RF TEST REPORT



Report No.: 17070263-FCC-R3

| Supersede Report No.: N/A | | | | | |
|---|---|-----------------------------|-----|--|--|
| Applicant | Verykool USA Inc | | | | |
| Product Name | Mobile Pho | Mobile Phone | | | |
| Model No. | s5528 | | | | |
| Serial No. | N/A | | | | |
| Test Standard | FCC Part 1 | 5.247: 2016, ANSI C63.10: 2 | 013 | | |
| Test Date | April 07 to A | April 07 to April 21, 2017 | | | |
| Issue Date | April 22, 2017 | | | | |
| Test Result | Pass Fail | | | | |
| Equipment complied with the specification | | | | | |
| Equipment did not comply with the specification | | | | | |
| LOVER LUO David Huang | | | | | |
| Loren Luo 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



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Laboratories Introduction

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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.

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

Accreditations for Conformity Assessment



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1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|-----------------|----------------|-------------|----------------|
| 17070263-FCC-R3 | NONE | Original | April 22, 2017 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | Verykool USA Inc | |
|------------------|--|--|
| Applicant Add | 3636 Nobel Drive, Suite 325, San Diego, California 92122 United States | |
| Manufacturer | FortuneShip International Industrial Ltd | |
| Manufacturer Add | 6/F, Kanghesheng Building, No.1 Chuangsheng Road, Nanshan District, | |
| | Shenzhen, Guangdong, China | |

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 of | Dedicted Environment To Changhan v2.0 | | |
| Radiated Emission | Radiated Emission Program-To Shenzhen v2.0 | | |
| Test Software of | | | |
| Conducted Emission | EZ-EMC(ver.lcp-03A1) | | |



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4. Equipment under Test (EUT) Information

| Description of EUT: | Mobile Phone | | |
|-------------------------------|--|--|--|
| Main Model: | s5528 | | |
| Serial Model: | N/A | | |
| Date EUT received: | April 06, 2017 | | |
| Test Date(s): | April 07 to April 21, 2017 | | |
| Equipment Category : | DTS | | |
| | GSM850: 0.5dBi | | |
| | PCS1900:1.3dBi | | |
| | UMTS-FDD Band V: 0.5dBi | | |
| Antenna Gain: | UMTS-FDD Band IV: 0.5dBi | | |
| | UMTS-FDD Band II: 0.5dBi | | |
| | WIFI: -0.3dBi | | |
| | Bluetooth/BLE:0.5dBi | | |
| | GPS: 0.2dBi | | |
| Antenna Type: | PIFA antenna | | |
| | GSM / GPRS: GMSK | | |
| | EGPRS: GMSK,8PSK | | |
| | UMTS-FDD: QPSK | | |
| Type of Modulation: | 802.11b/g/n: DSSS, OFDM | | |
| | Bluetooth: GFSK, π /4DQPSK, 8DPSK | | |
| | BLE: GFSK | | |
| | 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 | | |
| | UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz | | |
| RF Operating Frequency (ies): | UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz; | | |
| | RX : 2112.4 ~ 2152.6 MHz | | |
| | UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz; | | |
| | RX: 1932.4 ~ 1987.6 MHz | | |



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|--------------------------------|---------------------------------------|-----------------------------|------------------|--|--|
| | WIFI: 802.11b/g/n(20M): 2412-2462 MHz | | | | |
| | WIFI: 80 | 802.11n(40M): 2422-2452 MHz | | | |
| | Bluetooth& BLE: 2402-2480 MHz | | | | |
| | GPS: 15 | 75.42 MHz | | | |
| Max. Output Power: | -5.292dE | 3m | | | |
| | GSM 850: 124CH | | | | |
| | PCS1900: 299CH | | | | |
| | UMTS-F | DD Band V: 10 | 02CH | | |
| | UMTS-F | DD Band IV: 2 | 202CH | | |
| Number of Chenneley | UMTS-F | DD Band II: 27 | 77CH | | |
| Number of Channels: | WIFI :80 | 2.11b/g/n(20M | <i>I</i>): 11CH | | |
| | WIFI :80 | 2.11n(40M): 70 | 'CH | | |
| | Bluetoot | h: 79CH | | | |
| | BLE: 40 | СН | | | |
| | GPS:1C | н | | | |
| Port: | USB Po | rt, Earphone Po | Port | | |
| Trade Name : | verykool | | | | |
| | Adapter: | | | | |
| | | PA-46D05010 | 00UU | | |
| | Input: AC100-240V~50/60Hz,0.2A | | | | |
| | Output: DC 5.0V,1.0A | | | | |
| Input Power: | Battery: | | | | |
| | Model: RS628 | | | | |
| | Spec : 3.8V,3000mAh,11.4Wh | | | | |
| | voltage: | 4.35V | | | |
| GPRS/EGPRS Multi-slot class | 8/10/12 | | | | |
| FCC ID: | WA6S55 | 528 | | | |
| | | | | | |



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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 Restricted | Compliance | |
| | Frequency Bands | | |
| §15.207 (a), | AC Power Line Conducted Emissions | Compliance | |
| §15.205, §15.209, | Radiated Emissions & Unwanted Emissions | | |
| §15.247(d) | into Restricted Frequency Bands | Compliance | |

Measurement Uncertainty

| Emissions | | | |
|---|---|---------------|--|
| Test Item | Description | Uncertainty | |
| Band Edge& Restricted Band and Radiated Emissions& Restricted Band | 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 | |
| - | - | - | |



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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 2 antennas:

A permanently attached PIFA antenna for GSM/PCS/UMTS-FDD Band V/UMTS-FDD Band IV /UMTS-FDD Band II, the gain is 0.5dBi for GSM/UMTS-FDD Band V//UMTS-FDD Band IV /UMTS-FDD Band II, the gain is 1.3dBi for PCS.

A permanently attached PIFA antenna for Bluetooth/WIFI/BLE/GPS, the gain is 0.5dBi for Bluetooth/BLE, the gain is -0.3dBi for WIFI, the gain is 0.2dBi for GPS.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

| Temperature | 24 °C |
|----------------------|----------------|
| Relative Humidity | 52% |
| Atmospheric Pressure | 1019mbar |
| Test date : | April 19, 2017 |
| Tested By : | Loren Luo |

| Spec | Item | Requirement | Applicable | |
|---------------------------|---|---|------------|--|
| § 15.247(a)(2) | a) 6dB BW≥ 500kHz; | | • | |
| RSS Gen(4.6.1) | b) | 99% BW: For FCC reference only; required by IC. | • | |
| Test Setup | | Spectrum Analyzer EUT | | |
| | 55807 | 4 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth | | |
| | 6dB E | mission bandwidth measurement procedure | | |
| | - | Set RBW = 100 kHz. | | |
| | - | Set the video bandwidth (VBW) \geq 3 RBW. | | |
| | - | Detector = Peak. | | |
| Test Procedure | - Trace mode = max hold. | | | |
| | - Sweep = auto couple. | | | |
| | - | Allow the trace to stabilize. | | |
| | | leasure the maximum width of the emission that is constraine | - | |
| | | requencies associated with the two outermost amplitude point | | |
| | | ower frequencies) that are attenuated by 6 dB relative to the m | naximum | |
| | level measured in the fundamental emission. | | | |
| Remark | | | | |
| Result | Pa | ss Fail | | |
| | | | | |
| Test Data | i | N/A | | |
| Test Plot Yes (See below) | | | | |



