RF TEST REPORT



Report No.: 18070843-FCC-R4

Supersede Report	(NO.: N/A		
Applicant	BLU Products, Inc.		
Product Name	Mobile Phone		
Model No.	C6		
Serial No.	STUDIO J7		
Test Standard	FCC Part 15.247, ANSI C63.10: 2013		
Test Date	November 24 to December 13, 2017		
Issue Date	August 01, 2018		
Test Result	Pass Fail		
Equipment compli	ied with the s		
Equipment did not	t comply with	the specification	1
Aaron Liong		David Huang	
Aaron Liang Test Engineer		David Huang Checked By	
	This test	report may be reprodu	iced in full only
Test result p	resented in t	his test report is applic	able 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
17071301-FCC-R4	NONE	Original	December 14, 2017
18070843-FCC-R4	V1	Added Serial Model and	August 01, 2018
10070043-FCC-R4		change the report No.	

2. Customer information

Applicant Name	BLU Products, Inc.
Applicant Add	10814 NW 33rd St # 100 Doral, FL 33172
Manufacturer	BLU Products, Inc.
Manufacturer Add	10814 NW 33rd St # 100 Doral, FL 33172

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:

SIEMIC (Nanjing-China) Laboratories
2-1 Longcang Avenue Yuhua Economic and
Technology Development Park, Nanjing, China
694825
4842B-1
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:	C6
Serial Model:	STUDIO J7
Date EUT received:	November 23, 2017
Test Date(s):	November 24 to December 13, 2017
Equipment Category :	DTS
Antenna Gain:	GSM850: -0.9dBi PCS1900: -1.6dBi UMTS-FDD Band V: -0.9dBi UMTS-FDD Band IV: -1.3dBi UMTS-FDD Band II: -1.6dBi WIFI: -1.6dBi Bluetooth/BLE: -1.7dBi GPS: -1.7dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK UMTS-FDD: QPSK 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 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



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	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: 12.97 dBm
Max. Output Power:	802.11g: 12.81 dBm
	802.11n(20M): 11.67 dBm
	802.11n(40M): 11.46 dBm
	GSM 850: 124CH
	PCS1900: 299CH
	UMTS-FDD Band V: 102CH
	UMTS-FDD Band IV: 202CH
Number of Observator	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: TPA-46050150UU
	Input: AC100-240V~50/60Hz,0.3A
Input Power:	Output: DC 5.0V,1.5A
	Battery:
	Model: C916040250L
	Spec: 3.8V, 2500mAh, 9.50Wh
Trade Name :	BLU
GPRS/ EGPRS Multi-slot class	8/10/11/12
FCC ID:	YHLBLUC6



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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	

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 GSM/PCS/ UMTS-FDD Band V/ IV /II, the gain is -0.9dBi for GSM850/UMTS-FDD Band V, the gain is -1.6dBi for PCS1900/ UMTS-FDD Band II, the gain is -1.3dBi for UMTS-FDD Band IV.

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI/GPS, the gain is -1.7dBi for Bluetooth/BLE/GPS, the gain is -1.6dBi for WIFI.

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	50%
Atmospheric Pressure	1008mbar
Test date :	December 08, 2017
Tested By :	Aaron Liang

Spec	Item Requirement Applic				
§ 15.247(a)(2)	a)	Z			
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	V		
Test Setup	Spectrum Analyzer EUT				
	55807	4 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth			
		andwidth			
		t RBW = 100 kHz.			
	-	t the video bandwidth (VBW) ≥ 3 × RBW.			
	c) Detector = Peak.				
	d) Trace mode = max hold.				
	e) Sweep = auto couple.				
	f) Allow the trace to stabilize.				
	g) Measure the maximum width of the emission that is constrained by the freq				
Test Procedure	uencies associated with the two outermost amplitude points (upper and lower fr				
rest Flocedure	equencies) that are attenuated by 6 dB relative to the maximum level measure				
	d in the fundamental emission.				
	<u>20dB</u>	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-			



▼ Yes

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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

Test mode	СН	Freq (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
	Low	2412	10.03	≥ 0.5
802.11b	Mid	2437	9.551	≥ 0.5
	High	2462	9.565	≥ 0.5
	Low	2412	15.14	≥ 0.5
802.11g	Mid	2437	15.11	≥ 0.5
	High	2462	15.14	≥ 0.5
902.11-	Low	2412	15.12	≥ 0.5
802.11n	Mid	2437	15.13	≥ 0.5
(20M)	High	2462	15.11	≥ 0.5
802.445	Low	2422	35.16	≥ 0.5
802.11n	Mid	2437	35.15	≥ 0.5
(40M)	High	2452	35.17	≥ 0.5



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Test mode	СН	Freq (MHz)	20dB Bandwidth (MHz)
	Low	2412	15.67
802.11b	Mid	2437	15.25
	High	2462	15.23
	Low	2412	18.63
802.11g	Mid	2437	19.07
	High	2462	18.82
000.445	Low	2412	19.23
802.11n	Mid	2437	21.06
(20M)	High	2462	20.40
000 445	Low	2422	39.27
802.11n	Mid	2437	39.19
(40M)	High	2452	38.94

