# RF TEST REPORT



Report No.: 17070659-FCC-R3
Supersede Report No.: N/A

Applicant	TECNO MOBILE LIMITED			
Product Name	Mobile pho	Mobile phone		
Model No.	AX8			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2016, ANSI C63.10: 2	013	
Test Date	July 29 to 9	September 14, 2017		
Issue Date	September	15, 2017		
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did no	Equipment did not comply with the specification			
LOVER LUO David Huang				
Loren Luo Test Engineer		David Huang Checked By		

This test report may be reproduced in full only

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

#### Issued by:

### SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

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



Test Repor	t	17070659-FCC-R3
Page		2 of 68

### **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



Test Report	17070659-FCC-R3
Page	3 of 68

This page has been left blank intentionally.



Test Report	17070659-FCC-R3
Page	4 of 68

## **CONTENTS**

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
	EQUIPMENT UNDER TEST (EUT) INFORMATION	
5.	TEST SUMMARY	9
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	10
6.1	ANTENNA REQUIREMENT	10
6.2	CHANNEL SEPARATION	11
6.3	20DB BANDWIDTH	15
6.4	PEAK OUTPUT POWER	19
6.5	NUMBER OF HOPPING CHANNEL	23
6.6	TIME OF OCCUPANCY (DWELL TIME)	25
6.7	BAND EDGE & RESTRICTED BAND	29
6.8	AC POWER LINE CONDUCTED EMISSIONS	37
6.9	RADIATED EMISSIONS & RESTRICTED BAND	43
INA	NEX A. TEST INSTRUMENT	50
INA	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	51
ANI	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	63
ANI	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	67
ANI	NEX E. DECLARATION OF SIMILARITY	68



Test Report	17070659-FCC-R3
Page	5 of 68

### 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070659-FCC-R3	NONE	Original	September 15, 2017

### 2. Customer information

Applicant Name	TECNO MOBILE LIMITED
Applicant Add	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE,
	HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Manufacturer Add	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian
	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
Lab Address	2-1 Longcang Avenue Yuhua Economic and
	Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMC(ver.lcp-03A1)

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



Test Report	17070659-FCC-R3
Page	6 of 68

### 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
---------------------	--------------

Main Model: AX8

Serial Model: N/A

Date EUT received: July 28, 2017

Test Date(s): July 29 to September 14, 2017

Equipment Category: DSS

Antenna Gain:

Type of Modulation:

GSM850: -2.53dBi PCS1900: -1.31dBi

UMTS-FDD Band V: -2dBi UMTS-FDD Band II: -1.74dBi

LTE Band II: -1.31dBi LTE Band IV: -2.64dBi

LTE Band V: -2.14dBi LTE Band VII: -0.27dBi

WIFI(2.4G): -0.87 dBi

WIFI(5150-5250MHz): -5.3 dBi WIFI(5250-5350MHz): -5.3 dBi WIFI(5725-5850MHz): -5.3 dBi

Bluetooth/BLE: -0.87dBi

GPS: -1.47dBi

Antenna Type: IFA antenna

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

LTE Band: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK,  $\pi$  /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



Test Report	17070659-FCC-R3
Page	7 of 68

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

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

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

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

RX: 1932.4 ~ 1987.6 MHz

LTE Band II TX:  $1850.7 \sim 1909.3 \text{MHz}$ ; RX :  $1930.7 \sim 1989.3 \text{ MHz}$  LTE Band IV TX:  $1710.7 \sim 1754.3 \text{ MHz}$ ; RX :  $2110.7 \sim 2154.3 \text{ MHz}$ 

LTE Band V TX: 824.7~ 848.3 MHz; RX: 869.7 ~ 893.3MHz

RF Operating Frequency (ies): LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX: 2622.5 ~ 2687.5 MHz

802.11b/g: 2412-2462 MHz (TX/RX)

802.11n20: 2412-2462MHz ; 5180-5240 MHz; 5260-5320 MHz; 5745-

5825 MHz; (TX/RX)

802.11n40: 2422-2452 MHz (TX/RX); 5190-5230 MHz; 5270-5310

MHz; 5755-5795 MHz; (TX/RX)

802.11 a: 5180-5240 MHz; 5260-5320 MHz; 5745-5825 MHz (TX/RX)

Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

Max. Output Power: 2.645dBm

GSM 850: 124CH PCS1900: 299CH

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

WIFI:802.11b/g: 11CH

Number of Channels: WIFI:802.11a: 24CH

WIFI:802.11n20: 11CH(2.4GHz); 24CH(5GHz) WIFI:802.11n40: 7CH(2.4GHz); 12CH(5GHz)

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: USB Port, Earphone Port



Test Report	17070659-FCC-R3
Page	8 of 68

Adapter:

Model: CQ-18KX

Input: AC100-240V~50/60Hz,400mA

Output: DC 5V-9V,2A

DC9V-12V,1.5A

Input Power:

Battery:

Model: BL-35AT

Rating: 3.85V, 3500mAh/3600mAh(min/typ)

13.47Wh/13.86Wh(min/typ)

Limited charge voltage: 4.4V

Trade Name: TECNO

FCC ID: 2ADYY-AX8



Test Report	17070659-FCC-R3
Page	9 of 68

## 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	
-	-	-	



Test Report	17070659-FCC-R3
Page	10 of 68

#### 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 IFA antenna for Bluetooth/BLE/2.4G WIFI/5G WIFI/GPS, the gain is -0.87dBi for Bluetooth/BLE, the gain is -0.87dBi for 2.4G WIFI, the gain is -5.3dBi for 5150-5250MHz/5250-5350MHz/5725-2850MHz MHz 5G WIFI, the gain is -1.47dBi for GPS.

A permanently attached IFA antenna for GSM/PCS/UMTS, the gain is -2.53dBi for GSM850, -1.31dBi for PCS1900, -2dBi for UMTS-FDD Band V, -1.74dBi for UMTS-FDD Band II.

A permanently attached IFA antenna for LTE Band II/IV/V/VII, the gain is -1.31dBi for LTE Band II, the gain is -2.64dBi for LTE Band IV, the gain is -2.14dBi for LTE Band V, the gain is -0.27dBi for LTE Band VII.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



Test Report	17070659-FCC-R3
Page	11 of 68

### 6.2 Channel Separation

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 12, 2017
Tested By :	Loren Luo

#### Requirement(s):

Requirement(s):	1		,		
Spec	Item	Requirement Applicable			
S 45 047/-1/41		Channel Separation < 20dB BW and 20dB BW <			
		25KHz ; Channel Separation Limit=25KHz	<b>V</b>		
§ 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				
	The to	est follows FCC Public Notice DA 00-705 Measurement	Guidelines.		
	Use t	ne following spectrum analyzer settings:			
	- The EUT must have its hopping function enabled				
	-	- Span = wide enough to capture the peaks of two adjacent			
	channels				
	- Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span				
Test Procedure	- Video (or Average) Bandwidth (VBW) ≥ RBW				
1000110000000	- 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 adjacent				
		channels. The limit is specified in one of the subparagr	aphs of this		
		Section. Submit this plot.			



Test Report	17070659-FCC-R3
Page	12 of 68

Rema	rk				
Resu	lt	Pass	Fail		
Test Data	Yes	<b>.</b>	□ <sub>N/A</sub>		
Test Plot	Ye	s (See below)	□ <sub>N/A</sub>		

