

# RF TEST REPORT



Report No.: 15070303-FCC-R1

Supersede Report No.: N/A

|                                                                                   |                                                                        |                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------|
| Applicant                                                                         | SynCrown Inc.                                                          |                                     |
| Product Name                                                                      | mobile Thermal Printer                                                 |                                     |
| Model No.                                                                         | SMP-M240                                                               |                                     |
| Serial No.                                                                        | N/A                                                                    |                                     |
| Test Standard                                                                     | FCC Part 15.247: 2014, ANSI C63.10: 2013                               |                                     |
| Test Date                                                                         | April 29 to May 06, 2015                                               |                                     |
| Issue Date                                                                        | May 08, 2015                                                           |                                     |
| Test Result                                                                       | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail |                                     |
| Equipment complied with the specification                                         |                                                                        | <input checked="" type="checkbox"/> |
| Equipment did not comply with the specification                                   |                                                                        | <input type="checkbox"/>            |
| Wiky Jam                                                                          | Chris You                                                              |                                     |
| Wiky Jam<br>Test Engineer                                                         | Chris You<br>Checked By                                                |                                     |
| This test report may be reproduced in full only                                   |                                                                        |                                     |
| Test result presented in this test report is applicable to the tested sample only |                                                                        |                                     |

Issued by:

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## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

| Country/Region | Scope                              |
|----------------|------------------------------------|
| USA            | EMC, RF/Wireless, SAR, Telecom     |
| Canada         | EMC, RF/Wireless, SAR, Telecom     |
| Taiwan         | EMC, RF, Telecom, SAR, Safety      |
| Hong Kong      | RF/Wireless, SAR, Telecom          |
| Australia      | EMC, RF, Telecom, SAR, Safety      |
| Korea          | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan          | EMI, RF/Wireless, SAR, Telecom     |
| Singapore      | EMC, RF, SAR, Telecom              |
| Europe         | EMC, RF, SAR, Telecom, Safety      |

|                 |                 |
|-----------------|-----------------|
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## 1. Report Revision History

| Report No.      | Report Version | Description | Issue Date   |
|-----------------|----------------|-------------|--------------|
| 15070303-FCC-R1 | NONE           | Original    | May 08, 2015 |
|                 |                |             |              |
|                 |                |             |              |
|                 |                |             |              |
|                 |                |             |              |
|                 |                |             |              |

## 2. Customer information

|                  |                                                                                |
|------------------|--------------------------------------------------------------------------------|
| Applicant Name   | SynCrown Inc.                                                                  |
| Applicant Add    | 704, EnC dream-tower, 45 Gasan Digital 1st road, GeumCheon, Seoul, Korea       |
| Manufacturer     | Xiamen Hanin Electronic Technology Co., Ltd.                                   |
| Manufacturer Add | Room 305A, Angye Building, Pioneering Park, Torch High-tech Zone, Xiamen China |

## 3. Test site information

|                      |                                                                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES                                                                                                        |
| Lab Address          | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park<br>South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong<br>China 518108 |
| FCC Test Site No.    | 718246                                                                                                                                      |
| IC Test Site No.     | 4842E-1                                                                                                                                     |
| Test Software        | Radiated Emission Program-To Shenzhen v2.0                                                                                                  |

#### 4. Equipment under Test (EUT) Information

Description of EUT: mobile Thermal Printer  
  
 Main Model: SMP-M240  
  
 Serial Model: N/A  
  
 Date EUT received: April 28, 2015  
  
 Test Date(s): April 29 to May 06, 2015  
  
 Equipment Category : DTS  
  
 Antenna Gain: Bluetooth/BLE: 2 dBi  
  
 Type of Modulation: Bluetooth: GFSK,  $\pi/4$ DQPSK, 8DPSK  
 BLE: GFSK  
  
 RF Operating Frequency (ies): Bluetooth& BLE: 2402-2480 MHz  
  
 Max. Output Power: BLE: -2.751 dBm  
  
 Number of Channels: Bluetooth: 79CH  
 BLE: 40CH  
  
 Port: Power Port, USB Port  
  
 Battery:  
 Model: L002  
 Spec: 7.4V 1500mAh  
  
 Input Power: Adapter:  
 Model: P6120050 US  
 Input: AC 100-240V; 50/60Hz 0.2A  
 Output: DC 12.0V; 0.5A  
  
 Trade Name : SYNCROWN  
  
 FCC ID: 2AEPCSMP-M240

## 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

| FCC Rules                    | Description of Test                                                              | Result     |
|------------------------------|----------------------------------------------------------------------------------|------------|
| §15.203                      | Antenna Requirement                                                              | Compliance |
| §15.247 (a)(2)               | DTS (6 dB) CHANNEL BANDWIDTH                                                     | Compliance |
| §15.247(b)(3)                | Conducted Maximum Output Power                                                   | Compliance |
| §15.247(e)                   | Power Spectral Density                                                           | Compliance |
| §15.247(d)                   | Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands               | Compliance |
| §15.207 (a),                 | AC Power Line Conducted Emissions                                                | Compliance |
| §15.205, §15.209, §15.247(d) | Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands | Compliance |

### Measurement Uncertainty

| Emissions                                 |                                                                                                                                                 |               |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Test Item                                 | Description                                                                                                                                     | Uncertainty   |
| Band Edge and Radiated Spurious Emissions | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |
| -                                         | -                                                                                                                                               | -             |

## **6. Measurements, Examination And Derived Results**

### **6.1 Antenna Requirement**

#### **Applicable Standard**

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Antenna Connector Construction**

The EUT has one antenna:

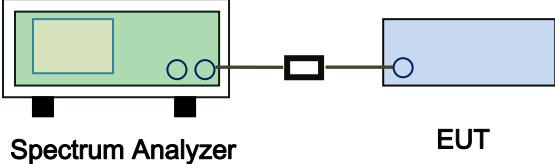
A permanent PCB antenna for Bluetooth/BLE, the gain is 2 dBi for Bluetooth/BLE.

**The antenna meets up with the ANTENNA REQUIREMENT.**

**Result:** Compliance.

## 6.2 DTS (6 dB) Channel Bandwidth

|                      |              |
|----------------------|--------------|
| Temperature          | 25°C         |
| Relative Humidity    | 58%          |
| Atmospheric Pressure | 1013mbar     |
| Test date :          | May 05, 2015 |
| Tested By :          | Wiky Jam     |

| Spec           | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Requirement                                     | Applicable                          |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------|
| § 15.247(a)(2) | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6dB BW $\geq$ 500kHz;                           | <input checked="" type="checkbox"/> |
|                | b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 99% BW: For FCC reference only; required by IC. | <input checked="" type="checkbox"/> |
| Test Setup     | <br><b>Spectrum Analyzer</b> <b>EUT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 |                                     |
| Test Procedure | <p>558074 D01 DTS MEAS Guidance v03r02, 8.1 DTS bandwidth</p> <p><u>6dB Emission bandwidth measurement procedure</u></p> <ul style="list-style-type: none"> <li>- Set RBW = 100 kHz.</li> <li>- Set the video bandwidth (VBW) <math>\geq</math> 3 ' RBW.</li> <li>- Detector = Peak.</li> <li>- Trace mode = max hold.</li> <li>- Sweep = auto couple.</li> <li>- Allow the trace to stabilize.</li> </ul> <p>Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</p> |                                                 |                                     |
| Remark         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 |                                     |
| Result         | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |                                     |

**Test Data**     Yes       N/A

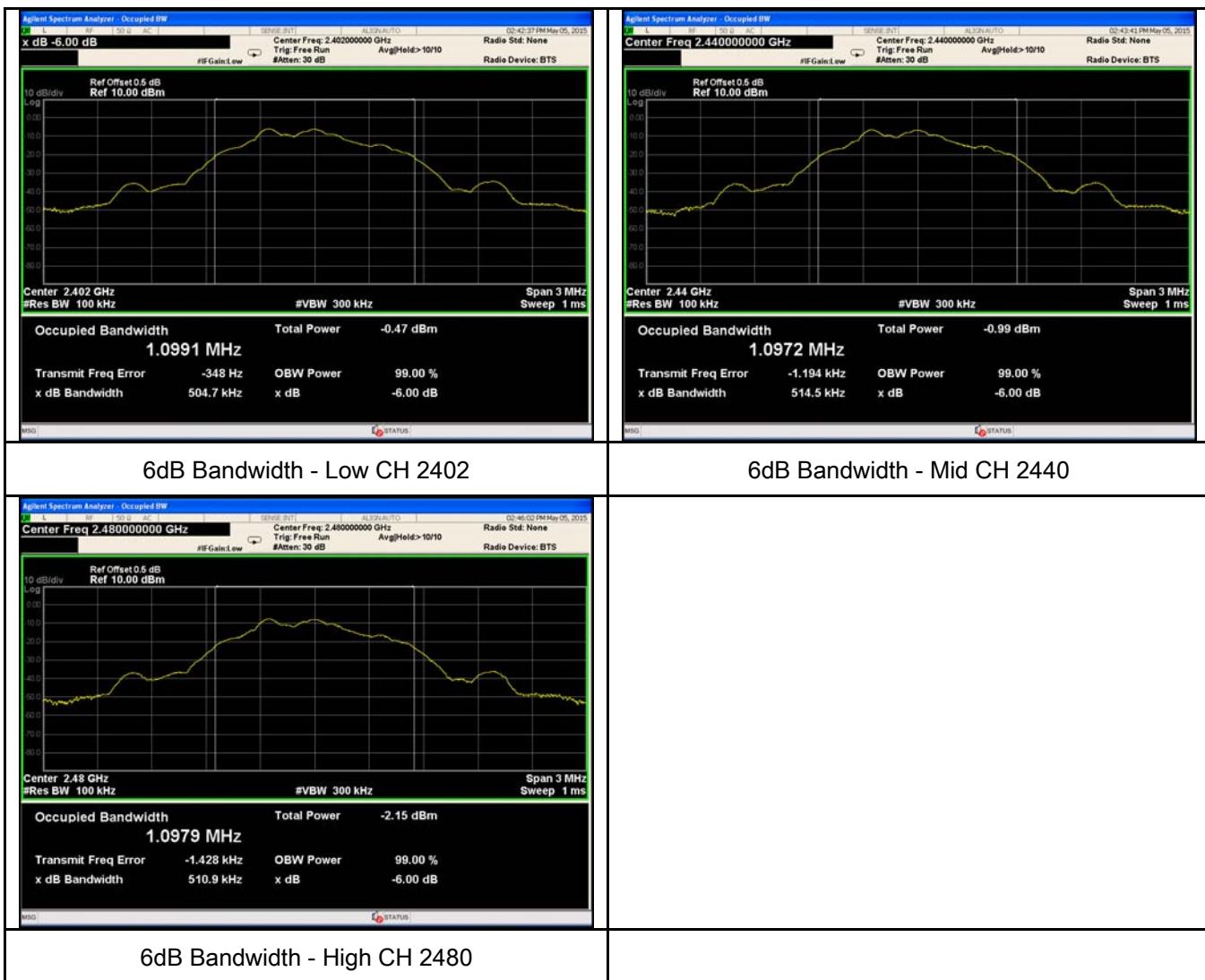
**Test Plot**     Yes (See below)       N/A

