

RF TEST REPORT



Report No.: 15070892-FCC-R2

Supersede Report No.: N/A

Applicant	SENMAX INC.	
Product Name	LTE Phone	
Model No.	Carbon	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2014, ANSI C63.10: 2013	
Test Date	October 10 to October 31, 2015	
Issue Date	October 31, 2015	
Test Result	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
Winnie. Zhang	David Huang	
Winnie Zhang 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

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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
15070892-FCC-R2	NONE	Original	October 31, 2015

2. Customer information

Applicant Name	SENMAX INC.
Applicant Add	2300 GRAYSON DR # 1611 GRAPEVINE, TX 76051
Manufacturer	SENMAX INC.
Manufacturer Add	2300 GRAYSON DR # 1611 GRAPEVINE, TX 76051

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park 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

4. Equipment under Test (EUT) Information

Description of EUT:	LTE Phone
Main Model:	Carbon
Serial Model:	N/A
Date EUT received:	October 09, 2015
Test Date(s):	October 10 to October 31, 2015
Equipment Category :	DSS
Antenna Gain:	GSM850: -7.22 dBi PCS1900: -2.93 dBi UMTS-FDD Band V: -7.22 dBi UMTS-FDD Band IV: -2.55 dBi UMTS-FDD Band II:-2.93 dBi Bluetooth/BLE:-2.94 dBi WIFI:-2.94 dBi LTE Band 2: -3.96 dBi LTE Band 4: -2.33 dBi LTE Band 7: -2.54 dBi LTE Band 17: -8.25 dBi GPS:-3.56 dBi
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK, 8PSK UMTS-FDD: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK LTE Band: QPSK, 16QAM GPS:BPSK
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

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UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;
 UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;
 RX: 1932.4 ~ 1987.6 MHz
 WIFI:802.11b/g/n(20M): 2412-2462 MHz
 WIFI:802.11n(40M): 2422-2452 MHz
 Bluetooth& BLE: 2402-2480 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 7 TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz
 LTE Band 17 TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 MHz
 GPS RX:1575.42 MHz

Max. Output Power: -0.377dBm

GSM 850: 124CH
 PCS1900: 299CH
 UMTS-FDD Band V : 102CH
 UMTS-FDD Band IV: 202CH
 UMTS-FDD Band II : 277CH
 WIFI :802.11b/g/n(20M): 11CH
 WIFI :802.11n(40M): 7CH
 Bluetooth: 79CH
 BLE: 40CH
 GPS:1CH

Battery:
 Spec:3.8V,2850mAh

Input Power:
 Adapter:
 Model:TPA-955100UU
 Input: 100-240V; 50/60Hz; 150mA
 Output: DC 5.0V,1000mA

Port: Power Port, Earphone Port, USB Port

Trade Name : 

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

FCC ID: 2AF99CARBON

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	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions	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
-	-	-

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 4 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is -2.94dBi.

A permanently attached PIFA antenna for GSM and UMTS, the gain is -7.22dBi for GSM850, -2.93dBi for PCS1900, -7.22dBi for UMTS-FDD Band V, -2.55dBi for UMTS-FDD Band IV, -2.93dBi for UMTS-FDD Band II.

A permanently attached PIFA antenna for LTE, the gain is -3.96dBi LTE Band 2, the gain is -2.33dBi LTE Band 4, the gain is -2.54dBi LTE Band 7, the gain is -8.25dBi LTE Band 17.

A permanently attached PIFA antenna for GPS, the gain is -3.56dBi for GPS,

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 Channel Separation

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1015mbar
Test date :	October 15, 2015
Tested By :	Winnie Zhang

Requirement(s):

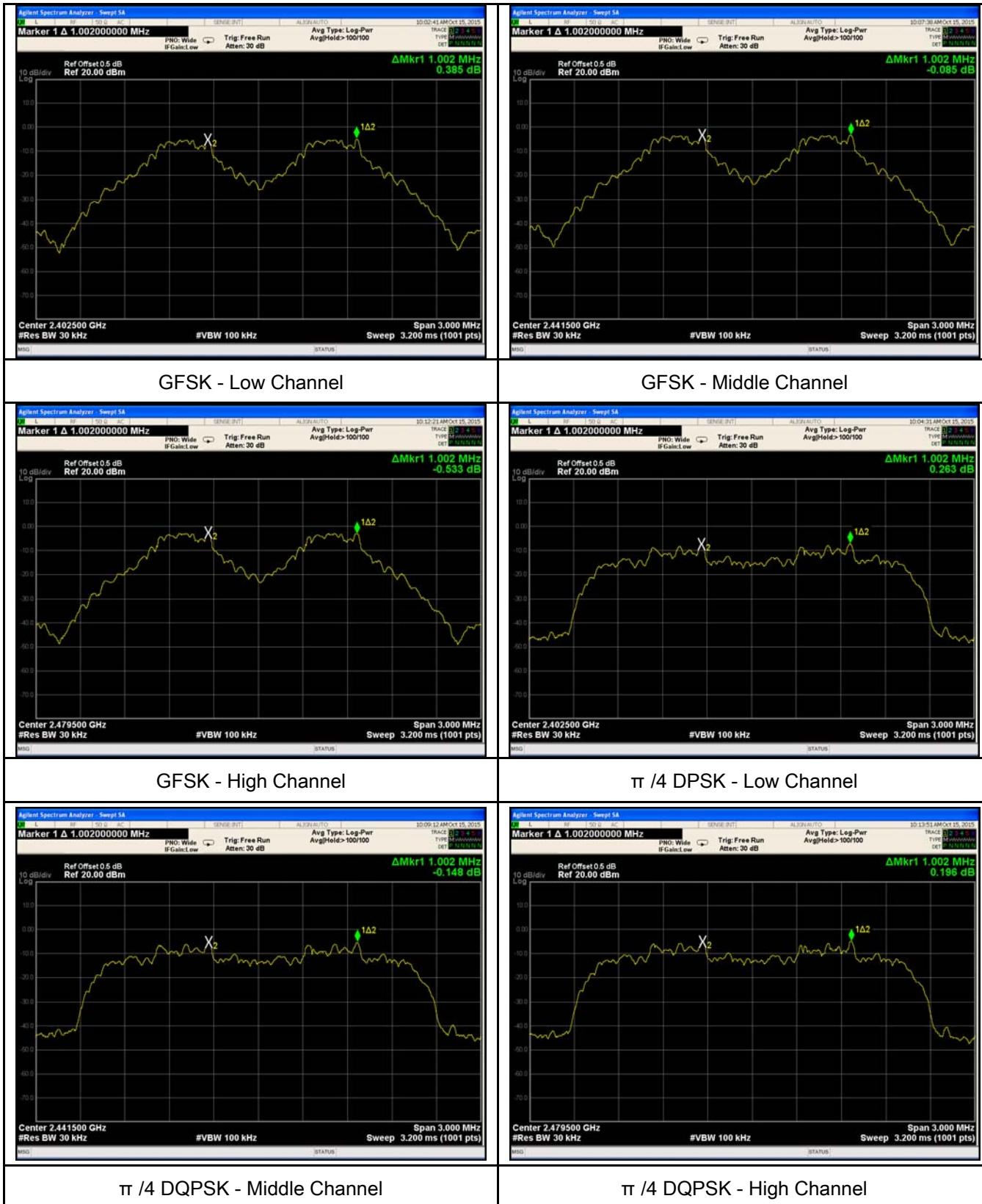
Remark		
Result	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Test Data	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> N/A
Test Plot	<input checked="" type="checkbox"/> Yes (See below)	<input type="checkbox"/> N/A

Channel Separation measurement result

Type/ Modulation	CH	CH Freq (MHz)	CH Separation (MHz)	Limit (MHz)	Result
CH Separation GFSK	Low Channel	2402	1.002	0.964	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.963	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.965	Pass
	Adjacency Channel	2479			
CH Separation $\pi/4$ DQPSK	Low Channel	2402	1.002	0.857	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.858	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.856	Pass
	Adjacency Channel	2479			
CH Separation 8DPSK	Low Channel	2402	1.002	0.860	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.861	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.005	0.859	Pass
	Adjacency Channel	2479			

Test Plots

Channel Separation measurement result





8DPSK - Low Channel

8DPSK - Middle Channel

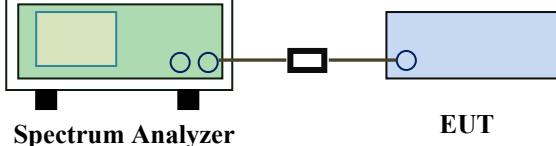


8DPSK - High Channel

6.3 20dB Bandwidth

Temperature	22°C
Relative Humidity	51%
Atmospheric Pressure	1009mbar
Test date :	October 09, 2015
Tested By :	Winnie Zhang

Requirement(s):

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.	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</p> <p><u>Use the following spectrum analyzer settings:</u></p> <ul style="list-style-type: none"> - Span = approximately 2 to 3 times the 20 dB bandwidth, centered on 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. 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 different modes of 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 Section. Submit this plot(s).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

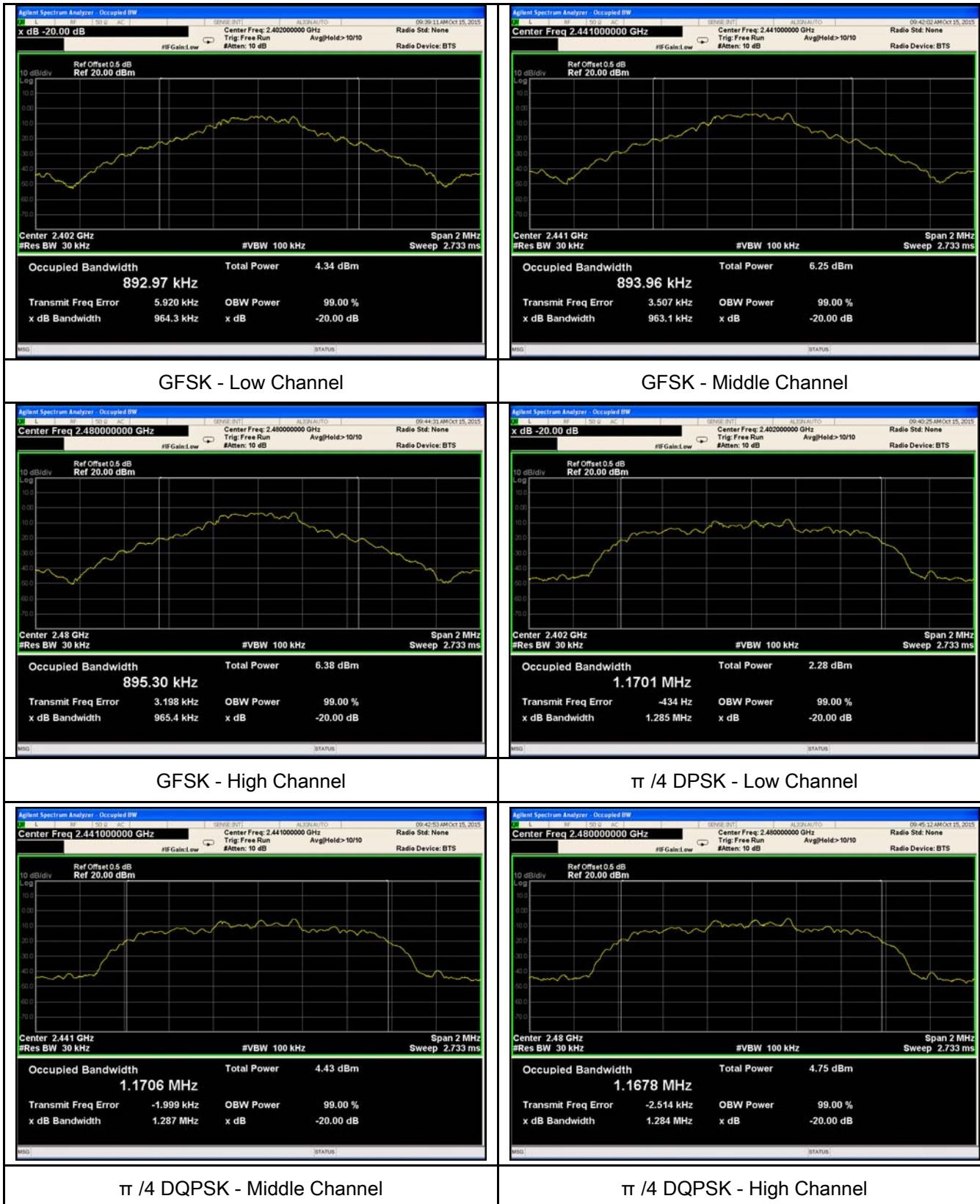
Test Plot Yes (See below) N/A

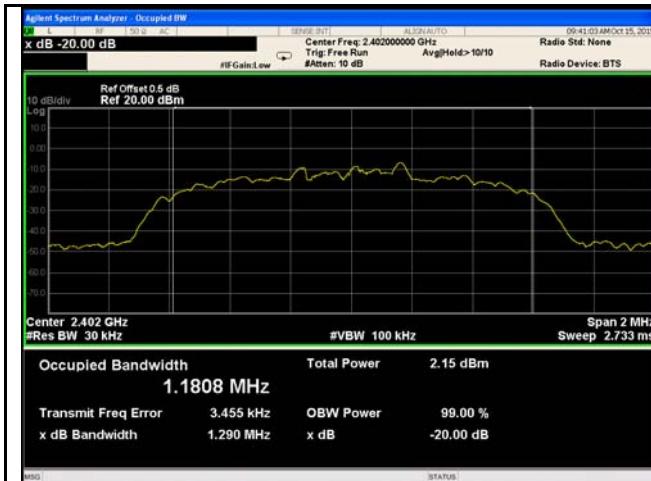
Measurement result

Modulation	CH	CH Freq (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
GFSK	Low	2402	0.9643	0.8930
	Mid	2441	0.9631	0.8940
	High	2480	0.9654	0.8953
$\pi/4$ DQPSK	Low	2402	1.285	1.1701
	Mid	2441	1.287	1.1706
	High	2480	1.284	1.1678
8-DPSK	Low	2402	1.290	1.1808
	Mid	2441	1.291	1.1793
	High	2480	1.288	1.1778

