fundament | al signal which can be | ignored.                       |  |  |  |  |
| Remark :        | 2. Average measurement   | was not performed if   | peak level went lower than the |  |  |  |  |
|                 | average limit.           |                        |                                |  |  |  |  |

| Frequency | Level         | Over   | Limit         | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |
|-----------|---------------|--------|---------------|--------|---------|--------|--------|--------|-------|---------|
|           |               | Limit  | Line          | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |
| (MHz)     | $(dB\mu V/m)$ | ( dB ) | $(dB\mu V/m)$ | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |
| 2462      | 77.45         | -      | -             | 73.84  | 32.98   | 2.14   | 31.51  | 100    | 39    | Average |
| 2462      | 90.94         | -      | -             | 87.33  | 32.98   | 2.14   | 31.51  | 100    | 39    | Peak    |
| 4924      | 49.54         | -24.46 | 74            | 42.73  | 35.18   | 3.14   | 31.51  | 128    | 64    | Peak    |
| 7386      | 47.97         | -26.03 | 74            | 39.49  | 36.23   | 3.18   | 30.93  | 106    | 246   | Peak    |

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| Test Mode :     | 802 | 2.11n HT20   | Temperature :  | <b>23~24</b> ℃ |  |  |  |  |
|-----------------|-----|--|--|----------------|--|--|--|--|
| Test Channel :  | 01  |  | Relative Humidity :  | 43~44%         |  |  |  |  |
| Test Engineer : | Sto | one Gu   | Polarization :   | Horizontal     |  |  |  |  |
|                 | 1.  | 2412 MHz is fundamental signal which can be ignored. |  |                |  |  |  |  |
|                 | 2.  | 2399 MHz and 7236 MHz                                | 2399 MHz and 7236 MHz are not within restricted bands, and their limit lines |                |  |  |  |  |
| Remark :        |     | are 20dB below the highest emission level.           |  |                |  |  |  |  |
|                 | 3.  | Average measurement                                  | Average measurement was not performed if peak level went lower than the      |                |  |  |  |  |
|                 |     | average limit.                                       |  |                |  |  |  |  |

| Frequency | Level      | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | ( dBµV/m ) | (dB)          | ( dBµV/m )    | (dBµV)        | (dB)              | (dB)          | (dB)             | (cm)       | ( deg )      |         |
| 2399      | 52         | -20.06        | 72.06         | 48.56         | 32.85             | 2.1           | 31.51            | 116        | 104          | Peak    |
| 2412      | 81.6       | -             | -             | 78.12         | 32.88             | 2.11          | 31.51            | 116        | 104          | Average |
| 2412      | 92.06      | -             | -             | 88.58         | 32.88             | 2.11          | 31.51            | 116        | 104          | Peak    |
| 4824      | 47.66      | -26.34        | 74            | 40.96         | 35.16             | 3.08          | 31.54            | 125        | 86           | Peak    |
| 7236      | 46.78      | -25.28        | 72.06         | 38.35         | 36.16             | 3.22          | 30.95            | 115        | 68           | Peak    |

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| Test Mode :     | 802 | 2.11n HT20   | Temperature :       | <b>23~24</b> ℃ |  |  |  |  |
|-----------------|-----|--|---------------------|----------------|--|--|--|--|
| Test Channel :  | 01  |  | Relative Humidity : | 43~44%         |  |  |  |  |
| Test Engineer : | Sto | one Gu   | Polarization :      | Vertical       |  |  |  |  |
|                 | 1.  | 2412 MHz is fundamental signal which can be ignored.                         |                     |                |  |  |  |  |
|                 | 2.  | 2399 MHz and 7236 MHz are not within restricted bands, and their limit lines |                     |                |  |  |  |  |
| Remark :        |     | are 20dB below the highest emission level.                                   |                     |                |  |  |  |  |
|                 | 3.  | Average measurement was not performed if peak level went lower than the      |                     |                |  |  |  |  |
|                 |     | average limit.   |                     |                |  |  |  |  |