## 6dB Bandwidth measurement result

### Test Data

| CH   | Freq (MHz) | 6dB Bandwidth (kHz) | Limit (MHz) | 99% Occupied Bandwidth (MHz) |
|------|------------|---------------------|-------------|------------------------------|
| Low  | 2402       | 504.7               | ≥ 0.5       | 1.0991                       |
| Mid  | 2440       | 514.5               | ≥ 0.5       | 1.0972                       |
| High | 2480       | 510.9               | ≥ 0.5       | 1.0979                       |

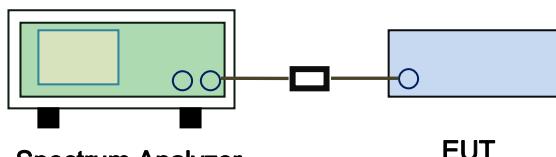
### Test Plots



### 6.3 Maximum Output Power

|                      |              |
|----------------------|--------------|
| Temperature          | 25°C         |
| Relative Humidity    | 58%          |
| Atmospheric Pressure | 1013mbar     |
| Test date :          | May 05, 2015 |
| Tested By :          | Wiky Jam     |

#### Requirement(s):

| Spec                                | Item | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Applicable                          |
|-------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| §15.247(b)<br>(2), RSS210<br>(A8.4) | a)   | FHSS in 2400-2483.5MHz with $\geq$ 75 channels: $\leq$ 1 Watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/>            |
|                                     | b)   | FHSS in 5725-5850MHz: $\leq$ 1 Watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/>            |
|                                     | c)   | For all other FHSS in the 2400-2483.5MHz band: $\leq$ 0.125 Watt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/>            |
|                                     | d)   | FHSS in 902-928MHz with $\geq$ 50 channels: $\leq$ 1 Watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            |
|                                     | e)   | FHSS in 902-928MHz with $\geq$ 25 & $<$ 50 channels: $\leq$ 0.25 Watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>            |
|                                     | f)   | DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz: $\leq$ 1 Watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> |
| Test Setup                          |      | <br><b>Spectrum Analyzer</b> <b>EUT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| Test Procedure                      |      | <p>558074 D01 DTS MEAS Guidance v03r02, 9.1.2 Integrated band power method</p> <p>Maximum output power measurement procedure</p> <ol style="list-style-type: none"> <li>Set the RBW <math>\geq</math> DTS bandwidth.</li> <li>Set VBW <math>\geq</math> <math>3 \times</math> RBW.</li> <li>Set span <math>\geq</math> <math>3 \times</math> RBW</li> <li>Sweep time = auto couple.</li> <li>Detector = peak.</li> <li>Trace mode = max hold.</li> <li>Allow trace to fully stabilize.</li> <li>Use peak marker function to determine the peak amplitude level.</li> </ol> |                                     |
| Remark                              |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |

|        |                                          |                               |
|--------|------------------------------------------|-------------------------------|
| Result | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Fail |
|--------|------------------------------------------|-------------------------------|

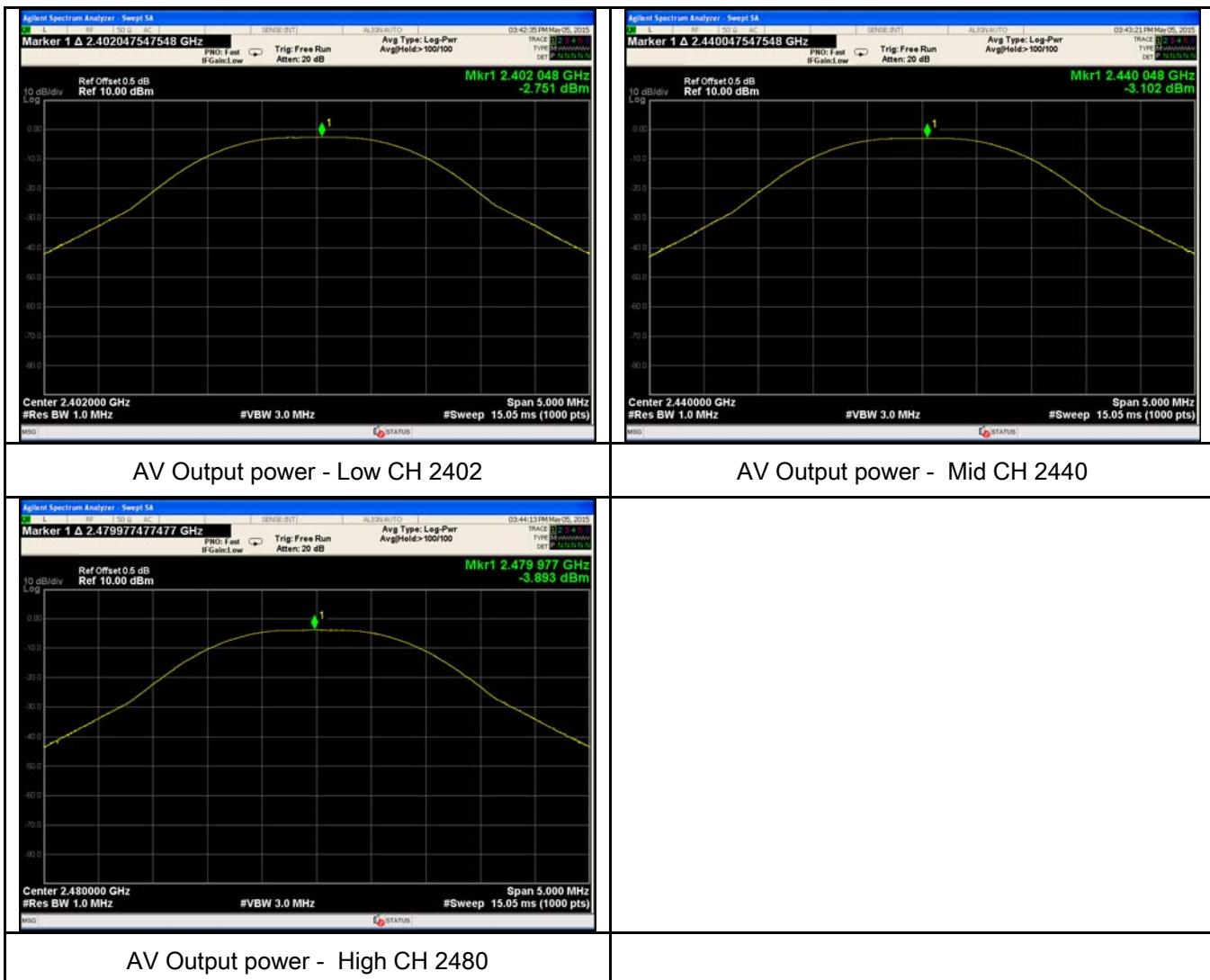
**Test Data**  Yes  N/A

**Test Plot**  Yes (See below)  N/A

### Test Data

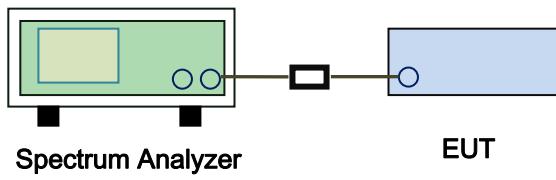
| Type         | CH   | Freq (MHz) | Conducted Power (dBm) | Limit (dBm) | Result |
|--------------|------|------------|-----------------------|-------------|--------|
| Output power | Low  | 2402       | -2.751                | 30          | Pass   |
|              | Mid  | 2440       | -3.102                | 30          | Pass   |
|              | High | 2480       | -3.893                | 30          | Pass   |

### Test Plots



## 6.4 Power Spectral Density

|                      |              |
|----------------------|--------------|
| Temperature          | 25°C         |
| Relative Humidity    | 58%          |
| Atmospheric Pressure | 1013mbar     |
| Test date :          | May 05, 2015 |
| Tested By :          | Wiky Jam     |

| Spec           | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Requirement                                                                                                                                                                              | Applicable                          |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| §15.247(e)     | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. | <input checked="" type="checkbox"/> |
| Test Setup     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                          |                                     |
| Test Procedure | <p>558074 D01 DTS MEAS Guidance v03r02, 10.2 power spectral density method power spectral density measurement procedure</p> <ul style="list-style-type: none"> <li>- a) Set analyzer center frequency to DTS channel center frequency.</li> <li>- b) Set the span to 1.5 times the DTS bandwidth.</li> <li>- c) Set the RBW to: <math>3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}</math>.</li> <li>- d) Set the VBW <math>\geq 3 \times \text{RBW}</math>.</li> <li>- e) Detector = peak.</li> <li>- f) Sweep time = auto couple.</li> <li>- g) Trace mode = max hold.</li> <li>- h) Allow trace to fully stabilize.</li> <li>- i) Use the peak marker function to determine the maximum amplitude level within the RBW.</li> <li>- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.</li> </ul> |                                                                                                                                                                                          |                                     |
| Remark         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                          |                                     |
| Result         | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                          |                                     |

