RF TEST REPORT



Report No.: 15070186-FCC-R3
Supersede Report No.: N/A

| Applicant | ant MOBIWIRE MOBILES (NINGBO) CO.,LTD | | |
|---|--|--|--|
| Product Name | Polaroid a4 | | |
| Model No. | H403 | | |
| Serial No. | N/A | | |
| Test Standard | FCC Part 15.247: 2014, ANSI C63.10: 2013 | | |
| Test Date | April 09 to April 13, 2015 | | |
| Issue Date | May 05, 2015 | | |
| Test Result | Pass Fail | | |
| Equipment complied with the specification | | | |
| Equipment did not comply with the specification | | | |
| Winnie.Zh | any Chris You | | |
| Winnie Zh Test Engir | | | |

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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 |
|-----------------|----------------|-------------|--------------|
| 15070186-FCC-R3 | NONE | Original | May 05, 2015 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

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

3. Test site information

| | T |
|----------------------|---|
| 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: Polaroid a4

Main Model: H403

Serial Model: N/A

Date EUT received: March 24, 2015

Test Date(s): April 09 to April 13, 2015

Equipment Category : DTS

UMTS-FDD Band V/GSM850: 0.5 dBi

PCS1900/UMTS-FDD Band II: 1.5 dBi

Antenna Gain: UMTS-FDD Band IV: 1.5 dBi

Bluetooth/BLE: -1 dBi

WIFI: -1 dBi

GSM / GPRS: GMSK

EGPRS: GMSK, 8PSK

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

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

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

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

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

UMTS-FDD Band II TX:1852.4 \sim 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

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

RX: 2112.4 ~ 2152.6 MHz

WIFI:802.11b/g/n(20M): 2412-2462 MHz WIFI:802.11n(40M): 2422-2452 MHz

Bluetooth& BLE: 2402-2480 MHz



Max. Output Power:

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802.11b: 9.72 dBm

802.11g: 9.76 dBm

802.11n(20M): 9.53 dBm

802.11n(40M): 8.98 dBm

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band II: 277CH

Number of Channels: UMTS-FDD Band IV: 202CH

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

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH

Port: Power Port, Earphone Port, USB Port

Battery:

Model: H403

Spec: 3.7V 1400mAh 5.18Wh

Input Power: Adapter:

Model: A8+500550

Input: AC 100-240V; 50/60Hz 0.2A Max

Output: DC 5.0V; 550mA

Trade Name : Polariod

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

FCC ID: 2ADA4H403



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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/BLE/WIFI, the gain is -1 dBi for Bluetooth/BLE/WIFI. A permanently attached PIFA antenna for GSM and UMTS, the gain is 0.5 dBi for UMTS-FDD Band V/GSM850, 1.5 dBi for UMTS-FDD Band II / PCS1900 and 1.5 dBi UMTS-FDD Band IV

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB&20 dB) Channel Bandwidth

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

| Γ_ | Γ | | <u> </u> | | | |
|----------------|---|---|----------|--|--|--|
| Spec | Item | | | | | |
| § 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. | ~ | | | |
| Test Setup | | Spectrum Analyzer EUT | | | | |
| | 55807 | 4 D01 DTS MEAS Guidance v03r02, 8.1 DTS bandwidth | | | | |
| | 6dB b | andwidth_ | | | | |
| | a) Se | t RBW = 100 kHz. | | | | |
| | b) Set 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 | | | | | |
| restriocedure | 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) | | | | | |
| | 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 | 10.11 | 16.36 | ≥ 0.5 |
| 802.11b | Mid | 2437 | 10.11 | 16.35 | ≥ 0.5 |
| | High | 2462 | 10.11 | 16.36 | ≥ 0.5 |
| | Low | 2412 | 16.39 | 19.32 | ≥ 0.5 |
| 802.11g | Mid | 2437 | 16.40 | 19.10 | ≥ 0.5 |
| | High | 2462 | 16.44 | 19.16 | ≥ 0.5 |
| 000 445 | Low | 2412 | 17.64 | 19.44 | ≥ 0.5 |
| 802.11n | Mid | 2437 | 17.62 | 19.36 | ≥ 0.5 |
| (20M) | High | 2462 | 17.63 | 19.39 | ≥ 0.5 |
| 802.11n (40M) | Low | 2422 | 35.24 | 38.09 | ≥ 0.5 |
| | Mid | 2437 | 35.20 | 38.00 | ≥ 0.5 |
| | High | 2452 | 35.20 | 37.99 | ≥ 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

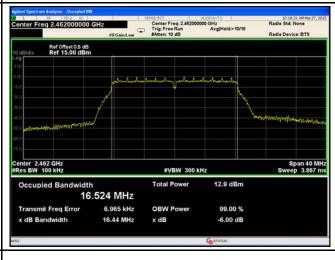
x dB

-6.00 dB

10.11 MHz



802.11g 6dB Bandwidth - Low CH 2412

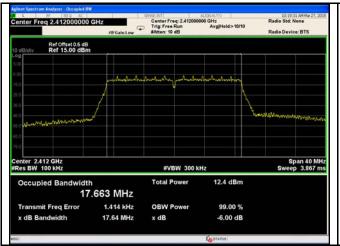


802.11g 6dB Bandwidth - Mid CH 2437

802.11g 6dB Bandwidth - High CH 2462

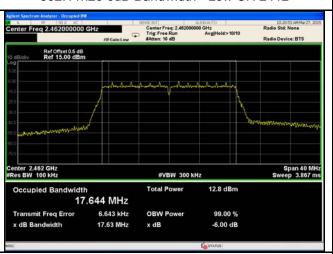


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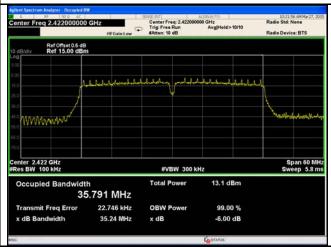




