RF TEST REPORT



Report No.: 17070865-FCC-R4-V1

Supersede Report No.: N/A				
Applicant	Mobiwire Mobiles (Ningbo) Co.,Ltd			
Product Name	Mobile phone			
Model No.	N552			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2016, ANSI C63.10: 2	013	
Test Date	September 09 to 18, 2017			
Issue Date	September 27, 2017			
Test Result	Pass Fail			
Equipment compl	Equipment complied with the specification			
Equipment did not comply with the specification				
Loren Luo		David Huang		
Loren Luo Test Engineer		David Huang Checked By		
This test report may be reproduced in full only				
Test result presented in this test report is applicable to the tested sample only				

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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



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Laboratories Introduction

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
17070865-FCC-R4	NONE	Original	September 19, 2017
	V1	Updated the GPRS/ EGPRS	September 27, 2017
17070865-FCC-R4-V1		Multi-slot class data	

2. Customer information

Applicant Name	Mobiwire Mobiles (Ningbo) Co.,Ltd
Applicant Add	Mobiwire Mobiles,No. 999 Dacheng East Road Fenghua,Zhejiang China
Manufacturer	Mobiwire Mobiles (Ningbo) Co.,Ltd
Manufacturer Add	Mobiwire Mobiles, No. 999 Dacheng East Road Fenghua, Zhejiang 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)

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:	N552
Serial Model:	N/A
Date EUT received:	September 08, 2017
Test Date(s):	September 09 to 18, 2017
Equipment Category :	DTS
Antenna Gain:	GSM850: -3dBi PCS1900: -1dBi UMTS-FDD Band V: -3dBi UMTS-FDD Band II: -0.5dBi LTE Band IV: -2dBi WIFI: 1dBi Bluetooth/BLE: 1dBi GPS: 1dBi
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 UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz; RX: 1932.4 ~ 1987.6 MHz LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz



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A Bureau veritas oroup company	1 490
	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: 9.44dBm
Mary Output Davian	802.11g: 9.37dBm
Max. Output Power:	802.11n(20M): 9.36dBm
	802.11n(40M): 9.55dBm
	GSM 850: 124CH
	PCS1900: 299CH
	UMTS-FDD Band V: 102CH
	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: S005UA0500100
	Input: AC100-240V~50/60Hz,150mA
Input Power:	Output: DC 5.0V,1000mA
	Battery:
	Spec: 3.85V, 3000mAh,11.55Wh
Trade Name :	NOBLEX
GPRS/ EGPRS Multi-slot class	8/10/11/12
FCC ID:	2ADA4N552



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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	e ep.ianoo

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 3 antennas:

A permanently attached PIFA antenna for GSM/PCS/ UMTS-FDD Band V/II, the gain is -3dBi for GSM850/ UMTS-FDD Band V, the gain is -1dBi for PCS1900, the gain is -0.5dBi for UMTS-FDD Band II. A permanently attached PIFA antenna for LTE Band IV, the gain is -2dBi for LTE Band IV. A permanently attached PIFA antenna for Bluetooth/BLE/WIFI/GPS, the gain is 1dBi for WIFI/Bluetooth/BLE/GPS.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB&20 dB) Channel Bandwidth

Temperature	25 °C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	September 16, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable		
§ 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 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) Tra	ace mode = max hold.			
	e) Sw	eep = auto couple.			
	f) Allo	w the trace to stabilize.			
	g) Me	asure the maximum width of the emission that is constraine	d by the freq		
Test Procedure	uencie	es associated with the two outermost amplitude points (uppe	r and lower fr		
	equen	cies) that are attenuated by 6 dB relative to the maximum le	vel measure		
	d in the fundamental emission.				
		bandwidth			
		0 Occupied Bandwidth (OBW=20dB bandwidth)			
		et RBW = 1%-5% OBW.			
		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)

