RF TEST REPORT



Report No.: 17071364-FCC-R2

Supersede Report No.: N/A				
Applicant	INFINIX MOBILITY LIMITED			
Product Name	Mobile phone			
Model No.	X573			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2016, ANSI C63.10: 2	013	
Test Date	December	06, 2017 to January 1, 2018		
Issue Date	January 2,	January 2, 2018		
Test Result	Pass	Fail		
Equipment complied with the specification				
Equipment did not comply with the specification				
Aaron Li	ond	David Huang		
Aaron Liang Test Engineer		David Huang Checked By		
This test report may be reproduced in full only				
Test result presented in this test report is applicable to the tested sample only				
Issued by:				

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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



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Laboratories Introduction

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
17071364-FCC-R2	NONE	Original	January 2, 2018

2. Customer information

Applicant Name	INFINIX MOBILITY LIMITED
Applicant Add	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE,
	HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG
	KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Manufacturer Add	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian
	District,Shenzhen,Guangdong,China

3. Test site information

Test Lab A:

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.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0
Test Lab B:	
Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and
	Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMC(ver.lcp-03A1)
	· · · · · · · · · · · · · · · · · · ·



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Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.



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4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
Main Model:	X573
Serial Model:	N/A
Date EUT received:	December 05, 2017
Test Date(s):	December 06, 2017 to January 1, 2018
Equipment Category :	DTS
Antenna Gain:	GSM850: -0.7dBi PCS1900: 1.4dBi UMTS-FDD Band V: -0.7dBi UMTS-FDD Band IV: 1.4dBi UMTS-FDD Band II: 1.4dBi LTE Band II: 1.4dBi LTE Band IV: 1.7dBi LTE Band VII: 1.7dBi Bluetooth/BLE: 1.7dBi WIFI: 1.7dBi GPS: 1.7dBi
Antenna Type:	PIFA Antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK GPS:BPSK
RF Operating Frequency (ies):	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



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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 LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz LTE Band VII 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 802.11b:16.68dBm 802.11g:16.14dBm Max. Output Power: 802.11n(20M):16.78dBm 802.11n(40M):11.68dBm GSM 850: 124CH PCS1900: 299CH UMTS-FDD Band V: 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II: 277CH Number of Channels: WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH Bluetooth: 79CH BLE: 40CH GPS:1CH Port: USB Port, Earphone Port Adapter: Model: A88-502000 Input: AC100-240V~50/60Hz,0.35A Output: DC 5V, 2.0A Input Power: Battery: Model: BL-39GX Spec: 3.85V, 3900mAh/4000mAh, 15.02Wh/15.4Wh Voltage: 4.4V Trade Name : Infinix



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GPRS/EGPRS Multi-slot class

8/10/11/12

FCC ID:

2AIZN-X573



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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 Emissions & Unwanted Emissions	Compliance
§15.247(d)	into Restricted Frequency Bands	Compliance

Measurement Uncertainty

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



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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/WIF/GPS, the gain is 1.7dBi for Bluetooth/BLE/WIFI/GPS.

A permanently attached PIFA antenna for GSM/PCS/UMTS/LTE Band II/IV/VII, the gain is -0.7dBi for GSM850/UMTS-FDD Band V, the gain is 1.4dBi for PCS1900/UMTS-FDD Band II/ UMTS-FDD Band IV/ LTE Band II, the gain is 1.7dBi for LTE Band IV/ LTE Band VII.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB&20 dB) Channel Bandwidth

Temperature	26 °C
Relative Humidity	56%
Atmospheric Pressure	1022mbar
Test date :	December 26, 2017
Tested By :	Aaron Liang

Spec	Item	Item Requirement Applicab			
§ 15.247(a)(2)	a)	~			
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	Z		
Test Setup	Spectrum Analyzer EUT				
	55807	4 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth			
		andwidth			
		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				
restriccedure	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) \geq 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 Fail

Test Data

□_{N/A}

Test Plot

Yes (See below)

Measurement result

₩ Yes

Test mode	СН	Freq (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
	Low	2412	7.186	≥ 0.5
802.11b	Mid	2437	7.592	≥ 0.5
	High	2462	7.610	≥ 0.5
	Low	2412	16.428	≥ 0.5
802.11g	Mid	2437	16.183	≥ 0.5
	High	2462	16.468	≥ 0.5
000 11-	Low	2412	17.666	≥ 0.5
802.11n	Mid	2437	17.264	≥ 0.5
(20M)	High	2462	17.701	≥ 0.5
902.11=	Low	2422	35.354	≥ 0.5
802.11n	Mid	2437	35.439	≥ 0.5
(40M)	High	2452	35.942	≥ 0.5



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Test mode	СН	Freq (MHz)	20dB Bandwidth (MHz)
	Low	2412	13.771
802.11b	Mid	2437	13.177
	High	2462	14.330
	Low	2412	20.188
802.11g	Mid	2437	19.402
	High	2462	19.958
000 11-	Low	2412	20.219
802.11n	Mid	2437	19.937
(20M)	High	2462	20.596
000.11-	Low	2422	40.068
802.11n	Mid	2437	39.422
(40M)	High	2452	40.074

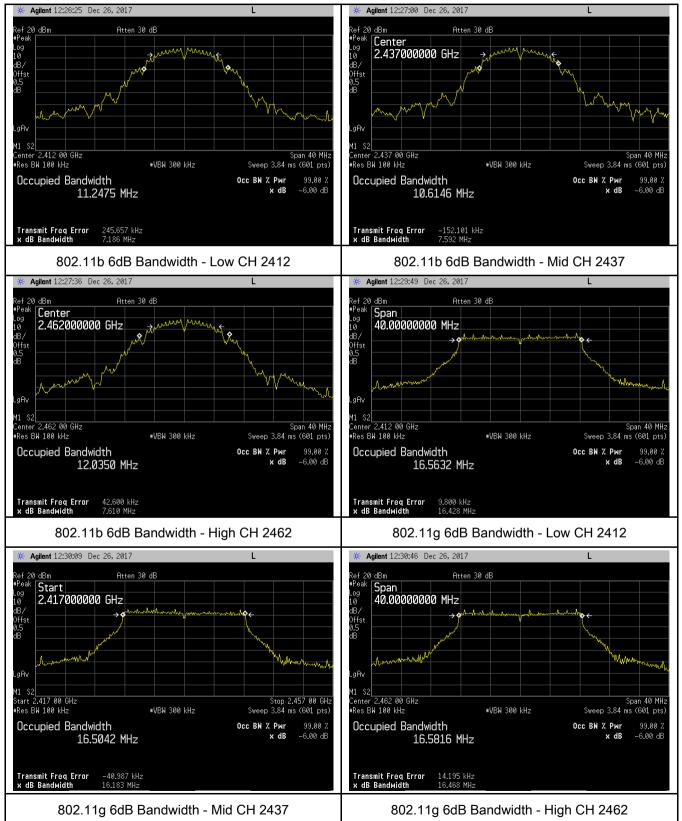


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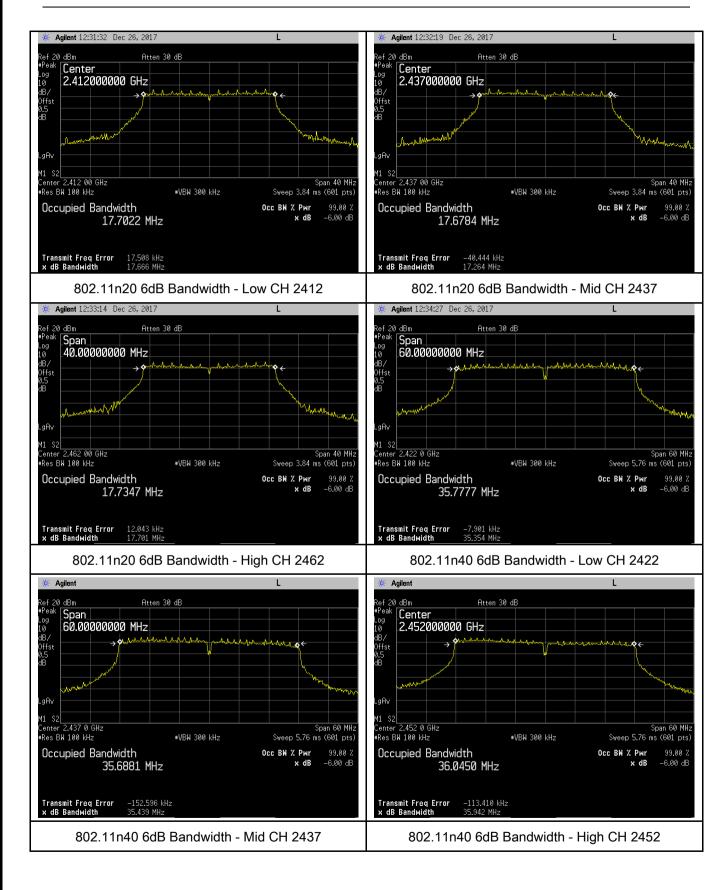
Test Plots

