# RF TEST REPORT



Report No.: 17070840-FCC-R2

Supersede Report No.: N/A

Applicant	Verykool USA Inc			
Product Name	Mobile phone			
Model No.	SL5029			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2016, ANSI C63.10: 2	013	
Test Date	September	27 to October 15, 2017		
Issue Date	October 16	, 2017		
Test Result	Pass Fail			
Equipment compl	ied with the	specification		
Equipment did no	t comply wit	h the specification		
LOVAL LUO David Huang				
Loren Luo		David Huang		
Test Engineer		Checked By		
This test report may be reproduced in full only				
Test result presented in this test report is applicable to the tested sample only				
Issued by:				
SIEMIC (SHENZHEN-CHINA) LABORATORIES				
Zone A, Floor 1, Building 2 Wan Ye Long Technology Park				

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



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# Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

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

#### Accreditations for Conformity Assessment



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# 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070840-FCC-R2	NONE	Original	October 16, 2017

# 2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, California 92122 United States
Manufacturer	Fortune Ship International Industrial Ltd
Manufacturer Add	6/F, Kanghesheng Building, No.1 Chuangsheng Road, Nanshan District, Shenzhen,
	Guangdong, China

# 3. Test site information

#### Test Lab A:

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China
	518108
FCC Test Site No.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

#### Test Lab B:

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
	2-1 Longcang Avenue Yuhua Economic and
Lab Address	Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMC(ver.lcp-03A1)

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



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# 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
Main Model:	SL5029
Serial Model:	N/A
Date EUT received:	September 26, 2017
Test Date(s):	September 27 to October 15, 2017
Equipment Category :	DSS
	GSM850: -1.5dBi
	PCS1900: 0.5dBi
	UMTS-FDD Band V: -1.5dBi
	UMTS-FDD Band II: 0.5dBi
	LTE Band 2: 0.8dBi
Antenna Gain:	LTE Band 4: 0.7dBi
	LTE Band 5: 0.2dBi
	LTE Band 7: 1.0dBi
	Bluetooth/BLE: 1.02dBi
	WIFI: 1.1dBi
	GPS: 1.02dBi
Antenna Type:	PIFA antenna
	GSM / GPRS: GMSK
	EGPRS: GMSK,8PSK
	UMTS-FDD: QPSK
Type of Modulation:	LTE Band: QPSK, 16QAM
Type of modulation.	802.11b/g/n: DSSS, OFDM
	Bluetooth: GFSK, π /4DQPSK, 8DPSK
	BLE: GFSK
	GPS:BPSK
PE Operating Fraguency (iac):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz
RF Operating Frequency (ies):	PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz



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A Bureau veritas Group Company	
	UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz
	UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;
	RX: 1932.4 ~ 1987.6 MHz
	LTE Band 2 TX: 1852.5 ~ 1907.5 MHz; RX : 1932.5 ~ 1987.5 MHz
	LTE Band 4 TX: 1712.5 ~ 1752.5 MHz; RX : 2112.5 ~ 2152.5 MHz
	LTE Band 5 TX: 826.5 ~ 846.5 MHz; RX : 871.5 ~ 891.5 MHz
	LTE Band 7 TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz
	WIFI: 802.11b/g/n(20M): 2412-2462 MHz
	WIFI: 802.11n(40M): 2422-2452 MHz
	Bluetooth& BLE: 2402-2480 MHz
	GPS: 1575.42 MHz
Max. Output Power:	-2.842dBm
	GSM 850: 124CH
	PCS1900: 299CH
	UMTS-FDD Band V: 102CH
	UMTS-FDD Band II: 277CH
Number of Channels:	WIFI :802.11b/g/n(20M): 11CH
	WIFI :802.11n(40M): 7CH
	Bluetooth: 79CH
	BLE: 40CH
	GPS:1CH
Port:	USB Port, Earphone Port
	Adapter:
	Model: UAX-C05Y10-00A00
	Input: AC100-240V~50/60Hz, 0.2A
	Output: DC 5.0V,1.0A
Input Power:	Battery:
	Model: 366073ART
	Spec: 3.7V, 2000mAh, 7.4Wh
	Limited charger voltage: 4.2V
Trade Name :	verykool
GPRS/ EGPRS Multi-slot class	8/10/11/12
500 15	
FCC ID:	WA6SL5029



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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& Restricted Band and Radiated Emissions& Restricted Band	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 3 antennas:

A permanently attached PIFA antenna for GSM/PCS/ UMTS-FDD Band V/II, the gain is -1.5dBi for GSM850/ UMTS-FDD Band V, the gain is 0.5dBi for PCS1900/UMTS-FDD Band II.

A permanently attached PIFA antenna for LTE Band II/IV/V/VII, the gain is 0.8dBi for LTE Band II, the gain is 0.7dBi for LTE Band IV, the gain is 0.2dBi for LTE Band V, the gain is 1.0dBi for LTE Band VII.

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI/GPS, the gain is 1.02dBi for Bluetooth/BLE/ GPS, the gain is 1.1dBi for WIFI.

#### The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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# 6.2 Channel Separation

Temperature	23 °C
Relative Humidity	54%
Atmospheric Pressure	1020mbar
Test date :	September 28, 2017
Tested By :	Loren Luo

Spec	Item	Requirement Applicable					
		Channel Separation < 20dB BW and 20dB BW <					
S 45 047(-)(4)		25KHz; Channel Separation Limit=25KHz					
§ 15.247(a)(1)	a)	Chanel Separation < 20dB BW and 20dB BW >					
		25kHz ; Channel Separation Limit=2/3 20dB BW					
Test Setup	Spectrum Analyzer EUT						
		est follows FCC Public Notice DA 00-705 Measurement on following spectrum analyzer settings:	Guidelines.				
	<u> </u>	- The EUT must have its hopping function enabled					
	- Span = wide enough to capture the peaks of two adjacent						
	channels						
	- Resolution (or IF) Bandwidth (RBW) $\geq$ 1% of the span						
Test Dressdure	- Video (or Average) Bandwidth (VBW) ≥ RBW						
Test Procedure	- Sweep = auto						
	- Detector function = peak						
	- Trace = max hold						
	- Allow the trace to stabilize. Use the marker-delta function to						
		determine the separation between the peaks of the adj	acent				
		channels. The limit is specified in one of the subparagra	aphs of this				
		Section. Submit this plot.					



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Remark					
Result		Pass	Fail		
Test Data	✓ Yes	i	□ <sub>N/A</sub>		
Test Plot	st Plot Yes (See below)		□ <sub>N/A</sub>		

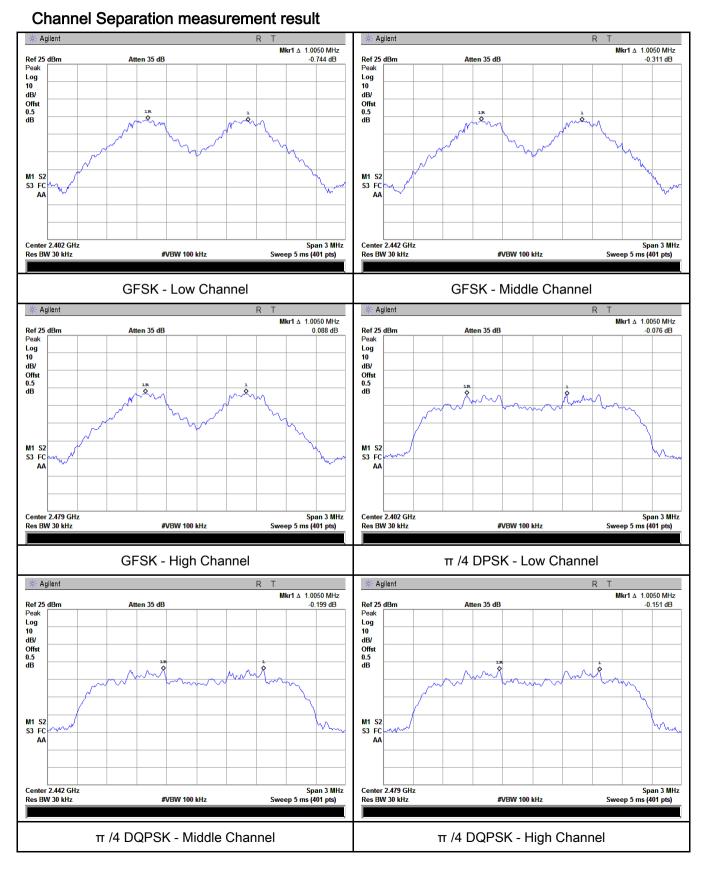
#### Channel Separation measurement result