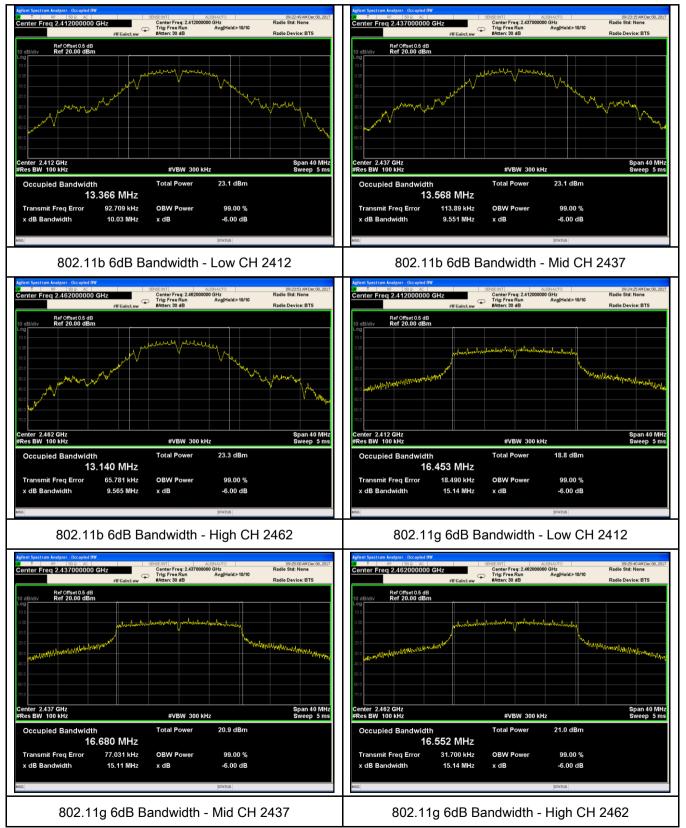


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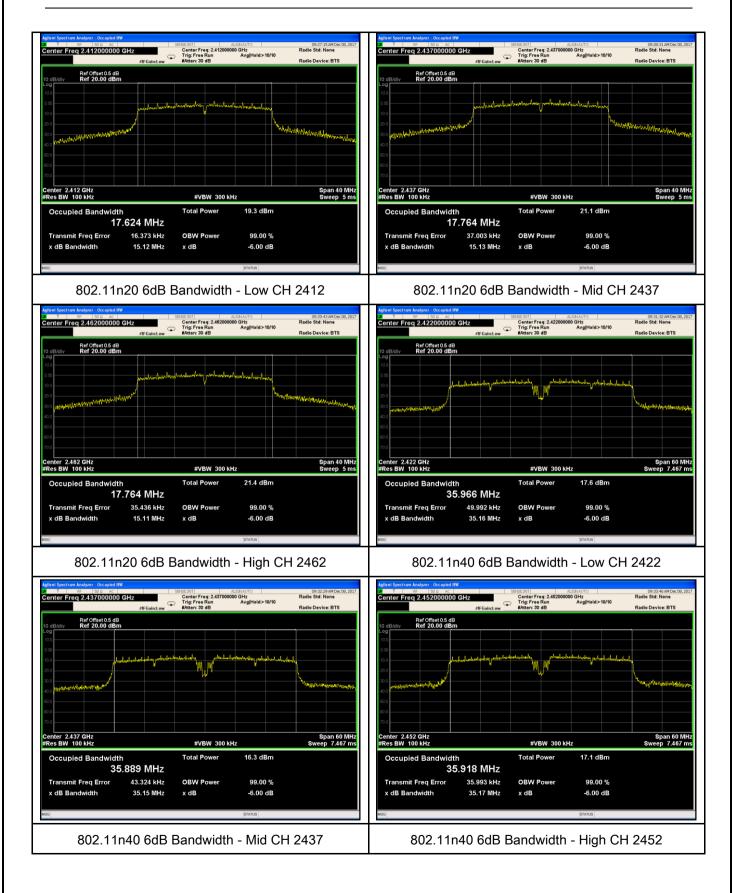
Test Plots