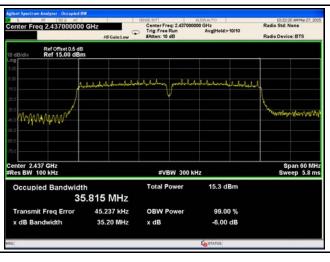
802.11n20 6dB Bandwidth - Low CH 2412



802.11n20 6dB Bandwidth - Mid CH 2437



802.11n20 6dB Bandwidth - High CH 2462



802.11n40 6dB Bandwidth - Low CH 2422



802.11n40 6dB Bandwidth - Mid CH 2437

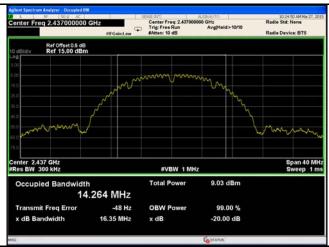
802.11n40 6dB Bandwidth - High CH 2452



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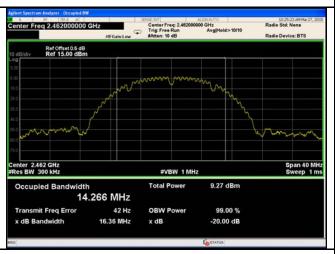
20 dB Bandwidth measurement result

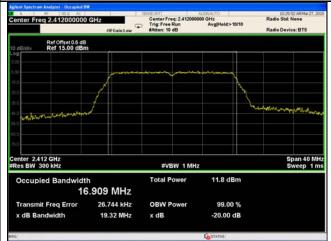




802.11b 20dB Bandwidth - Low CH 2412

802.11b 20dB Bandwidth - Mid CH 2437 enter Freq 2.412000000 GHz

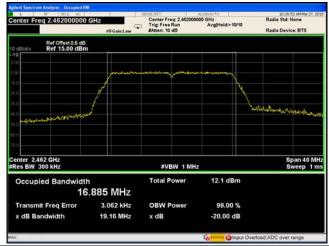




802.11b 20dB Bandwidth - High CH 2462

802.11g 20dB Bandwidth - Low CH 2412



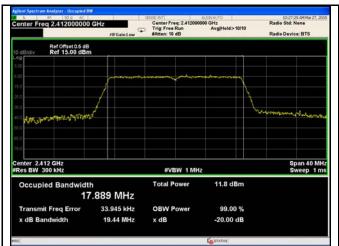


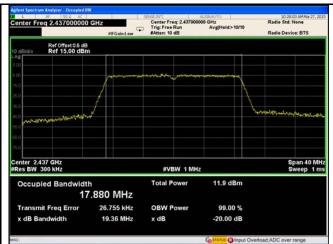
802.11g 20dB Bandwidth - Mid CH 2437

802.11g 20dB Bandwidth - High CH 2462



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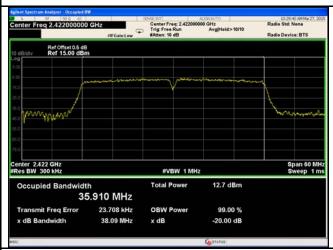




802.11n20 20dB Bandwidth - Low CH 2412

Ref Offset 0.5 dB Ref 15.00 dBm Span 40 MHz Sweep 1 ms Center 2,462 GHz Res BW 300 kHz #VBW 1 MHz Total Power 12.2 dBm Occupied Bandwidth 17.826 MHz 17,546 kHz Transmit Freq Error **OBW Power** 99.00 % 19.39 MHz x dB Bandwidth -20,00 dB x dB

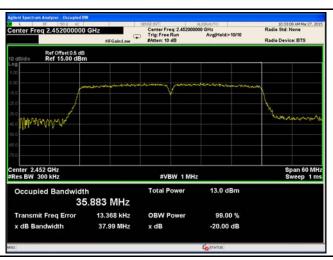
802.11n20 20dB Bandwidth - Mid CH 2437



802.11n20 20dB Bandwidth - High CH 2462



802.11n40 20dB Bandwidth - Low CH 2422



802.11n40 20dB Bandwidth - Mid CH 2437

802.11n40 20dB Bandwidth - High CH 2452



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6.3 Maximum Output Power

| Temperature | 25°C |
|----------------------|----------------|
| Relative Humidity | 53% |
| Atmospheric Pressure | 1014mbar |
| Test date : | April 13, 2015 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Ite | Requirement | Applicable | | |
|-------------------|---|---|------------|--|--|
| Opec | 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),RSS210 | d) | FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt | | | |
| (A8.4) | 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 cor | ntrol level for the entire duration of every sweep. If the EUT transmits |
| | | continuou | ısly (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each |
| | | transmissi | sion is entirely at the maximum power control level, then the trigger shall |
| | | be set to " | " free run". |
| | | - h) Trace a | average at least 100 traces in power averaging (i.e., RMS) mode. |
| | | - i) Comput | te 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 th | he OBW band edges. If the instrument does not have a band power |
| | | function, s | 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 | Yes | | □ _{N/A} |
| Test Plot | Yes (| See below) | □ _{N/A} |

Output Power measurement result

| Туре | Test mode | СН | Freq (MHz) | Conducted Power (dBm) | Limit (dBm) | Result |
|-----------------|------------------|------|------------|-----------------------|----------------|--------|
| | | Low | 2412 | 9.09 | 30 | Pass |
| | 802.11b | Mid | 2437 | 9.38 | 30 | Pass |
| | | High | 2462 | 9.42 | 30 | Pass |
| Output power | 802.11g | Low | 2412 | 9.13 | 30 | Pass |
| | | Mid | 2437 | 9.44 | 30 | Pass |
| | | High | 2462 | 9.36 | 30 | Pass |
| | 802.11n (20M) | Low | 2412 | 8.99 | 30 | Pass |
| | | Mid | 2437 | 9.05 | 30 | Pass |
| | | High | 2462 | 9.53 | 30 | Pass |
| | 802.11n (40M) | Low | 2422 | 8.98 | 30 | Pass |
| | | Mid | 2437 | 8.35 | 30 | Pass |
| | | High | 2452 | 8.51 | 30 | Pass |