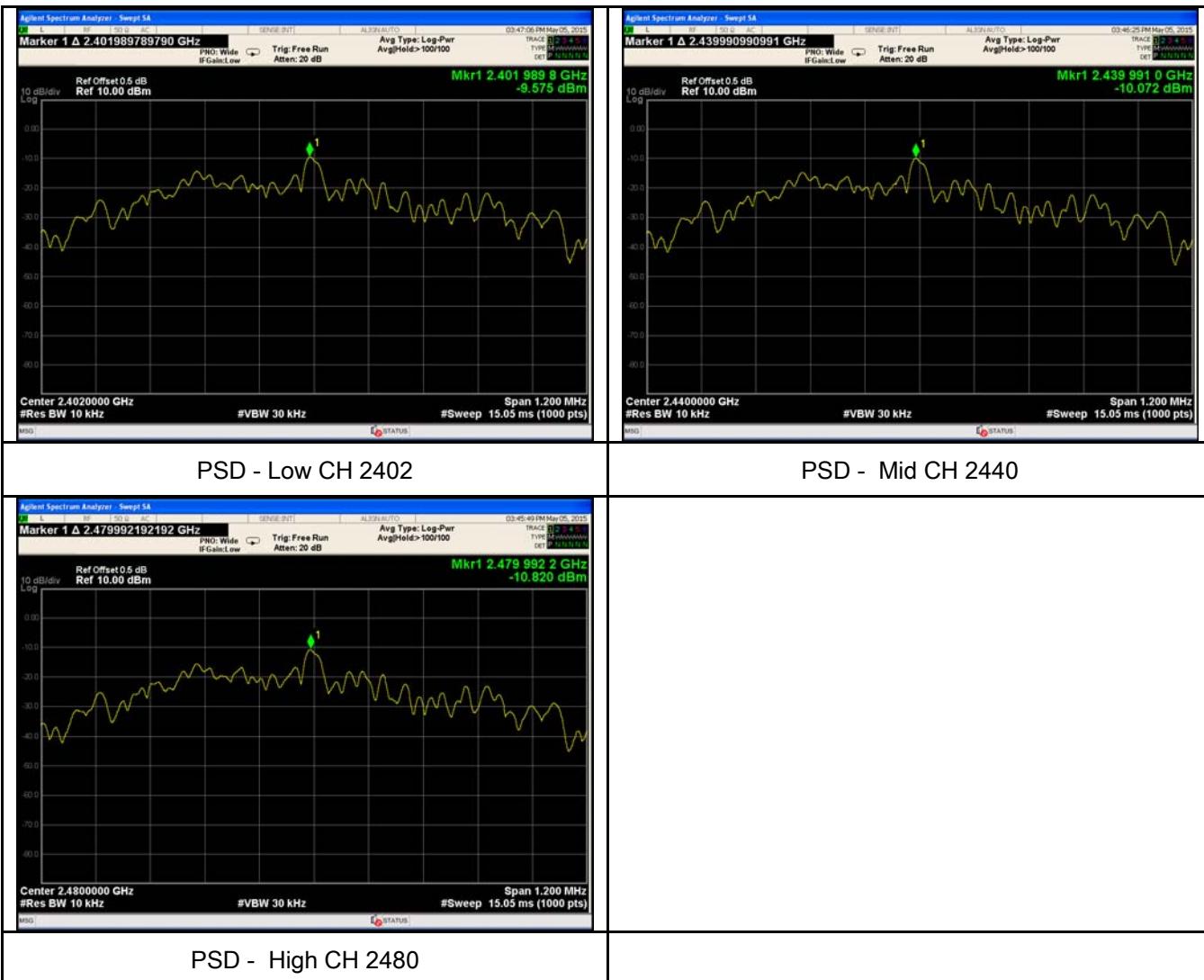
Test Data     Yes       N/A  
 Test Plot     Yes (See below)       N/A

## Power Spectral Density measurement result

### Test Data

| Type | CH   | Freq (MHz) | PSD (dBm) | Limit (dBm) | Result |
|------|------|------------|-----------|-------------|--------|
| PSD  | Low  | 2402       | -9.575    | 8           | Pass   |
|      | Mid  | 2440       | -10.072   | 8           | Pass   |
|      | High | 2480       | -10.820   | 8           | Pass   |

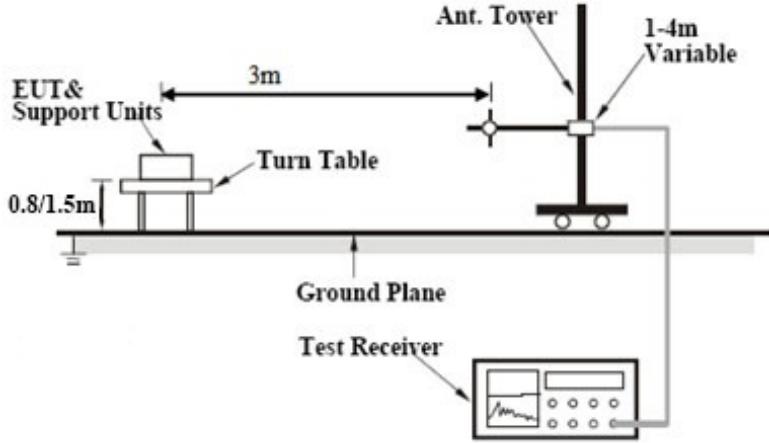
### Test Plots



## 6.5 Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

|                      |              |
|----------------------|--------------|
| Temperature          | 25°C         |
| Relative Humidity    | 61%          |
| Atmospheric Pressure | 1013mbar     |
| Test date :          | May 06, 2015 |
| Tested By :          | Wiky Jam     |

### Requirement(s):

| Spec           | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Applicable                          |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| §15.247(d)     | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. | <input checked="" type="checkbox"/> |
| Test Setup     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| Test Procedure | <p>Radiated Method Only</p> <ul style="list-style-type: none"> <li>- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.</li> <li>- 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |

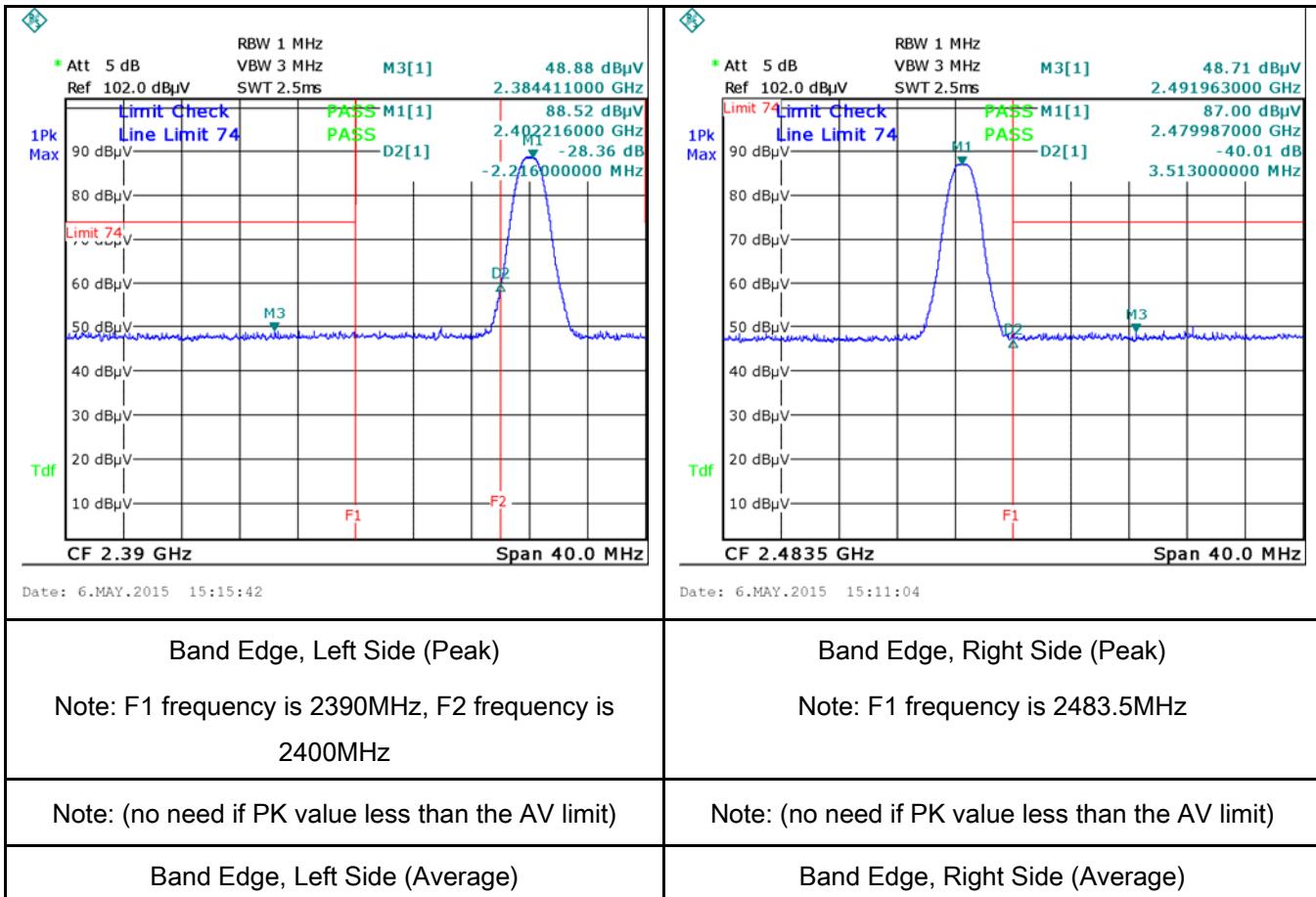
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <ul style="list-style-type: none"> <li>- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below:           <ul style="list-style-type: none"> <li>a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</li> <li>b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.</li> <li>c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz.</li> </ul> </li> <li>- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.</li> <li>- 5. Repeat above procedures until all measured frequencies were complete.</li> </ul> |
| Remark |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Test Data     Yes       N/A

