

EMC TEST REPORT



Report No.: 15070186-FCC-E1

Supersede Report No.: N/A

| | | |
|---|--|---|
| Applicant | MOBIWIRE MOBILES (NINGBO) CO.,LTD | |
| Product Name | Smartphone | |
| Model No. | H403 | |
| Serial No. | N/A | |
| Test Standard | FCC Part 15 Subpart B Class B:2014, ANSI C63.4: 2014 | |
| Test Date | April 09 to April 10, 2015 | |
| Issue Date | May 05, 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"/> | | |
| Lili Xia | Chris You |  |
| LiLi Xia Test Engineer | Chris You 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:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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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 |
|-----------------|----------------|-------------|--------------|
| 15070186-FCC-E1 | NONE | Original | May 05, 2015 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| | |
|------------------|--|
| Applicant Name | MOBIWIRE MOBILES (NINGBO) CO.,LTD |
| Applicant Add | No.999,Dacheng East Road,Fenghua City,Zhejiang |
| Manufacturer | MOBIWIRE MOBILES (NINGBO) CO.,LTD |
| Manufacturer Add | No.999,Dacheng East Road,Fenghua City,Zhejiang |

3. Test site information

| | |
|----------------------|---|
| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES |
| Lab Address | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong 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: Smartphone

Main Model: H403

Serial Model: N/A

Date EUT received: March 24, 2015

Test Date(s): April 09 to April 10, 2015

Equipment Category : JBP

UMTS-FDD Band V/GSM850: 0.5 dBi

PCS1900/UMTS-FDD Band II: 1.5 dBi

Antenna Gain: UMTS-FDD Band IV: 1.5 dBi

Bluetooth/BLE: -1 dBi

WIFI: -1 dBi

GSM / GPRS: GMSK

EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK, 16QAM

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, $\pi/4$ DQPSK, 8DPSK

BLE: GFSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band IV TX : 1712.4 ~ 1752.6 MHz;

RX : 2112.4 ~ 2152.6 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz

WIFI: 802.11n(40M): 2422-2452 MHz

Bluetooth& BLE: 2402-2480 MHz

| | |
|-------------|-----------------|
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GSM 850: 124CH
PCS1900: 299CH
UMTS-FDD Band V : 102CH
UMTS-FDD Band II : 277CH
UMTS-FDD Band IV: 202CH
WIFI :802.11b/g/n(20M): 11CH
WIFI :802.11n(40M): 7CH
Bluetooth: 79CH
BLE: 40CH

Number of Channels: Power Port, Earphone Port, USB Port

Port: Battery:
Model: H403

Spec: 3.7V 1400mAh 5.18Wh

Input Power: Adapter:
Model: A8+500550
Input: AC 100-240V; 50/60Hz 0.2A Max
Output: DC 5.0V; 550mA

Trade Name : N/A

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: 2ADA4H403

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 |
|---------------------------|-----------------------------------|------------|
| §15.107; ANSI C63.4: 2014 | AC Power Line Conducted Emissions | Compliance |
| §15.109; ANSI C63.4: 2014 | Radiated Emissions | Compliance |

Measurement Uncertainty

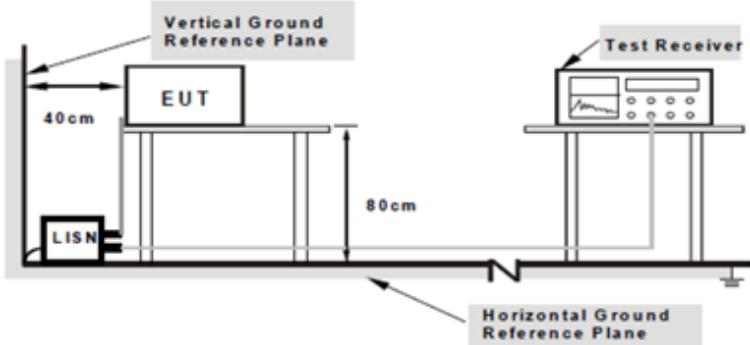
| Emissions | | |
|---|---|---------------|
| Test Item | Description | Uncertainty |
| Band Edge and Radiated Spurious Emissions | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |
| - | -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

6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

| | |
|----------------------|----------------|
| Temperature | 21°C |
| Relative Humidity | 58% |
| Atmospheric Pressure | 1010mbar |
| Test date : | April 09, 2015 |
| Tested By : | LiLi Xia |

Requirement(s):

| Spec | Item | Requirement | Applicable | | | | | | | | | | | | | | |
|---------------------------|---|---|---------------------------|--------------------|--|----|---------|------------|---------|---------|---------|----|----|--------|----|----|-------------------------------------|
| 47CFR§15. 107 | 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 (dBμV)</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 μ 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 μ V) | | | | | | | | | | | | | | | | |
| | QP | Average | | | | | | | | | | | | | | | |
| 0.15 ~ 0.5 | 66 – 56 | 56 – 46 | | | | | | | | | | | | | | | |
| 0.5 ~ 5 | 56 | 46 | | | | | | | | | | | | | | | |
| 5 ~ 30 | 60 | 50 | | | | | | | | | | | | | | | |
| Test Setup |  <p>The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a table. A LISN (Line Impedance Stabilization Network) is connected between the EUT and the power source. A Test Receiver is connected to the LISN. The setup is positioned on a horizontal ground reference plane. The distance between the LISN and the EUT is 40 cm, and the distance between the LISN and the Test Receiver is 80 cm. A vertical ground reference plane is also indicated.</p> <p>Note: 1. Support units were connected to second LISN. 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"> 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. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. | | | | | | | | | | | | | | | | |