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Test Plots

The Average Power





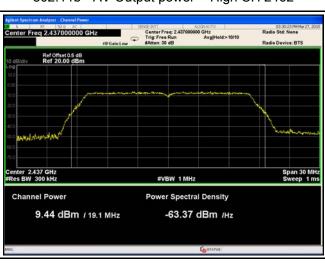
802.11b - AV Output power - Low CH 2412



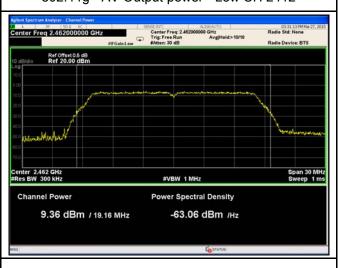
802.11b - AV Output power - Mid CH 2437



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

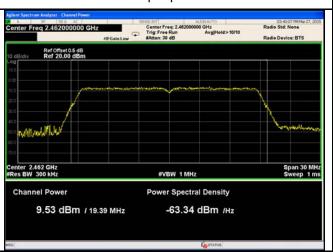


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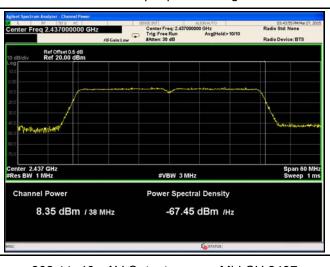
802.11n20 - AV Output power - Low CH 2412



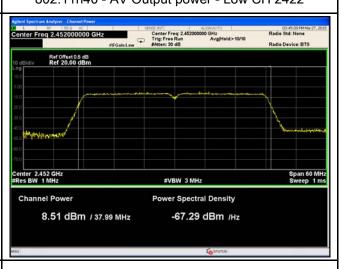
802.11n20 - AV Output power - Mid CH 2437



802.11n20 - AV Output power - High CH 2462



802.11n40 - AV Output power - Low CH 2422



802.11n40 - AV Output power - Mid CH 2437

802.11n40 - AV Output power - High CH 2452



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6.4 Power Spectral Density

| Temperature | 25°C |
|----------------------|----------------|
| Relative Humidity | 53% |
| Atmospheric Pressure | 1014mbar |
| Test date : | April 13, 2015 |
| Tested By : | Winnie Zhang |

| Spec | Item | Requirement | Applicable |
|------------|---|---|------------|
| | | The power spectral density conducted from the | |
| §15.247(e) | a) | intentional radiator to the antenna shall not be greater | V |
| §10.247(C) | a) | than 8 dBm in any 3 kHz band during any time | _ |
| | | interval of continuous transmission. | |
| Test Setup | | Spectrum Analyzer EUT | |
| | 558074 D01 DTS MEAS Guidance v03r02, 10.2 power spectral density method | | |
| | powers | spectral density measurement procedure | |
| | - | a) Set analyzer center frequency to DTS channel center frequency | uency. |
| | - | b) Set the span to 1.5 times the DTS bandwidth. | |
| | - | c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. | |
| | - | d) Set the VBW ≥ 3 × RBW. | |
| Test | - | e) Detector = peak. | |
| Procedure | - | f) Sweep time = auto couple. | |
| | - | g) Trace mode = max hold. | |
| | - | h) Allow trace to fully stabilize. | |
| | - | i) Use the peak marker function to determine the maximum a | mplitude |
| | | level within the RBW. | |
| | - | j) If measured value exceeds limit, reduce RBW (no less than | 3 kHz) and |
| | | repeat. | |
| Remark | | | |
| Result | Pas | ss Fail | |



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Test Data

Test Plot

Yes

Yes (See below)

□_{N/A}

Power Spectral Density measurement result

| Туре | Test mode | СН | Freq (MHz) | PSD (dBm) | Limit (dBm) | Result |
|------|------------------|------|------------|--------------|----------------|--------|
| | | Low | 2412 | 0.183 | 8 | Pass |
| | 802.11b | Mid | 2437 | 0.916 | 8 | Pass |
| | | High | 2462 | -0.393 | 8 | Pass |
| | | Low | 2412 | -5.901 | 8 | Pass |
| | 802.11g | Mid | 2437 | -5.018 | 8 | Pass |
| DCD | | High | 2462 | -5.063 | 8 | Pass |
| PSD | 000 445 | Low | 2412 | -5.543 | 8 | Pass |
| | 802.11n (20M) | Mid | 2437 | -4.205 | 8 | Pass |
| | | High | 2462 | -5.078 | 8 | Pass |
| | 802.11n (40M) | Low | 2422 | -6.794 | 8 | Pass |
| | | Mid | 2437 | -4.536 | 8 | Pass |
| | | High | 2452 | -6.154 | 8 | Pass |



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Test Plots

Power Spectral Density measurement result

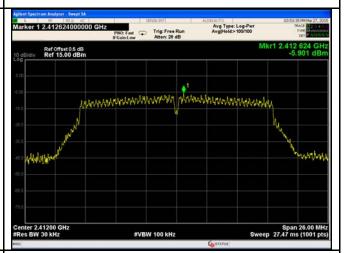




PSD - Low CH 2412 - 802.11b



PSD - Mid CH 2437 - 802.11b



PSD - High CH 2462 - 802.11b



PSD - Low CH 2412 -802.11g

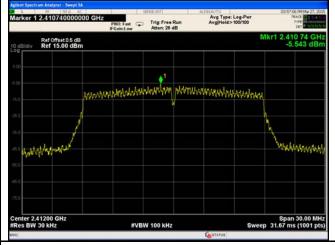


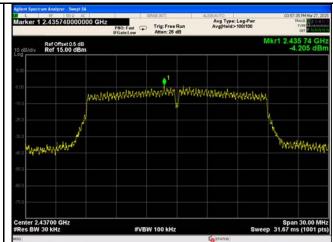
PSD - Mid CH 2437 - 802.11g

PSD - High CH 2462 - 802.11g



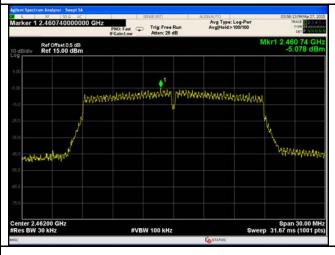
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PSD - Low CH 2412 - 802.11n20

PSD - Mid CH 2437 - 802.11n20





PSD - High CH 2462 - 802.11n20

PSD - Low CH 2422 - 802.11n40





PSD - Mid CH 2437 - 802.11n40

PSD - High CH 2462 - 802.11n40



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

| Temperature | 25°C |
|----------------------|----------------|
| Relative Humidity | 53% |
| Atmospheric Pressure | 1014mbar |
| Test date : | April 13, 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. | | \\ |
| 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. | | |



