RF TEST REPORT



Report No.: 15071014-FCC-R3
Supersede Report No.: N/A

| Applicant | Verykool USA Inc | | |
|--------------------------------|---|--|--|
| Product Name | Mobile Phone | | |
| Model No. | s4512 | | |
| Serial No. | N/A | | |
| Test Standard | FCC Part 15.247: 2014, ANSI C63.10: 2013 | | |
| Test Date | October 26 to December 03, 2015 | | |
| Issue Date | December 04, 2015 | | |
| Test Result | Pass Fail | | |
| Equipment compl | Equipment complied with the specification | | |
| Equipment did no | comply with the specification | | |
| Winnie Zheng David Huang | | | |
| Winnie Zh Test Engir | Charled By | | |

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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

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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 |
|-----------------|----------------|-------------|-------------------|
| 15071014-FCC-R3 | NONE | Original | December 04, 2015 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | Verykool USA Inc |
|------------------|---|
| Applicant Add | 3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA |
| Manufacturer | HUIZHOU QIAOXING ELECTRONICS TECHNOLOGY CO.,LTD |
| Manufacturer Add | Room 1906 of VIA Building, No.9966 Shennan Avenue, Yuehai Street in Nanshan District, |
| | Shenzhen |

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 | |



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: s4512

Serial Model: N/A

Date EUT received: October 25,2015

Test Date(s): October 26 to December 03, 2015

Equipment Category: DTS

Antenna Gain:

GSM850: 1.9dBi

PCS1900: 3.9dBi

UMTS-FDD Band II: 3.9 dBi

UMTS-FDD Band V: 1.9 dBi

OWITS-I DD Dand II. 3.9 dDi

Bluetooth: 3.1dBi WIFI: 2.9dBi GPS: 1.9dBi

GSM / GPRS: GMSK

EGPRS: GMSK

Type of Modulation: UMTS-FDD: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

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 \sim 846.6 MHz; RX: 871.4 \sim 891.6 MHz

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

RF Operating Frequency (ies):

RX: 1932.4 ~ 1987.6 MHz

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

Bluetooth: 2402-2480 MHz GPS RX:1575.42 MHz



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802.11b:5.54dBm

Max. Output Power: 802.11g:8.38dBm

802.11n(20M):8.91dBm

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH

Number of Channels: UMTS-FDD Band II: 277CH

WIFI:802.11b/g/n(20M): 11CH

Bluetooth: 79CH

GPS:1CH

Port: Power Port, Earphone Port, USB Port

Adapter:

Model:STC-A515A-Z

Input: AC 100-240V; 50/60Hz;300mA

Output: DC5.0V;1500mA

Input Power: Battery:

Model:Q450

Spec:DC3.8V,1800mAh,6.84Wh Limited charger voltage:4.35V

Trade Name: verykool

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

FCC ID: WA6S4512



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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&20 dB) CHANNEL BANDWIDTH | Compliance | | |
| §15.247(b)(3) | Conducted Maximum Output Power Compliance | | | |
| §15.247(e) | Power Spectral Density | Compliance | | |
| §15.247(d) | Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands | Compliance | | |
| §15.207 (a), | AC Power Line Conducted Emissions | Compliance | | |
| §15.205, §15.209, §15.247(d) | Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands | Compliance | | |

Measurement Uncertainty

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



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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 Bluetooth/ WIFI/GPS, the gain is 3.1dBi for Bluetooth, the gain is 2.9dBi for WIFI, the gain is 1.9dBi for GPS.

A permanently attached PIFA antenna for GSM and UMTS, the gain is 1.9dBi for GSM850, 3.9dBi for PCS1900, 1.9dBi for UMTS-FDD Band V, 3.9dBi for UMTS-FDD Band II.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB&20 dB) Channel Bandwidth

| Temperature | 25°C |
|----------------------|-------------------|
| Relative Humidity | 54% |
| Atmospheric Pressure | 1012mbar |
| Test date : | November 12, 2015 |
| Tested By : | Winnie Zhang |

| Spec | Item | Item Requirement Applicab | | | | |
|----------------|---|---|--|--|--|--|
| § 15.247(a)(2) | a) 6dB BW≥ 500kHz; 20dB BW≥ 500kHz; | | | | | |
| | b) | | | | | |
| Test Setup | Spectrum Analyzer EUT | | | | | |
| | 55807 | 4 D01 DTS MEAS Guidance v03r02, 8.1 DTS bandwidth | | | | |
| | 6dB b | <u>andwidth</u> | | | | |
| | a) Se | t RBW = 100 kHz. | | | | |
| | b) Se | t the video bandwidth (VBW) ≥ 3 × RBW. | | | | |
| | c) Detector = Peak. | | | | | |
| | d) Trace mode = max hold. | | | | | |
| | e) Sweep = auto couple. | | | | | |
| | f) Allow the trace to stabilize. | | | | | |
| | g) Measure the maximum width of the emission that is constrained by the freq | | | | | |
| Test Procedure | uencies associated with the two outermost amplitude points (upper and lower fr | | | | | |
| rest Flocedule | equencies) that are attenuated by 6 dB relative to the maximum level measure | | | | | |
| | d in th | d in the fundamental emission. | | | | |
| | 20dB bandwidth | | | | | |
| | C63.10 Occupied Bandwidth (OBW=20dB bandwidth) | | | | | |
| | 1. Set RBW = 1%-5% OBW. | | | | | |
| | 2. Set the video bandwidth (VBW) ≥ 3 x RBW. | | | | | |
| | 3. Set the span range between 2 times and 5 times of the OBW. | | | | | |
| | 4. Sweep time=Auto, Detector=PK, Trace=Max hold. | | | | | |
| | 5. Once the reference level is established, the equipment is conditioned with t | | | | | |
| | ypical modulating signals to produce the worst- | | | | | |



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| | case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed |
|--------|---|
| | wireless device, measure the bandwidth at the 20 dB levels with respect to the |
| | reference level. |
| Remark | |
| Result | Pass |

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

Measurement result

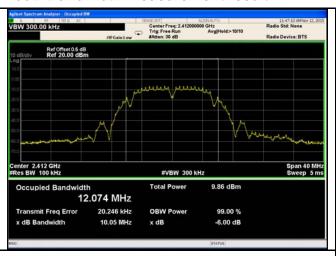
| Test mode | СН | Freq (MHz) | 6dB Bandwidth (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) |
|-----------|------|------------|------------------------|-------------------------|-------------|
| | Low | 2412 | 10.05 | 14.15 | ≥ 0.5 |
| 802.11b | Mid | 2437 | 10.05 | 14.15 | ≥ 0.5 |
| | High | 2462 | 10.05 | 14.15 | ≥ 0.5 |
| | Low | 2412 | 16.04 | 21.33 | ≥ 0.5 |
| 802.11g | Mid | 2437 | 16.26 | 20.47 | ≥ 0.5 |
| | High | 2462 | 16.30 | 21.11 | ≥ 0.5 |
| 000 11 = | Low | 2412 | 17.57 | 19.70 | ≥ 0.5 |
| 802.11n | Mid | 2437 | 17.56 | 19.42 | ≥ 0.5 |
| (20M) | High | 2462 | 17.33 | 20.11 | ≥ 0.5 |



