EMC TEST REPORT



Report No.: 15050054-FCC-E
Supersede Report No.:N/A

| Applicant | b mobile HK Limited | | | |
|---|---|---------------------------|----------------------|--|
| Product Name | Mobile Phone | | | |
| Model No. | AX1010 | | | |
| Serial No. | AX1005 | | | |
| Test Standard | FCC Part ' | 15 Subpart B Class B:20 | 14, ANSI C63.4: 2014 | |
| Test Date | November 2 | 24 to December 04, 2015 | 5 | |
| Issue Date | December | December 08, 2015 | | |
| Test Result | Pass Fail | | | |
| Equipment complied with the specification | | | | |
| Equipment did no | Equipment did not comply with the specification | | | |
| Winnie Zhang David Huang | | | | |
| Winnie Zhang Test Engineer | | David Huang 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

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 2 of 30 |

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 | |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 3 of 30 |

This page has been left blank intentionally.



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 4 of 30 |

CONTENTS

| 1. | REPORT REVISION HISTORY | 5 |
|-----|--|----|
| 2. | CUSTOMER INFORMATION | 5 |
| 3. | TEST SITE INFORMATION | 5 |
| 4. | EQUIPMENT UNDER TEST (EUT) INFORMATION | 6 |
| 5. | TEST SUMMARY | 8 |
| 6. | MEASUREMENTS, EXAMINATION AND DERIVED RESULTS | 9 |
| 6.1 | AC POWER LINE CONDUCTED EMISSIONS | 9 |
| 6.2 | RADIATED EMISSIONS | 15 |
| ANI | NEX A. TEST INSTRUMENT | 20 |
| ANI | NEX B. EUT AND TEST SETUP PHOTOGRAPHS | 21 |
| ANI | NEX C. TEST SETUP AND SUPPORTING EQUIPMENT | 26 |
| ANI | NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST | 29 |
| ANI | NEX E. DECLARATION OF SIMILARITY | 30 |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 5 of 30 |

1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|----------------|----------------|-------------|-------------------|
| 15050054-FCC-E | NONE | Original | December 08, 2015 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | b mobile HK Limited | |
|------------------|---|--|
| Applicant Add | Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung;New | |
| | Territories; Hong Kong | |
| Manufacturer | b mobile HK Limited | |
| Manufacturer Add | Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung;New | |
| | Territories; Hong Kong | |

3. Test site information

| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES | |
|---|---|--|
| Zone A, Floor 1, Building 2 Wan Ye Long Technology Park | | |
| Lab Address | 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 | |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 6 of 30 |

4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: AX1010

Serial Model: AX1005

Date EUT received: November 23,2015

Test Date(s): November 24 to December 04, 2015

GSM850: -3.3dBi PCS1900: -4.6dBi

UMTS-FDD Band V: -3.4dBi UMTS-FDD Band II: -3.4dBi

Bluetooth/BLE: -3.5dBi

Antenna Gain: WIFI: -4.2dBi

LTE Band 2: -5.2 dBi LTE Band 4: -4.1dBi LTE Band 5: -3.5dBi LTE Band 7: -2.9dBi

GPS: -3.9dBi

GSM / GPRS: GMSK EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM

Type of Modulation:

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

LTE Band: QPSK, 16QAM

GPS:BPSK

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

RF Operating Frequency (ies): 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



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 7 of 30 |

WIFI:802.11b/g/n(20M): 2412-2472 MHz WIFI:802.11n(40M): 2422-2462 MHz Bluetooth& BLE: 2402-2480 MHz

LTE Band 2 TX: $1852.5 \sim 1907.5$ MHz; RX: $1932.5 \sim 1987.5$ MHz LTE Band 4 TX: $1712.5 \sim 1752.5$ MHz; RX: $2112.5 \sim 2152.5$ MHz LTE Band 5 TX: $826.5 \sim 846.5$ MHz; RX: $871.5 \sim 891.5$ MHz LTE Band 7 TX: $2502.5 \sim 2567.5$ MHz; RX: $2622.5 \sim 2687.5$ MHz