Test Plot     Yes (See below)       N/A

## Test Plots

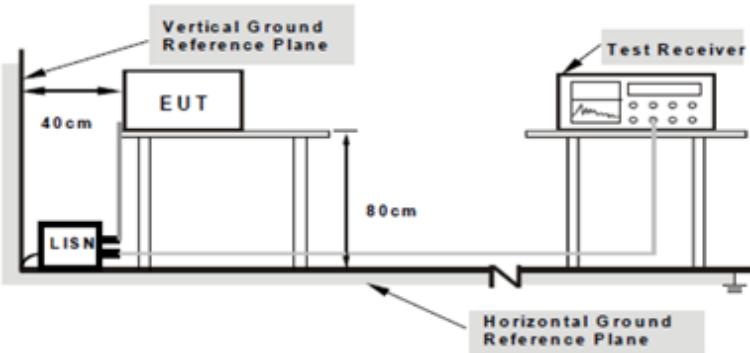
### Band Edge measurement result



## 6.6 AC Power Line Conducted Emissions

|                      |                |
|----------------------|----------------|
| Temperature          | 25°C           |
| Relative Humidity    | 62%            |
| Atmospheric Pressure | 1015mbar       |
| Test date :          | April 29, 2015 |
| Tested By :          | Wiky Jam       |

### Requirement(s):

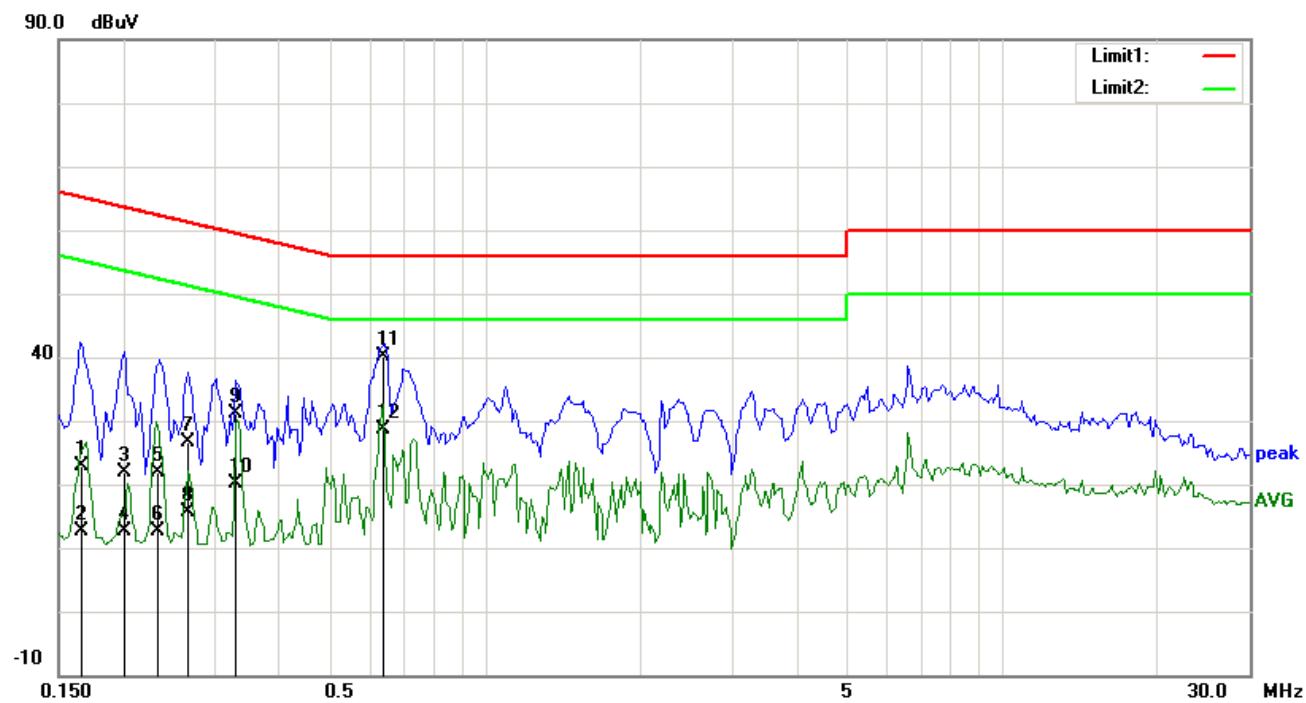
| Spec                        | Item                                                                                                                                                                                                                                                                                                                                                                                                        | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Applicable             |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|--|----|---------|------------|---------|---------|---------|----|----|--------|----|----|-------------------------------------|
| 47CFR§15.207, RSS210 (A8.1) | a)                                                                                                                                                                                                                                                                                                                                                                                                          | <p>For Low-power radio-frequency devices 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, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dB<math>\mu</math>V)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> | Frequency ranges (MHz) | Limit (dB $\mu$ V) |  | QP | Average | 0.15 ~ 0.5 | 66 – 56 | 56 – 46 | 0.5 ~ 5 | 56 | 46 | 5 ~ 30 | 60 | 50 | <input checked="" type="checkbox"/> |
| Frequency ranges (MHz)      | Limit (dB $\mu$ V)                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
|                             | QP                                                                                                                                                                                                                                                                                                                                                                                                          | Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| 0.15 ~ 0.5                  | 66 – 56                                                                                                                                                                                                                                                                                                                                                                                                     | 56 – 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| 0.5 ~ 5                     | 56                                                                                                                                                                                                                                                                                                                                                                                                          | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| 5 ~ 30                      | 60                                                                                                                                                                                                                                                                                                                                                                                                          | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| Test Setup                  |  <p><b>Note:</b> 1. Support units were connected to second LISN.<br/>2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| Procedure                   | <ol style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | coaxial cable.<br>4. All other supporting equipment were powered separately from another main supply.<br>5. The EUT was switched on and allowed to warm up to its normal operating condition.<br>6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.<br>7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz.<br>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power). |
| Remark |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

Test Data  Yes  N/A

Test Plot  Yes (See below)  N/A

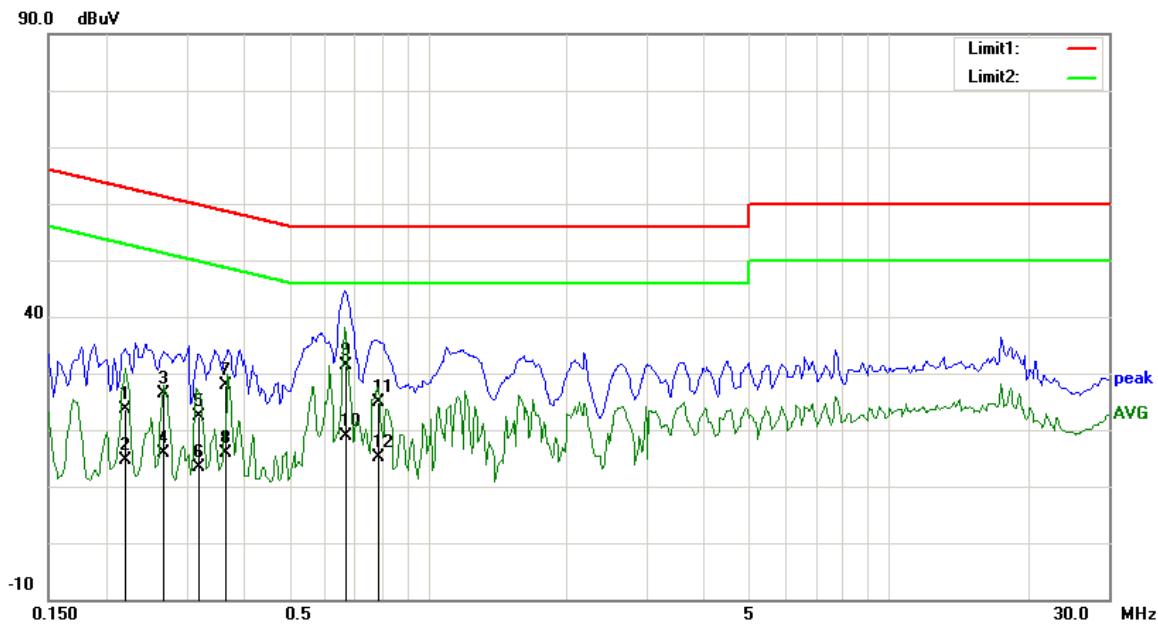
|            |                       |
|------------|-----------------------|
| Test Mode: | Transmitting BLE Mode |
|------------|-----------------------|