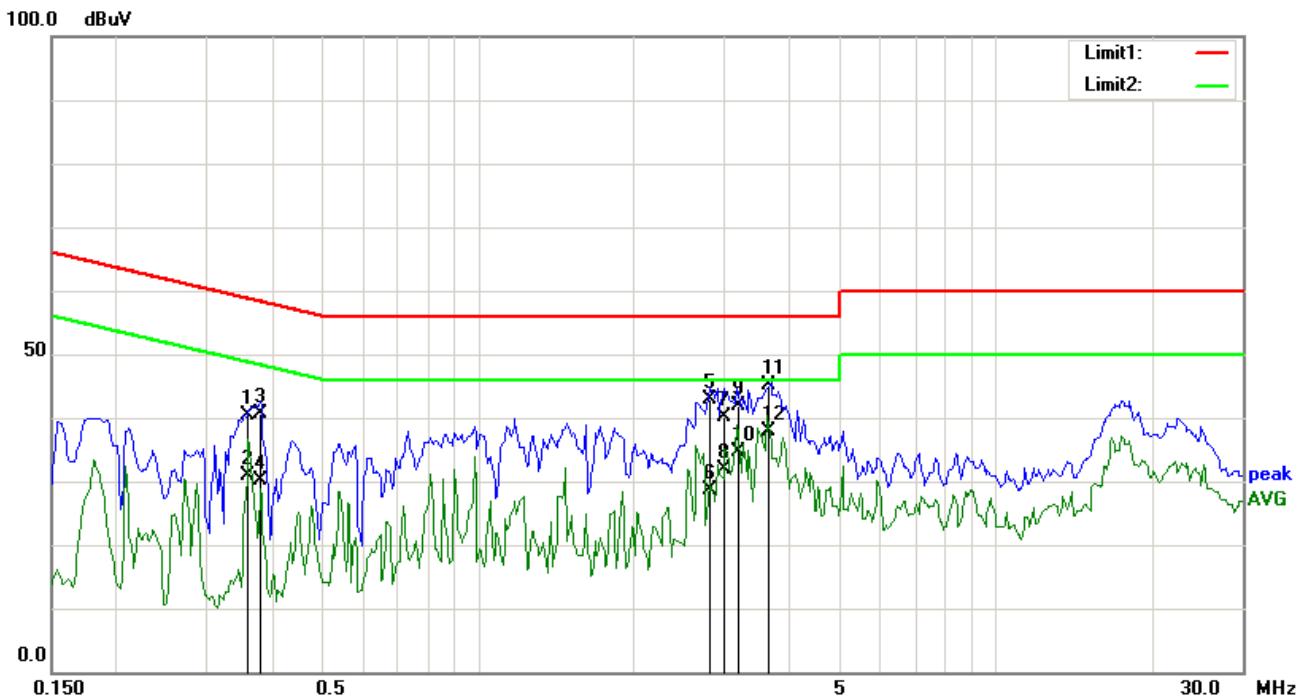
| | |
|--------|--|
| | <ol style="list-style-type: none"> 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 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. 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. 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 1: USB Mode

Peak Detector  Quasi Peak Limit 
 Average Detector  Average Limit 

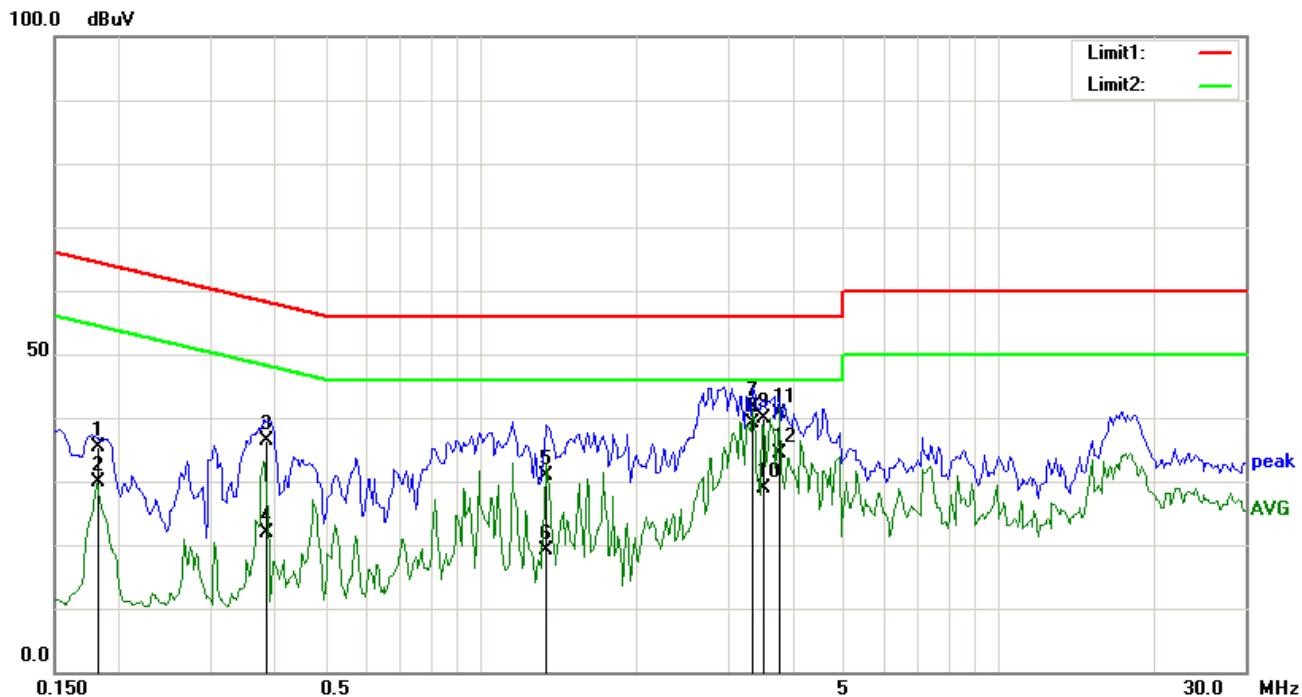

Test Data

Phase Line Plot at 230Vac, 50Hz

| No. | P/L | Frequency (MHz) | Reading (dBuV) | Detector | Corrected (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|---------|
| | | | | | | | | | |
| 1 | L1 | 0.3609 | 29.29 | QP | 11.20 | 40.49 | 58.71 | -18.22 | |
| 2 | L1 | 0.3609 | 19.69 | AVG | 11.20 | 30.89 | 48.71 | -17.82 | |
| 3 | L1 | 0.3805 | 29.52 | QP | 11.19 | 40.71 | 58.27 | -17.56 | |
| 4 | L1 | 0.3805 | 18.97 | AVG | 11.19 | 30.16 | 48.27 | -18.11 | |
| 5 | L1 | 2.8091 | 31.95 | QP | 10.90 | 42.85 | 56.00 | -13.15 | |
| 6 | L1 | 2.8091 | 17.63 | AVG | 10.90 | 28.53 | 46.00 | -17.47 | |
| 7 | L1 | 3.0078 | 29.15 | QP | 10.90 | 40.05 | 56.00 | -15.95 | |
| 8 | L1 | 3.0078 | 21.00 | AVG | 10.90 | 31.90 | 46.00 | -14.10 | |
| 9 | L1 | 3.1900 | 30.88 | QP | 10.90 | 41.78 | 56.00 | -14.22 | |
| 10 | L1 | 3.1900 | 23.85 | AVG | 10.90 | 34.75 | 46.00 | -11.25 | |
| 11 | L1 | 3.6418 | 34.27 | QP | 10.90 | 45.17 | 56.00 | -10.83 | |
| 12 | L1 | 3.6418 | 26.95 | AVG | 10.90 | 37.85 | 46.00 | -8.15 | |