### Channel Separation measurement result

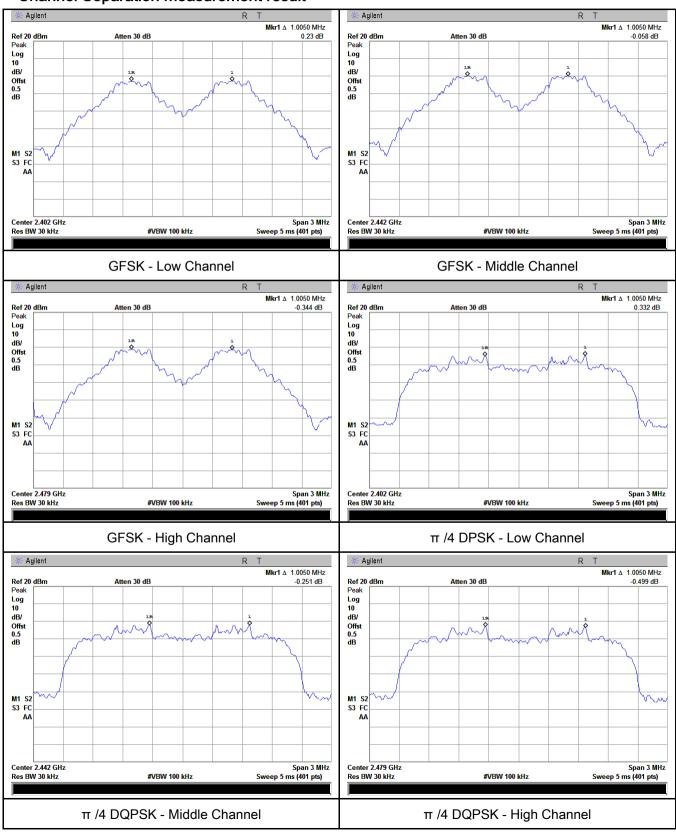
Type/ Modulation	СН	CH Frequency (MHz)	CH Separation (MHz)	Limit (MHz)	Result
	Low Channel	2402	1.005	0.686	Pass
	Adjacency Channel	2403	1.005	0.000	Pa55
CH Separation	Mid Channel	2440	1.005	0.684	Door
GFSK	Adjacency Channel	2441	1.005	0.004	Pass
	High Channel	2480	1.005	0.605	Desc
	Adjacency Channel	2479	1.005	0.685	Pass
	Low Channel	2402	1.005	0.864	Desc
	Adjacency Channel	2403	1.005	0.864	Pass
CH Separation	Mid Channel	2440	4.005	0.000	Dese
π /4 DQPSK	Adjacency Channel	2441	1.005	0.869	Pass
	High Channel	2480	4.005	0.004	Dese
	Adjacency Channel	2479	1.005	0.864	Pass
	Low Channel	2402	4.005	0.007	D
	Adjacency Channel	2403	1.005	0.867	Pass
CH Separation	Mid Channel	2440	4.005	0.005	Dana
8DPSK	Adjacency Channel	2441	1.005	0.865	Pass
	High Channel	2480	4.005	0.005	Dese
	Adjacency Channel	2479	1.005	0.865	Pass



Test Report	17070659-FCC-R3
Page	13 of 68

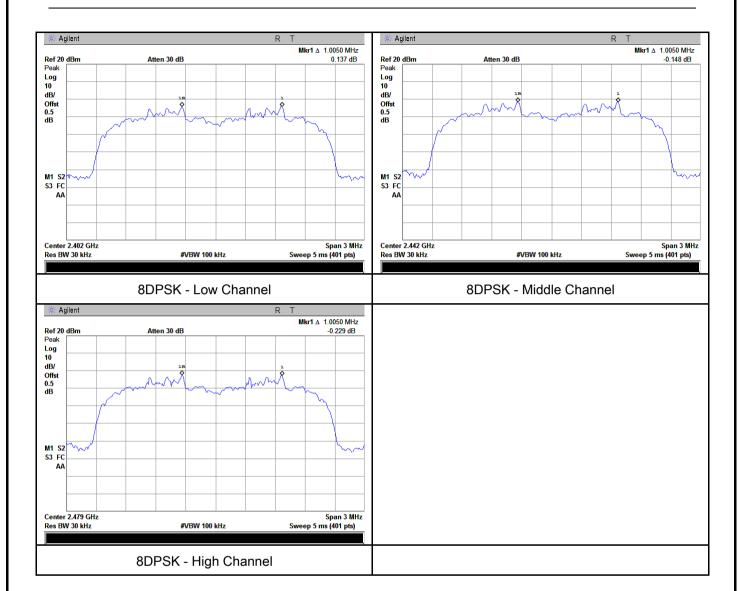
#### **Test Plots**

#### Channel Separation measurement result





Test Report	17070659-FCC-R3
Page	14 of 68





Test Report	17070659-FCC-R3
Page	15 of 68

### 6.3 20dB Bandwidth

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 12, 2017
Tested By:	Loren Luo

Requirement(s):					
Spec	Item	Requirement	Applicable		
		Frequency hopping systems shall have hopping			
§15.247(a)	a)	channel carrier frequencies separated by a minimum	<b>V</b>		
(1)	( a)	of 25 kHz or the 20 dB bandwidth of the hopping			
		channel, whichever is greater.			
Test Setup					
		Spectrum Analyzer EUT			
The test follows FCC Public Notice DA 00-705 Measurement Guide					
	Use the 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				
Test	- Sweep = auto				
Procedure	- Detector function = peak				
Flocedule	- Trace = max hold.				
	- 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	ne		
emission, until it is (as close as possible to) even with the re-			reference		



Test Report	17070659-FCC-R3
Page	16 of 68

		marker	level. The marker-delta reading at this point is the 20 dB
		bandwid	dth of the emission. If this value varies with different modes of
		operatio	on (e.g., data rate, modulation format, etc.), repeat this test for
		each va	riation. 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	V	es (See below)	N/A

#### Measurement result

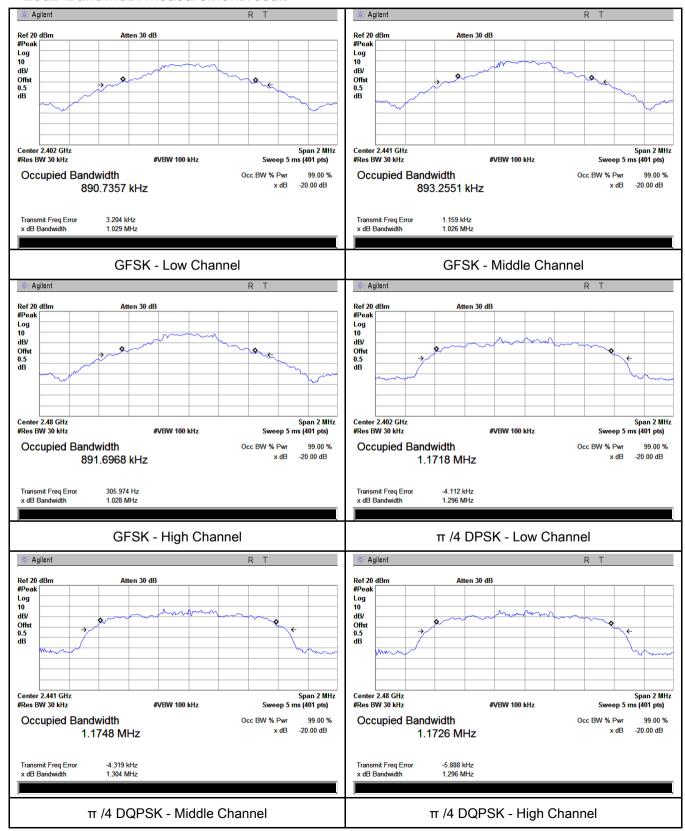
Modulation	СН	CH Frequency	20dB Bandwidth	99% Occupied
Modulation		(MHz)	(MHz)	Bandwidth (MHz)
	Low	2402	1.029	0.8907
GFSK	Mid	2441	1.026	0.8933
	High	2480	1.028	0.8917
	Low	2402	1.296	1.1718
π /4 DQPSK	Mid	2441	1.304	1.1748
	High	2480	1.296	1.1726
	Low	2402	1.300	1.1764
8-DPSK	Mid	2441	1.297	1.1785
	High	2480	1.297	1.1772



Test Report	17070659-FCC-R3
Page	17 of 68

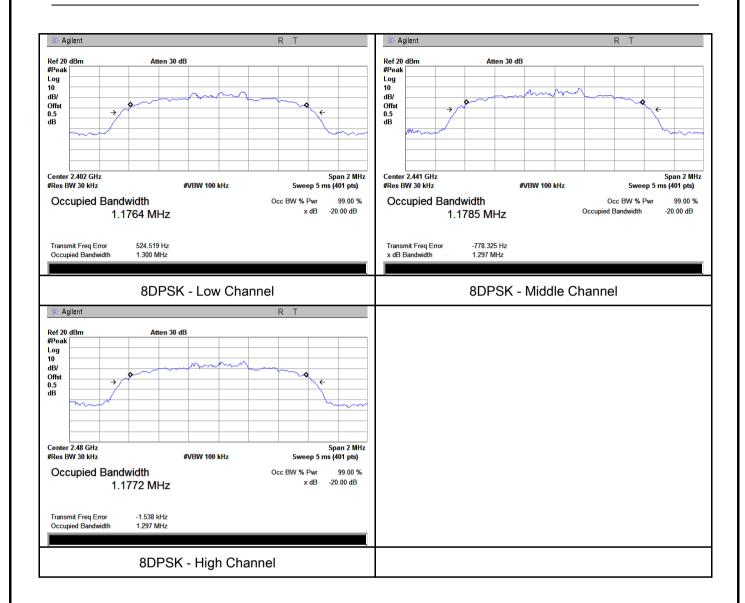
#### **Test Plots**

#### 20dB Bandwidth measurement result





Test Report	17070659-FCC-R3
Page	18 of 68





Test Report	17070659-FCC-R3
Page	19 of 68

### 6.4 Peak Output Power

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 12, 2017
Tested By:	Loren Luo

### Requirement(s):

Spec	Item	Requirement Applicable			
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt	<u>\</u>		
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt			
§15.247(b)	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.	<u>\</u>		
(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, cent	ered on a		
		hopping channel			
Test	- RBW > the 20 dB bandwidth of the emission being measured				
Procedure	-	- VBW ≥ RBW			
	- Sweep = auto				
	- Detector function = peak				
	- Trace = max hold				
	- Allow the trace to stabilize.				