| Frequency | Level      | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | ( dBµV/m ) | (dB)          | ( dBµV/m )    | (dBµV)        | (dB)              | (dB)          | (dB)             | (cm)       | ( deg )      |         |
| 2399      | 50.63      | -19.56        | 70.19         | 47.19         | 32.85             | 2.1           | 31.51            | 100        | 49           | Peak    |
| 2412      | 79.87      | -             | -             | 76.39         | 32.88             | 2.11          | 31.51            | 100        | 49           | Average |
| 2412      | 90.19      | -             | -             | 86.71         | 32.88             | 2.11          | 31.51            | 100        | 49           | Peak    |
| 4824      | 46.79      | -27.21        | 74            | 40.09         | 35.16             | 3.08          | 31.54            | 100        | 225          | Peak    |
| 7236      | 44.99      | -25.2         | 70.19         | 36.56         | 36.16             | 3.22          | 30.95            | 155        | 243          | Peak    |

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| Test Mode :     | 802.11n HT20   | Temperature :  | 23~24℃     |  |  |  |  |  |
|-----------------|--|--|------------|--|--|--|--|--|
| Test Channel :  | 06   | Relative Humidity :                                  | 43~44%     |  |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :                                       | Horizontal |  |  |  |  |  |
|                 | 1. 2437 MHz is fundament   | 2437 MHz is fundamental signal which can be ignored. |            |  |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower th |  |            |  |  |  |  |  |
|                 | average limit.   |  |            |  |  |  |  |  |

| Frequency | Level         | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|---------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | $(dB\mu V/m)$ | (dB)          | ( dBµV/m )    | (dBµV)        | ( dB )            | ( dB )        | ( dB )           | ( cm )     | (deg)        |         |
| 2437      | 81.47         | -             | -             | 77.91         | 32.94             | 2.13          | 31.51            | 112        | 114          | Average |
| 2437      | 92.93         | -             | -             | 89.37         | 32.94             | 2.13          | 31.51            | 112        | 114          | Peak    |
| 4874      | 48.67         | -25.33        | 74            | 41.9          | 35.18             | 3.11          | 31.52            | 106        | 289          | Peak    |
| 7311      | 45.73         | -28.27        | 74            | 37.28         | 36.19             | 3.2           | 30.94            | 134        | 51           | Peak    |

| Test Mode :     | 802.11n HT20   | Temperature :  | <b>23~24</b> ℃ |  |  |  |  |  |
|-----------------|--|--|----------------|--|--|--|--|--|
| Test Channel :  | 06   | Relative Humidity :                                  | 43~44%         |  |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :                                       | Vertical       |  |  |  |  |  |
|                 | 1. 2437 MHz is fundament   | 2437 MHz is fundamental signal which can be ignored. |                |  |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower th |  |                |  |  |  |  |  |
|                 | average limit.   |  |                |  |  |  |  |  |

| Frequency | Level         | Over   | Limit         | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |
|-----------|---------------|--------|---------------|--------|---------|--------|--------|--------|-------|---------|
|           |               | Limit  | Line          | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |
| (MHz)     | $(dB\mu V/m)$ | ( dB ) | $(dB\mu V/m)$ | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |
| 2437      | 78.65         | -      | -             | 75.09  | 32.94   | 2.13   | 31.51  | 100    | 70    | Average |
| 2437      | 90.41         | -      | -             | 86.85  | 32.94   | 2.13   | 31.51  | 100    | 70    | Peak    |
| 4874      | 47.85         | -26.15 | 74            | 41.08  | 35.18   | 3.11   | 31.52  | 134    | 25    | Peak    |
| 7311      | 47.28         | -26.72 | 74            | 38.83  | 36.19   | 3.2    | 30.94  | 128    | 96    | Peak    |