6dB Bandwidth measurement result





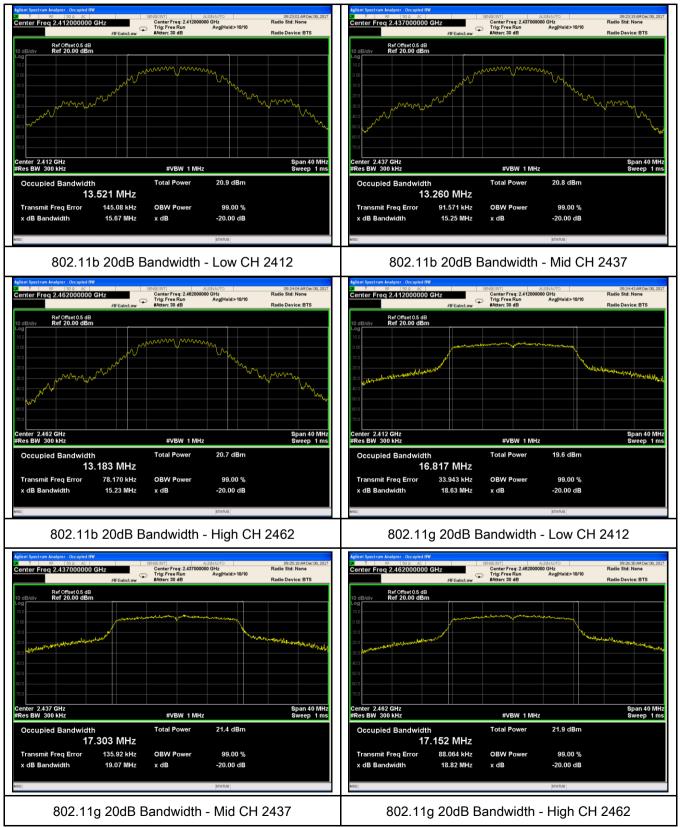
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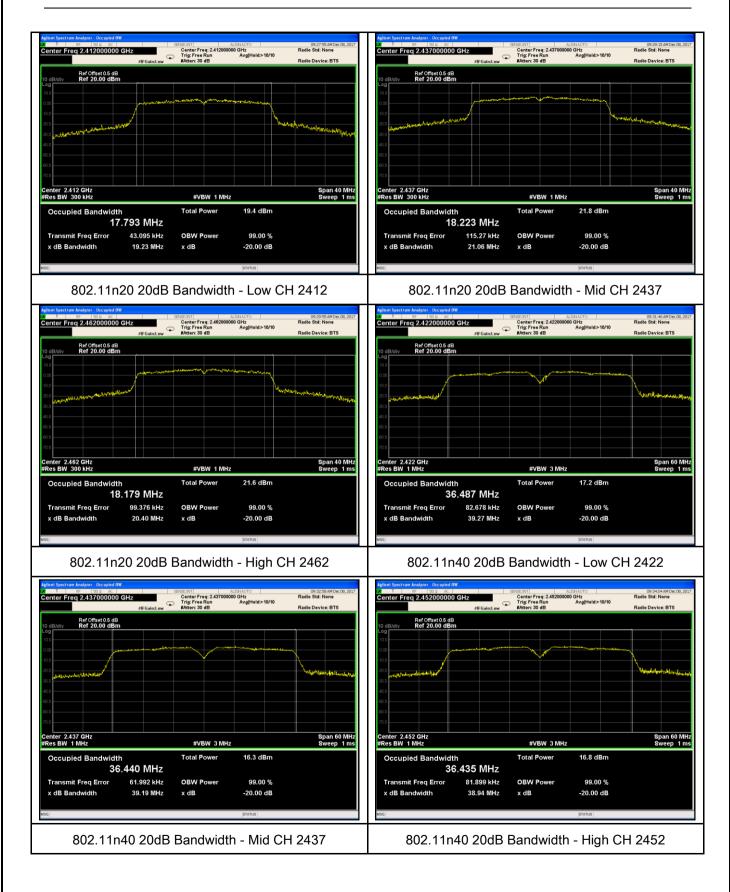
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20 dB Bandwidth measurement result





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6.3 Maximum Output Power

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

Requirement(s):

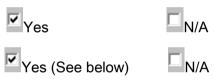
Spec	Ite Requirement				
opec	m				
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt			
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt			
§15.247(b) (3),RSS210	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.			
(A8.4)	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt			
(7.0.1)	e)	FHSS in 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				
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. Test Procedure ≤ RBW/2, so that narrowband signals are not lost between frequency bins.) - e) Sweep time = auto. - f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. - g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum					

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-				
	power control level for the entire duration of every sweep. If the EUT transmits			
	continuously (i.e., with no off intervals) or at duty cycle \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 🏼 🖆	Yes N/A			

Test Data



Test Plot

Output Power measurement result

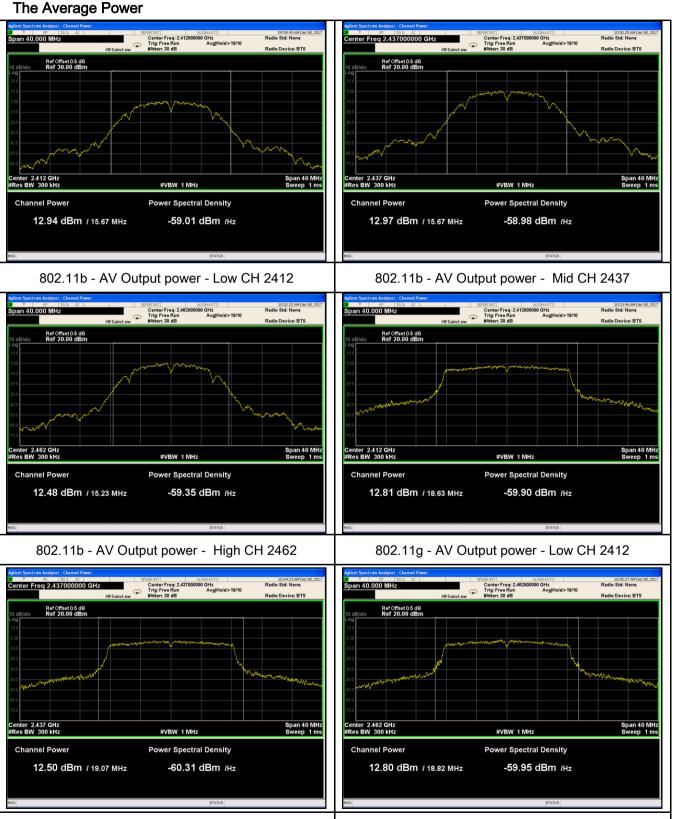
Туре	Test mode	СН	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
		Low	2412	12.94	30	Pass
	802.11b	Mid	2437	12.97	30	Pass
		High	2462	12.48	30	Pass
		Low	2412	12.81	30	Pass
	802.11g	Mid	2437	12.50	30	Pass
Output		High	2462	12.80	30	Pass
power	000.44	Low	2412	11.42	30	Pass
	802.11n	Mid	2437	11.67	30	Pass
	(20M)	High	2462	11.48	30	Pass
	802.11n (40M)	Low	2422	11.46	30	Pass
		Mid	2437	10.81	30	Pass
		High	2452	11.14	30	Pass