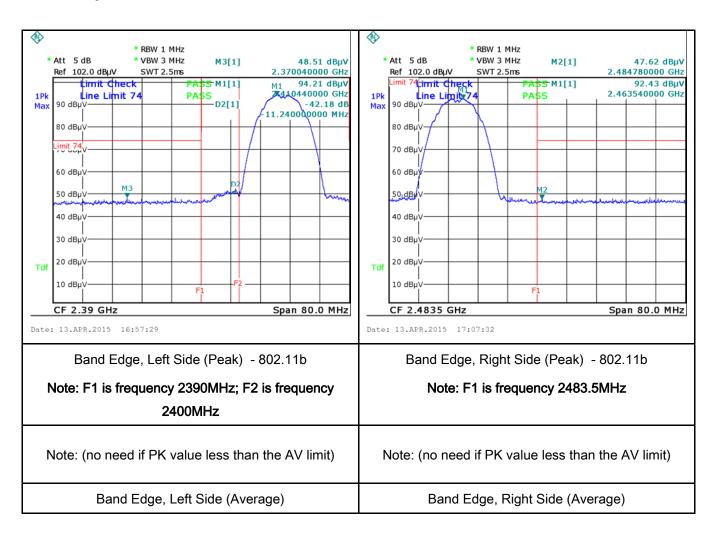
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| | - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a |
|-----------|--|
| | convenient frequency span including 100kHz bandwidth from band edge, |
| | check the emission of EUT, if pass then set Spectrum Analyzer as below: |
| | 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. |
| | S. Repeat above procedures until all measured frequencies were complete. |
| Remark | |
| Result | Pass Fail |
| | · |
| Test Data | Yes N/A |
| Tark Dist | Voc (Coo holou) |
| Test Plot | Yes (See below) |



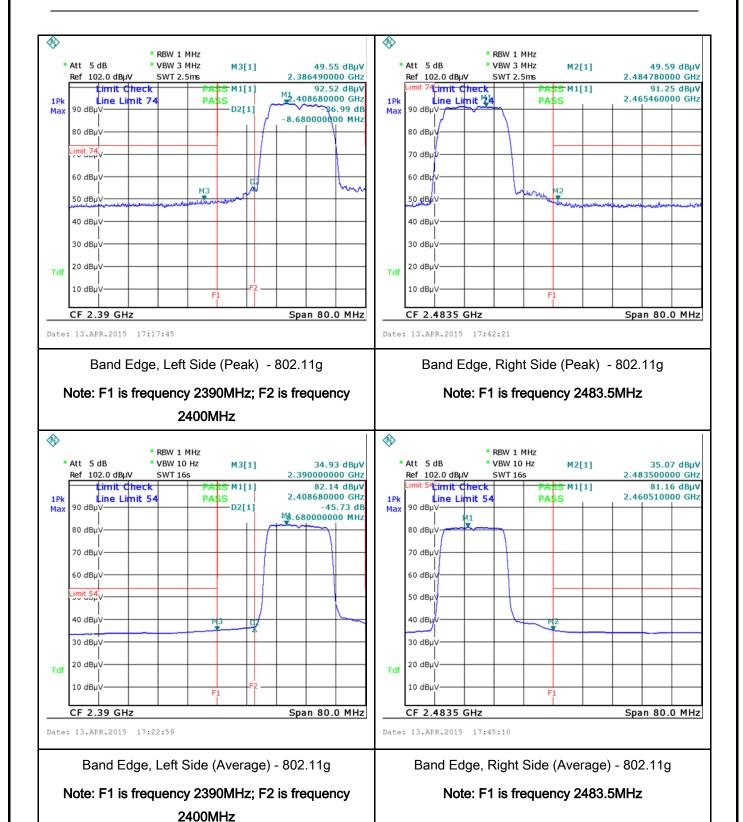
| Test Report No. | 15070186-FCC-R3 |
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Test Plots Band Edge measurement result