Test Report	17070659-FCC-R3	
Page	20 of 68	

	- 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		
	above regarding external attenuation and cable loss). The limit is		
	specified in one of the subparagraphs of this Section. Submit this		
	plot. A peak responding power meter may be used instead of a		
	spectrum analyzer.		
Remark			
Result	Pass Fail		
Test Data	res N/A		

### Peak Output Power measurement result

Test Plot Yes (See below)

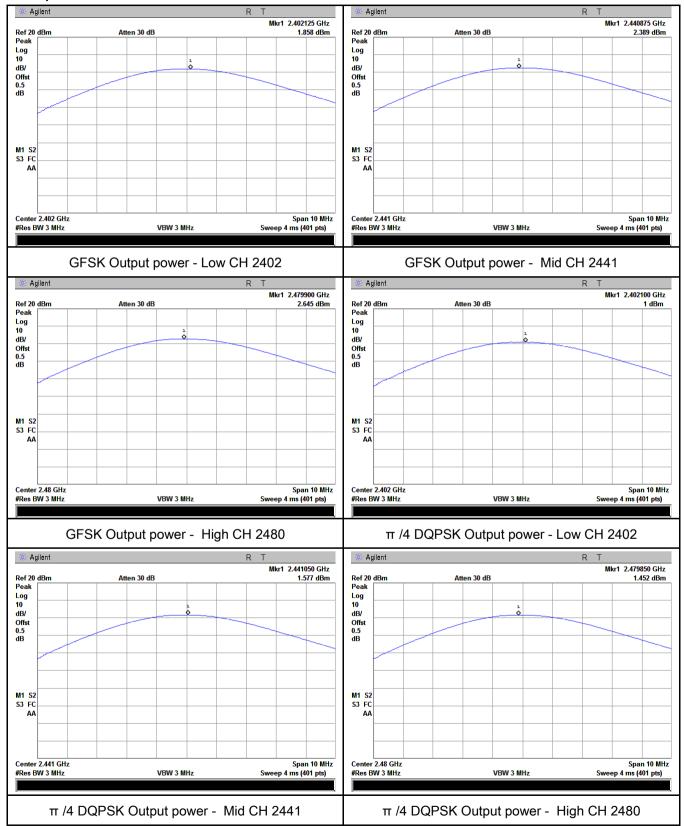
Туре	Modulation	СН	Frequenc y (MHz)	Conducted Power (dBm)	Limit (mW)	Result
		Low	2402	1.858	125	Pass
	GFSK	Mid	2441	2.389	125	Pass
Output power		High	2480	2.645	125	Pass
	π /4 DQPSK 8-DPSK	Low	2402	1.000	125	Pass
		Mid	2441	1.577	125	Pass
		High	2480	1.452	125	Pass
		Low	2402	1.119	125	Pass
		Mid	2441	1.768	125	Pass
		High	2480	1.881	125	Pass



Test Report	17070659-FCC-R3	
Page	21 of 68	

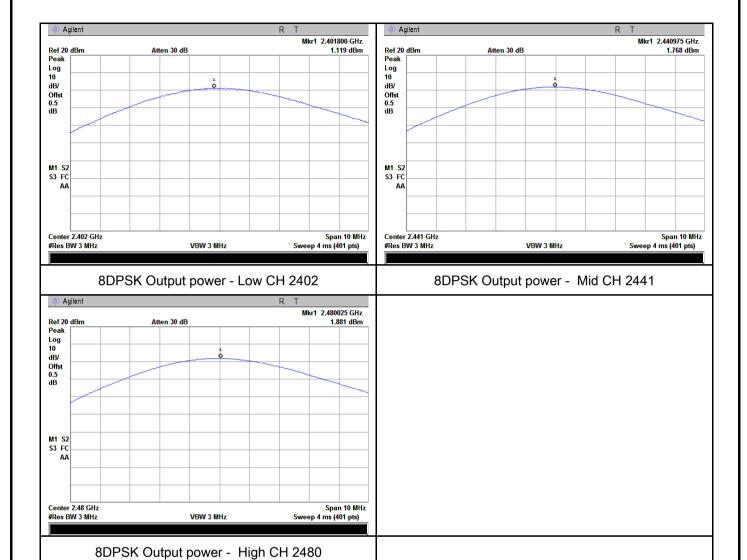
#### **Test Plots**

#### Output Power measurement result





Test Report	17070659-FCC-R3	
Page	22 of 68	





Test Report	17070659-FCC-R3	
Page	23 of 68	

### 6.5 Number of Hopping Channel

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 12, 2017
Tested By :	Loren Luo

Requirement(s):				
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	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			
Toot	- VBW ≥ RBW			
Test 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) N/A		



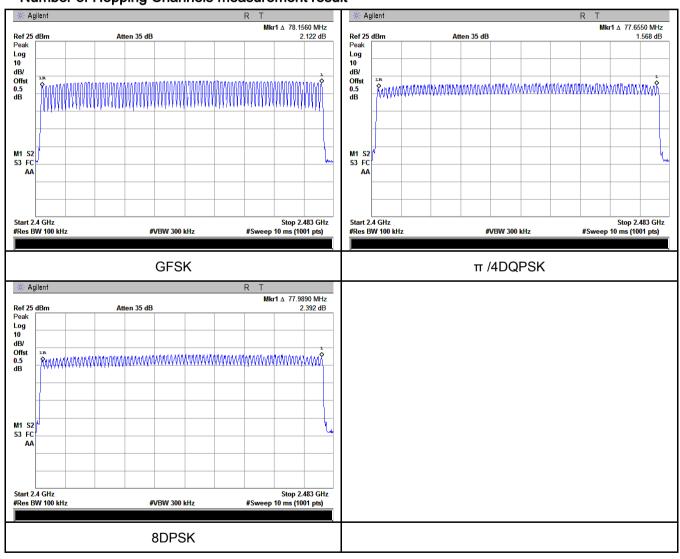
Test Report	17070659-FCC-R3	
Page	24 of 68	

#### Number of Hopping Channel measurement result

Туре	Modulation	Frequency Range	Number of Hopping Channel	Limit
Number	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





Test Report	17070659-FCC-R3
Page	25 of 68

### 6.6 Time of Occupancy (Dwell Time)

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 12, 2017
Tested By:	Loren Luo

#### Requirement(s):

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>



Test Report	17070659-FCC-R3
Page	26 of 68

#### **Dwell Time measurement result**

Туре	Modulation	СН	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
		Low	2.90	309.333	400	Pass
	GFSK	Mid	2.91	310.400	400	Pass
		High	2.91	310.400	400	Pass
		Low	2.92	311.467	400	Pass
Dwell Time	π /4 DQPSK	Mid	2.90	309.333	400	Pass
		High	2.92	311.467	400	Pass
		Low	2.90	309.333	400	Pass
	8-DPSK	Mid	2.90	309.333	400	Pass
		High	2.92	311.467	400	Pass

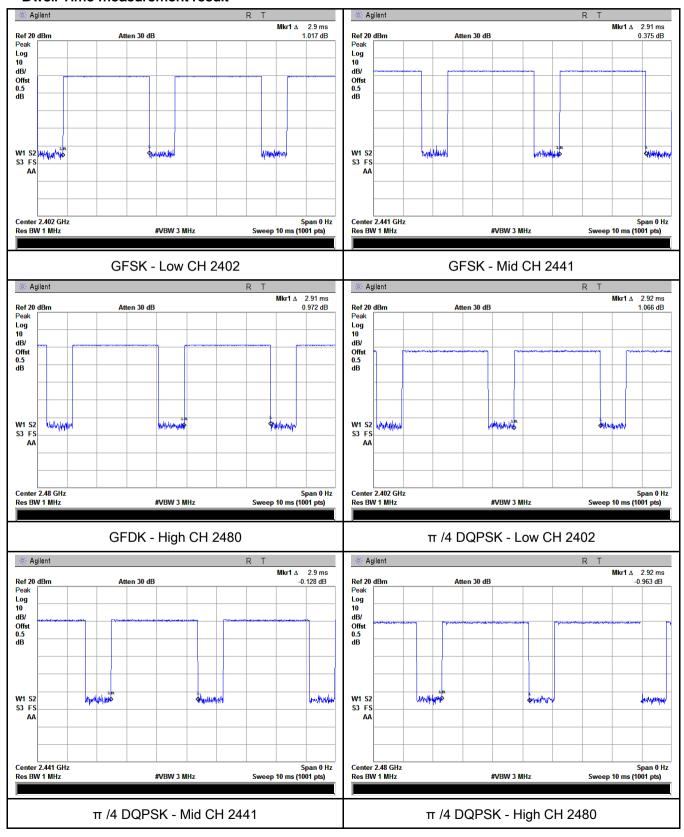
Note: Dwell time=Pulse Time (ms) × (1600  $\div$  6  $\div$  79) ×31.6