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| Test Mode :     | 802.11n HT20  | Temperature :          | <b>23~24</b> ℃ |  |  |  |  |
|-----------------|---|------------------------|----------------|--|--|--|--|
| Test Channel :  | 11  | Relative Humidity :    | 43~44%         |  |  |  |  |
| Test Engineer : | Stone Gu  | Polarization :         | Horizontal     |  |  |  |  |
|                 | 1. 2462 MHz is fundament  | al signal which can be | ignored.       |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower t |                        |                |  |  |  |  |
|                 | average limit.  |                        |                |  |  |  |  |

| Frequency | Level      | Over<br>Limit | Limit<br>Line   | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|------------|---------------|-----------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | ( dBµV/m ) | (dB)          | ( $dB\mu V/m$ ) | (dBµV)        | ( dB )            | ( dB )        | ( dB )           | ( cm )     | (deg)        |         |
| 2462      | 82.21      | -             | -               | 78.6          | 32.98             | 2.14          | 31.51            | 111        | 8            | Average |
| 2462      | 92.73      | -             | -               | 89.12         | 32.98             | 2.14          | 31.51            | 111        | 8            | Peak    |
| 4924      | 48.33      | -25.67        | 74              | 41.52         | 35.18             | 3.14          | 31.51            | 114        | 50           | Peak    |
| 7386      | 46.01      | -27.99        | 74              | 37.53         | 36.23             | 3.18          | 30.93            | 114        | 68           | Peak    |

| Test Mode :     | 802.11n HT20   | Temperature :          | 23~24℃   |  |  |  |  |
|-----------------|--|------------------------|----------|--|--|--|--|
| Test Channel :  | 11   | Relative Humidity :    | 43~44%   |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :         | Vertical |  |  |  |  |
|                 | 1. 2462 MHz is fundament   | al signal which can be | ignored. |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower th |                        |          |  |  |  |  |
|                 | average limit.   |                        |          |  |  |  |  |

| Frequency | Level         | Over   | Limit         | Read   | Antenna | Cable  | Preamp | Ant    | Table | Remark  |
|-----------|---------------|--------|---------------|--------|---------|--------|--------|--------|-------|---------|
|           |               | Limit  | Line          | Level  | Factor  | Loss   | Factor | Pos    | Pos   |         |
| (MHz)     | $(dB\mu V/m)$ | (dB)   | $(dB\mu V/m)$ | (dBµV) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | (deg) |         |
| 2462      | 78.52         | -      | -             | 74.91  | 32.98   | 2.14   | 31.51  | 100    | 71    | Average |
| 2462      | 88.53         | -      | -             | 84.92  | 32.98   | 2.14   | 31.51  | 100    | 71    | Peak    |
| 4924      | 49.98         | -24.02 | 74            | 43.17  | 35.18   | 3.14   | 31.51  | 116    | 256   | Peak    |
| 7386      | 46.83         | -27.17 | 74            | 38.35  | 36.23   | 3.18   | 30.93  | 108    | 306   | Peak    |

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| Test Mode :     | 802 | 2.11n HT40   | Temperature :       | <b>23~24</b> ℃ |  |  |  |  |  |
|-----------------|-----|--|---------------------|----------------|--|--|--|--|--|
| Test Channel :  | 03  |  | Relative Humidity : | 43~44%         |  |  |  |  |  |
| Test Engineer : | Sto | one Gu   | Polarization :      | Horizontal     |  |  |  |  |  |
|                 | 1.  | 1. 2422 MHz is fundamental signal which can be ignored.                          |                     |                |  |  |  |  |  |
|                 | 2.  | 2399 MHz MHz is not within restricted band, and its limit line is 20dB below the |                     |                |  |  |  |  |  |
| Remark :        |     | highest emission level.  |                     |                |  |  |  |  |  |
|                 | 3.  | . Average measurement was not performed if peak level went lower than the        |                     |                |  |  |  |  |  |
|                 |     | average limit.   |                     |                |  |  |  |  |  |