6dB Bandwidth measurement result





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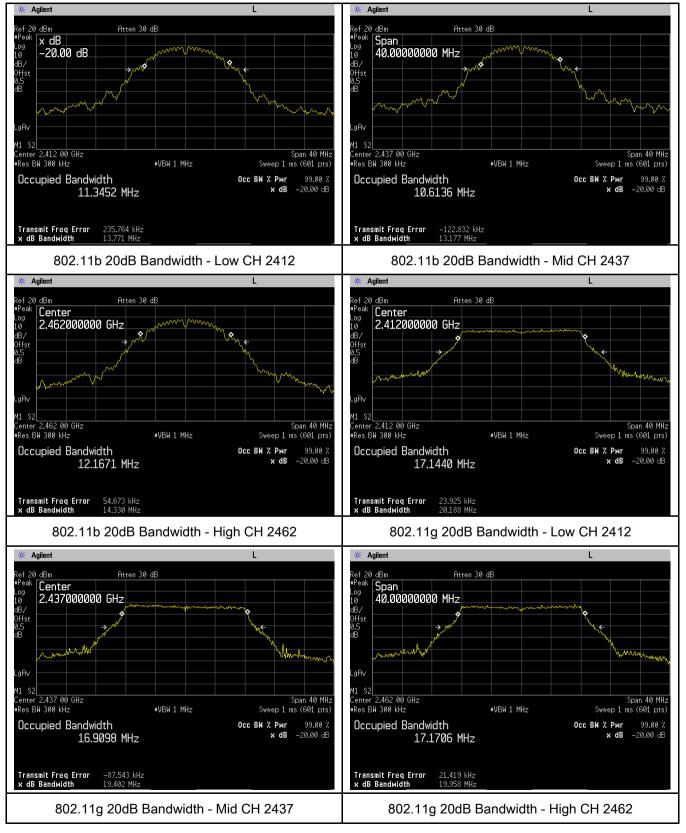




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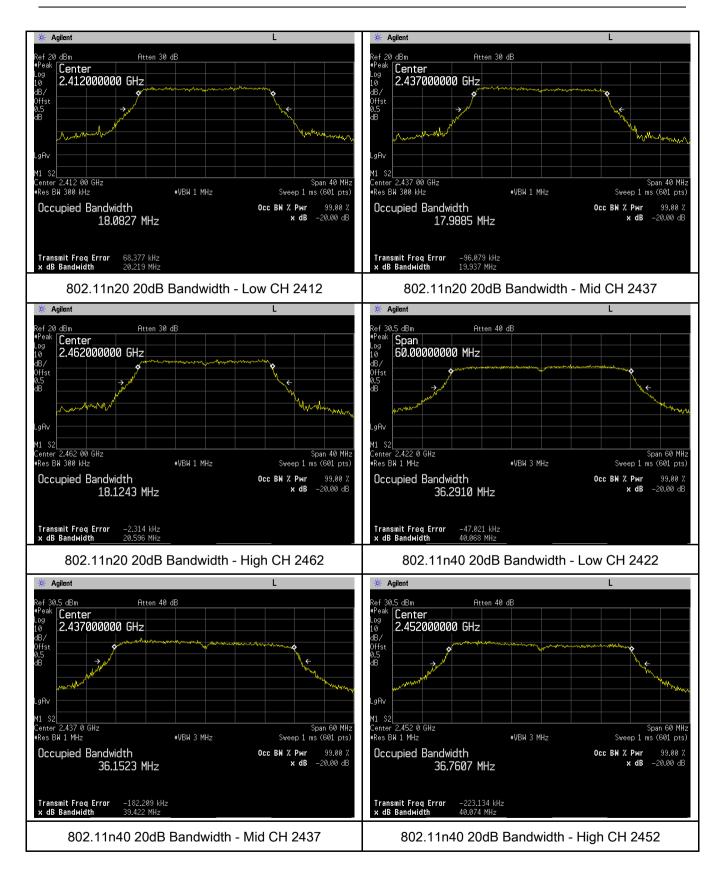
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20 dB Bandwidth measurement result





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6.3 Maximum Output Power

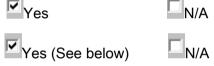
Temperature	26 °C
Relative Humidity	56%
Atmospheric Pressure	1022mbar
Test date :	December 26, 2017
Tested By :	Aaron Liang

Requirement(s):

Spec	Ite	Requirement	Applicable			
0000	m	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 \geq 50 channels: \leq 1 Watt				
(710.4)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25				
		Watt				
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	~			
Test Setup	Spectrum Analyzer EUT					
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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	continuousl transmissio be set to " - h) Trace av - i) Compute using the in equal to the function, su	y (i.e., with no off inf n is entirely at the m free run". erage at least 100 tr power by integrating strument's band p e OBW band edges.	e duration of every sweep. If the EUT transmits tervals) or at duty cycle ≥ 98 %, and if each maximum power control level, then the trigger shall races in power averaging (i.e., RMS) mode. g the spectrum across the OBW of the signal ower measurement function, with band limits set If the instrument does not have a band power els (in power units) at intervals equal to the RBW W of the spectrum.
Remark			
Result	Pass	E Fail	
Test Data	✓ Yes	□ _{N/A}	

Test Plot



Output Power measurement result

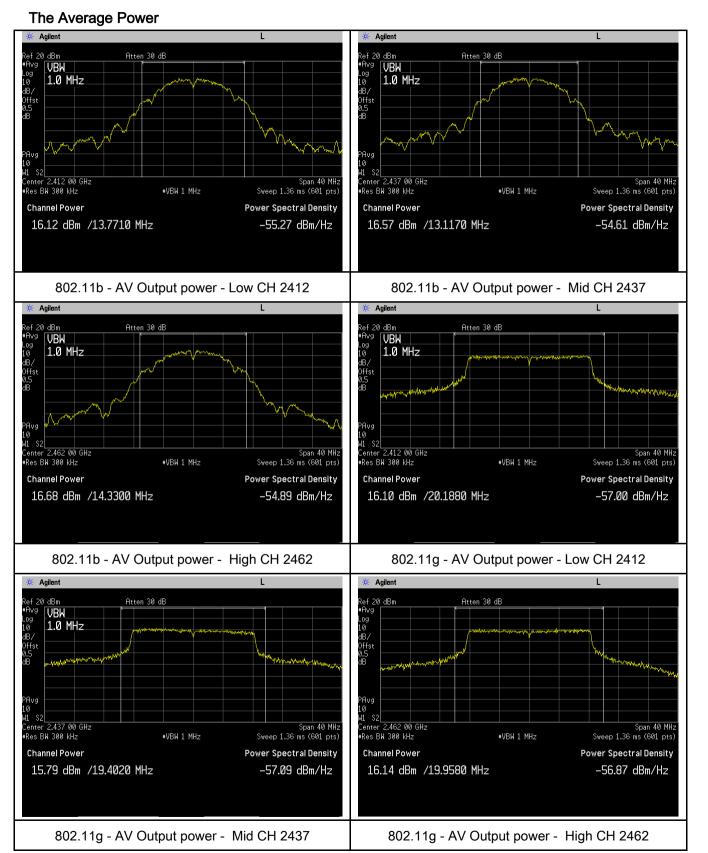
Туре	Test mode	СН	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
		Low	2412	16.12	30	Pass
	802.11b	Mid	2437	16.57	30	Pass
		High	2462	16.68	30	Pass
	802.11g	Low	2412	16.10	30	Pass
		Mid	2437	15.79	30	Pass
Output		High	2462	16.14	30	Pass
power	000.44	Low	2412	16.31	30	Pass
	802.11n	Mid	2437	16.78	30	Pass
	(20M)	High	2462	16.09	30	Pass
		Low	2422	11.58	30	Pass
	802.11n	Mid	2437	11.68	30	Pass
	(40M)	High	2452	11.65	30	Pass