Test Report	17070659-FCC-R3
Page	27 of 68

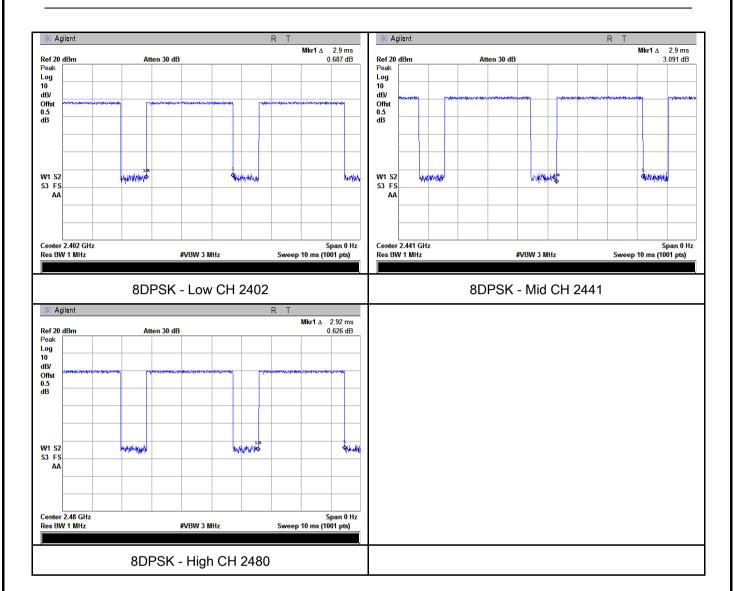
#### **Test Plots**

#### **Dwell Time measurement result**





Test Report	17070659-FCC-R3
Page	28 of 68





Test Report	17070659-FCC-R3
Page	29 of 68

### 6.7 Band Edge & Restricted Band

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1015mbar
Test date :	August 07, 2017
Tested By:	Evans He

### Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.	<b>&gt;</b>
Test Setup	Ant. Tower  Support Units  Turn Table  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>		



Test Report	17070659-FCC-R3
Page	30 of 68

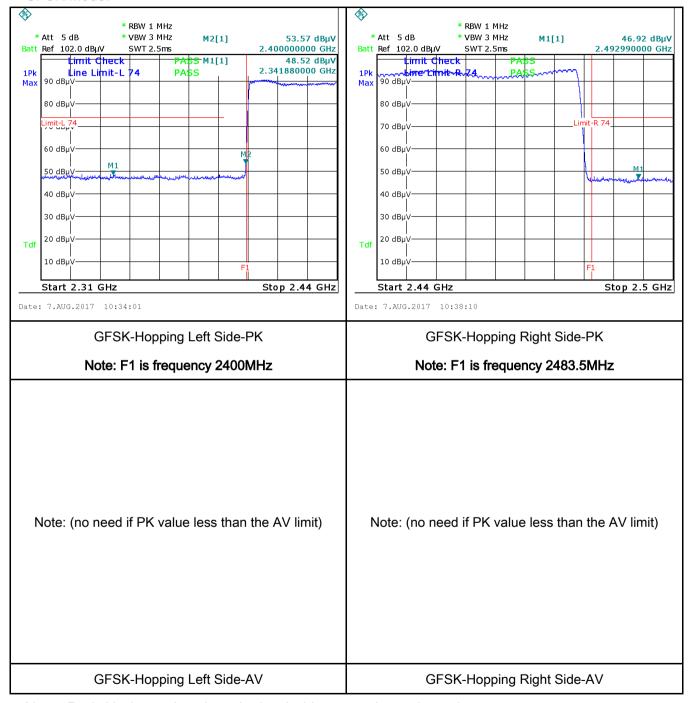
	and make ours the instrument is energted in its linear range
	and make sure the instrument is operated in its linear range.
	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a
	convenient frequency span including 100kHz bandwidth from band edge, check
	the emission of EUT, if pass 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	
Remark	
Result	Pass Fail
Test Data	Yes N/A
Test Plot	Yes (See below)



Test Report	17070659-FCC-R3
Page	31 of 68

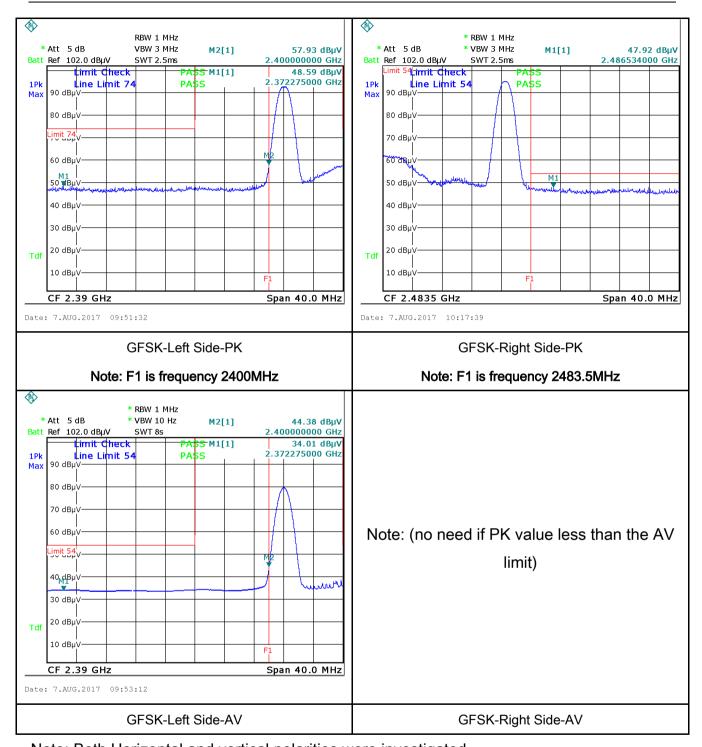
#### **Test Plots**

#### **GFSK Mode:**





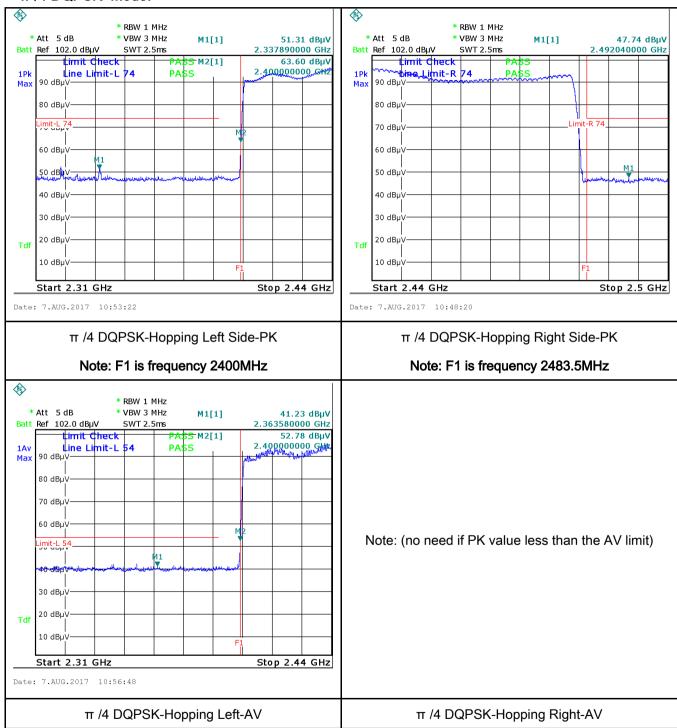
Test Report	17070659-FCC-R3
Page	32 of 68