Type/ Modulation	СН	CH Frequency (MHz)	CH Separation (MHz)	Limit (MHz)	Result
	Low Channel	2402	1.005	0.689	Pass
	Adjacency Channel	2403	1.005	0.009	F 855
CH Separation	Mid Channel	2440	1.005	0.69	Pass
GFSK	Adjacency Channel	2441	1.005	0.09	Pass
	High Channel	2480	1.005	0.601	Deee
	Adjacency Channel	2479	1.005	0.691	Pass
	Low Channel	2402	4.005	0.050	Dees
	Adjacency Channel	2403	1.005	0.858	Pass
CH Separation	Mid Channel	2440	4.005	0.050	Dees
π /4 DQPSK	Adjacency Channel	Adjacency Channel 2441 1.005		0.858	Pass
	High Channel	2480	4.005	0.859	Dese
	Adjacency Channel	2479	1.005		Pass
	Low Channel	2402	4.005	0.859	Dese
	Adjacency Channel	2403	1.005		Pass
CH Separation	Mid Channel	2440	4.005		Dese
8DPSK	Adjacency Channel	2441	1.005	0.868	Pass
	High Channel	2480	4.005		Dese
	Adjacency Channel	2479	1.005	0.862	Pass



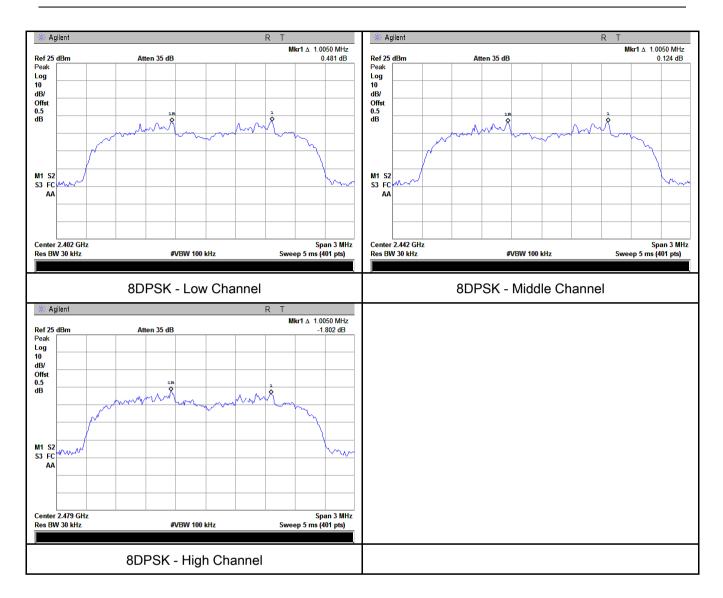
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#### **Test Plots**





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### 6.3 20dB Bandwidth

Temperature	23 °C
Relative Humidity	54%
Atmospheric Pressure	1020mbar
Test date :	September 28, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable
§15.247(a) (1)	a)	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.	۷
Test Setup		Spectrum Analyzer EUT	
Test Procedure		st follows FCC Public Notice DA 00-705 Measurement Gu <u>ie following spectrum analyzer settings:</u> Span = approximately 2 to 3 times the 20 dB bandwidth, a hopping channel RBW $\geq$ 1% of the 20 dB bandwidth VBW $\geq$ RBW Sweep = auto Detector function = peak Trace = max hold. The EUT should be transmitting at its maximum data rate trace to stabilize. Use the marker-to-peak function to set to to the peak of the emission. Use the marker-delta function measure 20 dB down one side of the emission. Reset the delta function, and move the marker to the other side of the	e. Allow the the marker n to e marker-

1					
SI	EI	MIC		Test Report	17070840-FCC-R2
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		ba op ea	ndwidth of eration (e. ch variatio	the emission g., data rate, r n. The limit is	delta reading at this point is the 20 dB If this value varies with different modes of modulation format, etc.), repeat this test for specified in one of the subparagraphs of
		thi	s Section.	Submit this pl	ot(s).
Remark					
Result Pass			Fail		
Test Data	✓ Y	es		N/A	
Test Plot	₩ Y	es (See be	low)	N/A	

#### Measurement result

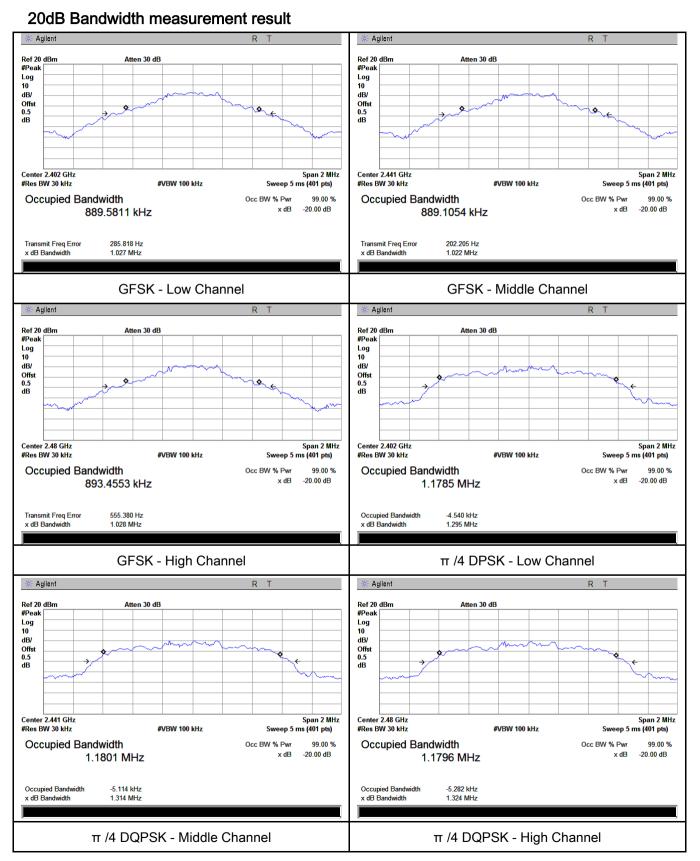
Modulation	СН	CH Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
	Low	2402	1.027	0.8896
GFSK	Mid	2441	1.022	0.8891
	High	2480	1.028	0.8935
	Low	2402	1.295	1.1785
π /4 DQPSK	Mid	2441	1.314	1.1801
	High	2480	1.324	1.1796
	Low	2402	1.298	1.1870
8-DPSK	Mid	2441	1.310	1.1963
	High	2480	1.305	1.1882



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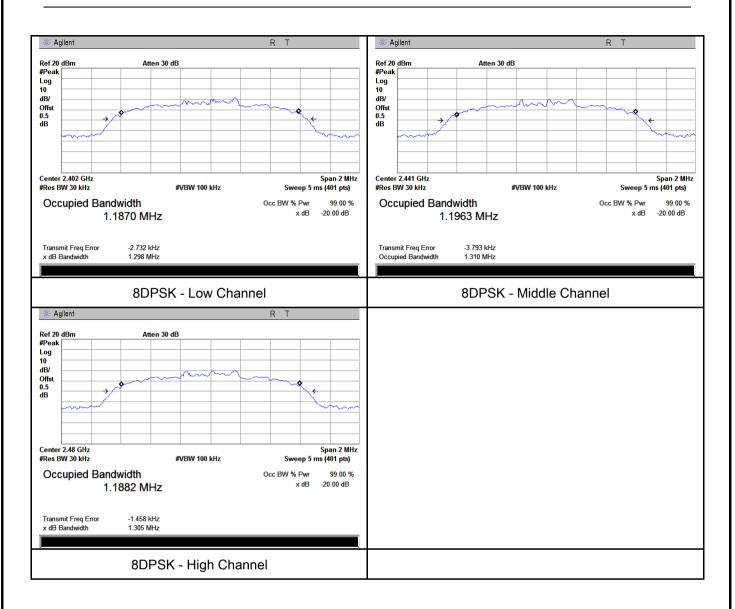
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#### **Test Plots**





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## 6.4 Peak Output Power

Temperature	24 °C
Relative Humidity	54%
Atmospheric Pressure	1020mbar
Test date :	September 29, 2017
Tested By :	Loren Luo