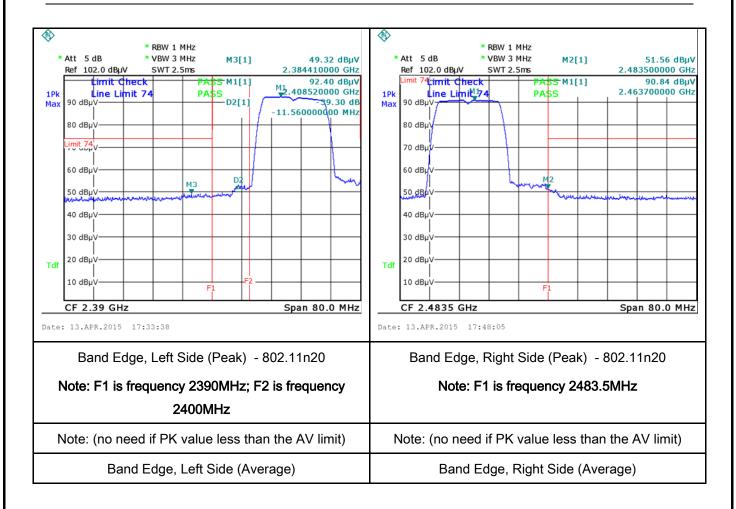


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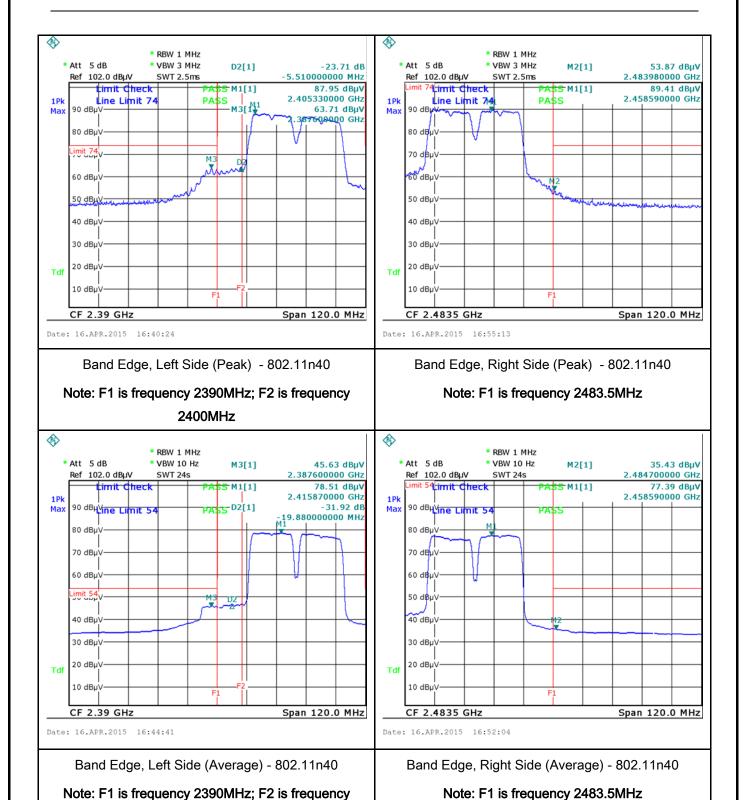
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2400MHz

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6.6 AC Power Line Conducted Emissions

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

Requirement(s):

| Spec | Item | Requirement A | | | | | | |
|-------------------|---|--|--|--------------------------|---------------|--|--|--|
| 47CFR§15. 207, | a) | For Low-power radio-fr connected to the public voltage that is conducte frequency or frequencie not exceed the limits in [mu] H/50 ohms line im | Applicable | | | | | |
| RSS210 | | lower limit applies at th | e boundary between th Limit (| | | | | |
| (A8.1) | | (MHz) | QP | Average | | | | |
| | | 0.15 ~ 0.5 | 66 – 56 | 56 – 46 | | | | |
| | | 0.5 ~ 5 | 56 | 46 | | | | |
| | | 5 ~ 30 60 50 | | | | | | |
| Test Setup | Vertical Ground Reference Plane Boom Horizontal Ground Reference Plane Note: 1. Support units were connected to second LISN. | | | | | | | |
| | 1. The | EUT and supporting eq | r units and other metal pla juipment were set up ir | | guirements of | | | |
| Procedure | the | onnected to | | | | | | |
| | 3. The | e RF OUT of the EUT LIS | SN was connected to the | ne EMI test receiver via | a low-loss | | | |



Test Plot Yes (See below)

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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. | | | | | | |
| | 3. 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 | | | | | | |



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30.0

MHz

Peak Detector Quasi Peak Limit Average Detector Average Limit Imit2:

Test Data

0.5

0.0

Phase Line Plot at 230Vac, 50Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Comment |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|---------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) | |
| 1 | L1 | 0.1812 | 42.53 | QP | 11.29 | 53.82 | 64.43 | -10.61 | |
| 2 | L1 | 0.1812 | 29.92 | AVG | 11.29 | 41.21 | 54.43 | -13.22 | |
| 3 | L1 | 0.2256 | 39.34 | QP | 11.26 | 50.60 | 62.61 | -12.01 | |
| 4 | L1 | 0.2256 | 28.08 | AVG | 11.26 | 39.34 | 52.61 | -13.27 | |
| 5 | L1 | 0.2711 | 35.04 | QP | 11.24 | 46.28 | 61.08 | -14.80 | |
| 6 | L1 | 0.2711 | 25.42 | AVG | 11.24 | 36.66 | 51.08 | -14.42 | |
| 7 | L1 | 0.3183 | 33.53 | QP | 11.22 | 44.75 | 59.75 | -15.00 | |
| 8 | L1 | 0.3183 | 27.02 | AVG | 11.22 | 38.24 | 49.75 | -11.51 | |
| 9 | L1 | 0.3692 | 24.24 | QP | 11.20 | 35.44 | 58.52 | -23.08 | |
| 10 | L1 | 0.3692 | 13.53 | AVG | 11.20 | 24.73 | 48.52 | -23.79 | |
| 11 | L1 | 0.7555 | 28.31 | QP | 11.02 | 39.33 | 56.00 | -16.67 | |
| 12 | L1 | 0.7555 | 20.11 | AVG | 11.02 | 31.13 | 46.00 | -14.87 | |



Test Data

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Phase Neutral Plot at 230Vac, 50Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Comment |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|---------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) | |
| 1 | N | 0.1812 | 55.45 | QP | 0.00 | 55.45 | 64.43 | -8.98 | |
| 2 | N | 0.1812 | 37.37 | AVG | 0.00 | 37.37 | 54.43 | -17.06 | |
| 3 | N | 0.2256 | 52.60 | QP | 0.00 | 52.60 | 62.61 | -10.01 | |
| 4 | N | 0.2256 | 40.90 | AVG | 0.00 | 40.90 | 52.61 | -11.71 | |
| 5 | N | 0.2687 | 49.25 | QP | 0.00 | 49.25 | 61.16 | -11.91 | |
| 6 | N | 0.2687 | 36.30 | AVG | 0.00 | 36.30 | 51.16 | -14.86 | |
| 7 | N | 0.3200 | 49.17 | QP | 0.00 | 49.17 | 59.71 | -10.54 | |
| 8 | N | 0.3200 | 40.11 | AVG | 0.00 | 40.11 | 49.71 | -9.60 | |
| 9 | N | 0.3688 | 42.27 | QP | 0.00 | 42.27 | 58.53 | -16.26 | |
| 10 | N | 0.3688 | 28.67 | AVG | 0.00 | 28.67 | 48.53 | -19.86 | |
| 11 | N | 4.8738 | 44.52 | QP | 0.00 | 44.52 | 56.00 | -11.48 | |
| 12 | N | 4.8738 | 35.65 | AVG | 0.00 | 35.65 | 46.00 | -10.35 | |



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6.7 Radiated Spurious Emissions