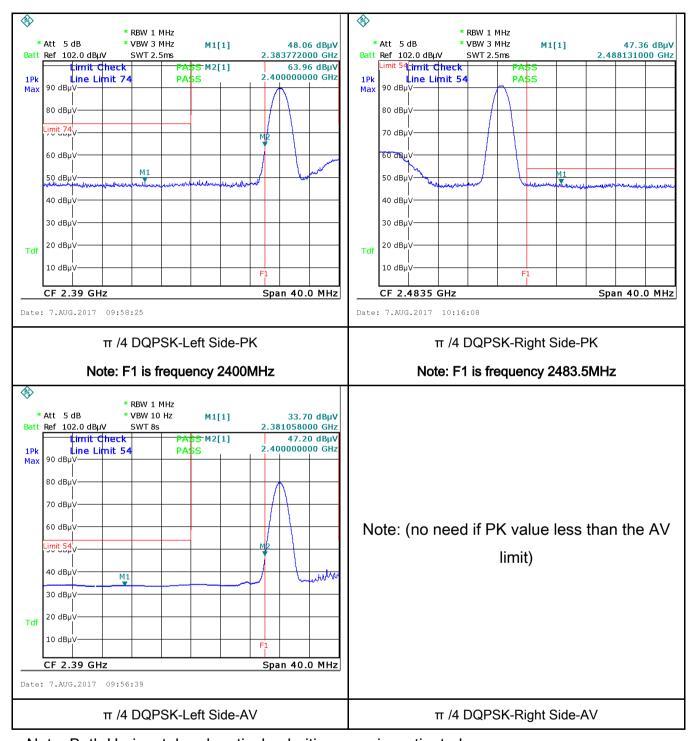
Test Report	17070659-FCC-R3
Page	33 of 68

#### π /4 DQPSK Mode:





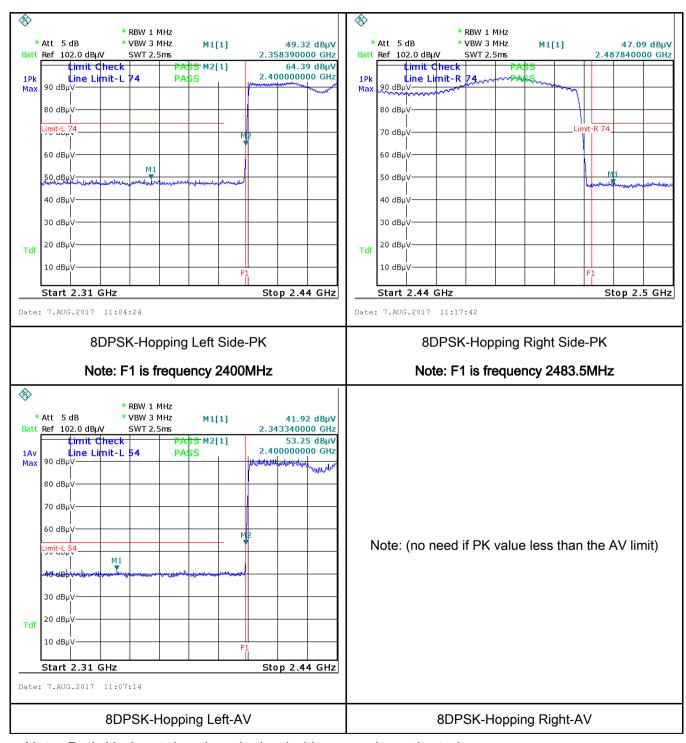
Test Report	17070659-FCC-R3
Page	34 of 68





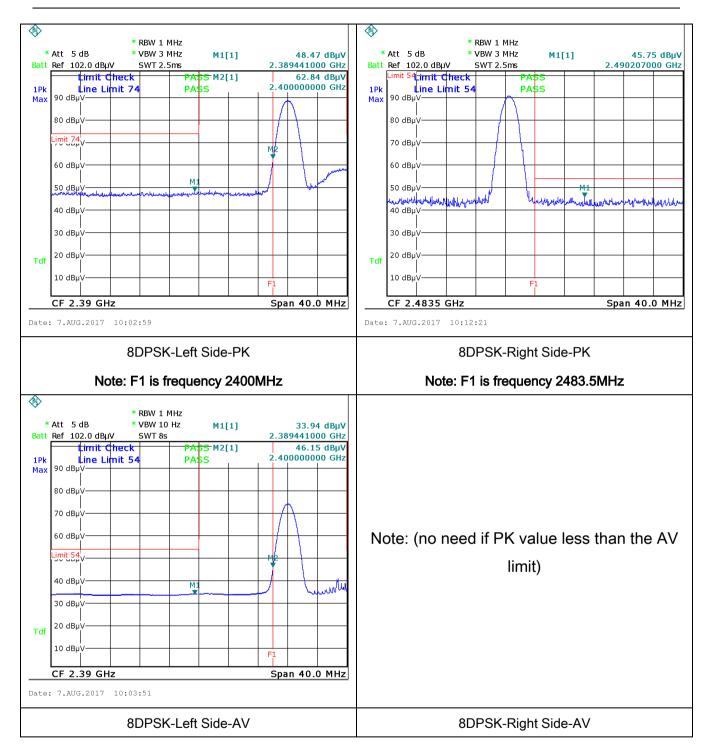
Test Report		17070659-FCC-R3
F	Page	35 of 68

#### 8-DPSK Mode:





Test Report	17070659-FCC-R3
Page	36 of 68





Test Report	17070659-FCC-R3		
Page	37 of 68		

# 6.8 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1015mbar
Test date :	August 07, 2017
Tested By :	Evans He

## Requirement(s):

Spec	Item	Requirement Applicable						
47CFR§15. 207, RSS210 (A8.1)	a)	connected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu]H/50 ohms line implower limit applies at the Frequency ranges	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 requency 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 ower limit applies at the boundary between the frequencies ranges.  Frequency ranges  Limit (dBµV)					
		(MHz) 0.15 ~ 0.5	QP 66 – 56	Average 56 - 46				
		0.15 ~ 0.5	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						
Procedure	the 2. The filte	e EUT and supporting equipment were set up in accordance with the requirements of e standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.  e power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to ered mains.  e RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss						



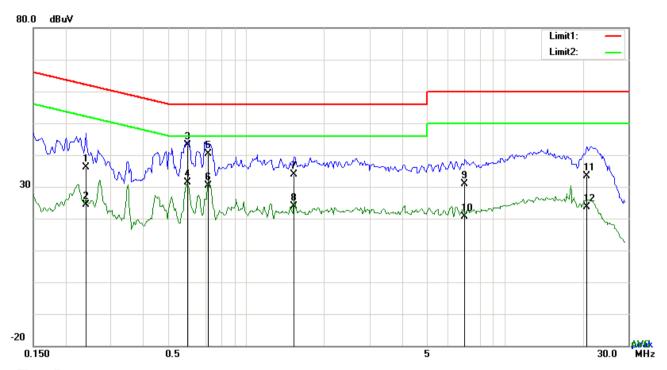
Test Report	17070659-FCC-R3
Page	38 of 68

	coaxial cable.					
	4. All other supporting equipment were powered separately from another main supply.					
	ne 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)					



Test Report	17070659-FCC-R3
Page	39 of 68

Test Mode:	Bluetooth Mode



#### Test Data

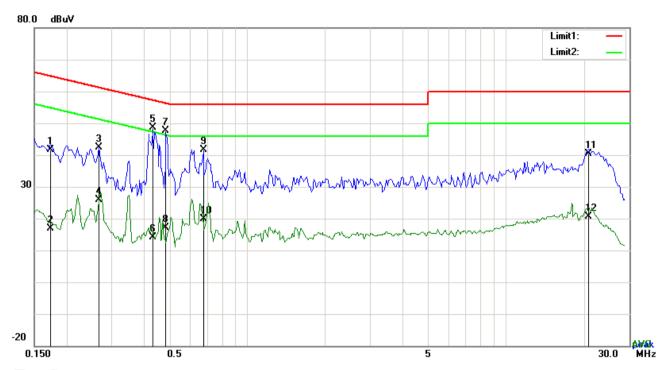
## Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2397	26.06	QP	10.03	36.09	62.11	-26.02
2	L1	0.2397	14.34	AVG	10.03	24.37	52.11	-27.74
3	L1	0.5946	33.17	QP	10.03	43.20	56.00	-12.80
4	L1	0.5946	21.46	AVG	10.03	31.49	46.00	-14.51
5	L1	0.7122	30.31	QP	10.03	40.34	56.00	-15.66
6	L1	0.7122	20.27	AVG	10.03	30.30	46.00	-15.70
7	L1	1.5345	23.81	QP	10.04	33.85	56.00	-22.15
8	L1	1.5345	13.89	AVG	10.04	23.93	46.00	-22.07
9	L1	7.0170	20.79	QP	10.11	30.90	60.00	-29.10
10	L1	7.0170	10.57	AVG	10.11	20.68	50.00	-29.32
11	L1	20.7333	23.01	QP	10.31	33.32	60.00	-26.68
12	L1	20.7333	13.37	AVG	10.31	23.68	50.00	-26.32