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Test Plots

6dB Bandwidth measurement result

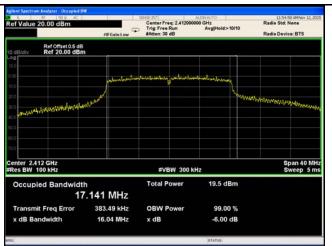




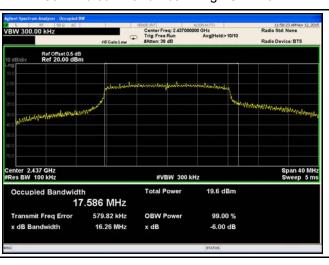
802.11b 6dB Bandwidth - Low CH 2412



802.11b 6dB Bandwidth - Mid CH 2437



802.11b 6dB Bandwidth - High CH 2462



802.11g 6dB Bandwidth - Low CH 2412

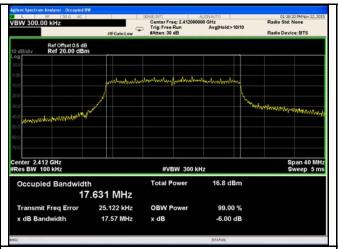


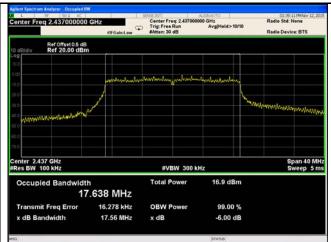
802.11g 6dB Bandwidth - Mid CH 2437

802.11g 6dB Bandwidth - High CH 2462



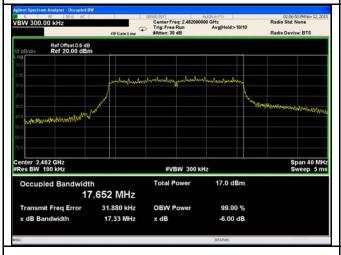
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802.11n20 6dB Bandwidth - Low CH 2412



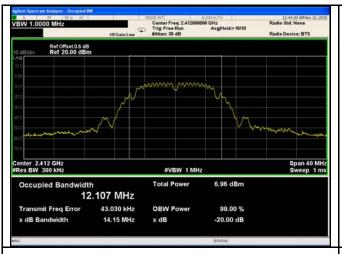


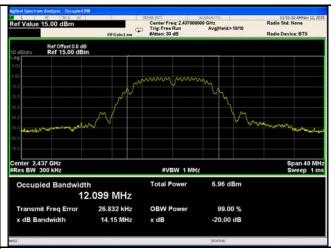
802.11n20 6dB Bandwidth - High CH 2462



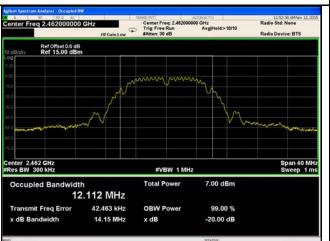
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20 dB Bandwidth measurement result

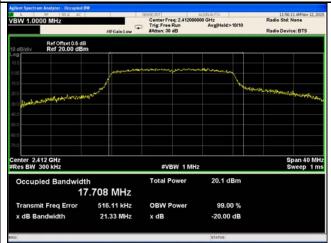




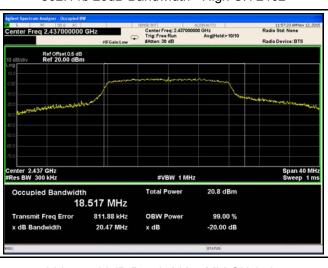
802.11b 20dB Bandwidth - Low CH 2412



802.11b 20dB Bandwidth - Mid CH 2437



802.11b 20dB Bandwidth - High CH 2462



802.11g 20dB Bandwidth - Low CH 2412

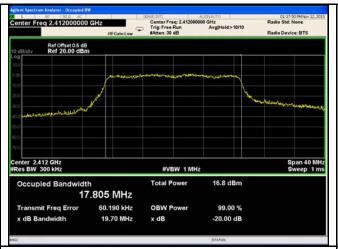


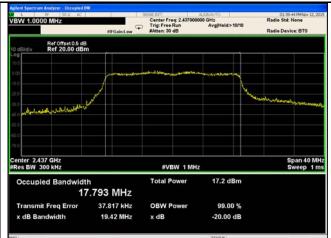
802.11g 20dB Bandwidth - Mid CH 2437

802.11g 20dB Bandwidth - High CH 2462

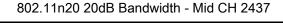


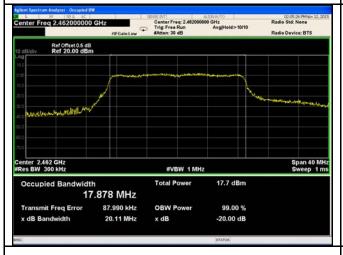
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802.11n20 20dB Bandwidth - Low CH 2412





802.11n20 20dB Bandwidth - High CH 2462



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6.3 Maximum Output Power

| Temperature | 25°C |
|----------------------|-------------------|
| Relative Humidity | 54% |
| Atmospheric Pressure | 1012mbar |
| Test date : | November 12, 2015 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Ite | Requirement | Applicable | |
|-------------------|---|---|------------|--|
| Spec | m | | | |
| | a) | FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt | | |
| | b) | FHSS in 5725-5850MHz: ≤ 1 Watt | | |
| §15.247(b) | c) | For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt. | | |
| (2) | d) | FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt | | |
| (-) | e) | FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt | | |
| | f) | DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz: ≤ 1 Watt | V | |
| Test Setup | Spectrum Analyzer EUT | | | |
| Test Procedure | 558074 D01 DTS MEAS Guidance v03r02, 9.1.2 Integrated band power method Maximum output power measurement procedure - a) Set span to at least 1.5 times the OBW. - b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz. - c) Set VBW ≥ 3 x RBW. - d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.) - e) Sweep time = auto. - f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. - g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable | | | |



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| | | triggering only on full power pulses. The transmitter shall operate at maximum |
|-----------|----------------|---|
| | | power control level for the entire duration of every sweep. If the EUT transmits |
| | | continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each |
| | | transmission is entirely at the maximum power control level, then the trigger shall |
| | | be set to " free run" . |
| | | - h) Trace average at least 100 traces in power averaging (i.e., RMS) mode. |
| | | - i) Compute power by integrating the spectrum across the OBW of the signal |
| | | using the instrument's band power measurement function, with band limits set |
| | | equal to the OBW band edges. If the instrument does not have a band power |
| | | function, sum the spectrum levels (in power units) at intervals equal to the RBW |
| | | extending across the entire OBW of the spectrum. |
| Remark | | |
| Result | | Pass Fail |
| | | |
| Test Data | Y | es N/A |
| Test Plot | V _Y | es (See below) |

Output Power measurement result

| Туре | Test mode | СН | Freq (MHz) | Conducted Power (dBm) | Limit (dBm) | Result |
|-----------------|------------------|------|------------|-----------------------|----------------|--------|
| | | Low | 2412 | 5.50 | 30 | Pass |
| | 802.11b | Mid | 2437 | 5.53 | 30 | Pass |
| | | High | 2462 | 5.54 | 30 | Pass |
| Out to ut | 802.11g | Low | 2412 | 8.38 | 30 | Pass |
| Output power | | Mid | 2437 | 8.11 | 30 | Pass |
| | | High | 2462 | 8.21 | 30 | Pass |
| | 802.11n (20M) | Low | 2412 | 8.68 | 30 | Pass |
| | | Mid | 2437 | 8.80 | 30 | Pass |
| | | High | 2462 | 8.91 | 30 | Pass |



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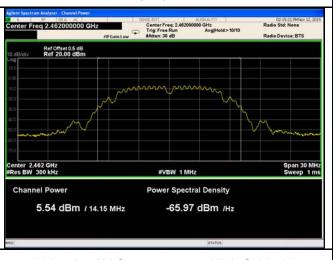
Test Plots

The Average Power





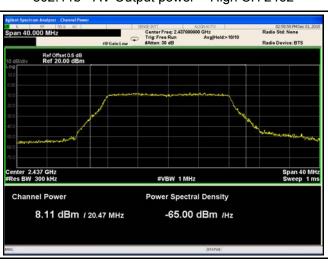
802.11b - AV Output power - Low CH 2412



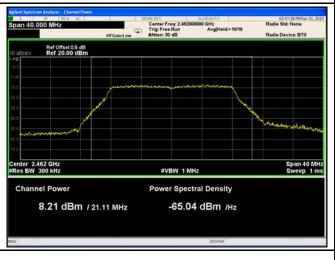
802.11b - AV Output power - Mid CH 2437



802.11b - AV Output power - High CH 2462



802.11g - AV Output power - Low CH 2412



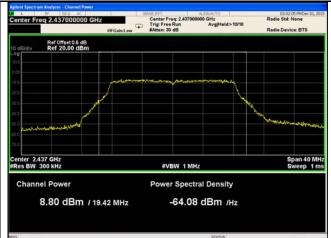
802.11g - AV Output power - Mid CH 2437

802.11g - AV Output power - High CH 2462



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802.11n20 - AV Output power - Low CH 2412





802.11n20 - AV Output power - High CH 2462



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6.4 Power Spectral Density

| Temperature | 25℃ |
|----------------------|-------------------|
| Relative Humidity | 54% |
| Atmospheric Pressure | 1012mbar |
| Test date : | November 12, 2015 |
| Tested By : | Winnie Zhang |

| Spec | Item | Requirement | Applicable |
|-------------------|---------|--|------------|
| §15.247(e) | a) | The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. | > |
| Test Setup | | Spectrum Analyzer EUT | |
| Test Procedure | power s | A D01 DTS MEAS Guidance v03r02, 10.2 power spectral density spectral 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 kHz ≤ RBW ≤ 100 kHz. d) Set the VBW ≥ 3 × RBW. e) Detector = peak. 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 and level within the RBW. j) If measured value exceeds limit, reduce RBW (no less than repeat. | uency. |
| Remark | | | |
| Result | Pas | ss Fail | |



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| Test Data | l |
|-----------|---|
|-----------|---|

Yes

Yes (See below)



Power Spectral Density measurement result

| Туре | Test mode | СН | Freq (MHz) | PSD (dBm) | Limit (dBm) | Result |
|------|-----------|------|------------|--------------|----------------|--------|
| | | Low | 2412 | -7.019 | 8 | Pass |
| | 802.11b | Mid | 2437 | -1.989 | 8 | Pass |
| | | High | 2462 | -4.924 | 8 | Pass |
| | | Low | 2412 | -6.973 | 8 | Pass |
| PSD | 802.11g | Mid | 2437 | -1.687 | 8 | Pass |
| | | High | 2462 | -4.599 | 8 | Pass |
| | 000 445 | Low | 2412 | -6.982 | 8 | Pass |
| | 802.11n | Mid | 2437 | -1.138 | 8 | Pass |
| | (20M) | | 2462 | -4.438 | 8 | Pass |



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Test Plots

Power Spectral Density measurement result

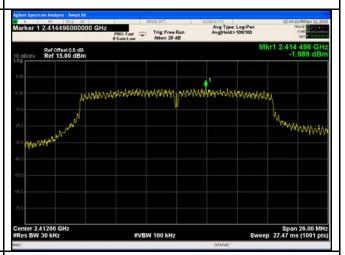




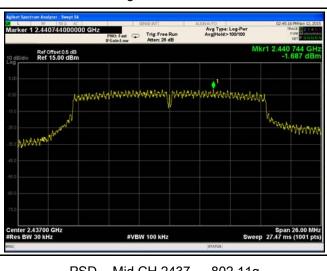
PSD - Low CH 2412 - 802.11b



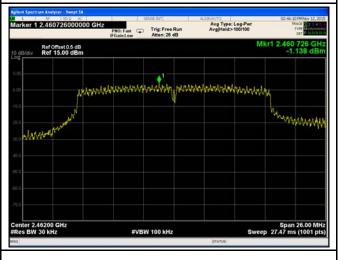
PSD - Mid CH 2437 - 802.11b



PSD - High CH 2462 - 802.11b



PSD - Low CH 2412 -802.11g

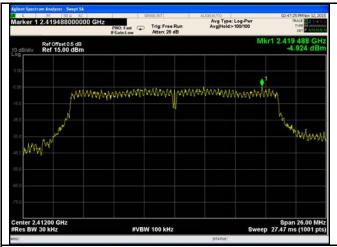


PSD - Mid CH 2437 - 802.11g

PSD - High CH 2462 - 802.11g



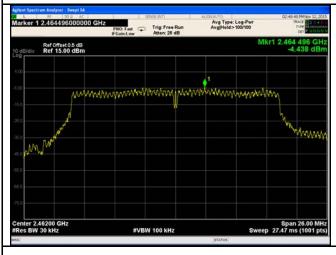
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PSD - Low CH 2412 - 802.11n20

PSD - Mid CH 2437 - 802.11n20



PSD - High CH 2462 - 802.11n20



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

| Temperature | 25°C |
|----------------------|-------------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1016mbar |
| Test date : | November 16, 2015 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement | Applicable |
|-------------------|---|-------------|------------|
| §15.247(d) | 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. | | V |
| Test Setup | Ant. Tower Support Units 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. | | |



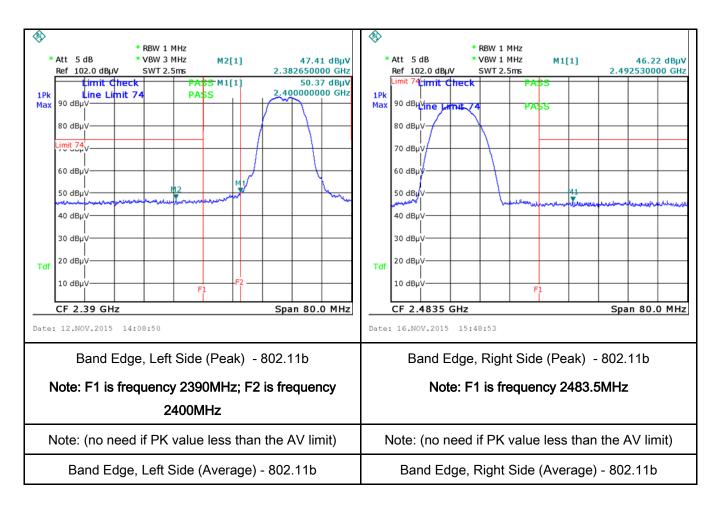
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| | | - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a |
|------------|----|--|
| | | convenient frequency span including 100kHz bandwidth from band edge, |
| | | check the emission of EUT, if pass then set Spectrum Analyzer as below: |
| | | a. The resolution bandwidth and video bandwidth of test receiver/spectrum |
| | | analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. |
| | | b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and |
| | | video bandwidth is 3MHz with Peak detection for Peak measurement at |
| | | frequency above 1GHz. |
| | | c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the |
| | | video bandwidth is 10Hz with Peak detection for Average Measurement as below |
| | | at frequency above 1GHz. |
| | | - 4. Measure the highest amplitude appearing on spectral display and set it as a |
| | | reference level. Plot the graph with marking the highest point and edge |
| | | frequency. |
| | | - 5. Repeat above procedures until all measured frequencies were complete. |
| Remark | | |
| Result | | Pass Fail |
| • | ' | |
| Test Data | V. | es N/A |
| i est Data | Y | es IV/A |
| Test Plot | Y | es (See below) |



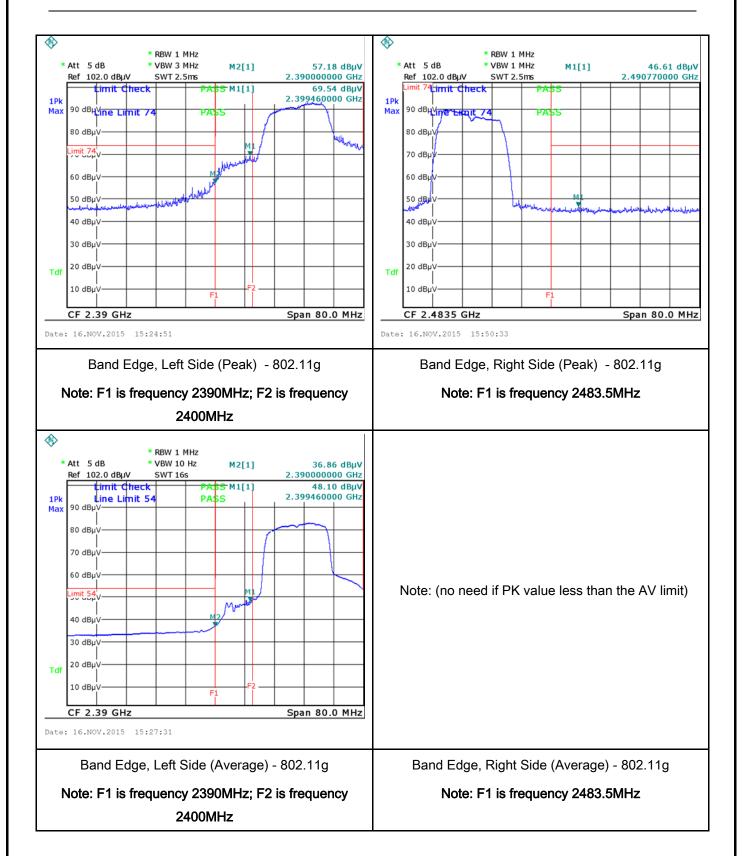
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Test Plots Band Edge measurement result



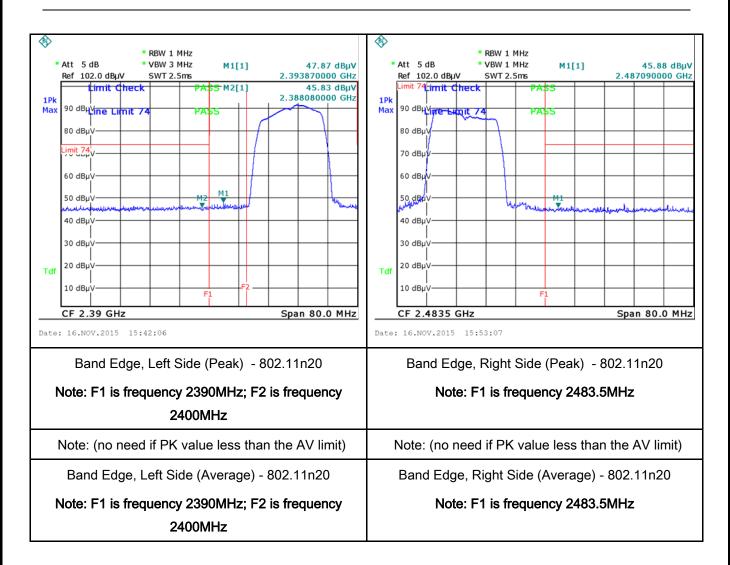


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6.6 AC Power Line Conducted Emissions

| Temperature | 24°C |
|----------------------|-------------------|
| Relative Humidity | 53% |
| Atmospheric Pressure | 1011mbar |
| Test date : | November 11, 2015 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement Applicable | | | | |
|-------------------|---|--|---------------|-----------------|--|--|
| 47CFR§15. 207, | a) | For Low-power radio-fr connected to the public voltage that is conducte frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at the frequency ranges | <u>></u> | | | |
| | | (MHz) 0.15 ~ 0.5 | QP 66 – 56 | Average 56 - 46 | | |
| | | 0.5 ~ 5 | 56 | 46 | | |
| | | 5 ~ 30 | 50 | | | |
| Test Setup | Vertical Ground Reference Plane Bocm Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm | | | | | |
| 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 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss | | | | | |



Test Plot

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|-----------------|-----------------|
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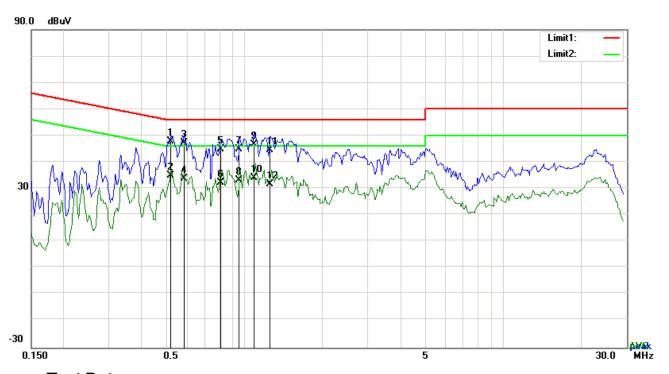
| | coaxial cable. | | | | |
|-----------|---|--|--|--|--|
| | 4. All other supporting equipment were powered separately from another main supply. | | | | |
| | 5. The EUT was switched on and allowed to warm up to its normal operating condition. | | | | |
| | 6. A scan was made on the NEUTRAL line (for 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 | Pass Fail | | | | |
| | | | | | |
| Test Data | Yes N/A | | | | |

Yes (See below)



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



Test Data

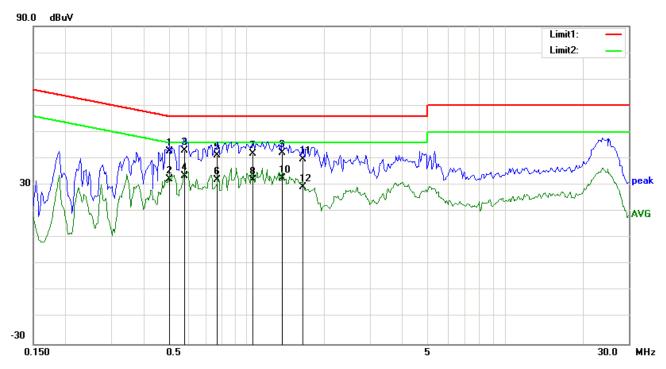
Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | L1 | 0.5205 | 37.86 | QP | 10.03 | 47.89 | 56.00 | -8.11 |
| 2 | L1 | 0.5205 | 24.93 | AVG | 10.03 | 34.96 | 46.00 | -11.04 |
| 3 | L1 | 0.5829 | 37.32 | QP | 10.03 | 47.35 | 56.00 | -8.65 |
| 4 | L1 | 0.5829 | 23.73 | AVG | 10.03 | 33.76 | 46.00 | -12.24 |
| 5 | L1 | 0.8130 | 34.86 | QP | 10.03 | 44.89 | 56.00 | -11.11 |
| 6 | L1 | 0.8130 | 22.16 | AVG | 10.03 | 32.19 | 46.00 | -13.81 |
| 7 | L1 | 0.9573 | 34.76 | QP | 10.03 | 44.79 | 56.00 | -11.21 |
| 8 | L1 | 0.9573 | 23.03 | AVG | 10.03 | 33.06 | 46.00 | -12.94 |
| 9 | L1 | 1.0899 | 36.73 | QP | 10.03 | 46.76 | 56.00 | -9.24 |
| 10 | L1 | 1.0899 | 23.92 | AVG | 10.03 | 33.95 | 46.00 | -12.05 |
| 11 | L1 | 1.2615 | 34.43 | QP | 10.03 | 44.46 | 56.00 | -11.54 |
| 12 | L1 | 1.2615 | 21.62 | AVG | 10.03 | 31.65 | 46.00 | -14.35 |



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Test Mode: Transmitting Mode



Test Data

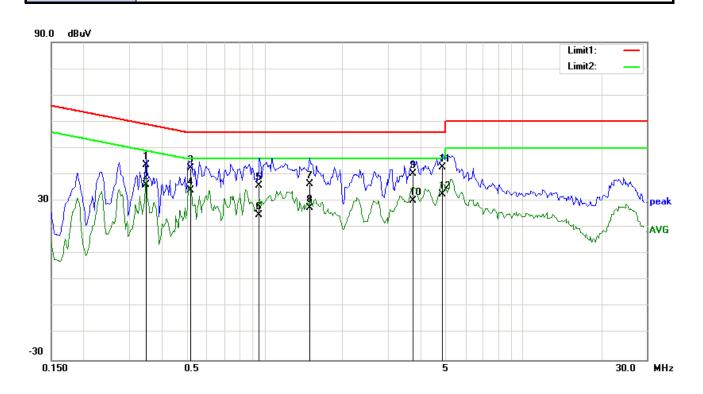
Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | N | 0.5049 | 32.59 | QP | 10.02 | 42.61 | 56.00 | -13.39 |
| 2 | N | 0.5049 | 22.35 | AVG | 10.02 | 32.37 | 46.00 | -13.63 |
| 3 | N | 0.5790 | 32.89 | QP | 10.02 | 42.91 | 56.00 | -13.09 |
| 4 | N | 0.5790 | 23.51 | AVG | 10.02 | 33.53 | 46.00 | -12.47 |
| 5 | Ν | 0.7740 | 31.35 | QP | 10.03 | 41.38 | 56.00 | -14.62 |
| 6 | N | 0.7740 | 21.79 | AVG | 10.03 | 31.82 | 46.00 | -14.18 |
| 7 | N | 1.0626 | 31.85 | QP | 10.03 | 41.88 | 56.00 | -14.12 |
| 8 | Ν | 1.0626 | 21.86 | AVG | 10.03 | 31.89 | 46.00 | -14.11 |
| 9 | N | 1.3785 | 32.24 | QP | 10.03 | 42.27 | 56.00 | -13.73 |
| 10 | N | 1.3785 | 22.49 | AVG | 10.03 | 32.52 | 46.00 | -13.48 |
| 11 | N | 1.6515 | 29.67 | QP | 10.04 | 39.71 | 56.00 | -16.29 |
| 12 | N | 1.6515 | 19.20 | AVG | 10.04 | 29.24 | 46.00 | -16.76 |



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Test Mode: Transmitting Mode



Test Data

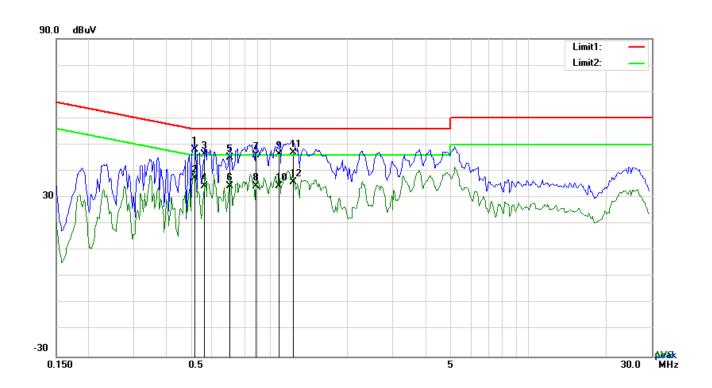
Phase Line Plot at 240Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | L1 | 0.3489 | 33.75 | QP | 10.03 | 43.78 | 58.99 | -15.21 |
| 2 | L1 | 0.3489 | 26.07 | AVG | 10.03 | 36.10 | 48.99 | -12.89 |
| 3 | L1 | 0.5205 | 32.52 | QP | 10.03 | 42.55 | 56.00 | -13.45 |
| 4 | L1 | 0.5205 | 24.10 | AVG | 10.03 | 34.13 | 46.00 | -11.87 |
| 5 | L1 | 0.9573 | 25.93 | QP | 10.03 | 35.96 | 56.00 | -20.04 |
| 6 | L1 | 0.9573 | 14.85 | AVG | 10.03 | 24.88 | 46.00 | -21.12 |
| 7 | L1 | 1.4955 | 26.55 | QP | 10.04 | 36.59 | 56.00 | -19.41 |
| 8 | L1 | 1.4955 | 17.41 | AVG | 10.04 | 27.45 | 46.00 | -18.55 |
| 9 | L1 | 3.7488 | 30.38 | QP | 10.06 | 40.44 | 56.00 | -15.56 |
| 10 | L1 | 3.7488 | 20.19 | AVG | 10.06 | 30.25 | 46.00 | -15.75 |
| 11 | L1 | 4.8915 | 32.72 | QP | 10.08 | 42.80 | 56.00 | -13.20 |
| 12 | L1 | 4.8915 | 22.43 | AVG | 10.08 | 32.51 | 46.00 | -13.49 |



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



Test Data

Phase Neutral Plot at 240Vac, 60Hz

| No. | P/L | P/L ' ' | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBµV) | | (dB) | (dBµV) | (dBµV) | (dB) |
| 1 | N | 0.5166 | 38.11 | QP | 10.02 | 48.13 | 56.00 | -7.87 |
| 2 | N | 0.5166 | 27.40 | AVG | 10.02 | 37.42 | 46.00 | -8.58 |
| 3 | N | 0.5634 | 36.35 | QP | 10.02 | 46.37 | 56.00 | -9.63 |
| 4 | N | 0.5634 | 24.33 | AVG | 10.02 | 34.35 | 46.00 | -11.65 |
| 5 | N | 0.7038 | 35.23 | QP | 10.02 | 45.25 | 56.00 | -10.75 |
| 6 | N | 0.7038 | 24.18 | AVG | 10.02 | 34.20 | 46.00 | -11.80 |
| 7 | N | 0.8871 | 36.02 | QP | 10.03 | 46.05 | 56.00 | -9.95 |
| 8 | N | 0.8871 | 24.25 | AVG | 10.03 | 34.28 | 46.00 | -11.72 |
| 9 | N | 1.0938 | 36.41 | QP | 10.03 | 46.44 | 56.00 | -9.56 |
| 10 | N | 1.0938 | 24.29 | AVG | 10.03 | 34.32 | 46.00 | -11.68 |
| 11 | N | 1.2381 | 36.78 | QP | 10.03 | 46.81 | 56.00 | -9.19 |
| 12 | N | 1.2381 | 25.70 | AVG | 10.03 | 35.73 | 46.00 | -10.27 |



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6.7 Radiated Emissions

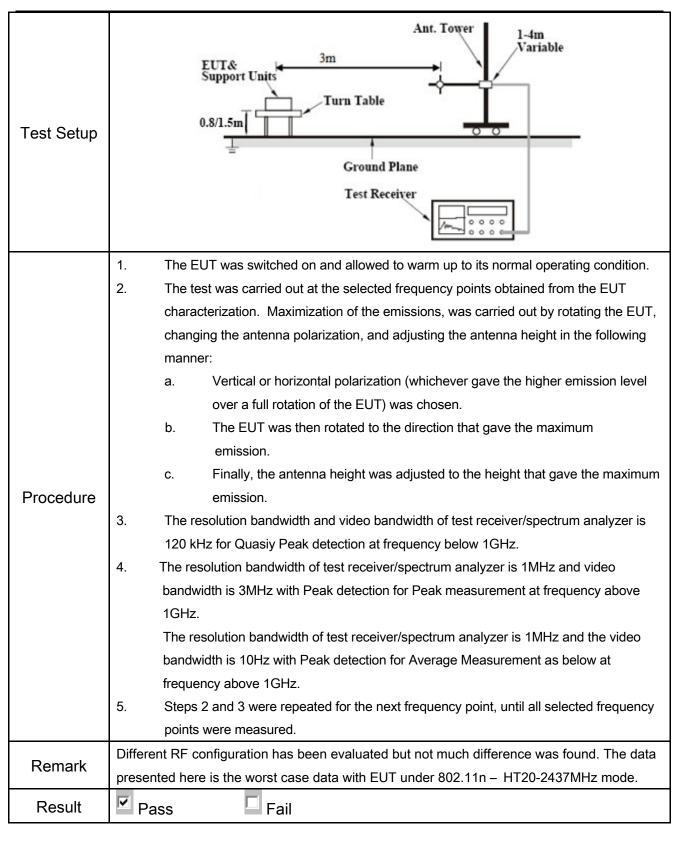
| Temperature | 22°C |
|----------------------|-------------------|
| Relative Humidity | 51% |
| Atmospheric Pressure | 1009mbar |
| Test date : | November 09, 2015 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement | Applicable | | |
|-----------|------|--|--|----------|--|
| | | Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tigh | | | |
| | a) | edges | itel littit applies at the band | V | |
| | | Frequency range (MHz) | Field Strength (μV/m) | | |
| | | 30 – 88 | 100 | | |
| | | 88 – 216 | 150 | | |
| | | 216 960 | 200 | | |
| 47CFR§15. | | Above 960 | 500 | | |
| 247(d), | b) | For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the intentional produced by the intentional radiator is oppower that is produced by the intention band that contains the highest lever determined by the measurement mused. Attenuation below the general is not required 20 dB down 30 | d spectrum or digitally perating, the radio frequency tional radiator shall be at least 0 kHz bandwidth within the 1 of the desired power, ethod on output power to be | Y | |
| | c) | or restricted band, emission must also comply with the radiated emission limits specified in 15.209 | | V | |



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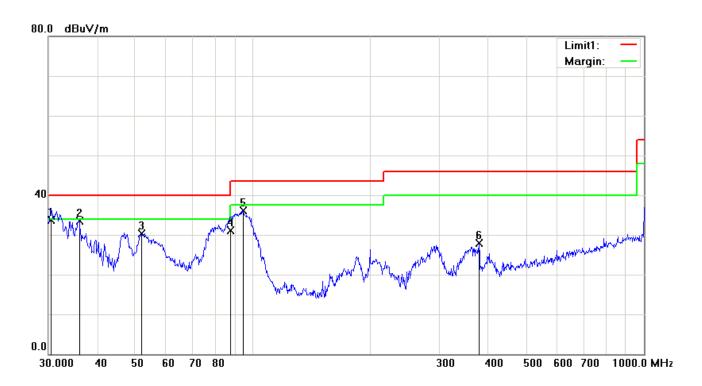


| Test Data | Yes | |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ _{N/A} |



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(Below 1GHz)



Test Data

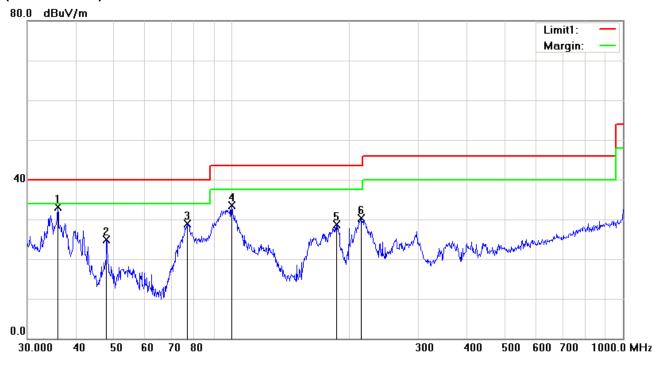
Vertical Polarity Plot @3m

| No | P/L | Frequency | Reading | Detec | Correcte | Result | Limit | Margin | Height | Degree |
|-----|-------|-----------|---------|-------|----------|--------|--------|--------|---------|--------|
| 140 | 1 / L | (MHz) | (dBµV) | tor | d (dB) | (dBµV) | (dBµV) | (dB) | rieignt | Degree |
| 1 | V | 30.5306 | 34.38 | QP | -0.66 | 33.72 | 40.00 | -6.28 | 100 | 231 |
| 2 | V | 36.0007 | 38.27 | peak | -4.67 | 33.60 | 40.00 | -6.40 | 100 | 172 |
| 3 | V | 51.8430 | 43.77 | peak | -13.40 | 30.37 | 40.00 | -9.63 | 100 | 257 |
| 4 | V | 87.8273 | 44.53 | QP | -13.43 | 31.10 | 40.00 | -8.90 | 100 | 53 |
| 5 | V | 94.4284 | 48.40 | peak | -12.27 | 36.13 | 43.50 | -7.37 | 100 | 201 |
| 6 | V | 378.5843 | 32.63 | peak | -4.80 | 27.83 | 46.00 | -18.17 | 100 | 150 |



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(Below 1GHz)



Test Data

Horizontal Polarity Plot @3m

| No | P/L | Frequency | Reading | Detec | Correcte | Result | Limit | Margin | Usiabt | Dogras |
|-----|-----|-----------|---------|-------|----------|--------|--------|--------|--------|--------|
| INO | P/L | (MHz) | (dBµV) | tor | d (dB) | (dBµV) | (dBµV) | (dB) | Height | Degree |
| 1 | Н | 35.8747 | 37.61 | peak | -4.58 | 33.03 | 40.00 | -6.97 | 100 | 345 |
| 2 | Н | 47.8260 | 37.20 | peak | -12.20 | 25.00 | 40.00 | -15.00 | 100 | 248 |
| 3 | Н | 76.7808 | 42.74 | peak | -13.76 | 28.98 | 40.00 | -11.02 | 100 | 199 |
| 4 | Н | 99.8777 | 44.28 | peak | -10.83 | 33.45 | 43.50 | -10.05 | 100 | 188 |
| 5 | Н | 185.1379 | 38.30 | peak | -9.55 | 28.75 | 43.50 | -14.75 | 100 | 132 |
| 6 | Н | 213.7634 | 39.18 | peak | -8.87 | 30.31 | 43.50 | -13.19 | 100 | 139 |



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| Test Mode: Tra | ansmitting Mode |
|----------------|-----------------|
|----------------|-----------------|

Low Channel (2412 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) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|
| 4824 | 38.37 | AV | V | 34 | 6.86 | 31.72 | 47.51 | 54 | -6.49 |
| 4824 | 37.91 | AV | Н | 33.8 | 6.86 | 31.72 | 46.85 | 54 | -7.15 |
| 4824 | 46.55 | PK | V | 34 | 6.86 | 31.72 | 55.69 | 74 | -18.31 |
| 4824 | 46.83 | PK | Н | 33.8 | 6.86 | 31.72 | 55.77 | 74 | -18.23 |

Middle Channel (2437 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) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|
| 4874 | 38.32 | AV | ٧ | 33.6 | 6.82 | 31.82 | 46.92 | 54 | -7.08 |
| 4874 | 37.88 | AV | Н | 33.8 | 6.82 | 31.82 | 46.68 | 54 | -7.32 |
| 4874 | 46.47 | PK | V | 33.6 | 6.82 | 31.82 | 55.07 | 74 | -18.93 |
| 4874 | 46.75 | PK | Н | 33.8 | 6.82 | 31.82 | 55.55 | 74 | -18.45 |

High Channel (2462 MHz)

| | 11911 311411131 (2.132.13112) | | | | | | | | | |
|--------------------|-------------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|--|
| 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) | |
| 4924 | 38.27 | AV | V | 34.6 | 6.76 | 31.92 | 47.71 | 54 | -6.29 | |
| 4924 | 37.81 | AV | Н | 34.7 | 6.76 | 31.92 | 47.35 | 54 | -6.65 | |
| 4924 | 46.53 | PK | V | 34.6 | 6.76 | 31.92 | 55.97 | 74 | -18.03 | |
| 4924 | 46.69 | PK | Н | 34.7 | 6.76 | 31.92 | 56.23 | 74 | -17.77 | |



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Annex A. TEST INSTRUMENT

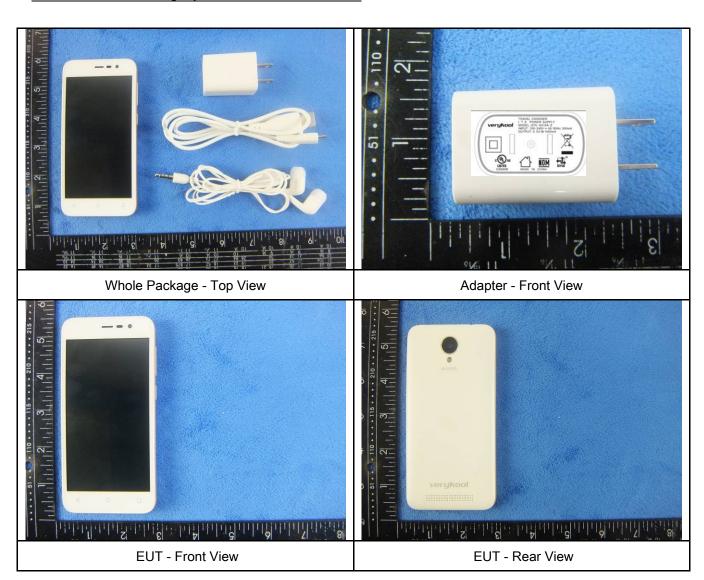
| Instrument | Model | Serial# | Cal Date | Cal Due | In use |
|---|----------|-------------|------------|------------|-------------|
| AC Line Conducted | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 09/17/2015 | 09/16/2016 | <u> </u> |
| Line Impedance | LI-125A | 191106 | 09/25/2015 | 09/24/2016 | > |
| Line Impedance | LI-125A | 191107 | 09/25/2015 | 09/24/2016 | ~ |
| LISN | ISN T800 | 34373 | 09/25/2015 | 09/24/2016 | ~ |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/24/2015 | 09/23/2016 | \ |
| Transient Limiter | LIT-153 | 531118 | 09/01/2015 | 08/31/2016 | > |
| RF conducted test | | | | | |
| Agilent ESA-E SERIES | E4407B | MY45108319 | 09/17/2015 | 09/16/2016 | ~ |
| Power Splitter | 1# | 1# | 09/01/2015 | 08/31/2016 | <u><</u> |
| DC Power Supply | E3640A | MY40004013 | 09/17/2015 | 09/16/2016 | <u><</u> |
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/17/2015 | 09/16/2016 | ~ |
| Positioning Controller | UC3000 | MF780208282 | 11/19/2015 | 11/18/2019 | • |
| 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 | <u><</u> |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/21/2015 | 09/20/2016 | <u><</u> |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/24/2015 | 09/23/2016 | Z. |
| Universal Radio Communication Tester | CMU200 | 121393 | 09/25/2015 | 09/23/2016 | V |



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Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





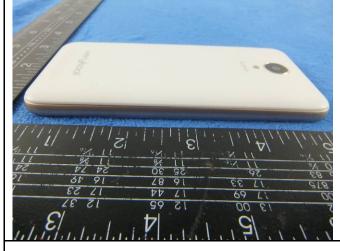
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26 30 24 74 24 33 11 34 11 1576 11 157

EUT - Top View

EUT - Bottom View



EUT - Left View



EUT - Right View



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Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1



Cover Off - Top View 2



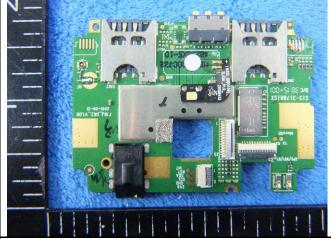
Battery - Top View



Battery - Bottom View



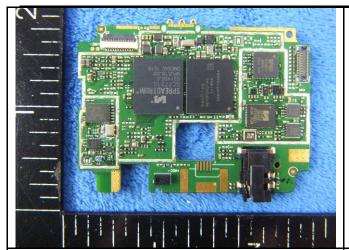
Mainborad With Shielding - Front View



Mainborad With Shielding - Rear View



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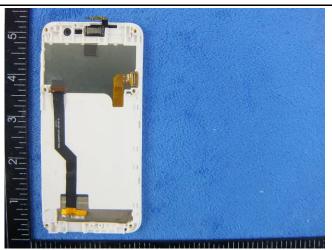
Mainborad Without Shielding - Front View



Mainborad Without Shielding - Rear View



LCD - Front View



LCD - Rear View



GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/GPS - Antenna View



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Annex B.iii. Photograph: Test Setup Photo



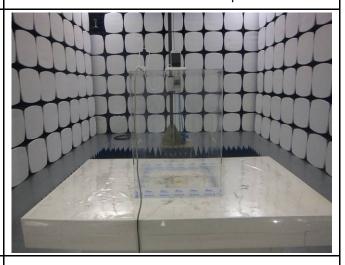
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

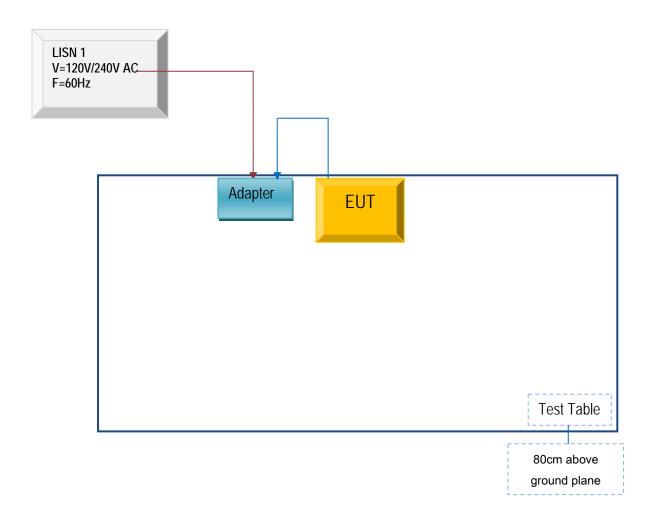


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

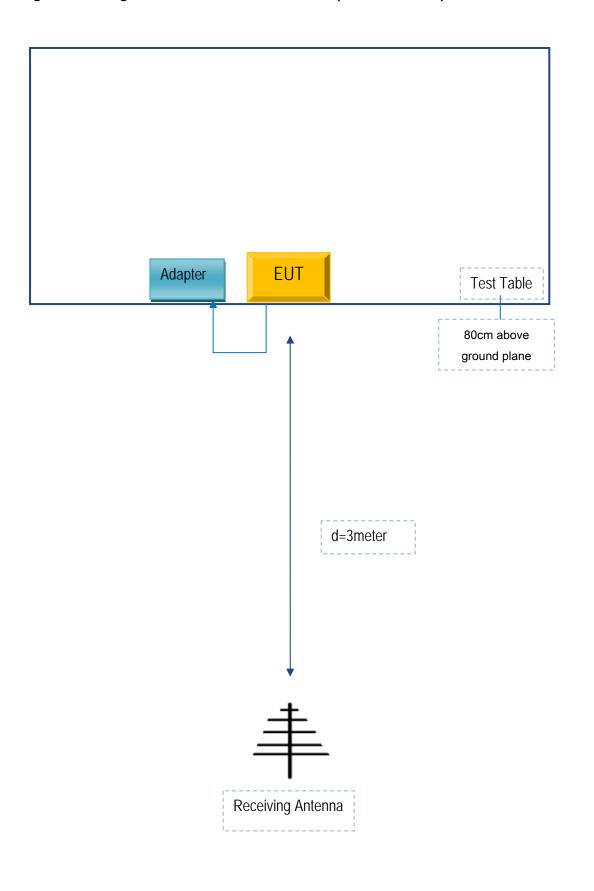
Block Configuration Diagram for AC Line Conducted Emissions





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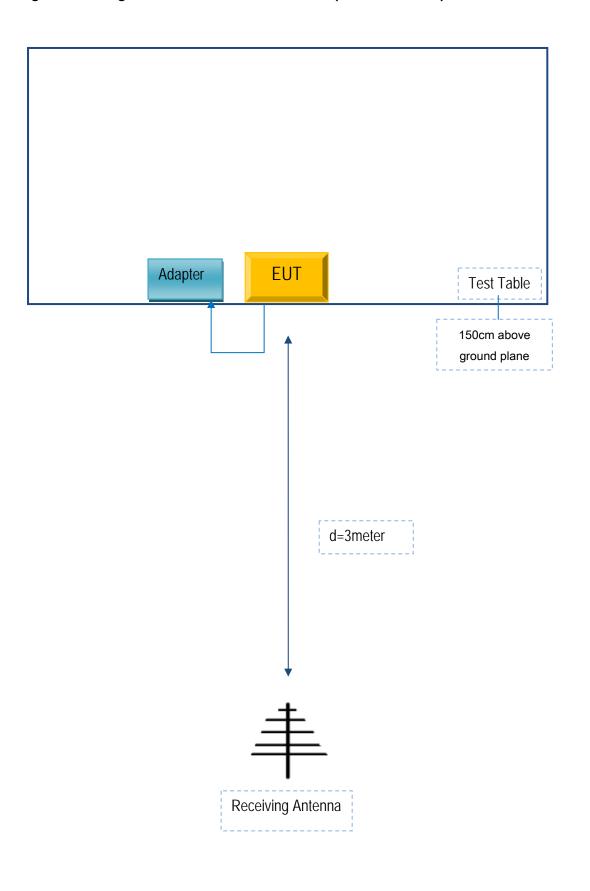
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

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

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



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

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

N/A