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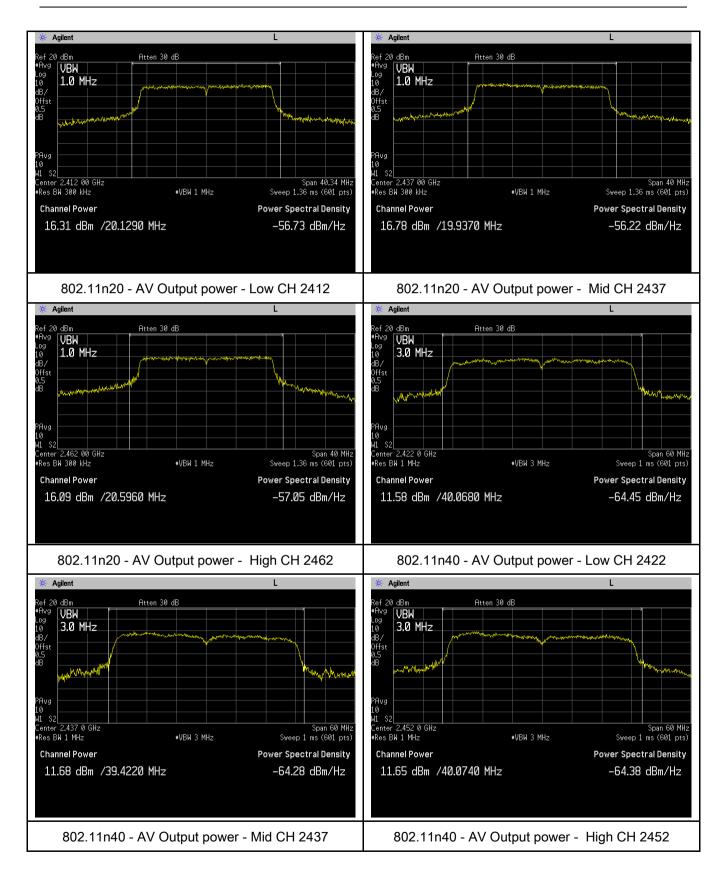
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Test Plots





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6.4 Power Spectral Density

Temperature	26 °C	
Relative Humidity	56%	
Atmospheric Pressure	1022mbar	
Test date :	December 26, 2017	
Tested By :	Aaron Liang	

Spec	Item	Requirement Applicable		
§15.247(e)	a)	V		
Test Setup		Spectrum Analyzer EUT		
Test Procedure	power s - - - - - - - - - - -	 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density measurement procedure a) Set analyzer center frequency to DTS channel center frequeb) 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 at 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	Yes
Test Plot	Yes (See below)

□_{N/A}

Power Spectral Density measurement result

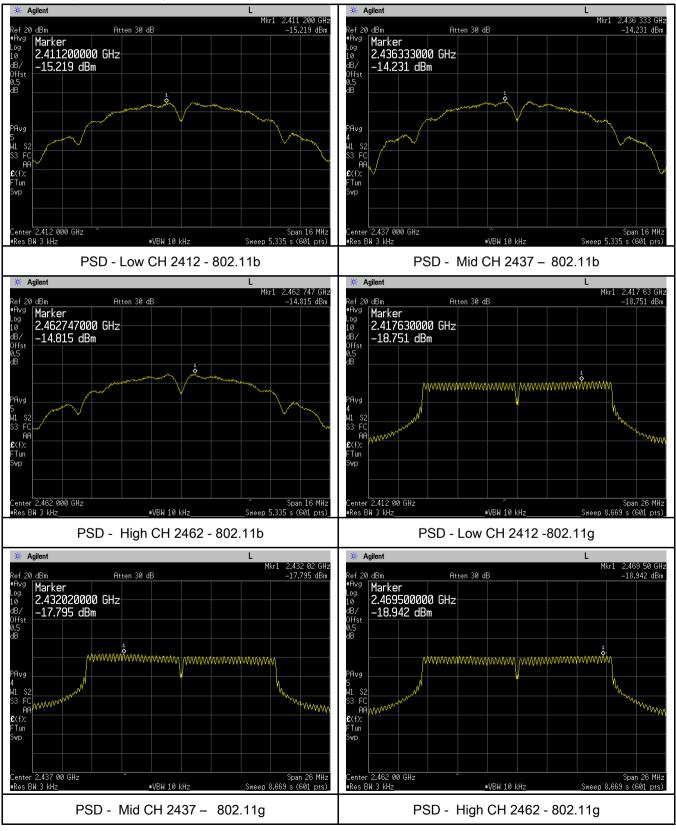
Туре	Test mode	СН	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
		Low	2412	-15.219	8	Pass
	802.11b	Mid	2437	-14.231	8	Pass
		High	2462	-14.815	8	Pass
	802.11g	Low	2412	-18.751	8	Pass
		Mid	2437	-17.795	8	Pass
PSD		High	2462	-18.942	8	Pass
P3D	000 11-	Low	2412	-19.201	8	Pass
	802.11n (20M)	Mid	2437	-18.182	8	Pass
		High	2462	-19.224	8	Pass
	802.11n (40M)	Low	2422	-25.000	8	Pass
		Mid	2437	-25.457	8	Pass
		High	2452	-25.030	8	Pass



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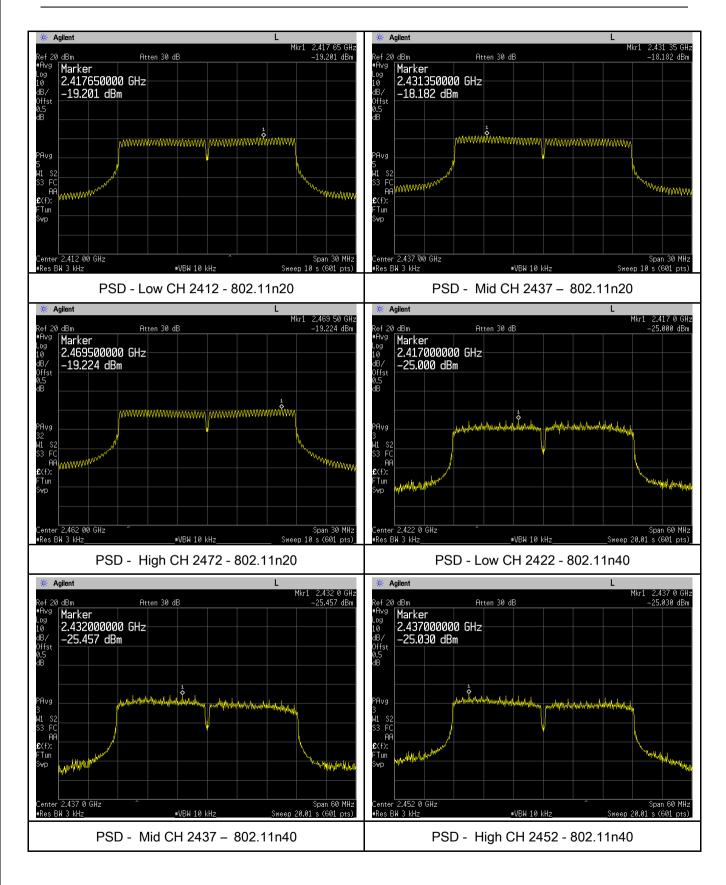
Test Plots

Power Spectral Density measurement result





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	25 °C	
Relative Humidity	57%	
Atmospheric Pressure	1023mbar	
Test date :	December 27, 2017	
Tested By :	Aaron Liang	

Requirement(s):

Spec	Item	Item Requirement Applicable		
§15.247(d)	a)	 In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB a) 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 LuT& 3m Support Units 0.8/1.5m Ground Plane Test Receiver			
Test Procedure	 Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range. 			