Test Report	17070659-FCC-R3		
Page	40 of 68		

Test Mode:	Bluetooth Mode
	i e e e e e e e e e e e e e e e e e e e



Test Data

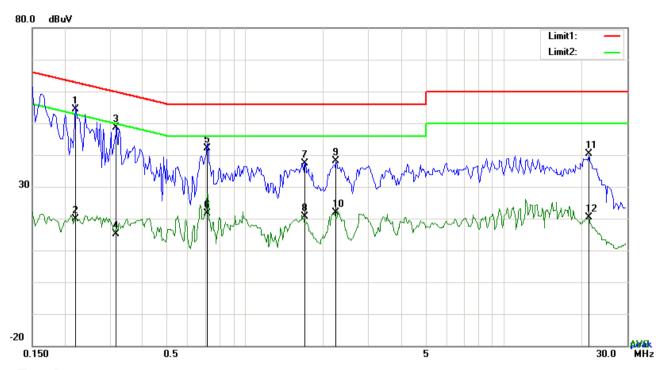
## Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1734	31.56	QP	10.02	41.58	64.80	-23.22
2	N	0.1734	6.94	AVG	10.02	16.96	54.80	-37.84
3	N	0.2670	32.40	QP	10.02	42.42	61.21	-18.79
4	N	0.2670	15.78	AVG	10.02	25.80	51.21	-25.41
5	N	0.4308	38.59	QP	10.02	48.61	57.24	-8.63
6	N	0.4308	4.23	AVG	10.02	14.25	47.24	-32.99
7	N	0.4854	37.54	QP	10.02	47.56	56.25	-8.69
8	N	0.4854	7.23	AVG	10.02	17.25	46.25	-29.00
9	N	0.6765	31.73	QP	10.02	41.75	56.00	-14.25
10	N	0.6765	9.75	AVG	10.02	19.77	46.00	-26.23
11	N	20.8191	30.12	QP	10.27	40.39	60.00	-19.61
12	N	20.8191	10.48	AVG	10.27	20.75	50.00	-29.25



Test Report	17070659-FCC-R3
Page	41 of 68

Test Mode:	Bluetooth Mode



#### Test Data

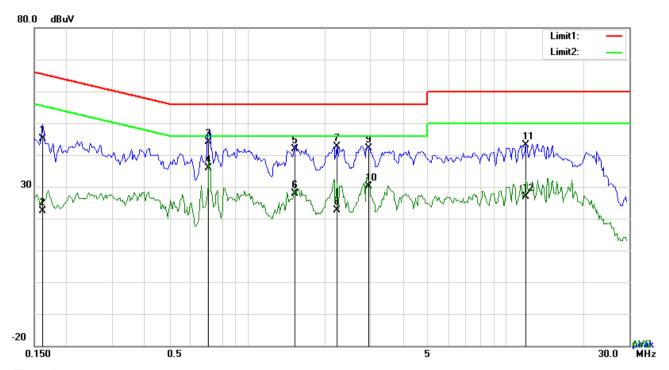
### Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.2202	44.38	QP	10.03	54.41	62.81	-8.40
2	L1	0.2202	9.93	AVG	10.03	19.96	52.81	-32.85
3	L1	0.3177	38.72	QP	10.03	48.75	59.77	-11.02
4	L1	0.3177	5.13	AVG	10.03	15.16	49.77	-34.61
5	L1	0.7155	32.10	QP	10.03	42.13	56.00	-13.87
6	L1	0.7155	11.59	AVG	10.03	21.62	46.00	-24.38
7	L1	1.6983	27.32	QP	10.04	37.36	56.00	-18.64
8	L1	1.6983	10.53	AVG	10.04	20.57	46.00	-25.43
9	L1	2.2443	28.19	QP	10.05	38.24	56.00	-17.76
10	L1	2.2443	11.92	AVG	10.05	21.97	46.00	-24.03
11	L1	21.3417	29.95	QP	10.33	40.28	60.00	-19.72
12	L1	21.3417	10.12	AVG	10.33	20.45	50.00	-29.55



Test Report	17070659-FCC-R3
Page	42 of 68

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	Ν	0.1617	35.17	QP	10.02	45.19	65.38	-20.19
2	Ν	0.1617	12.30	AVG	10.02	22.32	55.38	-33.06
3	Ν	0.7116	34.10	QP	10.02	44.12	56.00	-11.88
4	Ν	0.7116	25.87	AVG	10.02	35.89	46.00	-10.11
5	Ν	1.5345	31.74	QP	10.04	41.78	56.00	-14.22
6	N	1.5345	17.82	AVG	10.04	27.86	46.00	-18.14
7	Ν	2.2248	32.50	QP	10.04	42.54	56.00	-13.46
8	Ν	2.2248	12.62	AVG	10.04	22.66	46.00	-23.34
9	N	2.9463	32.06	QP	10.05	42.11	56.00	-13.89
10	N	2.9463	20.08	AVG	10.05	30.13	46.00	-15.87
11	Ν	11.9505	33.06	QP	10.16	43.22	60.00	-16.78
12	N	11.9505	16.71	AVG	10.16	26.87	50.00	-23.13



Test Report	17070659-FCC-R3
Page	43 of 68

# 6.9 Radiated Emissions & Restricted Band

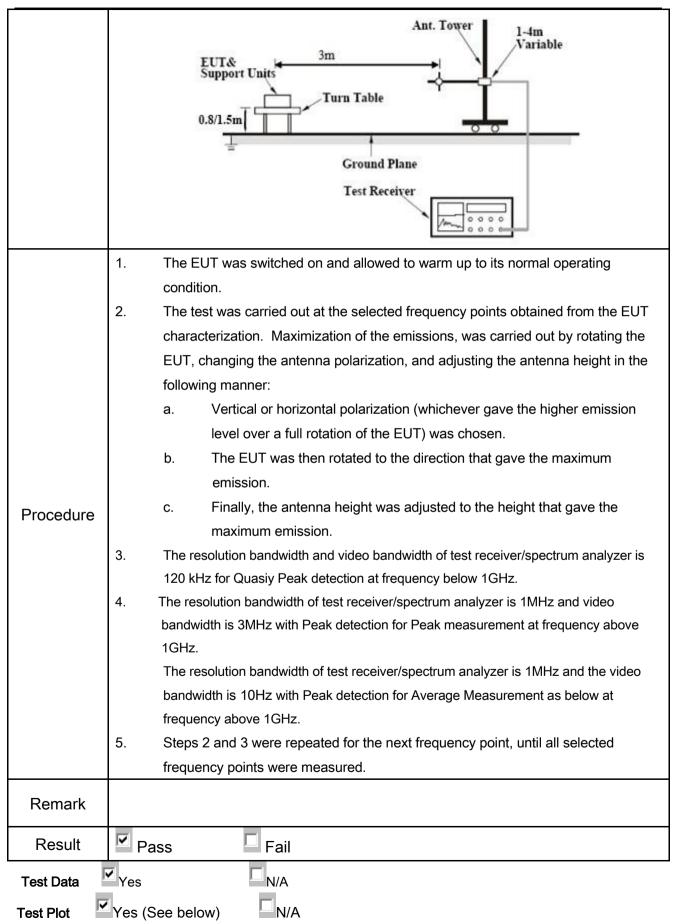
Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1015mbar
Test date :	August 07, 2017
Tested By:	Evans He

### Requirement(s):

Spec	Item	Requirement	Requirement Applicable		
47CFR§15.		Except higher limit as specified else emissions from the low-power radio exceed the field strength levels specified the level of any unwanted emissions the fundamental emission. The tight edges			
205, §15.209,	a)	Frequency range (MHz) 0.009~0.490	Field Strength (μV/m) 2400/F(KHz)	V	
		0.490~1.705	24000/F(KHz)		
§15.247(d)		1.705~30.0	30		
		30 - 88	100		
		88 – 216	150		
		216 960	200		
		Above 960	500		
Test Setup		EUT 0.8m	3 meter  RF Tes Receive	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	



Test Report	17070659-FCC-R3
Page	44 of 68





Test Report	17070659-FCC-R3
Page	45 of 68

## **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);

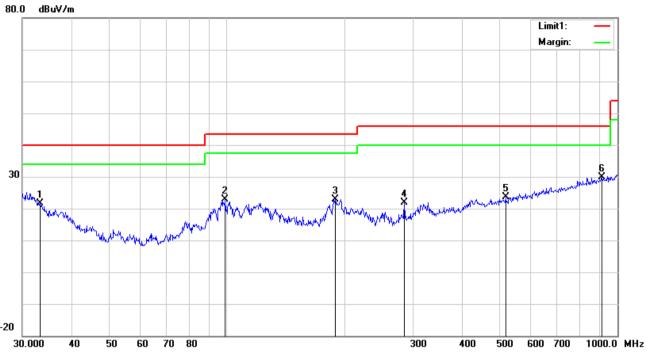
Limit line = specific limits(dBuv) + distance extrapolation factor.