Test Mode 1: USB Mode

Peak Detector  Quasi Peak Limit 
 Average Detector  Average Limit 


Test Data

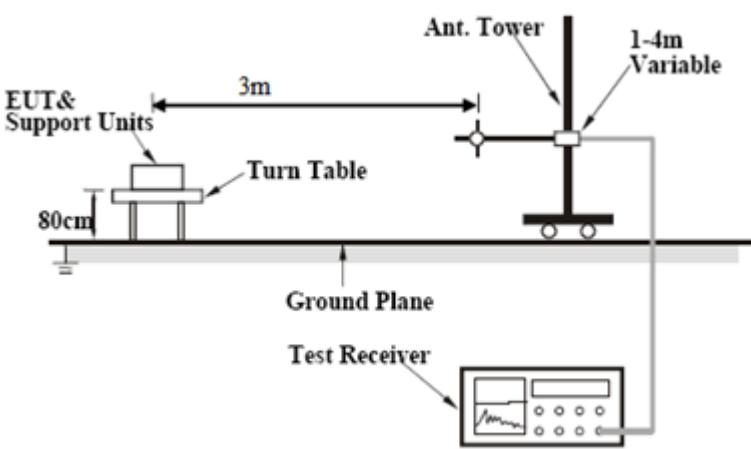
Phase Neutral Plot at 230Vac, 50Hz

| No. | P/L | Frequency (MHz) | Reading (dBuV) | Detector | Corrected (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|---------|
| 1 | N | 0.1825 | 35.32 | QP | 0.00 | 35.32 | 64.37 | -29.05 | |
| 2 | N | 0.1825 | 29.94 | AVG | 0.00 | 29.94 | 54.37 | -24.43 | |
| 3 | N | 0.3852 | 36.50 | QP | 0.00 | 36.50 | 58.17 | -21.67 | |
| 4 | N | 0.3852 | 21.94 | AVG | 0.00 | 21.94 | 48.17 | -26.23 | |
| 5 | N | 1.3379 | 30.83 | QP | 0.00 | 30.83 | 56.00 | -25.17 | |
| 6 | N | 1.3379 | 19.22 | AVG | 0.00 | 19.22 | 46.00 | -26.78 | |
| 7 | N | 3.3555 | 41.53 | QP | 0.00 | 41.53 | 56.00 | -14.47 | |
| 8 | N | 3.3555 | 39.01 | AVG | 0.00 | 39.01 | 46.00 | -6.99 | |
| 9 | N | 3.5092 | 39.97 | QP | 0.00 | 39.97 | 56.00 | -16.03 | |
| 10 | N | 3.5092 | 28.96 | AVG | 0.00 | 28.96 | 46.00 | -17.04 | |
| 11 | N | 3.7813 | 40.75 | QP | 0.00 | 40.75 | 56.00 | -15.25 | |
| 12 | N | 3.7813 | 34.29 | AVG | 0.00 | 34.29 | 46.00 | -11.71 | |

6.2 Radiated Emissions

| | |
|----------------------|----------------|
| Temperature | 22°C |
| Relative Humidity | 50% |
| Atmospheric Pressure | 1011mbar |
| Test date : | April 10, 2015 |
| Tested By : | LiLi Xia |

Requirement(s):

| Spec | Item | Requirement | Applicable | | | | | | | | | | |
|-----------------------|-----------------------------|---|-----------------------|-----------------------------|---------|-----|----------|-----|-----------|-----|-----------|-----|-------------------------------------|
| 47CFR§15. 107(d) | a) | <p>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</p> <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 (μ V/m) | 30 – 88 | 100 | 88 – 216 | 150 | 216 – 960 | 200 | Above 960 | 500 | <input checked="" type="checkbox"/> |
| Frequency range (MHz) | Field Strength (μ V/m) | | | | | | | | | | | | |
| 30 – 88 | 100 | | | | | | | | | | | | |
| 88 – 216 | 150 | | | | | | | | | | | | |
| 216 – 960 | 200 | | | | | | | | | | | | |
| Above 960 | 500 | | | | | | | | | | | | |
| Test Setup | |  <p>The diagram illustrates the test setup for radiated emissions. A 'Turn Table' is positioned 80cm above a 'Ground Plane'. An 'EUT & Support Units' is placed on the turn table. A vertical 'Ant. Tower' is positioned 3m away from the EUT. The antenna height is adjustable, indicated as '1-4m Variable'. A 'Test Receiver' is connected to the antenna to measure the signal levels.</p> | | | | | | | | | | | |
| Procedure | | <ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. 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"> Vertical or horizontal polarization (whichever gave the higher emission level) | | | | | | | | | | | |

| | |
|--------|---|
| | <p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</p> <p>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.</p> <p>The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz.</p> <ul style="list-style-type: none"> ■ 1 kHz (Duty cycle < 98%) <input type="checkbox"/> 10 Hz (Duty cycle > 98%) <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p> |
| Remark | |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail |

Test Data Yes N/A

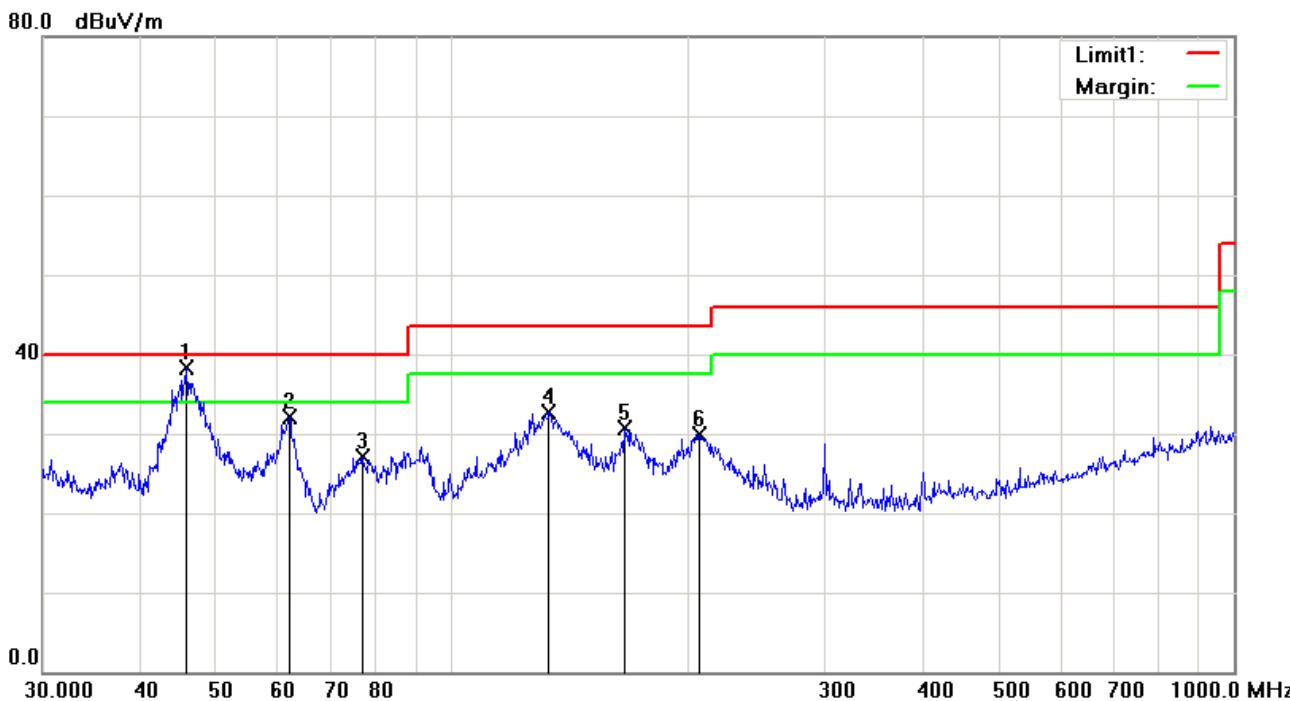
Test Plot Yes (See below) N/A

Test Mode: USB Mode

Below 1GHz

Peak Detector 

Quasi Peak Limit 



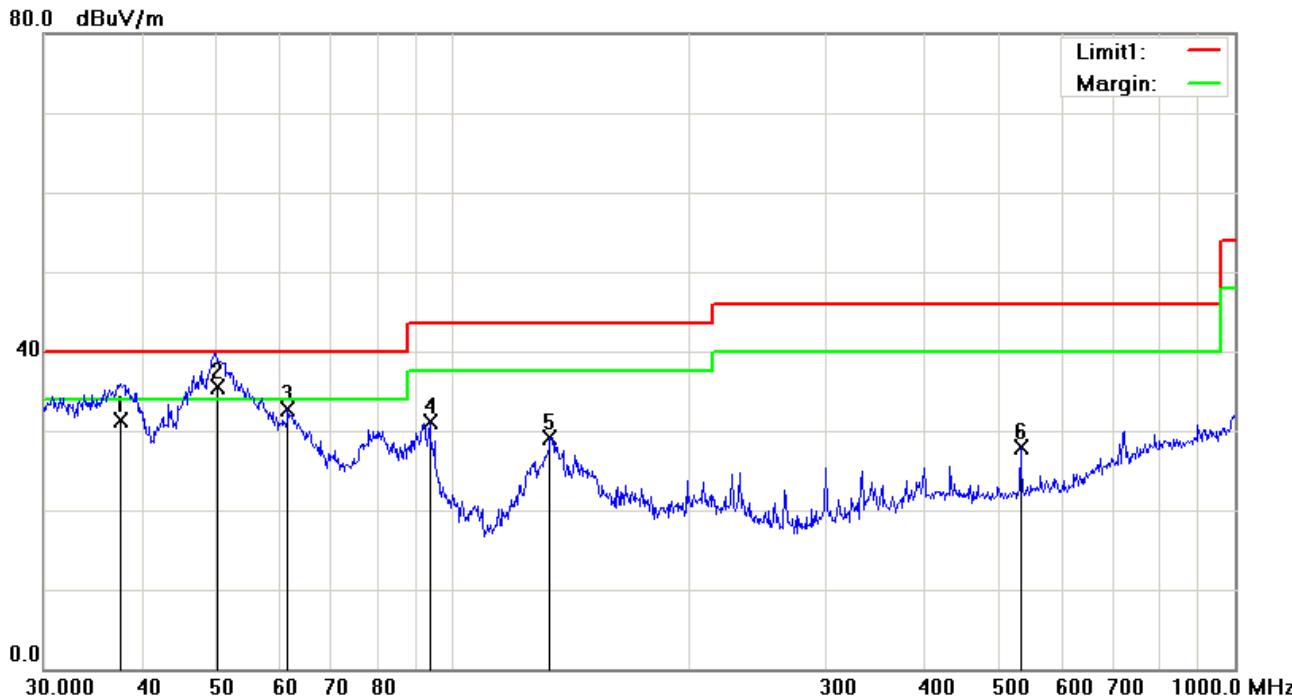
Test Data

Horizontal Polarity Plot @3m

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Height | Degree | Comment |
|-----|-----|-----------|----------|----------|-----------|----------|----------|--------|--------|--------|---------|
| | | (MHz) | (dBuV/m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () | |
| 1 | H | 45.8553 | 40.83 | peak | -2.54 | 38.29 | 40.00 | -1.71 | 200 | 176 | |
| 2 | H | 61.9951 | 46.29 | peak | -14.20 | 32.09 | 40.00 | -7.91 | 200 | 154 | |
| 3 | H | 76.7808 | 40.94 | peak | -13.76 | 27.18 | 40.00 | -12.82 | 200 | 150 | |
| 4 | H | 133.1511 | 40.78 | peak | -8.12 | 32.66 | 43.50 | -10.84 | 200 | 165 | |
| 5 | H | 166.0680 | 39.52 | peak | -8.78 | 30.74 | 43.50 | -12.76 | 200 | 172 | |
| 6 | H | 207.1226 | 38.75 | peak | -8.81 | 29.94 | 43.50 | -13.56 | 100 | 133 | |