### Test Data

Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dB $\mu$ V/m) | Detector | Corrected (dB/m) | Result (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----|-----|-----------------|------------------------|----------|------------------|-----------------------|----------------------|-------------|
| 1   | L1  | 0.1659          | 9.63                   | QP       | 13.14            | 22.77                 | 65.16                | -42.39      |
| 2   | L1  | 0.1659          | -0.52                  | AVG      | 13.14            | 12.62                 | 55.16                | -42.54      |
| 3   | L1  | 0.2008          | 8.85                   | QP       | 13.01            | 21.86                 | 63.58                | -41.72      |
| 4   | L1  | 0.2008          | -0.45                  | AVG      | 13.01            | 12.56                 | 53.58                | -41.02      |
| 5   | L1  | 0.2329          | 9.08                   | QP       | 12.89            | 21.97                 | 62.35                | -40.38      |
| 6   | L1  | 0.2329          | -0.24                  | AVG      | 12.89            | 12.65                 | 52.35                | -39.70      |
| 7   | L1  | 0.2672          | 13.99                  | QP       | 12.76            | 26.75                 | 61.20                | -34.45      |
| 8   | L1  | 0.2672          | 2.77                   | AVG      | 12.76            | 15.53                 | 51.20                | -35.67      |
| 9   | L1  | 0.3303          | 18.58                  | QP       | 12.53            | 31.11                 | 59.44                | -28.33      |
| 10  | L1  | 0.3303          | 7.59                   | AVG      | 12.53            | 20.12                 | 49.44                | -29.32      |
| 11  | L1  | 0.6372          | 28.37                  | QP       | 11.76            | 40.13                 | 56.00                | -15.87      |
| 12  | L1  | 0.6372          | 16.98                  | AVG      | 11.76            | 28.74                 | 46.00                | -17.26      |



### Test Data

Phase Neutral Plot at 120Vac, 60Hz

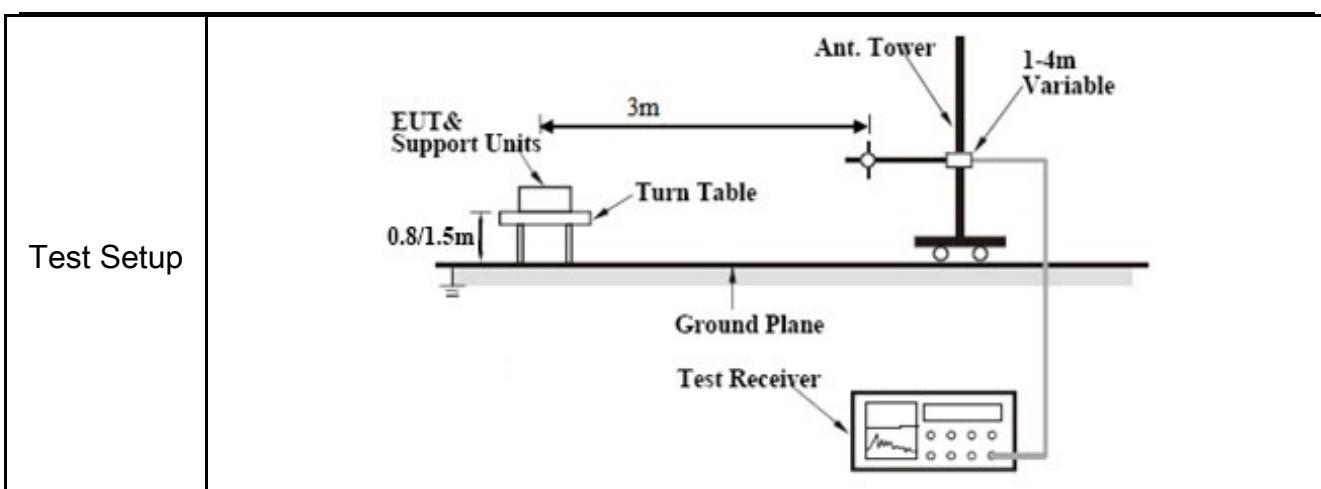
| No. | P/L | Frequency (MHz) | Reading (dB $\mu$ V/m) | Detector | Corrected (dB/m) | Result (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----|-----|-----------------|------------------------|----------|------------------|-----------------------|----------------------|-------------|
| 1   | N   | 0.2208          | 10.73                  | QP       | 12.94            | 23.67                 | 62.79                | -39.12      |
| 2   | N   | 0.2208          | 1.60                   | AVG      | 12.94            | 14.54                 | 52.79                | -38.25      |
| 3   | N   | 0.2672          | 13.71                  | QP       | 12.76            | 26.47                 | 61.20                | -34.73      |
| 4   | N   | 0.2672          | 3.19                   | AVG      | 12.76            | 15.95                 | 51.20                | -35.25      |
| 5   | N   | 0.3183          | 9.70                   | QP       | 12.57            | 22.27                 | 59.75                | -37.48      |
| 6   | N   | 0.3183          | 0.71                   | AVG      | 12.57            | 13.28                 | 49.75                | -36.47      |
| 7   | N   | 0.3634          | 15.35                  | QP       | 12.41            | 27.76                 | 58.65                | -30.89      |
| 8   | N   | 0.3634          | 3.36                   | AVG      | 12.41            | 15.77                 | 48.65                | -32.88      |
| 9   | N   | 0.6656          | 19.62                  | QP       | 11.73            | 31.35                 | 56.00                | -24.65      |
| 10  | N   | 0.6656          | 7.12                   | AVG      | 11.73            | 18.85                 | 46.00                | -27.15      |
| 11  | N   | 0.7793          | 13.22                  | QP       | 11.62            | 24.84                 | 56.00                | -31.16      |
| 12  | N   | 0.7793          | 3.61                   | AVG      | 11.62            | 15.23                 | 46.00                | -30.77      |

## 6.7 Radiated Spurious Emissions

|                      |              |
|----------------------|--------------|
| Temperature          | 25°C         |
| Relative Humidity    | 61%          |
| Atmospheric Pressure | 1013mbar     |
| Test date :          | May 06, 2015 |
| Tested By :          | Wiky Jam     |

### Requirement(s):

| Spec                  | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Requirement                                                                                                                                                                                                                                                                                                                                   | Applicable                          |                       |                       |         |     |          |     |           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------|-----------------------|---------|-----|----------|-----|-----------|
| 47CFR§15.<br>247(d)   | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges | <input checked="" type="checkbox"/> |                       |                       |         |     |          |     |           |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (µV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 – 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>                               |                                     | Frequency range (MHz) | Field Strength (µV/m) | 30 – 88 | 100 | 88 – 216 | 150 | 216 – 960 |
| Frequency range (MHz) | Field Strength (µV/m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                               |                                     |                       |                       |         |     |          |     |           |
| 30 – 88               | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                               |                                     |                       |                       |         |     |          |     |           |
| 88 – 216              | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                               |                                     |                       |                       |         |     |          |     |           |
| 216 – 960             | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                               |                                     |                       |                       |         |     |          |     |           |
| Above 960             | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                               |                                     |                       |                       |         |     |          |     |           |
| b)                    | For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required<br><input checked="" type="checkbox"/> 20 dB down <input type="checkbox"/> 30 dB down | <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                           |                                     |                       |                       |         |     |          |     |           |
| c)                    | or restricted band, emission must also comply with the radiated emission limits specified in 15.209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                           |                                     |                       |                       |         |     |          |     |           |



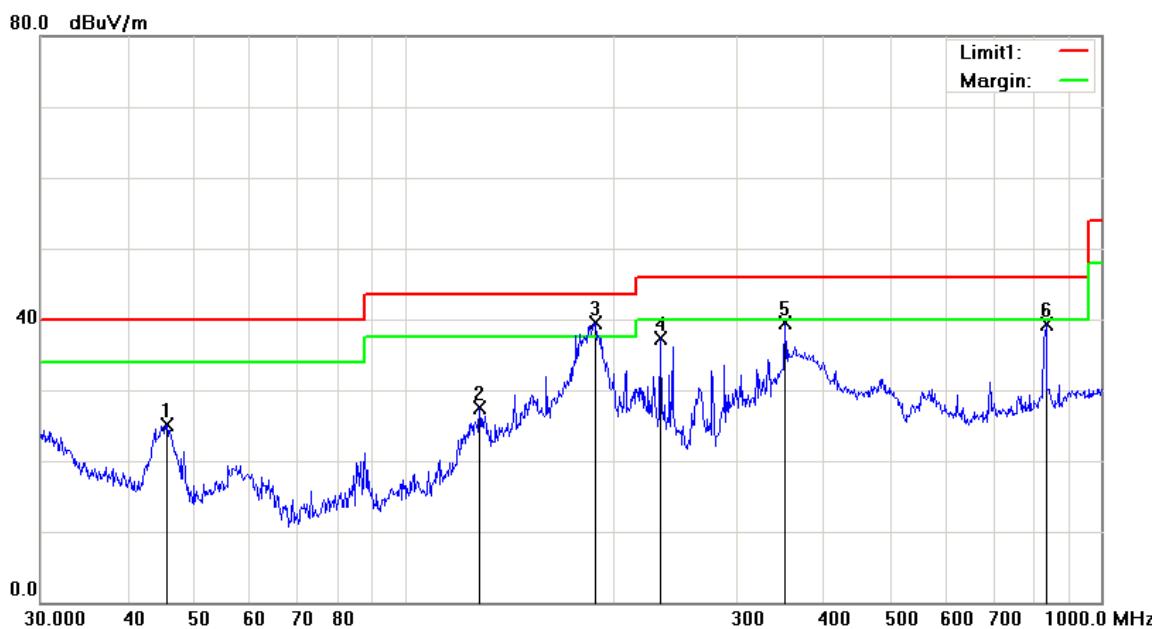
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Procedure | <ol style="list-style-type: none"> <li>1. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:           <ol style="list-style-type: none"> <li>a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>b. The EUT was then rotated to the direction that gave the maximum emission.</li> <li>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</li> <li>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.<br/>           The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz.</li> <li>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol> |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|        |                                                                                                                                                                             |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remark | Different RF configuration has been evaluated but not much difference was found. The data presented here is the worst case data with EUT under 802.11n – HT20-2437MHz mode. |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                      |

|           |                                                                                  |
|-----------|----------------------------------------------------------------------------------|
| Test Data | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A             |
| Test Plot | <input checked="" type="checkbox"/> Yes (See below) <input type="checkbox"/> N/A |

|            |                       |
|------------|-----------------------|
| Test Mode: | Transmitting BLE Mode |
|------------|-----------------------|