| Frequency | Level      | Over   | Limit      | Read   | Antenna | Cable  | Preamp | Ant  | Table | Remark  |
|-----------|------------|--------|------------|--------|---------|--------|--------|------|-------|---------|
|           |            | Limit  | Line       | Level  | Factor  | Loss   | Factor | Pos  | Pos   |         |
| (MHz)     | ( dBµV/m ) | (dB)   | ( dBµV/m ) | (dBµV) | ( dB )  | ( dB ) | ( dB ) | (cm) | (deg) |         |
| 2399      | 50.36      | -16.37 | 66.73      | 46.92  | 32.85   | 2.1    | 31.51  | 121  | 123   | Peak    |
| 2422      | 76.98      | -      | -          | 73.46  | 32.91   | 2.12   | 31.51  | 121  | 123   | Average |
| 2422      | 86.73      | -      | -          | 83.21  | 32.91   | 2.12   | 31.51  | 121  | 123   | Peak    |
| 4844      | 48.47      | -25.53 | 74         | 41.74  | 35.17   | 3.09   | 31.53  | 152  | 36    | Peak    |
| 7266      | 47.3       | -26.7  | 74         | 38.86  | 36.18   | 3.21   | 30.95  | 108  | 62    | Peak    |

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Test Mode: **23~24**℃ 802.11n HT40 Temperature : 03 43~44% Test Channel: Relative Humidity: Stone Gu Polarization: Test Engineer : Vertical 1. 2422 MHz is fundamental signal which can be ignored. 2. 2399 MHz MHz is not within restricted band, and its limit line is 20dB below the Remark: highest emission level. 3. Average measurement was not performed if peak level went lower than the

average limit.

| Frequency | Level      | Over            | Limit              | Read            | Antenna          | Cable        | Preamp      | Ant           | 1              | Remark  |
|-----------|------------|-----------------|--------------------|-----------------|------------------|--------------|-------------|---------------|----------------|---------|
| (MHz)     | ( dBµV/m ) | Limit<br>( dB ) | Line<br>( dBµV/m ) | Level<br>(dBµV) | Factor<br>( dB ) | Loss<br>(dB) | Factor (dB) | Pos<br>( cm ) | Pos<br>( deg ) |         |
| 2399      | 51.07      | -17.13          | 68.2               | 47.63           | 32.85            | 2.1          | 31.51       | 100           | 46             | Peak    |
| 2422      | 78.01      | -               | -                  | 74.49           | 32.91            | 2.12         | 31.51       | 100           | 46             | Average |
| 2422      | 88.2       | -               | -                  | 84.68           | 32.91            | 2.12         | 31.51       | 100           | 46             | Peak    |
| 4844      | 47.72      | -26.28          | 74                 | 40.99           | 35.17            | 3.09         | 31.53       | 152           | 64             | Peak    |
| 7266      | 45.89      | -28.11          | 74                 | 37.45           | 36.18            | 3.21         | 30.95       | 124           | 50             | Peak    |

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| Test Mode :     | 802.11n HT40   | Temperature :          | <b>23~24</b> ℃ |  |  |  |  |
|-----------------|--|------------------------|----------------|--|--|--|--|
| Test Channel :  | 06   | Relative Humidity :    | 43~44%         |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :         | Horizontal     |  |  |  |  |
|                 | 1. 2437 MHz is fundament   | al signal which can be | ignored.       |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower than |                        |                |  |  |  |  |
|                 | average limit.   |                        |                |  |  |  |  |

| Frequency | Level      | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | ( dBµV/m ) | (dB)          | ( dBµV/m )    | (dBµV)        | ( dB )            | ( dB )        | ( dB )           | ( cm )     | (deg)        |         |
| 2437      | 77.32      | -             | -             | 73.76         | 32.94             | 2.13          | 31.51            | 120        | 350          | Average |
| 2437      | 87.35      | -             | -             | 83.79         | 32.94             | 2.13          | 31.51            | 120        | 350          | Peak    |
| 4874      | 47.89      | -26.11        | 74            | 41.12         | 35.18             | 3.11          | 31.52            | 152        | 64           | Peak    |
| 7311      | 46.03      | -27.97        | 74            | 37.58         | 36.19             | 3.2           | 30.94            | 104        | 56           | Peak    |