Below 1GHz

Peak Detector 
 Quasi Peak Limit 



Test Data

Vertical Polarity Plot @3m

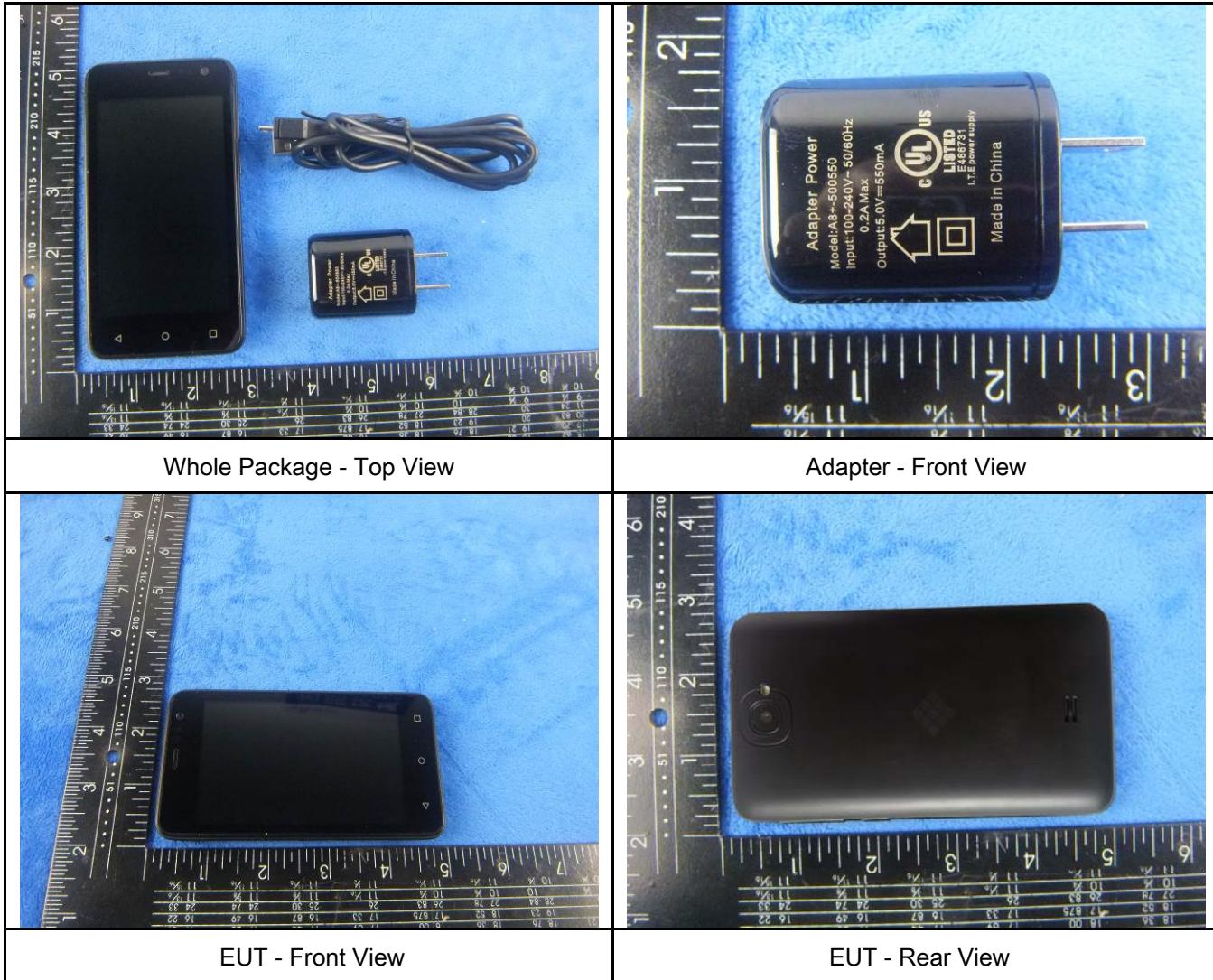
| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Height | Degree | Comment |
|-----|-----|-----------|----------|----------|-----------|----------|----------|--------|--------|--------|---------|
| | | (MHz) | (dBuV/m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () | |
| 1 | V | 37.4903 | 36.96 | QP | -5.73 | 31.23 | 40.00 | -8.77 | 100 | 150 | |
| 2 | V | 50.2164 | 49.64 | QP | -14.08 | 35.56 | 40.00 | -4.44 | 100 | 234 | |
| 3 | V | 61.5618 | 46.81 | peak | -14.07 | 32.74 | 40.00 | -7.26 | 200 | 224 | |
| 4 | V | 93.4402 | 44.26 | peak | -13.15 | 31.11 | 43.50 | -12.39 | 100 | 41 | |
| 5 | V | 133.1511 | 36.49 | peak | -7.38 | 29.11 | 43.50 | -14.39 | 200 | 133 | |
| 6 | V | 531.9635 | 30.03 | peak | -2.12 | 27.91 | 46.00 | -18.09 | 100 | 59 | |