3			
SIF		Test Report No.	17071364-FCC-R2
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	convenient free check the emis a. The resolutio analyzer is 120 b. The resolutio video bandwidt frequency abov c. The resolutio video bandwidt at frequency ab	quency span inclusion of EUT, if particular on bandwidth and the bandwidth of the on bandwidth of the the is 3MHz with Particular on bandwidth of the the is 10Hz with Particular ove 1GHz.	/ of spectrum analyzer to 100 kHz with a uding 100kHz bandwidth from band edge, ass then set Spectrum Analyzer as below: I video bandwidth of test receiver/spectrum Peak detection at frequency below 1GHz. est receiver/spectrum analyzer is 1MHz and eak detection for Peak measurement at est receiver/spectrum analyzer is 1MHz and the ak detection for Average Measurement as below de appearing on spectral display and set it as a with marking the highest point and edge
	- 5. Repeat abov	ve procedures un	til all measured frequencies were complete.
Remark			
Result	Pass	Fail	
Test Data	′es ′es (See below)	N/A N/A	

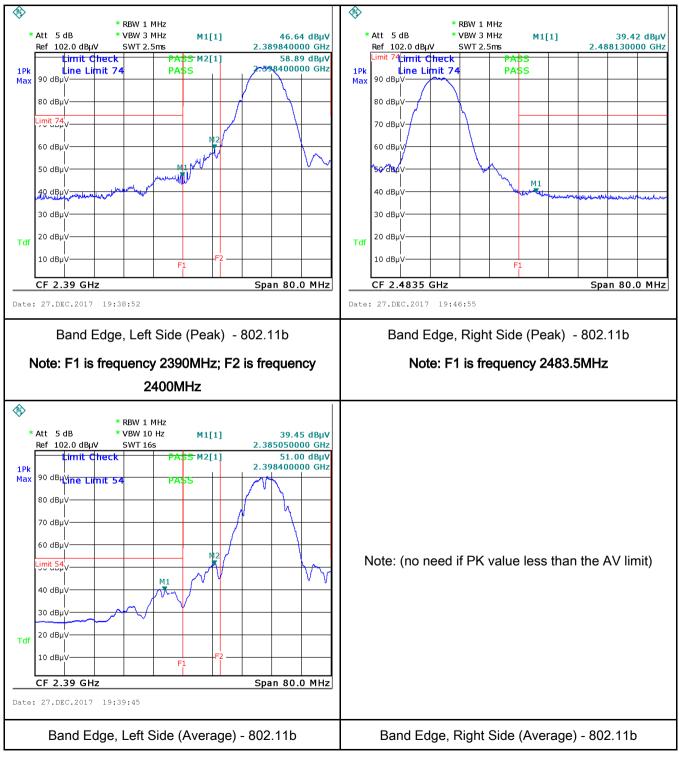


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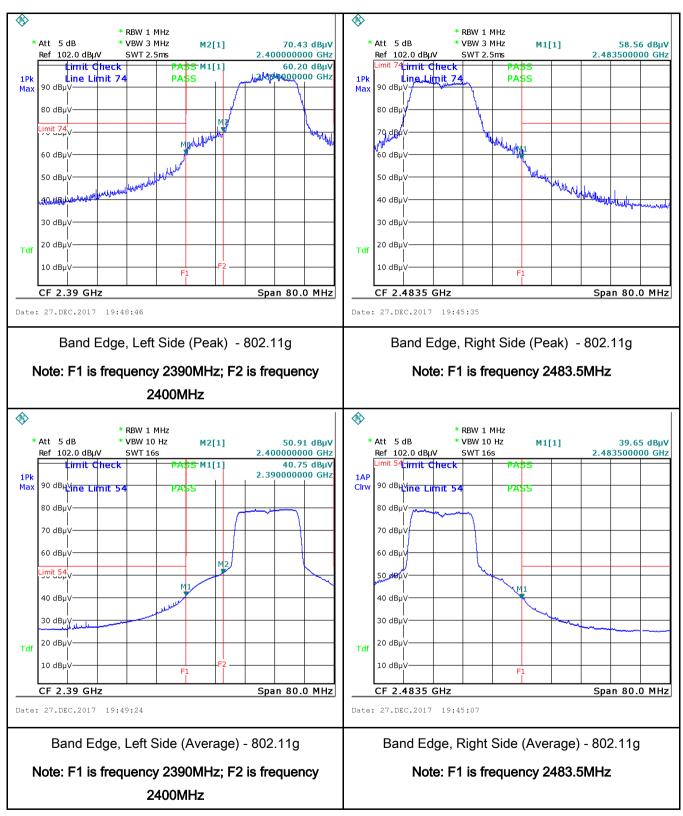
Test Plots

Band Edge measurement result



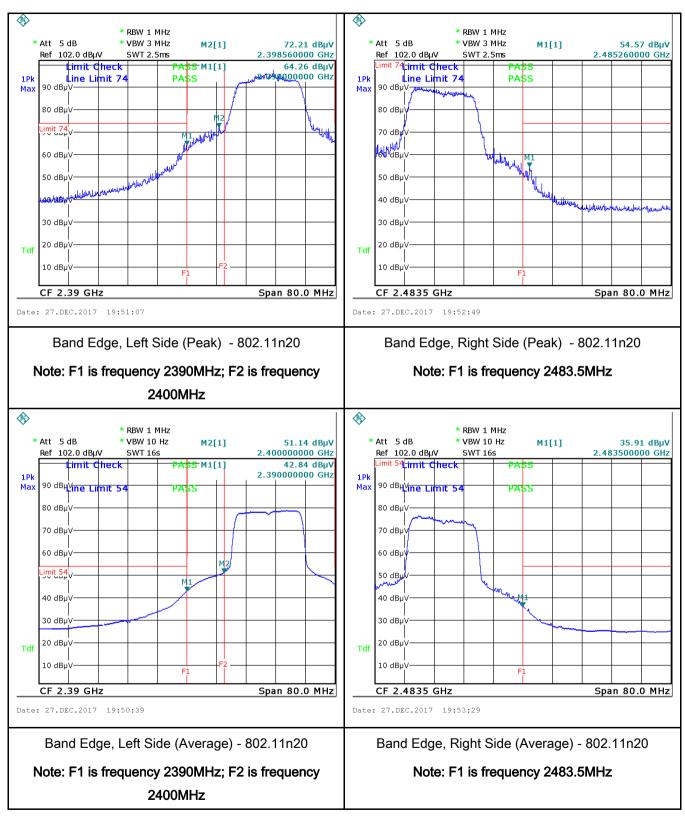


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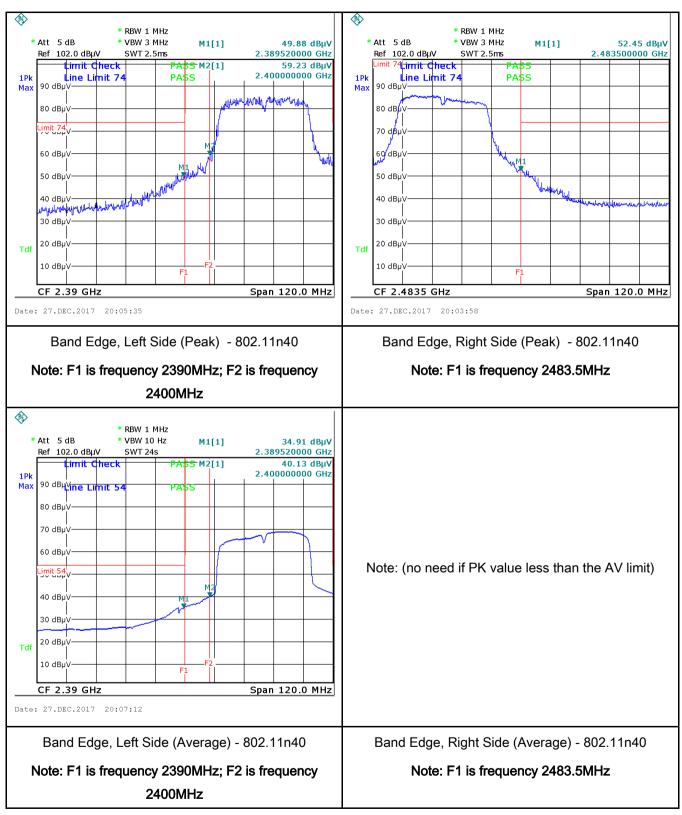