| Test Mode :     | 802.11n HT40   | Temperature :  | 23~24℃   |  |  |  |  |
|-----------------|--|--|----------|--|--|--|--|
| Test Channel :  | 06   | Relative Humidity :                                  | 43~44%   |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :                                       | Vertical |  |  |  |  |
|                 | 1. 2437 MHz is fundament   | 2437 MHz is fundamental signal which can be ignored. |          |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower than the |  |          |  |  |  |  |
|                 | average limit.   |  |          |  |  |  |  |

| Frequency | Level         | Over   | Limit         | Read   | Antenna | Cable  | Preamp | Ant  | Table | Remark  |
|-----------|---------------|--------|---------------|--------|---------|--------|--------|------|-------|---------|
|           |               | Limit  | Line          | Level  | Factor  | Loss   | Factor | Pos  | Pos   |         |
| (MHz)     | $(dB\mu V/m)$ | (dB)   | $(dB\mu V/m)$ | (dBµV) | ( dB )  | ( dB ) | ( dB ) | (cm) | (deg) |         |
| 2437      | 75.94         | -      | -             | 72.38  | 32.94   | 2.13   | 31.51  | 108  | 245   | Average |
| 2437      | 87.19         | -      | -             | 83.63  | 32.94   | 2.13   | 31.51  | 108  | 245   | Peak    |
| 4874      | 48.44         | -25.56 | 74            | 41.67  | 35.18   | 3.11   | 31.52  | 106  | 39    | Peak    |
| 7311      | 46.9          | -27.1  | 74            | 38.45  | 36.19   | 3.2    | 30.94  | 108  | 90    | Peak    |

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| Test Mode :     | 802.11n HT40   | Temperature :       | <b>23~24</b> ℃ |  |  |  |
|-----------------|--|---------------------|----------------|--|--|--|
| Test Channel :  | 09   | Relative Humidity : | 43~44%         |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :      | Horizontal     |  |  |  |
|                 | 2452 MHz is fundamental signal which can be ignored.                       |                     |                |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower than the |                     |                |  |  |  |
|                 | average limit.   |                     |                |  |  |  |

| Frequency | Level      | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark  |
|-----------|------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|---------|
| (MHz)     | ( dBµV/m ) | (dB)          | ( dBµV/m )    | (dBµV)        | ( dB )            | ( dB )        | ( dB )           | ( cm )     | (deg)        |         |
| 2452      | 77.34      | -             | -             | 73.78         | 32.94             | 2.13          | 31.51            | 144        | 105          | Average |
| 2452      | 88.12      | -             | -             | 84.56         | 32.94             | 2.13          | 31.51            | 144        | 105          | Peak    |
| 4904      | 47.78      | -26.22        | 74            | 40.99         | 35.18             | 3.13          | 31.52            | 126        | 92           | Peak    |
| 7356      | 45.61      | -28.39        | 74            | 37.14         | 36.21             | 3.19          | 30.93            | 125        | 69           | Peak    |

| Test Mode :     | 802.11n HT40   | Temperature :  | 23~24℃   |  |  |  |  |
|-----------------|--|--|----------|--|--|--|--|
| Test Channel :  | 09   | Relative Humidity :                                  | 43~44%   |  |  |  |  |
| Test Engineer : | Stone Gu   | Polarization :                                       | Vertical |  |  |  |  |
|                 | 1. 2452 MHz is fundament   | 2452 MHz is fundamental signal which can be ignored. |          |  |  |  |  |
| Remark :        | 2. Average measurement was not performed if peak level went lower than the |  |          |  |  |  |  |
|                 | average limit.   |  |          |  |  |  |  |

| Frequency | Level         | Over   | Limit         | Read   | Antenna | Cable  | Preamp | Ant  | Table | Remark  |
|-----------|---------------|--------|---------------|--------|---------|--------|--------|------|-------|---------|
|           |               | Limit  | Line          | Level  | Factor  | Loss   | Factor | Pos  | Pos   |         |
| (MHz)     | $(dB\mu V/m)$ | (dB)   | $(dB\mu V/m)$ | (dBµV) | ( dB )  | ( dB ) | ( dB ) | (cm) | (deg) |         |
| 2452      | 78.51         | -      | -             | 74.95  | 32.94   | 2.13   | 31.51  | 100  | 51    | Average |
| 2452      | 88.72         | -      | -             | 85.16  | 32.94   | 2.13   | 31.51  | 100  | 51    | Peak    |
| 4904      | 47.8          | -26.2  | 74            | 41.01  | 35.18   | 3.13   | 31.52  | 116  | 92    | Peak    |
| 7356      | 46.33         | -27.67 | 74            | 37.86  | 36.21   | 3.19   | 30.93  | 109  | 256   | Peak    |