Spec	Item	Requirement Applicabl	
	a)	FHSS in 2400-2483.5MHz with $\geq$ 75 channels: $\leq$ 1 Watt	Y
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt	
§15.247(b)	c)	For all other FHSS in the 2400-2483.5MHz band: $\leq$ 0.125 Watt.	X
(3)	d)	FHSS in 902-928MHz with $\geq 50$ channels: $\leq 1$ Watt	
	e)	e) FHSS in 902-928MHz with $\geq$ 25 & <50 channels: $\leq$ 0.25 Watt	
	f)	DTS in 90 <u>2-928MHz, 2400</u> -2483.5MHz: ≤ 1 Watt	
Test Setup	Spectrum Analyzer EUT		
Test Procedure	<ul> <li>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</li> <li>Use the following spectrum analyzer settings: <ul> <li>Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel</li> <li>RBW &gt; the 20 dB bandwidth of the emission being measured</li> <li>VBW ≥ RBW</li> <li>Sweep = auto</li> <li>Detector function = peak</li> <li>Trace = max hold</li> <li>Allow the trace to stabilize.</li> </ul> </li> </ul>		

		MIC	Test Report	17070840-FCC-R2
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		emission. above reg specified i	The indicated le arding external a n one of the sub ak responding po	nction to set the marker to the peak of the vel is the peak output power (see the note attenuation and cable loss). The limit is paragraphs of this Section. Submit this ower meter may be used instead of a
Remark				
Result		Pass	Fail	
Test Data	▼ Y	′es	□ <sub>N/A</sub>	
Test Plot	۲	es (See below)	□ <sub>N/A</sub>	

#### Peak Output Power measurement result

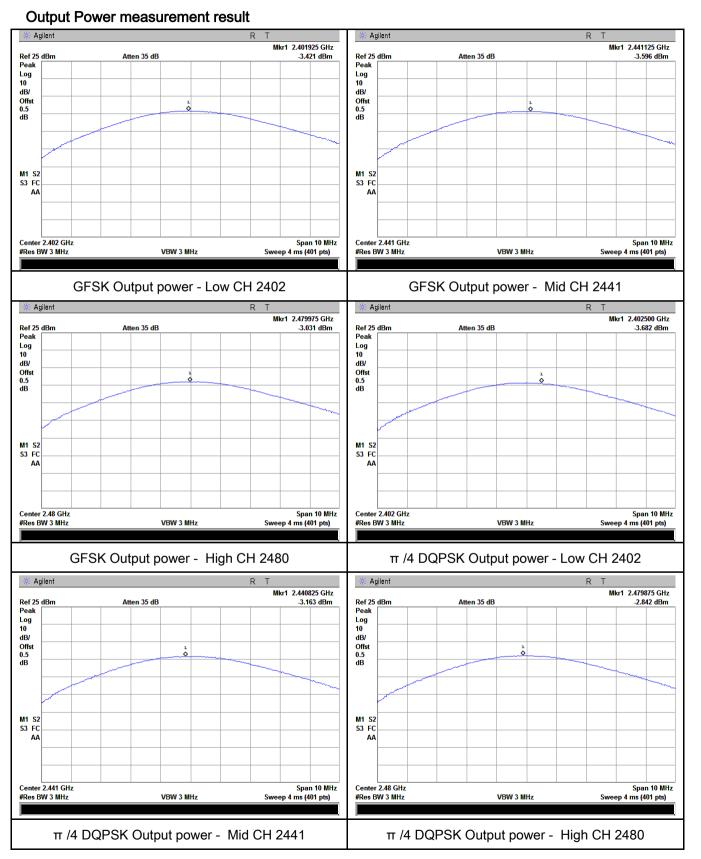
Туре	Modulation	СН	Frequenc y (MHz)	Conducted Power (dBm)	Limit (mW)	Result
		Low	2402	-3.421	125	Pass
	GFSK	Mid	2441	-3.596	125	Pass
		High	2480	-3.031	125	Pass
Output		Low	2402	-3.682	125	Pass
Output	π /4 DQPSK 8-DPSK	Mid	2441	-3.163	125	Pass
power		High	2480	-2.842	125	Pass
		Low	2402	-3.026	125	Pass
		Mid	2441	-3.061	125	Pass
		High	2480	-3.905	125	Pass



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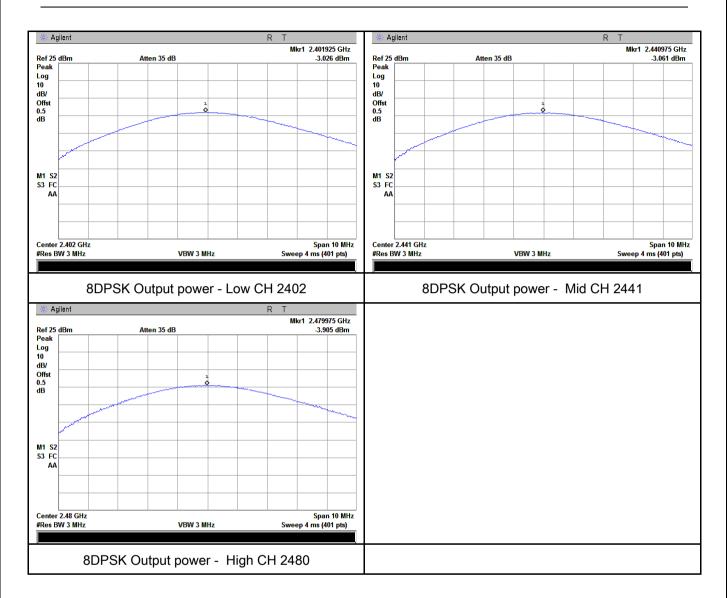
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#### **Test Plots**





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# 6.5 Number of Hopping Channel

Temperature	24 °C
Relative Humidity	54%
Atmospheric Pressure	1020mbar
Test date :	September 29, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable		
§15.247(a) (1)(iii)	a)	FHSS in 2400-2483.5MHz $\geq$ 15 channels	2		
Test Setup		Spectrum Analyzer EUT			
	The tes	st follows FCC Public Notice DA 00-705 Measurement Gu	idelines.		
	Use the	e following spectrum analyzer settings:			
	The EL	JT must have its hopping function enabled.			
	- Span = the frequency band of operation				
	- RBW ≥ 1% of the span				
Test	- VBW ≥ RBW				
Procedure	- Sweep = auto				
Procedure	- 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	N/A			
Test Plot	Yes (See	below)			



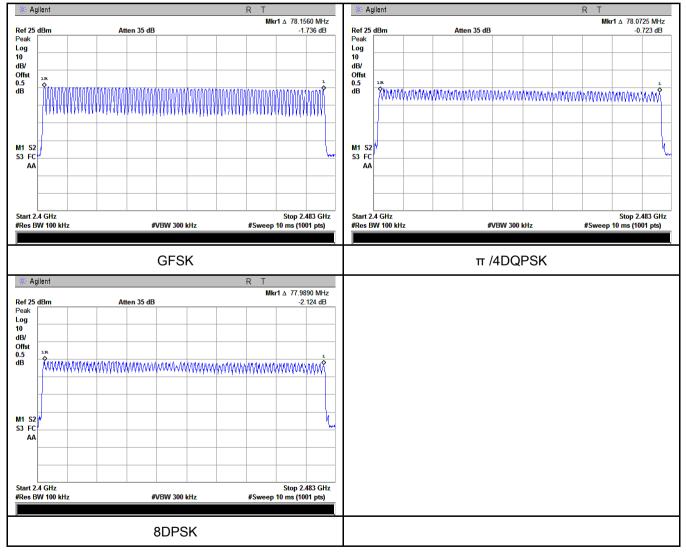
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#### Number of Hopping Channel measurement result

Туре	Modulation	Frequency Range	Number of Hopping Channel	Limit
Number of	GFSK	2400-2483.5	79	15
Number of Hopping Channel	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	24 °C
Relative Humidity	54%
Atmospheric Pressure	1020mbar
Test date :	September 29, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	Dwell Time < 0.4s	۲
Test Setup		Spectrum Analyzer EUT	
		st follows FCC Public Notice DA 00-705 Measurement G	uidelines.
	Use the	e following spectrum analyzer	
	-	Span = zero span, centered on a hopping channel	
	-	RBW = 1 MHz	
Test	-	VBW ≥ RBW	
Procedure	- 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	e
Remark			
Result	Pas	s Fail	
Test Data	(es	□ <sub>N/A</sub>	
Test Plot	′es (See	below)	



