RF TEST REPORT



Report No.: 17070358-FCC-R4
Supersede Report No.: N/A

Applicant BLU Products, Inc.			
Product Name	Mobile Phone		
Model No.	R2		
Serial No.	N/A		
Test Standard	FCC Part 1	5.247: 2016, ANSI C63.10: 2	2013
Test Date	June 20 to	July 04, 2017	
Issue Date	July 05, 20	17	
Test Result	Test Result Pass Fail		
Equipment complied with the specification		specification	
Equipment did no	t comply with	h the specification	
LOVEN LUO David Huang			
Loren Luo Test Engineer		David Huang Checked By	

Issued by:

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Test result presented in this test report is applicable to the tested sample only

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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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.

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
17070358-FCC-R4	NONE	Original	July 05, 2017

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

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 of	Dedicted Francisco December 17 Observe 17 O	
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0	
Test Software of	E7 FMO(100 log 0204)	
Conducted Emission	EZ-EMC(ver.lcp-03A1)	



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: R2

Serial Model: N/A

Date EUT received: June 19, 2017

Test Date(s): June 20 to July 04, 2017

Equipment Category: DTS

GSM850: -2.6dBi PCS1900: 0.7dBi

UMTS-FDD Band V: -2.6dBi UMTS-FDD Band IV: 0.5dBi

Antenna Gain:

UMTS-FDD Band II: 0.7dBi

WIFI: -2.7dBi

Bluetooth/BLE: -2.7dBi

GPS: -2.9dBi

Antenna Type: PCB antenna

GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK

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

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

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

RF Operating Frequency (ies): 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



Number of Channels:

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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: 15.46 dBm

Max. Output Power: 802.11g: 14.04 dBm

802.11n(20M): 14.28 dBm 802.11n(40M): 13.57 dBm

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II: 277CH

WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: USB Port, Earphone Port

Adapter:

Model: TPA-46050200UU

Input: AC100-240V~50/60Hz,0.3A

Output: DC 5.0V,1.5A

Input Power: Battery:

Model: C716041300P

Spec: 3.8V,3000mAh,11.4Wh

Voltage: 4.35V

Trade Name :

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

FCC ID: YHLBLUR2II



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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)	Compliance	

Measurement Uncertainty

Emissions			
Test Item	Description	Uncertainty	
Band-Edge & Unwanted Emissions into Restricted			
Frequency Bands and Radiated Emissions &	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage	+5.6dB/-4.5dB	
Unwanted Emissions into Restricted Frequency	factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)		
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/ IV/ II, the gain is -2.6dBi for GSM/ UMTS-FDD Band V, the gain is 0.7dBi for PCS/ UMTS-FDD Band II, the gain is 0.5dBi for UMTS-FDD Band IV.

A permanently attached PIFA antenna for Bluetooth/WIFI/BLE/GPS, the gain is -2.7dBi for Bluetooth/ WIFI/BLE, the gain is -2.9dBi for 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	26 °C
Relative Humidity	56%
Atmospheric Pressure	1022mbar
Test date :	June 26, 2017
Tested By :	Loren Luo

	Ι.,					
Spec	Item Requirement Appl					
§ 15.247(a)(2)	a)	~				
RSS Gen(4.6.1)	b)	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	<u>andwidth</u>				
	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					
rest Flocedule	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. S	et RBW = 1%-5% OBW.				
	2. S	et 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. O	nce the reference level is established, the equipment is con-	ditioned 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)	Limit (MHz)
	Low	2412	10.02	≥ 0.5
802.11b	Mid	2437	10.02	≥ 0.5
	High	2462	10.03	≥ 0.5
	Low	2412	15.66	≥ 0.5
802.11g	Mid	2437	15.14	≥ 0.5
	High	2462	15.34	≥ 0.5
902.445	Low	2412	15.70	≥ 0.5
802.11n	Mid	2437	15.14	≥ 0.5
(20M)	High	2462	15.89	≥ 0.5
000 44-	Low	2422	35.17	≥ 0.5
802.11n	Mid	2437	35.14	≥ 0.5
(40M)	High	2452	35.16	≥ 0.5