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#### 3.6 AC Conducted Emission Measurement

#### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of Emission | Conducted Limit (dBuV) |           |  |  |  |
|-----------------------|------------------------|-----------|--|--|--|
| (MHz)                 | Quasi-Peak             | Average   |  |  |  |
| 0.15-0.5              | 66 to 56*              | 56 to 46* |  |  |  |
| 0.5-5                 | 56                     | 46        |  |  |  |
| 5-30                  | 60                     | 50        |  |  |  |

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.6.3 Test Procedures

- 1. The testing follows the guidelines in ANSI C63.4-2003 and ANSI C63.10-2009.
- 2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 4. All the support units are connecting to the other LISN.
- 5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 7. Both sides of AC line were checked for maximum conducted interference.
- 8. The frequency range from 150 KHz to 30 MHz was searched.
- 9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

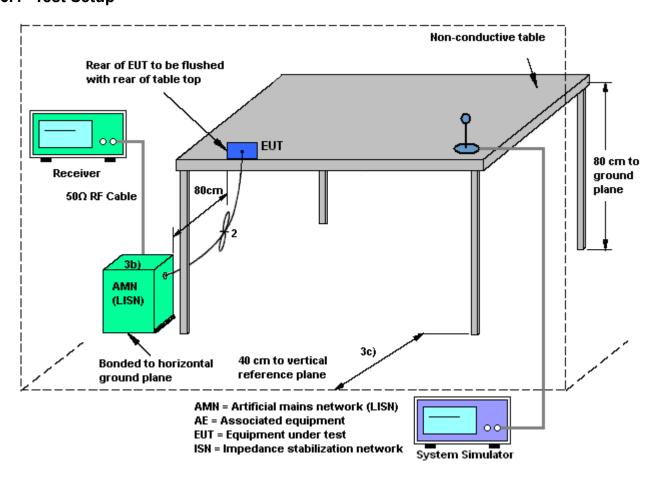
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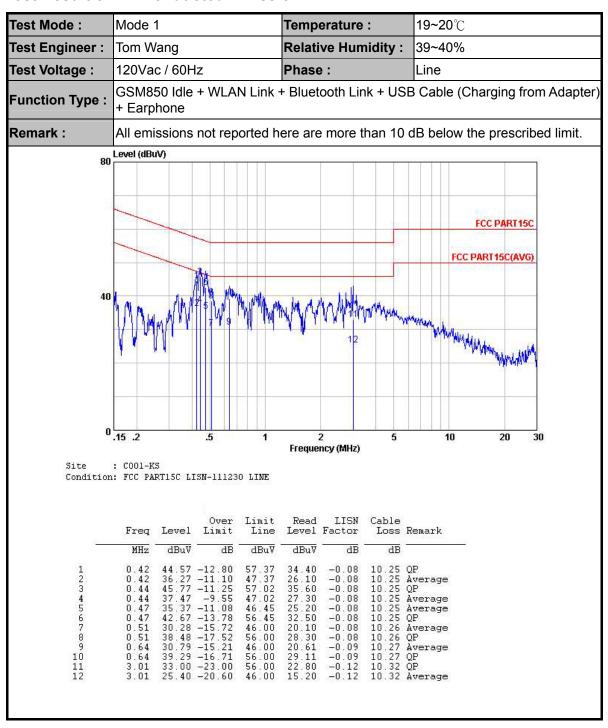
3.6.4 Test Setup