₩ Yes

Measurement result

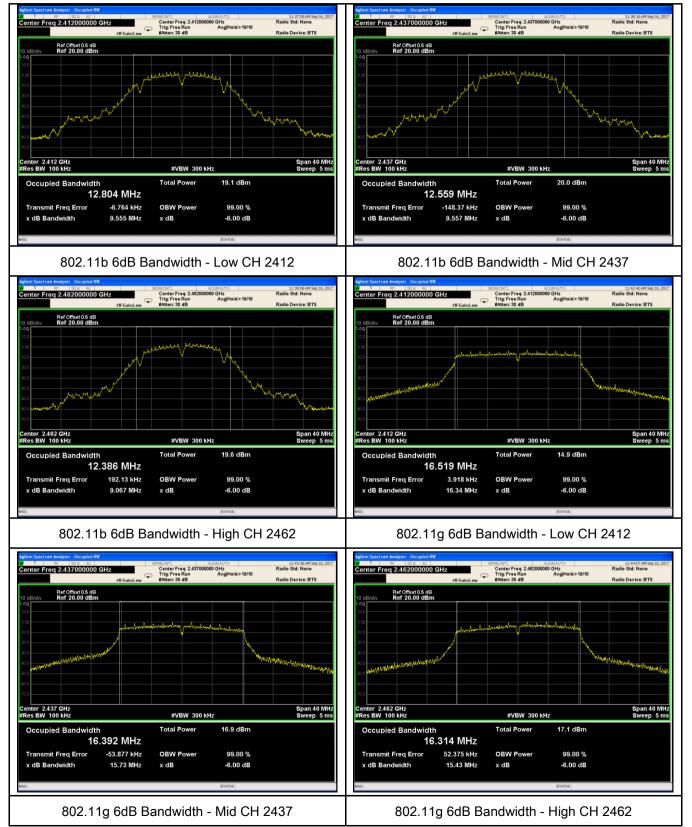
Test mode	СН	Freq (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
	Low	2412	9.555	14.41	≥ 0.5
802.11b	Mid	2437	9.557	14.31	≥ 0.5
	High	2462	9.067	13.86	≥ 0.5
	Low	2412	16.34	19.11	≥ 0.5
802.11g	Mid	2437	15.73	18.64	≥ 0.5
	High	2462	15.43	18.30	≥ 0.5
002.445	Low	2412	17.57	19.39	≥ 0.5
802.11n	Mid	2437	16.34	19.23	≥ 0.5
(20M)	High	2462	15.10	19.02	≥ 0.5
802.11n	Low	2422	35.10	38.65	≥ 0.5
	Mid	2437	35.12	38.84	≥ 0.5
(40M)	High	2452	35.52	39.55	≥ 0.5



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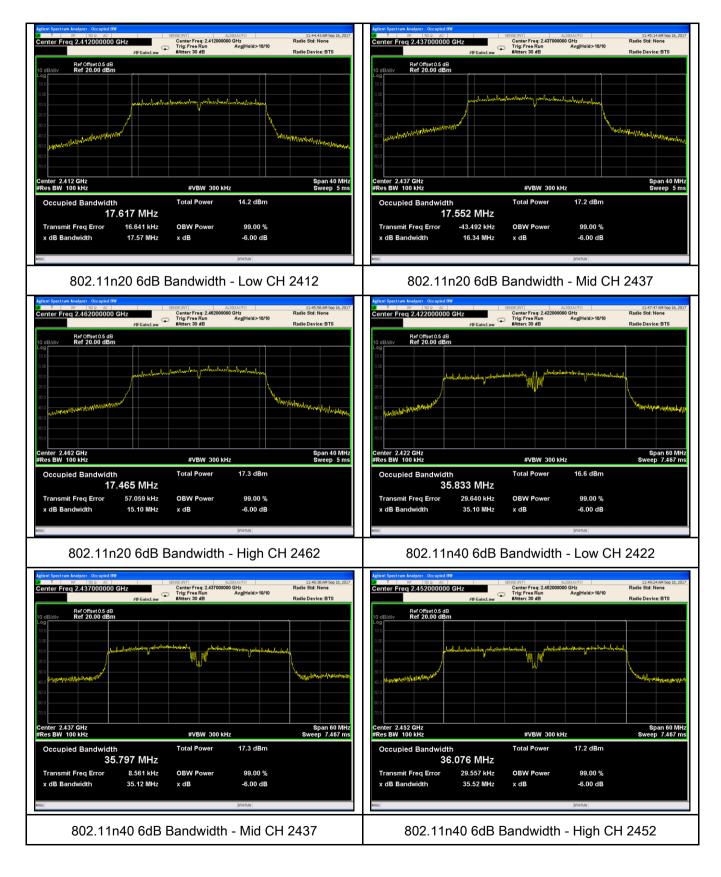
Test Plots