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6.6 AC Power Line Conducted Emissions

Temperature	25 °C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	December 08, 2017
Tested By :	Aaron Liang

Requirement(s):

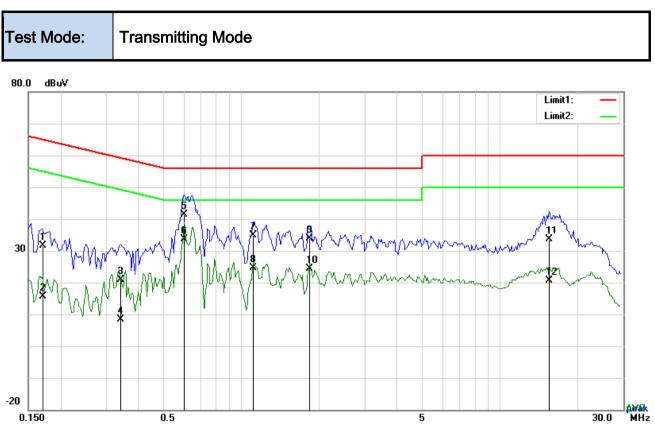
Spec	Item	Requirement	Applicable			
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-fr connected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at th Frequency ranges (MHz) $0.15 \sim 0.5$ $0.5 \sim 5$ $5 \sim 30$	Y			
Test Setup	5 ~ 30 60 50 Vertical Ground Reference Plane UT 40 cm LISN B0 cm Horizontal Ground Reference Plane Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm					
Procedure	 The 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			
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A Bureau Verita	as Group Company	Page	34 of 66
	 The EUT was switched A scan was made on over the required freq High peaks, relative to selected frequencies setting of 10 kHz. 	ed on and allowed the NEUTRAL lin juency range usin o the limit line, Th and the necessa	owered separately from another main supply. d to warm up to its normal operating condition. ne (for AC mains) or Earth line (for DC power) ng an EMI test receiver. ne EMI test receiver was then tuned to the ry measurements made with a receiver bandwidth E line (for AC mains) or DC line (for DC power).
Remark			
Result	Pass F	ail	
Test Data	Yes Yes (See below)	N/A N/A	



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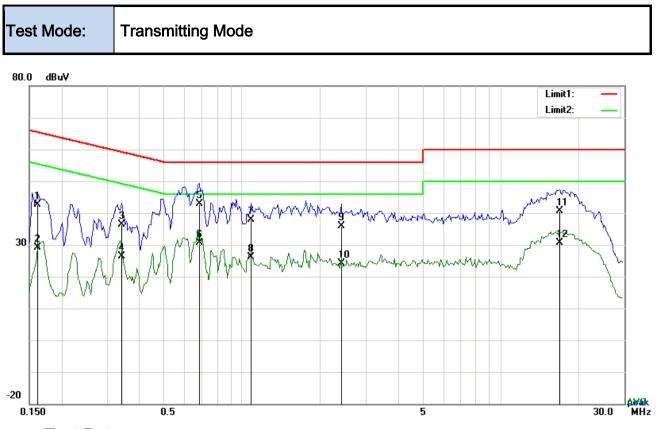
Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1712	21.62	QP	10.03	31.65	64.90	-33.25
2	L1	0.1712	5.68	AVG	10.03	15.71	54.90	-39.19
3	L1	0.3411	10.81	QP	10.03	20.84	59.18	-38.34
4	L1	0.3411	-1.62	AVG	10.03	8.41	49.18	-40.77
5	L1	0.6024	31.24	QP	10.03	41.27	56.00	-14.73
6	L1	0.6024	23.62	AVG	10.03	33.65	46.00	-12.35
7	L1	1.1172	24.85	QP	10.03	34.88	56.00	-21.12
8	L1	1.1172	14.65	AVG	10.03	24.68	46.00	-21.32
9	L1	1.8387	23.94	QP	10.04	33.98	56.00	-22.02
10	L1	1.8387	14.30	AVG	10.04	24.34	46.00	-21.66
11	L1	15.5073	23.50	QP	10.23	33.73	60.00	-26.27
12	L1	15.5073	10.35	AVG	10.23	20.58	50.00	-29.42



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Test Data

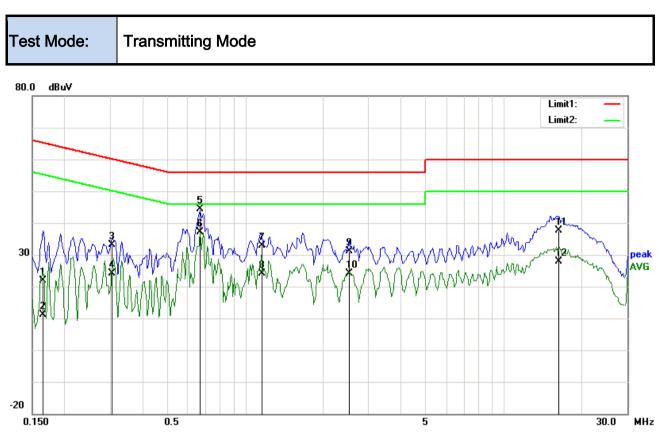
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	Ν	0.1617	32.49	QP	10.02	42.51	65.38	-22.87
2	Ν	0.1617	19.05	AVG	10.02	29.07	55.38	-26.31
3	Ν	0.3411	26.48	QP	10.02	36.50	59.18	-22.68
4	Ν	0.3411	16.41	AVG	10.02	26.43	49.18	-22.75
5	Ν	0.6843	32.86	QP	10.02	42.88	56.00	-13.12
6	Ν	0.6843	20.60	AVG	10.02	30.62	46.00	-15.38
7	Ν	1.0821	27.79	QP	10.03	37.82	56.00	-18.18
8	Ν	1.0821	16.03	AVG	10.03	26.06	46.00	-19.94
9	Ν	2.4120	25.75	QP	10.04	35.79	56.00	-20.21
10	Ν	2.4120	14.01	AVG	10.04	24.05	46.00	-21.95
11	Ν	16.8801	30.37	QP	10.22	40.59	60.00	-19.41
12	Ν	16.8801	20.30	AVG	10.22	30.52	50.00	-19.48



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Test Data

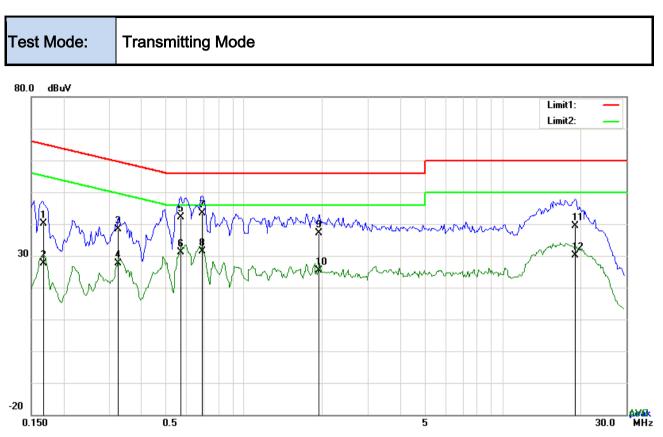
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1656	11.97	QP	10.03	22.00	65.18	-43.18
2	L1	0.1656	1.15	AVG	10.03	11.18	55.18	-44.00
3	L1	0.3060	23.11	QP	10.03	33.14	60.08	-26.94
4	L1	0.3060	14.14	AVG	10.03	24.17	50.08	-25.91
5	L1	0.6687	34.31	QP	10.03	44.34	56.00	-11.66
6	L1	0.6687	27.11	AVG	10.03	37.14	46.00	-8.86
7	L1	1.1595	22.76	QP	10.03	32.79	56.00	-23.21
8	L1	1.1595	14.02	AVG	10.03	24.05	46.00	-21.95
9	L1	2.5212	21.09	QP	10.05	31.14	56.00	-24.86
10	L1	2.5212	13.98	AVG	10.05	24.03	46.00	-21.97
11	L1	16.2444	27.43	QP	10.24	37.67	60.00	-22.33
12	L1	16.2444	17.76	AVG	10.24	28.00	50.00	-22.00