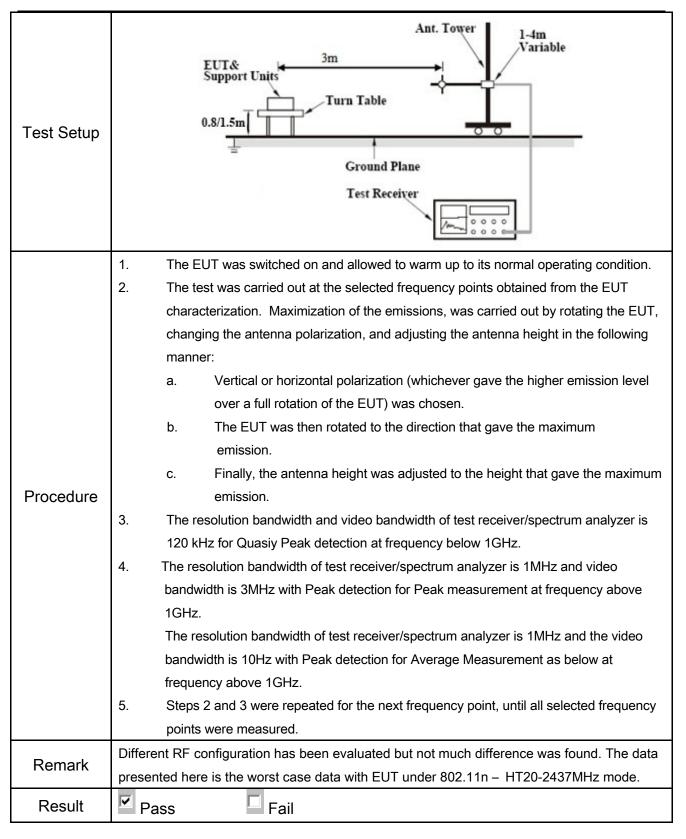
| Temperature | 21°C |
|----------------------|----------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1010mbar |
| Test date : | April 09, 2015 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement | Applicable | | | |
|-----------------------------|----------|--|---------------------------------------|--|--|--|
| F | a) | 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 tight edges | · · · | | | |
| | <u>س</u> | Frequency range (MHz) | Field Strength (µV/m) | | | |
| | | 30 - 88 | 100 | | | |
| | | 88 – 216 | 150 | | | |
| 47CFR§15. | | 216 960 | 200 | | | |
| 247(d), RSS210 (A8.5) | | Above 960 | 500 | | | |
| | 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 20 dB or 30dB below that in the 100 band that contains the highest level determined by the measurement mused. Attenuation below the general is not required | > | | | |
| | C) | or restricted band, emission must a | dB down also comply with the radiated | | | |
| | c) | emission limits specified in 15.209 | | | | |



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



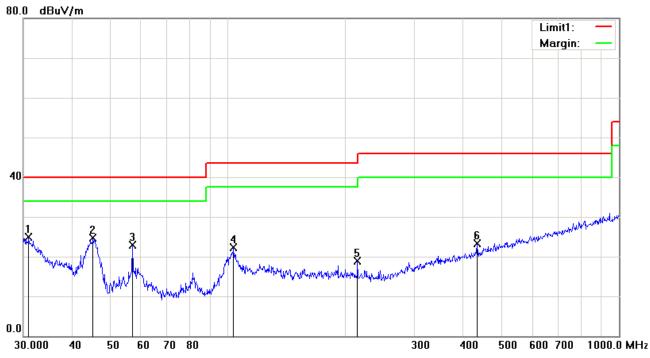
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Test Mode: Transmitting Mode

Below 1GHz

Peak Detector

Quasi Peak Limit



Test Data

Horizontal Polarity Plot @3m

| No. | P/L | Frequency | Readin g | Detector | Corrected | Result | Limit | Margin | Height | Degree | Comme nt |
|-----|-----|-----------|--------------|----------|-----------|--------------|----------|--------|--------|--------|-------------|
| | | (MHz) | (dBuV/ m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () | |
| 1 | Н | 30.9619 | 25.83 | peak | -0.96 | 24.87 | 40.00 | -15.13 | 200 | 19 | |
| 2 | Н | 45.2166 | 25.56 | peak | -0.89 | 24.67 | 40.00 | -15.33 | 200 | 131 | |
| 3 | Н | 56.9912 | 36.87 | peak | -14.00 | 22.87 | 40.00 | -17.13 | 100 | 239 | |
| 4 | Н | 103.4421 | 32.41 | peak | -10.19 | 22.22 | 43.50 | -21.28 | 200 | 161 | |
| 5 | Н | 214.5143 | 27.70 | peak | -8.86 | 18.84 | 43.50 | -24.66 | 100 | 62 | |
| 6 | Н | 434.0651 | 26.76 | peak | -3.47 | 23.29 | 46.00 | -22.71 | 200 | 113 | |



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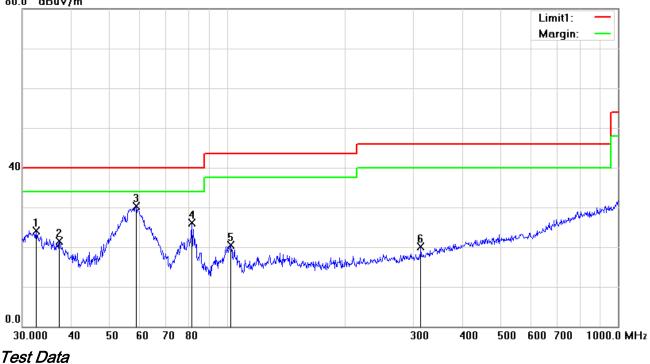
Below 1GHz

Peak Detector



Quasi Peak Limit

80.0 dBuV/m



Vertical Polarity Plot @3m

| | . eraean, erand, r. ee @em | | | | | | | | | | |
|-----|----------------------------|-----------|--------------|----------|-----------|--------------|----------|--------|--------|--------|-------------|
| No. | P/L | Frequency | Readin g | Detector | Corrected | Result | Limit | Margin | Height | Degree | Comme nt |
| | | (MHz) | (dBuV/ m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () | |
| 1 | V | 32.5198 | 26.85 | peak | -2.83 | 24.02 | 40.00 | -15.98 | 100 | 184 | |
| 2 | V | 37.2855 | 27.06 | peak | -5.59 | 21.47 | 40.00 | -18.53 | 100 | 214 | |
| 3 | ٧ | 58.6126 | 44.48 | peak | -14.15 | 30.33 | 40.00 | -9.67 | 100 | 101 | |
| 4 | V | 81.2117 | 39.92 | peak | -13.77 | 26.15 | 40.00 | -13.85 | 147 | 360 | |
| 5 | V | 102.3597 | 31.84 | peak | -11.25 | 20.59 | 43.50 | -22.91 | 100 | 244 | |
| 6 | V | 313.2760 | 26.34 | peak | -6.27 | 20.07 | 46.00 | -25.93 | 114 | 360 | |



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| rest wode. | Test Mode: | Transmitting | Mode |
|------------|------------|--------------|------|
|------------|------------|--------------|------|

(Above 1GHz)

Note: Other modes were verified, only the result of worst case basic rate mode was presented.