6dB Bandwidth measurement result





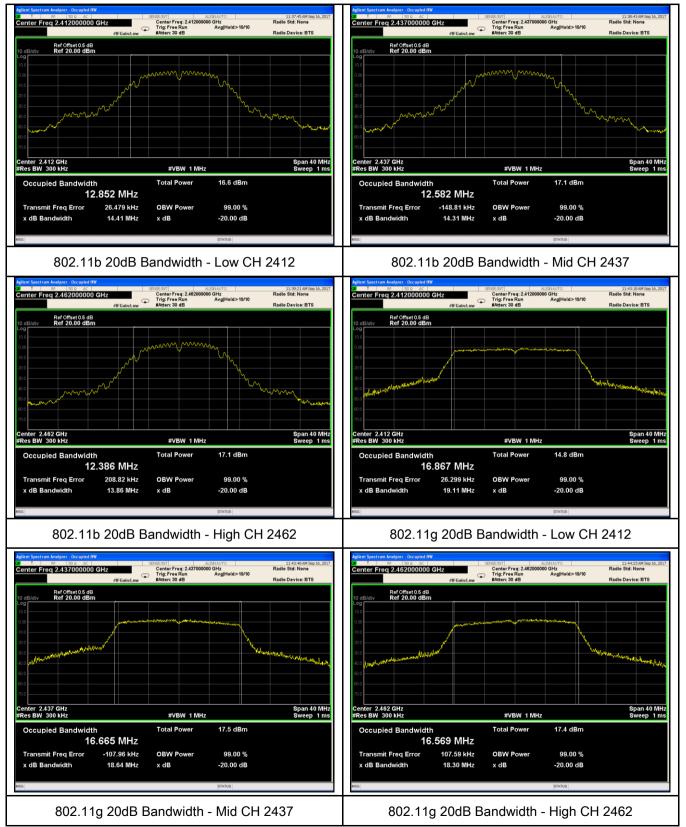
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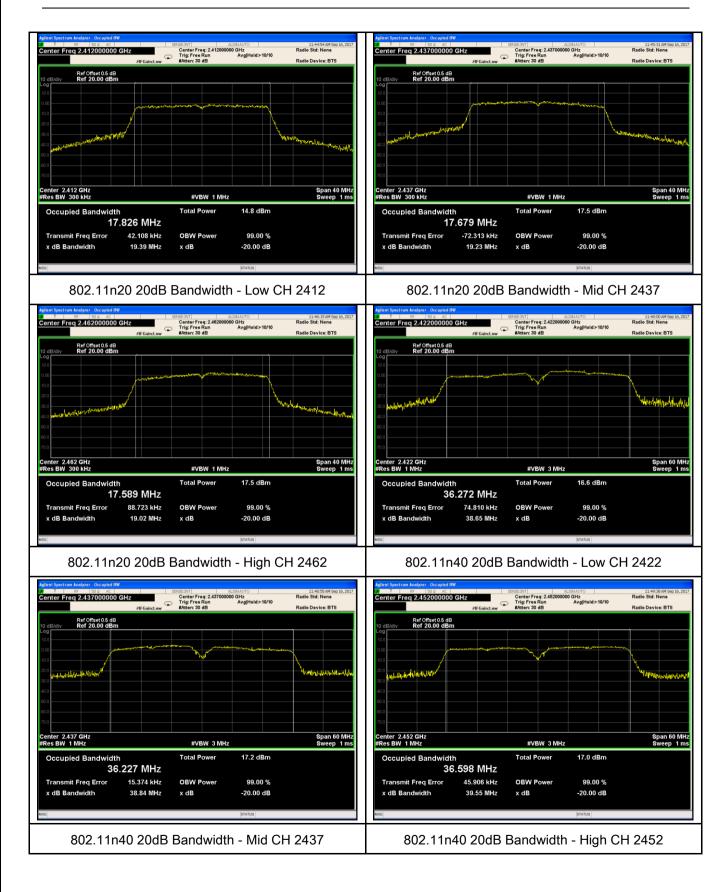
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20 dB Bandwidth measurement result