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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	0.1677	30.06	QP	10.02	40.08	65.07	-24.99
2	Ν	0.1677	17.69	AVG	10.02	27.71	55.07	-27.36
3	Ν	0.3255	28.38	QP	10.02	38.40	59.57	-21.17
4	Ν	0.3255	17.61	AVG	10.02	27.63	49.57	-21.94
5	Ν	0.5673	32.02	QP	10.02	42.04	56.00	-13.96
6	Ν	0.5673	21.17	AVG	10.02	31.19	46.00	-14.81
7	Ν	0.6882	33.40	QP	10.02	43.42	56.00	-12.58
8	Ν	0.6882	21.47	AVG	10.02	31.49	46.00	-14.51
9	Ν	1.9479	27.05	QP	10.04	37.09	56.00	-18.91
10	Ν	1.9479	15.34	AVG	10.04	25.38	46.00	-20.62
11	Ν	19.0758	29.14	QP	10.25	39.39	60.00	-20.61
12	Ν	19.0758	19.92	AVG	10.25	30.17	50.00	-19.83



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6.7 Radiated Spurious Emissions & Restricted Band

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1023mbar
Test date :	December 27, 2017
Tested By :	Aaron Liang

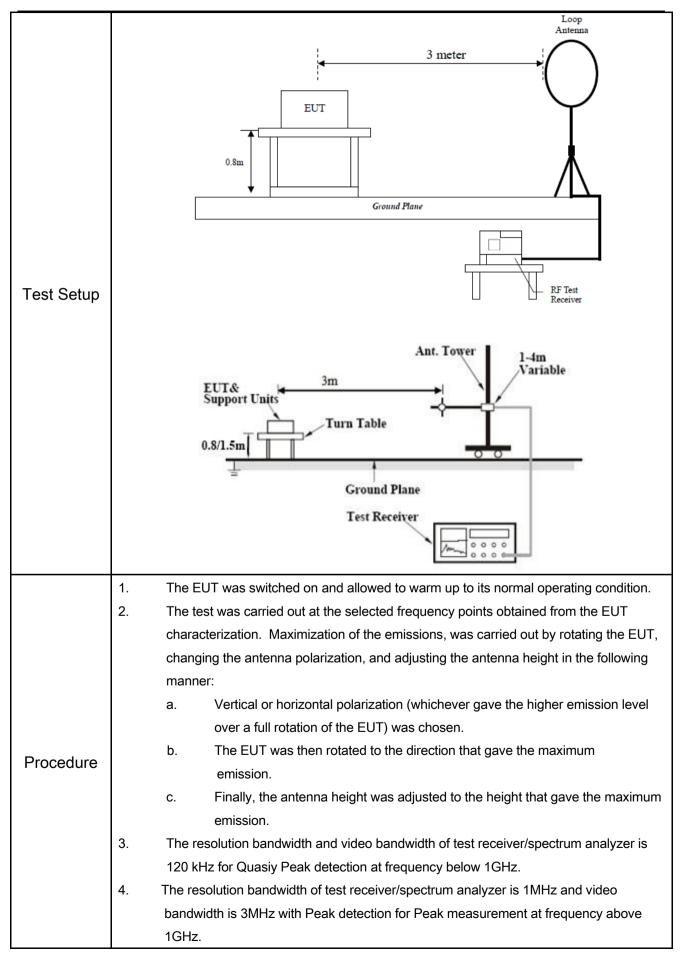
Requirement(s):

Spec	Item	Requirement		Applicable
		Except higher limit as specified else emissions from the low-power radio exceed the field strength levels specified the level of any unwanted emission the fundamental emission. The tight edges		
		Frequency range (MHz)	Field Strength (µV/m)	_
	a)	0.009~0.490	2400/F(KHz)	
		0.490~1.705	24000/F(KHz)	
		1.705~30.0	30	
		30 - 88	100	
47CFR§15.		88 - 216	150	
247(d),		216 960	200	
RSS210		Above 960		
(A8.5)	b)	For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is op power that is produced by the inter 20 dB or 30dB below that in the 10 band that contains the highest leve determined by the measurement m used. Attenuation below the general is not required 20 dB down 30	V	
	c)	or restricted band, emission must a emission limits specified in 15.209	lso comply with the radiated	V



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	 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. 5. 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	Result Pass Fail						
_	Yes Yes (See below)	N/A N/A					



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Test Result:

Test Mode:	Transmi	Transmitting Mode					
Frequency I	Frequency range: 9KHz - 30MHz						

Freq.	Detection	Factor	Reading	Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
						>20
						>20

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

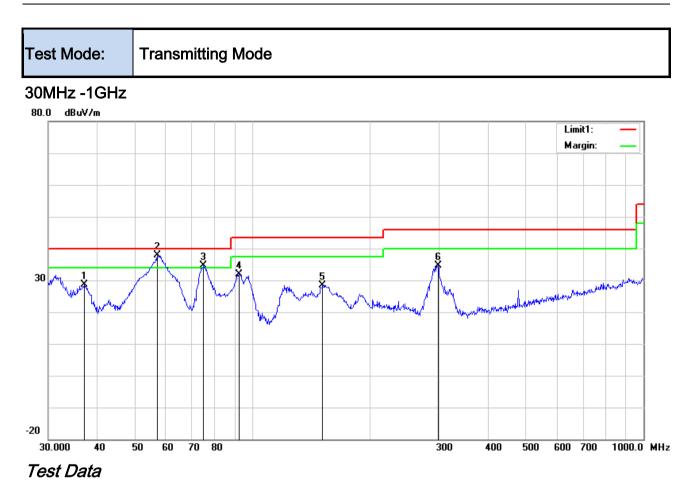
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



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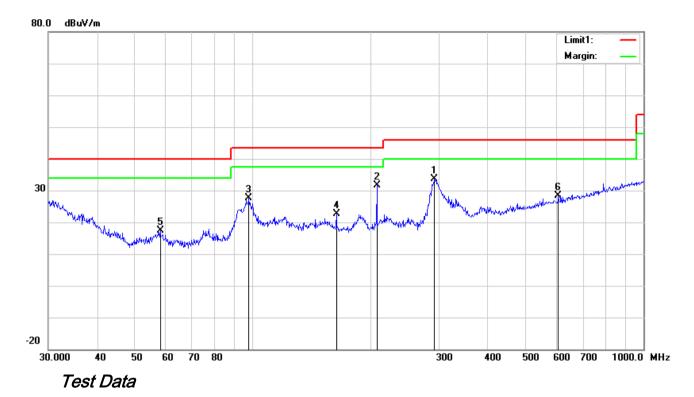
Vertical	Polarity	Plot @3m
Vortiour	i olancy	

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	V	37.0249	34.01	peak	16.07	22.26	0.77	28.59	40.00	-11.41	100	105
2	V	56.9912	51.77	QP	7.63	22.40	0.77	37.77	40.00	-2.23	100	32
3	V	74.9191	48.29	QP	7.70	22.40	0.96	34.55	40.00	-5.45	100	191
4	V	92.1388	44.72	peak	8.51	22.32	0.97	31.88	43.50	-11.62	200	139
5	V	151.0666	36.70	peak	12.60	22.33	1.35	28.32	43.50	-15.18	100	179
6	V	298.2681	41.58	peak	13.52	22.29	1.79	34.60	46.00	-11.40	100	157