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#### Dwell Time measurement result

Туре	Modulation	СН	Pulse Width	Dwell Time	Limit	Result
			(ms)	(ms)	(ms)	
		Low	2.940	313.600	400	Pass
	GFSK	Mid	2.910	310.400	400	Pass
		High	2.900	309.333	400	Pass
		Low	2.900	309.333	400	Pass
Dwell Time	π /4 DQPSK	Mid	2.930	312.533	400	Pass
		High	2.930	312.533	400	Pass
		Low	2.910	310.400	400	Pass
	8-DPSK	Mid	2.910	310.400	400	Pass
		High	2.900	309.333	400	Pass
Note: Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6						



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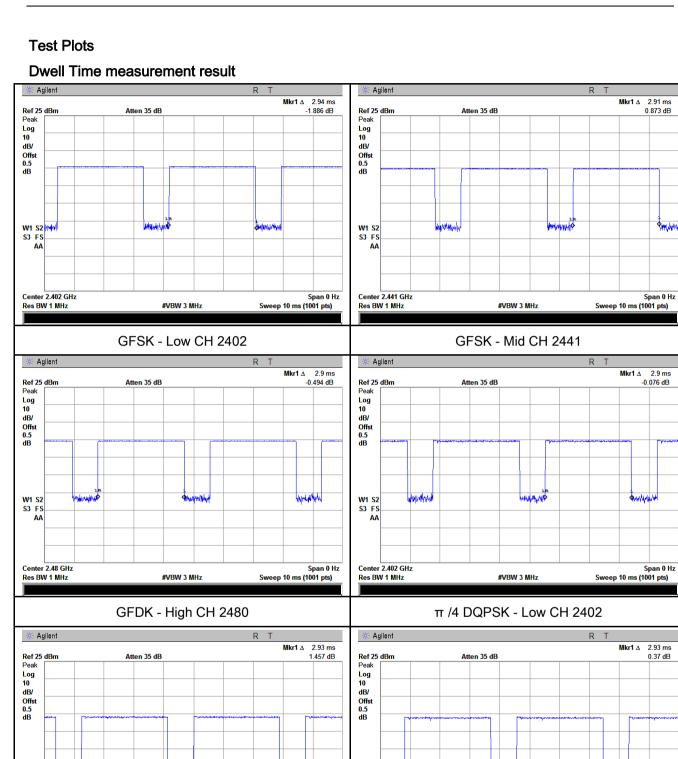
0.873 dB

NW W

0.37 dB

**Alifi** 

Span 0 Hz Sweep 10 ms (1001 pts)



W1 S2

Center 2.48 GHz

Res BW 1 MHz

AA

nla linnite.

Span 0 Hz Sweep 10 ms (1001 pts)

manyuharik

#VBW 3 MHz

 $\pi$  /4 DQPSK - Mid CH 2441

W1 S2 S3 FS

AA

Center 2.441 GHz

Res BW 1 MHz

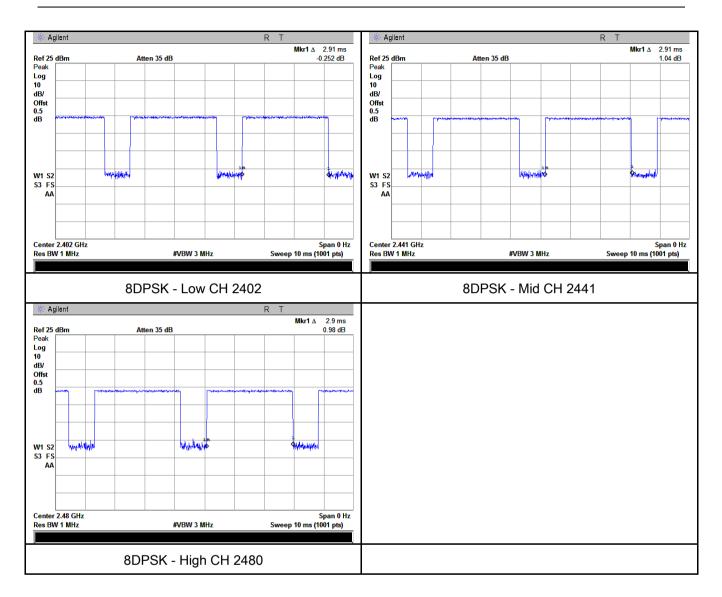
V'MM

#VBW 3 MHz

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## 6.7 Band Edge & Restricted Band

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1023mbar
Test date :	September 27, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	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.		V
Test Setup	Ant. Tower UT& Support Units 0.8/1.5m Ground Plane Test Receiver		
Test Procedure	<ul> <li>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</li> <li>Radiated Method Only <ul> <li>1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.</li> <li>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,</li> </ul> </li> </ul>		



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	<ul> <li>and make sure the instrument is operated in its linear range.</li> <li>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:</li> <li>a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</li> </ul>
	<ul> <li>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.</li> <li>c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the</li> </ul>
	<ul> <li>video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz.</li> <li>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.</li> <li>5. Repeat above procedures until all measured frequencies were complete.</li> </ul>
Remark	
Result	Pass Fail
Test Data	Yes (See below)

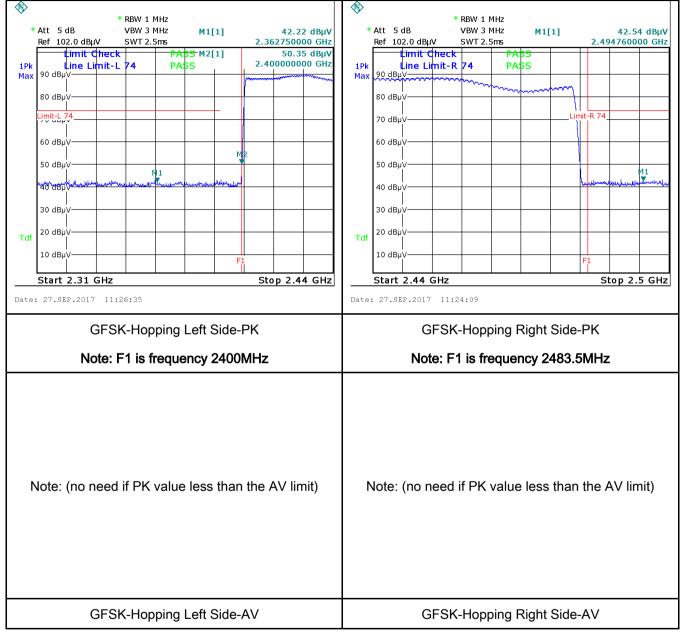


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#### **Test Plots**

#### **GFSK Mode:**





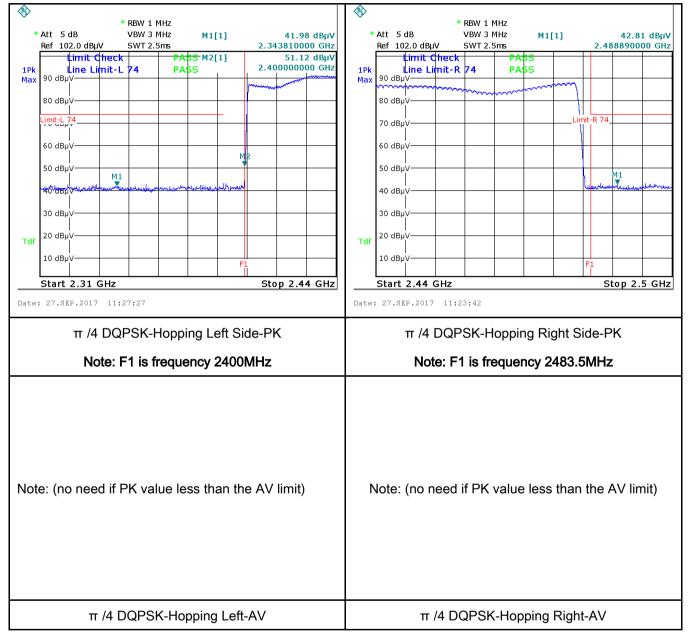
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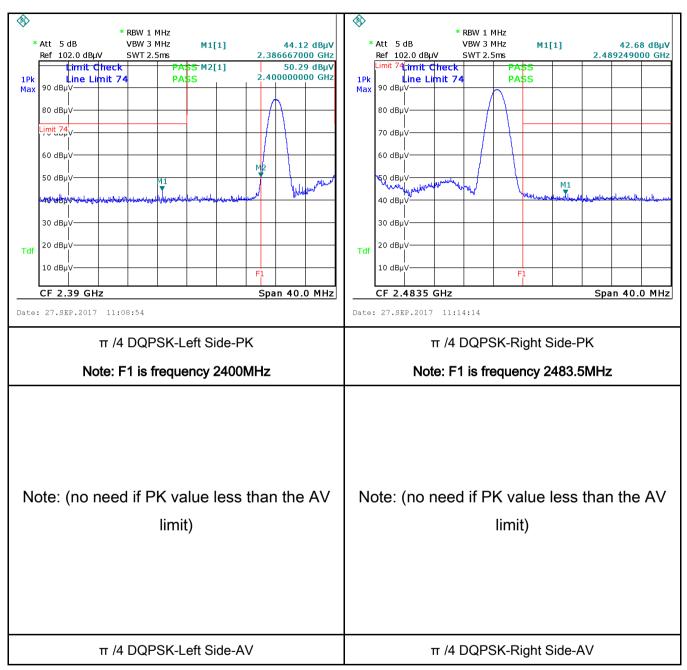
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#### $\pi$ /4 DQPSK Mode:





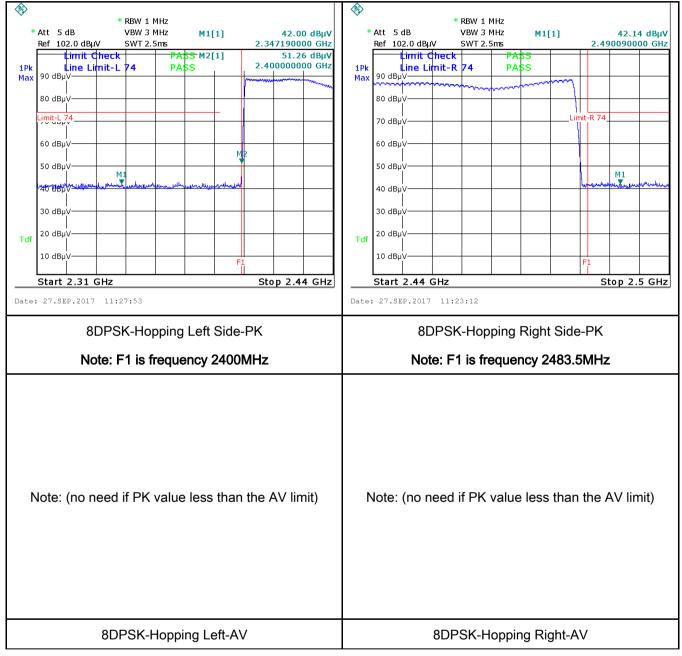
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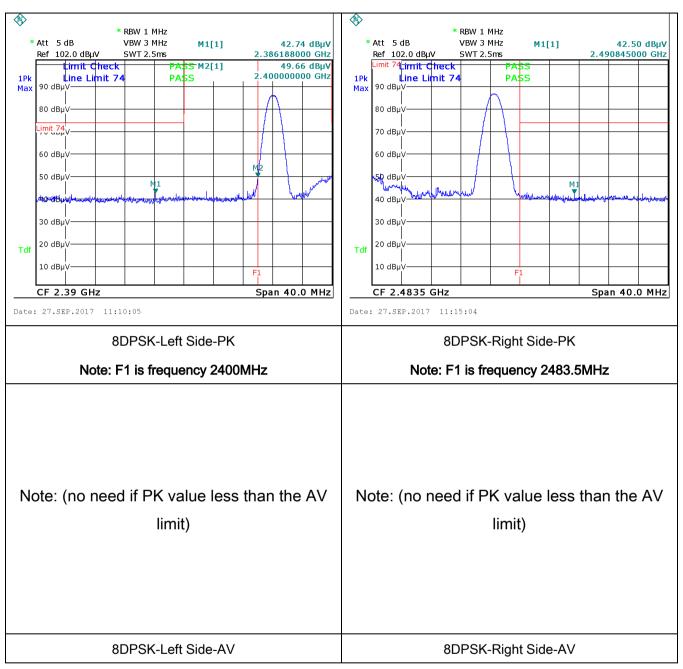
#### 8-DPSK Mode:





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# 6.8 AC Power Line Conducted Emissions

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1023mbar
Test date :	September 27, 2017
Tested By :	Loren Luo

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 imp lower limit applies at th Frequency ranges (MHz) $0.15 \sim 0.5$ $0.5 \sim 5$ $5 \sim 30$	c utility (AC) power line ed back onto the AC po es, within the band 150 the following table, as bedance stabilization n e boundary between th	, the radio frequency ower line on any 0 kHz to 30 MHz, shall measured using a 50 etwork (LISN). The	٢
Test Setup					
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</li> </ol>				

1								
SIE	MIC	Test Report	17070840-FCC-R2					
A Bureau Verita	as Group Company	Page	37 of 68					
	coaxial cable.							
		All other supporting equipment were powered separately from another main supply.						
			d to warm up to its normal operating condition.					
			ne (for AC mains) or Earth line (for DC power)					
			ng an EMI test receiver.					
			ne EMI test receiver was then tuned to the					
		and the necessar	ry measurements made with a receiver bandwidth					
	setting of 10 kHz.	setting of 10 kHz.						
	8. Step 7 was then repea	ated for the LIVE	line (for AC mains) or DC line (for DC power).					
Remark								
Result	Pass Fa	ail						
Test Data	Yes	N/A						
Test Plot	Yes (See below)	N/A						



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# Test Mode: Bluetooth Mode

# Test Data

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.5322	21.06	QP	11.87	32.93	56.00	-23.07
2	L1	0.5322	6.90	AVG	11.87	18.77	46.00	-27.23
3	L1	1.1406	21.66	QP	11.40	33.06	56.00	-22.94
4	L1	1.1406	9.56	AVG	11.40	20.96	46.00	-25.04
5	L1	1.5267	19.07	QP	11.40	30.47	56.00	-25.53
6	L1	1.5267	4.47	AVG	11.40	15.87	46.00	-30.13
7	L1	2.0454	23.25	QP	11.40	34.65	56.00	-21.35
8	L1	2.0454	10.47	AVG	11.40	21.87	46.00	-24.13
9	L1	2.1351	23.15	QP	11.40	34.55	56.00	-21.45
10	L1	2.1351	11.27	AVG	11.40	22.67	46.00	-23.33
11	L1	3.5070	23.72	QP	11.40	35.12	56.00	-20.88
12	L1	3.5070	5.74	AVG	11.40	17.14	46.00	-28.86

### Phase Line Plot at 120Vac, 60Hz



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# Test Mode: Bluetooth Mode

### Test Data

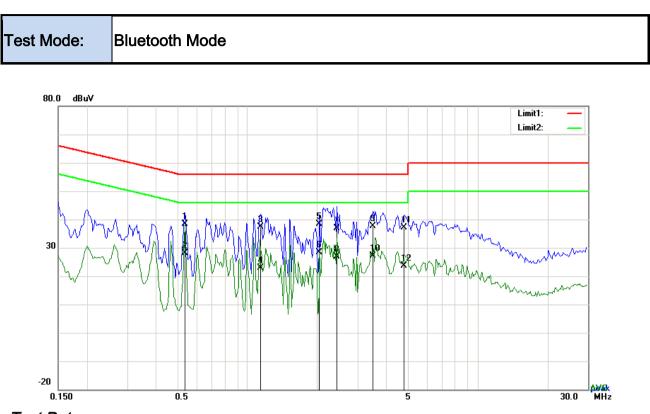
· · · · · · · · · · · · · · · · · · ·								
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	0.1617	32.03	QP	13.16	45.19	65.38	-20.19
2	Ν	0.1617	14.80	AVG	13.16	27.96	55.38	-27.42
3	Ν	0.4863	23.75	QP	11.95	35.70	56.23	-20.53
4	Ν	0.4863	11.98	AVG	11.95	23.93	46.23	-22.30
5	Ν	0.9924	20.90	QP	11.41	32.31	56.00	-23.69
6	Ν	0.9924	7.51	AVG	11.41	18.92	46.00	-27.08
7	Ν	1.3044	19.42	QP	11.44	30.86	56.00	-25.14
8	Ν	1.3044	9.19	AVG	11.44	20.63	46.00	-25.37
9	Ν	2.2248	23.45	QP	11.55	35.00	56.00	-21.00
10	Ν	2.2248	14.45	AVG	11.55	26.00	46.00	-20.00
11	Ν	3.5304	18.76	QP	11.72	30.48	56.00	-25.52
12	Ν	3.5304	9.44	AVG	11.72	21.16	46.00	-24.84