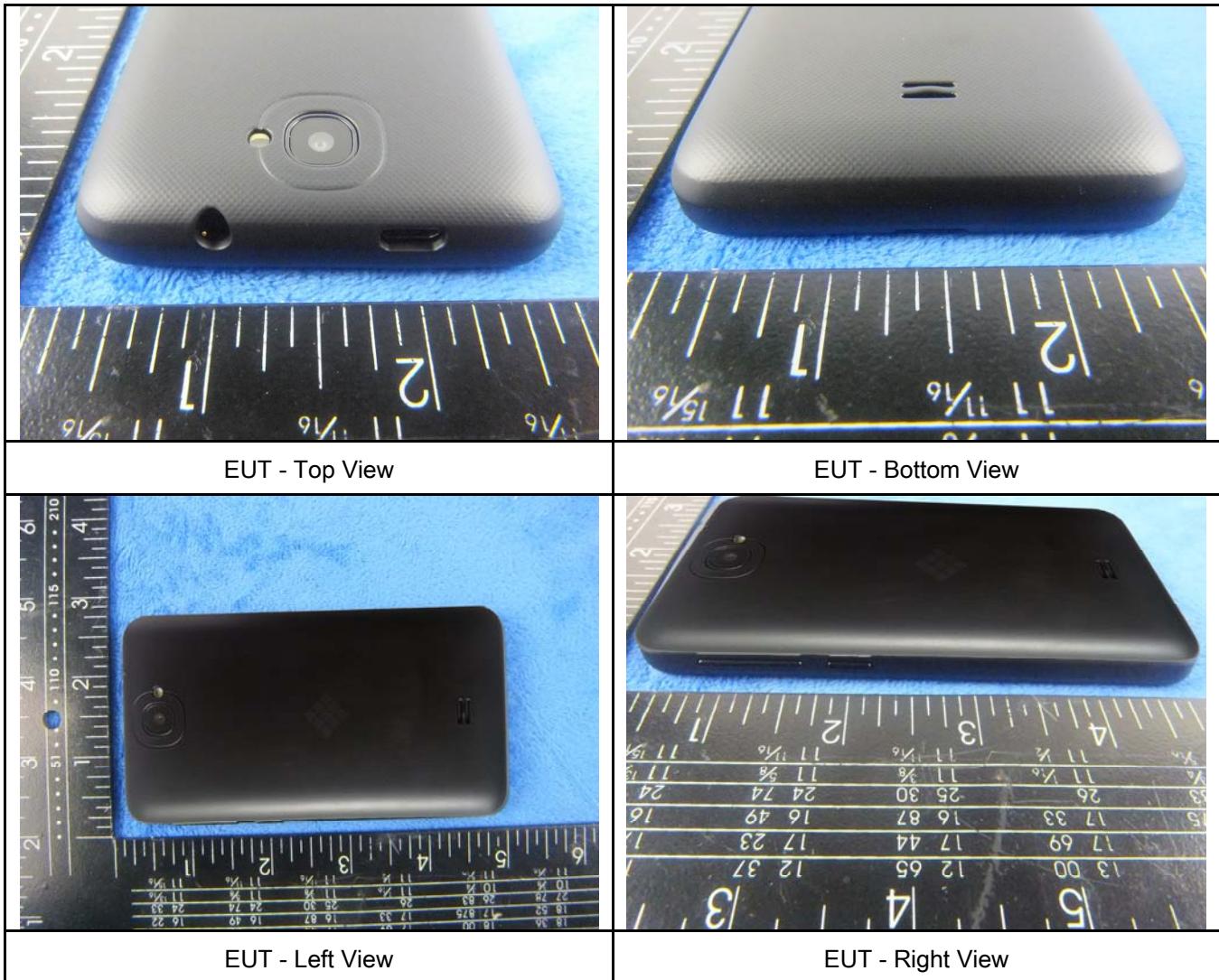
Annex A. TEST INSTRUMENT

| Instrument | Model | Serial # | Cal Date | Cal Due | In use |
|--------------------------------------|----------|------------|------------|------------|-------------------------------------|
| AC Line Conducted Emissions | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 09/18/2014 | 09/17/2015 | <input checked="" type="checkbox"/> |
| Line Impedance Stabilization Network | LI-125A | 191106 | 09/26/2014 | 09/25/2015 | <input checked="" type="checkbox"/> |
| Line Impedance Stabilization Network | 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"/> |
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/18/2014 | 09/17/2015 | <input checked="" type="checkbox"/> |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 09/02/2014 | 09/01/2015 | <input checked="" type="checkbox"/> |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 10/04/2015 | 10/04/2016 | <input checked="" type="checkbox"/> |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/22/2014 | 09/21/2015 | <input checked="" type="checkbox"/> |
| Double Ridge Horn Antenna | AH-118 | 71259 | 09/25/2014 | 09/24/2015 | <input checked="" type="checkbox"/> |

Annex B. EUT And Test Setup Photographs

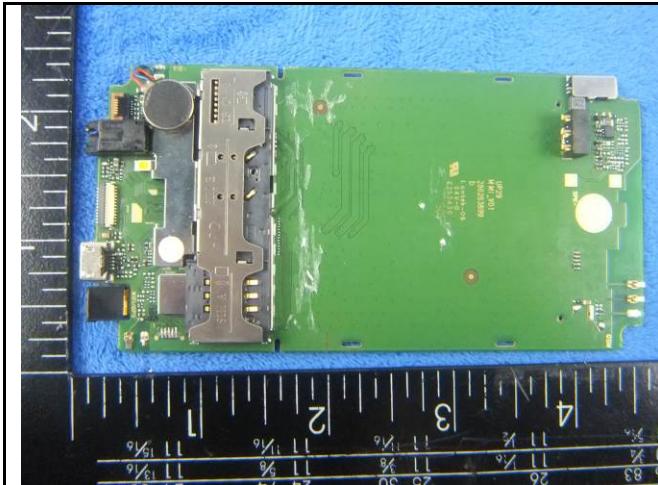
Annex B.i. Photograph: EUT External Photo