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30MHz -1GHz



Ν	P/	Frequency	Reading	Detect	Ant_F	PA_G	Cab_	Result	Limit	Margin	Height	Degr
о.	L			or			L					ee
		(MHz)	(dBuV/m		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
)									
1	н	292.0583	40.77	peak	13.25	22.29	1.78	33.51	46.00	-12.49	100	205
2	Н	207.8501	40.50	peak	11.99	22.37	1.57	31.69	43.50	-11.81	100	230
3	Н	97.7983	39.08	peak	9.87	22.32	1.06	27.69	43.50	-15.81	100	226
4	Н	163.7550	31.31	peak	12.30	22.27	1.38	22.72	43.50	-20.78	100	193
5	н	57.9993	31.50	peak	7.52	22.40	0.76	17.38	40.00	-22.62	100	156
6	н	605.6592	28.17	peak	19.16	21.57	2.51	28.27	46.00	-17.73	100	8



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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)
4824	48.4	AV	V	33.39	7.22	48.46	40.55	54	-13.45
4824	45.71	AV	Н	33.39	7.22	48.46	37.86	54	-16.14
4824	67.88	PK	V	33.39	7.22	48.46	60.03	74	-13.97
4824	64.26	PK	Н	33.39	7.22	48.46	56.41	74	-17.59
8612	18.04	AV	V	38.25	8.77	48.4	16.66	54	-37.34
8612	18.25	AV	Н	38.25	8.77	48.4	16.87	54	-37.13
8612	38.69	PK	V	38.25	8.77	48.4	37.31	74	-36.69
8612	42.79	PK	Н	38.25	8.77	48.4	41.41	74	-32.59

Low Channel (2412 MHz) (n20 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	47.57	AV	V	33.62	7.53	48.36	40.36	54	-13.64
4874	47.28	AV	Н	33.62	7.53	48.36	40.07	54	-13.93
4874	70.62	PK	V	33.62	7.53	48.36	63.41	74	-10.59
4874	63.58	PK	Н	33.62	7.53	48.36	56.37	74	-17.63
10820	18.22	AV	V	39.6	10.05	47.84	20.03	54	-33.97
10820	19.92	AV	Н	39.6	10.05	47.84	21.73	54	-32.27
10820	38.2	PK	V	39.6	10.05	47.84	40.01	74	-33.99
10820	37.82	PK	Н	39.6	10.05	47.84	39.63	74	-34.37



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Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4924	47.76	AV	V	33.74	7.78	48.34	40.94	54	-13.06
4924	44.91	AV	Н	33.74	7.78	48.34	38.09	54	-15.91
4924	72.69	PK	V	33.74	7.78	48.34	65.87	74	-8.13
4924	69.03	PK	Н	33.74	7.78	48.34	62.21	74	-11.79
17909	18.07	AV	V	42.58	19.96	45.25	35.36	54	-18.64
17909	18.27	AV	Н	42.58	19.96	45.25	35.56	54	-18.44
17909	38.76	PK	V	42.58	19.96	45.25	56.05	74	-17.95
17909	42.14	PK	Н	42.58	19.96	45.25	59.43	74	-14.57

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

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 Z-Axis were investigated. The results above show only the worst case.

4, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.



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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	09/15/2017	09/14/2018	>
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	>
Line Impedance	LI-125A	191107	09/23/2017	09/22/2018	•
ISN	ISN T800	34373	09/23/2017	09/22/2018	
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/15/2017	09/14/2018	K
Power Splitter	1#	1#	08/30/2017	08/29/2018	۲
DC Power Supply	E3640A	MY40004013	09/15/2017	09/14/2018	<
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	٢
Positioning Controller	UC3000	MF780208282	11/17/2017	11/16/2018	•
OPT 010 AMPLIFIER	04475	0707400400		00/00/00/00	
(0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	>
Microwave Preamplifier					_
(1~26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	>
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	•
A sting A stars					
Active Antenna	AL-130	121031	10/12/2017	10/11/2018	•
(9kHz-30MHz)					
Bilog Antenna	JB6	A110712	09/19/2017	09/18/2018	>
(30MHz~6GHz)	300		03/13/2011	03/10/2010	
Double Ridge Horn					
Antenna (1 ~18GHz)	AH-118	71283	09/22/2017	09/21/2018	>
Universal Radio	CMU200	121393	09/23/2017	09/22/2018	>
Communication Tester					R.c.



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Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View 70 80 90 200 10 20 30 90 100 10 20 30 40 50 60 Infinix 0.00 00 80 70 60 50 40 30 10 200 50 80 70 60 50 40 30 08 06 001 01 01 50 30 Ot 0/ 50 10 300 80 30 0ŧ 09 20 20 40 30 0/ 07 06 007 01 09 OR

Adapter - Lable View





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EUT - Front View



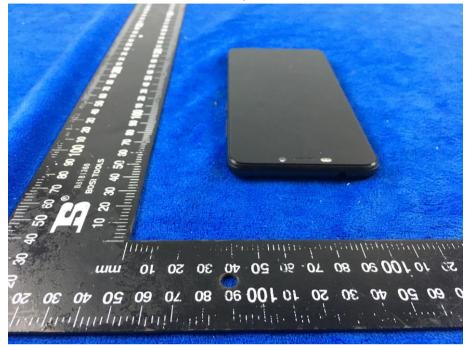
EUT - Rear View





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EUT - Top View



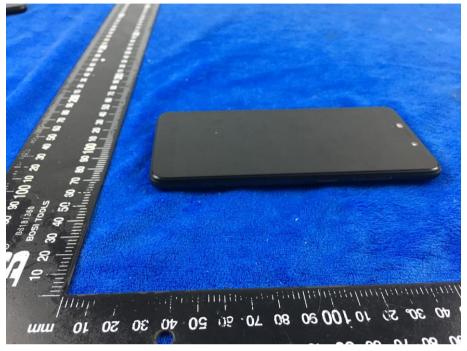
EUT - Bottom View



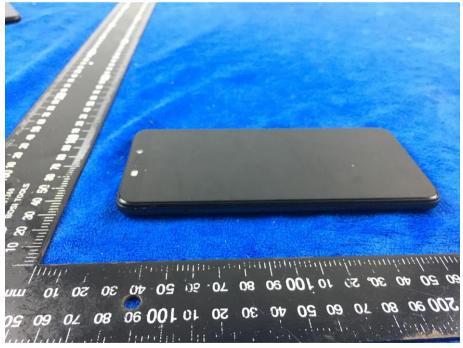


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EUT - Left View



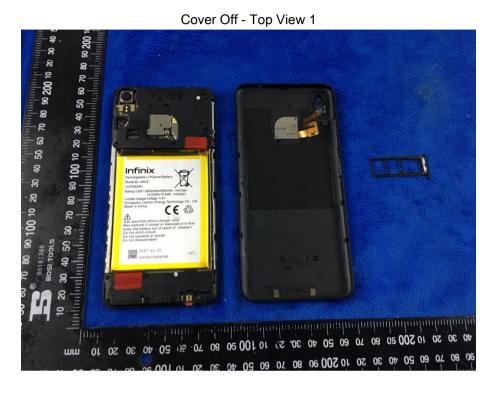
EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 2





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Battery - Front View



Battery - Rear View



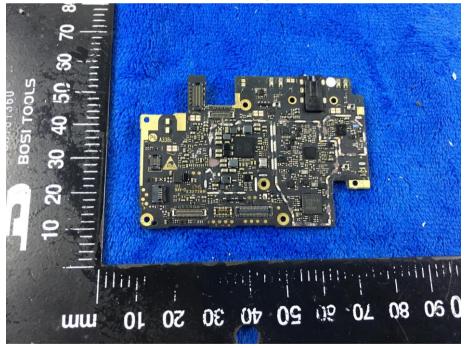


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Mainboard with Shielding - Front View