Test Report	17070659-FCC-R3
Page	46 of 68

Test Mode: Bluetooth Mode

#### 30MHz -1GHz



#### Test Data

## Horizontal Polarity Plot @3m

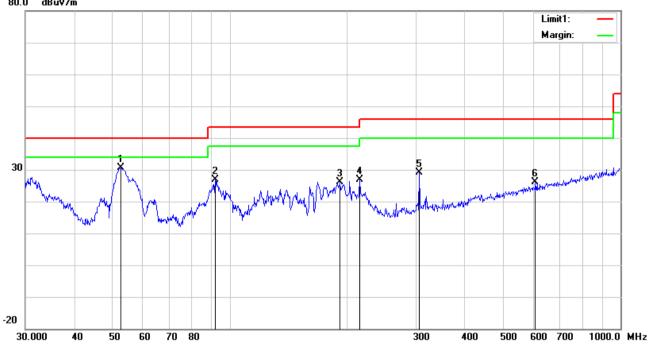
No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
		(MHz)	(dBuV/m)	or	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	ee ( )
		(	(uzuv,)		(42/111)	(42)	(42)	(4547))	(uzuv,)	()	(6)	( )
1	Н	33.3279	24.42	peak	18.84	22.26	0.71	21.71	40.00	-18.29	100	48
2	Η	99.1797	33.88	peak	10.20	22.32	1.10	22.86	43.50	-20.64	100	346
3	Н	189.7385	32.19	peak	11.54	22.31	1.54	22.96	43.50	-20.54	100	97
4	Н	284.9767	29.57	peak	12.94	22.29	1.76	21.98	46.00	-24.02	100	340
5	Н	517.2480	25.12	peak	17.94	21.77	2.44	23.73	46.00	-22.27	100	32
6	Н	912.8620	24.99	peak	22.56	20.86	3.10	29.79	46.00	-16.21	100	325



Test Report	17070659-FCC-R3
Page	47 of 68

#### 30MHz -1GHz





#### Test Data

## Vertical 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)	( <sup>9</sup>
1	٧	52.5753	44.04	peak	8.12	22.39	0.79	30.56	40.00	-9.44	100	219
2	٧	91.8163	39.78	peak	8.44	22.32	0.96	26.86	43.50	-16.64	200	155
3	٧	191.7450	35.26	peak	11.65	22.33	1.54	26.12	43.50	-17.38	100	52
4	٧	215.2678	35.76	peak	11.89	22.35	1.59	26.89	43.50	-16.61	100	155
5	V	305.6800	35.88	peak	13.72	22.27	1.82	29.15	46.00	-16.85	100	57
6	٧	605.6592	25.94	peak	19.16	21.57	2.51	26.04	46.00	-19.96	100	204



Test Report	17070659-FCC-R3
Page	48 of 68

### Above 1GHz

Test Mode:	Transmitting Mode
	A .

#### 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	42.57	AV	V	33.39	7.22	48.46	34.72	54	-19.28
4804	41.06	AV	Н	33.39	7.22	48.46	33.21	54	-20.79
4804	52.87	PK	V	33.39	7.22	48.46	45.02	74	-28.98
4804	50.37	PK	Н	33.39	7.22	48.46	42.52	74	-31.48
4015	34.16	AV	V	31.76	6.6	49.36	23.16	54	-30.84
4015	33.26	AV	Н	31.76	6.6	49.36	22.26	54	-31.74
4015	56.87	PK	V	31.76	6.6	49.36	45.87	74	-28.13
4015	54.26	PK	Н	31.76	6.6	49.36	43.26	74	-30.74

### 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	46.82	AV	V	33.62	7.53	48.36	39.61	54	-14.39
4882	44.71	AV	Н	33.62	7.53	48.36	37.5	54	-16.5
4882	56.3	PK	V	33.62	7.53	48.36	49.09	74	-24.91
4882	53.87	PK	Н	33.62	7.53	48.36	46.66	74	-27.34
8523	28.74	AV	V	37.74	7.89	47.8	26.57	54	-27.43
8523	26.15	AV	Н	37.74	7.89	47.8	23.98	54	-30.02
8523	43.11	PK	V	37.74	7.89	47.8	40.94	74	-33.06
8523	40.27	PK	Н	37.74	7.89	47.8	38.1	74	-35.9



Test Report	17070659-FCC-R3
Page	49 of 68

#### 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	44.67	AV	V	33.89	7.86	48.31	38.11	54	-15.89
4960	41.69	AV	Н	33.89	7.86	48.31	35.13	54	-18.87
4960	57.34	PK	V	33.89	7.86	48.31	50.78	74	-23.22
4960	54.29	PK	Н	33.89	7.86	48.31	47.73	74	-26.27
17893	21.06	AV	V	43.21	19.44	44.4	39.31	54	-14.69
17893	20.11	AV	Н	43.21	19.44	44.4	38.36	54	-15.64
17893	40.28	PK	V	43.21	19.44	44.4	58.53	74	-15.47
17893	38.57	PK	Н	43.21	19.44	44.4	56.82	74	-17.18

#### 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.



Test Report	17070659-FCC-R3
Page	50 of 68

# Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
instrument	Model	Serial #	Cai Date	Cai Due	III use
AC Line Conducted					T
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	~
ISN	ISN T800	34373	09/24/2016	09/23/2017	
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	<b>V</b>
Power Splitter	1#	1#	08/30/2017	08/29/2018	<b>V</b>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	<b>V</b>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<b>&gt;</b>
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	<b>&gt;</b>
OPT 010 AMPLIFIER	04475	0707100100	00/04/0040	00/00/00/7	_
(0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	~
Microwave Preamplifier					_
(1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<b>V</b>
,					
Horn Antenna	BBHA9170	3145226D1	09/28/2016	09/27/2017	~
Active Antenna	AL-130	121031	10/13/2016	10/12/2017	<b>~</b>
(9kHz-30MHz)					
Bilog Antenna	JB6	A110712	09/20/2016	09/19/2017	<b>V</b>
(30MHz~6GHz)	300	A110/12	0312012010	03/13/2017	Į.
Double Ridge Horn					
Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	~
,					
Universal Radio	CMU200	121393	09/24/2016	09/23/2017	<b>V</b>
Communication Tester	CIVIOZOO	12 1000	00/27/2010	00/20/2011	Į.