Test Plots

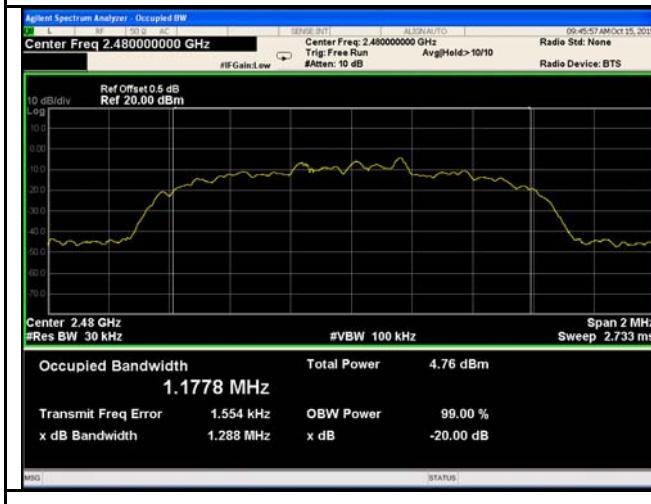
20dB Bandwidth measurement result





8DPSK - Low Channel

8DPSK - Middle Channel

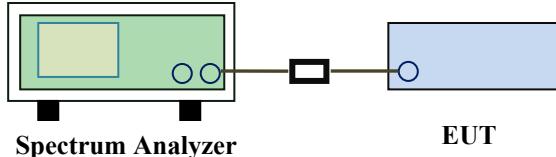


8DPSK - High Channel

6.4 Peak Output Power

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1015mbar
Test date :	October 15, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (2)	a)	FHSS in 2400-2483.5MHz with \geq 75 channels: \leq 1 Watt	<input checked="" type="checkbox"/>
	b)	FHSS in 5725-5850MHz: \leq 1 Watt	<input type="checkbox"/>
	c)	For all other FHSS in the 2400-2483.5MHz band: \leq 0.125 Watt.	<input checked="" type="checkbox"/>
	d)	FHSS in 902-928MHz with \geq 50 channels: \leq 1 Watt	<input type="checkbox"/>
	e)	FHSS in 902-928MHz with \geq 25 & $<$ 50 channels: \leq 0.25 Watt	<input type="checkbox"/>
	f)	DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz: \leq 1 Watt	<input type="checkbox"/>
Test Setup		 Spectrum Analyzer EUT	
Test Procedure		<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</p> <p><u>Use the following spectrum analyzer settings:</u></p> <ul style="list-style-type: none"> - Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel - RBW > the 20 dB bandwidth of the emission being measured - VBW \geq RBW - Sweep = auto - Detector function = peak - Trace = max hold 	

	<ul style="list-style-type: none"> - 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 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	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Peak Output Power measurement result

Type	Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power	GFSK	Low	2402	-3.177	1000	Pass
		Mid	2441	-0.882	1000	Pass
		High	2480	-0.377	1000	Pass
	$\pi/4$ DQPSK	Low	2402	-3.782	125	Pass
		Mid	2441	-1.690	125	Pass
		High	2480	-1.091	125	Pass
	8-DPSK	Low	2402	-3.831	125	Pass
		Mid	2441	-1.524	125	Pass
		High	2480	-0.923	125	Pass

Test Plots

Output Power measurement result



GFSK Output power - Low CH 2402



GFSK Output power - Mid CH 2441



GFSK Output power - High CH 2480



$\pi/4$ DQPSK Output power - Low CH 2402



$\pi/4$ DQPSK Output power - Mid CH 2441

$\pi/4$ DQPSK Output power - High CH 2480



8DPSK Output power - Low CH 2402



8DPSK Output power - Mid CH 2441

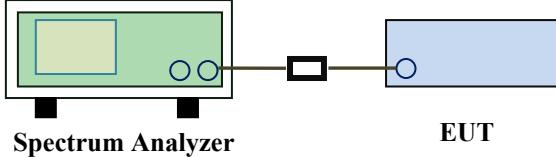


8DPSK Output power - High CH 2480

6.5 Number of Hopping Channel

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1015mbar
Test date :	October 15, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	FHSS in 2400-2483.5MHz \geq 15 channels	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</p> <p><u>Use the following spectrum analyzer settings:</u></p> <p>The EUT must have its hopping function enabled.</p> <ul style="list-style-type: none"> - Span = the frequency band of operation - RBW \geq 1% of the span - VBW \geq RBW - Sweep = auto - 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	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A

Test Plot Yes (See below) N/A

Number of Hopping Channel measurement result

Type	Modulation	Frequency Range	Number of Hopping Channel	Limit
Number of Hopping Channel	GFSK	2400-2483.5	79	15
	$\pi/4$ DQPSK	2400-2483.5	79	15
	8-DPSK	2400-2483.5	79	15

Test Plots

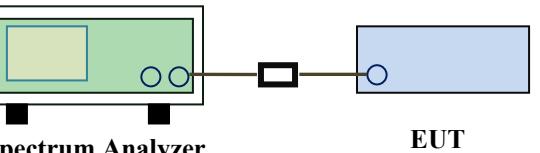
Number of Hopping Channels measurement result



6.6 Time of Occupancy (Dwell Time)

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1015mbar
Test date :	October 15, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	Dwell Time < 0.4s	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Spectrum Analyzer EUT</p>		
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</p> <p><u>Use the following spectrum analyzer</u></p> <ul style="list-style-type: none"> - Span = zero span, centered on a hopping channel - RBW = 1 MHz - VBW \geq 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	<input checked="" type="checkbox"/> Pass		<input type="checkbox"/> Fail

Test Data Yes N/A

Yes (See below) N/A

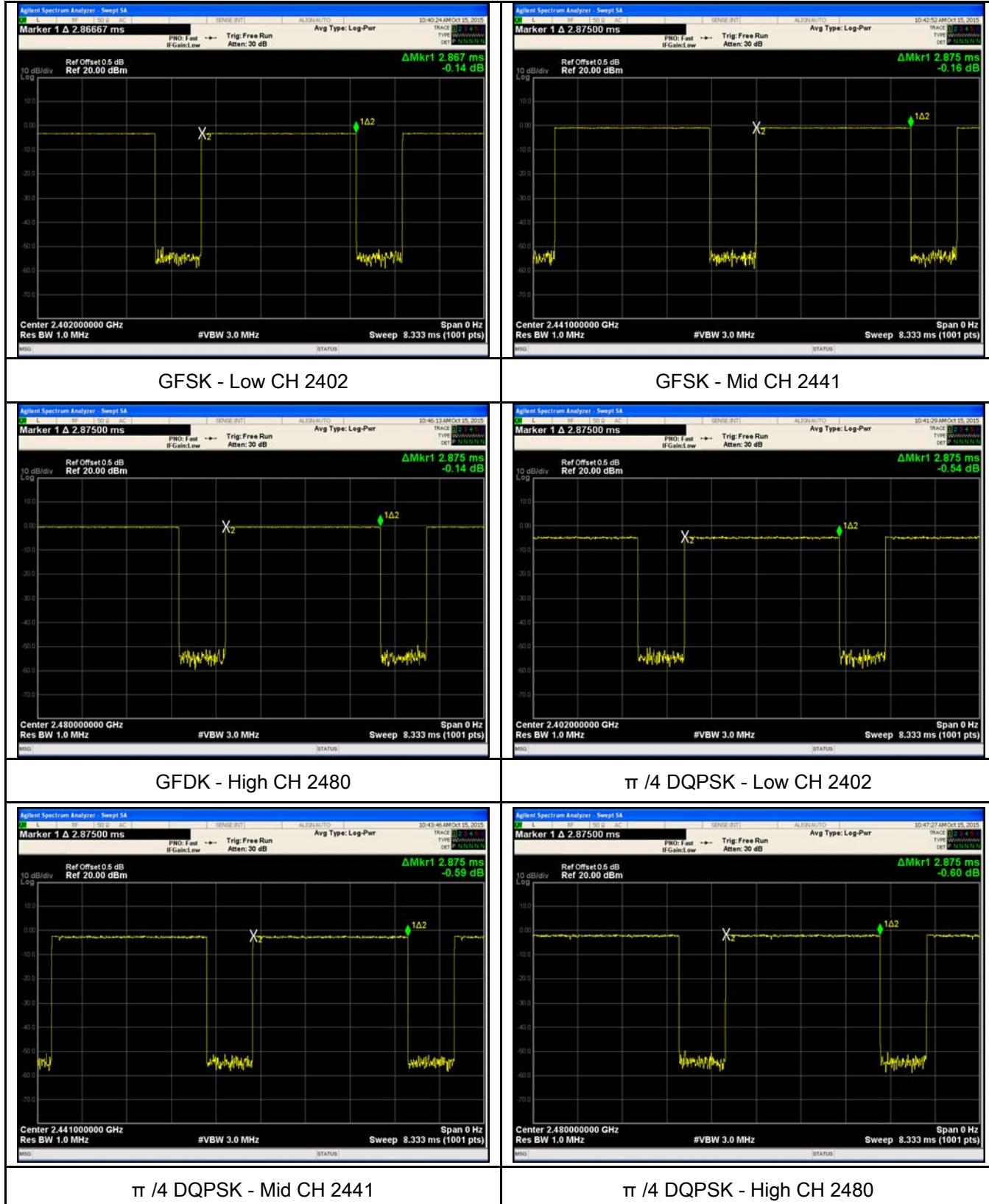
Dwell Time measurement result

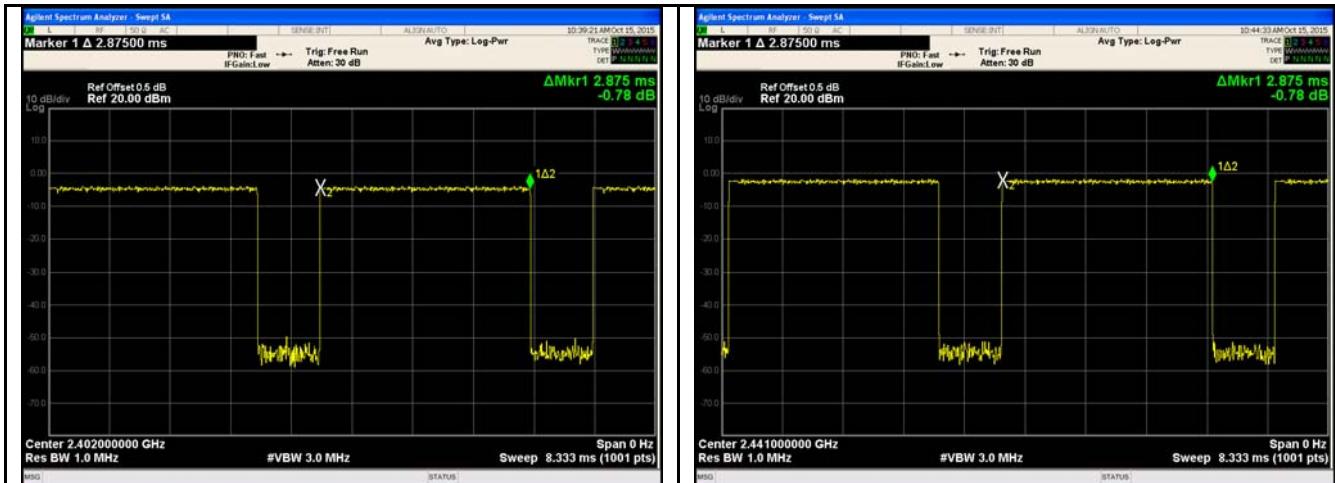
Type	Modulation	CH	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
Dwell Time	GFSK	Low	2.867	305.813	400	Pass
		Mid	2.875	306.667	400	Pass
		High	2.875	306.667	400	Pass
	$\pi/4$ DQPSK	Low	2.875	306.667	400	Pass
		Mid	2.875	306.667	400	Pass
		High	2.875	306.667	400	Pass
	8-DPSK	Low	2.875	306.667	400	Pass
		Mid	2.875	306.667	400	Pass
		High	2.875	306.667	400	Pass