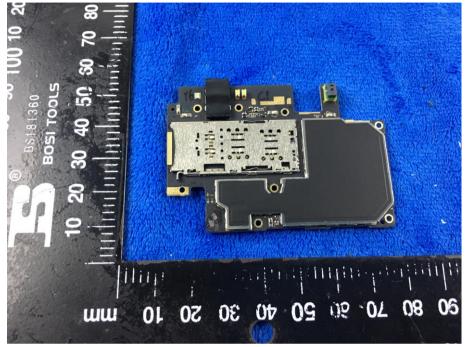
Mainboard with Shielding - Rear View



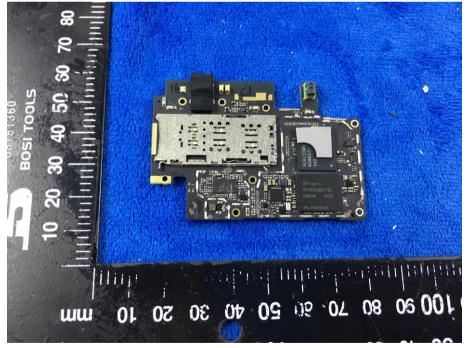


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Mainboard without Shielding - Front View



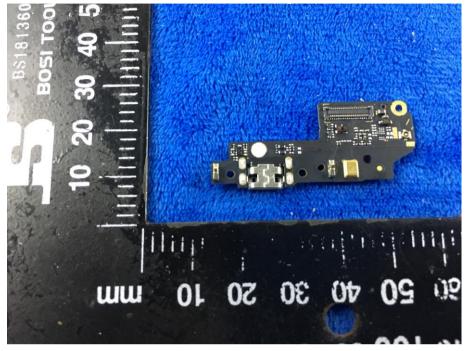
Mainboard without Shielding - Rear View



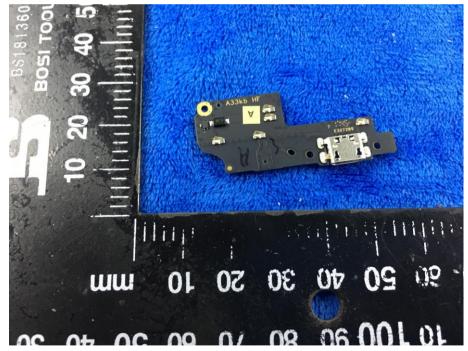


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Smallboard - Front View



Smallboard – Rear View





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LCD - Front View



LCD - Rear View



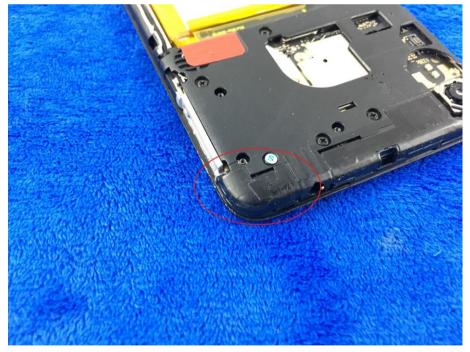


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GSM/PCS/U MTS-FDD/LTE Antenna View



WIFI/BT/BLE/GPS - Antenna View





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RXD- Antenna View





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Annex B.iii. Photograph: Test Setup Photo





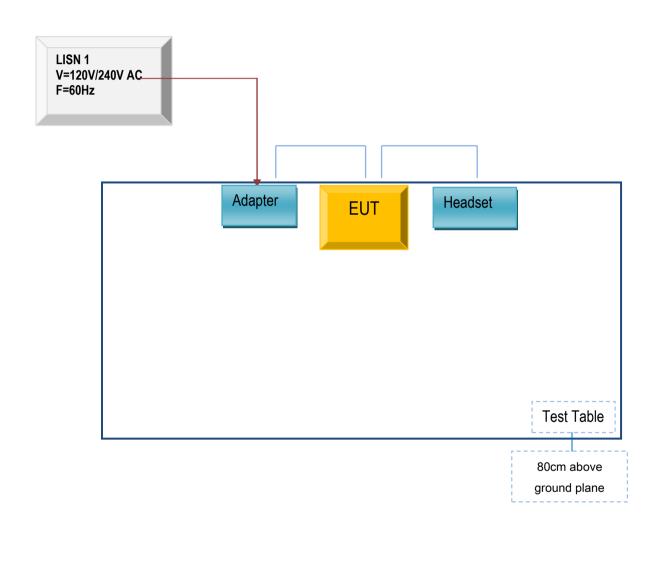
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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

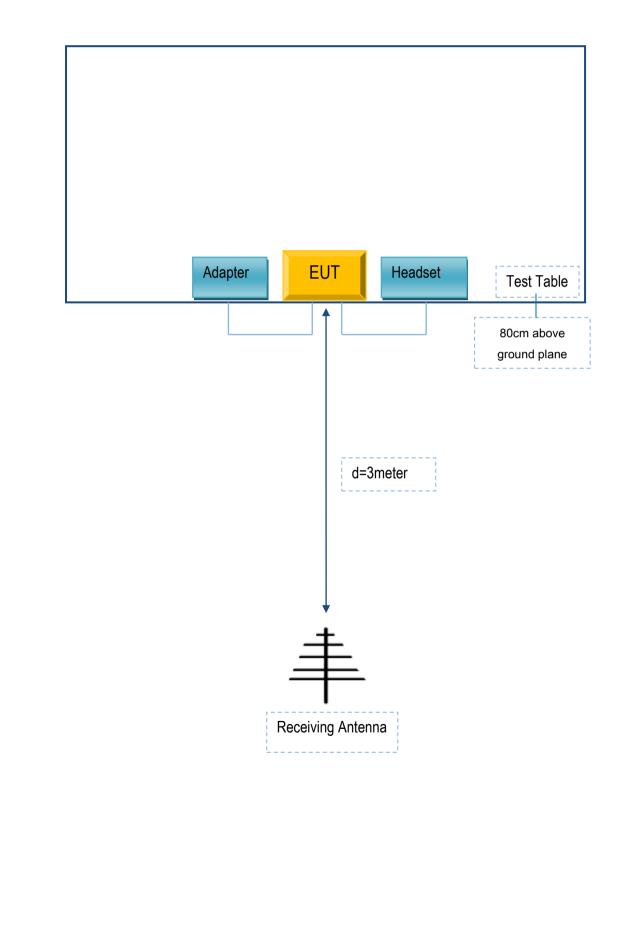
Block Configuration Diagram for AC Line Conducted Emissions





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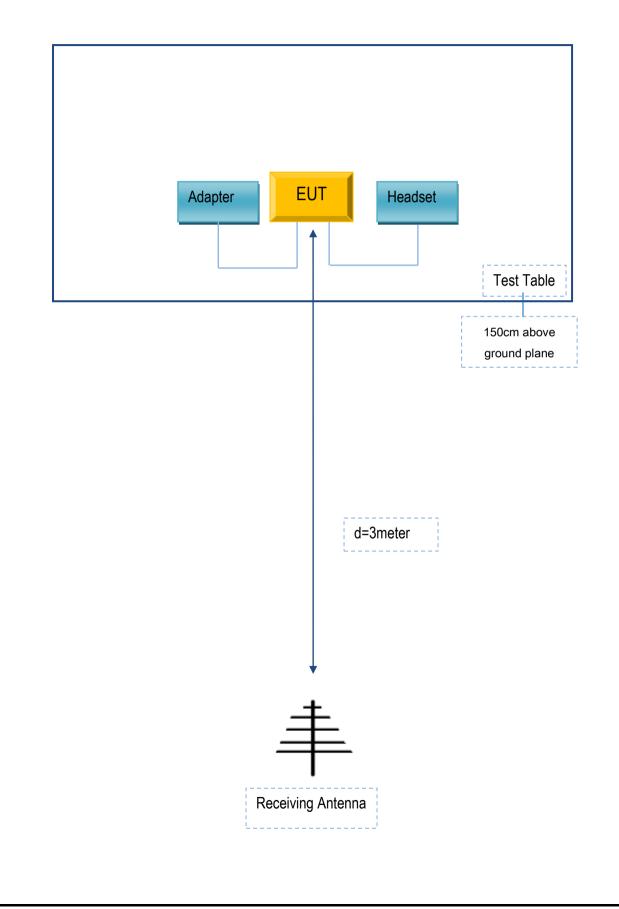
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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





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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
TECNO MOBILE LIMITED	Adapter	A88-502000	N/A
TECNO MOBILE LIMITED	headset	X573	N/A

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	N/A



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

Please see the attachment



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Annex E. DECLARATION OF SIMILARITY

N/A