GPS RX:1575.42 MHz

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH
UMTS-FDD Band II: 277CH
WIFI:802.11b/g/n(20M): 13CH

WIFI:802.11n(40M):9CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Battery:

Model:AX1010

Standard Voltage:DC3.8V

Rated Capacity:1450mAh,5.51Wh

Input Power:

Number of Channels:

Adapter: Model:N/A

Input: AC100-240V; 50/60Hz; 0.15A

Output: DC 5.0V,700mA

Port: Power Port, Earphone Port, USB Port

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

Trade Name : Bmobile

FCC ID: ZSW-30-021



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 8 of 30 |

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



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 9 of 30 |

6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

| Temperature | 25°C |
|----------------------|-------------------|
| Relative Humidity | 57% |
| Atmospheric Pressure | 1024mbar |
| Test date : | November 24, 2015 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement Applicable | | | |
|------------|--|---|---------|---------|--|
| 47CFR§15. | 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. | | | | |
| 107 | | Frequency ranges | Limit (| | |
| | | (MHz) | QP | Average | |
| | | 0.15 ~ 0.5 | 66 – 56 | 56 – 46 | |
| | | 0.5 ~ 5 | 56 | 46 | |
| | | 5 ~ 30 | 60 | 50 | |
| Test Setup | Vertical Ground Reference Plane EUT 80cm Horizontal Ground | | | | |
| | | cond LISN. EUT and at least 80cm nes support units. | | | |
| Procedure | 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 50Ω /50mH EUT LISN, connected to filtered mains. | | | | |



| Test Report | 15050054-FCC-E | |
|-------------|----------------|--|
| Page | 10 of 30 | |

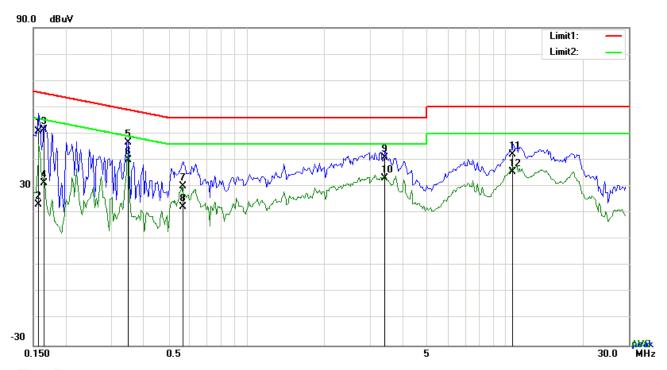
| | The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. All other supporting equipment were powered separately from another main supply. The EUT was switched on and allowed to warm up to its normal operating condition. A scan was made on the NEUTRAL line (for 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 | Pass Fail |
| | |

| Test Data | Yes | □ _{N/A} |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ _{N/A} |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 11 of 30 |