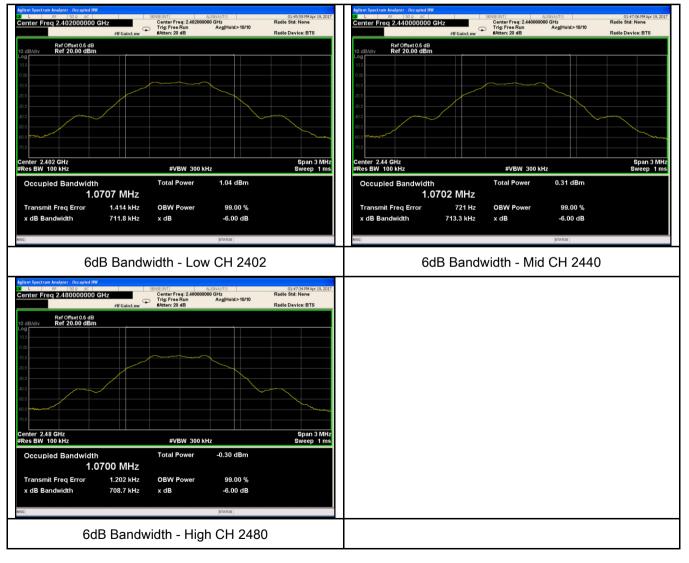
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6dB Bandwidth measurement result

Test Data

| СН | Frequency (MHz) | 6dB Bandwidth (kHz) | 99% Occupied Bandwidth (MHz) |
|------|-----------------|---------------------|---------------------------------|
| Low | 2402 | 711.8 | 1.0707 |
| Mid | 2440 | 713.3 | 1.0702 |
| High | 2480 | 708.7 | 1.0700 |

Test Plots





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6.3 Maximum Output Power

| Temperature | 24 °C |
|----------------------|----------------|
| Relative Humidity | 52% |
| Atmospheric Pressure | 1019mbar |
| Test date : | April 19, 2017 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Requirement | Applicable | |
|---|-----------------------|---|------------|--|
| | a) | FHSS in 2400-2483.5MHz with \geq 75 channels: \leq 1 Watt | | |
| | b) | FHSS in 5725-5850MHz: ≤ 1 Watt | | |
| §15.247(b) (3),RSS210 | c) | For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt. | | |
| (A8.4) | d) | FHSS in 902-928MHz with \geq 50 channels: \leq 1 Watt | | |
| (7.017) | e) | FHSS in 902-928MHz with $\geq 25 \& <50$ channels: ≤ 0.25 Watt | | |
| | f) | DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt | | |
| Test Setup | Spectrum Analyzer EUT | | | |
| 558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method Maximum output power measurement procedure a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW Procedure d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. | | | | |
| Remark | | | | |
| Result | Pas | s Fail | | |



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| Test Data | Yes | | |
|-----------|-------|--|--|
| Test Plot | Ves (| | |

| Test | Plot |
|------|------|
| | |

Yes (See below)

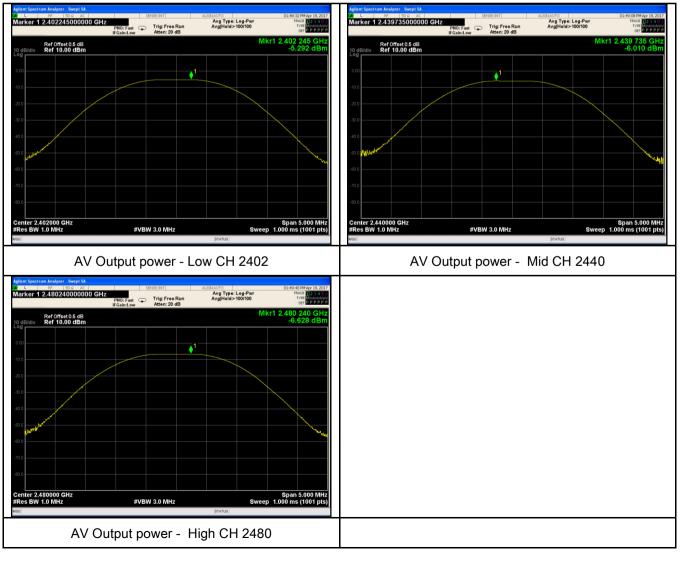
□ _{N/A} □ _{N/A}

Output Power measurement result

Test Data

| Туре | СН | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Result |
|--------|------|--------------------|--------------------------|----------------|--------|
| Output | Low | 2402 | -5.292 | 30 | Pass |
| Output | Mid | 2440 | -6.010 | 30 | Pass |
| power | High | 2480 | -6.628 | 30 | Pass |

Test Plots





6.4 Power Spectral Density

| Temperature | 24 °C | | |
|----------------------|----------------|--|--|
| Relative Humidity | 52% | | |
| Atmospheric Pressure | 1019mbar | | |
| Test date : | April 19, 2017 | | |
| Tested By : | Loren Luo | | |

| Spec | Item | Requirement | Applicable | | | | |
|--|---|---|-----------------|--|--|--|--|
| | | The power spectral density conducted from the | | | | | |
| | | intentional radiator to the antenna shall not be greater | _ | | | | |
| §15.247(e) | a) | than 8 dBm in any 3 kHz band during any time | | | | | |
| | | interval of continuous transmission. | | | | | |
| Test Setup | Spectrum Analyzer | | | | | | |
| | 558074 | D01 DTS MEAS Guidance v03r03, 10.2 power spectral density met | hod | | | | |
| | power s | pectral density measurement procedure | | | | | |
| | - a) Set analyzer center frequency to DTS channel center frequency. | | | | | | |
| | - b) Set the span to 1.5 times the DTS bandwidth. | | | | | | |
| | - | - c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. | | | | | |
| Test | - | - d) Set the VBW \geq 3 × RBW. | | | | | |
| | - | - e) Detector = peak. | | | | | |
| Procedure | - | f) Sweep time = auto couple. | | | | | |
| | - | g) Trace mode = max hold. | | | | | |
| | - | h) Allow trace to fully stabilize. | | | | | |
| | - | i) Use the peak marker function to determine the maximum amplitud | de level within | | | | |
| | | the RBW. | | | | | |
| | - | j) If measured value exceeds limit, reduce RBW (no less than 3 kHz | z) and repeat. | | | | |
| Remark | | | | | | | |
| Result | 🖾 Pas | ss Fail | | | | | |
| Test Data Yes N/A Test Plot Yes (See below) N/A | | | | | | | |



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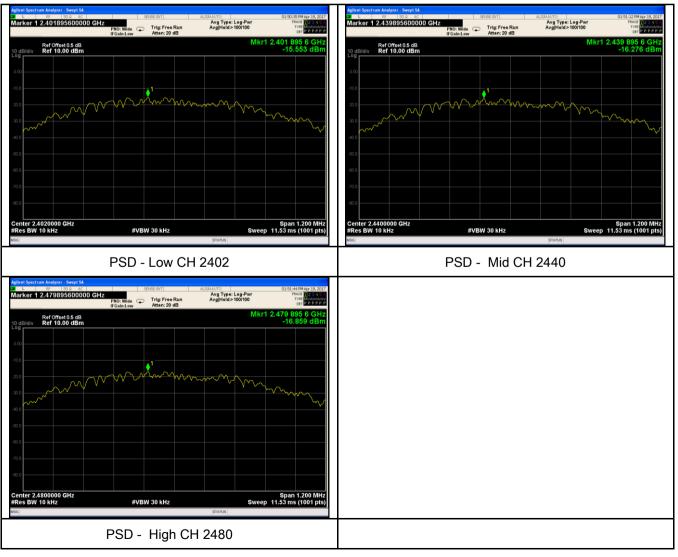
Power Spectral Density measurement result

Test Data

| Туре | СН | Freq (MHz) | Reading (dBm) | Factor (dB) | Result (dBm) | Limit (dBm) | Result |
|------|------|---------------|------------------|----------------|-----------------|----------------|--------|
| PSD | Low | 2402 | -15.553 | -5.23 | -20.783 | 8 | Pass |
| | Mid | 2440 | -16.276 | -5.23 | -21.506 | 8 | Pass |
| | High | 2480 | -16.859 | -5.23 | -22.089 | 8 | Pass |

Note: factor=10log(3/10)=-5.23

Test Plots





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

| Temperature | 23 °C |
|----------------------|----------------|
| Relative Humidity | 56% |
| Atmospheric Pressure | 1014mbar |
| Test date : | April 14, 2017 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Item Requirement | | | | | |
|-------------------|---|---|--|--|--|--|--|
| §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. | | | | | |
| Test Setup | | EUT& 3m FUT& 3m Units 0.8/1.5m Ground Plane Test Receiver | | | | | |
| Test Procedure | Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 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. | | | | | | |

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| | | | | | | | | | |
| | | | 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: | | | | | | | |
| | | | video bandwidth of test receiver/spectrum | | | | | | |
| | _ | | eak detection at frequency below 1GHz. | | | | | | |
| | | | st receiver/spectrum analyzer is 1MHz and video tection for Peak measurement at frequency above | | | | | | |
| | 1GHz. | IS SIVILIZ WILL FEAK UE | lection for reak measurement at nequency above | | | | | | |
| | _ | ulution bandwidth of te | st receiver/spectrum analyzer is 1MHz and the | | | | | | |
| | | | ak detection for Average Measurement as below | | | | | | |
| | | xy above 1GHz. | | | | | | | |
| | - | | e appearing on spectral display and set it as a | | | | | | |
| | | | ith marking the highest point and edge frequency. | | | | | | |
| | | | il all measured frequencies were complete. | | | | | | |
| Remark | | | | | | | | | |
| | | | | | | | | | |
| Result | Pass Pass | 🔛 Fail | | | | | | | |
| | /es | N/A | | | | | | | |
| Test Plot 🏼 🖺 Y | es (See below) | N/A | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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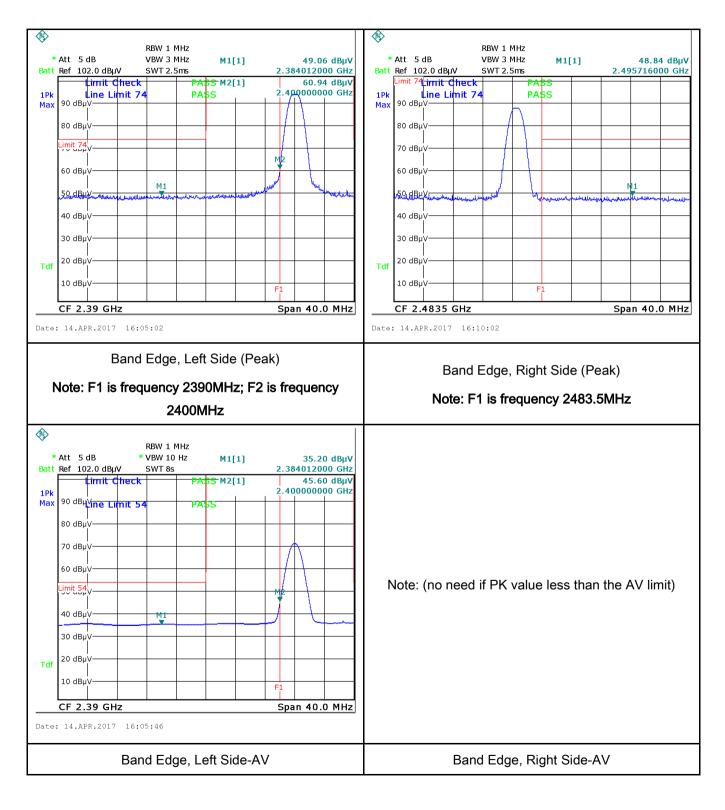


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Test Plots

Band Edge measurement result





6.6 AC Power Line Conducted Emissions

| Temperature | 24 °C | | |
|----------------------|----------------|--|--|
| Relative Humidity | 53% | | |
| Atmospheric Pressure | 1011mbar | | |
| Test date : | April 11, 2017 | | |
| Tested By : | Loren Luo | | |

Requirement(s):

| Spec | Item | Requirement | | Applicable | | | |
|---------------------------------------|------------------------|---|---|------------|--|--|--|
| 47CFR§15. 207, RSS210 (A8.1) | a) | For Low-power radio-fr connected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at th Frequency ranges (MHz) $0.15 \sim 0.5$ $0.5 \sim 5$ $5 \sim 30$ | Y | | | | |
| Test Setup | | 5~30 Vertical Ground Reference Plane UT 40 cm EUT 80 cm Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm | | | | | |
| Procedure | the 2. The filte | 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. | | | | | |

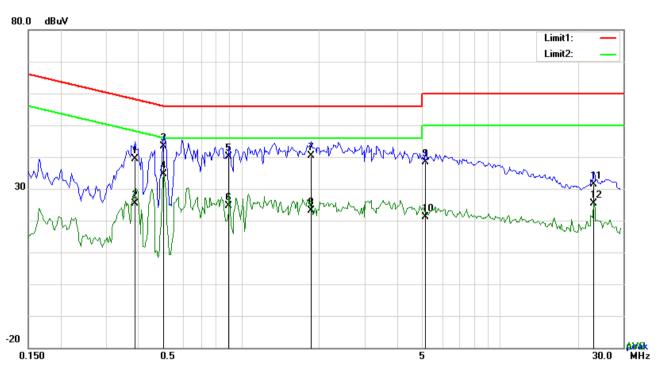
| Sir | MIC | Test Report No. | 17070263-FCC-R3 | | | | | |
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| | owered separately from another main supply. d to warm up to its normal operating condition. ne (for AC mains) or Earth line (for DC power) ng an EMI test receiver. ne EMI test receiver was then tuned to the ry measurements made with a receiver bandwidth | | | | | | | |
| | 8. Step 7 was then repe | eated for the LIVE | line (for AC mains) or DC line (for DC power). | | | | | |
| Remark | | | | | | | | |
| Result | Pass F | ail | | | | | | |
| Test Data Yes N/A Test Plot Yes (See below) N/A | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



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Test Mode: Transmitting Mode



Test Data

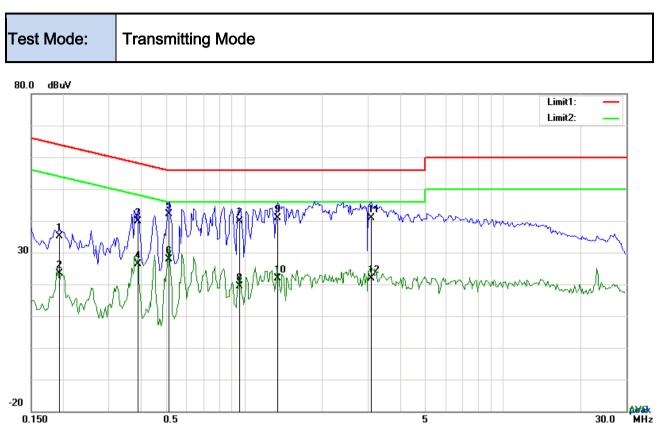
Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1 | L1 | 0.3879 | 29.41 | QP | 10.03 | 39.44 | 58.11 | -18.67 |
| 2 | L1 | 0.3879 | 15.26 | AVG | 10.03 | 25.29 | 48.11 | -22.82 |
| 3 | L1 | 0.5010 | 33.36 | QP | 10.03 | 43.39 | 56.00 | -12.61 |
| 4 | L1 | 0.5010 | 24.59 | AVG | 10.03 | 34.62 | 46.00 | -11.38 |
| 5 | L1 | 0.8988 | 30.03 | QP | 10.03 | 40.06 | 56.00 | -15.94 |
| 6 | L1 | 0.8988 | 14.68 | AVG | 10.03 | 24.71 | 46.00 | -21.29 |
| 7 | L1 | 1.8621 | 30.33 | QP | 10.04 | 40.37 | 56.00 | -15.63 |
| 8 | L1 | 1.8621 | 13.11 | AVG | 10.04 | 23.15 | 46.00 | -22.85 |
| 9 | L1 | 5.1567 | 28.18 | QP | 10.08 | 38.26 | 60.00 | -21.74 |
| 10 | L1 | 5.1567 | 10.99 | AVG | 10.08 | 21.07 | 50.00 | -28.93 |
| 11 | L1 | 23.1318 | 21.05 | QP | 10.36 | 31.41 | 60.00 | -28.59 |
| 12 | L1 | 23.1318 | 15.13 | AVG | 10.36 | 25.49 | 50.00 | -24.51 |



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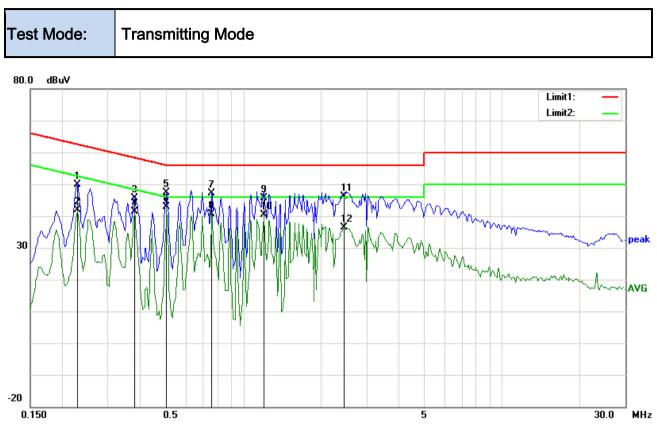
Test Data

Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1 | Ν | 0.1929 | 24.99 | QP | 10.02 | 35.01 | 63.91 | -28.90 |
| 2 | Ν | 0.1929 | 13.42 | AVG | 10.02 | 23.44 | 53.91 | -30.47 |
| 3 | Ν | 0.3879 | 29.89 | QP | 10.02 | 39.91 | 58.11 | -18.20 |
| 4 | Ν | 0.3879 | 16.41 | AVG | 10.02 | 26.43 | 48.11 | -21.68 |
| 5 | Ν | 0.5127 | 32.08 | QP | 10.02 | 42.10 | 56.00 | -13.90 |
| 6 | Ν | 0.5127 | 17.80 | AVG | 10.02 | 27.82 | 46.00 | -18.18 |
| 7 | Ν | 0.9612 | 29.94 | QP | 10.03 | 39.97 | 56.00 | -16.03 |
| 8 | Ν | 0.9612 | 9.38 | AVG | 10.03 | 19.41 | 46.00 | -26.59 |
| 9 | Ν | 1.3512 | 30.79 | QP | 10.03 | 40.82 | 56.00 | -15.18 |
| 10 | Ν | 1.3512 | 11.97 | AVG | 10.03 | 22.00 | 46.00 | -24.00 |
| 11 | Ν | 3.0936 | 30.85 | QP | 10.05 | 40.90 | 56.00 | -15.10 |
| 12 | Ν | 3.0936 | 11.72 | AVG | 10.05 | 21.77 | 46.00 | -24.23 |



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Test Data

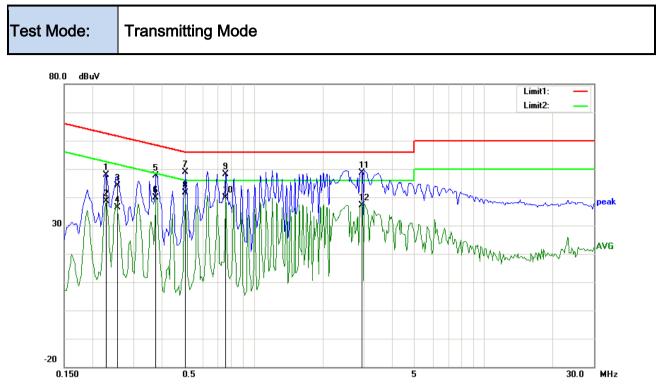
Phase Line Plot at 240Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1 | L1 | 0.2280 | 39.78 | QP | 10.03 | 49.81 | 62.52 | -12.71 |
| 2 | L1 | 0.2280 | 31.73 | AVG | 10.03 | 41.76 | 52.52 | -10.76 |
| 3 | L1 | 0.3801 | 35.49 | QP | 10.03 | 45.52 | 58.28 | -12.76 |
| 4 | L1 | 0.3801 | 31.35 | AVG | 10.03 | 41.38 | 48.28 | -6.90 |
| 5 | L1 | 0.5049 | 37.24 | QP | 10.03 | 47.27 | 56.00 | -8.73 |
| 6 | L1 | 0.5049 | 32.86 | AVG | 10.03 | 42.89 | 46.00 | -3.11 |
| 7 | L1 | 0.7545 | 37.14 | QP | 10.03 | 47.17 | 56.00 | -8.83 |
| 8 | L1 | 0.7545 | 30.72 | AVG | 10.03 | 40.75 | 46.00 | -5.25 |
| 9 | L1 | 1.1991 | 35.57 | QP | 10.03 | 45.60 | 56.00 | -10.40 |
| 10 | L1 | 1.1991 | 30.45 | AVG | 10.03 | 40.48 | 46.00 | -5.52 |
| 11 | L1 | 2.4549 | 35.96 | QP | 10.05 | 46.01 | 56.00 | -9.99 |
| 12 | L1 | 2.4549 | 26.40 | AVG | 10.05 | 36.45 | 46.00 | -9.55 |



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Test Data

Phase Neutral Plot at 240Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1 | Ν | 0.2280 | 37.79 | QP | 10.02 | 47.81 | 62.52 | -14.71 |
| 2 | Ν | 0.2280 | 28.58 | AVG | 10.02 | 38.60 | 52.52 | -13.92 |
| 3 | Ν | 0.2553 | 34.09 | QP | 10.02 | 44.11 | 61.58 | -17.47 |
| 4 | Ν | 0.2553 | 26.38 | AVG | 10.02 | 36.40 | 51.58 | -15.18 |
| 5 | Ν | 0.3762 | 37.49 | QP | 10.02 | 47.51 | 58.36 | -10.85 |
| 6 | Ν | 0.3762 | 29.94 | AVG | 10.02 | 39.96 | 48.36 | -8.40 |
| 7 | Ν | 0.5049 | 38.74 | QP | 10.02 | 48.76 | 56.00 | -7.24 |
| 8 | Ν | 0.5049 | 31.50 | AVG | 10.02 | 41.52 | 46.00 | -4.48 |
| 9 | Ν | 0.7545 | 38.01 | QP | 10.03 | 48.04 | 56.00 | -7.96 |
| 10 | Ν | 0.7545 | 29.77 | AVG | 10.03 | 39.80 | 46.00 | -6.20 |
| 11 | Ν | 2.9580 | 38.57 | QP | 10.05 | 48.62 | 56.00 | -7.38 |
| 12 | Ν | 2.9580 | 27.14 | AVG | 10.05 | 37.19 | 46.00 | -8.81 |



6.7 Radiated Emissions & Restricted Band

| Temperature | 23 °C |
|----------------------|----------------|
| Relative Humidity | 56% |
| Atmospheric Pressure | 1014mbar |
| Test date : | April 14, 2017 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Requirement | | Applicable | | |
|-----------------------------|------|---|--|------------|--|--|
| | a) | Except higher limit as specified els emissions from the low-power radi exceed the field strength levels sp the level of any unwanted emission the fundamental emission. The tigl edges | V | | | |
| | | Frequency range (MHz) | Field Strength (µV/m) | | | |
| | | 30 - 88 | 100 | | | |
| | | 88 - 216 | 150 | | | |
| 47CFR§15. | | 216 - 960 | 200 | | | |
| - | | Above 960 | | | | |
| 247(d), RSS210 (A8.5) | b) | For non-restricted band, In any 10 frequency band in which the sprea modulated intentional radiator is of power that is produced by the inter 20 dB or 30dB below that in the 10 band that contains the highest level determined by the measurement n used. Attenuation below the gener is not required 20 dB down 300 | d spectrum or digitally perating, the radio frequency ntional radiator shall be at least 0 kHz bandwidth within the el of the desired power, nethod on output power to be | V | | |
| | c) | or restricted band, emission must emission limits specified in 15.209 | ~ | | | |

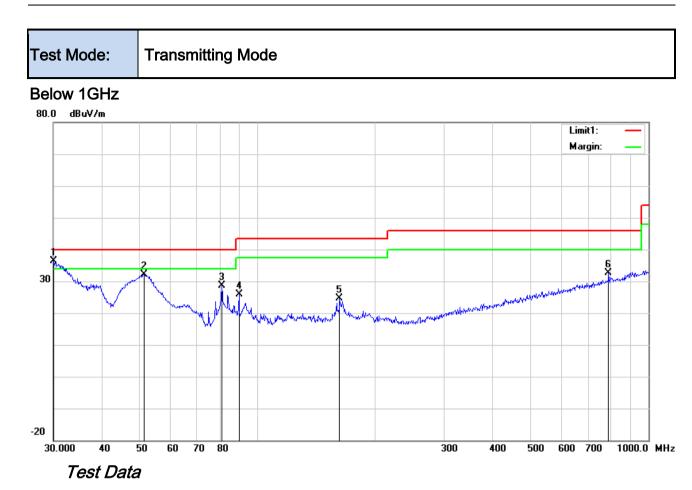


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| Test Setup | Ant. Tower Support Units Units Units Turn Table O.8/1.5m Ground Plane Test Receiver |
|------------------------|--|
| Procedure | The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried 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: a. Vertical or horizontal polarization (whichever gave the higher emission level 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. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. 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. The resolution bandwidth of test receiver/spectrum analyzer is 10Hz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured. |
| 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 | Pass Fail |
| Test Data Test Plot | Yes (See below) |



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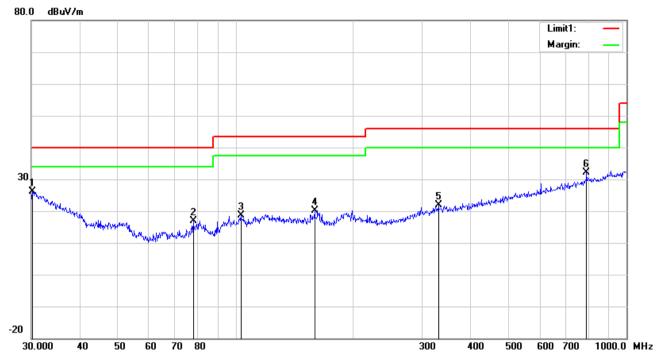
Vertical Polarity Plot @3m

| No. | P/L | Frequency | Reading | Detect | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degr |
|-----|-----|-----------|------------|--------|--------|-------|-------|------------|-----------|--------|--------|-----------|
| | | (MHz) | (dBuV/m) | or | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | ee (°) |
| | | (11112) | (abav/iii) | | (db/m) | (ub) | (db) | (abav/iii) | (abaviii) | | (on) | () |
| 1 | V | 30.1054 | 36.83 | QP | 21.32 | 22.28 | 0.62 | 36.49 | 40.00 | -3.51 | 100 | 313 |
| 2 | V | 51.1209 | 45.33 | peak | 8.28 | 22.38 | 0.80 | 32.03 | 40.00 | -7.97 | 100 | 139 |
| 3 | V | 80.9275 | 42.40 | peak | 7.64 | 22.41 | 1.05 | 28.68 | 40.00 | -11.32 | 100 | 358 |
| 4 | V | 89.5900 | 39.15 | peak | 7.98 | 22.32 | 0.96 | 25.77 | 43.50 | -17.73 | 100 | 328 |
| 5 | V | 162.0414 | 33.15 | peak | 12.44 | 22.27 | 1.38 | 24.70 | 43.50 | -18.80 | 100 | 353 |
| 6 | V | 790.6188 | 29.69 | peak | 21.29 | 21.17 | 2.94 | 32.75 | 46.00 | -13.25 | 100 | 182 |



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Below 1GHz



Test Data

Horizontal Polarity Plot @3m

| No. | P/L | Frequency | Reading | Detect | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degr |
|-----|-----|-----------|----------|--------|--------|-------|-------|----------|----------|--------|--------|------|
| | | | | or | | | | | | | | ee |
| | | (MHz) | (dBuV/m) | | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (°) |
| 1 | Н | 30.2111 | 26.47 | peak | 21.24 | 22.28 | 0.63 | 26.06 | 40.00 | -13.94 | 100 | 227 |
| 2 | н | 77.8654 | 30.56 | peak | 7.64 | 22.41 | 1.01 | 16.80 | 40.00 | -23.20 | 100 | 71 |
| 3 | Н | 103.0800 | 28.83 | peak | 10.94 | 22.33 | 1.14 | 18.58 | 43.50 | -24.92 | 100 | 112 |
| 4 | Н | 159.2251 | 28.49 | peak | 12.60 | 22.28 | 1.39 | 20.20 | 43.50 | -23.30 | 100 | 257 |
| 5 | Н | 330.1949 | 28.01 | peak | 14.23 | 22.21 | 1.94 | 21.97 | 46.00 | -24.03 | 100 | 98 |
| 6 | Н | 790.6188 | 29.17 | peak | 21.29 | 21.17 | 2.94 | 32.23 | 46.00 | -13.77 | 100 | 46 |



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Above 1GHz

Test Mode:

Transmitting Mode

| Frequency (MHz) | S.A. Reading (dBµV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre- Amp. Gain (dB) | Cord. Amp. (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|------------------------------|---------------------------|-------------------|----------------|
| 4804 | 38.93 | AV | V | 33.83 | 6.86 | 31.72 | 47.9 | 54 | -6.1 |
| 4804 | 38.41 | AV | Н | 33.83 | 6.86 | 31.72 | 47.38 | 54 | -6.62 |
| 4804 | 48.45 | PK | V | 33.83 | 6.86 | 31.72 | 57.42 | 74 | -16.58 |
| 4804 | 48.17 | PK | Н | 33.83 | 6.86 | 31.72 | 57.14 | 74 | -16.86 |
| 17794 | 24.42 | AV | V | 45.03 | 11.21 | 32.38 | 48.28 | 54 | -5.72 |
| 17794 | 23.72 | AV | Н | 45.03 | 11.21 | 32.38 | 47.58 | 54 | -6.42 |
| 17794 | 41.36 | PK | V | 45.03 | 11.21 | 32.38 | 65.22 | 74 | -8.78 |
| 17794 | 40.65 | PK | Н | 45.03 | 11.21 | 32.38 | 64.51 | 74 | -9.49 |

Low Channel (2402 MHz)

Middle Channel (2440 MHz)

| Frequency (MHz) | S.A. Reading (dBµV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre- Amp. Gain (dB) | Cord. Amp. (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|------------------------------|---------------------------|-------------------|----------------|
| 4880 | 39.01 | AV | V | 33.86 | 6.82 | 31.82 | 47.87 | 54 | -6.13 |
| 4880 | 37.93 | AV | н | 33.86 | 6.82 | 31.82 | 46.79 | 54 | -7.21 |
| 4880 | 47.79 | PK | V | 33.86 | 6.82 | 31.82 | 56.65 | 74 | -17.35 |
| 4880 | 47.3 | PK | н | 33.86 | 6.82 | 31.82 | 56.16 | 74 | -17.84 |
| 17804 | 23.57 | AV | V | 45.15 | 11.18 | 32.41 | 47.49 | 54 | -6.51 |
| 17804 | 24.03 | AV | Н | 45.15 | 11.18 | 32.41 | 47.95 | 54 | -6.05 |
| 17804 | 40.93 | PK | V | 45.15 | 11.18 | 32.41 | 64.85 | 74 | -9.15 |
| 17804 | 40.84 | PK | Н | 45.15 | 11.18 | 32.41 | 64.76 | 74 | -9.24 |



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| Frequency (MHz) | S.A. Reading (dBµV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre- Amp. Gain (dB) | Cord. Amp. (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|------------------------------|---------------------------|-------------------|----------------|
| 4960 | 38.36 | AV | V | 33.9 | 6.76 | 31.92 | 47.1 | 54 | -6.9 |
| 4960 | 38.72 | AV | Н | 33.9 | 6.76 | 31.92 | 47.46 | 54 | -6.54 |
| 4960 | 48.67 | PK | V | 33.9 | 6.76 | 31.92 | 57.41 | 74 | -16.59 |
| 4960 | 48.26 | PK | Н | 33.9 | 6.76 | 31.92 | 57 | 74 | -17 |
| 17792 | 24.88 | AV | V | 45.22 | 11.35 | 32.38 | 49.07 | 54 | -4.93 |
| 17792 | 24.8 | AV | Н | 45.22 | 11.35 | 32.38 | 48.99 | 54 | -5.01 |
| 17792 | 41.49 | PK | V | 45.22 | 11.35 | 32.38 | 65.68 | 74 | -8.32 |
| 17792 | 40.56 | PK | Н | 45.22 | 11.35 | 32.38 | 64.75 | 74 | -9.25 |

High Channel (2480 MHz)

Note:

1, The testing has been conformed to 10*2480MHz=24,800MHz 2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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Annex A. TEST INSTRUMENT

| Instrument | Model | Serial # | Cal Date | Cal Due | In use |
|---|----------|-------------|------------|------------|----------|
| AC Line Conducted | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 09/16/2016 | 09/15/2017 | > |
| Line Impedance | LI-125A | 191106 | 09/24/2016 | 09/23/2017 | |
| Line Impedance | LI-125A | 191107 | 09/24/2016 | 09/23/2017 | |
| LISN | ISN T800 | 34373 | 09/24/2016 | 09/23/2017 | |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/23/2016 | 09/22/2017 | V |
| Transient Limiter | LIT-153 | 531118 | 08/31/2016 | 08/30/2017 | |
| RF conducted test | | | | | |
| Agilent ESA-E SERIES | E4407B | MY45108319 | 09/16/2016 | 09/15/2017 | |
| Power Splitter | 1# | 1# | 08/31/2016 | 08/30/2017 | |
| DC Power Supply | E3640A | MY40004013 | 09/16/2016 | 09/15/2017 | |
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/16/2016 | 09/15/2017 | V |
| Positioning Controller | UC3000 | MF780208282 | 11/18/2016 | 11/17/2017 | V |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 08/31/2016 | 08/30/2017 | V |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/23/2017 | 03/22/2018 | |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/20/2016 | 09/19/2017 | |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/23/2016 | 09/22/2017 | V |
| Universal Radio Communication Tester | CMU200 | 121393 | 09/24/2016 | 09/23/2017 | V |



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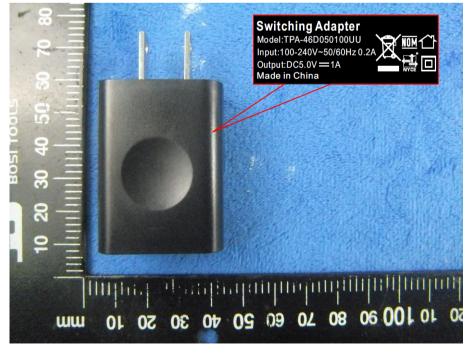
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Front View





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EUT - Front View



EUT - Rear View





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EUT - Top View



EUT - Bottom View





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EUT - Left View



EUT - Right View





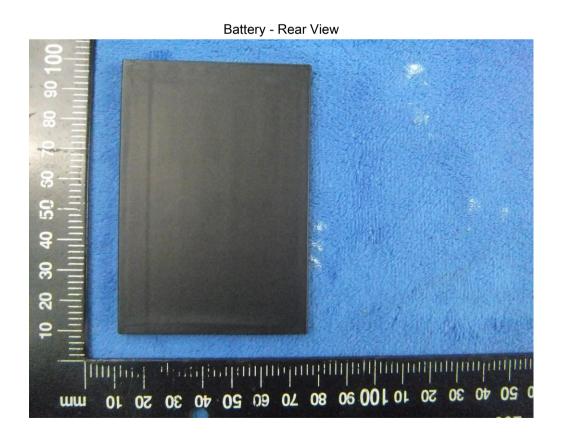
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Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 2







Battery - Front View

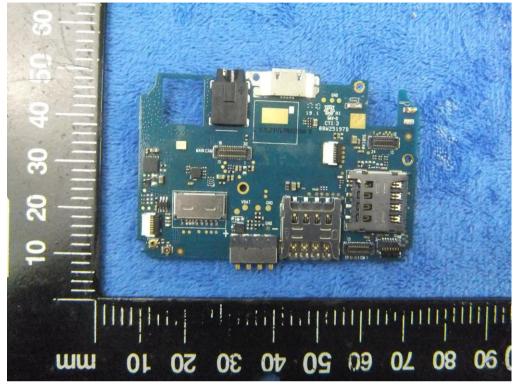


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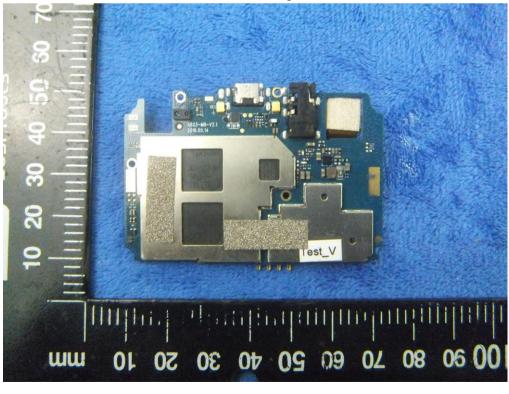


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Mainboard - Front View



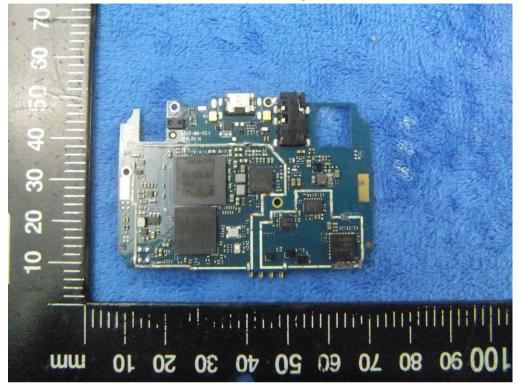
Mainboard with Shielding - Rear View



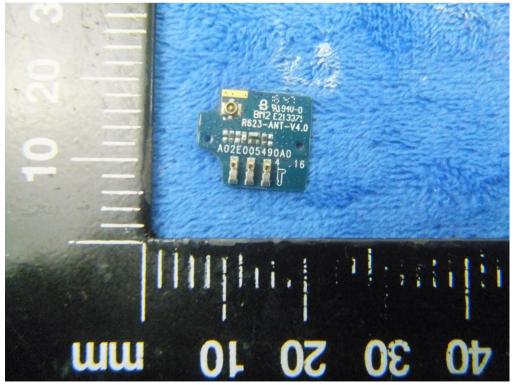


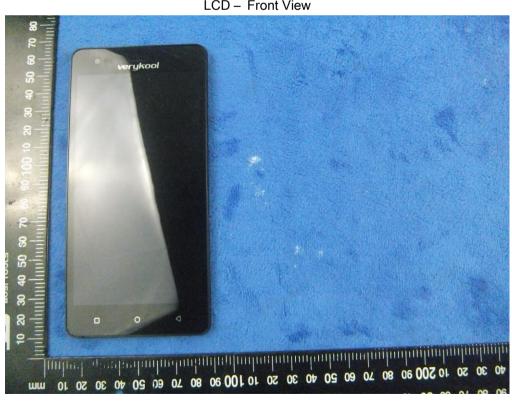
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Mainboard without Shielding - Rear View

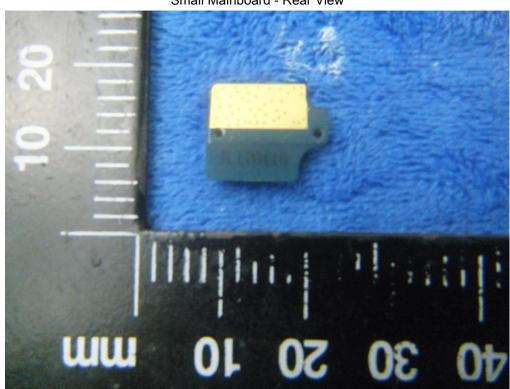


Small Mainboard - Front View





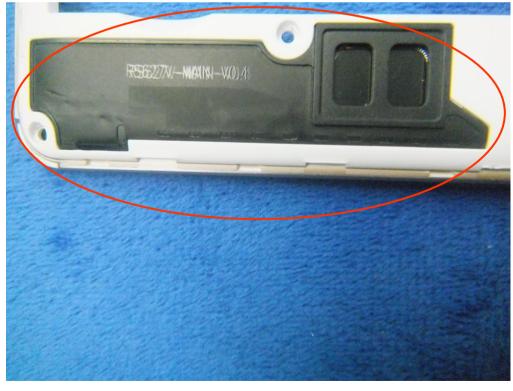
LCD - Front View



Small Mainboard - Rear View

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GSM/PCS/UMTS - Antenna View



LCD – Rear View



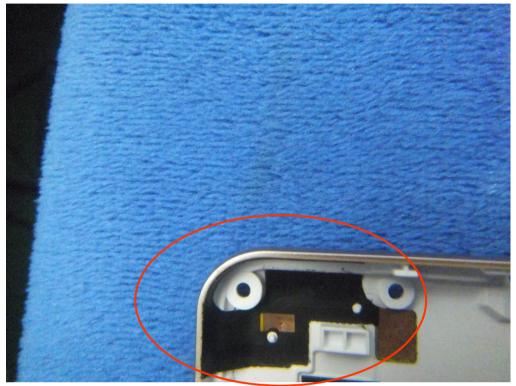
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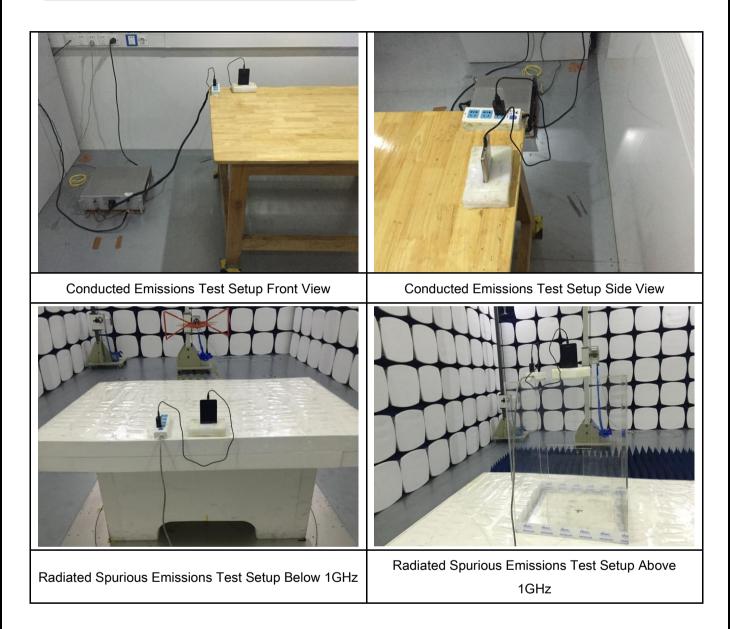
WIFI/BT/BLE/GPS - Antenna View





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Annex B.iii. Photograph: Test Setup Photo





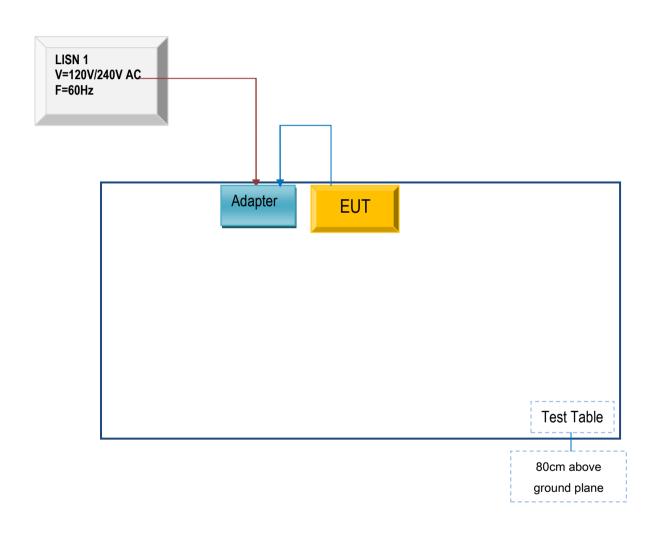
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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

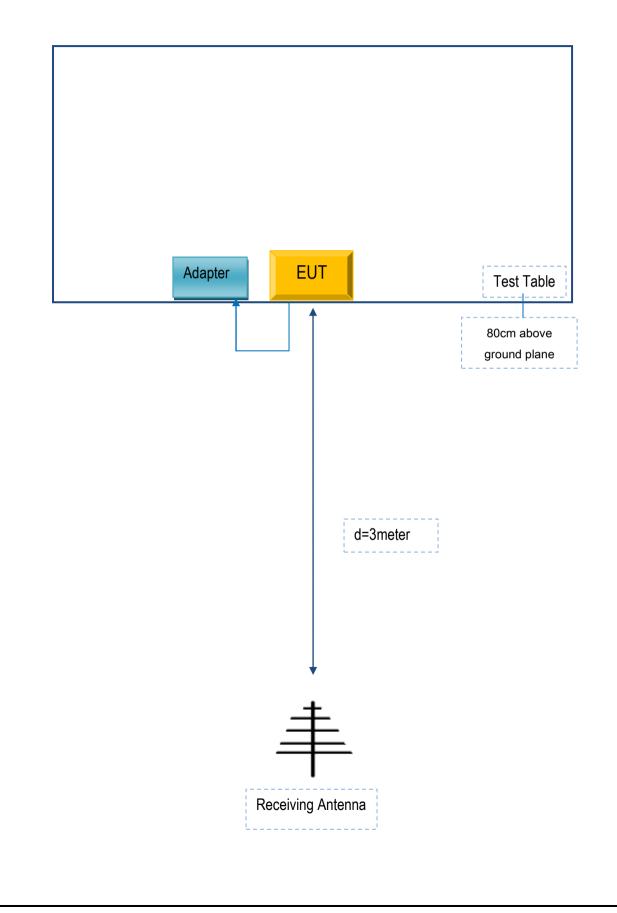
Block Configuration Diagram for AC Line Conducted Emissions





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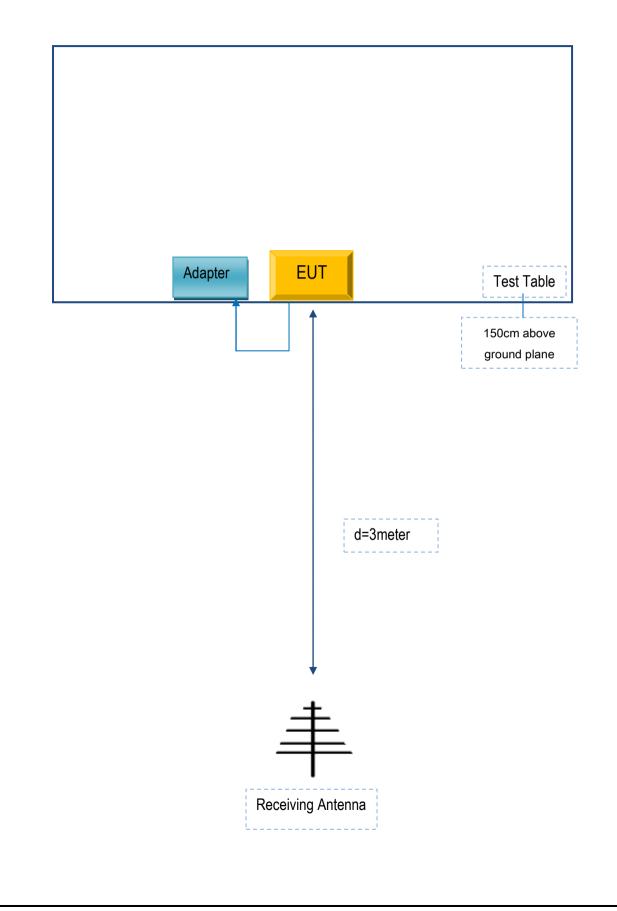
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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Block Configuration Diagram for Radiated Emissions (Above 1GHz).





Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

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

Supporting Equipment:

| Manufacturer Equipment Description | | Model | Serial No |
|------------------------------------|---------|-----------------|-----------|
| Verykool USA Inc | Adapter | TPA-46D050100UU | SA020 |

Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|------------|--------------|-----------------|--------|-----------|
| USB Cable | Un-shielding | No | 0.8m | SA020 |



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

Please see the attachment



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Annex E. DECLARATION OF SIMILARITY

N/A