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802.11g - AV Output power - High CH 2462

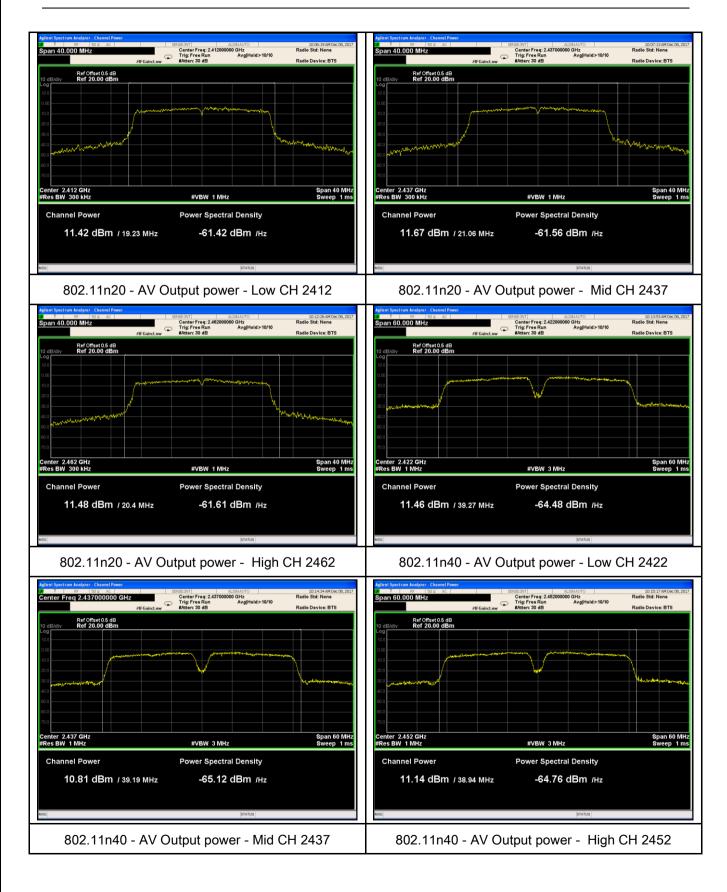
Test Plots



802.11g - AV Output power - Mid CH 2437



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6.4 Power Spectral Density

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

Spec	Item	Requirement	Applicable
§15.247(e)	a)	V	
Test Setup		Spectrum Analyzer EUT	
Test Procedure		 4 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

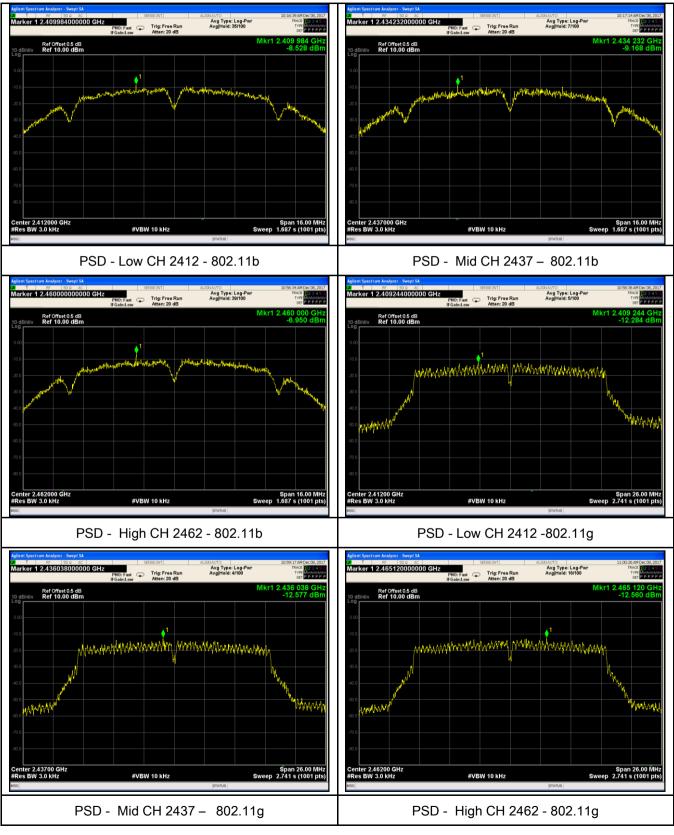
Туре	Test mode	СН	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
		Low	2412	-8.528	8	Pass
	802.11b	Mid	2437	-9.168	8	Pass
		High	2462	-6.950	8	Pass
		Low	2412	-12.284	8	Pass
8	802.11g	Mid	2437	-12.577	8	Pass
PSD		High	2462	-12.560	8	Pass
PSD	902.11-	Low	2412	-11.564	8	Pass
	802.11n	Mid	2437	-12.768	8	Pass
	(20M)	High	2462	-12.029	8	Pass
	902 11r	Low	2422	-15.256	8	Pass
	802.11n	Mid	2437	-16.609	8	Pass
	(40M)	High	2452	-16.920	8	Pass



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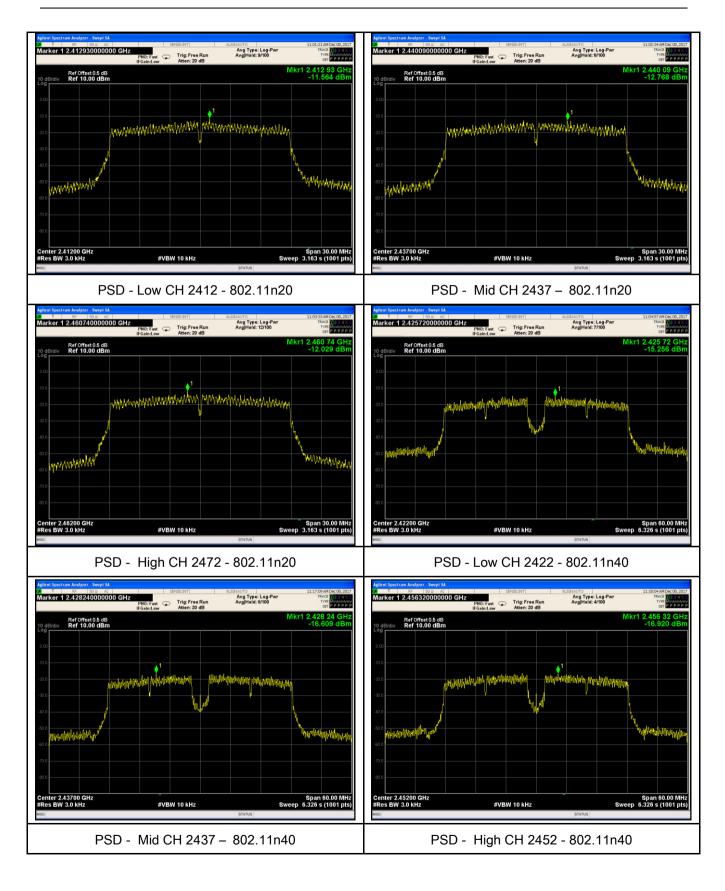
Test Plots

Power Spectral Density measurement result





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	22 °C		
Relative Humidity	53%		
Atmospheric Pressure	1008mbar		
Test date :	December 02, 2017		
Tested By :	Aaron Liang		

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 Support Units Turn Table 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			
SİF		Test Report No.	18070843-FCC-R4
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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	uency span inclusion of EUT, if particular on bandwidth and on bandwidth and on bandwidth of t th is 3MHz with P ve 1GHz. on bandwidth of to th is 10Hz with Pe pove 1GHz.	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
	- 5. Repeat abov	e proceaures un	til all measured frequencies were complete.
Remark			
Result	Pass	Fail	
Test Data	res es (See below)	N/A N/A	

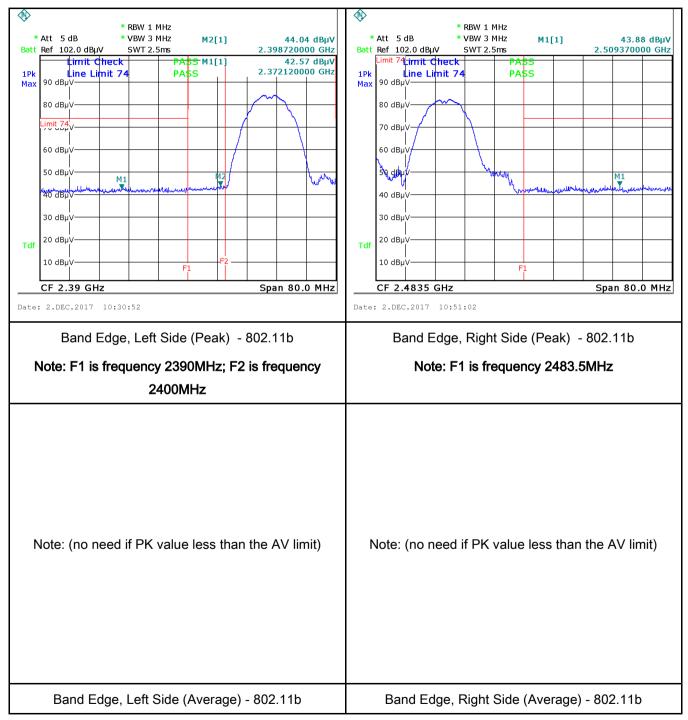


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Test Plots

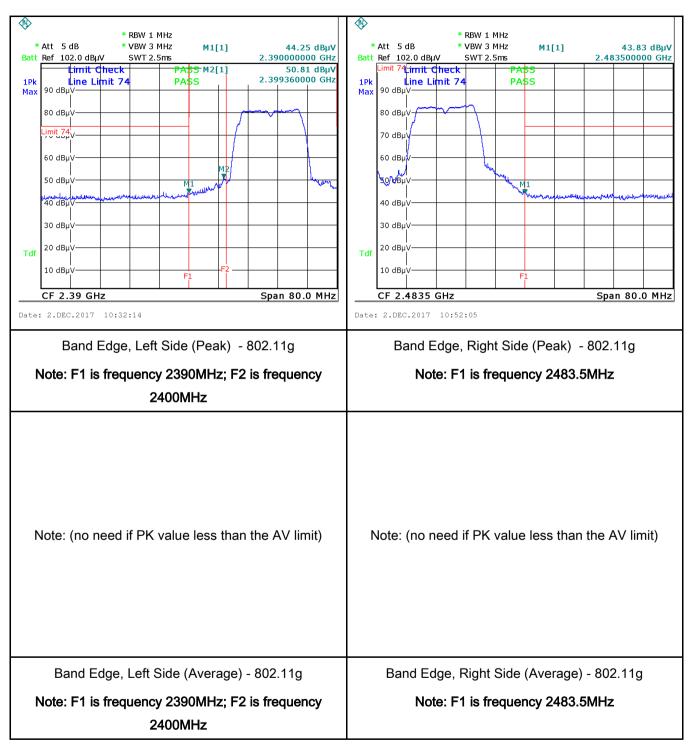
Band Edge measurement result





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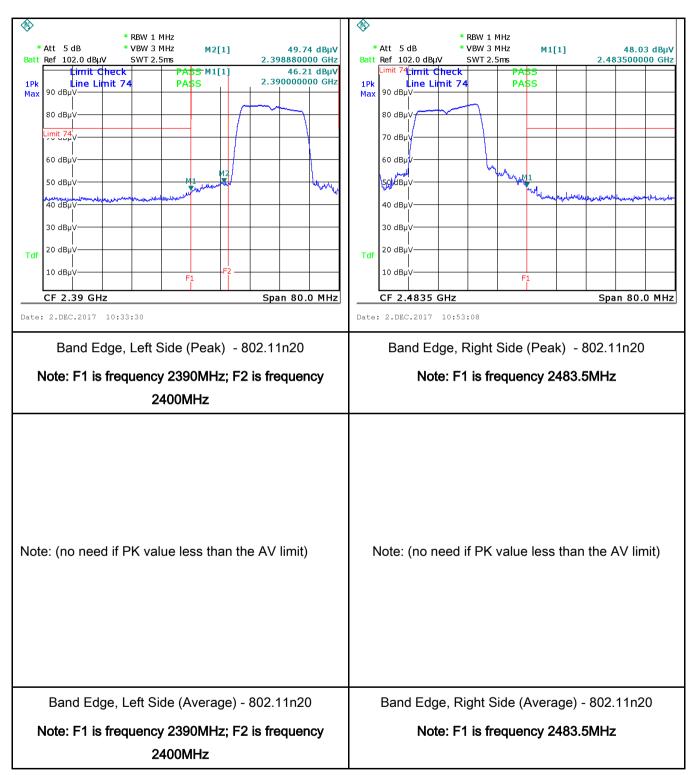
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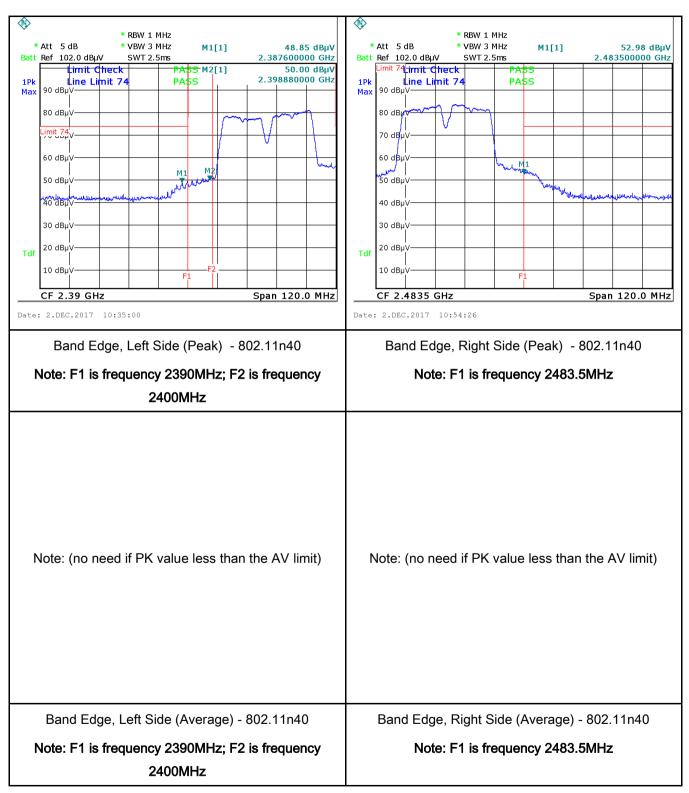
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6.6 AC Power Line Conducted Emissions

Temperature	23 °C
Relative Humidity	55%
Atmospheric Pressure	1012mbar
Test date :	December 04, 2017
Tested By :	Aaron Liang

Requirement(s):

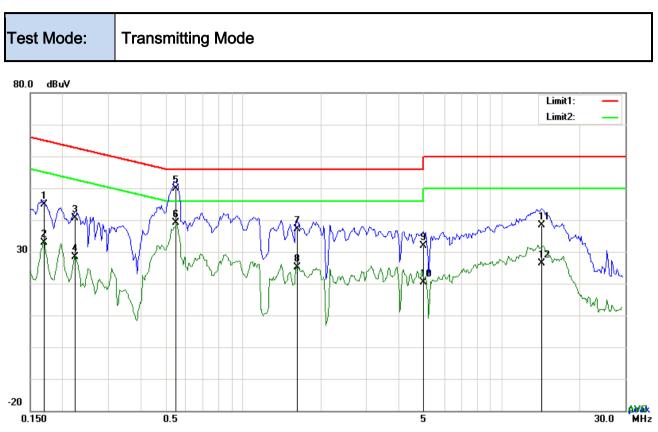
Spec	Item	Requirement		Applicable			
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-fr connected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at th Frequency ranges (MHz) $0.15 \sim 0.5$ $0.5 \sim 5$ $5 \sim 30$	V				
Test Setup		Vertical Ground Reference Plane UT UT Bocm UISN UISN UISN USE 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm					
Procedure	 The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 						

S Bureau Verit	Coaxial cable.	Test Report No. Page	18070843-FCC-R4 32 of 63
	 All other supporting ed The EUT was switched A scan was made on the over the required frequencies and selected frequencies and setting of 10 kHz. 	d on and allowed the NEUTRAL lin uency range usin the limit line, Th and the necessar	owered separately from another main supply. It to warm up to its normal operating condition. The (for AC mains) or Earth line (for DC power) and EMI test receiver. The EMI test receiver was then tuned to the any measurements made with a receiver bandwidth line (for AC mains) or DC line (for DC power).
Remark			
Result	Pass Fa	ail	
-	Yes Yes (See below)	N/A N/A	



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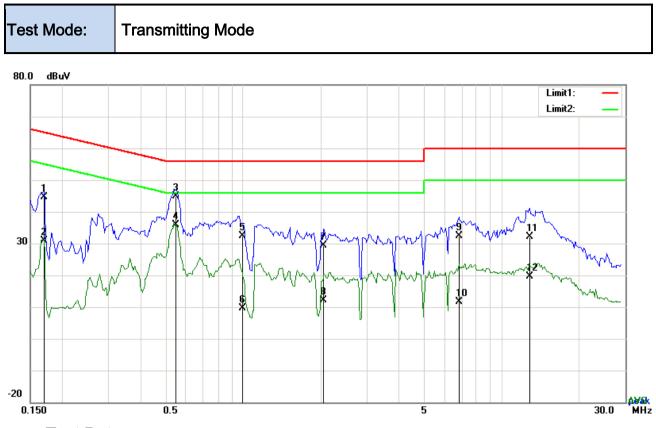
Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1695	34.74	QP	10.03	44.77	64.98	-20.21
2	L1	0.1695	22.76	AVG	10.03	32.79	54.98	-22.19
3	L1	0.2241	30.68	QP	10.03	40.71	62.67	-21.96
4	L1	0.2241	18.36	AVG	10.03	28.39	52.67	-24.28
5	L1	0.5517	39.93	QP	10.03	49.96	56.00	-6.04
6	L1	0.5517	29.17	AVG	10.03	39.20	46.00	-6.80
7	L1	1.6125	27.09	QP	10.04	37.13	56.00	-18.87
8	L1	1.6125	15.05	AVG	10.04	25.09	46.00	-20.91
9	L1	4.9578	21.71	QP	10.08	31.79	56.00	-24.21
10	L1	4.9578	10.23	AVG	10.08	20.31	46.00	-25.69
11	L1	14.2242	28.11	QP	10.21	38.32	60.00	-21.68
12	L1	14.2242	16.09	AVG	10.21	26.30	50.00	-23.70



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Test Data

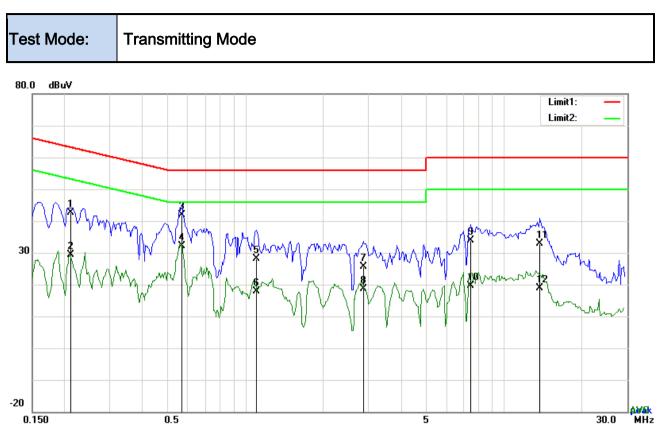
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	Ν	0.1695	34.71	QP	10.02	44.73	64.98	-20.25
2	Ν	0.1695	20.95	AVG	10.02	30.97	54.98	-24.01
3	Ν	0.5517	34.78	QP	10.02	44.80	56.00	-11.20
4	Ν	0.5517	25.74	AVG	10.02	35.76	46.00	-10.24
5	Ν	0.9944	22.26	QP	10.03	32.29	56.00	-23.71
6	Ν	0.9944	-0.41	AVG	10.03	9.62	46.00	-36.38
7	Ν	2.0532	19.26	QP	10.04	29.30	56.00	-26.70
8	Ν	2.0532	2.11	AVG	10.04	12.15	46.00	-33.85
9	Ν	6.8259	22.16	QP	10.10	32.26	60.00	-27.74
10	Ν	6.8259	1.51	AVG	10.10	11.61	50.00	-38.39
11	Ν	12.8163	22.00	QP	10.17	32.17	60.00	-27.83
12	Ν	12.8163	9.58	AVG	10.17	19.75	50.00	-30.25



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Test Data

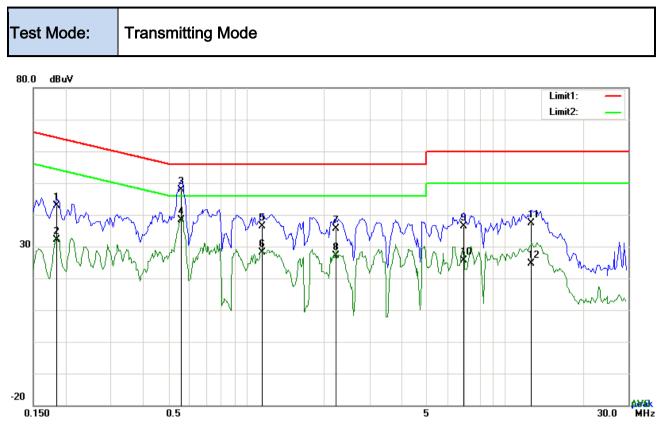
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.2124	32.71	QP	10.03	42.74	63.11	-20.37
2	L1	0.2124	19.42	AVG	10.03	29.45	53.11	-23.66
3	L1	0.5673	31.75	QP	10.03	41.78	56.00	-14.22
4	L1	0.5673	22.12	AVG	10.03	32.15	46.00	-13.85
5	L1	1.1094	17.99	QP	10.03	28.02	56.00	-27.98
6	L1	1.1094	7.74	AVG	10.03	17.77	46.00	-28.23
7	L1	2.8566	15.47	QP	10.05	25.52	56.00	-30.48
8	L1	2.8566	8.58	AVG	10.05	18.63	46.00	-27.37
9	L1	7.4538	23.70	QP	10.11	33.81	60.00	-26.19
10	L1	7.4538	9.52	AVG	10.11	19.63	50.00	-30.37
11	L1	13.7679	22.71	QP	10.21	32.92	60.00	-27.08
12	L1	13.7679	8.61	AVG	10.21	18.82	50.00	-31.18



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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	0.1851	32.86	QP	10.02	42.88	64.25	-21.37
2	Ν	0.1851	22.01	AVG	10.02	32.03	54.25	-22.22
3	Ν	0.5595	37.82	QP	10.02	47.84	56.00	-8.16
4	Ν	0.5595	28.37	AVG	10.02	38.39	46.00	-7.61
5	Ν	1.1562	26.42	QP	10.03	36.45	56.00	-19.55
6	Ν	1.1562	18.16	AVG	10.03	28.19	46.00	-17.81
7	Ν	2.2209	25.55	QP	10.04	35.59	56.00	-20.41
8	Ν	2.2209	17.08	AVG	10.04	27.12	46.00	-18.88
9	Ν	6.9468	26.23	QP	10.10	36.33	60.00	-23.67
10	Ν	6.9468	15.60	AVG	10.10	25.70	50.00	-24.30
11	Ν	12.6837	27.21	QP	10.17	37.38	60.00	-22.62
12	Ν	12.6837	14.56	AVG	10.17	24.73	50.00	-25.27



6.7 Radiated Spurious Emissions & Restricted Band

Temperature	25 °C		
Relative Humidity	57%		
Atmospheric Pressure	1015mbar		
Test date :	December 07, 2017		
Tested By :	Aaron Liang		

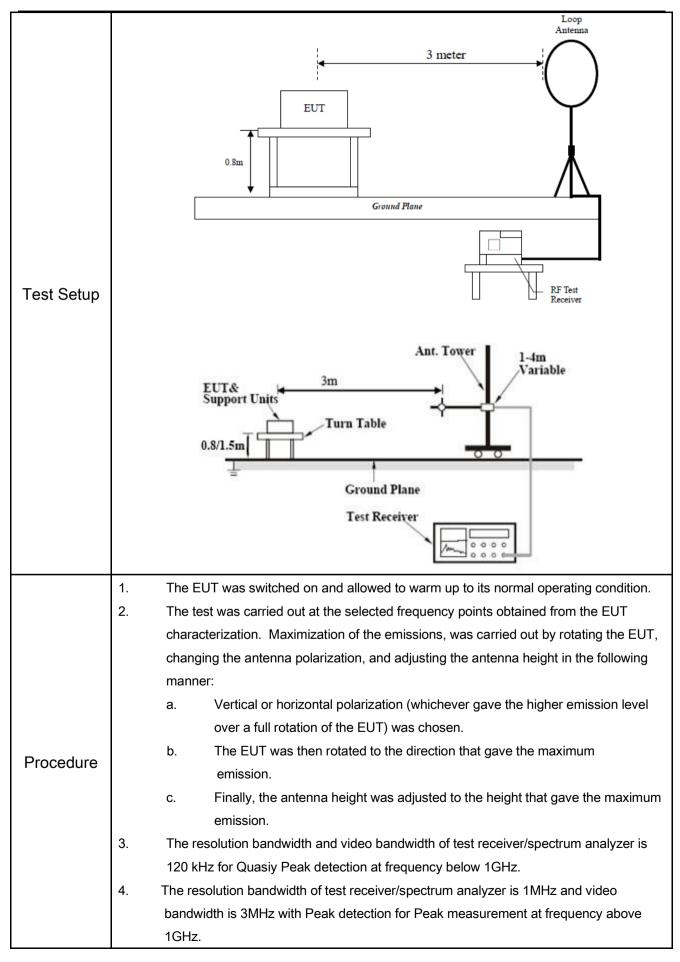
Requirement(s):

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)			
	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	V		



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	MIC tas Group Company	Test Report No. Page	18070843-FCC-R4 39 of 63	
	bandwidtl frequency 5. Steps 2 a	h is 10Hz with Peak deteo y above 1GHz.	ceiver/spectrum analyzer is 1MHz an ction for Average Measurement as be ne next frequency point, until all selec	elow at
Remark				
Result	Pass	Fail		
	Yes (See below)		



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Test Result:

Test Mode:	Transmitting Mode			

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.