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

Test Plots

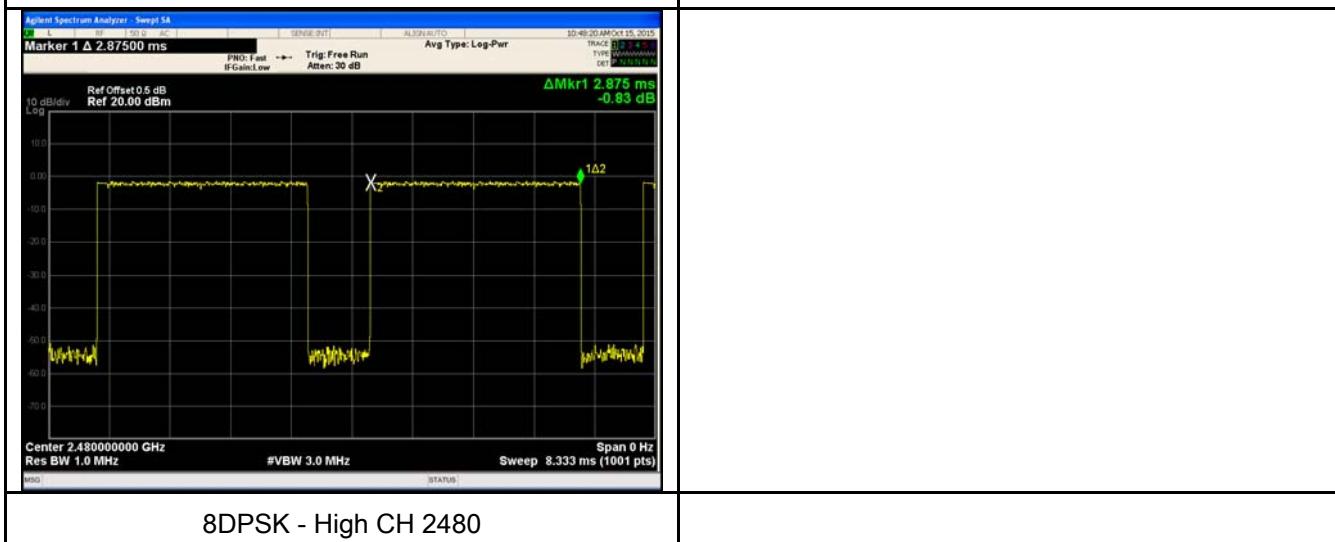
Dwell Time measurement result





8DPSK - Low CH 2402

8DPSK - Mid CH 2441

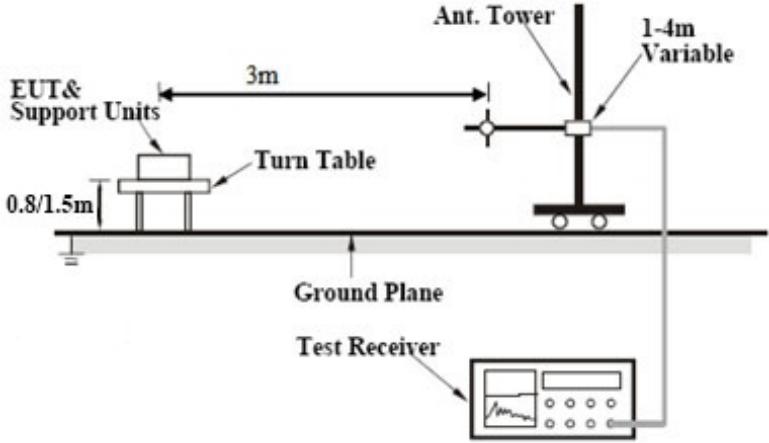


8DPSK - High CH 2480

6.7 Band Edge

Temperature	23°C
Relative Humidity	54%
Atmospheric Pressure	1030mbar
Test date :	October 30, 2015
Tested By :	Winnie Zhang

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.	<input checked="" type="checkbox"/>
Test Setup	 <p>The diagram illustrates the test setup. An 'EUT & Support Units' is positioned on a 'Turn Table' at a height of '0.8/1.5m' above a 'Ground Plane'. A 'Test Receiver' is connected to the EUT. A '1-4m Variable' antenna tower is mounted on the turn table, with a horizontal distance of '3m' indicated between the EUT and the tower. The tower is connected to the 'Ground Plane'.</p>		
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Radiated Method Only</p> <ul style="list-style-type: none"> - 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, 		

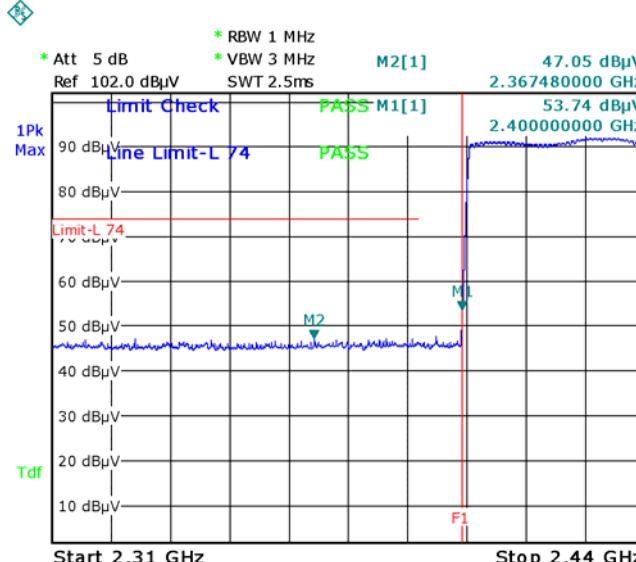
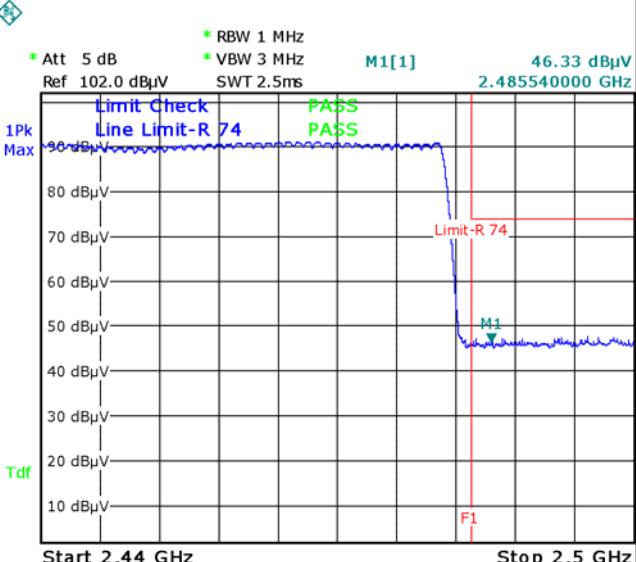
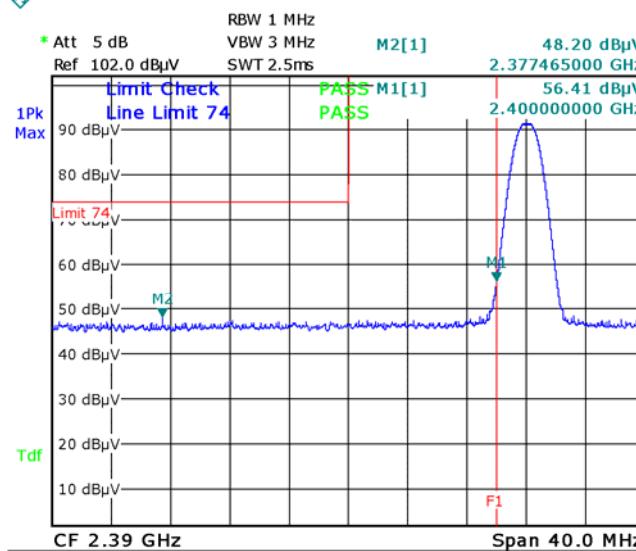
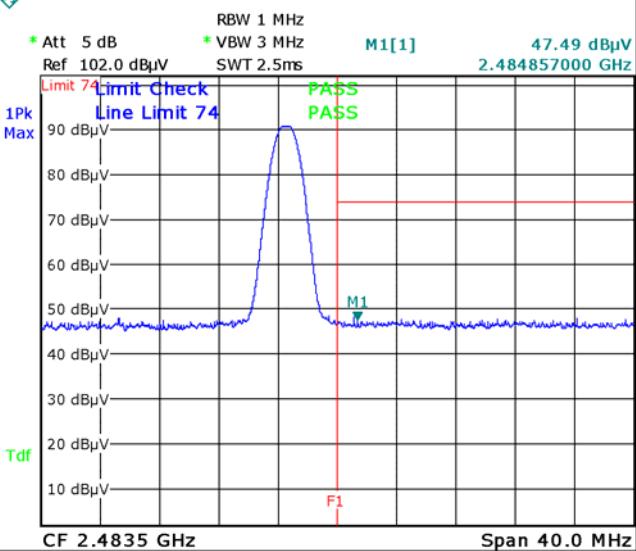
	<p>and make sure the instrument is operated in its linear range.</p> <ul style="list-style-type: none"> - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below: <ul style="list-style-type: none"> a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz. - 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency. - 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