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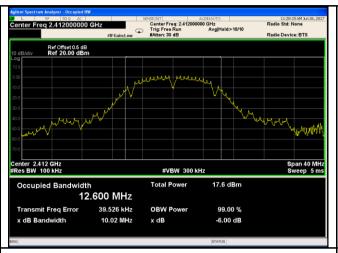
Test mode	СН	Freq (MHz)	20dB Bandwidth (MHz)
	Low	2412	14.34
802.11b	Mid	2437	14.34
	High	2462	15.18
	Low	2412	18.82
802.11g	Mid	2437	18.96
	High	2462	18.80
	Low	2412	19.31
802.11n	Mid	2437	19.37
(20M)	High	2462	19.69
902.44=	Low	2422	39.07
802.11n	Mid	2437	38.93
(40M)	High	2452	39.10

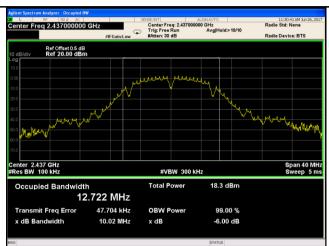


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Test Plots

6dB Bandwidth measurement result

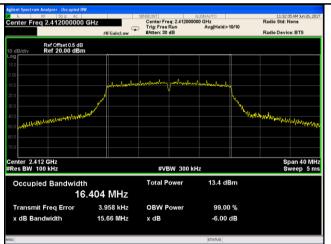




802.11b 6dB Bandwidth - Low CH 2412



802.11b 6dB Bandwidth - Mid CH 2437



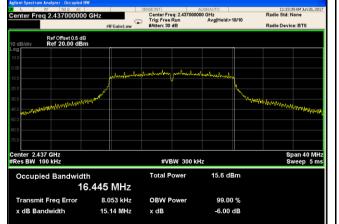
802.11b 6dB Bandwidth - High CH 2462

x dB

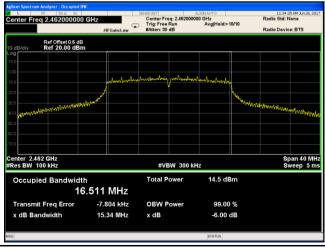
-6.00 dB

10.03 MHz

x dB Bandwidth



802.11g 6dB Bandwidth - Low CH 2412

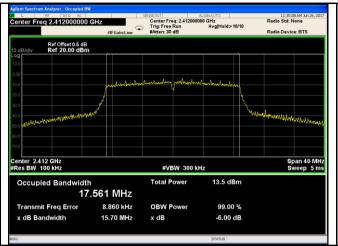


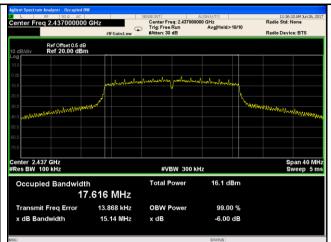
802.11g 6dB Bandwidth - Mid CH 2437

802.11g 6dB Bandwidth - High CH 2462



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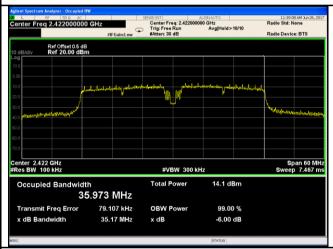




802.11n20 6dB Bandwidth - Low CH 2412

SENSE INT ALIGNAUTO
Center Freq: 2.462000000 GHz
Trig: Free Run Avg|Hold>10/10 Ref Offset 0.5 dB Ref 20.00 dBm Span 40 MHz Sweep 5 ms Center 2.462 GHz Res BW 100 kHz #VBW 300 kHz Occupied Bandwidth Total Power 14.7 dBm 17.649 MHz -2.972 kHz Transmit Freq Error **OBW Power** 99.00 % 15.89 MHz -6.00 dB x dB Bandwidth x dB

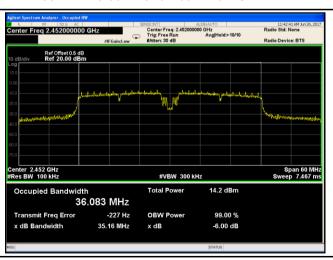
802.11n20 6dB Bandwidth - Mid CH 2437



802.11n20 6dB Bandwidth - High CH 2462



802.11n40 6dB Bandwidth - Low CH 2422



802.11n40 6dB Bandwidth - Mid CH 2437

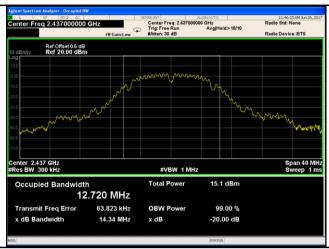
802.11n40 6dB Bandwidth - High CH 2452



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20 dB Bandwidth measurement result