# Phase Neutral Plot at 120Vac, 60Hz



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### Test Data

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)	
1	L1	0.5322	26.62	QP	11.87	38.49	56.00	-17.51	
2	L1	0.5322	16.29	AVG	11.87	28.16	46.00	-17.84	
3	L1	1.1406	26.01	QP	11.40	37.41	56.00	-18.59	
4	L1	1.1406	11.44	AVG	11.40	22.84	46.00	-23.16	
5	L1	2.0454	27.01	QP	11.40	38.41	56.00	-17.59	
6	L1	2.0454	16.95	AVG	11.40	28.35	46.00	-17.65	
7	L1	2.4354	25.53	QP	11.40	36.93	56.00	-19.07	
8	L1	2.4354	15.58	AVG	11.40	26.98	46.00	-19.02	
9	L1	3.5070	26.26	QP	11.40	37.66	56.00	-18.34	
10	L1	3.5070	15.81	AVG	11.40	27.21	46.00	-18.79	
11	L1	4.7784	25.78	QP	11.40	37.18	56.00	-18.82	
12	L1	4.7784	12.18	AVG	11.40	23.58	46.00	-22.42	

### Phase Line Plot at 240Vac, 60Hz



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# Test Mode: Bluetooth Mode

### Test Data

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	0.1968	29.15	QP	13.03	42.18	63.74	-21.56
2	Ν	0.1968	17.85	AVG	13.03	30.88	53.74	-22.86
3	Ν	0.2982	24.90	QP	12.65	37.55	60.29	-22.74
4	Ν	0.2982	14.53	AVG	12.65	27.18	50.29	-23.11
5	Ν	0.4464	24.86	QP	12.10	36.96	56.94	-19.98
6	Ν	0.4464	12.29	AVG	12.10	24.39	46.94	-22.55
7	Ν	1.4214	23.84	QP	11.45	35.29	56.00	-20.71
8	Ν	1.4214	11.12	AVG	11.45	22.57	46.00	-23.43
9	Ν	2.2482	24.87	QP	11.56	36.43	56.00	-19.57
10	N	2.2482	16.41	AVG	11.56	27.97	46.00	-18.03
11	Ν	12.8319	11.41	QP	13.74	25.15	60.00	-34.85
12	Ν	12.8319	1.31	AVG	13.74	15.05	50.00	-34.95

### Phase Neutral Plot at 240Vac, 60Hz



# 6.9 Radiated Emissions & Restricted Band

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1023mbar
Test date :	September 27, 2017
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	equirement Applicable					
47CFR§15.		Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spe the level of any unwanted emission the fundamental emission. The tigh edges					
205,		Frequency range (MHz)	Field Strength (µV/m)	_			
§15.209,	a)	0.009~0.490	2400/F(KHz)	•			
§15.247(d)		0.490~1.705	24000/F(KHz)				
3.0.2(0)		1.705~30.0	30				
		30 - 88	100				
		88 - 216	150				
		216 960	200				
		Above 960	500				
Test Setup			3 meter				



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	Ant. Tower LUT& Support Units 0.8/1.5m Ground Plane Test Receiver
	1. The EUT was switched on and allowed to warm up to its normal operating condition.
Procedure	<ol> <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:         <ul> <li>a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>b. The EUT was then rotated to the direction that gave the maximum emission.</li> <li>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ul> </li> <li>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</li> <li>4. 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.</li> <li>The resolution bandwidth of test receiver/spectrum analyzer is 10Hz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz.</li> <li>5. Steps 2 and 3 were repeated for the next frequency point, until all selected</li> </ol>
Remark	frequency points were measured.
Result	Pass Fail
Test Data Test Plot	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.

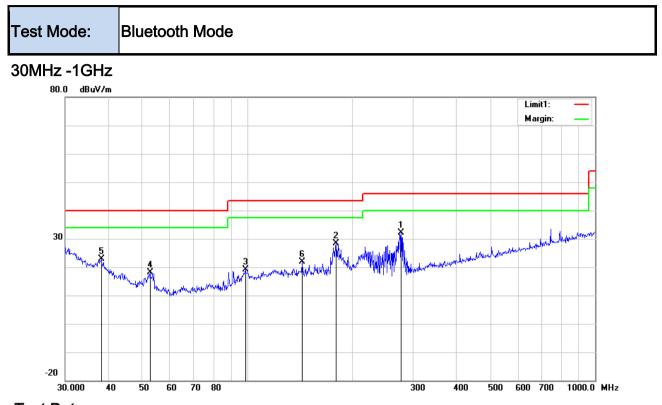
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

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



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# Test Data

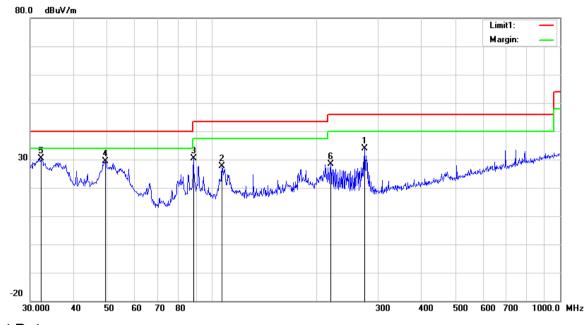
# Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
		(MHz)	(dBuV/m)	or	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	ее ( )
1	Н	277.0935	39.97	peak	12.59	22.29	1.75	32.02	46.00	-13.98	100	123
2	Н	180.0165	38.23	peak	11.00	22.25	1.36	28.34	43.50	-15.16	200	122
3	Н	98.8326	30.16	peak	10.12	22.32	1.09	19.05	43.50	-24.45	100	123
4	Н	52.5753	31.65	peak	8.12	22.39	0.79	18.17	40.00	-21.83	100	29
5	Н	38.0783	29.05	peak	15.30	22.27	0.78	22.86	40.00	-17.14	100	18
6	Н	143.8295	30.29	peak	12.60	22.38	1.30	21.81	43.50	-21.69	100	118



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### 30MHz -1GHz



### Test Data

# Vertical Polarity Plot @3m

No		Frequency	Deading	Detect	Ant E		Cabl	Beault	Linait	Margin	Hojaht	Dear
No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
				or								ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	V	274.1939	41.92	peak	12.46	22.29	1.74	33.83	46.00	-12.17	100	118
		21 11 1000		pour	12.10							
2	v	106 7597	27.04	naak	11.58	22.22	1 15	07.64	12 50	15 00	100	100
2	v	106.7587	37.21	peak	11.00	22.33	1.15	27.61	43.50	-15.89	100	109
-												_
3	V	88.3421	43.73	peak	7.93	22.34	0.99	30.31	43.50	-13.19	200	5
4	V	49.3594	42.37	peak	8.68	22.37	0.79	29.47	40.00	-10.53	100	356
5	V	32.2925	32.34	peak	19.63	22.27	0.68	30.38	40.00	-9.62	100	47
				-								
6	V	219.0753	37.39	peak	11.83	22.35	1.60	28.47	46.00	-17.53	100	137
5	v	210.0700	07.00	peak	11.00	22.00	1.00	20.47	40.00	17.00	100	107



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Above 1GHz

Test Mode:

Transmitting Mode

### Low Channel: 8-DPSK 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	40.25	AV	V	33.39	7.22	48.46	32.4	54	-21.6
4804	38.16	AV	Н	33.39	7.22	48.46	30.31	54	-23.69
4804	53.27	PK	V	33.39	7.22	48.46	45.42	74	-28.58
4804	51.64	PK	Н	33.39	7.22	48.46	43.79	74	-30.21
5786	33.56	AV	V	34.58	8.21	48.36	27.99	54	-26.01
5786	32.19	AV	Н	34.58	8.21	48.36	26.62	54	-27.38
5786	51.82	PK	V	34.58	8.21	48.36	46.25	74	-27.75
5786	50.49	PK	Н	34.58	8.21	48.36	44.92	74	-29.08