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6.3 Maximum Output Power

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1018mbar
Test date :	September 19, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Ite	Requirement	Applicable		
	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	V		
Test Setup	Spectrum Analyzer EUT				
Test Procedure		 4 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band 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 ≤ RBW/2, so that narrowband signals are not lost between frequer e) Sweep time = auto. f) Detector = RMS (i.e., power averaging), if available. Otherwise, u detector mode. g) If transmit duty cycle < 98 %, use a sweep trigger with the level s triggering only on full power pulses. The transmitter shall operate at a statement of the statement of the	-bin spacing ncy bins.) se sample set to enable		

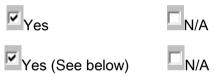


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-		
		power control level for the entire duration of every sweep. If the EUT transmits
		continuously (i.e., with no off intervals) or at duty cycle \geq 98 %, and if each
		transmission is entirely at the maximum power control level, then the trigger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

Test Data Test Plot



Output Power measurement result

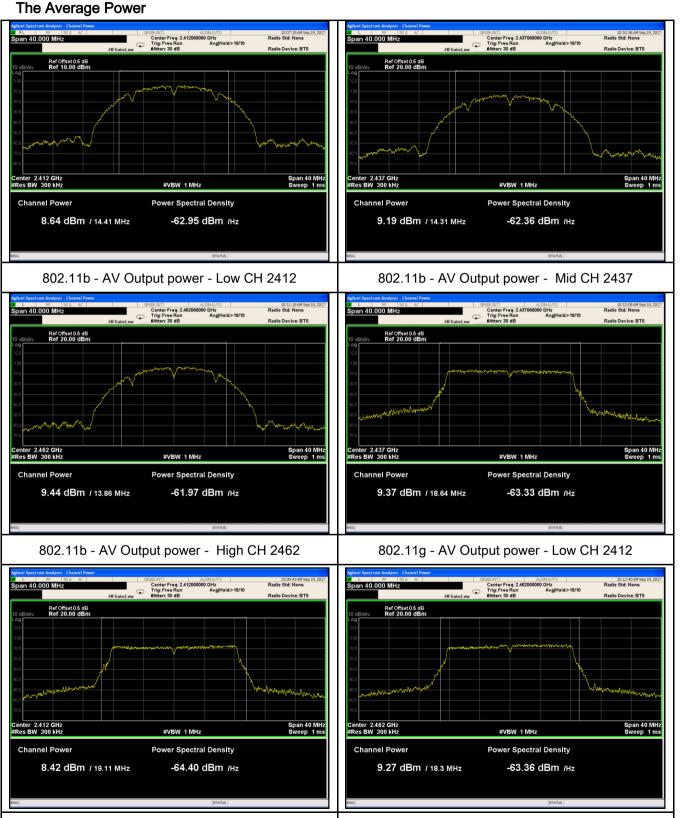
Туре	Test mode	СН	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
		Low	2412	8.64	30	Pass
	802.11b	Mid	2437	9.19	30	Pass
		High	2462	9.44	30	Pass
		Low	2412	9.37	30	Pass
	802.11g Output	Mid	2437	8.42	30	Pass
Output		High	2462	9.27	30	Pass
power	000.44#	Low	2412	8.81	30	Pass
	802.11n (20M) 802.11n (40M)	Mid	2437	9.36	30	Pass
		High	2462	9.26	30	Pass
		Low	2422	9.22	30	Pass
		Mid	2437	9.48	30	Pass
		High	2452	9.55	30	Pass



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802.11g - AV Output power - High CH 2462