Test Mode 1 : USB Mode



Test Data

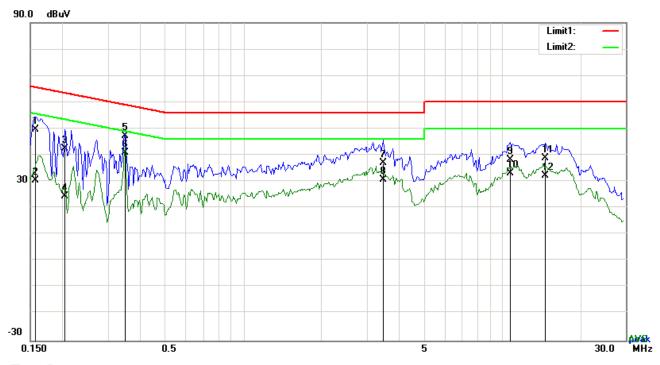
Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) |
| 1 | L1 | 0.1578 | 40.97 | QP | 10.03 | 51.00 | 65.58 | -14.58 |
| 2 | L1 | 0.1578 | 13.28 | AVG | 10.03 | 23.31 | 55.58 | -32.27 |
| 3 | L1 | 0.1656 | 41.37 | QP | 10.03 | 51.40 | 65.18 | -13.78 |
| 4 | L1 | 0.1656 | 21.43 | AVG | 10.03 | 31.46 | 55.18 | -23.72 |
| 5 | L1 | 0.3489 | 36.61 | QP | 10.03 | 46.64 | 58.99 | -12.35 |
| 6 | L1 | 0.3489 | 30.06 | AVG | 10.03 | 40.09 | 48.99 | -8.90 |
| 7 | L1 | 0.5673 | 20.26 | QP | 10.03 | 30.29 | 56.00 | -25.71 |
| 8 | L1 | 0.5673 | 12.41 | AVG | 10.03 | 22.44 | 46.00 | -23.56 |
| 9 | L1 | 3.4212 | 30.87 | QP | 10.06 | 40.93 | 56.00 | -15.07 |
| 10 | L1 | 3.4212 | 23.11 | AVG | 10.06 | 33.17 | 46.00 | -12.83 |
| 11 | L1 | 10.7298 | 31.95 | QP | 10.16 | 42.11 | 60.00 | -17.89 |
| 12 | L1 | 10.7298 | 25.38 | AVG | 10.16 | 35.54 | 50.00 | -14.46 |



| Test Report | 15050054-FCC-E | |
|-------------|----------------|--|
| Page | 12 of 30 | |

Test Mode: USB Mode



Test Data

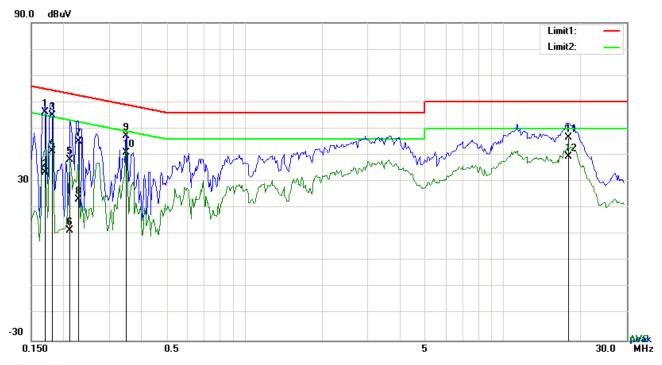
Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB) | (dBuV) | (dBuV) | (dB) |
| 1 | N | 0.1578 | 39.51 | QP | 10.02 | 49.53 | 65.58 | -16.05 |
| 2 | N | 0.1578 | 20.40 | AVG | 10.02 | 30.42 | 55.58 | -25.16 |
| 3 | N | 0.2046 | 32.56 | QP | 10.02 | 42.58 | 63.42 | -20.84 |
| 4 | N | 0.2046 | 14.47 | AVG | 10.02 | 24.49 | 53.42 | -28.93 |
| 5 | N | 0.3489 | 37.36 | QP | 10.02 | 47.38 | 58.99 | -11.61 |
| 6 | N | 0.3489 | 31.05 | AVG | 10.02 | 41.07 | 48.99 | -7.92 |
| 7 | N | 3.4641 | 26.86 | QP | 10.05 | 36.91 | 56.00 | -19.09 |
| 8 | N | 3.4641 | 20.72 | AVG | 10.05 | 30.77 | 46.00 | -15.23 |
| 9 | N | 10.7844 | 28.22 | QP | 10.15 | 38.37 | 60.00 | -21.63 |
| 10 | N | 10.7844 | 23.11 | AVG | 10.15 | 33.26 | 50.00 | -16.74 |
| 11 | N | 14.7390 | 28.65 | QP | 10.20 | 38.85 | 60.00 | -21.15 |
| 12 | N | 14.7390 | 22.17 | AVG | 10.20 | 32.37 | 50.00 | -17.63 |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 13 of 30 |