### Middle Channel: 8-DPSK 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	38.45	AV	V	33.62	7.53	48.36	31.24	54	-22.76
4882	36.51	AV	Н	33.62	7.53	48.36	29.3	54	-24.7
4882	52.13	PK	V	33.62	7.53	48.36	44.92	74	-29.08
4882	50.49	PK	Н	33.62	7.53	48.36	43.28	74	-30.72
14485	26.31	AV	V	42.04	14.23	45.82	36.76	54	-17.24
14485	24.51	AV	Н	42.04	14.23	45.82	34.96	54	-19.04
14485	43.78	PK	V	42.04	14.23	45.82	54.23	74	-19.77
14485	40.81	PK	Н	42.04	14.23	45.82	51.26	74	-22.74



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Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	38.95	AV	V	33.89	7.86	48.31	32.39	54	-21.61
4960	36.42	AV	Н	33.89	7.86	48.31	29.86	54	-24.14
4960	50.74	PK	V	33.89	7.86	48.31	44.18	74	-29.82
4960	49.31	PK	Н	33.89	7.86	48.31	42.75	74	-31.25
17931	19.23	AV	V	43.21	19.44	44.4	37.48	54	-16.52
17931	17.25	AV	Н	43.21	19.44	44.4	35.5	54	-18.5
17931	37.41	PK	V	43.21	19.44	44.4	55.66	74	-18.34
17931	36.29	PK	Н	43.21	19.44	44.4	54.54	74	-19.46

### High Channel: π /4 DQPSK Mode (Worst Case) (2480 MHz)

### 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.

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



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# Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	~
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	~
Line Impedance	LI-125A	191107	09/23/2017	09/22/2018	
ISN	ISN T800	34373	09/23/2017	09/22/2018	
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	V
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/15/2017	09/14/2018	<b>V</b>
Power Splitter	1#	1#	08/30/2017	08/29/2018	<b>v</b>
DC Power Supply	E3640A	MY40004013	09/15/2017	09/14/2018	
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	<b>v</b>
Positioning Controller	UC3000	MF780208282	11/17/2017	11/16/2018	<b>v</b>
OPT 010 AMPLIFIER	04475	0707400400	00/00/0047	00/00/0040	
(0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	2
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	V
Active Antenna (9kHz-30MHz)	AL-130	121031	10/12/2017	10/11/2018	•
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	V
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/22/2017	09/21/2018	K
Universal Radio Communication Tester	CMU200	121393	09/23/2017	09/22/2018	



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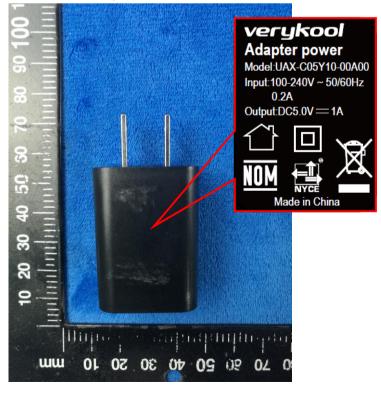
# Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Lable View





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EUT - Front View



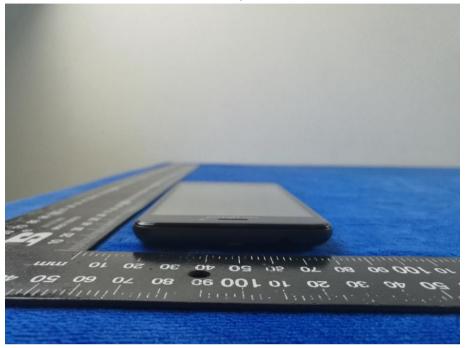
EUT - Rear View



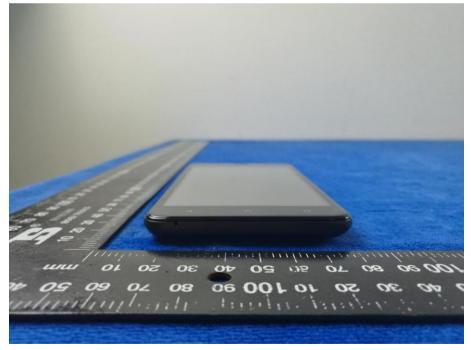


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EUT - Top View



### EUT - Bottom View

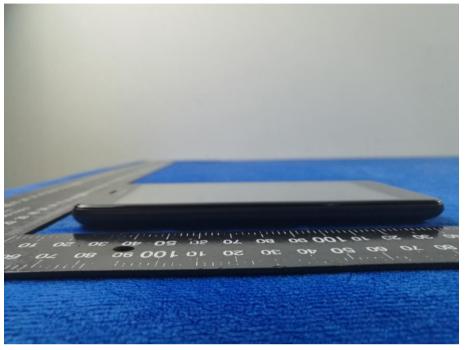




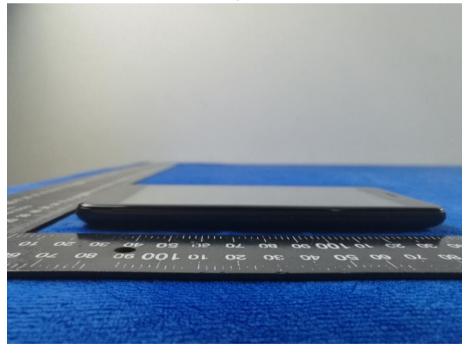
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EUT - Left View



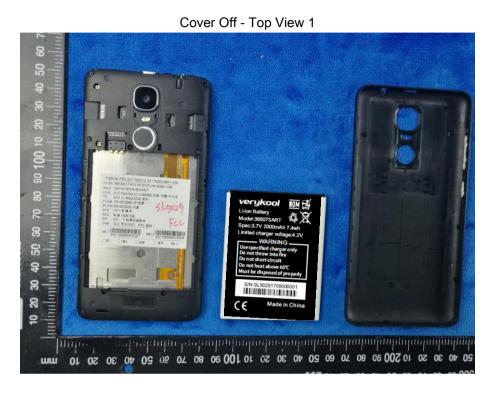
### EUT - Right View





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



Cover Off - Top View 2





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**Battery - Front View** 



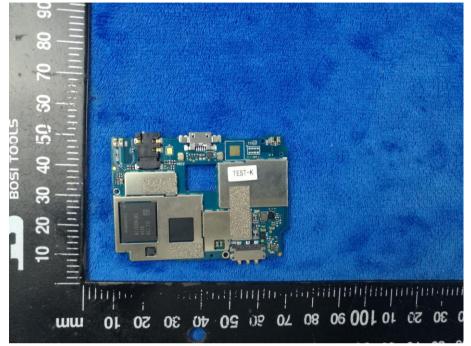
Battery - Rear View



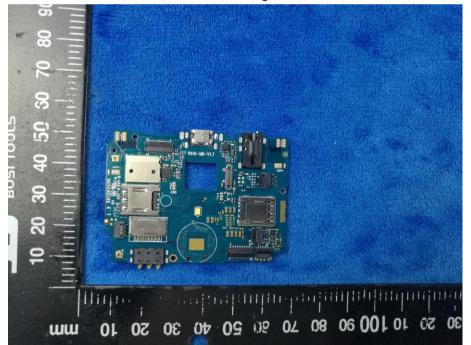


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Mainboard with Shielding - Front View



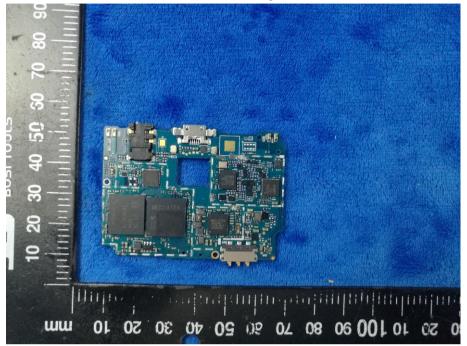
Mainboard with Shielding - Rear View



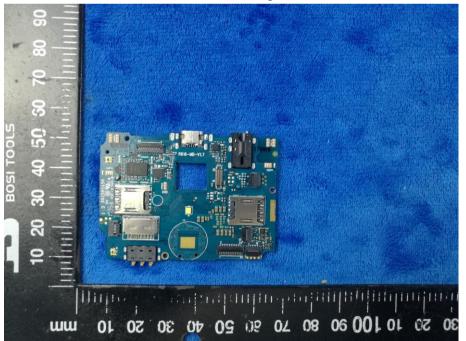


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Mainboard without Shielding - Front View