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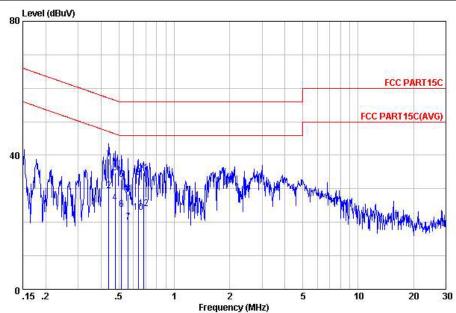
#### 3.6.5 Test Result of AC Conducted Emission



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Test Mode: Mode 1 Temperature: 19~20℃ 39~40% Test Engineer: Tom Wang Relative Humidity: Test Voltage: 120Vac / 60Hz Phase: Neutral GSM850 Idle + WLAN Link + Bluetooth Link + USB Cable (Charging from Adapter) **Function Type:** + Earphone Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : C001-KS Condition: FCC PART15C LISM-111230 MEUTRAL

|   | Freq | Level | Over<br>Limit | Limit<br>Line | Read<br>Level | LISN<br>Factor | Cable<br>Loss | Remark  |
|---|------|-------|---------------|---------------|---------------|----------------|---------------|---------|
|   | MHz  | dBu₹  | dB            | dBu₹          | dBu₹          | dB             | dB            |         |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9 | 0.44 | 38.97 | -18.10        | 57.07         | 28.80         | -0.08          | 10.25         | QP      |
| 2   | 0.44 | 29.37 | -17.70        | 47.07         | 19.20         | -0.08          | 10.25         | Average |
| 3   | 0.48 | 34.67 | -21.74        | 56.41         | 24.50         | -0.08          | 10.25         | QP      |
| 4   | 0.48 | 25.77 | -20.64        | 46.41         | 15.60         | -0.08          | 10.25         | Average |
| 5   | 0.52 | 32.78 | -23.22        | 56.00         | 22.60         | -0.08          | 10.26         | QP      |
| 6   | 0.52 | 23.88 | -22.12        | 46.00         | 13.70         | -0.08          | 10.26         | Average |
| 7   | 0.56 | 19.98 | -26.02        | 46.00         | 9.80          | -0.08          |               | Average |
| 8   | 0.56 | 28.58 | -27.42        | 56.00         | 18.40         | -0.08          | 10.26         |         |
| 9   | 0.64 | 33.49 | -22.51        | 56.00         | 23.30         | -0.08          | 10.27         | QP      |
| .0  | 0.64 | 22.99 | -23.01        | 46.00         | 12.80         | -0.08          | 10.27         | Average |
| 1   | 0.68 | 34.79 | -21.21        | 56.00         | 24.60         | -0.08          | 10.27         | QP      |
| 2   | 0.68 | 24.09 | -21.91        | 46.00         | 13.90         | -0.08          | 10.27         | Average |

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3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional

radiator shall be considered sufficient to comply with the FCC rule.

3.7.2 Antenna Connected Construction

Non-standard connector used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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4 List of Measuring Equipment