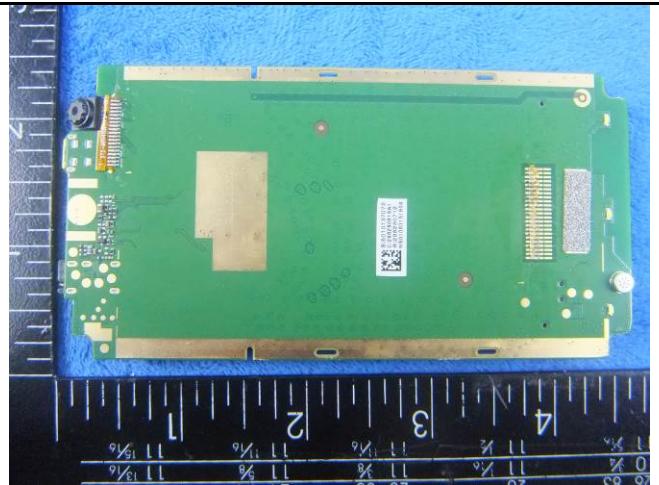


Annex B.ii. Photograph: EUT Internal Photo

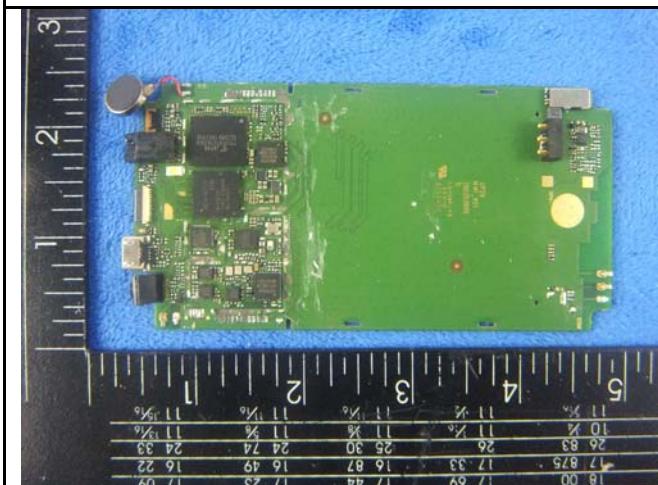




Mainborad With Shielding - Front View



Mainborad - Rear View



Mainborad Without Shielding - Front View

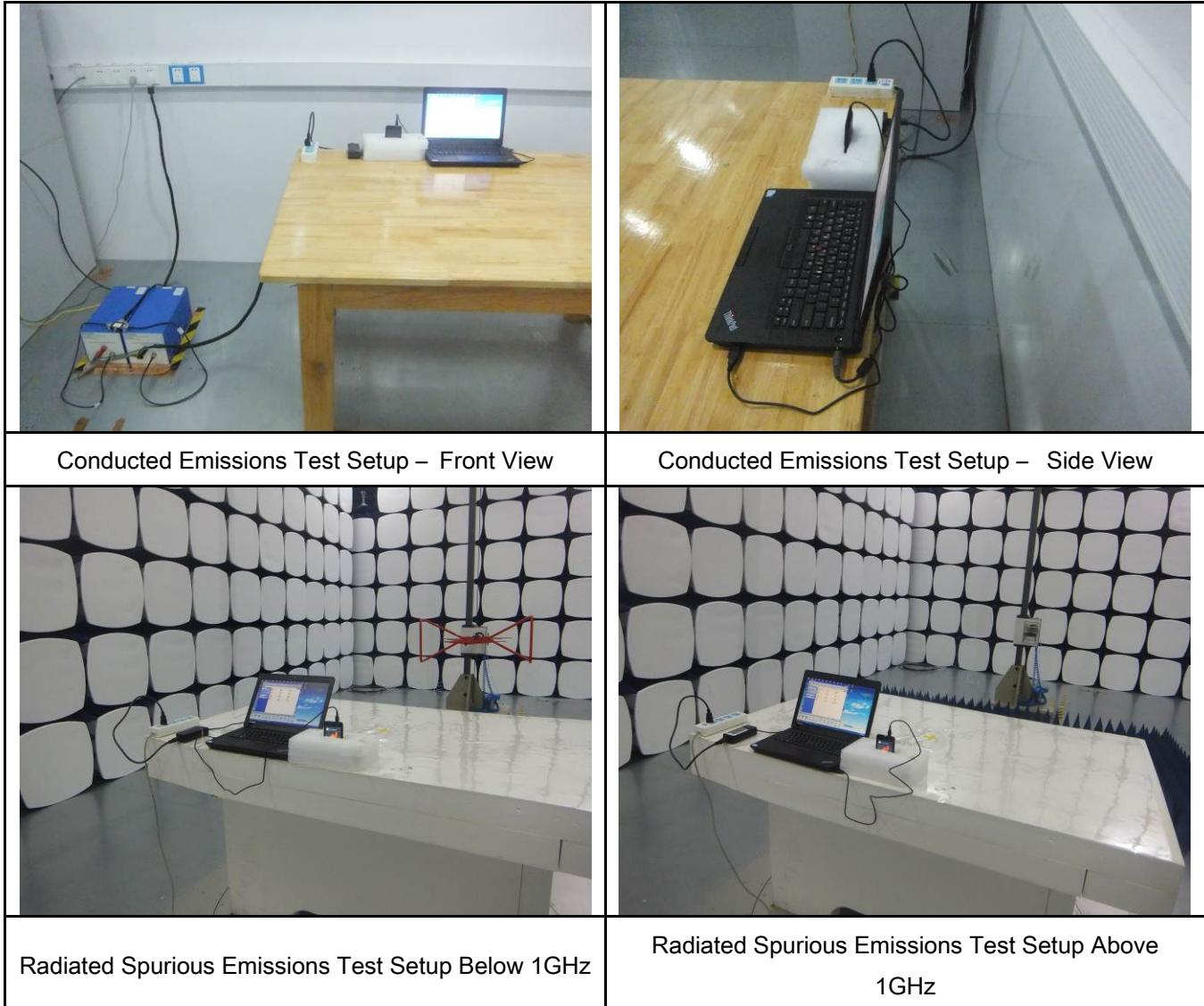


BT/BLE/WIFI Antenna View



GSM/PCS/UMTS-FDD Antenna View

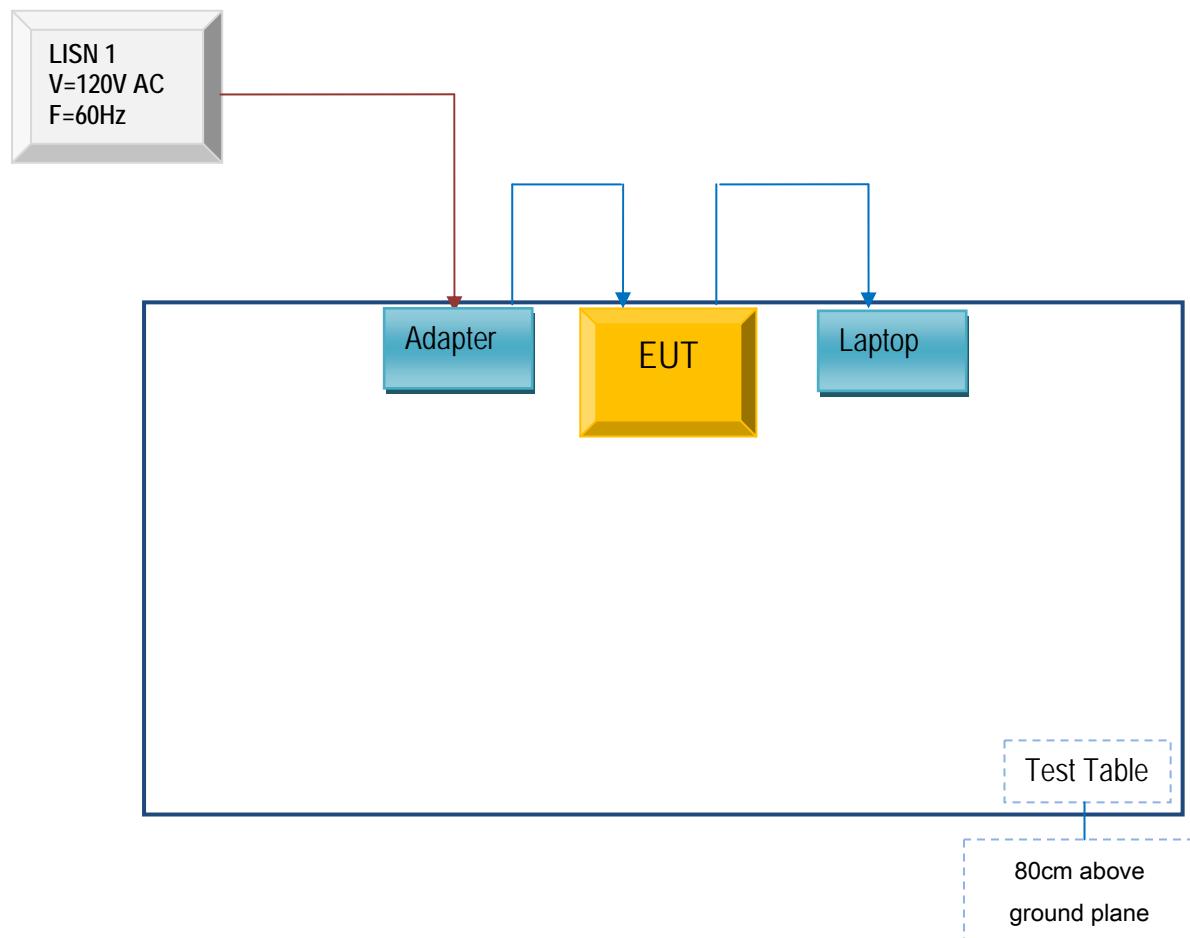
Annex B.iii. Photograph: Test Setup Photo