Test Mode : USB Mode



Test Data

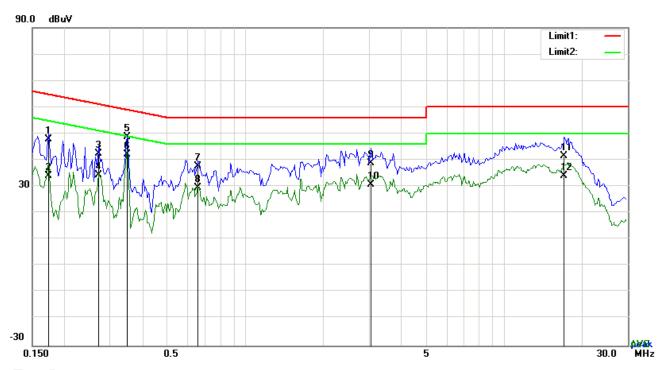
Phase Line Plot at 240Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) |
| 1 | L1 | 0.1695 | 46.13 | QP | 10.03 | 56.16 | 64.98 | -8.82 |
| 2 | L1 | 0.1695 | 23.32 | AVG | 10.03 | 33.35 | 54.98 | -21.63 |
| 3 | L1 | 0.1812 | 45.12 | QP | 10.03 | 55.15 | 64.43 | -9.28 |
| 4 | L1 | 0.1812 | 31.54 | AVG | 10.03 | 41.57 | 54.43 | -12.86 |
| 5 | L1 | 0.2124 | 28.29 | QP | 10.03 | 38.32 | 63.11 | -24.79 |
| 6 | L1 | 0.2124 | 1.60 | AVG | 10.03 | 11.63 | 53.11 | -41.48 |
| 7 | L1 | 0.2280 | 35.19 | QP | 10.03 | 45.22 | 62.52 | -17.30 |
| 8 | L1 | 0.2280 | 13.18 | AVG | 10.03 | 23.21 | 52.52 | -29.31 |
| 9 | L1 | 0.3489 | 37.29 | QP | 10.03 | 47.32 | 58.99 | -11.67 |
| 10 | L1 | 0.3489 | 30.78 | AVG | 10.03 | 40.81 | 48.99 | -8.18 |
| 11 | L1 | 17.9370 | 36.47 | QP | 10.27 | 46.74 | 60.00 | -13.26 |
| 12 | L1 | 17.9370 | 29.31 | AVG | 10.27 | 39.58 | 50.00 | -10.42 |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 14 of 30 |

Test Mode : USB Mode



Test Data

Phase Neutral Plot at 240Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB) | (dBuV) | (dBuV) | (dB) |
| 1 | N | 0.1734 | 37.81 | QP | 10.02 | 47.83 | 64.80 | -16.97 |
| 2 | N | 0.1734 | 23.94 | AVG | 10.02 | 33.96 | 54.80 | -20.84 |
| 3 | N | 0.2709 | 32.39 | QP | 10.02 | 42.41 | 61.09 | -18.68 |
| 4 | N | 0.2709 | 24.33 | AVG | 10.02 | 34.35 | 51.09 | -16.74 |
| 5 | N | 0.3489 | 38.70 | QP | 10.02 | 48.72 | 58.99 | -10.27 |
| 6 | N | 0.3489 | 32.06 | AVG | 10.02 | 42.08 | 48.99 | -6.91 |
| 7 | N | 0.6570 | 27.56 | QP | 10.02 | 37.58 | 56.00 | -18.42 |
| 8 | N | 0.6570 | 19.39 | AVG | 10.02 | 29.41 | 46.00 | -16.59 |
| 9 | N | 3.0546 | 28.91 | QP | 10.05 | 38.96 | 56.00 | -17.04 |
| 10 | N | 3.0546 | 20.64 | AVG | 10.05 | 30.69 | 46.00 | -15.31 |
| 11 | N | 17.0595 | 31.45 | QP | 10.22 | 41.67 | 60.00 | -18.33 |
| 12 | N | 17.0595 | 23.71 | AVG | 10.22 | 33.93 | 50.00 | -16.07 |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 15 of 30 |

6.2 Radiated Emissions

| Temperature | 22°C | |
|----------------------|-------------------|--|
| Relative Humidity | 58% | |
| Atmospheric Pressure | 1025mbar | |
| Test date : | November 25, 2015 | |
| Tested By : | Winnie Zhang | |