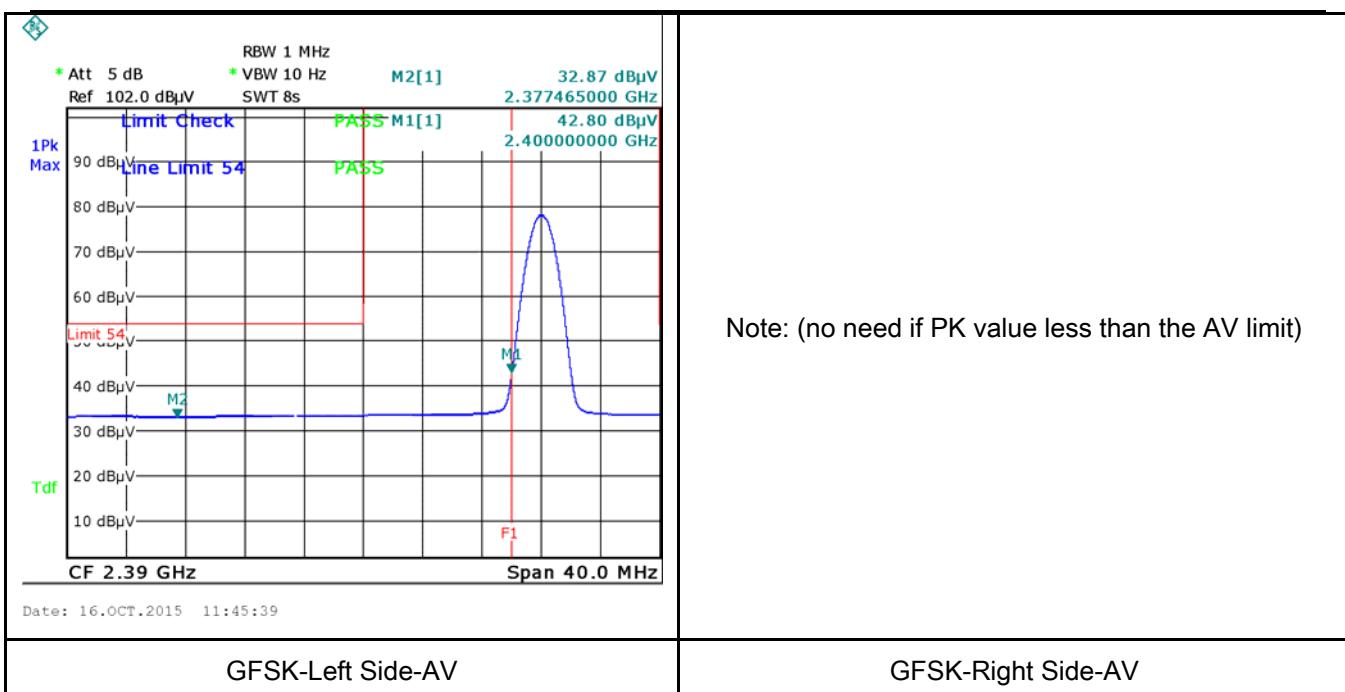
Test Data Yes N/A

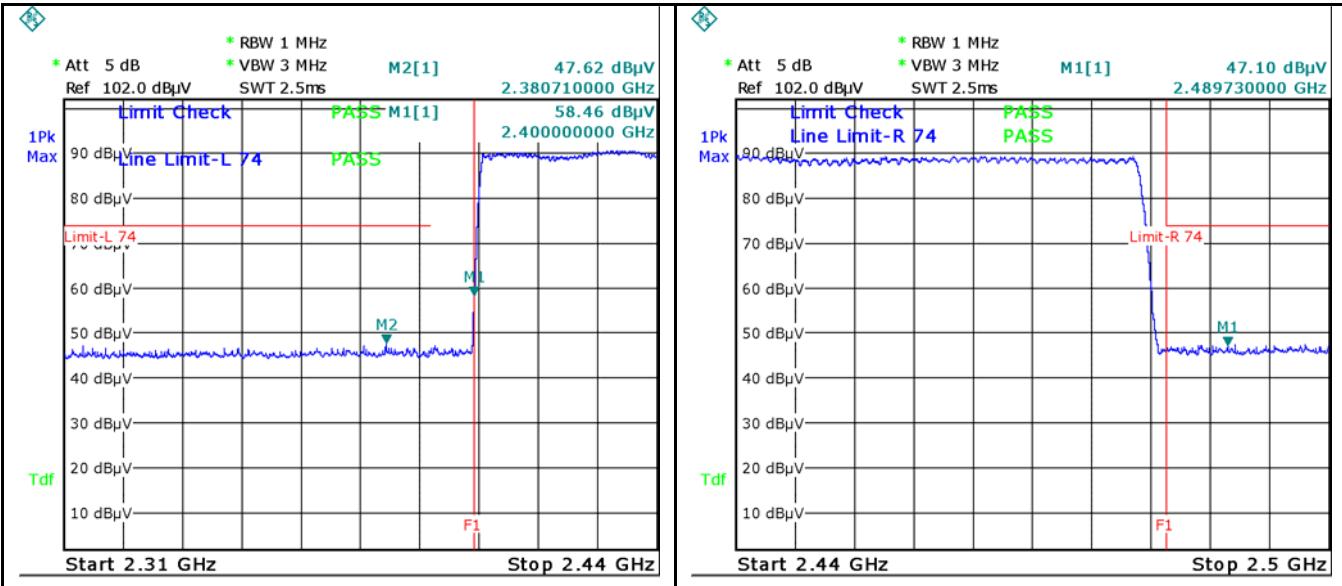
Test Plot Yes (See below) N/A

Test Plots

GFSK Mode:

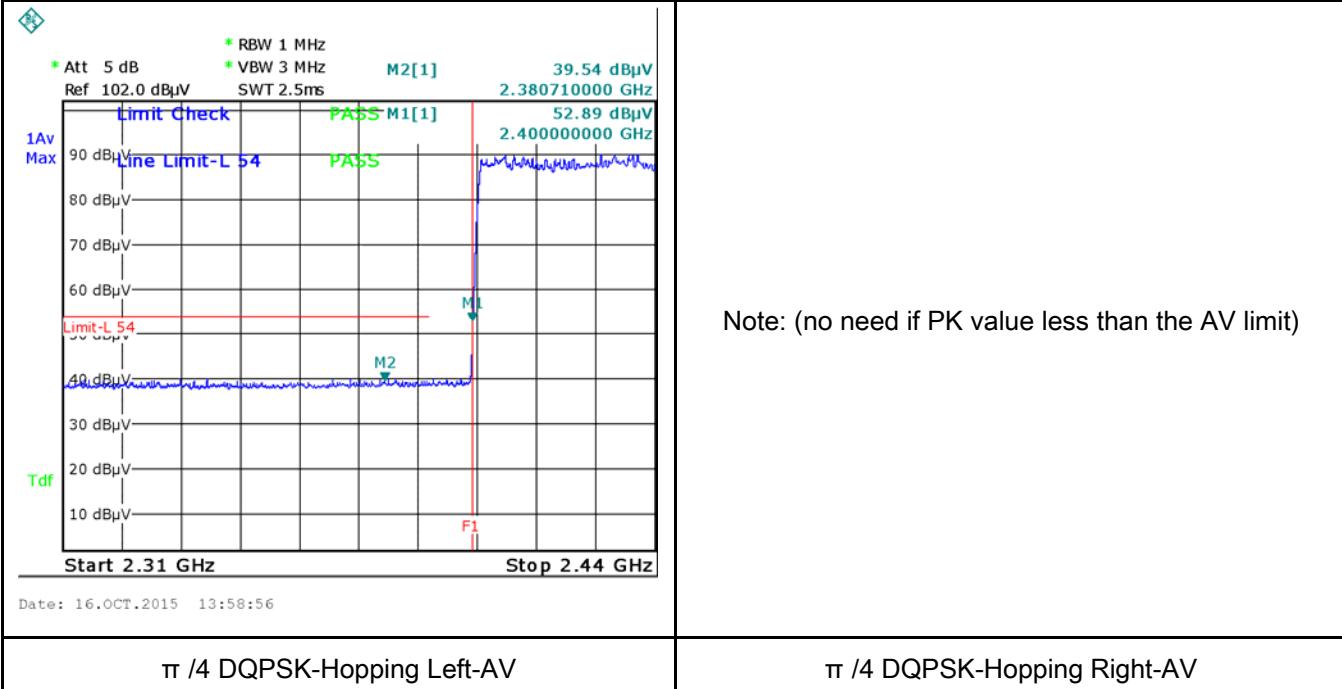
 <p>* Att 5 dB * RBW 1 MHz Ref 102.0 dBμV * VBW 3 MHz SWT 2.5ms</p> <p>M2[1] 47.05 dBμV 2.367480000 GHz</p> <p>53.74 dBμV 2.400000000 GHz</p> <p>1Pk Max 90 dBμV Line Limit-L 74</p> <p>Tdf 10 20 30 40 50 60 80 90 dBμV</p> <p>Start 2.31 GHz Stop 2.44 GHz</p> <p>Date: 16.OCT.2015 13:52:30</p>	 <p>* Att 5 dB * RBW 1 MHz Ref 102.0 dBμV * VBW 3 MHz SWT 2.5ms</p> <p>M1[1] 46.33 dBμV 2.485540000 GHz</p> <p>53.74 dBμV 2.483500000 GHz</p> <p>1Pk Max 90 dBμV Line Limit-R 74</p> <p>Tdf 10 20 30 40 50 60 70 80 90 dBμV</p> <p>Start 2.44 GHz Stop 2.5 GHz</p> <p>Date: 16.OCT.2015 13:53:58</p>
<p style="text-align: center;">GFSK-Hopping Left Side-PK</p> <p style="text-align: center;">Note: F1 is frequency 2400MHz</p>	<p style="text-align: center;">GFSK-Hopping Right Side-PK</p> <p style="text-align: center;">Note: F1 is frequency 2483.5MHz</p>
<p>Note: (no need if PK value less than the AV limit)</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p style="text-align: center;">GFSK-Hopping Left Side-AV</p>	<p style="text-align: center;">GFSK-Hopping Right Side-AV</p>
 <p>* Att 5 dB * RBW 1 MHz Ref 102.0 dBμV * VBW 3 MHz SWT 2.5ms</p> <p>M2[1] 48.20 dBμV 2.377465000 GHz</p> <p>56.41 dBμV 2.400000000 GHz</p> <p>1Pk Max 90 dBμV Line Limit 74</p> <p>Tdf 10 20 30 40 50 60 80 90 dBμV</p> <p>CF 2.39 GHz Span 40.0 MHz</p> <p>Date: 16.OCT.2015 11:45:06</p>	 <p>* Att 5 dB * RBW 1 MHz Ref 102.0 dBμV * VBW 3 MHz SWT 2.5ms</p> <p>M1[1] 47.49 dBμV 2.484857000 GHz</p> <p>56.41 dBμV 2.483500000 GHz</p> <p>1Pk Max 90 dBμV Line Limit 74</p> <p>Tdf 10 20 30 40 50 60 70 80 90 dBμV</p> <p>CF 2.4835 GHz Span 40.0 MHz</p> <p>Date: 16.OCT.2015 12:01:55</p>
<p style="text-align: center;">GFSK-Left Side-PK</p> <p style="text-align: center;">Note: F1 is frequency 2400MHz</p>	<p style="text-align: center;">GFSK-Right Side-PK</p> <p style="text-align: center;">Note: F1 is frequency 2483.5MHz</p>



π /4 DQPSK Mode:


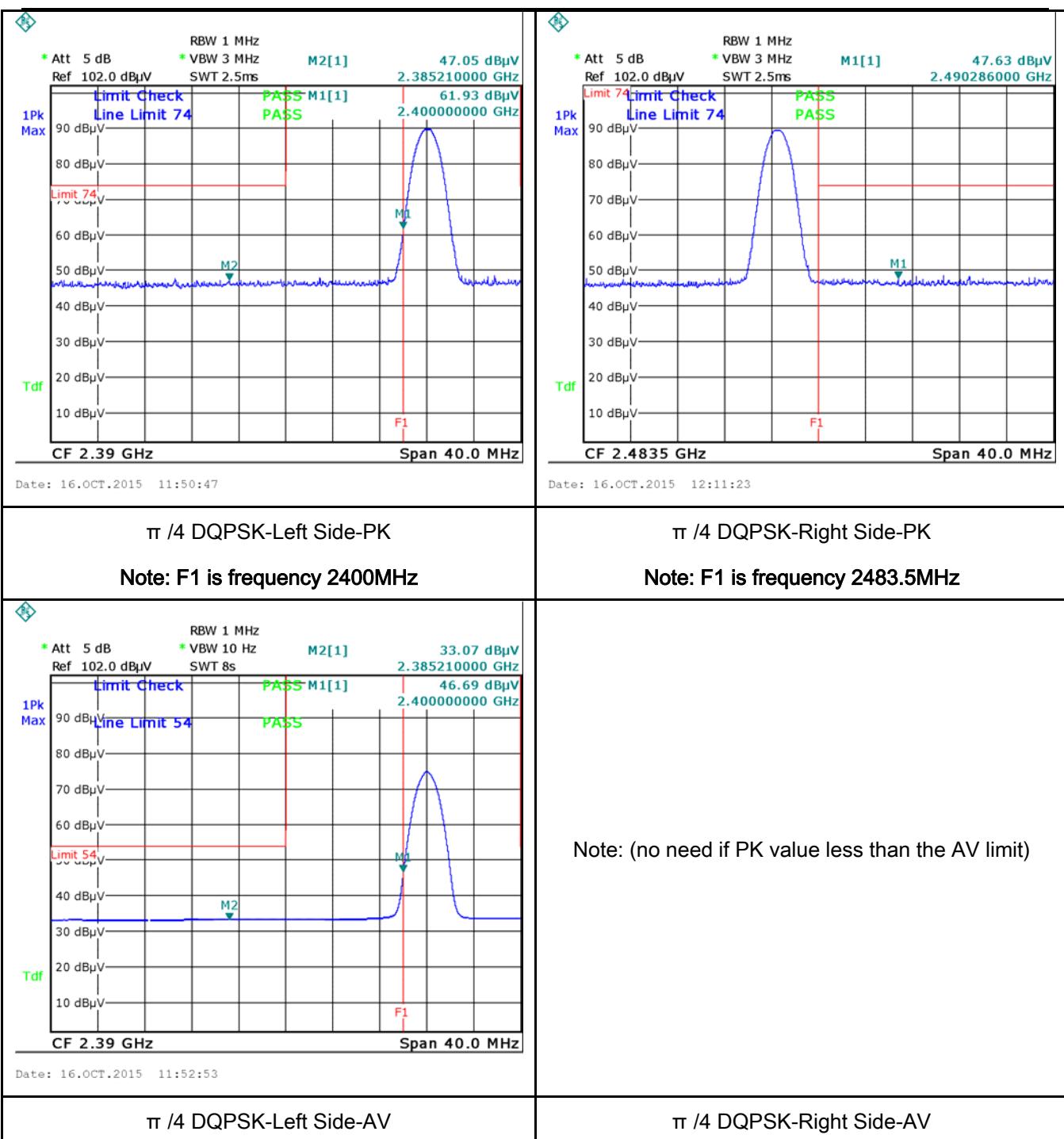
Date: 16.OCT.2015 13:58:21

Date: 16.OCT.2015 13:57:16

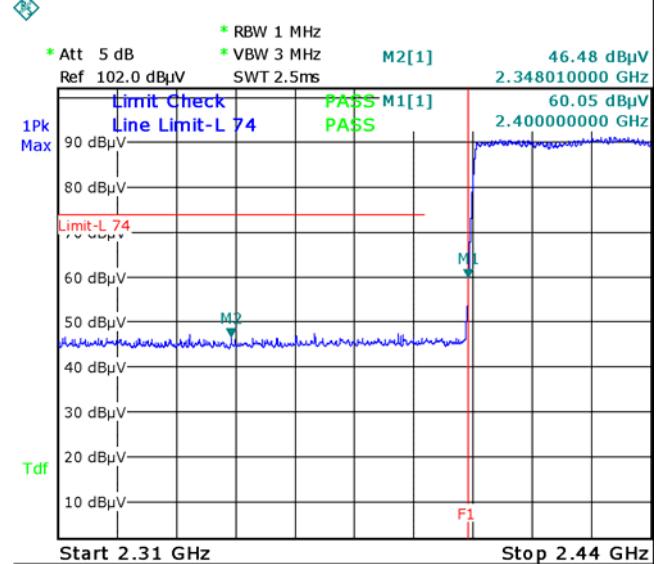
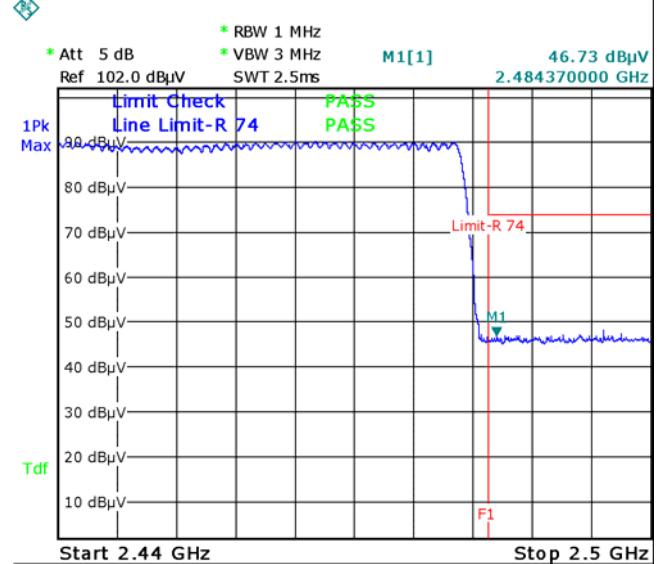
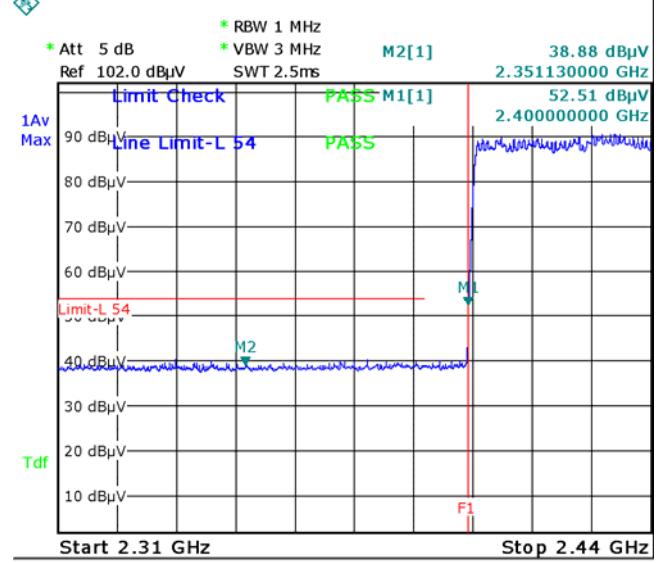
π /4 DQPSK-Hopping Left Side-PK
Note: F1 is frequency 2400MHz
π /4 DQPSK-Hopping Right Side-PK
Note: F1 is frequency 2483.5MHz


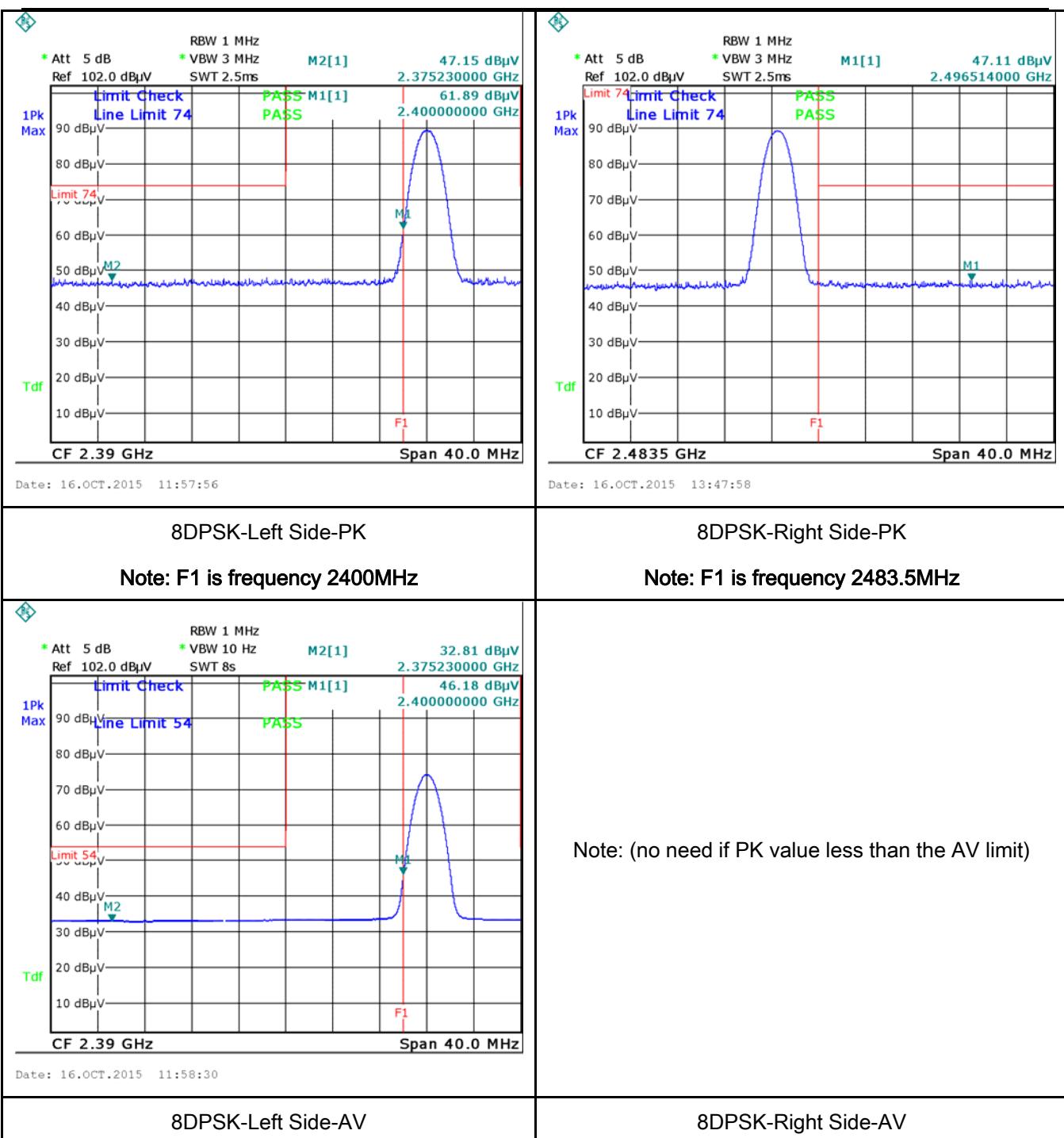
Date: 16.OCT.2015 13:58:56

π /4 DQPSK-Hopping Left-AV
π /4 DQPSK-Hopping Right-AV



8-DPSK Mode:

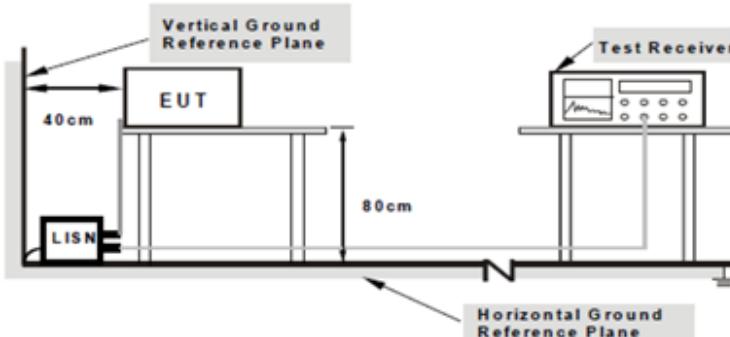
 <p>RBW 1 MHz VBW 3 MHz Att 5 dB Ref 102.0 dBμV SWT 2.5ms</p> <p>M2[1] 46.48 dBμV 2.348010000 GHz</p> <p>1Pk Max</p> <p>Limit Check: Line Limit-L 74, PASS, M1[1] PASS</p> <p>60.05 dBμV 2.400000000 GHz</p> <p>90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV</p> <p>Tdf</p> <p>Start 2.31 GHz Stop 2.44 GHz</p> <p>Date: 16.OCT.2015 14:01:52</p>	 <p>RBW 1 MHz VBW 3 MHz Att 5 dB Ref 102.0 dBμV SWT 2.5ms</p> <p>M1[1] 46.73 dBμV 2.484370000 GHz</p> <p>1Pk Max</p> <p>Limit Check: Line Limit-R 74, PASS, M1[1] PASS</p> <p>60.05 dBμV 2.400000000 GHz</p> <p>90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV</p> <p>Tdf</p> <p>Start 2.44 GHz Stop 2.5 GHz</p> <p>Date: 16.OCT.2015 14:03:41</p>
<p>8DPSK-Hopping Left Side-PK</p> <p>Note: F1 is frequency 2400MHz</p>	<p>8DPSK-Hopping Right Side-PK</p> <p>Note: F1 is frequency 2483.5MHz</p>
 <p>RBW 1 MHz VBW 3 MHz Att 5 dB Ref 102.0 dBμV SWT 2.5ms</p> <p>M2[1] 38.88 dBμV 2.351130000 GHz</p> <p>1Av Max</p> <p>Limit Check: Line Limit-L 54, PASS, M1[1] PASS</p> <p>52.51 dBμV 2.400000000 GHz</p> <p>90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV</p> <p>Tdf</p> <p>Start 2.31 GHz Stop 2.44 GHz</p> <p>Date: 16.OCT.2015 14:02:21</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p>8DPSK-Hopping Left-AV</p>	<p>8DPSK-Hopping Right-AV</p>



6.8 AC Power Line Conducted Emissions

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	October 23, 2015
Tested By :	Winnie Zhang

Requirement(s):