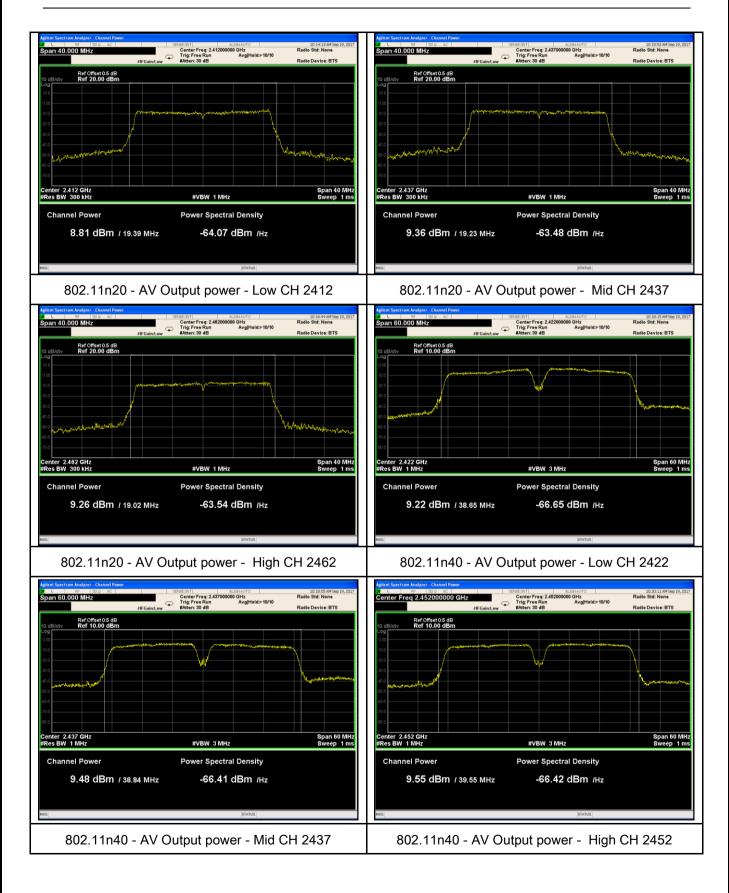
Test Plots



802.11g - AV Output power - Mid CH 2437



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6.4 Power Spectral Density

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1018mbar
Test date :	September 19, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable	
§15.247(e)	a)	 a) The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. 		
Test Setup		Spectrum Analyzer EUT		
Test Procedure		 D01 DTS MEAS Guidance v03r03, 10.2 power spectral densises spectral density measurement procedure a) Set analyzer center frequency to DTS channel center freque 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 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} □_{N/A}

Power Spectral Density measurement result

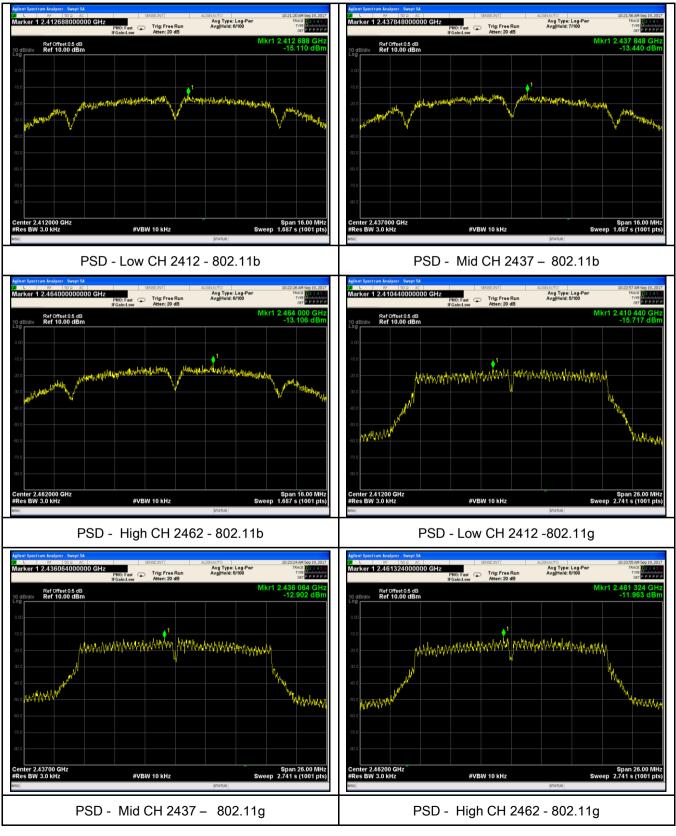
Туре	Test mode	СН	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
		Low	2412	-15.110	8	Pass
	802.11b	Mid	2437	-13.440	8	Pass
		High	2462	-13.106	8	Pass
		Low	2412	-15.717	8	Pass
	802.11g	Mid	2437	-12.902	8	Pass
		High	2462	-11.963	8	Pass
PSD	000 11-	Low	2412	-15.197	8	Pass
	802.11n	Mid	2437	-12.621	8	Pass
	(20M) 802.11n (40M)	High	2462	-12.415	8	Pass
		Low	2422	-15.796	8	Pass
		Mid	2437	-13.957	8	Pass
		High	2452	-15.573	8	Pass



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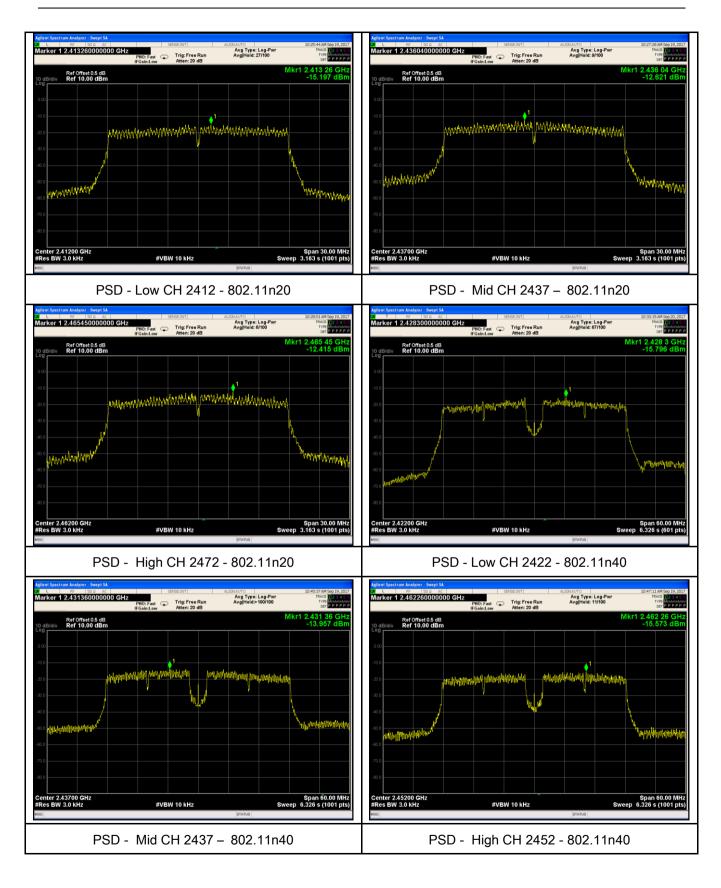
Test Plots

Power Spectral Density measurement result





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	24 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 15, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	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 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.	Y	
Test Setup	Ant. Tower L-4m Variable 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			
SİFM		Test Report No.	17070865-FCC-R4-V1
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	convenient frec check the emis a. The resolutio analyzer is 120 b. The resolutio video bandwidt frequency abov c. The resolutio video bandwidt at frequency ab - 4. Measure the reference level	juency span inclusion of EUT, if particular on bandwidth and kHz for Quasiy l on bandwidth of t h is 3MHz with P ve 1GHz. on bandwidth of t h is 10Hz with Per pove 1GHz. highest amplitud	V of spectrum analyzer to 100 kHz with a uding 100kHz bandwidth from band edge, ass then set Spectrum Analyzer as below: d video bandwidth of test receiver/spectrum Peak detection at frequency below 1GHz. test receiver/spectrum analyzer is 1MHz and Peak detection for Peak measurement at est receiver/spectrum analyzer is 1MHz and the eak detection for Average Measurement as below de appearing on spectral display and set it as a with marking the highest point and edge
	frequency.		
	- 5. Repeat abov	e procedures un	til all measured frequencies were complete.
Remark			
Result	Pass	Fail	
Test Data	res es (See below)	N/A N/A	

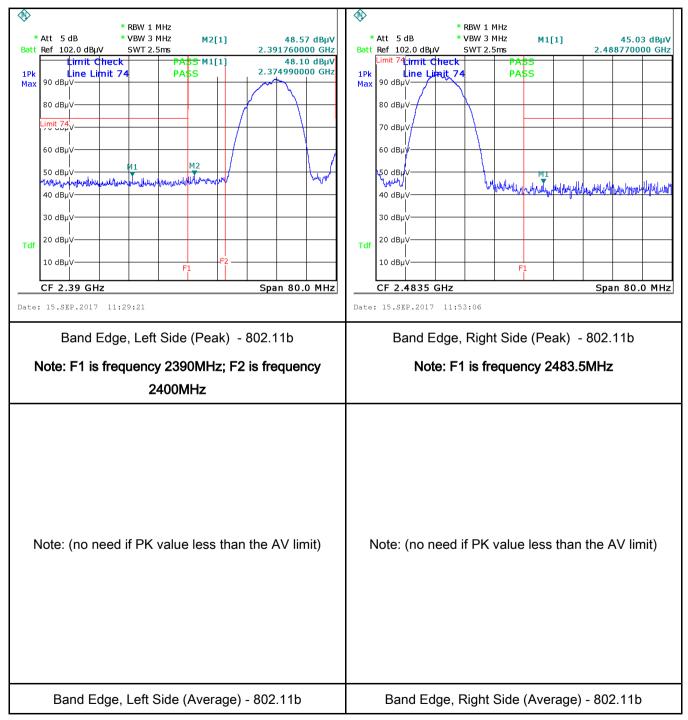


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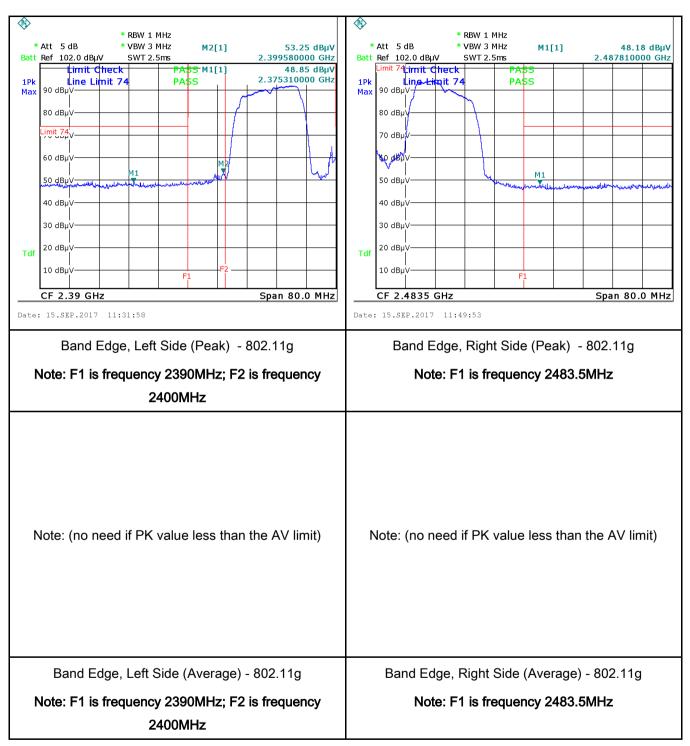
Test Plots