| Instrument                   | Manufacturer | Model No. | Serial No.     | Characteristics | Calibration<br>Date | Test Date     | Due Date      | Remark                   |
|------------------------------|--------------|-----------|----------------|-----------------|---------------------|---------------|---------------|--------------------------|
| Spectrum<br>Analyzer         | R&S          | FSP40     | 100319         | 9kHz~40GHz      | Dec. 29, 2012       | Mar. 04, 2013 | Dec. 28, 2013 | Conducted<br>(TH01-KS)   |
| Power Meter                  | Agilent      | E4416A    | MY45101555     | N/A             | Aug. 22, 2012       | Mar. 04, 2013 | Aug. 21, 2013 | Conducted<br>(TH01-KS)   |
| Power Sensor                 | Agilent      | E9327A    | MY44421198     | N/A             | Aug. 22, 2012       | Mar. 04, 2013 | Aug. 21, 2013 | Conducted<br>(TH01-KS)   |
| DC Power<br>Supply           | GWINSTEK     | GPS-3030D | E1884515       | N/A             | Aug. 22, 2012       | Mar. 04, 2013 | Aug. 21, 2013 | Conducted<br>(TH01-KS)   |
| Thermal<br>Chamber           | Ten Billion  | TTC-B3S   | TBN-960502     | N/A             | Dec. 29, 2012       | Mar. 04, 2013 | Dec. 28, 2013 | Conducted<br>(TH01-KS)   |
| EMI Test<br>Receiver         | R&S          | ESCI      | 100534         | 9kHz~3GHz       | Nov. 08, 2012       | Mar. 18, 2013 | Nov. 07, 2013 | Radiation<br>(03CH01-KS) |
| Spectrum<br>Analyzer         | R&S          | FSP30     | 100400         | 9kHz~30GHz      | Jun. 01, 2012       | Mar. 18, 2013 | May 31, 2013  | Radiation<br>(03CH01-KS) |
| Bilog Antenna                | SCHAFFNER    | CBL6112D  | 23182          | 25MHz~2GHz      | Dec. 07, 2012       | Mar. 18, 2013 | Dec. 06, 2013 | Radiation<br>(03CH01-KS) |
| Loop Antenna                 | R&S          | HFH2-Z2   | 860004/<br>001 | 9 kHz~30 MHz    | Jul. 03, 2012       | Mar. 18, 2013 | Jul. 02, 2014 | Radiation<br>(03CH01-KS) |
| Double Ridge<br>Horn Antenna | ETS-Lindgren | 1908/7/13 | 00075957       | 1GHz~18GHz      | Dec. 07, 2012       | Mar. 18, 2013 | Dec. 06, 2013 | Radiation<br>(03CH01-KS) |
| Amplifier                    | com-power    | PA-103A   | 161069         | 1MHz~1GHz       | Jun. 01, 2012       | Mar. 18, 2013 | May 31, 2013  | Radiation<br>(03CH01-KS) |
| Amplifier                    | Agilent      | 8449B     | 3008A02370     | 1GHz~26.5GHz    | Dec. 29, 2012       | Mar. 18, 2013 | Dec. 28, 2013 | Radiation<br>(03CH01-KS) |
| Active Horn<br>Antenna       | com-power    | AHA-118   | 701023         | 1GHz~18GHz      | Nov. 07, 2012       | Mar. 18, 2013 | Nov. 06, 2013 | Radiation<br>(03CH01-KS) |
| SHF-EHF Horn                 | Schwarzbeck  | BBHA 9170 | 9170249        | 15GHz~40GHz     | Nov. 23, 2012       | Mar. 18, 2013 | Nov. 22, 2013 | Radiation<br>(03CH01-KS) |
| EMI Receiver                 | R&S          | ESCI7     | 100768         | 9kHz~7GHz       | Jun. 01, 2012       | Mar. 15, 2013 | May 31, 2013  | Conduction<br>(CO01-KS)  |
| LISN                         | MessTec      | AN3016    | 60103          | 9kHz~30MHz      | Dec. 29, 2012       | Mar. 15, 2013 | Dec. 28, 2013 | Conduction<br>(CO01-KS)  |
| LISN                         | MessTec      | AN3016    | 60105          | 9kHz~30MHz      | Dec. 29, 2012       | Mar. 15, 2013 | Dec. 28, 2013 | Conduction<br>(CO01-KS)  |
| AC Power<br>Source           | Chroma       | 61602     | ABP000000811   | N/A             | Nov. 15, 2012       | Mar. 15, 2013 | Nov. 14, 2013 | Conduction<br>(CO01-KS)  |
| System<br>Simulator          | R&S          | CMU200    | 837587/066     | 2G Full-Band    | Dec. 29, 2012       | Mar. 15, 2013 | Dec. 28, 2013 | Conduction<br>(CO01-KS)  |

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## 5 Uncertainty of Evaluation

#### Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)

| Measuring Uncertainty for a Level of | 2.26 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y))       | 2.26 |

#### <u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

| Measuring Uncertainty for a Level of |      |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y))       | 2.54 |

#### **Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)**

| Measuring Uncertainty for a Level of | 4.70 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y))       | 4.72 |

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# Appendix A. Photographs of EUT

Please refer to Sporton report number EP322205 as below.

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