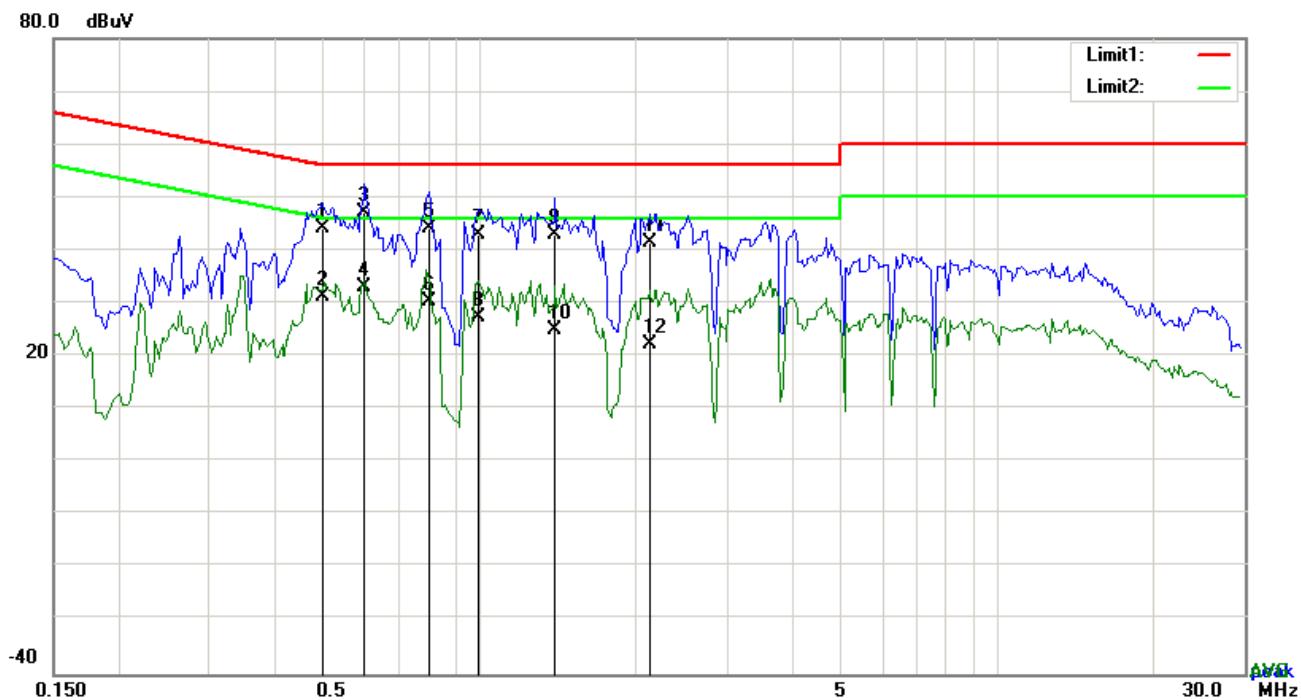
Spec	Item	Requirement	Applicable														
47CFR§15.207, RSS210 (A8.1)	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within 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.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency ranges (MHz)	Limit (dB μ V)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	<input checked="" type="checkbox"/>
Frequency ranges (MHz)	Limit (dB μ V)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															
Test Setup	 <p>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.</p>																
Procedure	<ol style="list-style-type: none"> The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 																

	coaxial cable. 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

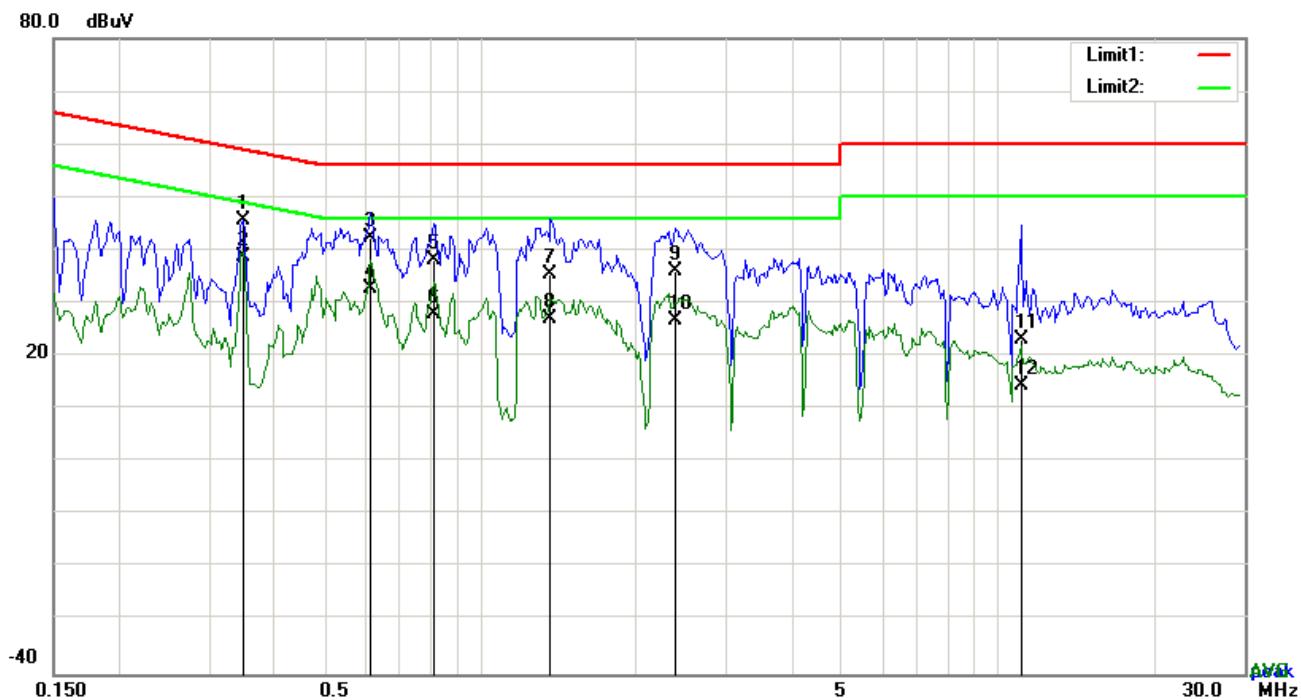
Test Mode: Bluetooth Mode



Test Data

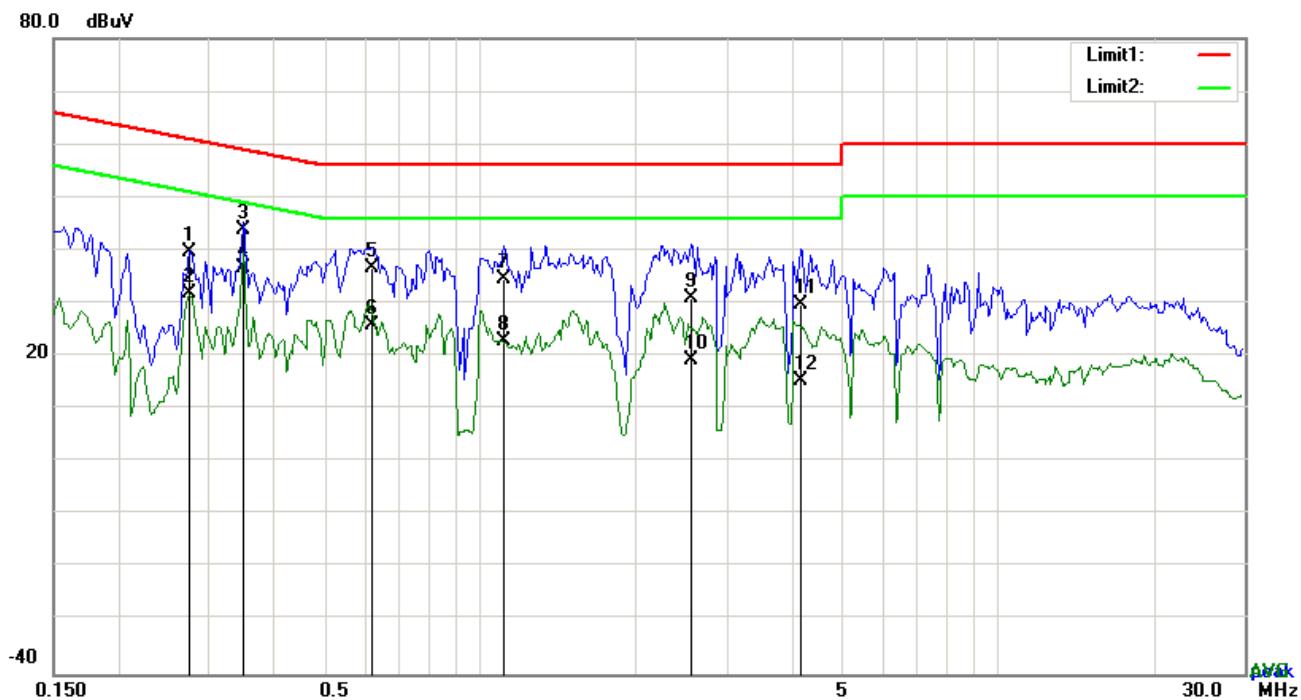
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.4971	34.13	QP	10.03	44.16	56.05	-11.89
2	L1	0.4971	21.17	AVG	10.03	31.20	46.05	-14.85
3	L1	0.5985	37.10	QP	10.03	47.13	56.00	-8.87
4	L1	0.5985	22.95	AVG	10.03	32.98	46.00	-13.02
5	L1	0.7974	34.10	QP	10.03	44.13	56.00	-11.87
6	L1	0.7974	20.22	AVG	10.03	30.25	46.00	-15.75
7	L1	0.9924	32.92	QP	10.03	42.95	56.00	-13.05
8	L1	0.9924	17.27	AVG	10.03	27.30	46.00	-18.70
9	L1	1.3980	32.94	QP	10.03	42.97	56.00	-13.03
10	L1	1.3980	14.80	AVG	10.03	24.83	46.00	-21.17
11	L1	2.1234	31.48	QP	10.04	41.52	56.00	-14.48
12	L1	2.1234	12.19	AVG	10.04	22.23	46.00	-23.77

Test Mode: Bluetooth Mode

Test Data
Phase Neutral Plot at 120Vac, 60Hz

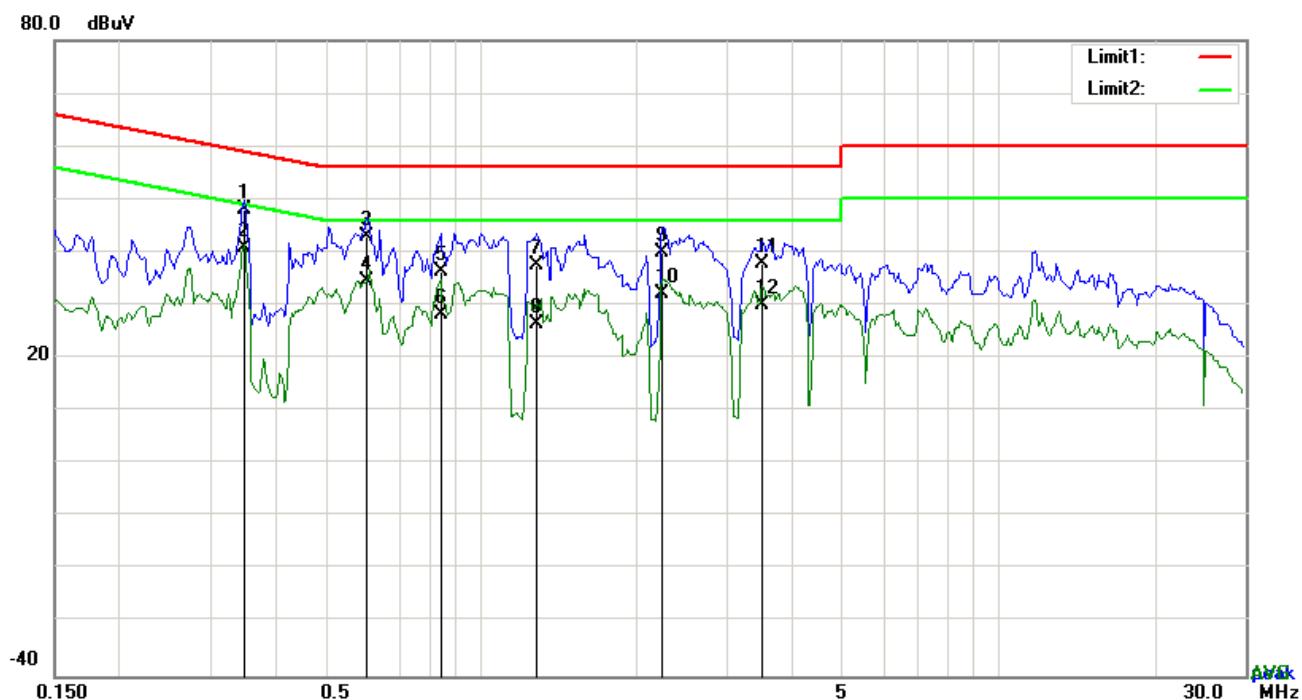
No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.3489	35.60	QP	10.02	45.62	58.99	-13.37
2	N	0.3489	28.72	AVG	10.02	38.74	48.99	-10.25
3	N	0.6141	32.45	QP	10.02	42.47	56.00	-13.53
4	N	0.6141	22.61	AVG	10.02	32.63	46.00	-13.37
5	N	0.8169	28.04	QP	10.03	38.07	56.00	-17.93
6	N	0.8169	17.90	AVG	10.03	27.93	46.00	-18.07
7	N	1.3707	25.39	QP	10.03	35.42	56.00	-20.58
8	N	1.3707	17.10	AVG	10.03	27.13	46.00	-18.87
9	N	2.3925	26.13	QP	10.04	36.17	56.00	-19.83
10	N	2.3925	16.62	AVG	10.04	26.66	46.00	-19.34
11	N	11.1042	13.09	QP	10.15	23.24	60.00	-36.76
12	N	11.1042	4.42	AVG	10.15	14.57	50.00	-35.43

Test Mode: Bluetooth Mode



Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.2748	29.65	QP	10.03	39.68	60.97	-21.29
2	L1	0.2748	21.93	AVG	10.03	31.96	50.97	-19.01
3	L1	0.3489	33.95	QP	10.03	43.98	58.99	-15.01
4	L1	0.3489	26.69	AVG	10.03	36.72	48.99	-12.27
5	L1	0.6180	26.58	QP	10.03	36.61	56.00	-19.39
6	L1	0.6180	15.80	AVG	10.03	25.83	46.00	-20.17
7	L1	1.1133	24.49	QP	10.03	34.52	56.00	-21.48
8	L1	1.1133	12.77	AVG	10.03	22.80	46.00	-23.20
9	L1	2.5641	20.84	QP	10.05	30.89	56.00	-25.11
10	L1	2.5641	9.22	AVG	10.05	19.27	46.00	-26.73
11	L1	4.1778	19.55	QP	10.07	29.62	56.00	-26.38
12	L1	4.1778	5.15	AVG	10.07	15.22	46.00	-30.78

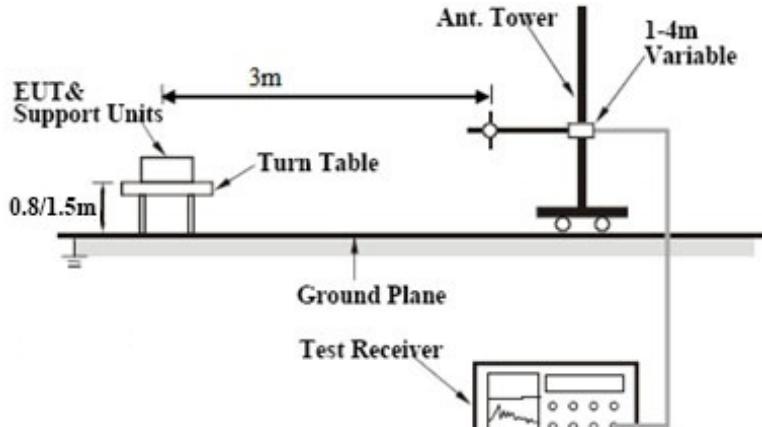
Test Mode: Bluetooth Mode

Test Data
Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.3489	38.16	QP	10.02	48.18	58.99	-10.81
2	N	0.3489	30.86	AVG	10.02	40.88	48.99	-8.11
3	N	0.6024	32.81	QP	10.02	42.83	56.00	-13.17
4	N	0.6024	24.40	AVG	10.02	34.42	46.00	-11.58
5	N	0.8364	26.19	QP	10.03	36.22	56.00	-19.78
6	N	0.8364	18.24	AVG	10.03	28.27	46.00	-17.73
7	N	1.2810	27.62	QP	10.03	37.65	56.00	-18.35
8	N	1.2810	16.55	AVG	10.03	26.58	46.00	-19.42
9	N	2.2482	29.97	QP	10.04	40.01	56.00	-15.99
10	N	2.2482	22.06	AVG	10.04	32.10	46.00	-13.90
11	N	3.4914	27.71	QP	10.05	37.76	56.00	-18.24
12	N	3.4914	20.02	AVG	10.05	30.07	46.00	-15.93

6.9 Radiated Emissions

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	October 23, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.205, §15.209, §15.247(d)	a)	<p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (μV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 – 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength (μ V/m)	30 – 88	100	88 – 216	150	216 – 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength (μ V/m)												
30 – 88	100												
88 – 216	150												
216 – 960	200												
Above 960	500												
Test Setup		 <p>The diagram illustrates the test setup for radiated emissions. A 'Turn Table' is positioned on a 'Ground Plane'. A 'EUT & Support Units' is mounted on the turn table. A 'Ant. Tower' is connected to the EUT and is height-adjustable, with a range of '1-4m Variable'. A 'Test Receiver' is connected to the Ant. Tower. The distance between the EUT and the Ant. Tower is specified as '3m'.</p>											
Procedure		<ol style="list-style-type: none"> 1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. 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 style="list-style-type: none"> a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen. 											

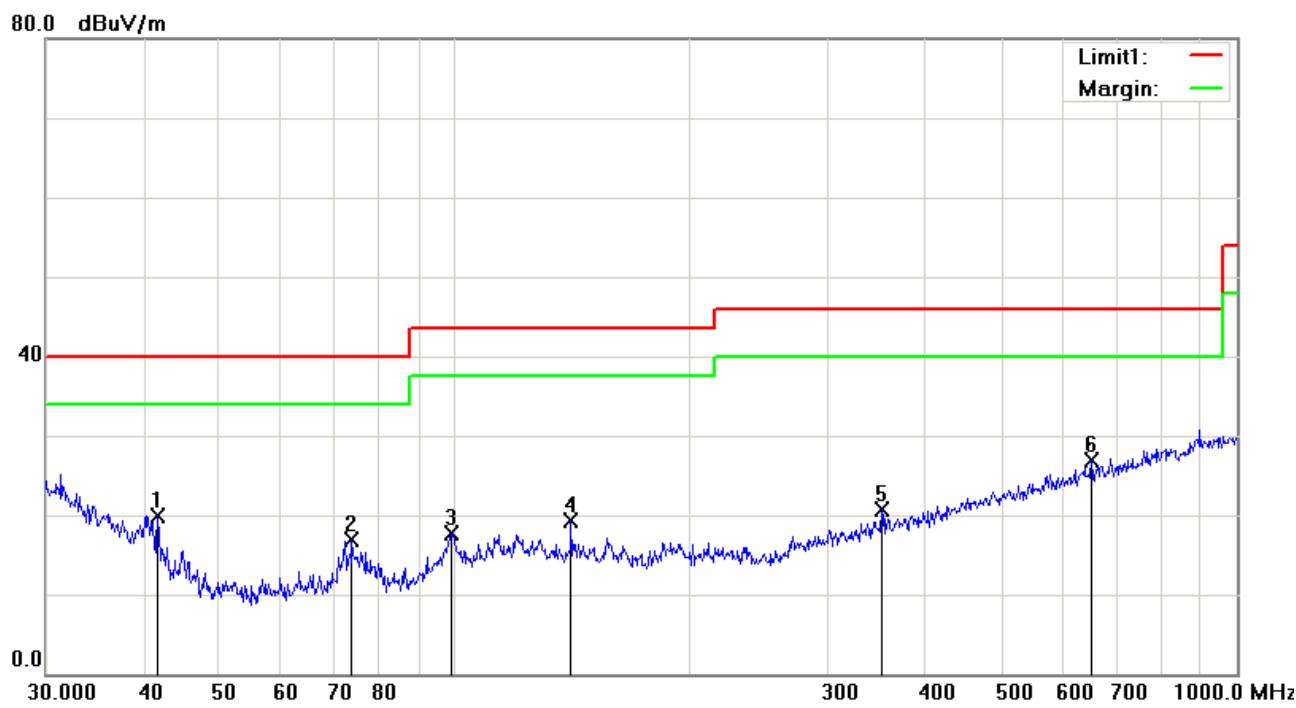
	<p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</p> <p>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.</p> <p>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.</p> <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode: Bluetooth Mode

Below 1GHz

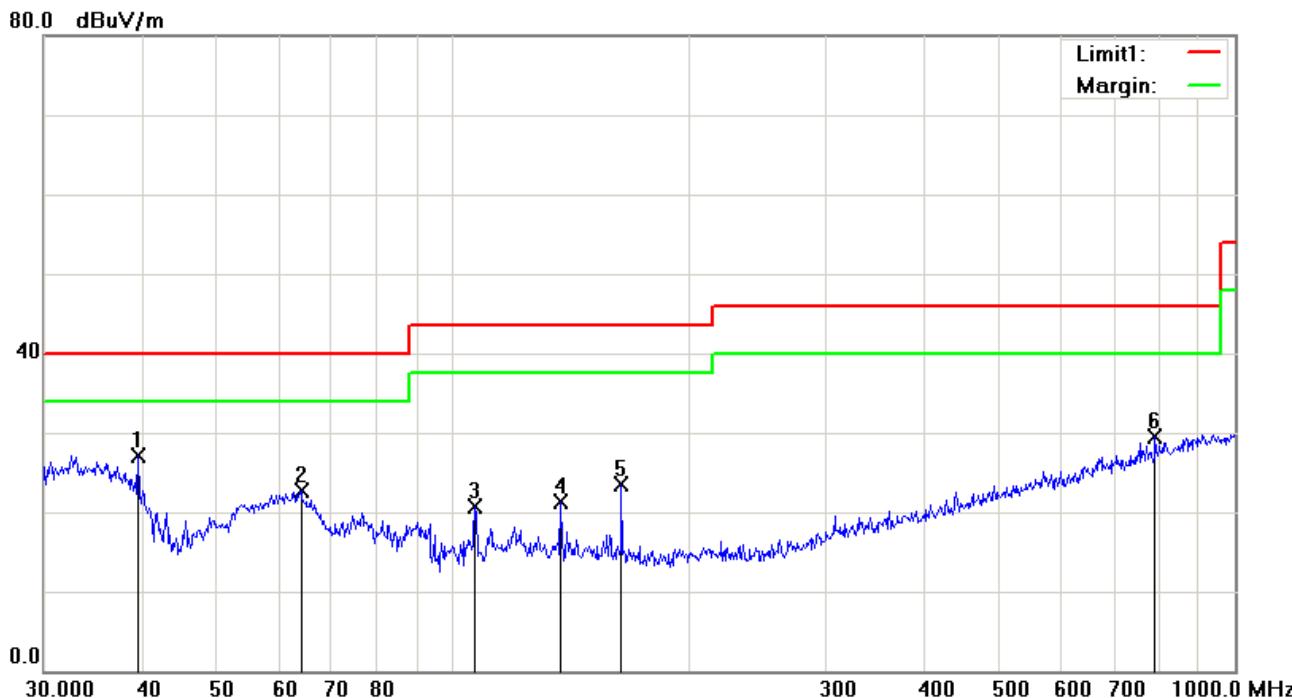


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	H	41.7130	28.69	peak	-8.73	19.96	40.00	-20.04	100	149
2	H	73.8756	30.66	peak	-13.72	16.94	40.00	-23.06	100	167
3	H	99.1797	28.74	peak	-11.02	17.72	43.50	-25.78	100	246
4	H	140.8351	27.73	peak	-8.52	19.21	43.50	-24.29	100	216
5	H	351.7079	26.18	peak	-5.42	20.76	46.00	-25.24	100	0
6	H	651.9417	26.02	peak	0.83	26.85	46.00	-19.15	100	314

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/ m)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree
1	V	39.5757	34.43	peak	-7.28	27.15	40.00	-12.85	100	210
2	V	63.9828	36.75	peak	-14.05	22.70	40.00	-17.30	100	132
3	V	106.7587	30.32	peak	-9.60	20.72	43.50	-22.78	100	359
4	V	137.4202	29.70	peak	-8.38	21.32	43.50	-22.18	100	203
5	V	164.3302	32.11	peak	-8.64	23.47	43.50	-20.03	100	203
6	V	790.6188	26.36	peak	3.06	29.42	46.00	-16.58	100	150

Test Mode:	Transmitting Mode
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Mode: GFSK (Worst Case)

Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4804	38.91	AV	V	33.83	6.86	31.72	47.88	54	-6.12
4804	38.26	AV	H	33.83	6.86	31.72	47.23	54	-6.77
4804	46.37	PK	V	33.83	6.86	31.72	55.34	74	-18.66
4804	46.12	PK	H	33.83	6.86	31.72	55.09	74	-18.91

Middle Channel (2441 MHz)

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4882	38.73	AV	V	33.86	6.82	31.82	47.59	54	-6.41
4882	38.31	AV	H	33.86	6.82	31.82	47.17	54	-6.83
4882	46.48	PK	V	33.86	6.82	31.82	55.34	74	-18.66
4882	46.03	PK	H	33.86	6.82	31.82	54.89	74	-19.11

High Channel (2480 MHz)