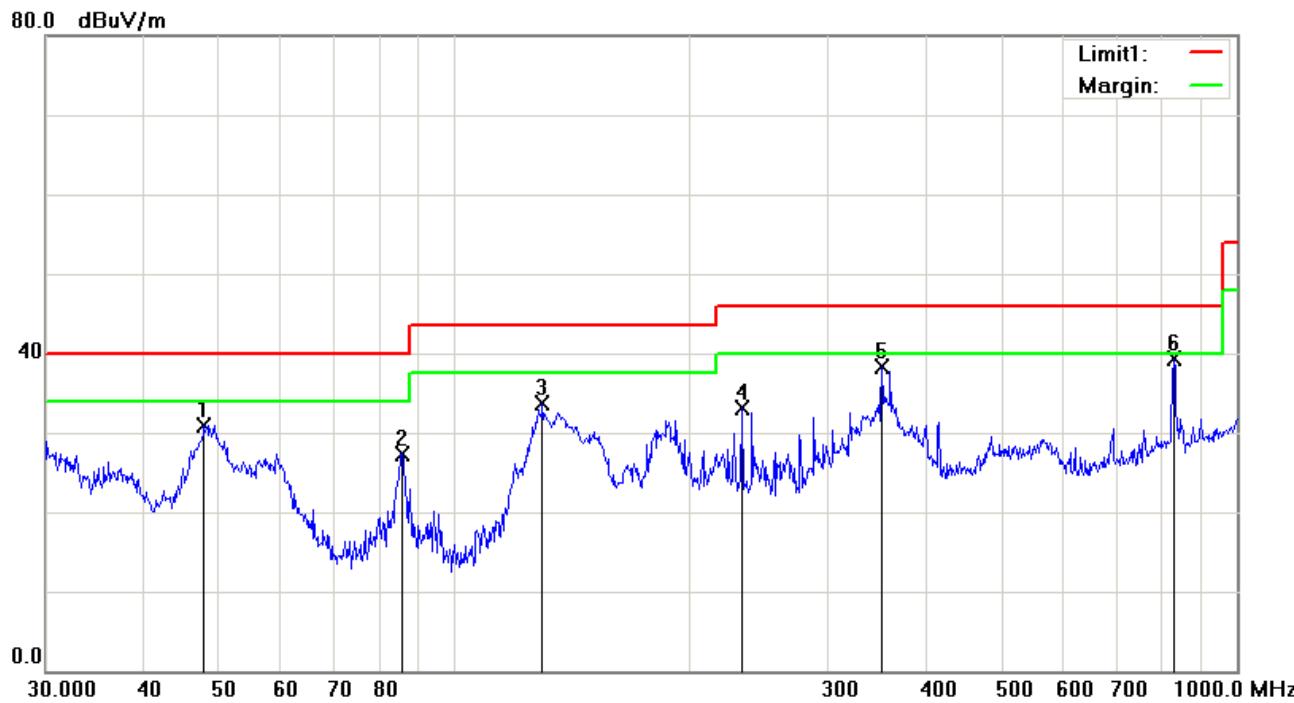
(Below 1GHz)



### Test Data

#### Horizontal Polarity Plot @3m

| No. | P/L | Frequency (MHz) | Reading (dB $\mu$ V/m) | Detector | Corrected (dB/m) | Result (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Height (cm) | Degree (°) |
|-----|-----|-----------------|------------------------|----------|------------------|-----------------------|----------------------|-------------|-------------|------------|
| 1   | H   | 45.5348         | 26.81                  | peak     | -1.71            | 25.10                 | 40.00                | -14.90      | 100         | 239        |
| 2   | H   | 128.1130        | 35.25                  | peak     | -7.82            | 27.43                 | 43.50                | -16.07      | 100         | 126        |
| 3   | H   | 187.7530        | 48.94                  | QP       | -9.37            | 39.57                 | 43.50                | -3.93       | 100         | 126        |
| 4   | H   | 232.5318        | 46.42                  | peak     | -9.04            | 37.38                 | 46.00                | -8.62       | 100         | 92         |
| 5   | H   | 351.7079        | 45.02                  | peak     | -5.42            | 39.60                 | 46.00                | -6.40       | 100         | 32         |
| 6   | H   | 833.3171        | 35.66                  | peak     | 3.61             | 39.27                 | 46.00                | -6.73       | 100         | 73         |



**Test Data**

**Vertical Polarity Plot @3m**

| No. | P/L | Frequency (MHz) | Reading (dB $\mu$ V/m) | Detector | Corrected (dB/m) | Result (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Height (cm) | Degree (°) |
|-----|-----|-----------------|------------------------|----------|------------------|-----------------------|----------------------|-------------|-------------|------------|
| 1   | V   | 47.8260         | 43.96                  | peak     | -12.97           | 30.99                 | 40.00                | -9.01       | 100         | 106        |
| 2   | V   | 85.5977         | 41.11                  | peak     | -13.76           | 27.35                 | 40.00                | -12.65      | 100         | 289        |
| 3   | V   | 129.4678        | 41.18                  | peak     | -7.55            | 33.63                 | 43.50                | -9.87       | 100         | 154        |
| 4   | V   | 233.3487        | 40.61                  | peak     | -7.44            | 33.17                 | 46.00                | -12.83      | 100         | 199        |
| 5   | V   | 351.7079        | 43.32                  | peak     | -5.07            | 38.25                 | 46.00                | -7.75       | 100         | 132        |
| 6   | V   | 830.4002        | 35.49                  | peak     | 3.82             | 39.31                 | 46.00                | -6.69       | 100         | 42         |

|            |                   |
|------------|-------------------|
| Test Mode: | Transmitting Mode |
|------------|-------------------|

(Above 1GHz)

Note: Other modes were verified, only the result of worst case basic rate mode was presented.

Low Channel (2402 MHz)

| Frequency (MHz) | S.A. Reading (dB $\mu$ V) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord. Amp. (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|---------------------------|------------------|----------------|--------------------|-----------------|--------------------|---------------------------|----------------------|-------------|
| 4804            | 36.22                     | AV               | V              | 33.83              | 6.86            | 31.72              | 45.19                     | 54                   | -8.81       |
| 4804            | 35.49                     | AV               | H              | 33.83              | 6.86            | 31.72              | 44.46                     | 54                   | -9.54       |
| 4804            | 46.71                     | PK               | V              | 33.83              | 6.86            | 31.72              | 55.68                     | 74                   | -18.32      |
| 4804            | 45.93                     | PK               | H              | 33.83              | 6.86            | 31.72              | 54.9                      | 74                   | -19.1       |

Middle Channel (2440 MHz)

| Frequency (MHz) | S.A. Reading (dB $\mu$ V) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord. Amp. (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|---------------------------|------------------|----------------|--------------------|-----------------|--------------------|---------------------------|----------------------|-------------|
| 4880            | 34.51                     | AV               | V              | 33.86              | 6.82            | 31.82              | 43.37                     | 54                   | -10.63      |
| 4880            | 34.22                     | AV               | H              | 33.86              | 6.82            | 31.82              | 43.08                     | 54                   | -10.92      |
| 4880            | 46.05                     | PK               | V              | 33.86              | 6.82            | 31.82              | 54.91                     | 74                   | -19.09      |
| 4880            | 45.18                     | PK               | H              | 33.86              | 6.82            | 31.82              | 54.04                     | 74                   | -19.96      |

High Channel (2480 MHz)

| Frequency (MHz) | S.A. Reading (dB $\mu$ V) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord. Amp. (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|---------------------------|------------------|----------------|--------------------|-----------------|--------------------|---------------------------|----------------------|-------------|
| 4960            | 33.83                     | AV               | V              | 33.9               | 6.76            | 31.92              | 42.57                     | 54                   | -11.43      |
| 4960            | 36.09                     | AV               | H              | 33.9               | 6.76            | 31.92              | 44.83                     | 54                   | -9.17       |
| 4960            | 46.65                     | PK               | V              | 33.9               | 6.76            | 31.92              | 55.39                     | 74                   | -18.61      |
| 4960            | 45.84                     | PK               | H              | 33.9               | 6.76            | 31.92              | 54.58                     | 74                   | -19.42      |