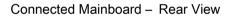
Mainboard without Shielding - Rear View

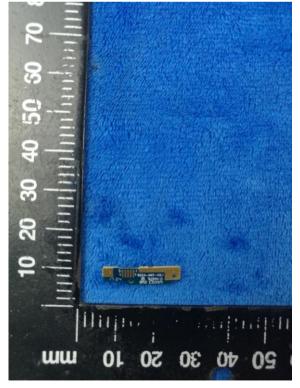




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### Connected Mainboard - Front View







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LCD - Front View



LCD – Rear View



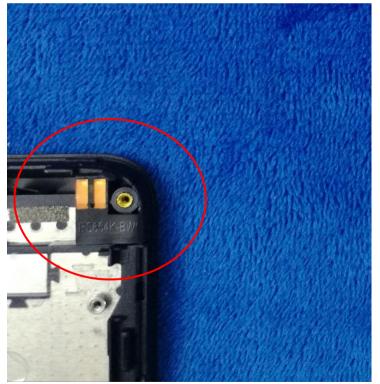


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### GSM/PCS/UMTS-FDD - Antenna View



WIFI/BT/BLE/GPS - Antenna View





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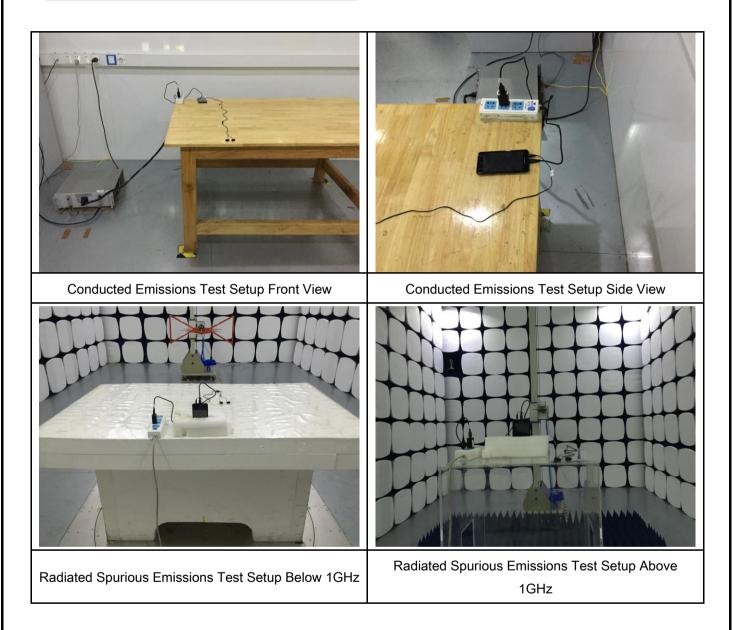
LTE - Antenna View





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# Annex B.iii. Photograph: Test Setup Photo



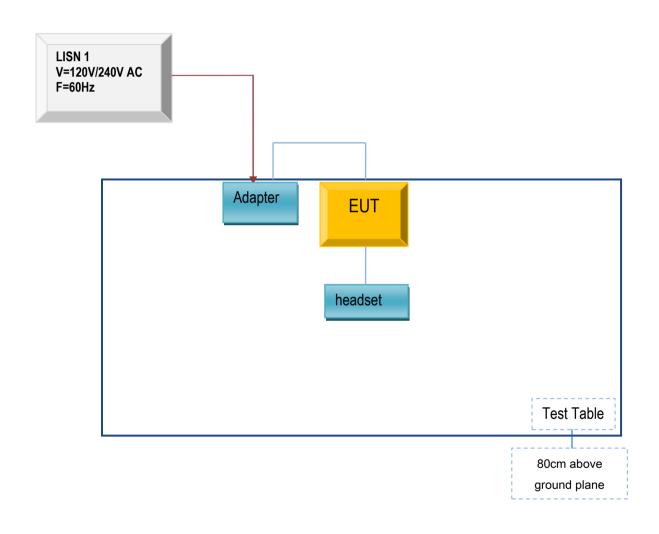


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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for AC Line Conducted Emissions

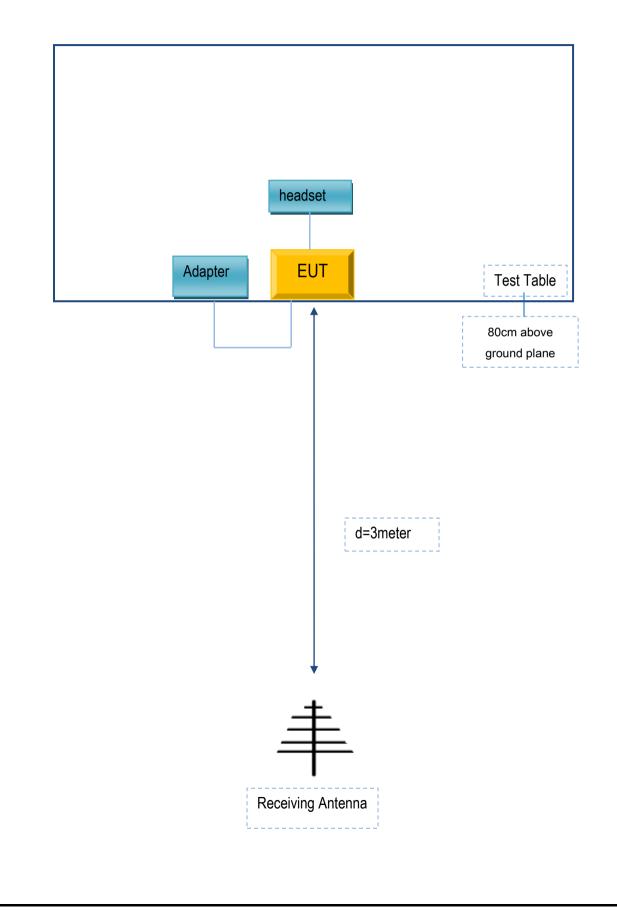




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Block Configuration Diagram for Radiated Emissions (Below 1GHz).

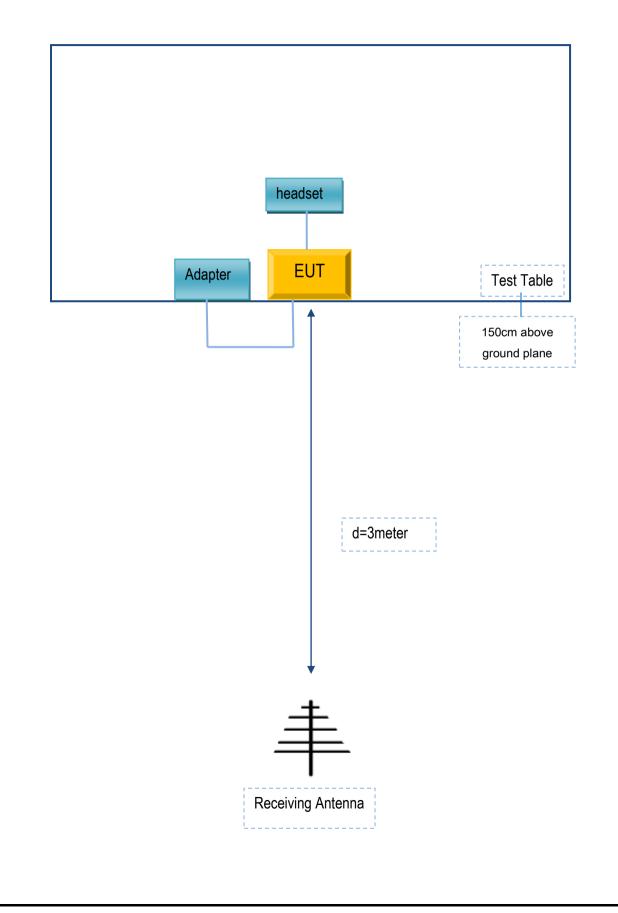




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# Block Configuration Diagram for Radiated Emissions (Above 1GHz).





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# Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

# Supporting Equipment:

Manufacturer	Equipment Model Description		Serial No
Verykool USA Inc	Adapter	UAX-C05Y10-00A00	N/A
Verykool USA Inc	headset	SL5029	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