Mode: 802.11b

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 | 37.59 | AV | ٧ | 34 | 6.86 | 31.72 | 46.73 | 54 | -7.27 |
| 4824 | 36.26 | AV | Н | 33.8 | 6.86 | 31.72 | 45.20 | 54 | -8.80 |
| 4824 | 46.83 | PK | V | 34 | 6.86 | 31.72 | 55.97 | 74 | -18.03 |
| 4824 | 47.29 | PK | Н | 33.8 | 6.86 | 31.72 | 56.23 | 74 | -17.77 |

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 | 38.96 | AV | ٧ | 33.6 | 6.82 | 31.82 | 47.56 | 54 | -6.44 |
| 4874 | 37.74 | AV | Н | 33.8 | 6.82 | 31.82 | 46.54 | 54 | -7.46 |
| 4874 | 46.44 | PK | V | 33.6 | 6.82 | 31.82 | 55.04 | 74 | -18.96 |
| 4874 | 46.19 | PK | Н | 33.8 | 6.82 | 31.82 | 54.99 | 74 | -19.01 |

High Channel (2462 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) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|
| 4924 | 36.46 | AV | V | 34.6 | 6.76 | 31.92 | 45.90 | 54 | -8.10 |
| 4924 | 37.51 | AV | Н | 34.7 | 6.76 | 31.92 | 47.05 | 54 | -6.95 |
| 4924 | 46.92 | PK | V | 34.6 | 6.76 | 31.92 | 56.36 | 74 | -17.64 |
| 4924 | 47.11 | PK | Н | 34.7 | 6.76 | 31.92 | 56.65 | 74 | -17.35 |



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Annex A. TEST INSTRUMENT

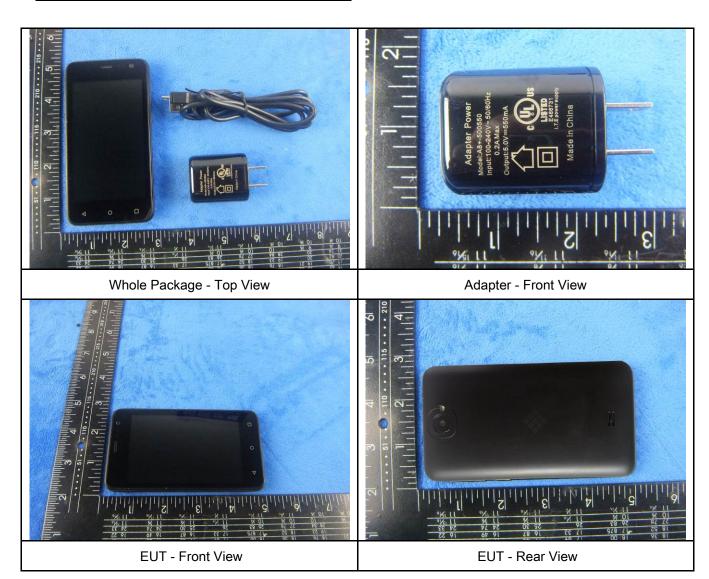
| Instrument | Model | Serial # | Cal Date | Cal Due | In use |
|---|----------|-------------|------------|------------|----------|
| AC Line Conducted | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 09/18/2014 | 09/17/2015 | > |
| Line Impedance | LI-125A | 191106 | 09/26/2014 | 09/25/2015 | • |
| Line Impedance | LI-125A | 191107 | 09/26/2014 | 09/25/2015 | ~ |
| LISN | ISN T800 | 34373 | 09/26/2014 | 09/25/2015 | ~ |
| Double Ridge Horn Antenna (1~18GHz) | AH-118 | 71283 | 09/25/2014 | 09/24/2015 | (|
| Transient Limiter | LIT-153 | 531118 | 09/02/2014 | 09/01/2015 | • |
| RF conducted test | | | | | |
| Agilent ESA-E SERIES | E4407B | MY45108319 | 09/18/2014 | 09/17/2015 | ~ |
| Power Splitter | 1# | 1# | 09/02/2014 | 09/01/2015 | ~ |
| DC Power Supply | E3640A | MY40004013 | 09/18/2014 | 09/17/2015 | ~ |
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/18/2014 | 09/17/2015 | ~ |
| Positioning Controller | UC3000 | MF780208282 | 11/20/2014 | 11/19/2015 | ~ |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 09/02/2014 | 09/01/2015 | • |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 10/04/2015 | 10/04/2016 | (|
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/22/2014 | 09/21/2015 | (|
| Universal Radio Communication Tester | CMU200 | 121393 | 09/26/2014 | 09/25/2015 | V |



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Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





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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

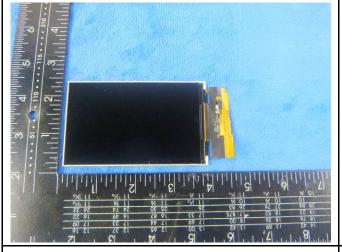
Cover Off - Top View 2





Battery - Top View

Battery - Bottom View



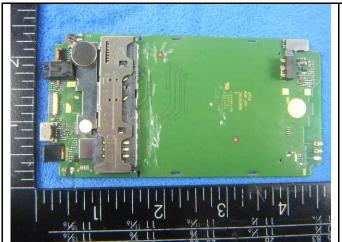


LCD - Front View

LCD - Rear View

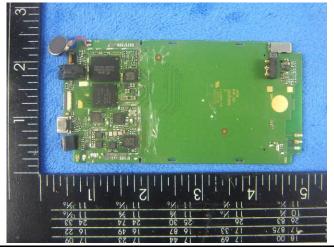


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Mainborad With Shielding - Front View