Requirement(s):

| Spec | Item | Item Requirement Applicable | | | | | |
|---------------------|--|--|--|--|--|--|--|
| 47CFR§15. 109(d) | a) | Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spe the level of any unwanted emission the fundamental emission. The tight edges Frequency range (MHz) 30 - 88 88 - 216 216 960 Above 960 | | | | | |
| Test Setup | | | | | | | |
| Procedure | 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: Vertical or horizontal polarization (whichever gave the higher emission level | | | | | | |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 16 of 30 |

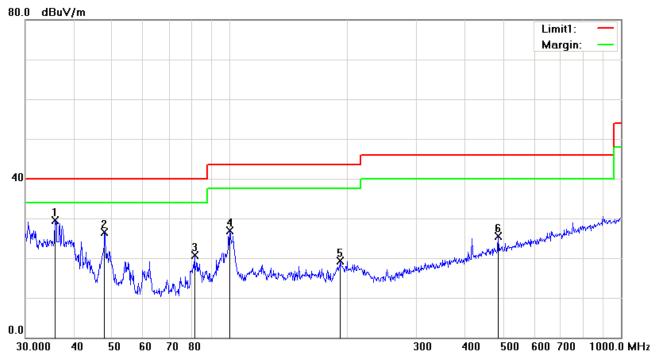
| | | | over a full rotation of the EUT) was chosen. |
|-----------|--------|----------|--|
| | | b. | The EUT was then rotated to the direction that gave the maximum |
| | | | emission. |
| | | C. | Finally, the antenna height was adjusted to the height that gave the maximum |
| | | | emission. |
| | 3. | The res | solution bandwidth and video bandwidth of test receiver/spectrum analyzer is |
| | | 120 kH | z for Quasiy Peak detection at frequency below 1GHz. |
| | 4. | The reso | olution bandwidth of test receiver/spectrum analyzer is 1MHz and video |
| | | bandwi | dth is 3MHz with Peak detection for Peak measurement at frequency above |
| | | 1GHz. | |
| | | The re | solution bandwidth of test receiver/spectrum analyzer is 1MHz and the video |
| | | bandw | vidth with Peak detection for Average Measurement as below at frequency |
| | | above | 1GHz. |
| | | ■ 1 kH | Hz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%) |
| | 5. | Steps 2 | 2 and 3 were repeated for the next frequency point, until all selected frequency |
| | | points v | were measured. |
| Remark | | | |
| Result | Pa | SS | Fail |
| | | | |
| Test Data | Yes | | □ _{N/A} |
| | 1 | | |
| Test Plot | Yes (S | ee belo | w) N/A |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 17 of 30 |

| Test Mode 1: | USB Mode |
|--------------|----------|
|--------------|----------|