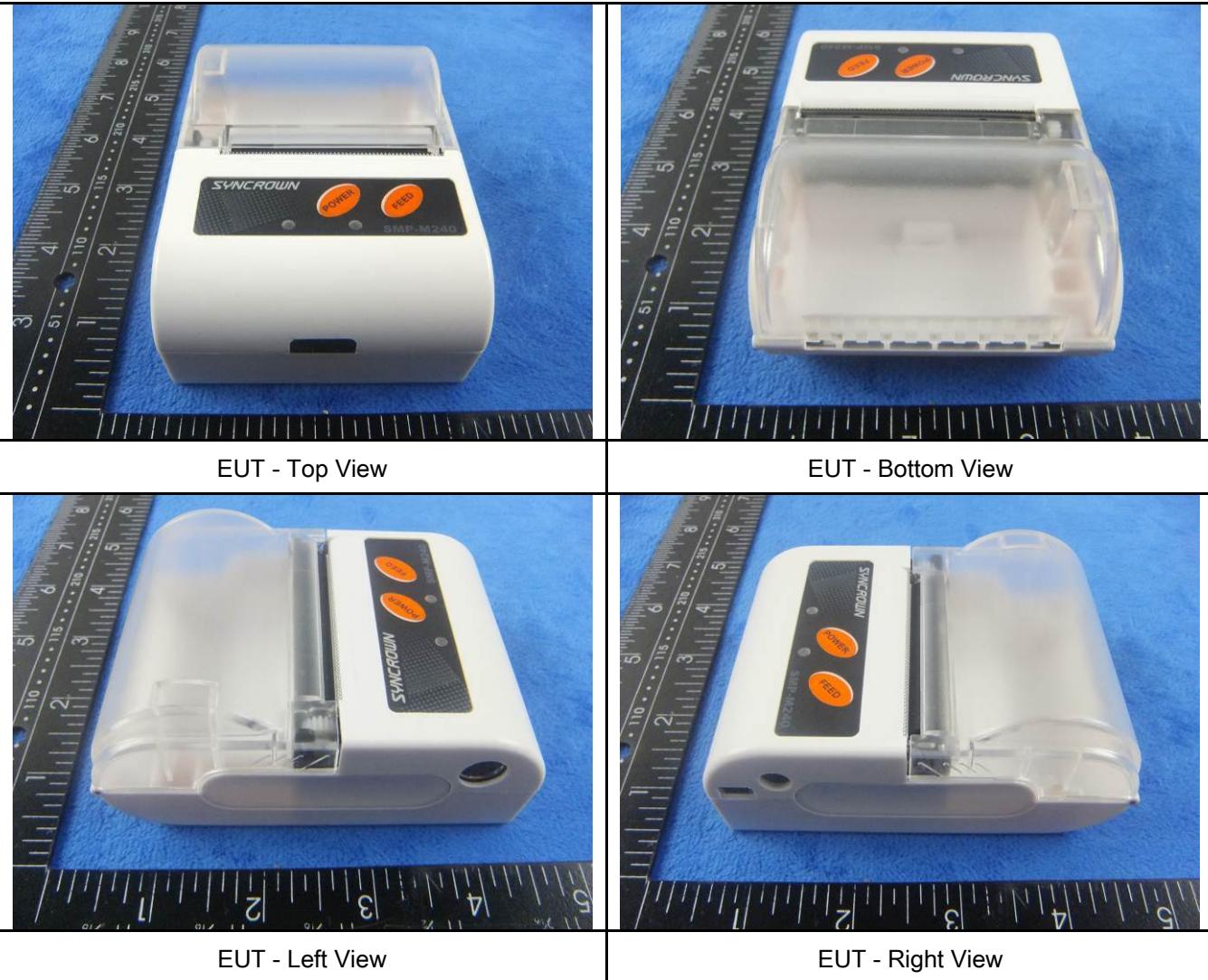
## Annex A. TEST INSTRUMENT

| Instrument                              | Model    | Serial #    | Cal Date   | Cal Due    | In use                              |
|-----------------------------------------|----------|-------------|------------|------------|-------------------------------------|
| <b>AC Line Conducted</b>                |          |             |            |            |                                     |
| EMI test receiver                       | ESCS30   | 8471241027  | 09/18/2014 | 09/17/2015 | <input checked="" type="checkbox"/> |
| Line Impedance                          | LI-125A  | 191106      | 09/26/2014 | 09/25/2015 | <input checked="" type="checkbox"/> |
| Line Impedance                          | LI-125A  | 191107      | 09/26/2014 | 09/25/2015 | <input checked="" type="checkbox"/> |
| LISN                                    | ISN T800 | 34373       | 09/26/2014 | 09/25/2015 | <input checked="" type="checkbox"/> |
| Transient Limiter                       | LIT-153  | 531118      | 09/02/2014 | 09/01/2015 | <input checked="" type="checkbox"/> |
| <b>RF conducted test</b>                |          |             |            |            |                                     |
| Agilent ESA-E SERIES                    | E4407B   | MY45108319  | 09/18/2014 | 09/17/2015 | <input checked="" type="checkbox"/> |
| Power Splitter                          | 1#       | 1#          | 09/02/2014 | 09/01/2015 | <input checked="" type="checkbox"/> |
| DC Power Supply                         | E3640A   | MY40004013  | 09/18/2014 | 09/17/2015 | <input checked="" type="checkbox"/> |
| <b>Radiated Emissions</b>               |          |             |            |            |                                     |
| EMI test receiver                       | ESL6     | 100262      | 09/18/2014 | 09/17/2015 | <input checked="" type="checkbox"/> |
| Positioning Controller                  | UC3000   | MF780208282 | 11/20/2014 | 11/19/2015 | <input checked="" type="checkbox"/> |
| OPT 010 AMPLIFIER<br>(0.1-1300MHz)      | 8447E    | 2727A02430  | 09/02/2014 | 09/01/2015 | <input checked="" type="checkbox"/> |
| Microwave Preamplifier<br>(1 ~ 26.5GHz) | 8449B    | 3008A02402  | 03/25/2015 | 03/24/2016 | <input checked="" type="checkbox"/> |
| Bilog Antenna<br>(30MHz~6GHz)           | JB6      | A110712     | 09/22/2014 | 09/21/2015 | <input checked="" type="checkbox"/> |
| Double Ridge Horn<br>Antenna (1 ~18GHz) | AH-118   | 71283       | 09/25/2014 | 09/24/2015 | <input checked="" type="checkbox"/> |
| Universal Radio<br>Communication Tester | CMU200   | 121393      | 09/26/2014 | 09/25/2015 | <input checked="" type="checkbox"/> |

## Annex B. EUT And Test Setup Photographs

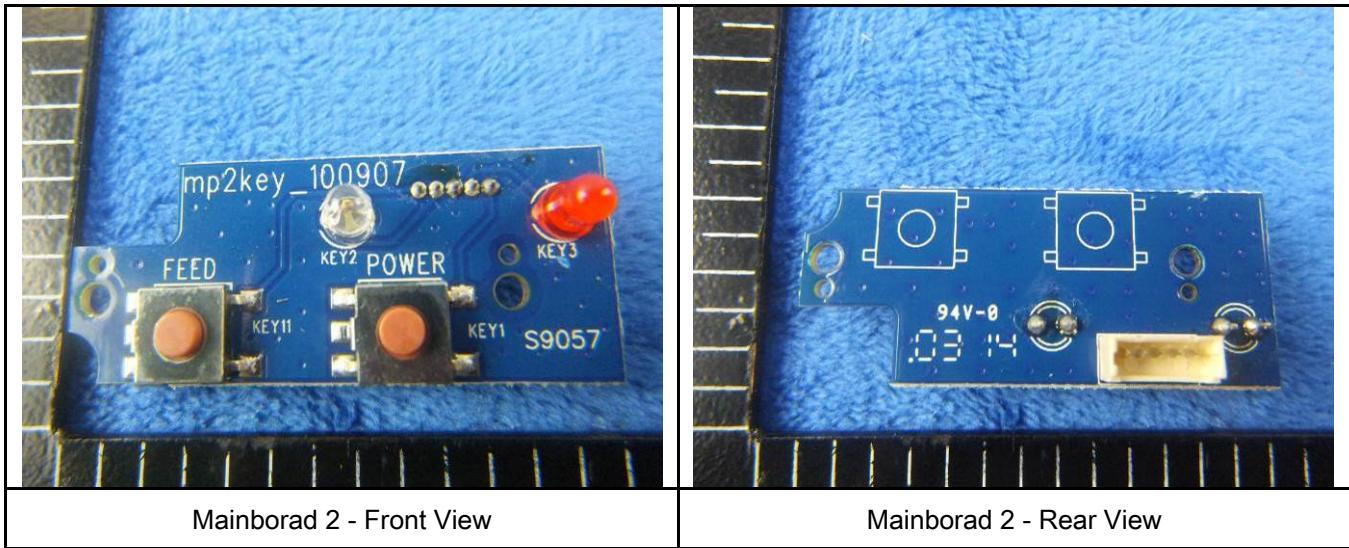
## Annex B.i. Photograph: EUT External Photo



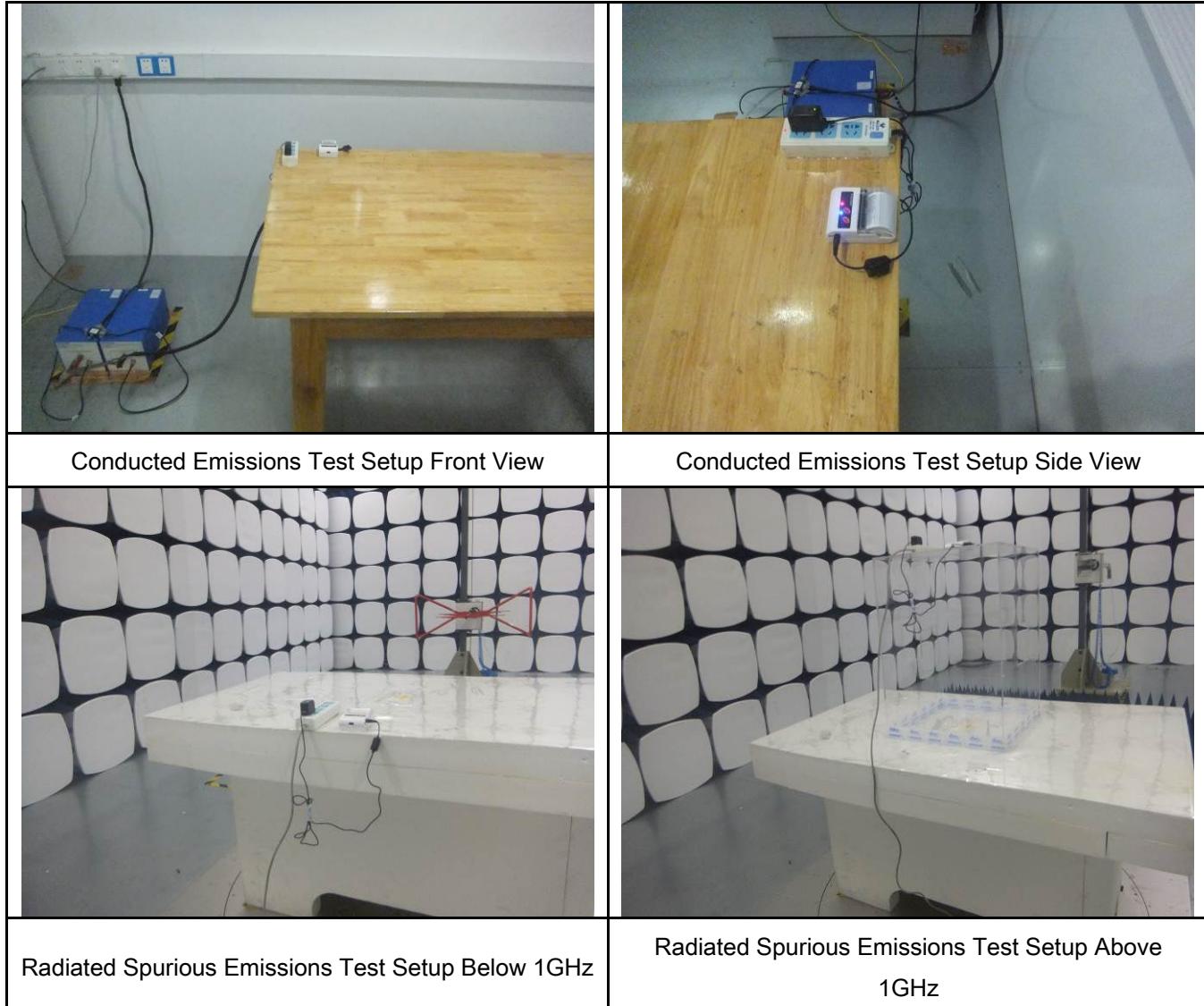


**Annex B.ii. Photograph: EUT Internal Photo**





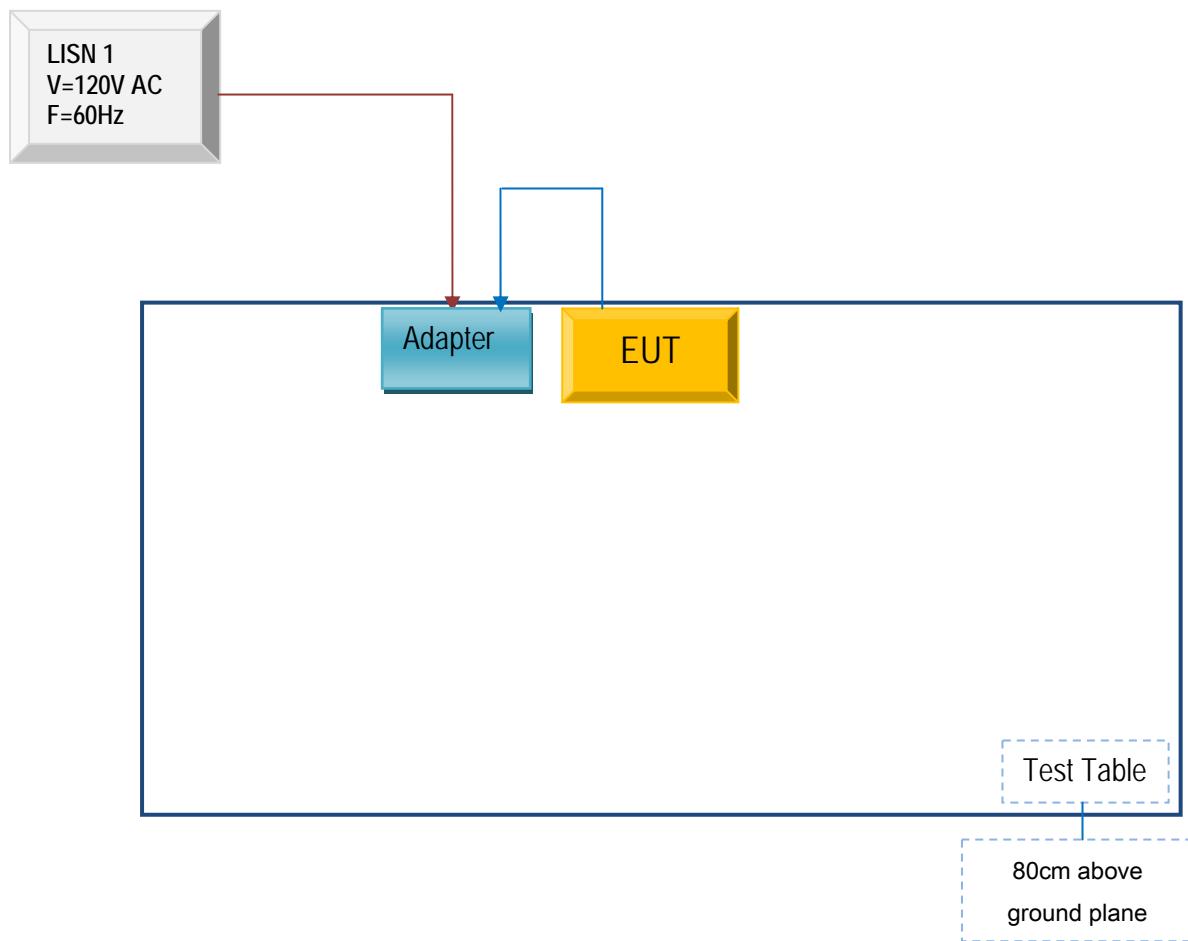
**Annex B.iii. Photograph: Test Setup Photo**



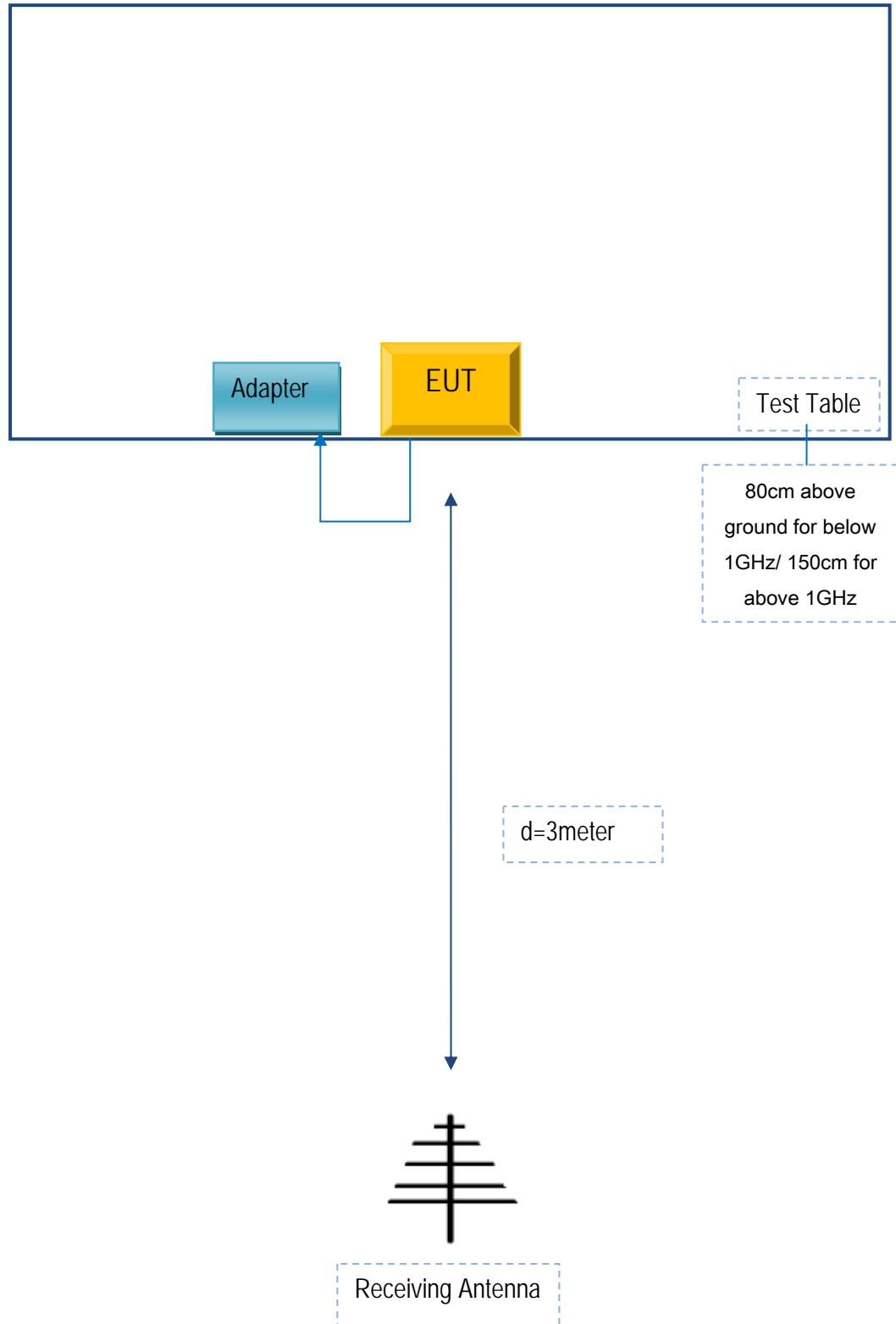
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for AC Line Conducted Emissions



## Block Configuration Diagram for Radiated Emissions



### Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

| Manufacturer | Equipment Description | Model | Calibration Date | Calibration Due Date |
|--------------|-----------------------|-------|------------------|----------------------|
| N/A          | N/A                   | N/A   | N/A              | N/A                  |

|                 |                 |
|-----------------|-----------------|
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## Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment

|                 |                 |
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## Annex E. DECLARATION OF SIMILARITY

N/A