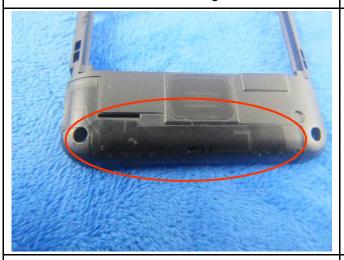
Mainborad - Rear View





Mainborad Without Shielding - Front View

BT/BLE/WIFI Antenna View



GSM/PCS/UMTS-FDD Antenna View

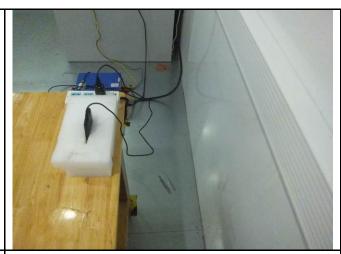


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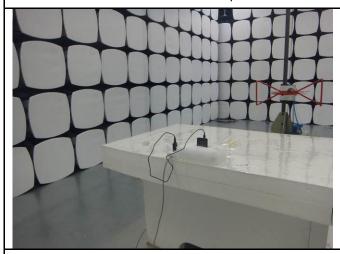
Annex B.iii. Photograph: Test Setup Photo



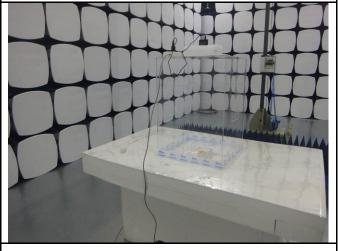
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

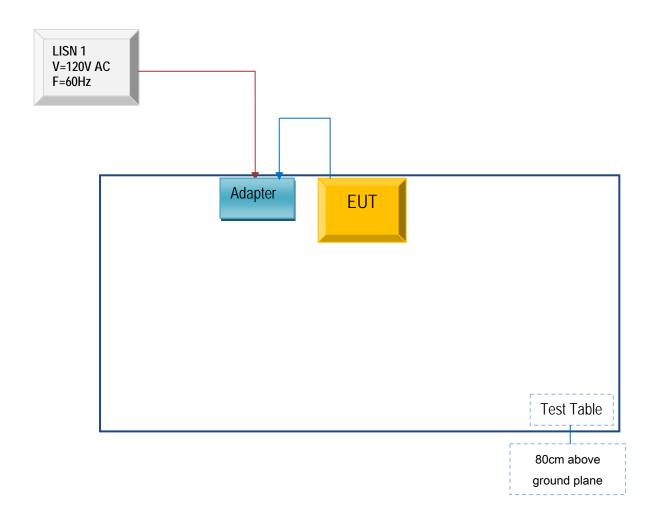


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

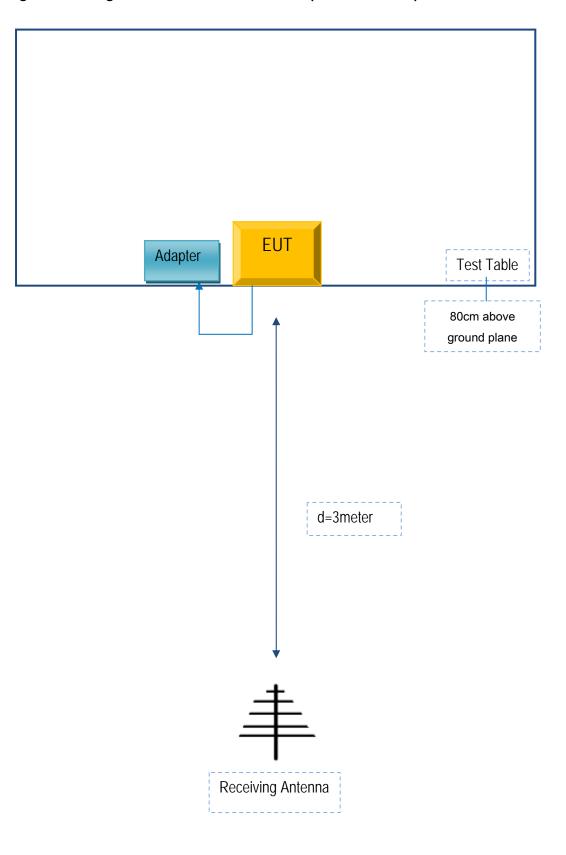
Block Configuration Diagram for AC Line Conducted Emissions





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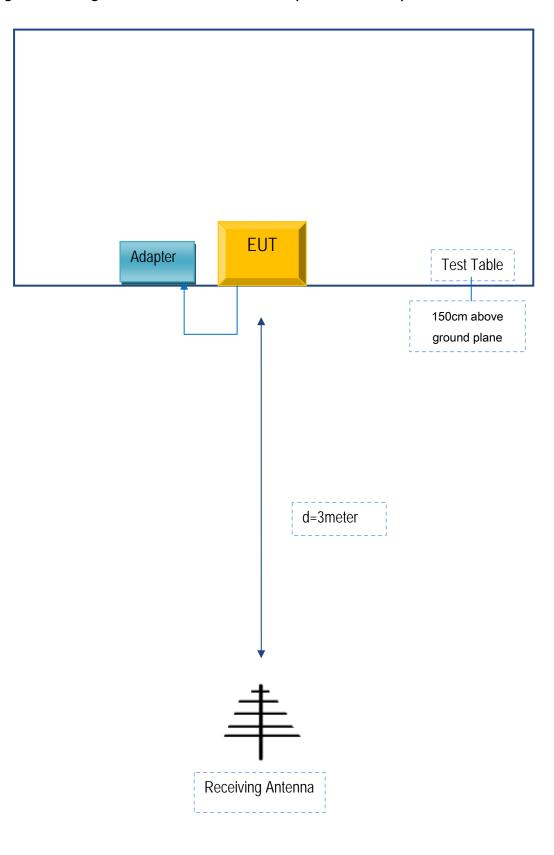
Block Configuration Diagram for Radiated Emission (Below 1GHz) .





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Block Configuration Diagram for Radiated Emission (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