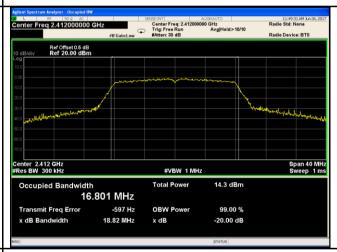




802.11b 20dB Bandwidth - Low CH 2412

802.11b 20dB Bandwidth - Mid CH 2437

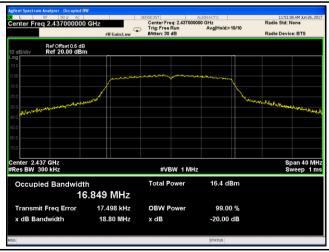




802.11b 20dB Bandwidth - High CH 2462

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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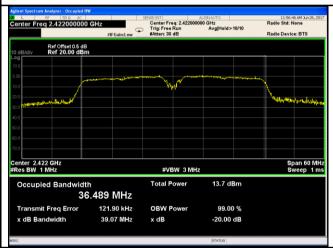




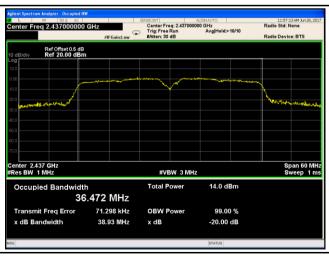
802.11n20 20dB Bandwidth - Low CH 2412



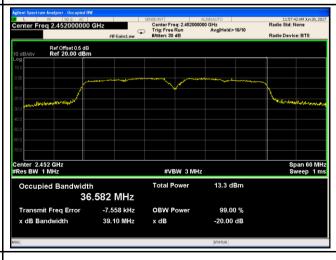
802.11n20 20dB Bandwidth - Mid CH 2437



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	26 °C
Relative Humidity	56%
Atmospheric Pressure	1022mbar
Test date :	June 26, 2017
Tested By :	Loren Luo

Requirement(s):

Requirement(s):						
Spec	Ite	Requirement	Applicable			
•	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				
(3),RSS210		Watt.	_			
(A8.4)	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt				
(* 131)	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					
558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method						
	Maxim	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	- d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing					
Procedure		≤ RBW/2, so that narrowband signals are not lost between frequer	ncy 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 a	t maximum			



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

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

Output Power measurement result

Type	Test mode	СН	Frequency	Conducted	Limit	Result
Type			(MHz)	Power (dBm)	(dBm)	
		Low	2412	14.94	30	Pass
	802.11b	Mid	2437	15.46	30	Pass
		High	2462	14.48	30	Pass
	802.11g	Low	2412	13.53	30	Pass
		Mid	2437	14.04	30	Pass
Output		High	2462	13.82	30	Pass
power	802.11n (20M)	Low	2412	13.85	30	Pass
		Mid	2437	14.28	30	Pass
		High	2462	14.11	30	Pass
	802.11n (40M)	Low	2422	13.50	30	Pass
		Mid	2437	13.30	30	Pass
		High	2452	13.57	30	Pass



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Test Plots

The Average Power





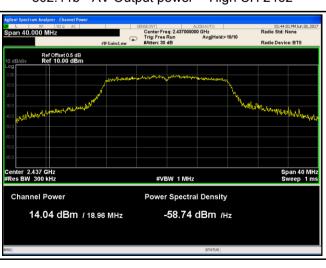
802.11b - AV Output power - Low CH 2412



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

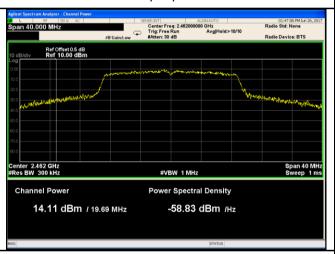


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802.11n20 - AV Output power - Low CH 2412



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	26 °C
Relative Humidity	56%
Atmospheric Pressure	1022mbar
Test date :	June 26, 2017
Tested By :	Loren Luo

Spec	Item	tem Requirement Applicable			
§15.247(e)	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	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method power spectral density measurement procedure - a) Set analyzer center frequency to DTS channel center frequency. - b) Set the span to 1.5 times the DTS bandwidth. - c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz. - d) Set the VBW ≥ 3 × RBW. - e) Detector = peak. - f) Sweep time = auto couple. - g) Trace mode = max hold. - h) Allow trace to fully stabilize. - i) Use the peak marker function to determine the maximum amplitude level within the RBW. - j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and				
Remark					
Result	Pas	ss Fail			



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Test Data	Yes	$\square_{N/A}$
Test Plot	Yes (See below)	□ _{N/A}

Power Spectral Density measurement result

Type	Test mode	СН	Freq	PSD	Limit	Result
			(MHz)	(dBm)	(dBm)	
		Low	2412	-10.400	8	Pass
	802.11b	Mid	2437	-11.620	8	Pass
		High	2462	-11.412	8	Pass
		Low	2412	-16.892	8	Pass
	802.11g	Mid	2437	-14.455	8	Pass
DCD		High	2462	-15.120	8	Pass
PSD	000 445	Low	2412	-18.078	8	Pass
	802.11n	Mid	2437	-14.797	8	Pass
	(20M)	High	2462	-15.089	8	Pass
	802.11n (40M)	Low	2422	-18.153	8	Pass
		Mid	2437	-18.131	8	Pass
		High	2452	-19.785	8	Pass



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Test Plots

Power Spectral Density measurement result

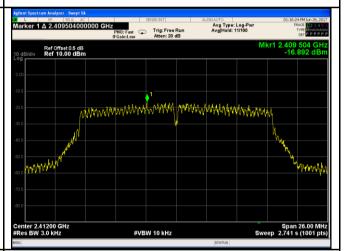




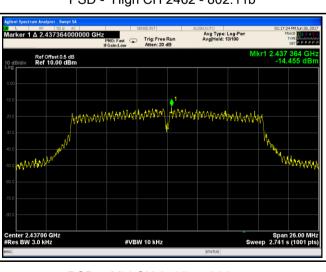
PSD - Low CH 2412 - 802.11b



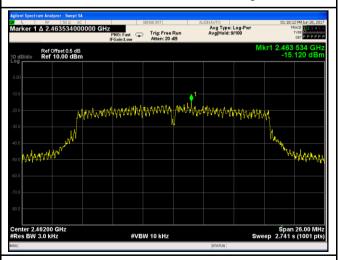
PSD - Mid CH 2437 - 802.11b



PSD - High CH 2462 - 802.11b



PSD - Low CH 2412 -802.11g

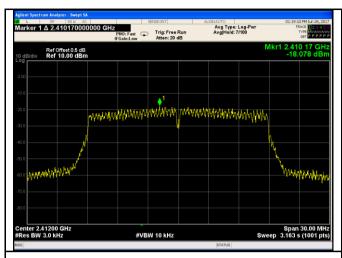


PSD - Mid CH 2437 - 802.11g

PSD - High CH 2462 - 802.11g



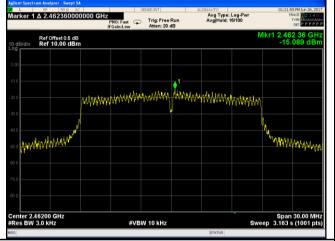
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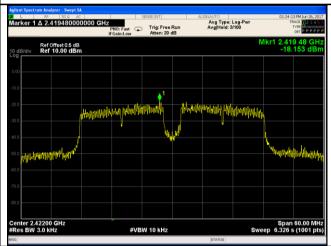


larker 1 Δ 2.438530000000 GHz Avg Type: Log-Pwr Avg|Hold: 12/100 Ref Offset 0.5 dB Ref 10.00 dBm

PSD - Low CH 2412 - 802.11n20

PSD - Mid CH 2437 - 802.11n20

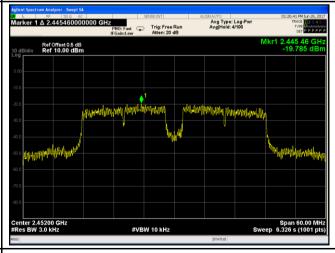




PSD - High CH 2472 - 802.11n20

PSD - Low CH 2422 - 802.11n40





PSD - Mid CH 2437 - 802.11n40

PSD - High CH 2452 - 802.11n40



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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1014mbar
Test date :	June 20, 2017
Tested By :	Loren Luo

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.		Ĭ.
Test Setup		Ant. Tower 1-4m Variable 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. 		



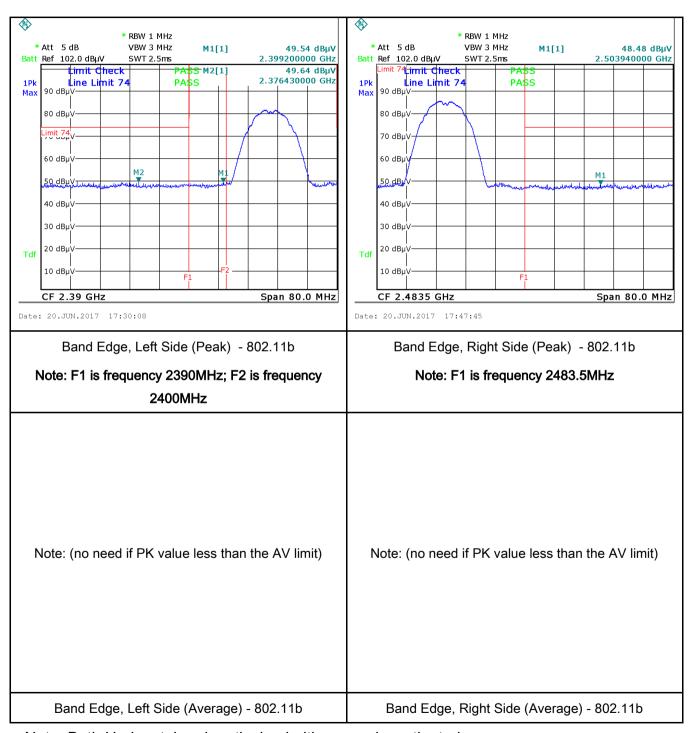
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		- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a
		convenient frequency span including 100kHz bandwidth from band edge,
		check the emission of EUT, if pass then set Spectrum Analyzer as below:
		a. The resolution bandwidth 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.
		- 5. Repeat above procedures until all measured frequencies were complete.
Remark		
Result		Pass Fail
•	•	
Took Dot-	V	es N/A
Test Data	Y	es IN/A
Test Plot	Y	es (See below)



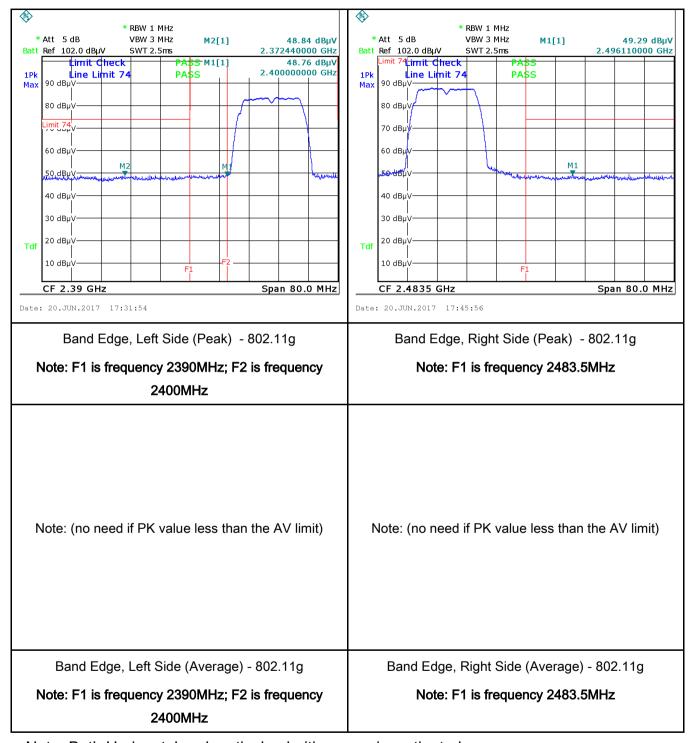
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Test Plots Band Edge measurement result





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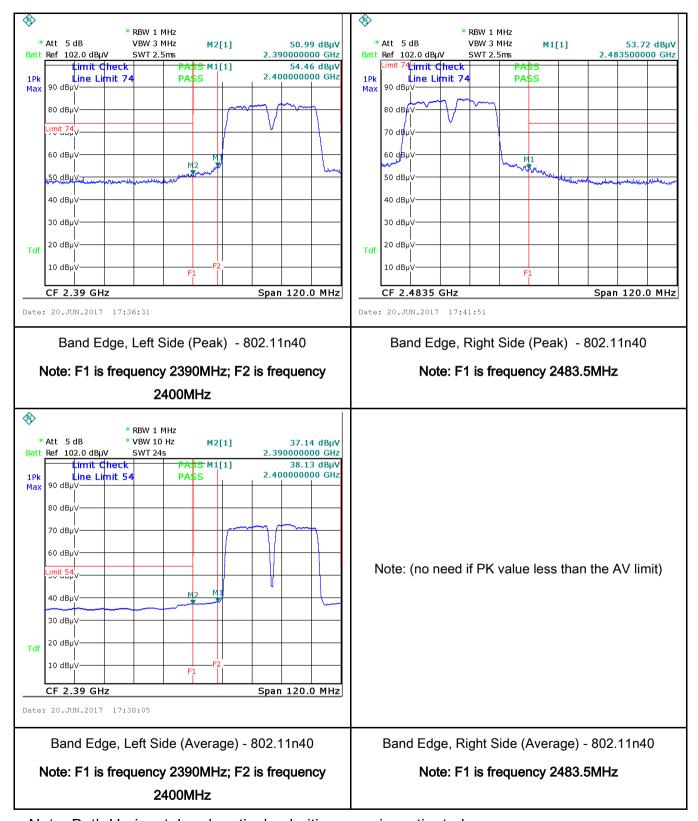


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6.6 AC Power Line Conducted Emissions

Temperature	25 °C
Relative Humidity	55%
Atmospheric Pressure	1017mbar
Test date :	June 23, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15.		For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall			
207,	a)	not exceed the limits in [mu] H/50 ohms line im	V		
RSS210	,	lower limit applies at th	<u> </u>		
(A8.1)		Frequency ranges (MHz)	Limit (,	
		0.15 ~ 0.5	66 – 56	Average 56 – 46	
		0.15 0.5	56	46	
		5 ~ 30	60	50	
Test Setup	Vertical Ground Reference Plane EUT Test Receiver				
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 				



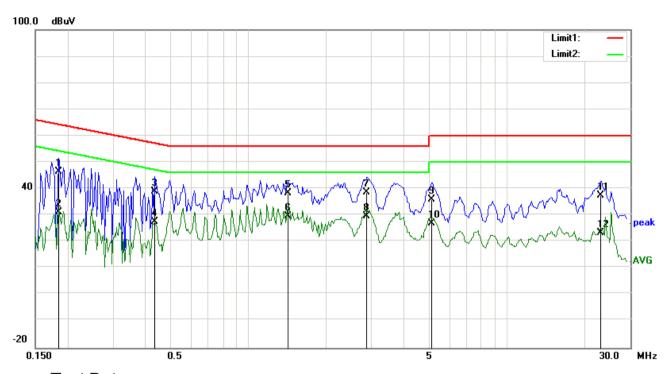
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	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth 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.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	Pass Fail
_	
Test Data	Yes N/A
Test Plot	Yes (See below)



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Test Mode: Transmitting Mode



Test Data

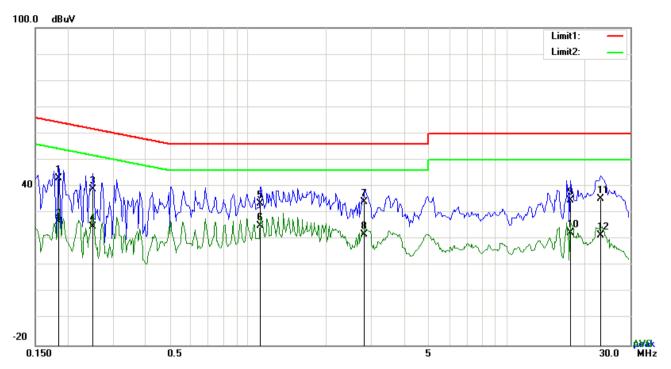
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1851	36.41	QP	10.03	46.44	64.25	-17.81
2	L1	0.1851	21.18	AVG	10.03	31.21	54.25	-23.04
3	L1	0.4347	28.82	QP	10.03	38.85	57.16	-18.31
4	L1	0.4347	17.52	AVG	10.03	27.55	47.16	-19.61
5	L1	1.4214	28.30	QP	10.04	38.34	56.00	-17.66
6	L1	1.4214	19.74	AVG	10.04	29.78	46.00	-16.22
7	L1	2.8761	28.51	QP	10.05	38.56	56.00	-17.44
8	L1	2.8761	19.71	AVG	10.05	29.76	46.00	-16.24
9	L1	5.1372	25.80	QP	10.08	35.88	60.00	-24.12
10	L1	5.1372	16.77	AVG	10.08	26.85	50.00	-23.15
11	L1	23.1240	26.99	QP	10.36	37.35	60.00	-22.65
12	L1	23.1240	13.11	AVG	10.36	23.47	50.00	-26.53



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Test Mode: Transmitting Mode



Test Data

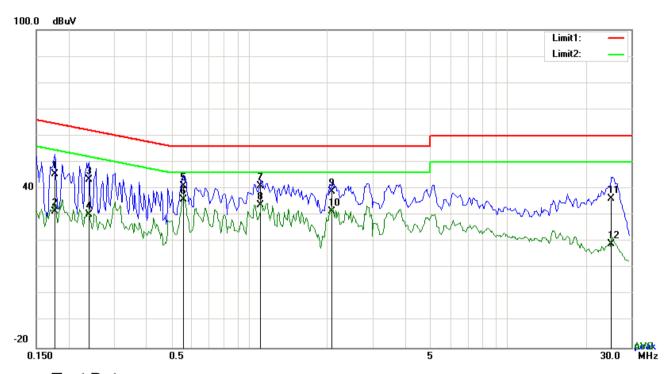
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	N	0.1851	33.12	QP	10.02	43.14	64.25	-21.11
2	N	0.1851	16.73	AVG	10.02	26.75	54.25	-27.50
3	N	0.2514	29.00	QP	10.02	39.02	61.71	-22.69
4	N	0.2514	14.76	AVG	10.02	24.78	51.71	-26.93
5	N	1.1172	23.50	QP	10.03	33.53	56.00	-22.47
6	N	1.1172	15.19	AVG	10.03	25.22	46.00	-20.78
7	N	2.8098	24.23	QP	10.05	34.28	56.00	-21.72
8	N	2.8098	11.91	AVG	10.05	21.96	46.00	-24.04
9	N	17.5782	24.67	QP	10.23	34.90	60.00	-25.10
10	N	17.5782	12.24	AVG	10.23	22.47	50.00	-27.53
11	N	23.0538	24.91	QP	10.31	35.22	60.00	-24.78
12	N	23.0538	11.10	AVG	10.31	21.41	50.00	-28.59



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Test Mode: Transmitting Mode



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	0.1773	35.41	QP	10.03	45.44	64.61	-19.17
2	L1	0.1773	21.29	AVG	10.03	31.32	54.61	-23.29
3	L1	0.2397	33.33	QP	10.03	43.36	62.11	-18.75
4	L1	0.2397	20.10	AVG	10.03	30.13	52.11	-21.98
5	L1	0.5556	31.14	QP	10.03	41.17	56.00	-14.83
6	L1	0.5556	25.86	AVG	10.03	35.89	46.00	-10.11
7	L1	1.1094	30.89	QP	10.03	40.92	56.00	-15.08
8	L1	1.1094	23.71	AVG	10.03	33.74	46.00	-12.26
9	L1	2.0961	28.89	QP	10.04	38.93	56.00	-17.07
10	L1	2.0961	21.53	AVG	10.04	31.57	46.00	-14.43
11	L1	25.1208	25.80	QP	10.40	36.20	60.00	-23.80
12	L1	25.1208	8.90	AVG	10.40	19.30	50.00	-30.70