Test Report	17070659-FCC-R3
Page	51 of 68

# Annex B. EUT And Test Setup Photographs

# Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Lable View





Test Report	17070659-FCC-R3
Page	52 of 68

**EUT - Front View** 



**EUT - Rear View** 





Test Report	17070659-FCC-R3
Page	53 of 68

EUT - Top View



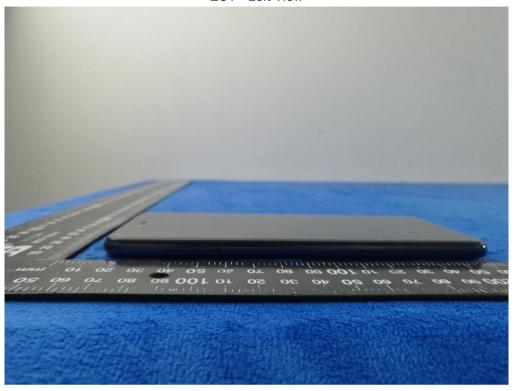
EUT - Bottom View





Test Report	17070659-FCC-R3
Page	54 of 68

EUT - Left View



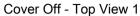
EUT - Right View





Test Report	17070659-FCC-R3
Page	55 of 68

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





Cover Off - Top View 2



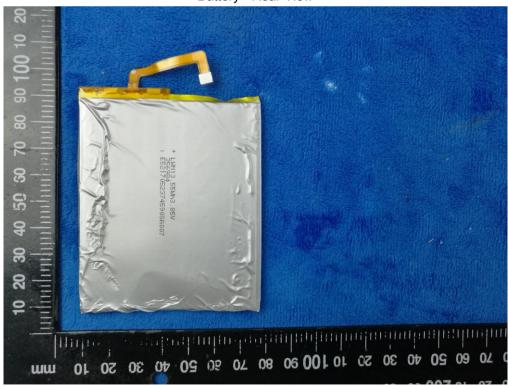


Test Report	17070659-FCC-R3
Page	56 of 68

Battery - Front View



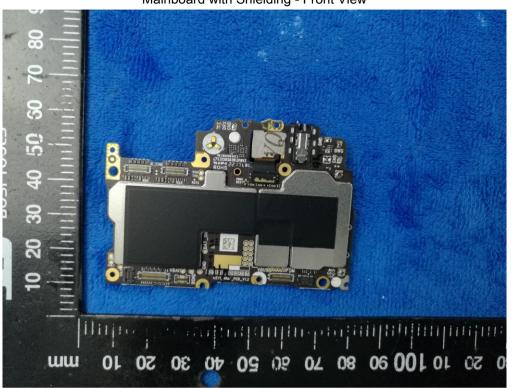
Battery - Rear View



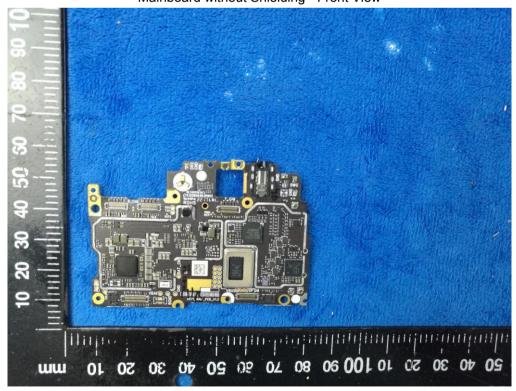


Test Report	17070659-FCC-R3
Page	57 of 68

Mainboard with Shielding - Front View



Mainboard without Shielding - Front View



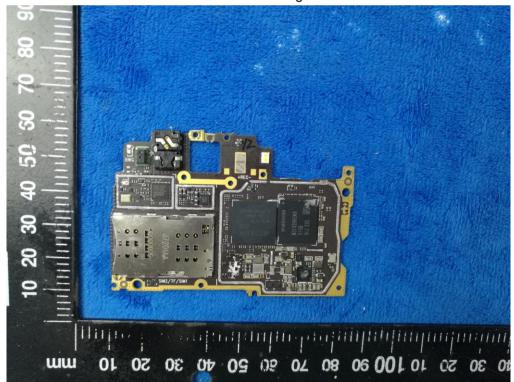


Test Report	17070659-FCC-R3
Page	58 of 68

Mainboard with Shielding- Rear View



Mainboard without Shielding- Rear View



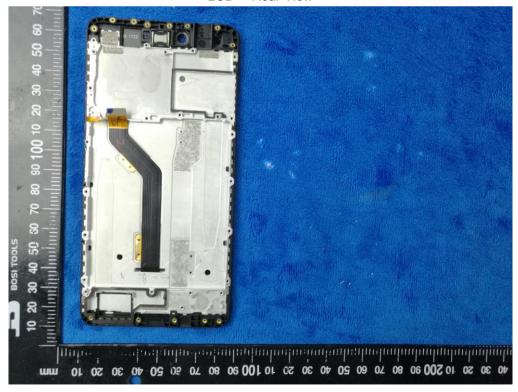


Test Report	17070659-FCC-R3
Page	59 of 68

LCD - Front View



LCD - Rear View





Test Report	17070659-FCC-R3
Page	60 of 68

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



2.4WIFI/5G WIFI/BT/BLE/GPS - Antenna View





Test Report	17070659-FCC-R3
Page	61 of 68

LTE - Antenna View





Test Report	17070659-FCC-R3
Page	62 of 68

## Annex B.iii. Photograph: Test Setup Photo



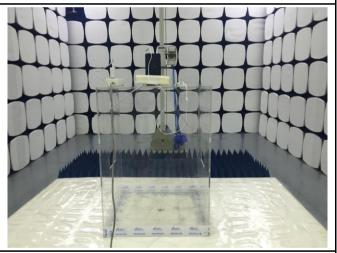
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

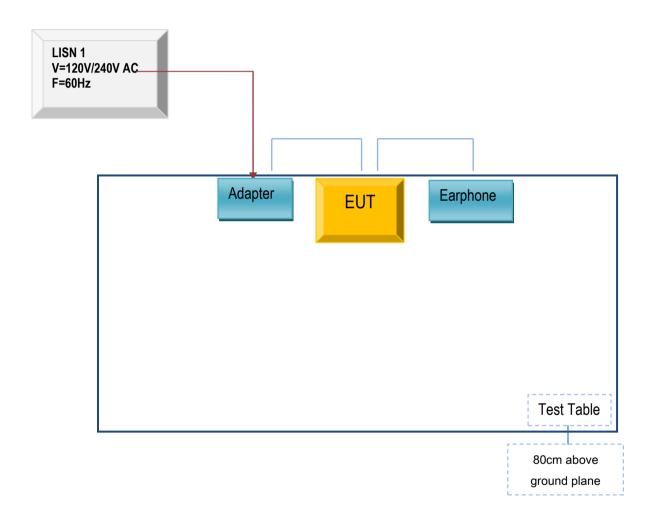


Test Report	17070659-FCC-R3
Page	63 of 68

# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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

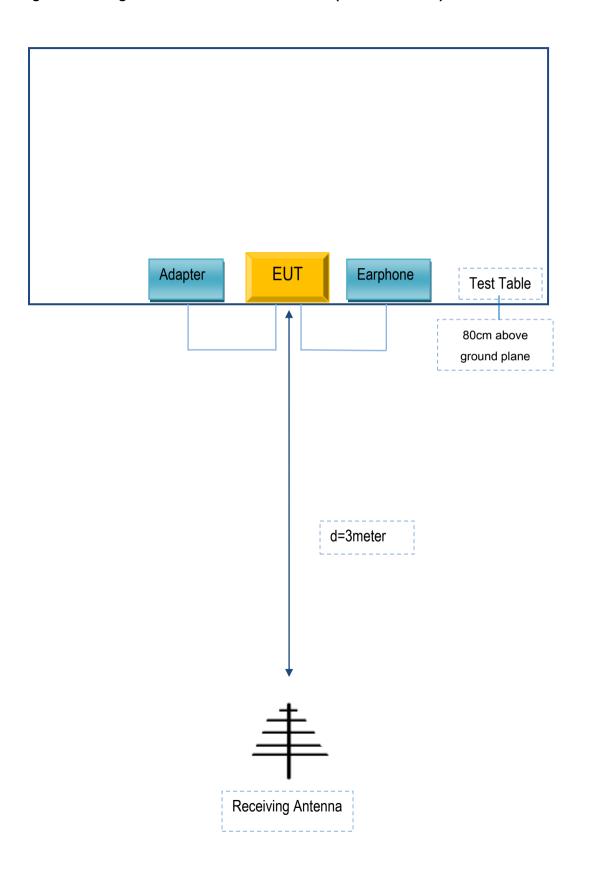
Block Configuration Diagram for AC Line Conducted Emissions





Test Report	17070659-FCC-R3
Page	64 of 68

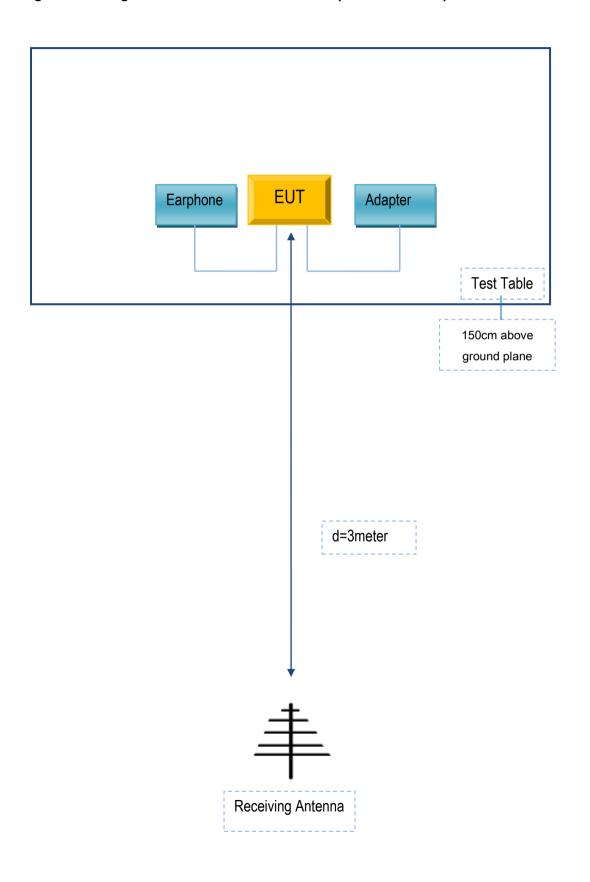
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





Test Report	17070659-FCC-R3
Page	65 of 68

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





Test Report	17070659-FCC-R3
Page	66 of 68

## 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
TECNO MOBILE LIMITED	Adapter	CQ-18KX	N/A
TECNO MOBILE LIMITED	Earphone	AX8	N/A

### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	N/A



Test Report	17070659-FCC-R3
Page	67 of 68

# Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



Test Report	17070659-FCC-R3
Page	68 of 68

# Annex E. DECLARATION OF SIMILARITY

N/A