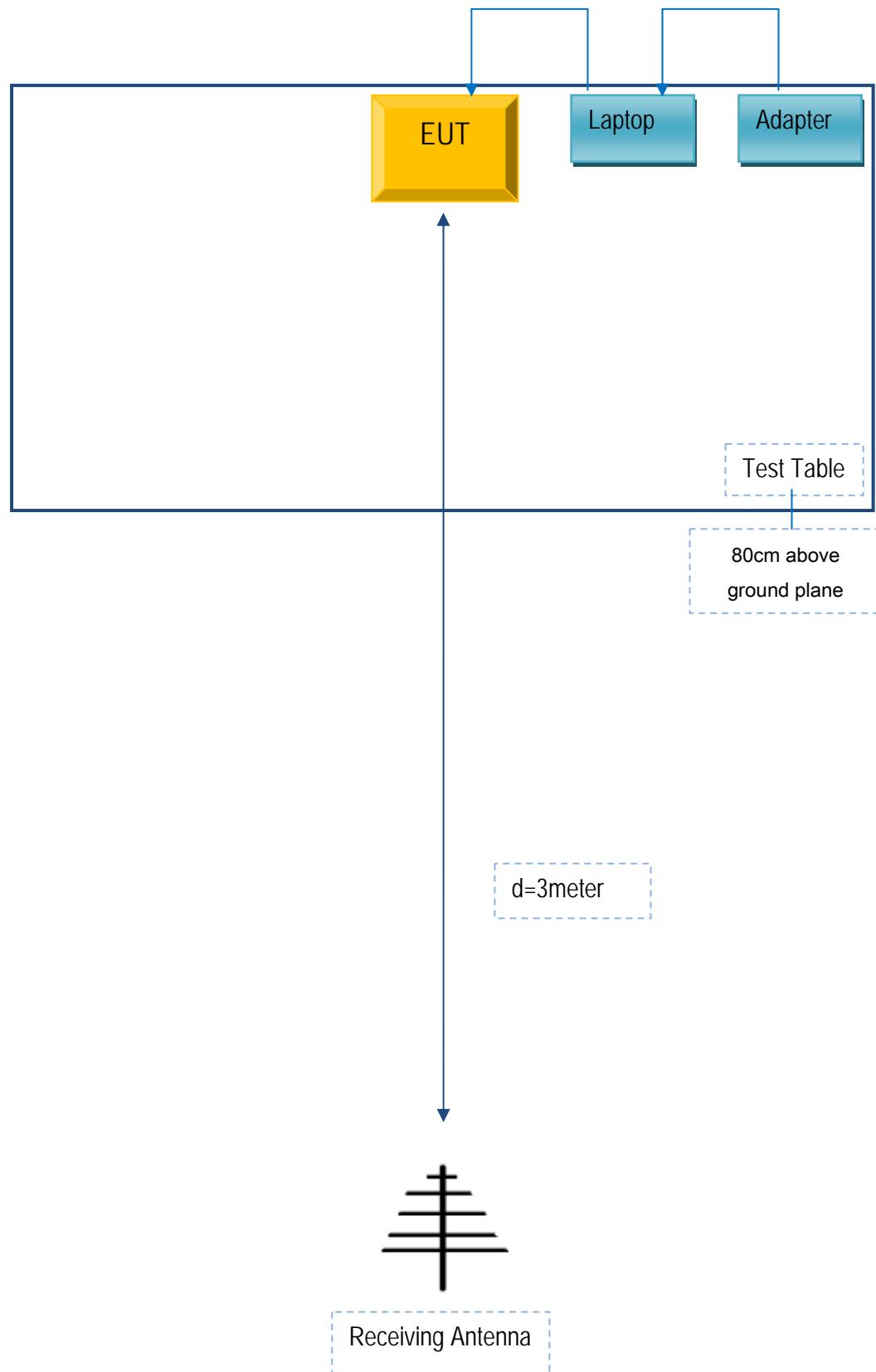
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for 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 |
|--------------|-----------------------|--------------|------------------|----------------------|
| Lenovo | Lenovo Laptop | E40& 0579A52 | N/A | N/A |

Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see Attachment

Annex E. DECLARATION OF SIMILARITY

N/A