Band Edge measurement result





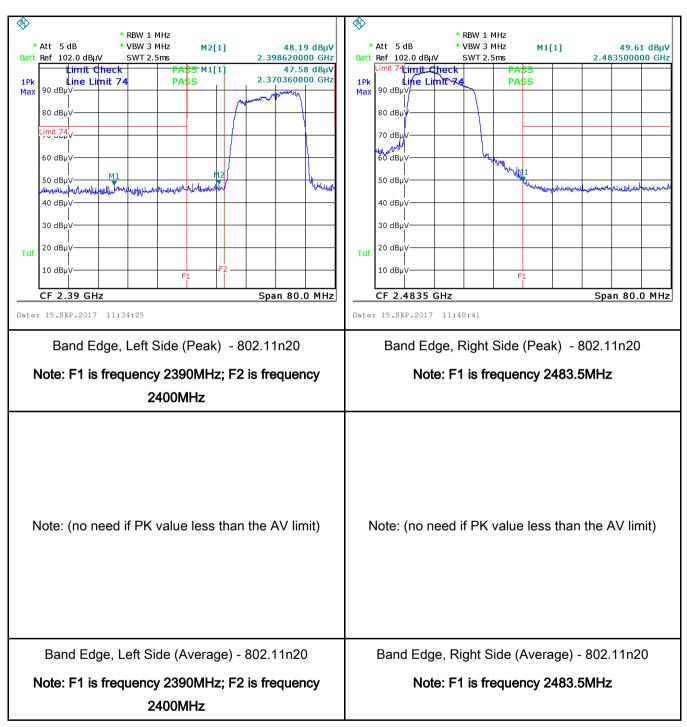
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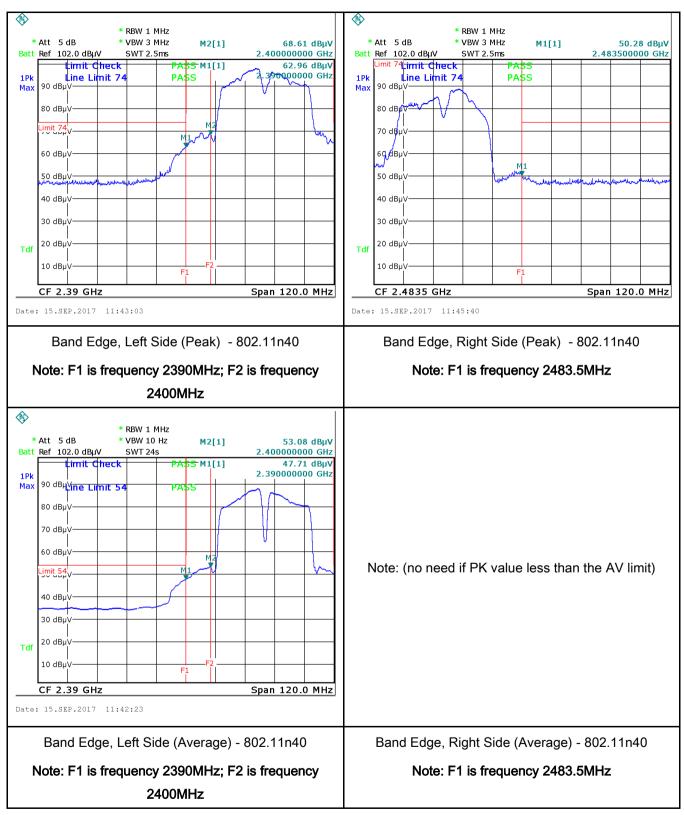
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6.6 AC Power Line Conducted Emissions

Temperature	25 °C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	September 08, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-fr connected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at th Frequency ranges (MHz) $0.15 \sim 0.5$ $0.5 \sim 5$ $5 \sim 30$	tuility (AC) power line ed back onto the AC po es, within the band 150 the following table, as pedance stabilization r e boundary between th	, the radio frequency ower line on any 0 kHz to 30 MHz, shall measured using a 50 network (LISN). The	R
Test Setup		Vertical Ground Reference Plane UT UT USN USN USN USN USN USN USN USN USN USN			
Procedure	the 2. The filte	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.			

3				
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	 The EUT was switched A scan was made on over the required free High peaks, relative to selected frequencies setting of 10 kHz. 	ed on and allowed the NEUTRAL lin quency range usin o the limit line, Th and the necessa	oowered 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. he 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 N/A Test Plot Yes (See below)				