Below 1GHz



Test Data

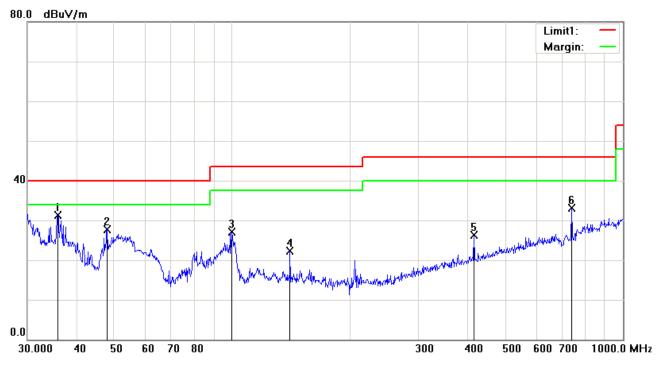
Horizontal Polarity Plot @3m

| No. | P/L | Frequency | Readin g | Detector | Corrected | Result | Limit | Margin | Height | Degree |
|-----|-----|-----------|--------------|----------|-----------|--------------|----------|--------|--------|--------|
| | | (MHz) | (dBuV/ m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () |
| 1 | Н | 35.7491 | 33.93 | peak | -4.49 | 29.44 | 40.00 | -10.56 | 100 | 323 |
| 2 | Н | 47.8260 | 38.63 | peak | -12.20 | 26.43 | 40.00 | -13.57 | 100 | 297 |
| 3 | Н | 81.2117 | 34.33 | peak | -13.71 | 20.62 | 40.00 | -19.38 | 100 | 79 |
| 4 | Н | 99.8777 | 37.78 | peak | -10.83 | 26.95 | 43.50 | -16.55 | 100 | 349 |
| 5 | Н | 191.7450 | 28.46 | peak | -9.14 | 19.32 | 43.50 | -24.18 | 100 | 49 |
| 6 | Н | 485.6093 | 27.65 | peak | -2.09 | 25.56 | 46.00 | -20.44 | 100 | 23 |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 18 of 30 |

Below 1GHz



Test Data

Vertical Polarity Plot @3m

| No. | P/L | Frequency | Readin g | Detector | Corrected | Result | Limit | Margin | Height | Degree |
|-----|-----|-----------|--------------|----------|-----------|--------------|----------|--------|--------|--------|
| | | (MHz) | (dBuV/ m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () |
| 1 | ٧ | 35.8747 | 35.92 | peak | -4.58 | 31.34 | 40.00 | -8.66 | 100 | 64 |
| 2 | V | 47.9940 | 39.98 | peak | -12.28 | 27.70 | 40.00 | -12.30 | 100 | 188 |
| 3 | ٧ | 99.8777 | 38.02 | peak | -10.83 | 27.19 | 43.50 | -16.31 | 100 | 214 |
| 4 | ٧ | 140.8351 | 30.77 | peak | -8.52 | 22.25 | 43.50 | -21.25 | 100 | 14 |
| 5 | V | 416.1791 | 30.20 | peak | -3.91 | 26.29 | 46.00 | -19.71 | 100 | 161 |
| 6 | V | 739.6605 | 30.92 | peak | 2.20 | 33.12 | 46.00 | -12.88 | 100 | 14 |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 19 of 30 |

Above 1GHz

| Frequency (MHz) | Amplitude (dΒμV/m) | Azimuth | Height (cm) | Polarity (H/V) | Factors (dB) | Limit (dBµV/m) | Margin (dB) | Detector (PK/AV) |
|--------------------|-----------------------|---------|----------------|-------------------|-----------------|-------------------|----------------|---------------------|
| 1565.77 | 53.55 | 48 | 167 | V | -22.26 | 74 | -20.45 | PK |
| 2045.19 | 58.12 | 134 | 164 | V | -21.13 | 74 | -15.88 | PK |
| 1611.4 | 54.23 | 64 | 145 | V | -23.32 | 74 | -20.77 | PK |
| 2155.42 | 52.14 | 38 | 249 | Н | -21.15 | 74 | -22.86 | PK |
| 2850.11 | 51.99 | 123 | 200 | Н | -21.23 | 74 | -23.01 | PK |
| 1809.51 | 52.24 | 45 | 165 | Н | -20.77 | 74 | -22.76 | PK |

Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5*2480 MHz=12,400 MHz.

Note 2: The frequency that above 3GHz is mainly from the environment noise.

Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 20 of 30 |

Annex A. TEST INSTRUMENT

| Instrument | Model | Serial# | Cal Date | Cal Due | In use | | |
|---|----------|------------|------------|------------|-------------|--|--|
| AC Line Conducted Emissions | | | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 09/17/2015 | 09/16/2016 | > | | |
| Line Impedance Stabilization Network | LI-125A | 191106 | 09/25/2015 | 09/24/2016 | > | | |
| Line Impedance Stabilization Network | LI-125A | 191107 | 09/25/2015 | 09/24/2016 | (| | |
| LISN | ISN T800 | 34373 | 09/25/2015 | 09/24/2016 | < | | |
| Transient Limiter | LIT-153 | 531118 | 09/01/2015 | 08/31/2016 | < | | |
| Radiated Emissions | | | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/17/2015 | 09/16/2016 | ~ | | |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 09/01/2015 | 08/31/2016 | > | | |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/25/2015 | 03/24/2016 | > | | |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/21/2015 | 09/20/2016 | \ | | |
| Double Ridge Horn Antenna | AH-118 | 71259 | 09/24/2015 | 09/23/2016 | \ | | |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 21 of 30 |

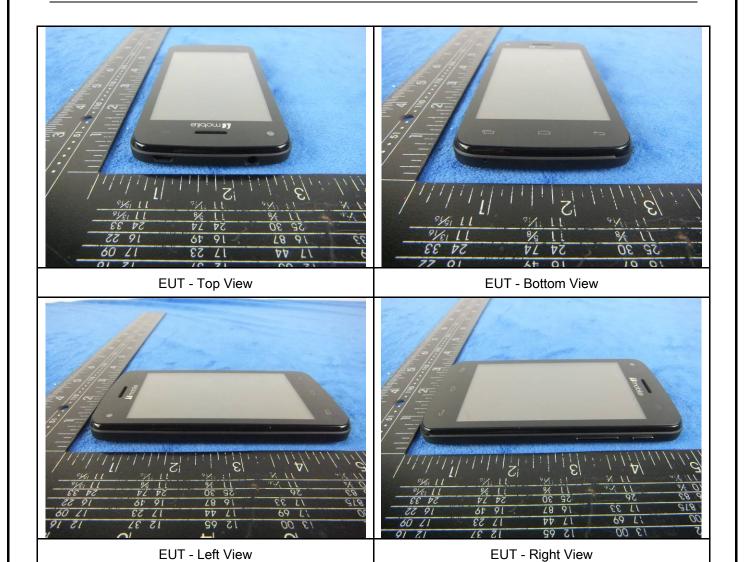
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 22 of 30 |





| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 23 of 30 |

Annex B.ii. Photograph: EUT Internal Photo



West No. 1234-967-990-12746

AMEN TO 10 7. 2534-90-02746

ACC 10 7. 253

Cover Off - Top View 1

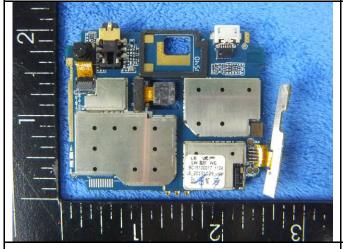
Cover Off - Top View 2





Battery - Front View

Battery - Rear View



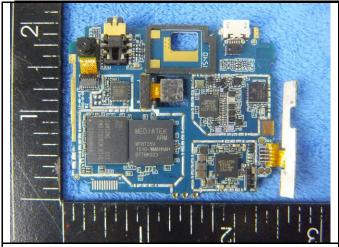
Mainbard with Shielding - Front View



Mainbard with Shielding - Rear View



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 24 of 30 |



3

Mainboard without shielding - Front View

Mainbard without Shielding - Rear View





LCD - Front View

LCD - Rear View





GSM/PCS/UMTS-FDD/LTE - Antenna View

WIFI/BT/BLE/GPS - Antenna View



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 25 of 30 |

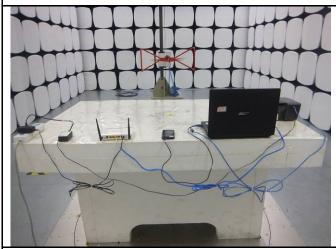
Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

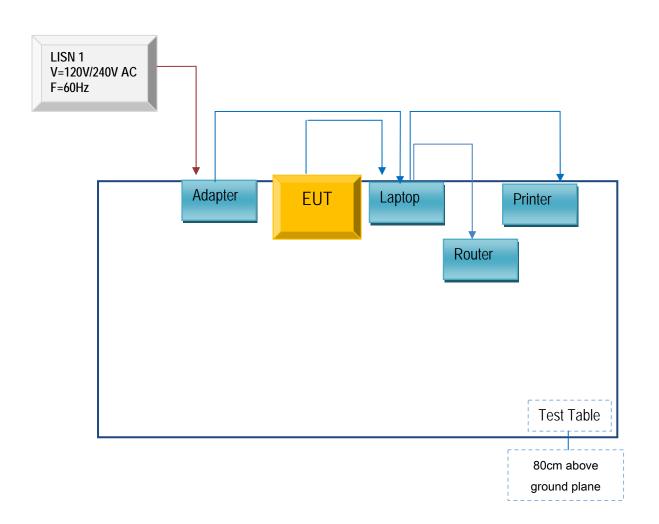


| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 26 of 30 |

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

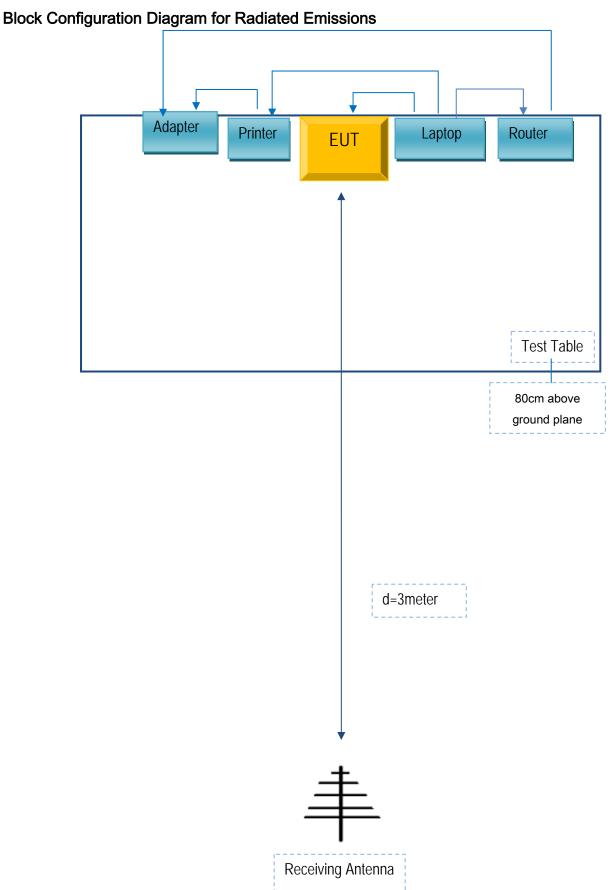
Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions





| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 27 of 30 |





| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 28 of 30 |

Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

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

Supporting Euquipment:

| Manufacturer | Equipment Description | Model | Serial No |
|---------------------|-----------------------|--------------|---------------|
| Lenovo | Lenovo Laptop | E40& 0579A52 | LR-1EHRX |
| GOLDWEB | Router | R102 | 1202032094 |
| HP | Printer | VCVRA-1003 | CN36M19JWX |
| DELL | Mouse | E100 | 912NMTUT41481 |
| b mobile HK Limited | Adapter | N/A | CX12503647 |

Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|---------------------|--------------|--------------|--------|------------|
| USB Cable | Un-shielding | No | 2m | N/A |
| RJ45 Cable | Un-shielding | No | 2m | N/A |
| Router Power cable | Un-shielding | No | 2m | N/A |
| Printer Power cable | Un-shielding | No | 2m | N/A |
| USB Cable | Un-shielding | No | 0.8m | KH13054266 |



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 29 of 30 |

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

Please see Attachment



| Test Report | 15050054-FCC-E |
|-------------|----------------|
| Page | 30 of 30 |

Annex E. DECLARATION OF SIMILARITY

b Mobile HK Limited

To SIEMIC Inc 775 Montague Expressway Milpitas, CA 95035.

Statement

We, <u>b Mobile HK limited</u> apply a multiple-listing certification for the below models.

Product Name: Mobile phone

Model number: AX1010/AX1005

FCC ID: ZSW-30-021

We hereby state that these models are identical in interior structure, electrical circuits and components, and just model name is different for the marketing requirement.

Your assistance on this matter is highly appreciated.

Sincerely,

For and on behalf of b (mobile) HK Limited

Authorized Signature(s)

Name: KA SHING LAM

Title: Director

Signature: