RF TEST REPORT

SIEMIC GLOBAL TESTING & CERTIFICATIONS YOUR CHOICE FOR- TCB FCB CB NB CAB RCB

| Report No.: 16070667-FCC-R3 | | | |
|---|------------------|-----------------------------|-----|
| Supersede Report No.:N/A | | | |
| Applicant | Verykool USA Inc | | |
| Product Name | Smart Pho | ne | |
| Model No. | SL5008T | | |
| Serial No. | SL5008 | | |
| Test Standard | FCC Part 1 | 5.247: 2015, ANSI C63.10: 2 | 013 |
| Test Date | June 08 to | July 12, 2016 | |
| Issue Date | July13, 2016 | | |
| Test Result | Pass Fail | | |
| Equipment compl | ied with the | specification | |
| Equipment did no | t comply wit | n the specification | |
| Loven 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 | | | |

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Laboratories Introduction

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



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

| 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 |
|-----------------|----------------|-------------|--------------|
| 16070667-FCC-R3 | NONE | Original | July13, 2016 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | Verykool USA Inc | |
|------------------|---|--|
| Applicant Add | 3636 Nobel Drive, Suite 325, San Diego, California 92122 United States | |
| Manufacturer | SHENZHEN TOPWELL TECHNOLOGY CO.LTD | |
| Manufacturer Add | T5F, 10Building,Changyuan New Material Port,No.2,Middle Road 1, High Tech | |
| | Park, Nanshan District ,Shenzhen, 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 | Radiated Emission Program-To Shenzhen v2.0 |



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4. Equipment under Test (EUT) Information

| Description of EUT: | Smart Phone | | |
|----------------------|---------------------------------|--|--|
| Main Model: | SL5008T | | |
| Serial Model: | SL5008 | | |
| Date EUT received: | June 07, 2016 | | |
| Test Date(s): | June 08 to July 12, 2016 | | |
| Equipment Category : | DTS | | |
| | GSM850: 1.09dBi | | |
| | PCS1900: 2.54dBi | | |
| | UMTS-FDD Band V: 1.14dBi | | |
| | UMTS-FDD Band IV: 2.89dBi | | |
| | UMTS-FDD Band II: 2.95dBi | | |
| Antenna Gain: | LTE Band 2: 2.71dBi | | |
| | LTE Band 4: 2.92dBi | | |
| | LTE Band 5: 1.34dBi | | |
| | LTE Band 7: 3.23dBi | | |
| | Bluetooth/BLE/WIFI:2.65dBi | | |
| | GPS: 1.42dBi | | |
| Antenna Type: | PIFA antenna | | |
| | Adapter: | | |
| | Model: SL5008 | | |
| | Input: AC 100-240V,50/60Hz;0.2A | | |
| Input Power: | Output: DC 5.0V,1A | | |
| | Battery: | | |
| | Model: SL5008 | | |
| | Spec: 3.8V,2300mAh(8.74Wh) | | |
| | Charge limited voltage: 4.35V | | |
| | | | |



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GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK LTE Band: QPSK, 16QAM 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 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 RF Operating Frequency (ies): LTE Band 2 TX: 1852.5 ~ 1907.5 MHz; RX : 1932.5 ~ 1987.5 MHz LTE Band 4 TX: 1712.5 ~ 1752.5 MHz; RX : 2112.5 ~ 2152.5 MHz LTE Band 5 TX: 826.5 ~ 846.5 MHz; RX : 871.5 ~ 891.5 MHz LTE Band 7 TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz GPS: 1575.42 MHz GSM 850: 124CH PCS1900: 299CH UMTS-FDD Band V: 102CH

> UMTS-FDD Band IV: 202CH UMTS-FDD Band II: 277CH

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

WIFI :802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Number of Channels:



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| Port: | Earphone Port, USB Port |
|-----------------------------|---|
| Max. Output Power: | 802.11b: 9.59dBm 802.11g: 9.317dBm 802.11n(20M): 9.63dBm 802.11n(40M): 9.64dBm |
| Trade Name : | N/A |
| GPRS/EGPRS Multi-slot class | 8/10/12 |
| FCC ID: | WA6SL5008T |



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

Measurement Uncertainty

| Emissions | | | | |
|--|---|---------------|--|--|
| Test Item | 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

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI/GPS, the gain is 2.65dBi for Bluetooth/BLE/ WIFI, the gain is 1.42dBi for GPS.

A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is 1.09dBi for GSM850, 2.54dBi for PCS1900, 1.14dBi for UMTS-FDD Band V, , 2.89dBi for UMTS-FDD Band IV , 2.95dBi for UMTS-FDD Band II.

A permanently attached PIFA antenna for LTE Band 2/4/5/7/, the gain is 2.71dBi for LTE Band 2, the gain is 2.92dBi for LTE Band 4, the gain is 1.34dBi for LTE Band 5, the gain is 3.23dBi for LTE Band 7.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB&20 dB) Channel Bandwidth

| Temperature | 23°C | | |
|----------------------|---------------|--|--|
| Relative Humidity | 54% | | |
| Atmospheric Pressure | 1030mbar | | |
| Test date : | June 30, 2016 | | |
| Tested By : | Loren Luo | | |

| Spec | Item | m Requirement A | | | | |
|----------------|---|---|---|--|--|--|
| § 15.247(a)(2) | a) | a) 6dB BW≥ 500kHz; 20dB BW≥ 500kHz; | | | | |
| RSS Gen(4.6.1) | b) | 99% BW: For FCC reference only; required by IC. | Z | | | |
| Test Setup | | | | | | |
| | 55807 | 4 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth | | | | |
| | 6dB b | andwidth | | | | |
| | a) Se | t RBW = 100 kHz. | | | | |
| | b) Se | t the video bandwidth (VBW) $\geq 3 \times RBW$. | | | | |
| | c) De | tector = 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 | | | | | |
| | equencies) that are attenuated by 6 dB relative to the maximum level measure | | | | | |
| | d in the fundamental emission. | | | | | |
| | 20dB bandwidth | | | | | |
| | C63.10 Occupied Bandwidth (OBW=20dB bandwidth) | | | | | |
| | | | | | | |
| | 2. Set the video bandwidth (VBW) \geq 3 x RBW. | | | | | |
| | | et 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 Fail |
| | |

Test Data

□_{N/A}

Test Plot

Yes (See below)

Measurement result

✓ Yes

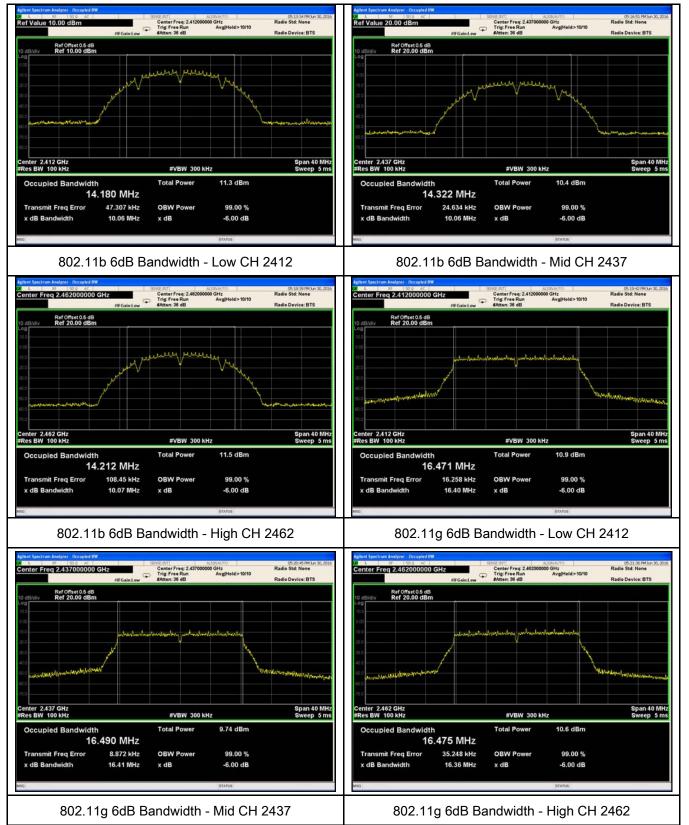
| Test mode | СН | CH Freq (MHz) 6dB Bandwidth (MHz) | | 20dB Bandwidth (MHz) | Limit (MHz) |
|-----------|------|-----------------------------------|-------|-------------------------|-------------|
| | Low | 2412 | 10.06 | 14.30 | ≥ 0.5 |
| 802.11b | Mid | 2437 | 10.06 | 14.34 | ≥ 0.5 |
| | High | 2462 | 10.07 | 14.23 | ≥ 0.5 |
| | Low | 2412 | 16.40 | 18.03 | ≥ 0.5 |
| 802.11g | Mid | 2437 | 16.41 | 18.35 | ≥ 0.5 |
| | High | 2462 | 16.36 | 17.98 | ≥ 0.5 |
| 902 11- | Low | 2412 | 17.59 | 18.82 | ≥ 0.5 |
| 802.11n | Mid | 2437 | 17.66 | 18.86 | ≥ 0.5 |
| (20M) | High | 2462 | 17.62 | 18.82 | ≥ 0.5 |
| 000 44- | Low | 2422 | 36.33 | 38.91 | ≥ 0.5 |
| 802.11n | Mid | 2437 | 36.38 | 38.76 | ≥ 0.5 |
| (40M) | High | 2452 | 36.10 | 38.86 | ≥ 0.5 |



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Test Plots

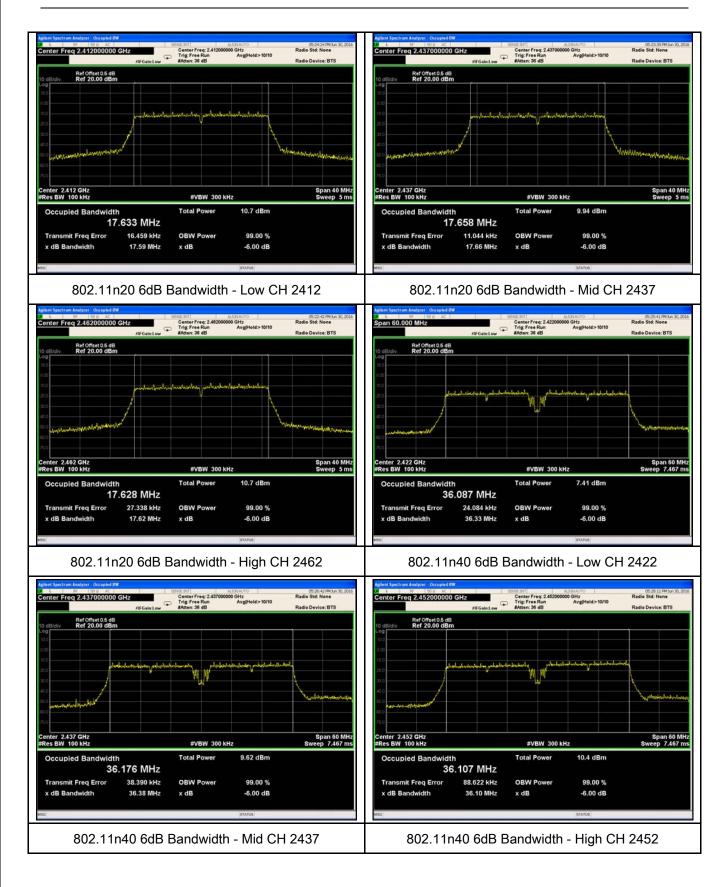
6dB Bandwidth measurement result





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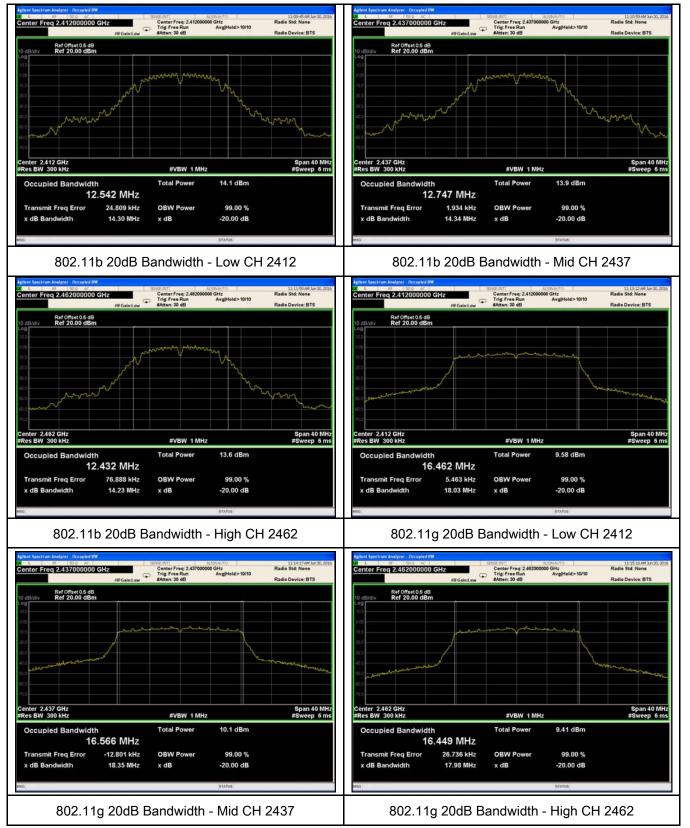
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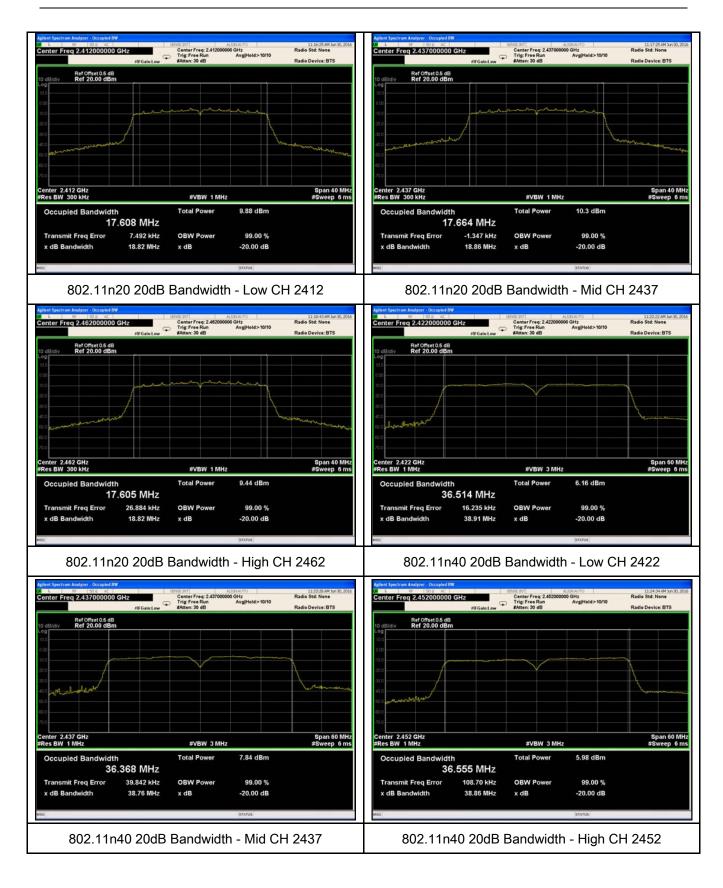
20 dB Bandwidth measurement result





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6.3 Maximum Output Power

| Temperature | 23°C |
|----------------------|---------------|
| Relative Humidity | 54% |
| Atmospheric Pressure | 1030mbar |
| Test date : | June 30, 2016 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Ite | Requirement | Applicable | | | |
|--------------------------|--|---|------------|--|--|--|
| 0000 | m | | | | | |
| | 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 ≥ 50 channels: ≤ 1 Watt | | | | |
| (, (0, 1)) | 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 | | | | | | |
| Test Procedure | 558074 D01 DTS MEAS Guidance v03r03, 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 triggering only on full power pulses. The transmitter shall operate at maximum | | | | | |



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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.

| Result | Pass | E Fail |
|--------|------|--------|
| | | |

Test Data



Test Plot

Output Power measurement result

Yes (See below)

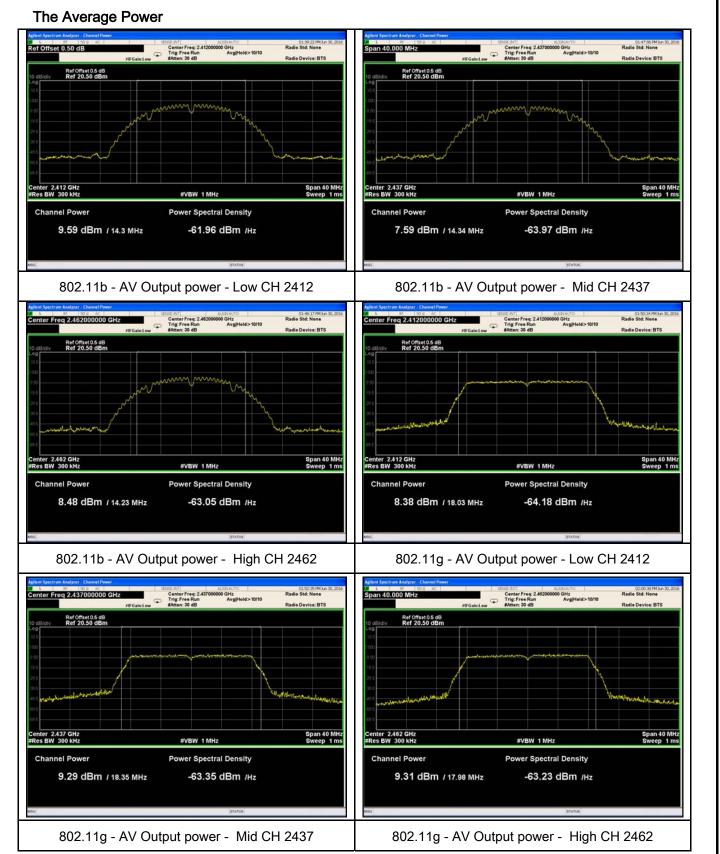
✓ Yes

| Туре | Test mode | СН | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Result |
|--------|--------------------------------------|------|--------------------|--------------------------|----------------|--------|
| | | Low | 2412 | 9.59 | 30 | Pass |
| | 802.11b | Mid | 2437 | 7.59 | 30 | Pass |
| | | High | 2462 | 8.48 | 30 | Pass |
| | 802.11g | Low | 2412 | 8.38 | 30 | Pass |
| | | Mid | 2437 | 9.29 | 30 | Pass |
| Output | | High | 2462 | 9.31 | 30 | Pass |
| power | 802.11n (20M) 802.11n (40M) | Low | 2412 | 9.23 | 30 | Pass |
| | | Mid | 2437 | 9.63 | 30 | Pass |
| | | High | 2462 | 9.31 | 30 | Pass |
| | | Low | 2422 | 9.64 | 30 | Pass |
| | | Mid | 2437 | 8.10 | 30 | Pass |
| | | High | 2452 | 8.37 | 30 | Pass |



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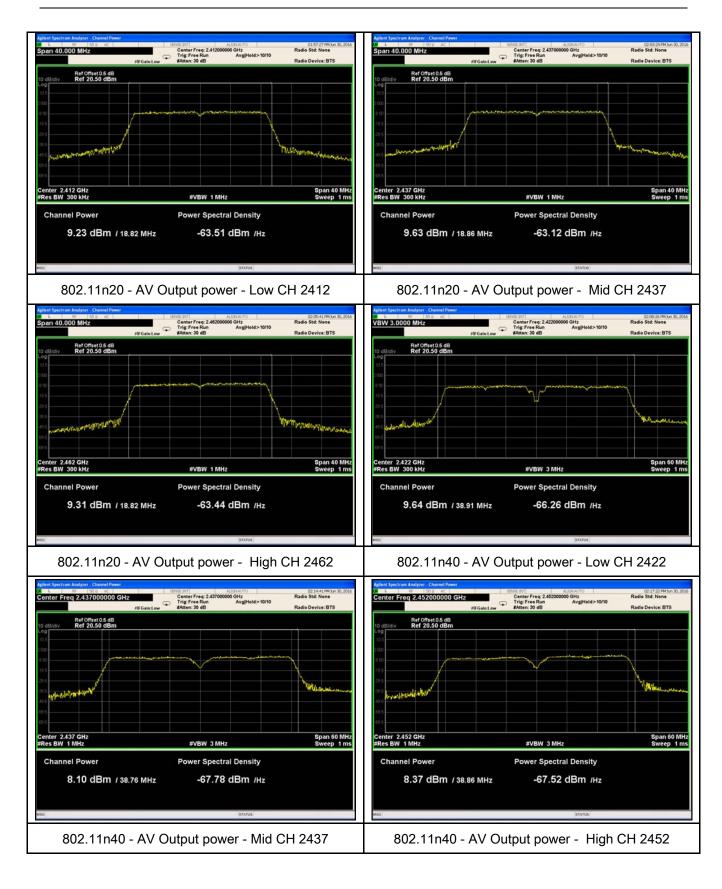
Test Plots





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6.4 Power Spectral Density

| Temperature | 23°C | |
|----------------------|---------------|--|
| Relative Humidity | 54% | |
| Atmospheric Pressure | 1030mbar | |
| Test date : | June 30, 2016 | |
| Tested By : | Loren Luo | |

| Spec | Item | Requirement Ap | | | |
|-------------------|---|--|---|--|--|
| §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. | 2 | | |
| Test Setup | | | | | |
| Test Procedure | 558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method power 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 amplitude level within the RBW. j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat. | | | | |
| Remark | _ | | | | |
| Result | Pass Fail | | | | |



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

Power Spectral Density measurement result

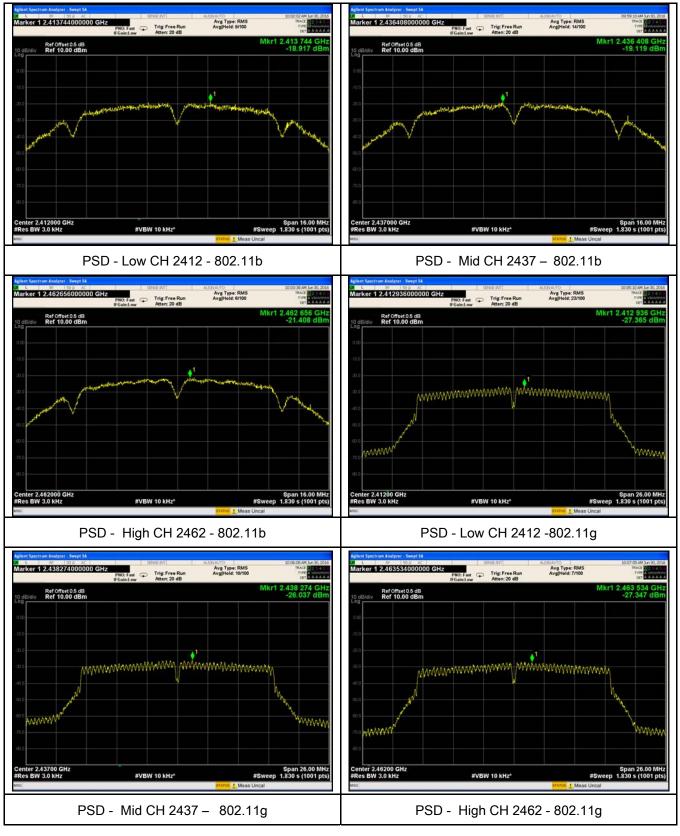
| Туре | Test mode | СН | Freq (MHz) | PSD (dBm) | Limit (dBm) | Result |
|------|-----------|------|---------------|--------------|----------------|--------|
| | | Low | 2412 | -18.917 | 8 | Pass |
| | 802.11b | Mid | 2437 | -19.119 | 8 | Pass |
| | | High | 2462 | -21.408 | 8 | Pass |
| | | Low | 2412 | -27.365 | 8 | Pass |
| | 802.11g | Mid | 2437 | -26.037 | 8 | Pass |
| PSD | | High | 2462 | -27.347 | 8 | Pass |
| F3D | 802.11n | Low | 2412 | -24.295 | 8 | Pass |
| | (20M) | Mid | 2437 | -23.670 | 8 | Pass |
| | | High | 2462 | -22.764 | 8 | Pass |
| | 802.11n | Low | 2422 | -29.687 | 8 | Pass |
| | | Mid | 2437 | -30.001 | 8 | Pass |
| | (40M) | High | 2452 | -29.599 | 8 | Pass |



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Test Plots

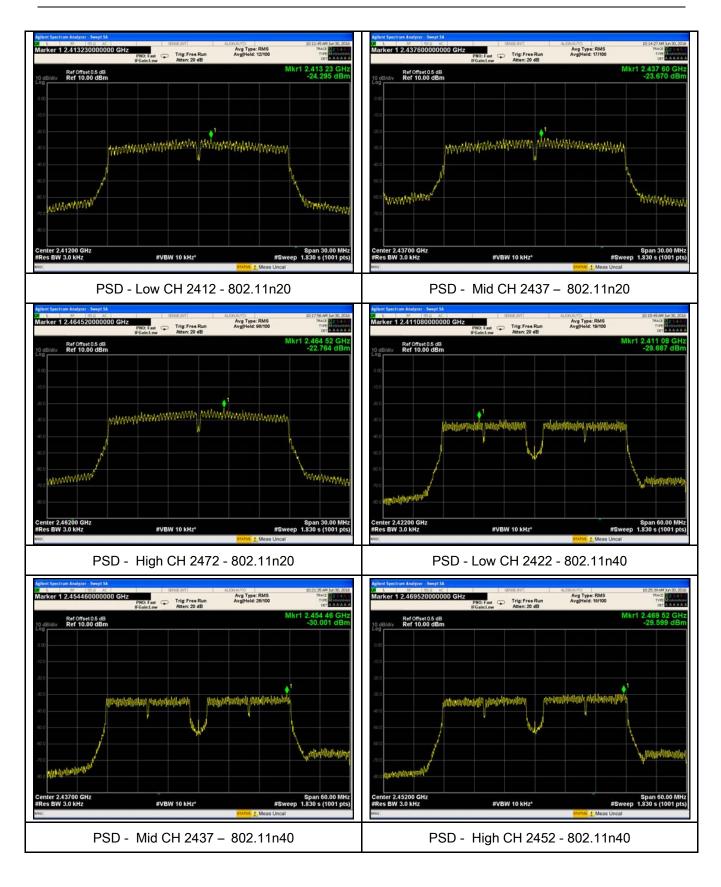
Power Spectral Density measurement result





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

| Temperature | 23°C | |
|----------------------|---------------|--|
| Relative Humidity | 54% | |
| Atmospheric Pressure | 1030mbar | |
| Test date : | June 30, 2016 | |
| Tested By : | Loren Luo | |

Requirement(s):

| Spec | Item | Item Requirement | | |
|-------------------|---|------------------|--|--|
| §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. | | | |
| Test Setup | FUT& 3m Support Units 3m 0.8/1.5m Turn Table Ground Plane Test Receiver | | | |
| Test Procedure | Radiated Method Only 1. Check the calibration of the measuring instrument using either an calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. the Rotated table and turn on the EUT and make it operate in transn mode. Then set it to Low Channel and High Channel within its opera 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 |
| | res IN/A es (See below) |
| | |

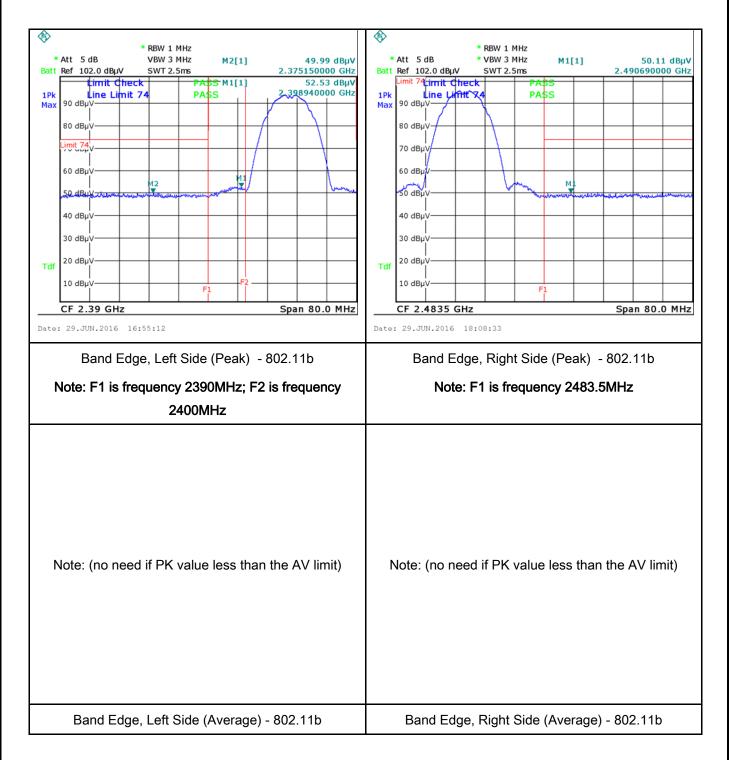


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Test Plots

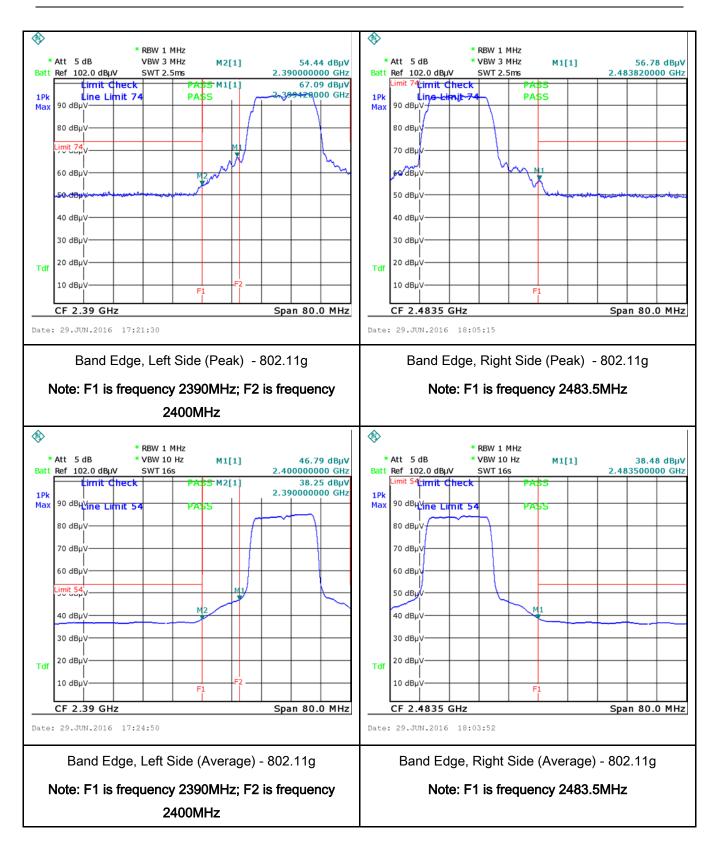
Band Edge measurement result





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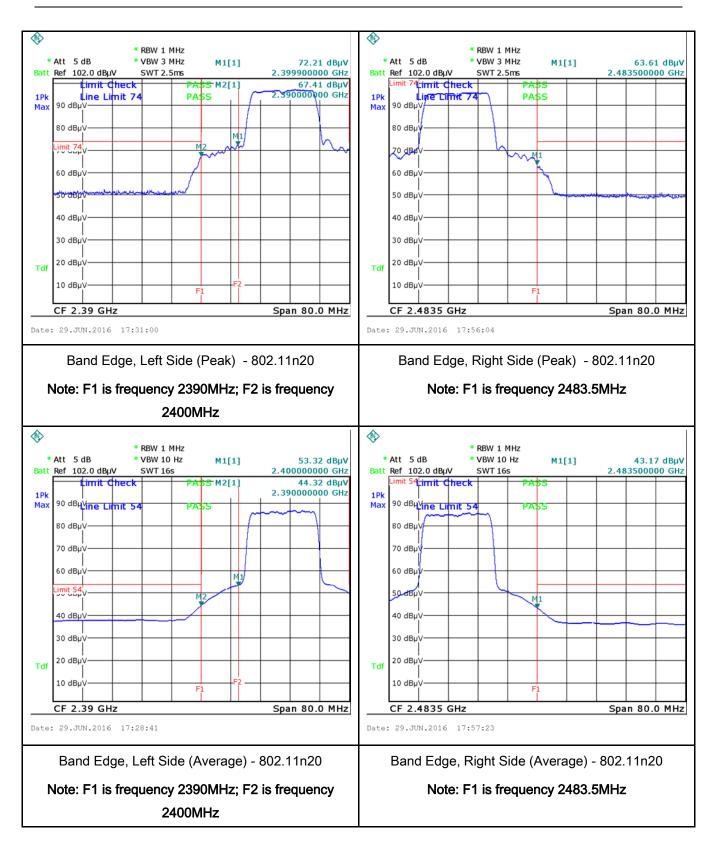
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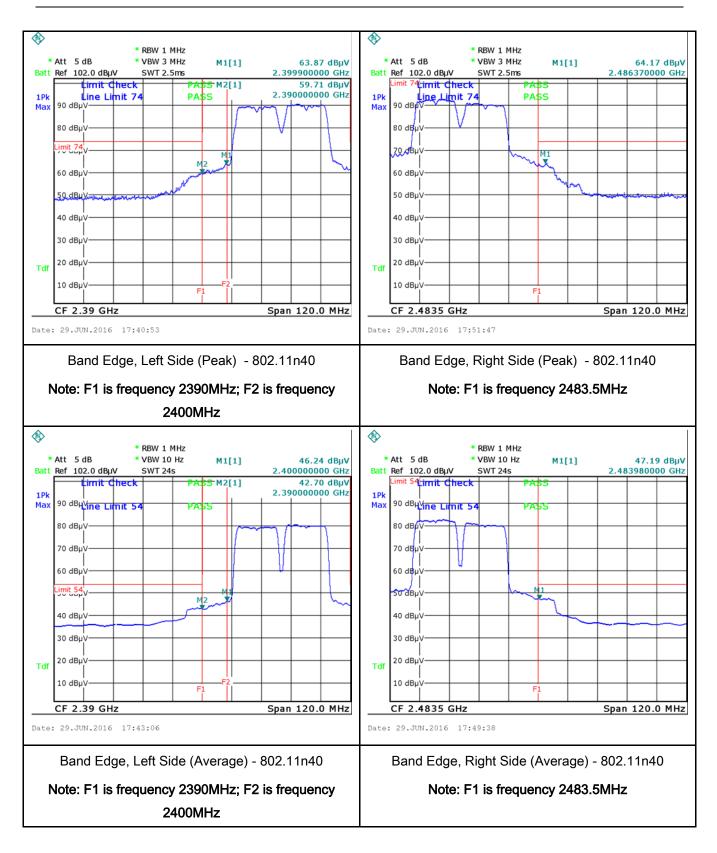
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6.6 AC Power Line Conducted Emissions

| Temperature | 25℃ | |
|----------------------|---------------|--|
| Relative Humidity | 57% | |
| Atmospheric Pressure | 1024mbar | |
| Test date : | June 24, 2016 | |
| Tested By : | Loren Luo | |

Requirement(s):

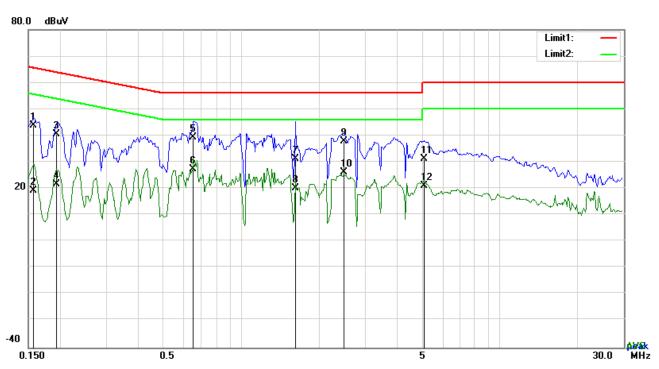
| Spec | Item | Item Requirement | | | |
|---------------------------------------|--|---|--|--|---|
| 47CFR§15. 207, RSS210 (A8.1) | a) | For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto 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 | | | V |
| Test Setup | Vertical Ground Reference Plane UT #0cm UT #0cm UT #0cm #0 | | | | |
| 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 | | | | |

| 1 | | |
|---|------------------------------------|---|
| SIEM | Test Re | eport No. 16070667-FCC-R3 |
| GLOBAL TESTING & C YOUR CHOICE FOR- TOR FO | Page Page | 32 of 55 |
| | coaxial cable. | |
| | 4. All other supporting equipme | nt were powered separately from another main supply. |
| | | a allowed to warm up to its normal operating condition. |
| | 6. A scan was made on the NEI | JTRAL line (for AC mains) or Earth line (for DC power) |
| | over the required frequency r | ange using an EMI test receiver. |
| | 7. High peaks, relative to the lin | nit 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) | |
| | | |
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Test Mode: **Transmitting Mode**



Test Data

Phase Line Plot at 120Vac, 60Hz

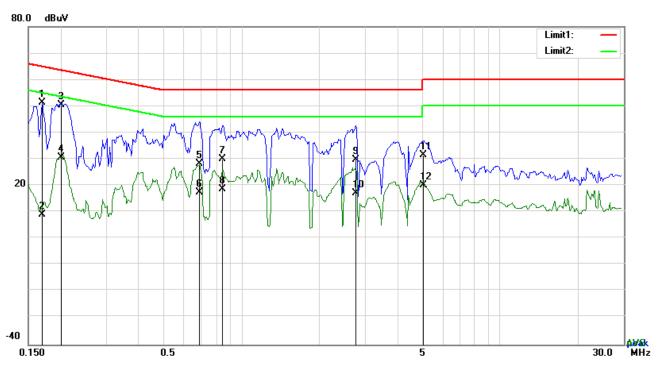
| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1 | L1 | 0.1578 | 33.86 | QP | 10.03 | 43.89 | 65.58 | -21.69 |
| 2 | L1 | 0.1578 | 9.17 | AVG | 10.03 | 19.20 | 55.58 | -36.38 |
| 3 | L1 | 0.1929 | 30.53 | QP | 10.03 | 40.56 | 63.91 | -23.35 |
| 4 | L1 | 0.1929 | 11.63 | AVG | 10.03 | 21.66 | 53.91 | -32.25 |
| 5 | L1 | 0.6531 | 29.21 | QP | 10.03 | 39.24 | 56.00 | -16.76 |
| 6 | L1 | 0.6531 | 17.37 | AVG | 10.03 | 27.40 | 46.00 | -18.60 |
| 7 | L1 | 1.6164 | 21.29 | QP | 10.04 | 31.33 | 56.00 | -24.67 |
| 8 | L1 | 1.6164 | 10.09 | AVG | 10.04 | 20.13 | 46.00 | -25.87 |
| 9 | L1 | 2.4939 | 27.81 | QP | 10.05 | 37.86 | 56.00 | -18.14 |
| 10 | L1 | 2.4939 | 16.20 | AVG | 10.05 | 26.25 | 46.00 | -19.75 |
| 11 | L1 | 5.0709 | 21.23 | QP | 10.08 | 31.31 | 60.00 | -28.69 |
| 12 | L1 | 5.0709 | 10.85 | AVG | 10.08 | 20.93 | 50.00 | -29.07 |



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Test Mode: Transmitting Mode



Test Data

Phase Neutral Plot at 120Vac, 60Hz

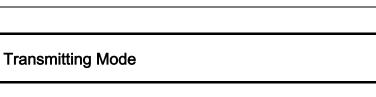
| No. F | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-------|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | F/L | (MHz) | (dBµV) | | (dB) | (dBµV) | (dBµV) | (dB) |
| 1 | Ν | 0.1695 | 41.29 | QP | 10.02 | 51.31 | 64.98 | -13.67 |
| 2 | Ν | 0.1695 | -0.99 | AVG | 10.02 | 9.03 | 54.98 | -45.95 |
| 3 | N | 0.2007 | 40.46 | QP | 10.02 | 50.48 | 63.58 | -13.10 |
| 4 | Ν | 0.2007 | 20.67 | AVG | 10.02 | 30.69 | 53.58 | -22.89 |
| 5 | Ν | 0.6882 | 18.17 | QP | 10.02 | 28.19 | 56.00 | -27.81 |
| 6 | Ν | 0.6882 | 7.58 | AVG | 10.02 | 17.60 | 46.00 | -28.40 |
| 7 | Ν | 0.8481 | 20.08 | QP | 10.03 | 30.11 | 56.00 | -25.89 |
| 8 | Ν | 0.8481 | 8.72 | AVG | 10.03 | 18.75 | 46.00 | -27.25 |
| 9 | Ν | 2.7786 | 19.62 | QP | 10.05 | 29.67 | 56.00 | -26.33 |
| 10 | Ν | 2.7786 | 7.10 | AVG | 10.05 | 17.15 | 46.00 | -28.85 |
| 11 | Ν | 5.0514 | 21.54 | QP | 10.07 | 31.61 | 60.00 | -28.39 |
| 12 | Ν | 5.0514 | 10.05 | AVG | 10.07 | 20.12 | 50.00 | -29.88 |

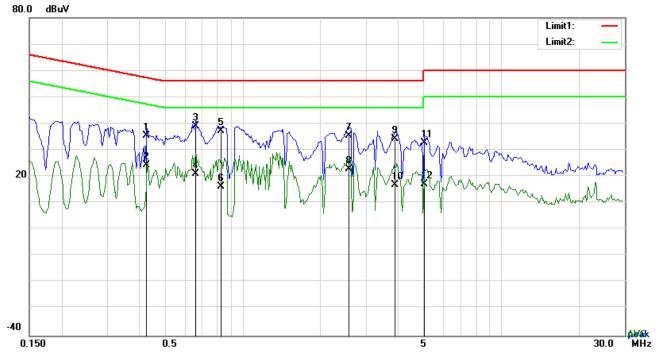


Test Mode:

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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 | 0.4269 | 25.33 | QP | 10.03 | 35.36 | 57.31 | -21.95 |
| 2 | L1 | 0.4269 | 14.47 | AVG | 10.03 | 24.50 | 47.31 | -22.81 |
| 3 | L1 | 0.6609 | 28.98 | QP | 10.03 | 39.01 | 56.00 | -16.99 |
| 4 | L1 | 0.6609 | 11.04 | AVG | 10.03 | 21.07 | 46.00 | -24.93 |
| 5 | L1 | 0.8286 | 27.25 | QP | 10.03 | 37.28 | 56.00 | -18.72 |
| 6 | L1 | 0.8286 | 6.21 | AVG | 10.03 | 16.24 | 46.00 | -29.76 |
| 7 | L1 | 2.5914 | 25.52 | QP | 10.05 | 35.57 | 56.00 | -20.43 |
| 8 | L1 | 2.5914 | 12.76 | AVG | 10.05 | 22.81 | 46.00 | -23.19 |
| 9 | L1 | 3.8814 | 24.12 | QP | 10.07 | 34.19 | 56.00 | -21.81 |
| 10 | L1 | 3.8814 | 6.72 | AVG | 10.07 | 16.79 | 46.00 | -29.21 |
| 11 | L1 | 5.0475 | 22.56 | QP | 10.08 | 32.64 | 60.00 | -27.36 |
| 12 | L1 | 5.0475 | 6.94 | AVG | 10.08 | 17.02 | 50.00 | -32.98 |

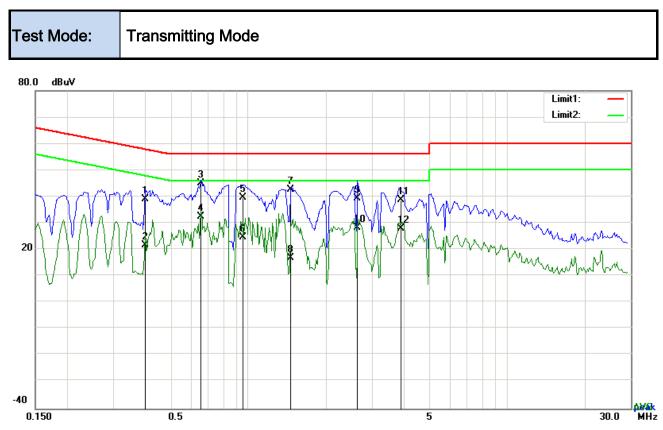


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Test Data

Phase Neutral Plot at 240Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1 | Ν | 0.3996 | 28.97 | QP | 10.02 | 38.99 | 57.86 | -18.87 |
| 2 | Ν | 0.3996 | 11.60 | AVG | 10.02 | 21.62 | 47.86 | -26.24 |
| 3 | Ν | 0.6570 | 35.03 | QP | 10.02 | 45.05 | 56.00 | -10.95 |
| 4 | Ν | 0.6570 | 22.52 | AVG | 10.02 | 32.54 | 46.00 | -13.46 |
| 5 | Ν | 0.9573 | 29.69 | QP | 10.03 | 39.72 | 56.00 | -16.28 |
| 6 | Ν | 0.9573 | 14.57 | AVG | 10.03 | 24.60 | 46.00 | -21.40 |
| 7 | Ν | 1.4487 | 32.55 | QP | 10.03 | 42.58 | 56.00 | -13.42 |
| 8 | Ν | 1.4487 | 6.69 | AVG | 10.03 | 16.72 | 46.00 | -29.28 |
| 9 | Ν | 2.6421 | 29.42 | QP | 10.05 | 39.47 | 56.00 | -16.53 |
| 10 | Ν | 2.6421 | 18.32 | AVG | 10.05 | 28.37 | 46.00 | -17.63 |
| 11 | Ν | 3.8853 | 28.84 | QP | 10.06 | 38.90 | 56.00 | -17.10 |
| 12 | Ν | 3.8853 | 17.75 | AVG | 10.06 | 27.81 | 46.00 | -18.19 |



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6.7 Radiated Spurious Emissions & Restricted Band

| Temperature | 22°C |
|----------------------|---------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1025mbar |
| Test date : | June 25, 2016 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Requirement | | Applicable | | |
|------------------|------|---|-------------------------------|------------|--|--|
| | a) | Except higher limit as specified el emissions from the low-power rac exceed the field strength levels sp the level of any unwanted emission the fundamental emission. The tig edges | × | | | |
| | aj | Frequency range (MHz) | Field Strength (µV/m) | | | |
| | | 30 - 88 | 100 | | | |
| | | 88 - 216 | 150 | | | |
| 47CFR§15. | | 216 960 | 200 | | | |
| 247(d), | | Above 960 | 500 | | | |
| RSS210 (A8.5) | b) | For non-restricted band, In any 10 frequency band in which the spre modulated intentional radiator is of power that is produced by the inte 20 dB or 30dB below that in the 1 band that contains the highest lev determined by the measurement used. Attenuation below the gene is not required 20 dB down 3 | Y | | | |
| | c) | or restricted band, emission must emission limits specified in 15.209 | also comply with the radiated | V | | |



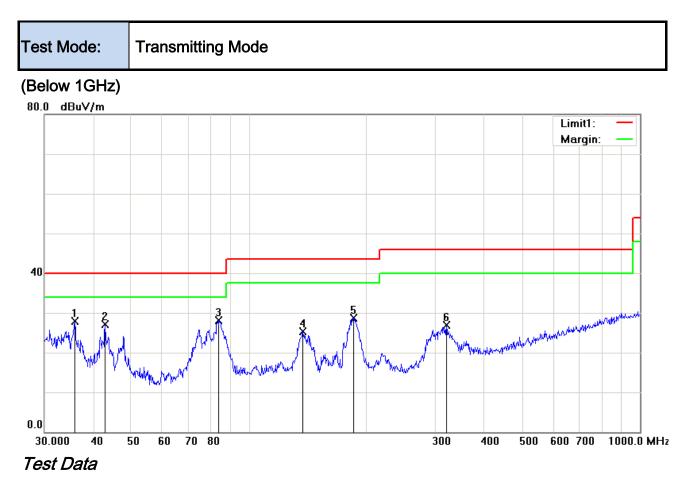
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| Test Setup | Ant. Tower LUT& 3m Support Units 0.8/1.5m Ground Plane Test Receiver |
|------------|--|
| Procedure | The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency 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 10Hz 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 |
| _ | Yes N/A Yes (See below) |



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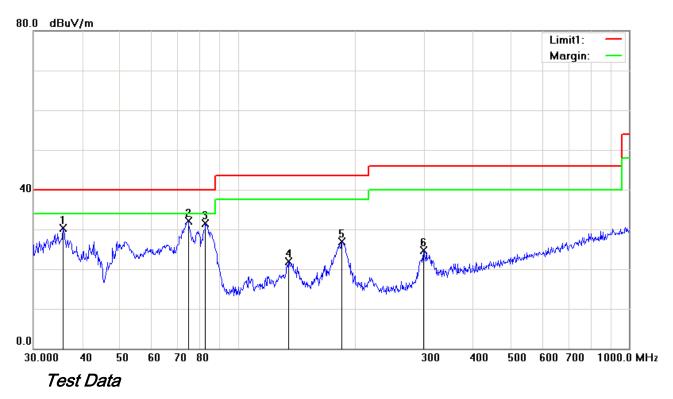


| No | P/L | Frequency (MHz) | Reading (dBµV) | Detec tor | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Height | Degree |
|----|-----|--------------------|-------------------|--------------|-------------------|------------------|-----------------|----------------|--------|--------|
| 1 | н | 35.8747 | 32.42 | peak | -4.58 | 27.84 | 40.00 | -12.16 | 100 | 137 |
| 2 | Н | 42.8998 | 36.54 | peak | -9.53 | 27.01 | 40.00 | -12.99 | 100 | 21 |
| 3 | Н | 83.8156 | 41.74 | peak | -13.56 | 28.18 | 40.00 | -11.82 | 100 | 205 |
| 4 | н | 137.4202 | 33.61 | peak | -8.38 | 25.23 | 43.50 | -18.27 | 100 | 77 |
| 5 | н | 185.1379 | 38.28 | peak | -9.55 | 28.73 | 43.50 | -14.77 | 100 | 107 |
| 6 | н | 319.9370 | 33.27 | peak | -6.32 | 26.95 | 46.00 | -19.05 | 100 | 287 |



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(Below 1GHz)



Horizontal Polarity Plot @3m

| No | P/L | Frequency (MHz) | Reading (dBµV) | Detec tor | Corrected (dB) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height | Degree |
|----|-----|--------------------|-------------------|--------------|-------------------|--------------------|-------------------|----------------|--------|--------|
| 1 | V | 35.7491 | 34.70 | peak | -4.49 | 30.21 | 40.00 | -9.79 | 100 | 304 |
| 2 | V | 74.6569 | 45.84 | peak | -13.73 | 32.11 | 40.00 | -7.89 | 100 | 109 |
| 3 | V | 82.6482 | 45.08 | peak | -13.62 | 31.46 | 40.00 | -8.54 | 100 | 132 |
| 4 | V | 135.0319 | 30.09 | peak | -8.24 | 21.85 | 43.50 | -21.65 | 100 | 19 |
| 5 | V | 184.4898 | 36.57 | peak | -9.59 | 26.98 | 43.50 | -16.52 | 100 | 358 |
| 6 | V | 298.2681 | 31.68 | peak | -6.98 | 24.70 | 46.00 | -21.30 | 100 | 359 |



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|-----------------|-----------------|
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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) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|
| 4844 | 38.95 | AV | V | 33.8 | 6.86 | 32.69 | 46.92 | 54 | -7.08 |
| 4844 | 38.68 | AV | Н | 33.8 | 6.86 | 32.69 | 46.65 | 54 | -7.35 |
| 4844 | 47.22 | PK | V | 33.8 | 6.86 | 32.69 | 55.19 | 74 | -18.81 |
| 4844 | 47.59 | PK | Н | 33.8 | 6.86 | 32.69 | 55.56 | 74 | -18.44 |
| 17907 | 23.51 | AV | V | 45.06 | 11.28 | 32.12 | 47.73 | 54 | -6.27 |
| 17907 | 23.18 | AV | Н | 45.06 | 11.28 | 32.12 | 47.4 | 54 | -6.6 |
| 17907 | 40.43 | PK | V | 45.06 | 11.28 | 32.12 | 64.65 | 74 | -9.35 |
| 17907 | 40.04 | PK | Н | 45.06 | 11.28 | 32.12 | 64.26 | 74 | -9.74 |

Low Channel (2422 MHz)(n40 mode worst case)

Middle Channel (2437 MHz) (n20 mode worst case)

| 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 | 39.12 | AV | V | 33.6 | 6.82 | 32.71 | 46.83 | 54 | -7.17 |
| 4874 | 38.85 | AV | Н | 33.6 | 6.82 | 32.71 | 46.56 | 54 | -7.44 |
| 4874 | 47.48 | PK | V | 33.6 | 6.82 | 32.71 | 55.19 | 74 | -18.81 |
| 4874 | 48.06 | PK | Н | 33.6 | 6.82 | 32.71 | 55.77 | 74 | -18.23 |
| 17915 | 23.41 | AV | V | 45.11 | 11.32 | 32.18 | 47.66 | 54 | -6.34 |
| 17915 | 23.09 | AV | Н | 45.11 | 11.32 | 32.18 | 47.34 | 54 | -6.66 |
| 17915 | 40.14 | PK | V | 45.11 | 11.32 | 32.18 | 64.39 | 74 | -9.61 |
| 17915 | 40.37 | PK | Н | 45.11 | 11.32 | 32.18 | 64.62 | 74 | -9.38 |



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High Channel (2462 MHz) (n20 mode worst case)

| 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 | 38.82 | AV | V | 33.83 | 6.95 | 32.79 | 46.81 | 54 | -7.19 |
| 4924 | 38.77 | AV | Н | 33.83 | 6.95 | 32.79 | 46.76 | 54 | -7.24 |
| 4924 | 47.48 | PK | V | 33.83 | 6.95 | 32.79 | 55.47 | 74 | -18.53 |
| 4924 | 47.52 | PK | Н | 33.83 | 6.95 | 32.79 | 55.51 | 74 | -18.49 |
| 17926 | 23.28 | AV | V | 45.15 | 11.37 | 32.23 | 47.57 | 54 | -6.43 |
| 17926 | 23.61 | AV | Н | 45.15 | 11.37 | 32.23 | 47.9 | 54 | -6.1 |
| 17926 | 40.59 | PK | V | 45.15 | 11.37 | 32.23 | 64.88 | 74 | -9.12 |
| 17926 | 40.14 | PK | Н | 45.15 | 11.37 | 32.23 | 64.43 | 74 | -9.57 |

Note:

1, The testing has been conformed to 10*2462MHz=24,620MHz

2, All other emissions more than 30 dB below the limit

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



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Annex A. TEST INSTRUMENT

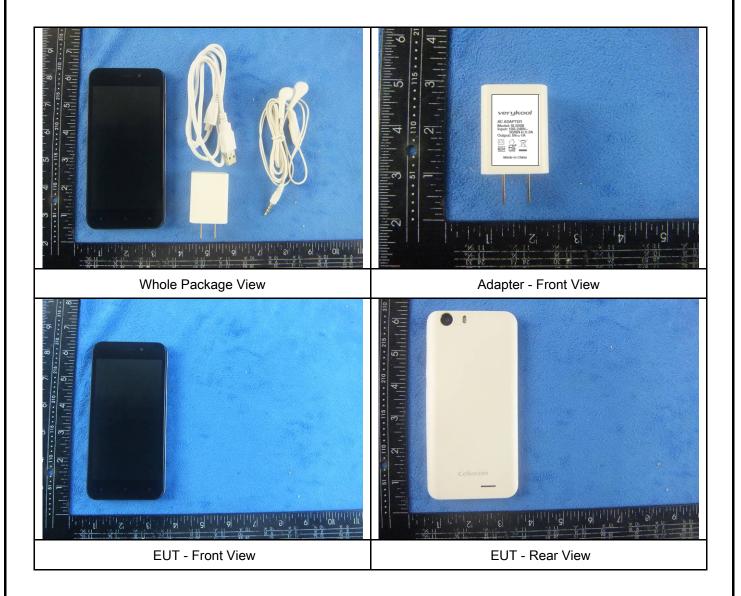
| Instrument | Model | Serial # | Cal Date | Cal Due | In use |
|---|----------|-------------|------------|------------|----------|
| AC Line Conducted | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 09/17/2015 | 09/16/2016 | |
| Line Impedance | LI-125A | 191106 | 09/25/2015 | 09/24/2016 | |
| 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 | V |
| 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 | |
| DC Power Supply | E3640A | MY40004013 | 09/17/2015 | 09/16/2016 | V |
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/17/2015 | 09/16/2016 | |
| Positioning Controller | UC3000 | MF780208282 | 11/19/2015 | 11/18/2016 | • |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 09/01/2015 | 08/31/2016 | V |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/24/2016 | 03/23/2017 | K |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/21/2015 | 09/20/2016 | V |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/24/2015 | 09/23/2016 | < |
| Universal Radio Communication Tester | CMU200 | 121393 | 09/25/2015 | 09/24/2016 | V |



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Annex B. EUT and Test Setup Photographs

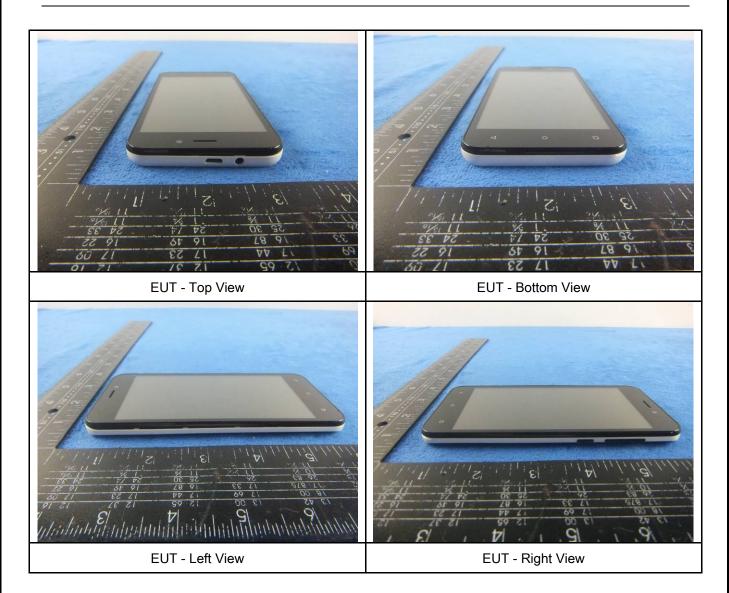
Photograph: EUT External Photo Annex B.i.





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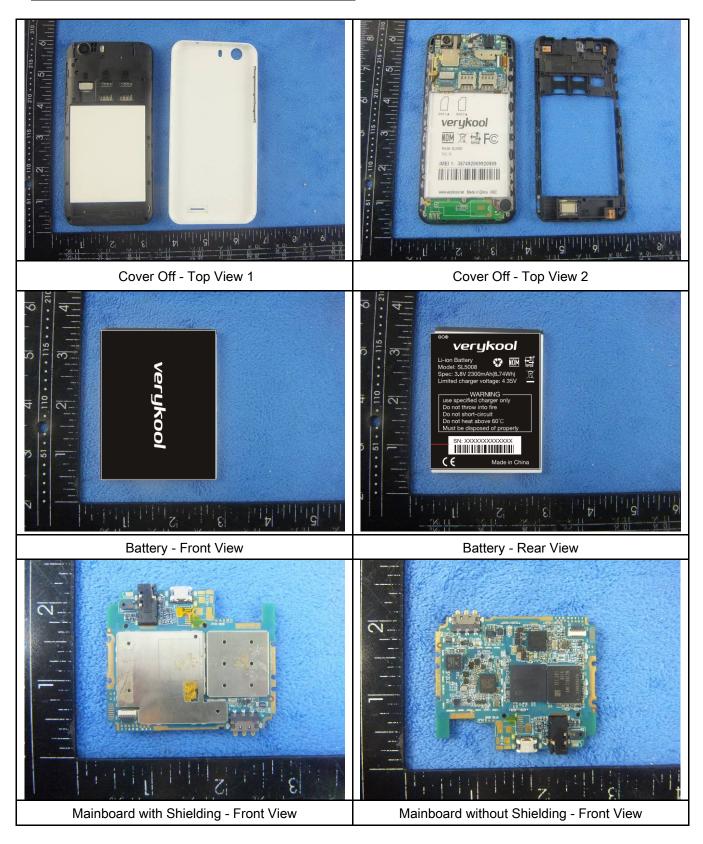
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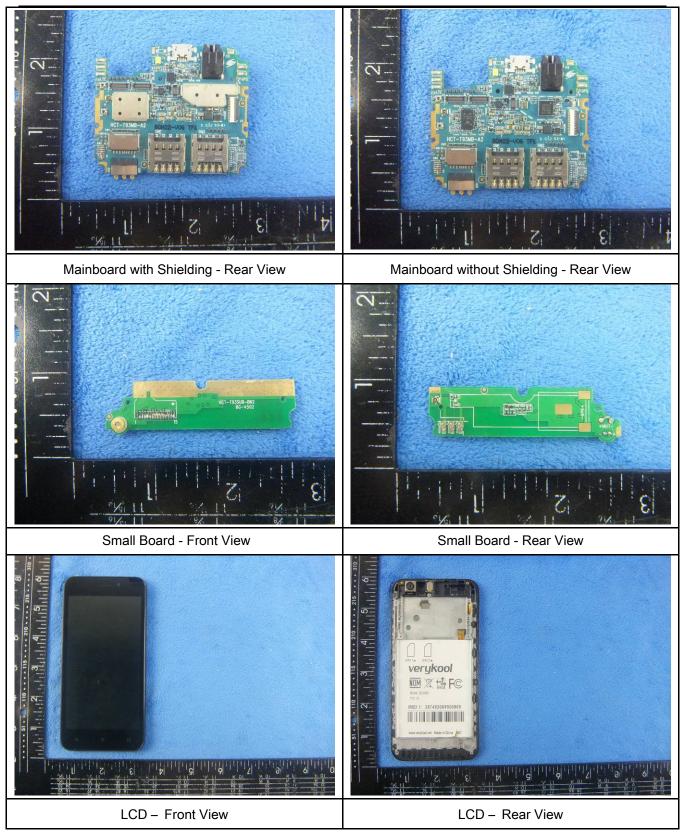
Annex B.ii. Photograph: EUT Internal Photo





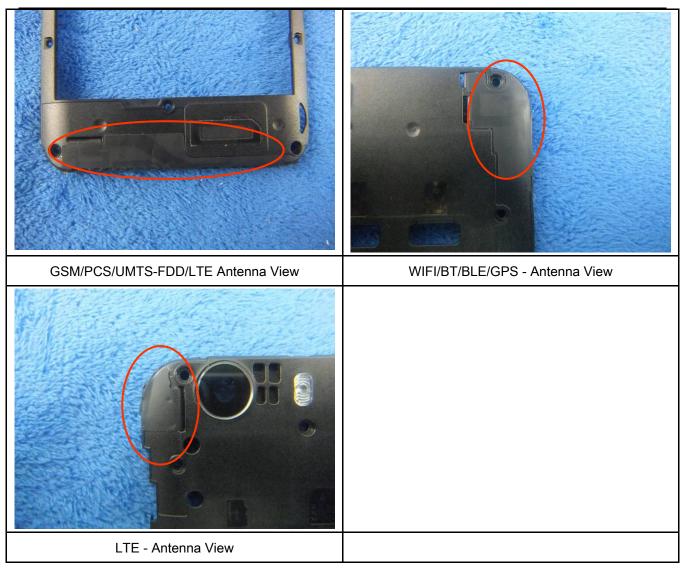
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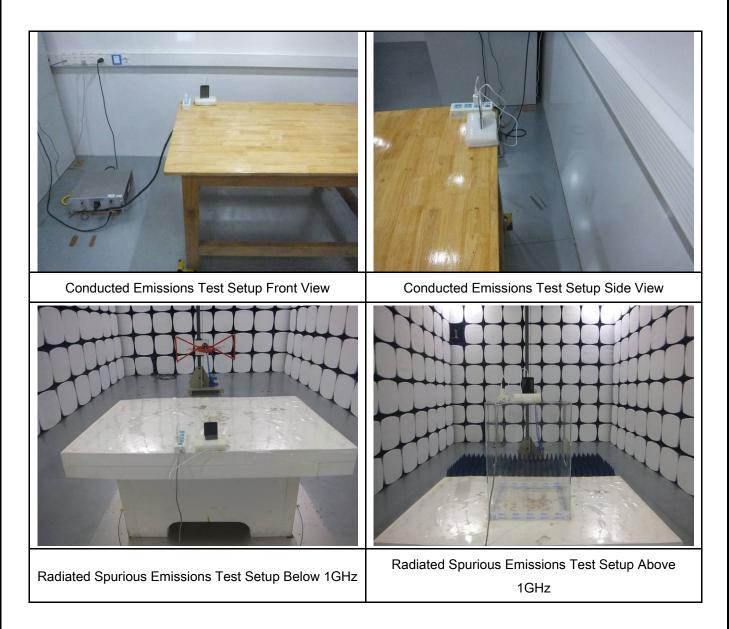
| Test Report No. 16070667-FCC-R3 | | 16070667-FCC-R3 |
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Annex B.iii. Photograph: Test Setup Photo





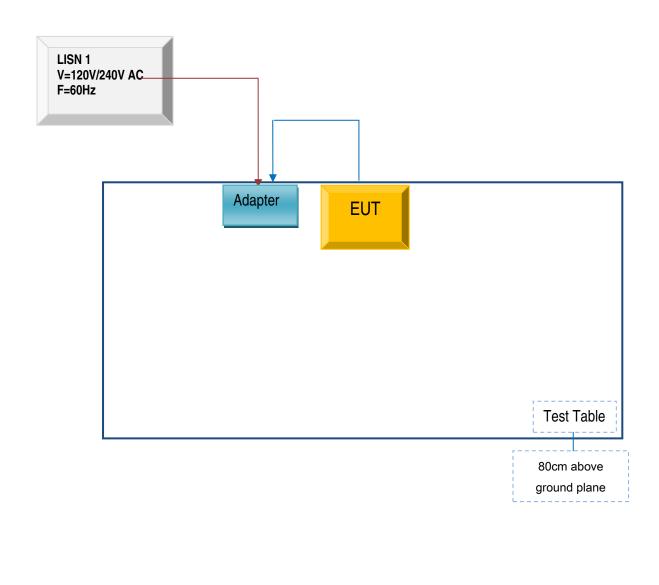
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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

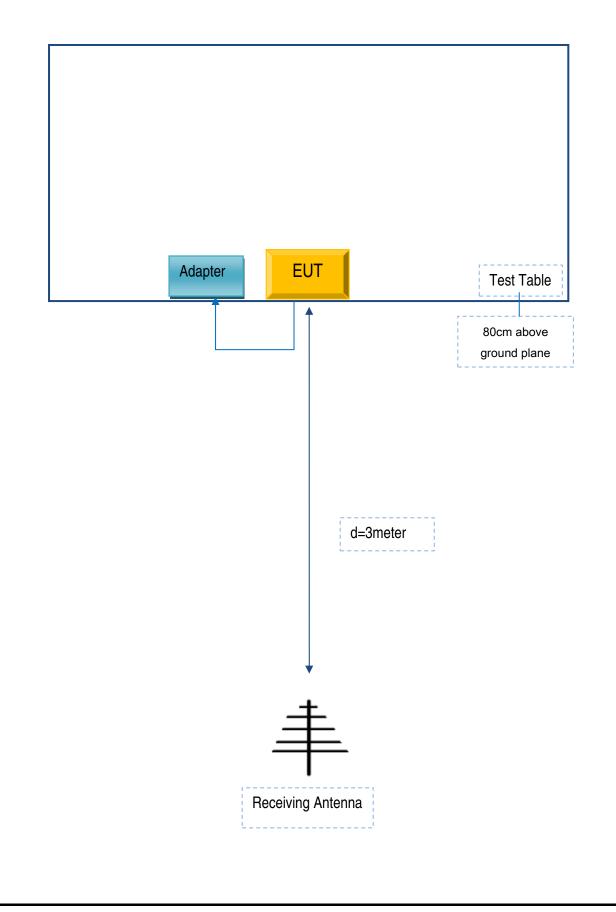
Block Configuration Diagram for AC Line Conducted Emissions





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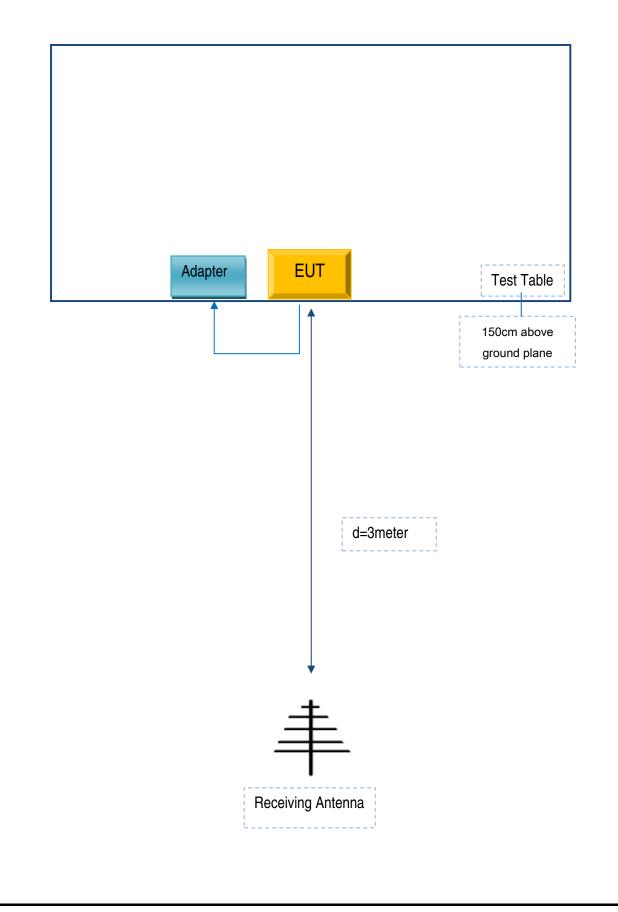
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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





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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.

Supporting Equipment:

| Manufacturer | Equipment Description | Model | Serial No |
|------------------|--------------------------|--------|-----------|
| Verykool USA Inc | Adapter | SL5008 | SL-005 |

Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|------------|--------------|-----------------|--------|-----------|
| USB Cable | Un-shielding | No | 0.8m | SL-005 |



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

Please see attachment



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Annex E. DECLARATION OF SIMILARITY



Declaration Letter

For our business issue and marketing requirement, we would like to make

some change on the model, details are as below:

Model No.:SL5008T and SL5008

We Verykool USA Inc, hereby declare that our product SL5008T and

SL5008 share the same PCB and difference are listed as below:

| Main Model No. | Serial Model No. | Difference |
|----------------|------------------|--|
| SL5008T | SL5008 | The LTE bands of SL5008T are band II, IV V, VII, for SL5008, band VII will be shield by software based on SL5008T. |

Thank you!

Sincerely

Sunny Choi IF PM Director

Signature: Sunny Choi

Job Title: