# RF TEST REPORT



Report No.: 16071279-FCC-R2\_V1

Supersede Report No.: N/A

Applicant	BLU Products, Inc.			
Product Name	Mobile Phone			
Model No.	Vivo5 Mini			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2015,	ANSI C63.10: 2	013
Test Date	November	November 01 to 11, 2016		
Issue Date	November 21, 2016			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Token mo		David	Huang	
Loren Luo Test Engineer			I Huang ked By	

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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**

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### **Accreditations for Conformity Assessment**

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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# 1. Report Revision History

Report No.	Report Version	Description	Issue Date
16071279-FCC-R2	NONE	Original (Obsolete)	November 11, 2016
		Adding the Band IV of	
		Antenna Requirement on	
16071279-FCC-R2_V1	V1	Page 9; And replacing the	November 21, 2016
		picture of fixed frequency	
		bandedge on the left	

# 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	Radiated Emission Program-To Shenzhen v2.0



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# 4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: Vivo5 Mini

Serial Model: N/A

Date EUT received: October 31, 2016

Test Date(s): November 01 to 11, 2016

GSM850: -4.7dBi

PCS1900: -3.0dBi

UMTS-FDD Band V: -4.0dBi

Antenna Gain: UMTS-FDD Band II: -3.5dBi

UMTS-FDD Band IV: -3.5dBi Bluetooth/BLE/WIFI: -4.3dBi

GPS: -4.0dBi

GSM / GPRS: GMSK

EGPRS: GMSK

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

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

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

RX: 2112.4 ~ 2152.6 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz



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Max. Output Power: 6.053dBm

Equipment Category : DSS

GSM 850: 124CH PCS1900: 299CH

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

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

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

WIFI :802.11n(40M): 7CH

Bluetooth: 79CH BLE: 40CH

GPS:1CH

Port: Power Port, Earphone Port, USB Port

Antenna Type: PIFA antenna

Adapter:

Model: US-ZC-0600

Input: AC100-240V~50/60Hz,0.2A

Output: DC 5.0V-600mA

Input Power: Battery:

Model: C655339150L

Voltage: 3.8V

Battery Capacity: 1500mAh,5.7Wh

Trade Name : BLU

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

FCC ID: YHLBLUVIVO5MN



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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)(1)	Channel Separation	Compliance
§15.247(a)(1)	20 dB Bandwidth	Compliance
§15.247(b)(1)	Peak Output Power	Compliance
§15.247(a)(1)(iii)	Number of Hopping Channel	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(d)	Band Edge& Restricted Band	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions& Restricted Band	Compliance

### **Measurement Uncertainty**

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



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### 6. Measurements, Examination And Derived Results

### 6.1 Antenna Requirement

#### Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### Antenna Connector Construction

The EUT has 2 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI/GPS, the gain is -4.3dBi for Bluetooth/BLE/WIFI, -4.0dBi for GPS.

A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is -4.7dBi for GSM850, -3.0dBi for PCS1900, -4.0dBi for UMTS-FDD Band V, -3.5dBi for UMTS-FDD Band II/Band IV.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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# 6.2 Channel Separation

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	November 08, 2016
Tested By :	Loren Luo

Spec	Item	Requirement Applicable		
§ 15.247(a)(1)	a)	Channel Separation < 20dB BW and 20dB BW < 25KHz; Channel Separation Limit=25KHz Chanel Separation < 20dB BW and 20dB BW > 25kHz; Channel Separation Limit=2/3 20dB BW	<b>V</b>	
Test Setup		Spectrum Analyzer EUT		
Test Procedure		est follows FCC Public Notice DA 00-705 Measurement one following spectrum analyzer settings:  The EUT must have its hopping function enabled  Span = wide enough to capture the peaks of two adjact channels  Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW  Sweep = auto  Detector function = peak  Trace = max hold  Allow the trace to stabilize. Use the marker-delta function determine the separation between the peaks of the adjackannels. The limit is specified in one of the subparagrams Section. Submit this plot.	ent on to acent	
Remark				
Result	Pas	ss Fail		



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Test Data

Test Plot

Yes

Yes (See below)

□<sub>N/A</sub>

# Channel Separation measurement result

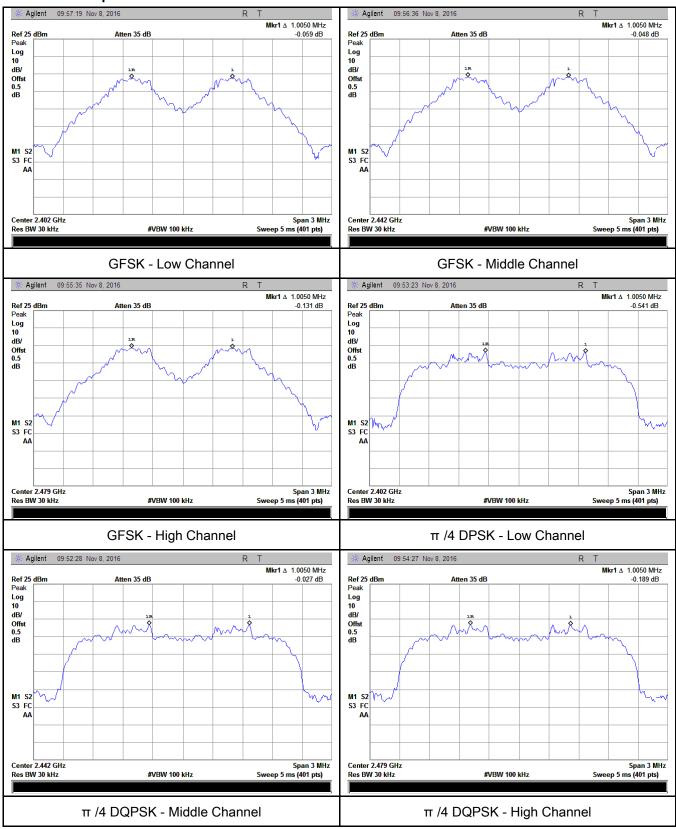
Type/ Modulation	СН	CH Frequency (MHz)	CH Separation (MHz)	Limit (MHz)	Result
	Low Channel	2402	1.005	0.693	Pass
	Adjacency Channel	2403	1.005	0.093	Pa55
CH Separation	Mid Channel	2440	1.005	0.689	Pass
GFSK	Adjacency Channel	2441	1.005	0.009	Pass
	High Channel	2480	1.005	0.685	Pass
	Adjacency Channel	2479	1.005	0.000	Pass
	Low Channel	2402	1.005	0.861	Pass
	Adjacency Channel	2403	1.005	0.001	Pass
CH Separation	Mid Channel	2440	1.005	0.861	Pass
π /4 DQPSK	Adjacency Channel	2441	1.005	0.001	Pass
	High Channel	2480	1.005	0.064	Dees
	Adjacency Channel	2479	1.005	0.864	Pass
	Low Channel	2402	4.005	0.004	Dese
	Adjacency Channel	2403	1.005	0.861	Pass
CH Separation	Mid Channel	2440	4.005	0.000	Dana
8DPSK	Adjacency Channel	2441	1.005	0.869	Pass
	High Channel	2480	4.005	0.004	Dest
	Adjacency Channel	2479	1.005	0.861	Pass



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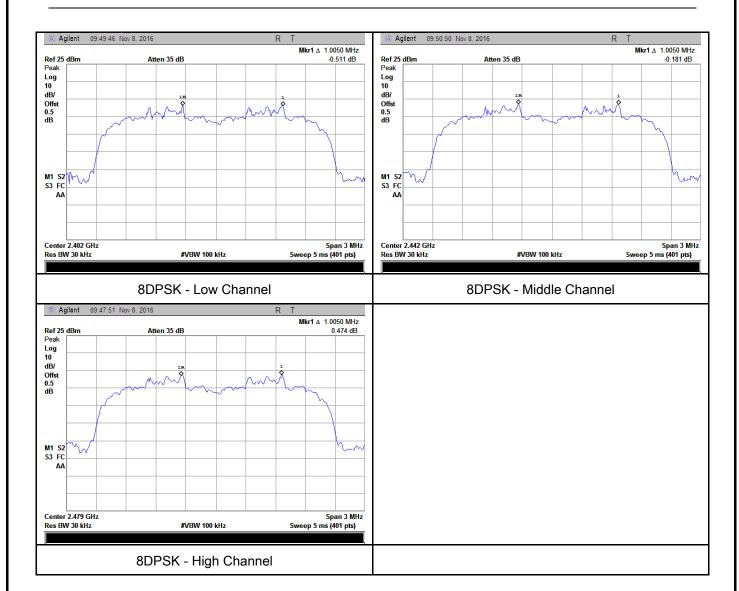
#### **Test Plots**

### **Channel Separation measurement result**





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# 6.3 20dB Bandwidth

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	November 08, 2016
Tested By :	Loren Luo

Spec	Item	Applicable			
		Frequency hopping systems shall have hopping			
§15.247(a)	-\	channel carrier frequencies separated by a minimum			
(1)	(a)	of 25 kHz or the 20 dB bandwidth of the hopping	~		
		channel, whichever is greater.			
Test Setup	Spectrum Analyzer EUT				
	The te	st follows FCC Public Notice DA 00-705 Measurement Gu	uidelines.		
	Use th	e following spectrum analyzer settings:			
	-	Span = approximately 2 to 3 times the 20 dB bandwidth,	centered on		
		a hopping channel			
	-	RBW ≥ 1% of the 20 dB bandwidth			
	-	VBW ≥ RBW			
	- Sweep = auto				
Test	- Detector function = peak				
	- Trace = max hold.				
Procedure	The EUT should be transmitting at its maximum data rate. Allow the				
	trace to stabilize. Use the marker-to-peak function to set the marker				
	to the peak of the emission. Use the marker-delta function to				
	measure 20 dB down one side of the emission. Reset the marker-				
	delta function, and move the marker to the other side of the				
	emission, until it is (as close as possible to) even with the reference				
		marker level. The marker-delta reading at this point is the	20 dB		
		bandwidth of the emission. If this value varies with differe	nt modes of		



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		operation (e.g., data rate, modulation format, etc.), repeat this test for		
		each variation. The limit is specified in one of the subparagraphs of		
		this Sec	ction. Submit this plot(s).	
Remark				
Result		Pass	☐ Fail	
Test Data	Y	es	□ <sub>N/A</sub>	
Test Plot	Yes (See below)		N/A	

### Measurement result

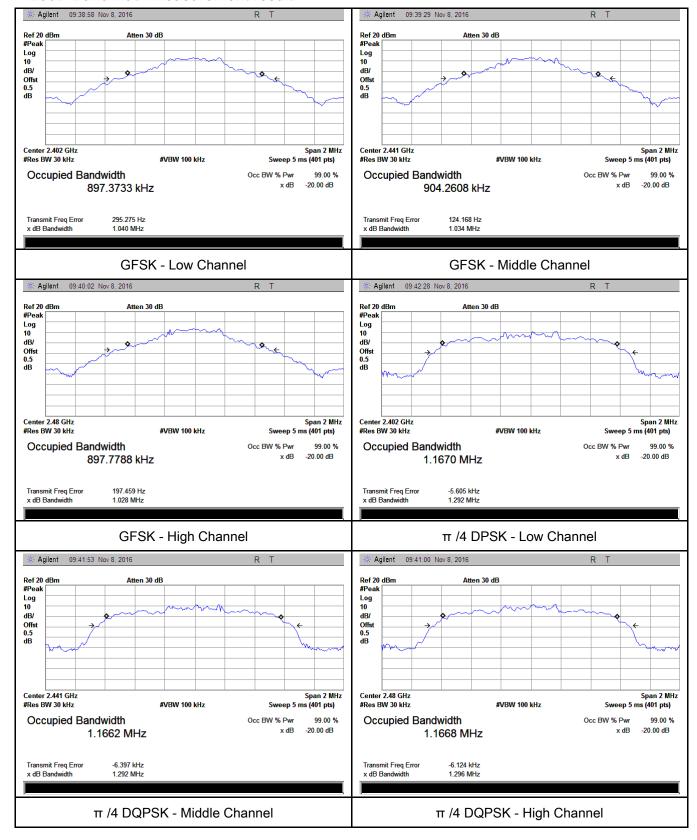
Modulation	СН	CH Frequency	20dB Bandwidth	99% Occupied
Modulation	C	(MHz)	(MHz)	Bandwidth (MHz)
	Low	2402	1.040	0.8974
GFSK	Mid	2441	1.034	0.9043
	High	2480	1.028	0.8978
π /4 DQPSK	Low	2402	1.292	1.1670
	Mid	2441	1.292	1.1662
	High	2480	1.296	1.1668
	Low	2402	1.291	1.1689
8-DPSK	Mid	2441	1.303	1.1706
	High	2480	1.291	1.1665



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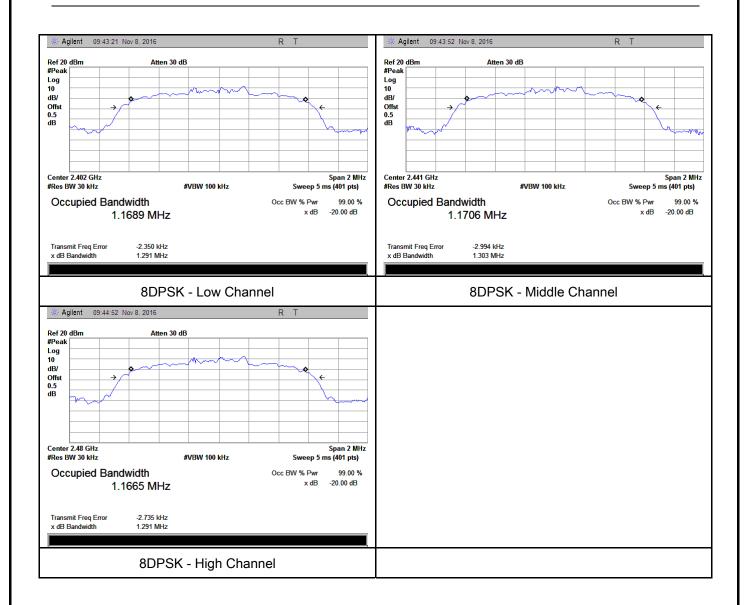
#### **Test Plots**

### 20dB Bandwidth measurement result





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# 6.4 Peak Output Power

Temperature	25℃
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	November 08, 2016
Tested By :	Loren Luo

Spec	Item	Item Requirement Applicable		
	٥)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1	<u>&lt;</u>	
	a)	Watt		
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt		
\$15 047/b\	-\	For all other FHSS in the 2400-2483.5MHz band:	V	
§15.247(b) (3)	c)	≤ 0.125 Watt.		
(3)	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt		
	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		
	The test follows FCC Public Notice DA 00-705 Measurement Guidelines.			
	Use the following spectrum analyzer settings:			
	- Span = approximately 5 times the 20 dB bandwidth, centered on a			
	hopping channel			
<b>.</b>	- RBW > the 20 dB bandwidth of the emission being measured			
Test - VBW ≥ RBW				
Procedure	- Sweep = auto			
	-	Detector function = peak		
	- Trace = max hold			
	- Allow the trace to stabilize.			
	Use the marker-to-peak function to set the marker to the peak of the			
	emission. The indicated level is the peak output power (see the note			



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			egarding external attenuation and cable loss). The limit is d in one of the subparagraphs of this Section. Submit this
			а на село се и на село раз объект на село на с
		plot. A p	beak responding power meter may be used instead of a
		spectrur	m analyzer.
Remark			
Result		Pass	Fail
Test Data	Y	'es	□ <sub>N/A</sub>
Test Plot	Y	es (See below)	□ <sub>N/A</sub>

### Peak Output Power measurement result

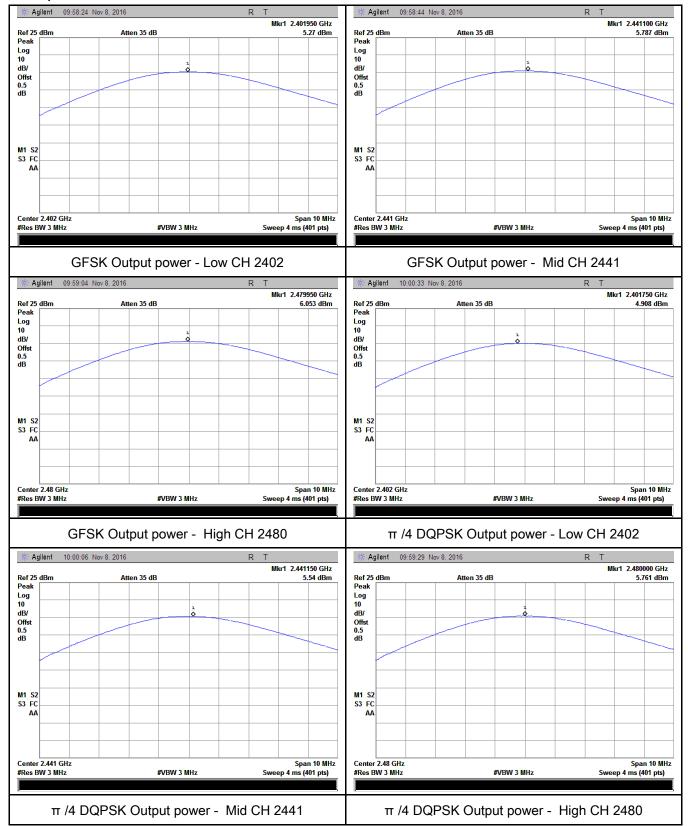
Туре	Modulation	СН	Frequenc y (MHz)	Conducted Power (dBm)	Limit (mW)	Result
		Low	2402	5.270	125	Pass
	GFSK	Mid	2441	5.787	125	Pass
Output power		High	2480	6.053	125	Pass
	π /4 DQPSK	Low	2402	4.908	125	Pass
		Mid	2441	5.540	125	Pass
		High	2480	5.761	125	Pass
		Low	2402	5.041	125	Pass
	8-DPSK	Mid	2441	5.792	125	Pass
		High	2480	6.023	125	Pass



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#### **Test Plots**

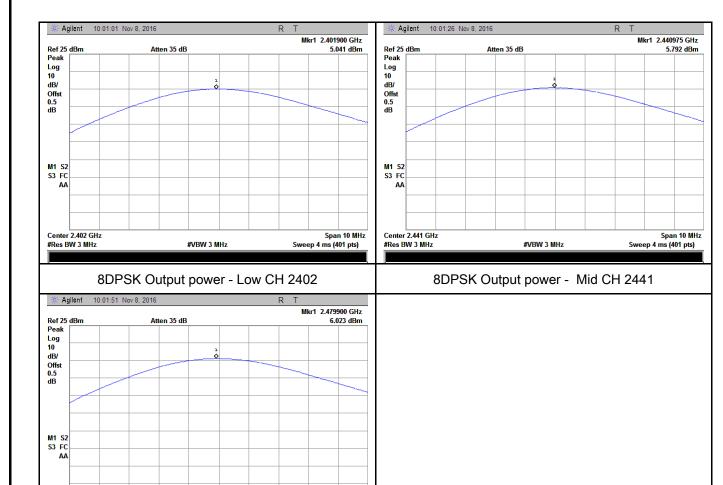
#### **Output Power measurement result**





Center 2.48 GHz #Res BW 3 MHz

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Span 10 MHz Sweep 4 ms (401 pts)

#VBW 3 MHz

8DPSK Output power - High CH 2480



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# 6.5 Number of Hopping Channel

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	November 08, 2016
Tested By:	Loren Luo

- 10 quii o (0).					
Spec	Item	Requirement	Applicable		
§15.247(a) (1)(iii)	a)	FHSS in 2400-2483.5MHz ≥ 15 channels	V		
Test Setup		Spectrum Analyzer EUT			
	The tes	st follows FCC Public Notice DA 00-705 Measurement Gu	iidelines.		
	Use the following spectrum analyzer settings:				
	The EUT must have its hopping function enabled.				
	- Span = the frequency band of operation				
	- RBW ≥ 1% of the span				
Test	- VBW≥ RBW				
Procedure	- Sweep = auto				
i rocedure	- Detector function = peak				
	- Trace = max hold				
	- Allow trace to fully stabilize.				
	It may prove necessary to break the span up to sections, in order to				
	clearly show all of the hopping frequencies. The limit is specified in				
		one of the subparagraphs of this Section. Submit this plot	(s).		
Remark					
Result	Pas	s Fail			
Test Data	Yes	□ <sub>N/A</sub>			
Test Plot	Yes (See	below) N/A			



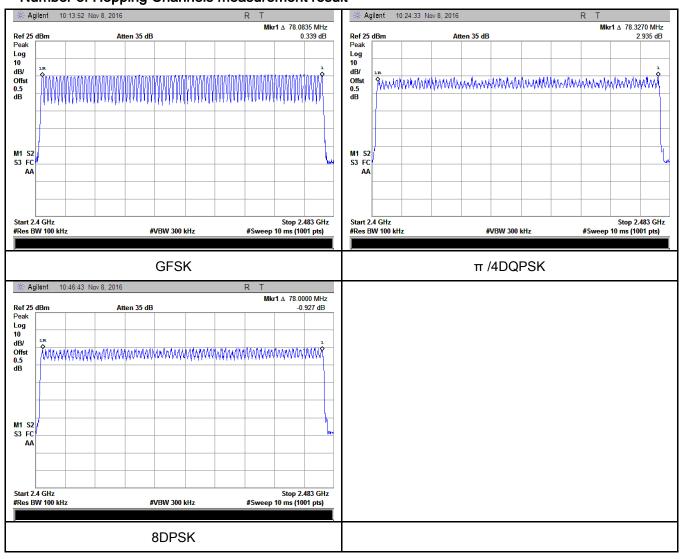
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### Number of Hopping Channel measurement result

Туре	Modulation	Frequency Range	Number of Hopping Channel	Limit
Number of Hopping Channel	GFSK	2400-2483.5	79	15
	π /4 DQPSK	2400-2483.5	79	15
	8-DPSK	2400-2483.5	79	15

#### **Test Plots**

### Number of Hopping Channels measurement result





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# 6.6 Time of Occupancy (Dwell Time)

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	November 08, 2016
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable		
§15.247(a) (1)(iii)	a)	Dwell Time < 0.4s	<b>V</b>		
Test Setup	Spectrum Analyzer EUT				
Test Procedure	The test follows FCC Public Notice DA 00-705 Measurement Guidelines.  Use the following spectrum analyzer  - Span = zero span, centered on a hopping channel  - RBW = 1 MHz  - VBW ≥ RBW  - Sweep = as necessary to capture the entire dwell time per hopping channel  - Detector function = peak  - Trace = max hold  - use the marker-delta function to determine the dwell time				
Remark					
Result	Pas	s Fail			

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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### Dwell Time measurement result

Modulation	СН	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
	Low	2.950	314.667	400	Pass
GFSK	Mid	2.950	314.667	400	Pass
	High	2.925	312.000	400	Pass
π /4 DQPSK	Low	2.925	312.000	400	Pass
	Mid	2.950	314.667	400	Pass
	High	2.925	312.000	400	Pass
8-DPSK	Low	2.925	312.000	400	Pass
	Mid	2.925	312.000	400	Pass
	High	2.950	314.667	400	Pass
	GFSK π /4 DQPSK	GFSK Mid High  Low  π /4 DQPSK Mid  High  Low  S-DPSK Mid	Modulation         CH         (ms)           Low         2.950           Mid         2.950           High         2.925           Low         2.925           Mid         2.950           High         2.925           Low         2.925           Low         2.925           Mid         2.925           Mid         2.925	ModulationCH (ms)(ms)Low2.950314.667Mid2.950314.667High2.925312.000Low2.925312.000Mid2.950314.667High2.925312.000Low2.925312.000Low2.925312.0008-DPSKMid2.925312.000	ModulationCH (ms)(ms) (ms)(ms)GFSKMid2.950314.667400High2.950312.000400Low2.925312.000400ΔMid2.925312.000400High2.950314.667400High2.925312.000400Low2.925312.0004008-DPSKMid2.925312.000400

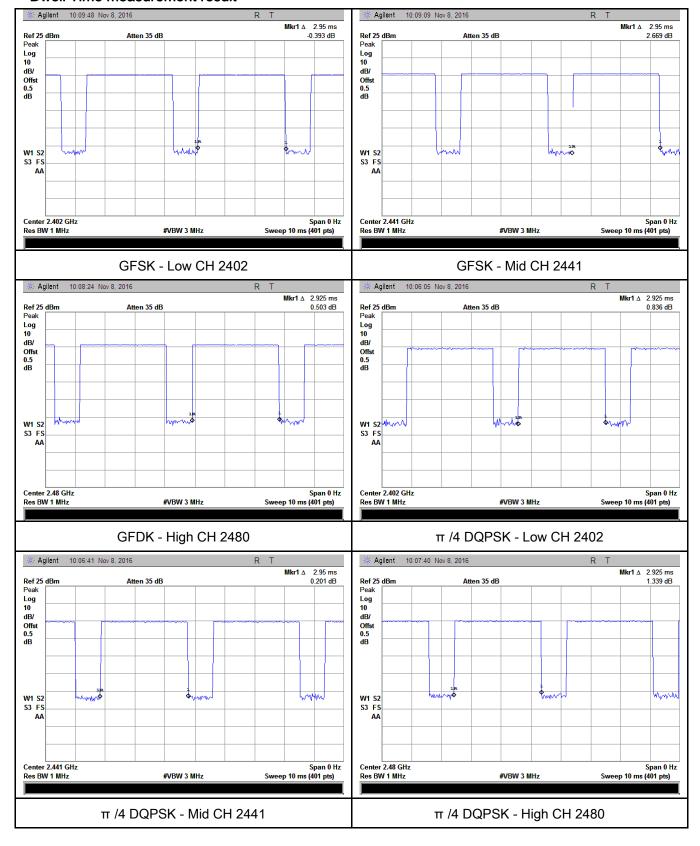
Note: Dwell time=Pulse Time (ms) × (1600  $\div$  6  $\div$  79) ×31.6



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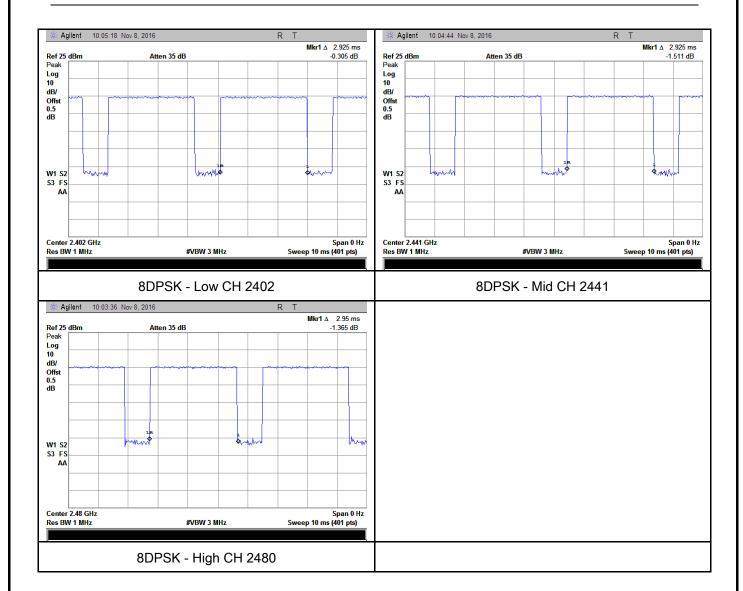
#### **Test Plots**

### Dwell Time measurement result





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# 6.7 Band Edge & Restricted Band

Temperature	22°C
Relative Humidity	51%
Atmospheric Pressure	1009mbar
Test date :	November 09 & 18, 2016
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	N. C.	
Test Setup	Peak conducted power limits.  Ant. Tower  Support Units  Ground Plane  Test Receiver		
Test Procedure	The test follows FCC Public Notice DA 00-705 Measurement Guidelines.  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. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a		



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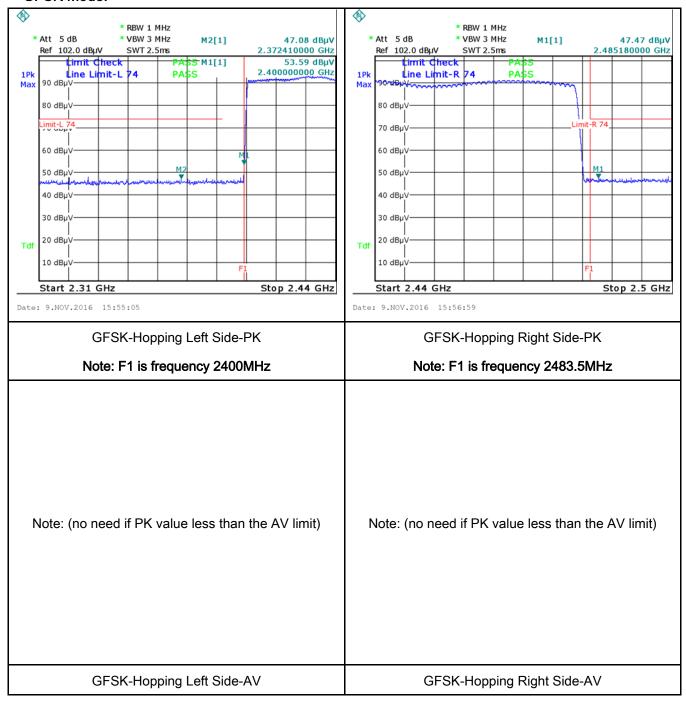
		convenien	t frequency span including 100kHz bandwidth from band edge, check
		the emissi	on of EUT, if pass then set Spectrum Analyzer as below:
		a. The res	olution bandwidth and video bandwidth of test receiver/spectrum
		analyzer is	120 kHz for Quasiy Peak detection at frequency below 1GHz.
		b. The res	olution bandwidth of test receiver/spectrum analyzer is 1MHz and
		video band	width is 3MHz with Peak detection for Peak measurement at
		frequency	above 1GHz.
		c. The reso	olution bandwidth of test receiver/spectrum analyzer is 1MHz and the
		video band	dwidth is 10Hz with Peak detection for Average Measurement as
		below at fr	equency above 1GHz.
		- 4. Measure	e the highest amplitude appearing on spectral display and set it as a
		reference l	evel. 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
Test Data	$\square_{Y}$	'es	N/A
Test Plot	Y	es (See below)	□ <sub>N/A</sub>



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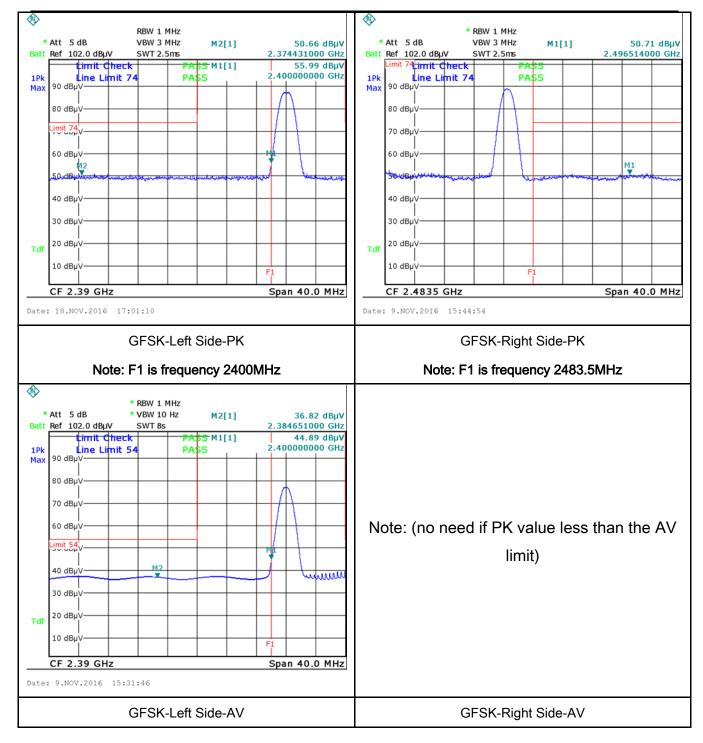
#### **Test Plots**

#### **GFSK Mode:**





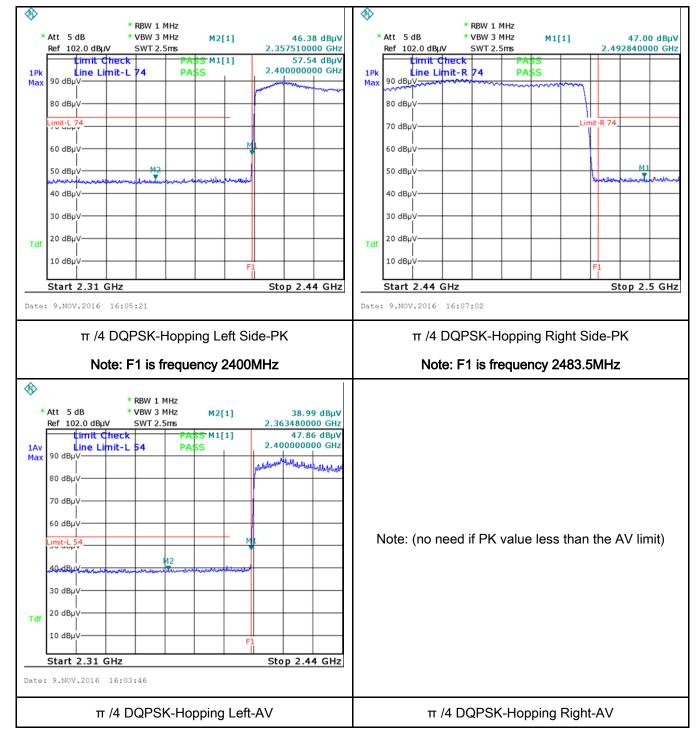
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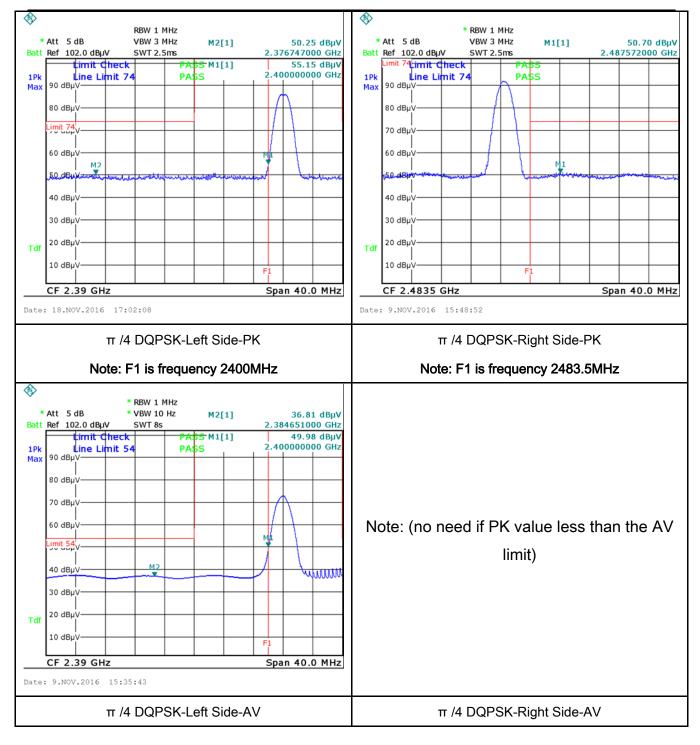
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### π /4 DQPSK Mode:





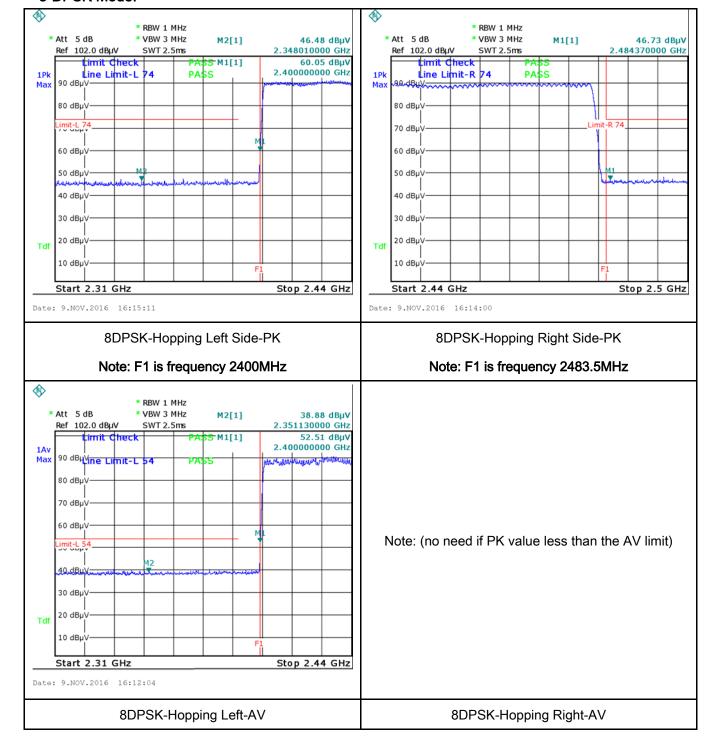
Test Report	16071279-FCC-R2_V1
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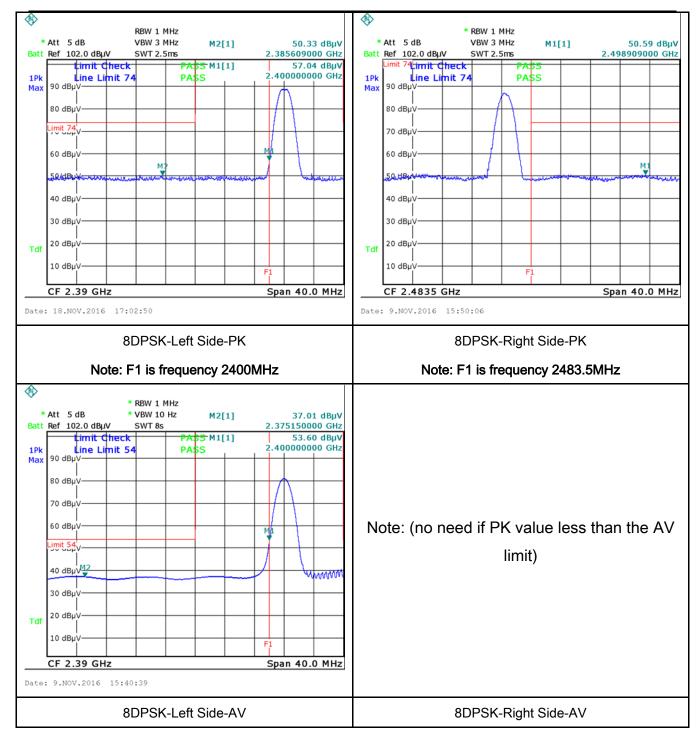
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### 8-DPSK Mode:





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# 6.8 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	November 08, 2016
Tested By :	Loren Luo

Spec	Item	Requirement			Applicable	
47CFR§15. 207, RSS210	a)	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 not exceed the limits in the following table, as measured using a 50 [mu]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.				
(A8.1)		Frequency ranges	Limit (	dBμV)		
(7.0.1)		(MHz)	QP	Average		
		0.15 ~ 0.5	66 – 56	56 – 46		
		0.5 ~ 5	56	46		
		5 ~ 30	60	50		
Test Setup	Vertical Ground Reference Plane  Horizontal Ground Reference Plane  Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.					
Procedure	<ol> <li>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.</li> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>All other supporting equipment were powered separately from another main supply.</li> </ol>					



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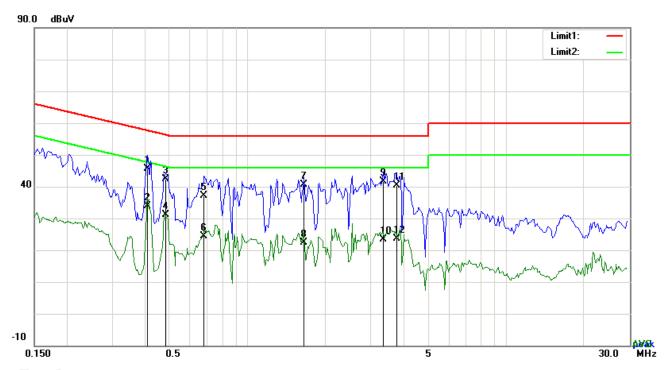
	5. The EUT was switched on and allowed to warm up to its normal operating condition.							
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)							
	over the required frequency range using an EMI test receiver.							
	7. High peaks, relative to the limit line, The 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	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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Test Mode: Bluetooth Mode	Test Mode:
---------------------------	------------



## Test Data

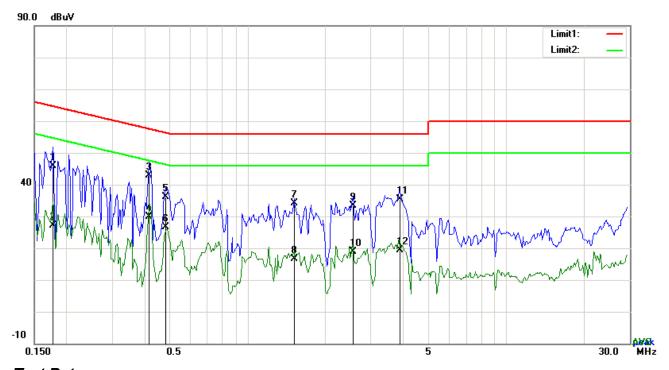
# Phase Line Plot at 120Vac, 60Hz

	· ,							
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.4113	33.30	QP	12.23	45.53	57.62	-12.09
2	L1	0.4113	21.64	AVG	12.23	33.87	47.62	-13.75
3	L1	0.4815	30.36	QP	11.97	42.33	56.31	-13.98
4	L1	0.4815	19.23	AVG	11.97	31.20	46.31	-15.11
5	L1	0.6804	25.46	QP	11.72	37.18	56.00	-18.82
6	L1	0.6804	12.68	AVG	11.72	24.40	46.00	-21.60
7	L1	1.6515	29.12	QP	11.40	40.52	56.00	-15.48
8	L1	1.6515	10.95	AVG	11.40	22.35	46.00	-23.65
9	L1	3.3549	30.17	QP	11.40	41.57	56.00	-14.43
10	L1	3.3549	12.03	AVG	11.40	23.43	46.00	-22.57
11	L1	3.7878	28.87	QP	11.40	40.27	56.00	-15.73
12	L1	3.7878	12.27	AVG	11.40	23.67	46.00	-22.33



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|--|



# Test Data

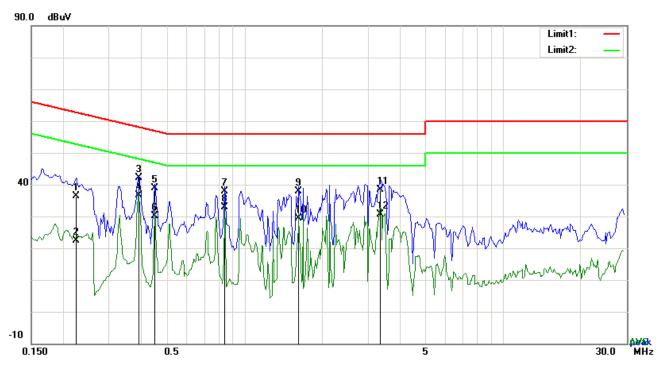
# Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1773	32.66	QP	13.10	45.76	64.61	-18.85
2	N	0.1773	13.93	AVG	13.10	27.03	54.61	-27.58
3	N	0.4152	30.73	QP	12.21	42.94	57.54	-14.60
4	N	0.4152	17.79	AVG	12.21	30.00	47.54	-17.54
5	N	0.4815	24.08	QP	11.97	36.05	56.31	-20.26
6	N	0.4815	14.74	AVG	11.97	26.71	46.31	-19.60
7	N	1.5189	22.65	QP	11.46	34.11	56.00	-21.89
8	N	1.5189	5.23	AVG	11.46	16.69	46.00	-29.31
9	Ν	2.5563	21.89	QP	11.59	33.48	56.00	-22.52
10	N	2.5563	7.35	AVG	11.59	18.94	46.00	-27.06
11	N	3.8970	23.50	QP	11.76	35.26	56.00	-20.74
12	N	3.8970	7.51	AVG	11.76	19.27	46.00	-26.73



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Test Mode:	Bluetooth Mode



## Test Data

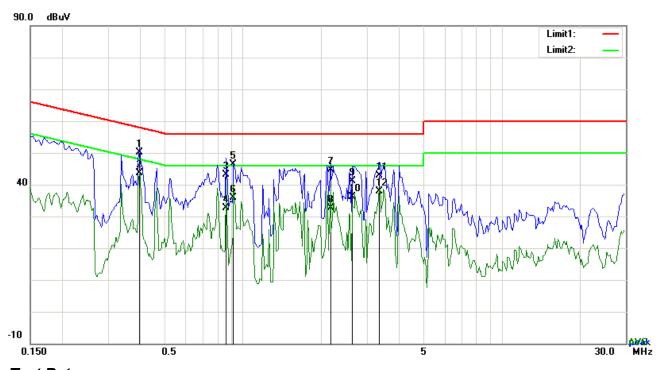
# Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2241	23.57	QP	12.92	36.49	62.67	-26.18
2	L1	0.2241	9.47	AVG	12.92	22.39	52.67	-30.28
3	L1	0.3918	29.76	QP	12.30	42.06	58.03	-15.97
4	L1	0.3918	24.24	AVG	12.30	36.54	48.03	-11.49
5	L1	0.4503	26.92	QP	12.08	39.00	56.87	-17.87
6	L1	0.4503	18.06	AVG	12.08	30.14	46.87	-16.73
7	L1	0.8403	26.35	QP	11.56	37.91	56.00	-18.09
8	L1	0.8403	21.31	AVG	11.56	32.87	46.00	-13.13
9	L1	1.6242	26.58	QP	11.40	37.98	56.00	-18.02
10	L1	1.6242	18.03	AVG	11.40	29.43	46.00	-16.57
11	L1	3.3627	27.05	QP	11.40	38.45	56.00	-17.55
12	L1	3.3627	19.15	AVG	11.40	30.55	46.00	-15.45



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Test Mode: Bluetooth Mode



## Test Data

# Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.3957	37.90	QP	12.29	50.19	57.94	-7.75
2	N	0.3957	31.44	AVG	12.29	43.73	47.94	-4.21
3	N	0.8559	31.66	QP	11.54	43.20	56.00	-12.80
4	N	0.8559	21.13	AVG	11.54	32.67	46.00	-13.33
5	N	0.9183	34.84	QP	11.48	46.32	56.00	-9.68
6	N	0.9183	24.48	AVG	11.48	35.96	46.00	-10.04
7	N	2.1702	33.18	QP	11.55	44.73	56.00	-11.27
8	N	2.1702	20.96	AVG	11.55	32.51	46.00	-13.49
9	N	2.6304	29.65	QP	11.60	41.25	56.00	-14.75
10	N	2.6304	24.43	AVG	11.60	36.03	46.00	-9.97
11	N	3.3588	31.15	QP	11.69	42.84	56.00	-13.16
12	N	3.3588	26.08	AVG	11.69	37.77	46.00	-8.23



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# 6.9 Radiated Spurious Emissions & Restricted Band

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	November 08, 2016
Tested By :	Loren Luo

## Requirement(s):

Spec	Item	Requirement Applicable								
47CFR§15. 205, §15.209, §15.247(d)	a)	Except higher limit as specified else emissions from the low-power radio-exceed the field strength levels specitive level of any unwanted emissions the fundamental emission. The tighteedges  Frequency range (MHz)  30 - 88  88 - 216  216 960  Above 960	V							
Test Setup		Ant. Tower  Support Units  Ground Plane  Test Receiver								
Procedure	<ol> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:         <ol> <li>Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> </ol> </li> </ol>									



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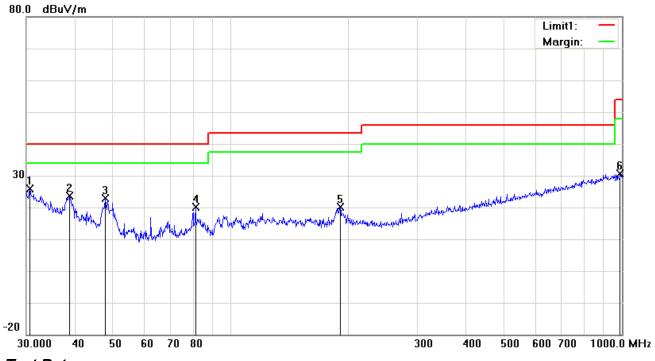
		b.	The EUT was then rotated to the direction that gave the maximum
			emission.
		C.	Finally, the antenna height was adjusted to the height that gave the
			maximum emission.
	3.	The res	solution bandwidth and video bandwidth of test receiver/spectrum analyzer is
		120 kH	z for Quasiy Peak detection at frequency below 1GHz.
	4.	The res	olution bandwidth of test receiver/spectrum analyzer is 1MHz and video
		bandwi	dth is 3MHz with Peak detection for Peak measurement at frequency above
		1GHz.	
		The res	solution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
		bandwi	dth is 10Hz with Peak detection for Average Measurement as below at
		frequer	ncy above 1GHz.
	5.	Steps	2 and 3 were repeated for the next frequency point, until all selected
		freque	ncy points were measured.
Remark			
			F
Result	<b>☑</b> Pa	ass	└─ Fail
	7		
Test Data	Yes		III N/A
Test Plot	Yes (S	See belo	w) N/A
	( -		<i>'</i>



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Test Mode: Bluetooth Mode

## Below 1GHz



#### Test Data

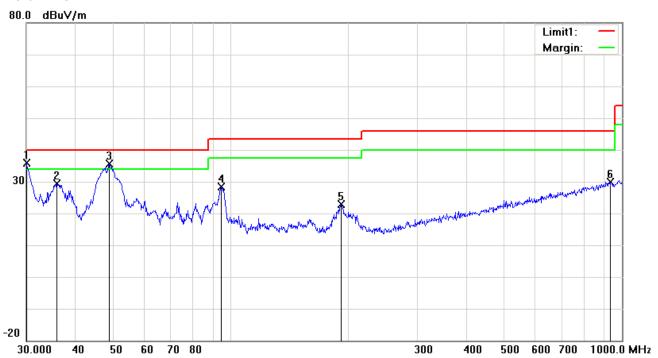
## Horizontal Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m )	(dBuV/m)	(dB)	(cm)	(°)
1	Ι	30.6379	26.54	peak	-0.73	25.81	40.00	-14.19	100	335
2	Н	38.7518	30.41	peak	-6.68	23.73	40.00	-16.27	100	129
3	Н	47.6586	35.05	peak	-12.13	22.92	40.00	-17.08	100	116
4	Н	81.2117	33.81	peak	-13.71	20.10	40.00	-19.90	100	102
5	Н	190.4050	29.28	peak	-9.21	20.07	43.50	-23.43	100	51
6	Н	989.5355	24.89	peak	5.65	30.54	54.00	-23.46	100	68



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## Below 1GHz



#### Test Data

# Vertical Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m )	(dBuV/m)	(dB)	(cm)	(°)
1	V	30.0000	36.07	QP	-0.26	35.81	40.00	-4.19	100	96
2	V	35.8747	34.08	peak	-4.58	29.50	40.00	-10.50	100	147
3	٧	48.8429	48.38	QP	-12.66	35.72	40.00	-4.28	100	328
4	٧	94.4284	40.66	peak	-12.27	28.39	43.50	-15.11	100	61
5	V	191.0738	32.10	peak	-9.17	22.93	43.50	-20.57	100	134
6	٧	935.5463	24.80	peak	5.01	29.81	46.00	-16.19	100	28



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## Above 1GHz

# camera1+memory1

Test Mode: Transmitting Mode

## Low Channel: GFSK Mode (Worst Case) (2402 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	38.43	AV	V	33.67	6.86	32.66	46.3	54	-7.7
4804	38.21	AV	Н	33.67	6.86	32.66	46.08	54	-7.92
4804	47.96	PK	V	33.67	6.86	32.66	55.83	74	-18.17
4804	47.42	PK	Н	33.67	6.86	32.66	55.29	74	-18.71
17784	24.31	AV	V	45.03	11.21	32.38	48.17	54	-5.83
17784	24.13	AV	Н	45.03	11.21	32.38	47.99	54	-6.01
17784	40.82	PK	V	45.03	11.21	32.38	64.68	74	-9.32
17784	40.43	PK	Н	45.03	11.21	32.38	64.29	74	-9.71

#### Middle Channel: GFSK Mode (Worst Case) (2441 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4882	38.77	AV	V	33.71	6.95	32.74	46.69	54	-7.31
4882	38.62	AV	Н	33.71	6.95	32.74	46.54	54	-7.46
4882	48.05	PK	V	33.71	6.95	32.74	55.97	74	-18.03
4882	47.59	PK	Н	33.71	6.95	32.74	55.51	74	-18.49
17802	24.05	AV	V	45.15	11.18	32.41	47.97	54	-6.03
17802	23.89	AV	Н	45.15	11.18	32.41	47.81	54	-6.19
17802	41.12	PK	V	45.15	11.18	32.41	65.04	74	-8.96
17802	40.64	PK	Н	45.15	11.18	32.41	64.56	74	-9.44



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#### High Channel: GFSK Mode (Worst Case) (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	38.47	AV	V	33.9	6.76	32.74	46.39	54	-7.61
4960	38.32	AV	Н	33.9	6.76	32.74	46.24	54	-7.76
4960	48.11	PK	V	33.9	6.76	32.74	56.03	74	-17.97
4960	47.98	PK	Н	33.9	6.76	32.74	55.9	74	-18.1
17791	24.67	AV	V	45.22	11.35	32.38	48.86	54	-5.14
17791	24.53	AV	Н	45.22	11.35	32.38	48.72	54	-5.28
17791	41.28	PK	V	45.22	11.35	32.38	65.47	74	-8.53
17791	40.96	PK	Н	45.22	11.35	32.38	65.15	74	-8.85

#### Note:

- 1, The testing has been conformed to 10\*2480MHz=24,800MHz
- 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.



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# Camera2+memory2

Test Mode: Transmitting Mode

## Low Channel: GFSK Mode (Worst Case) (2402 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	38.42	AV	V	33.67	6.86	32.66	46.29	54	-7.71
4804	38.39	AV	Н	33.67	6.86	32.66	46.26	54	-7.74
4804	47.86	PK	V	33.67	6.86	32.66	55.73	74	-18.27
4804	47.23	PK	Н	33.67	6.86	32.66	55.1	74	-18.9
17815	24.51	AV	V	45.03	11.21	32.38	48.37	54	-5.63
17815	24.19	AV	Н	45.03	11.21	32.38	48.05	54	-5.95
17815	41.23	PK	V	45.03	11.21	32.38	65.09	74	-8.91
17815	40.81	PK	Н	45.03	11.21	32.38	64.67	74	-9.33

## Middle Channel: GFSK Mode (Worst Case) (2441 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4882	38.97	AV	V	33.71	6.95	32.74	46.89	54	-7.11
4882	38.75	AV	Н	33.71	6.95	32.74	46.67	54	-7.33
4882	48.16	PK	V	33.71	6.95	32.74	56.08	74	-17.92
4882	47.83	PK	Н	33.71	6.95	32.74	55.75	74	-18.25
17796	24.11	AV	V	45.15	11.18	32.41	48.03	54	-5.97
17796	23.86	AV	Н	45.15	11.18	32.41	47.78	54	-6.22
17796	41.37	PK	V	45.15	11.18	32.41	65.29	74	-8.71
17796	40.84	PK	Н	45.15	11.18	32.41	64.76	74	-9.24



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### High Channel: GFSK Mode (Worst Case) (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	38.27	AV	V	33.9	6.76	32.74	46.19	54	-7.81
4960	38.05	AV	Н	33.9	6.76	32.74	45.97	54	-8.03
4960	47.98	PK	V	33.9	6.76	32.74	55.9	74	-18.1
4960	47.62	PK	Н	33.9	6.76	32.74	55.54	74	-18.46
17782	24.58	AV	V	45.22	11.35	32.38	48.77	54	-5.23
17782	24.32	AV	Н	45.22	11.35	32.38	48.51	54	-5.49
17782	41.43	PK	V	45.22	11.35	32.38	65.62	74	-8.38
17782	41.24	PK	Н	45.22	11.35	32.38	65.43	74	-8.57

#### Note:

- 1, The testing has been conformed to 10\*2480MHz=24,800MHz
- 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.



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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	09/16/2016	09/15/2017	>
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	•
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	~
LISN	ISN T800	34373	09/24/2016	09/23/2017	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<b>&gt;</b>
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	✓
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	~
Power Splitter	1#	1#	08/31/2016	08/30/2017	~
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	~
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	~
Positioning Controller	UC3000	MF780208282	11/19/2015	11/18/2016	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	✓
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	V
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	V
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	V



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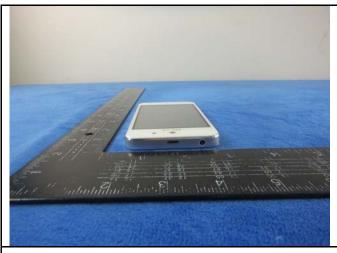
# Annex B. EUT And Test Setup Photographs

# Annex B.i. Photograph: EUT External Photo





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EUT - Top View

EUT - Bottom View



EUT - Left View



**EUT - Right View** 

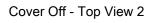


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## Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1

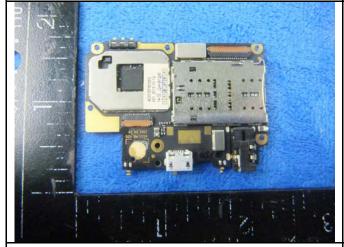






Battery - Front View

Battery - Rear View



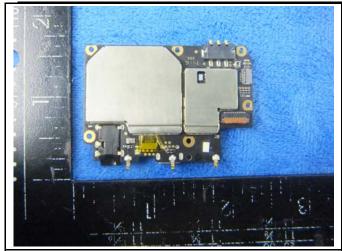
Mainboard with Shielding - Front View



Mainboard without Shielding - Front View

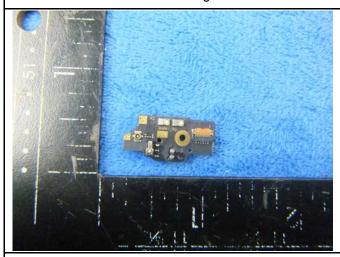


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Mainboard with Shielding - Rear View

Mainboard without Shielding - Rear View





Smallboard - Front View

Smallboard - Rear View



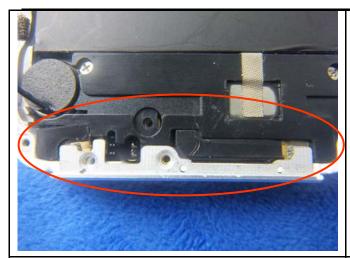


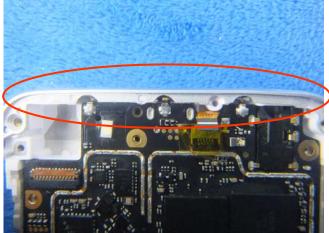
LCD - Front View

LCD - Rear View



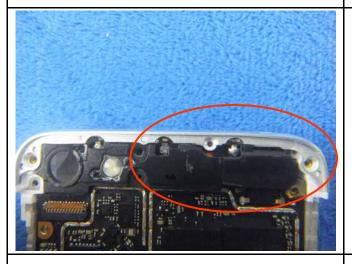
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GSM/PCS/UMTS-FDD Antenna View

WIFI/BT/BLE - Antenna View



GPS - Antenna View



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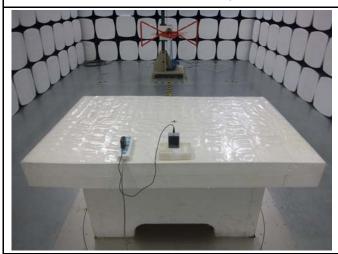
# Annex B.iii. Photograph: Test Setup Photo



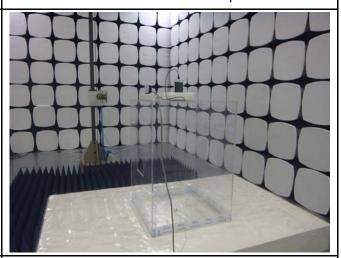
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

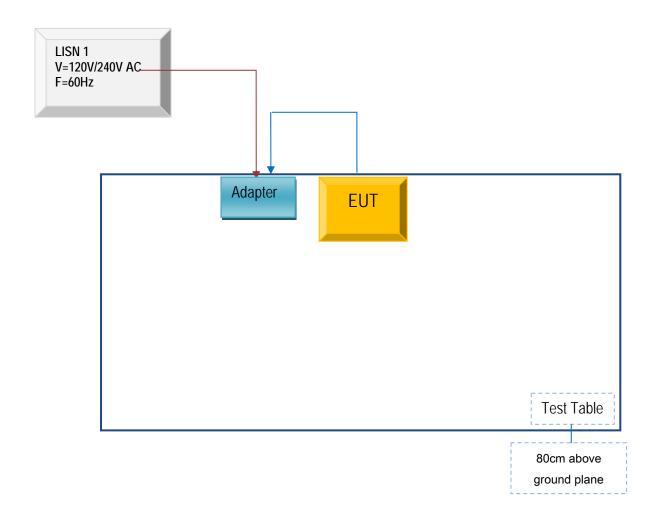


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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

## Annex C.ii. TEST SET UP BLOCK

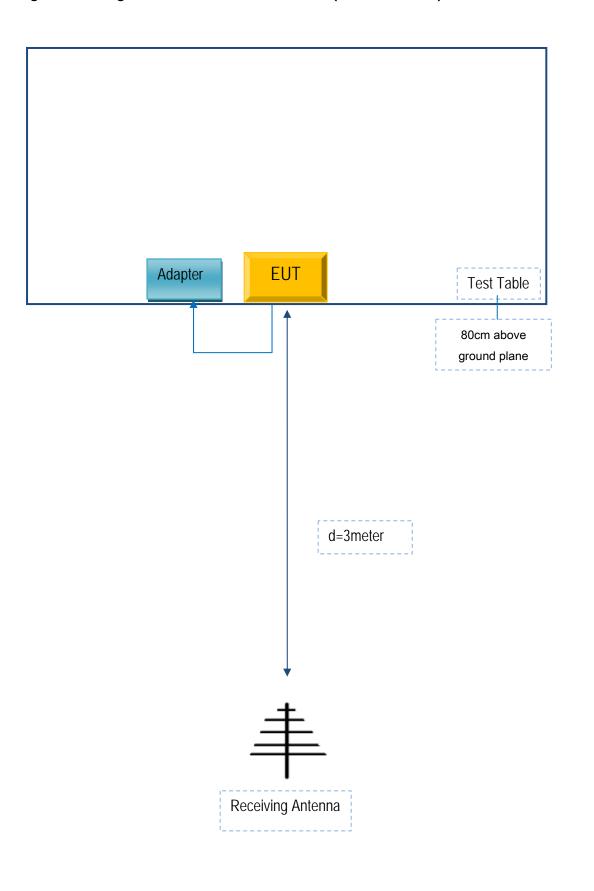
Block Configuration Diagram for AC Line Conducted Emissions





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# Block Configuration Diagram for Radiated 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
BLU Products, Inc.	Adapter	US-ZC-0600	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