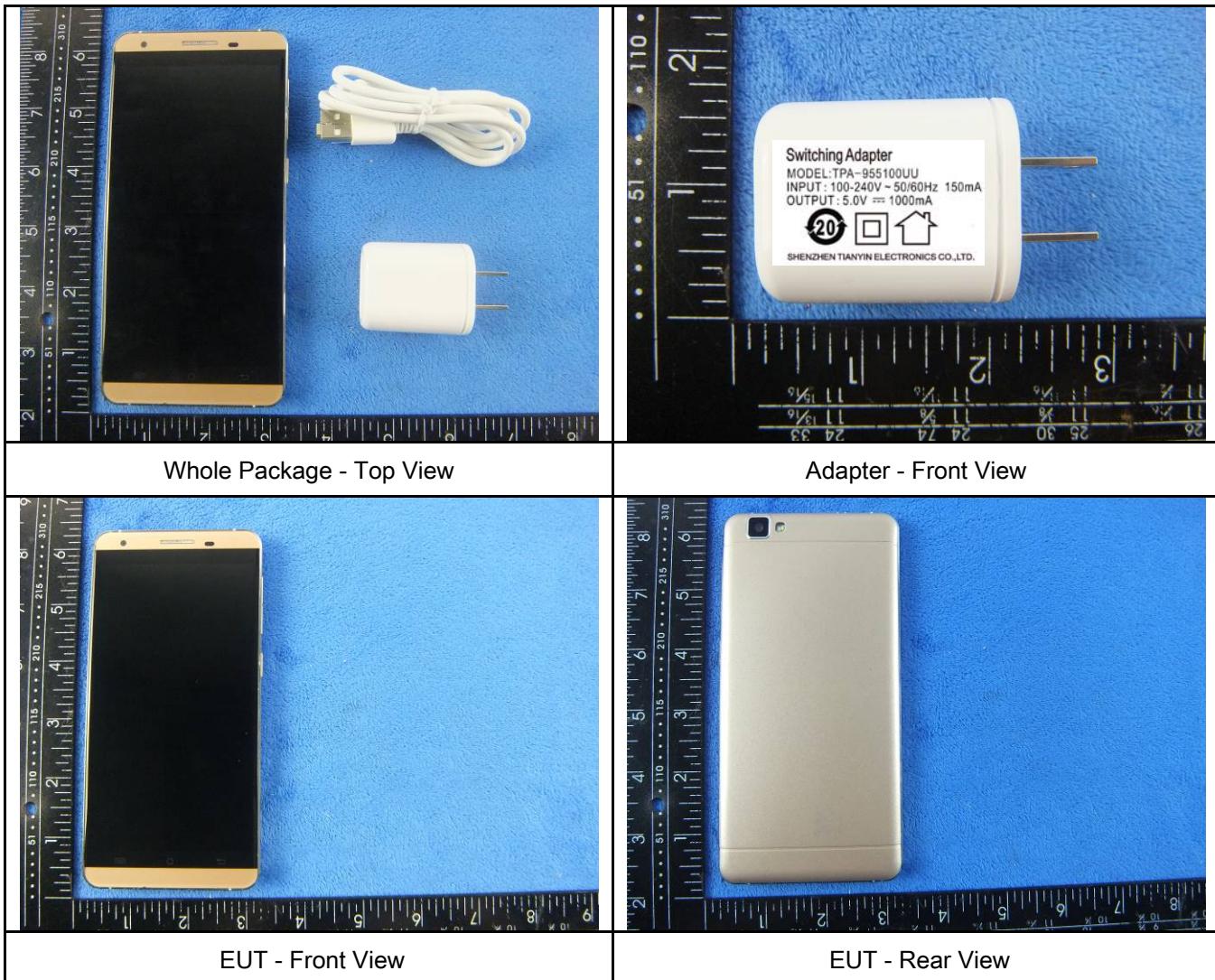
Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4960	38.69	AV	V	33.9	6.76	31.92	47.43	54	-6.57
4960	38.44	AV	H	33.9	6.76	31.92	47.18	54	-6.82
4960	46.59	PK	V	33.9	6.76	31.92	55.33	74	-18.67
4960	46.05	PK	H	33.9	6.76	31.92	54.79	74	-19.21

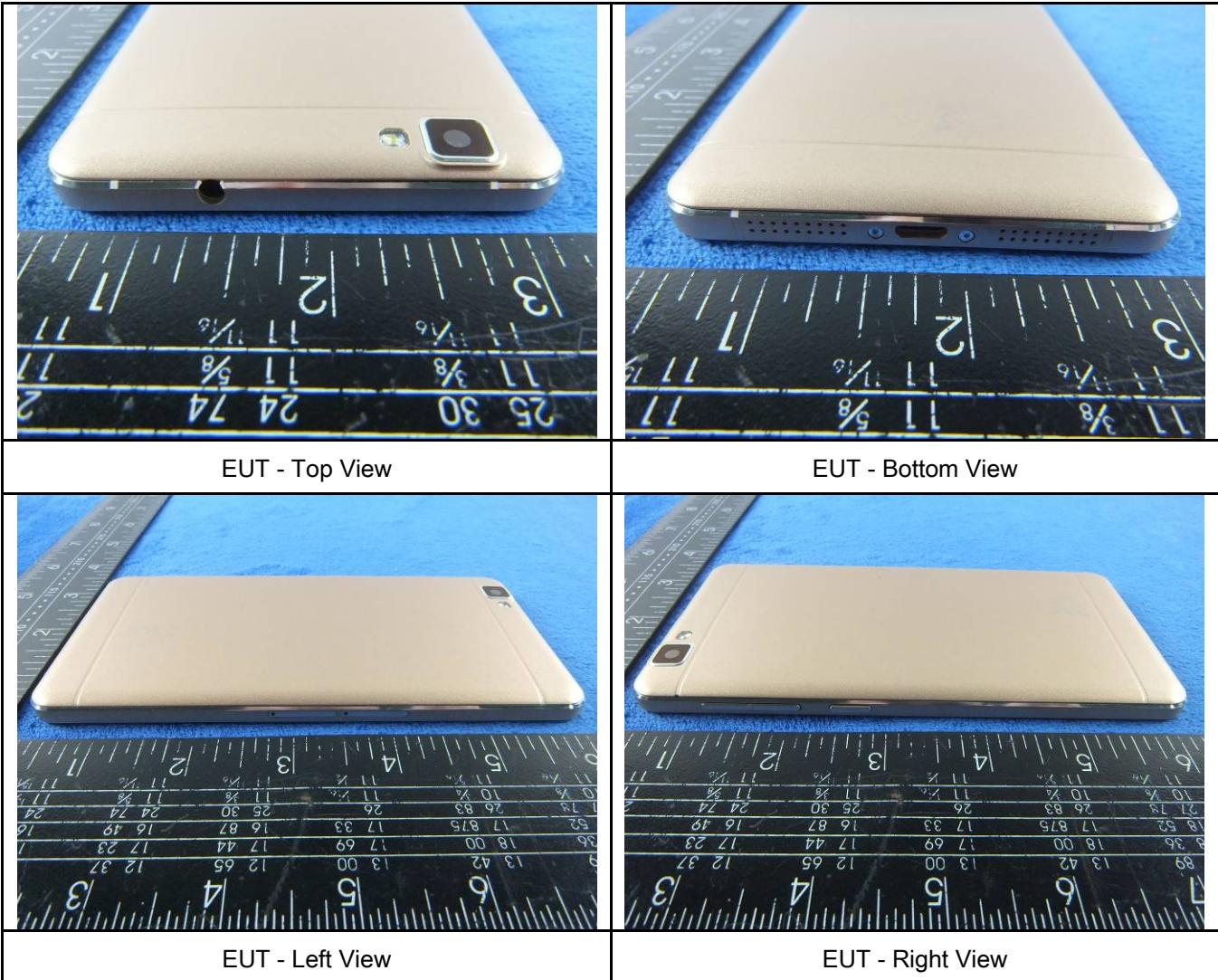
Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	<input checked="" type="checkbox"/>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	09/01/2015	08/31/2016	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/20/2014	11/19/2015	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/23/2016	<input checked="" type="checkbox"/>

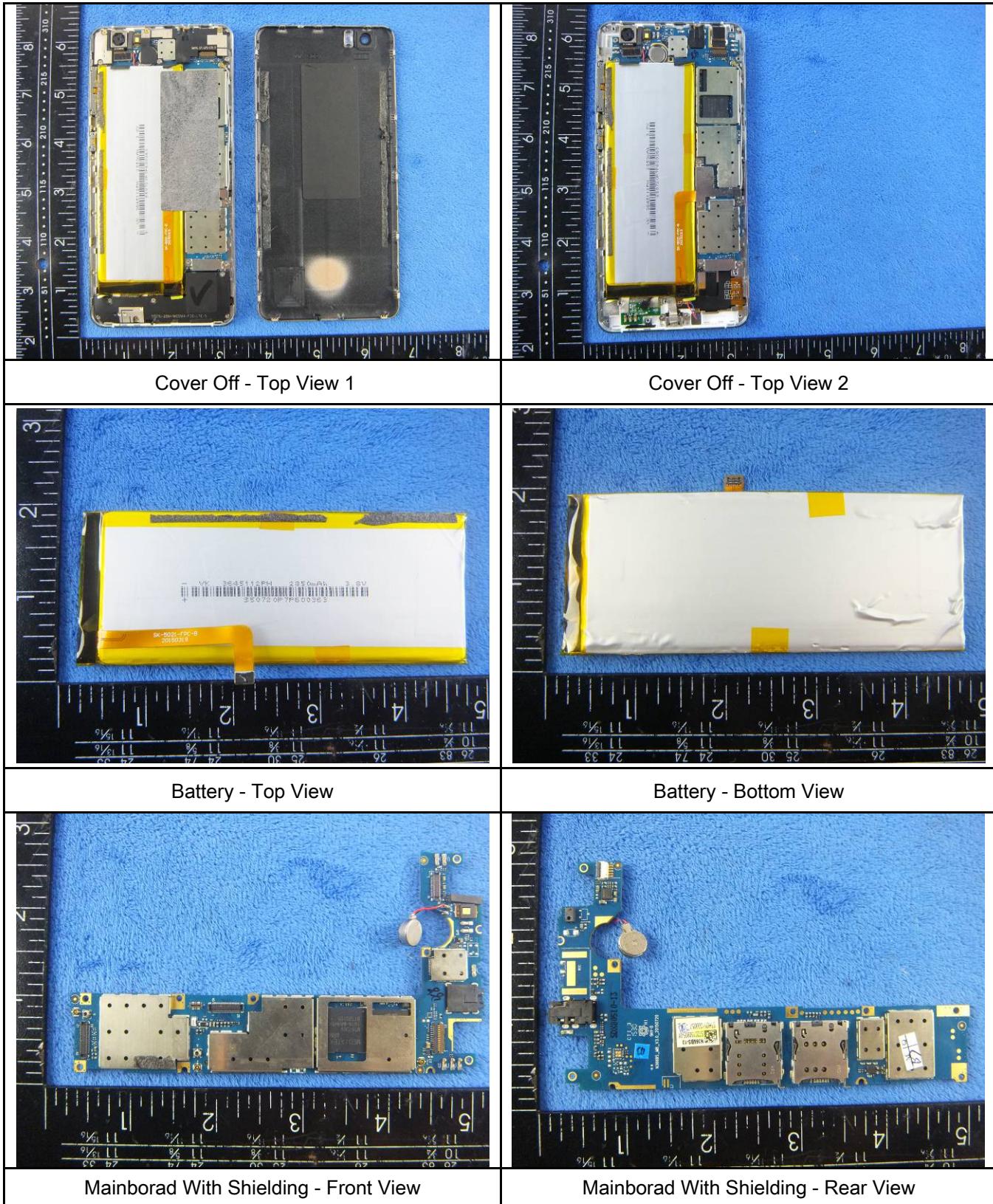
Annex B. EUT And Test Setup Photographs

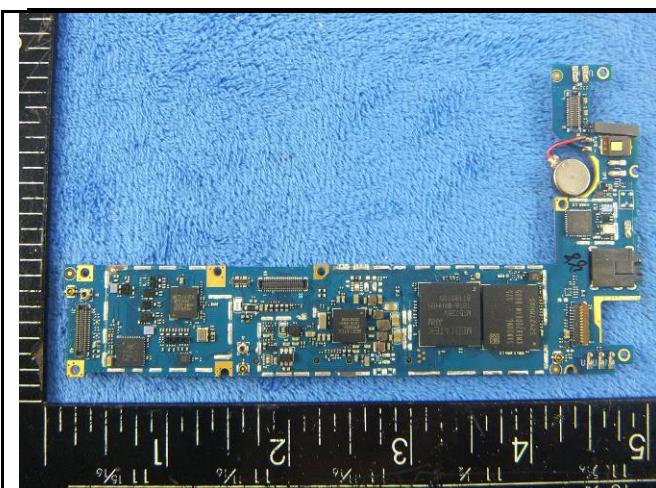
Annex B.i. Photograph: EUT External Photo



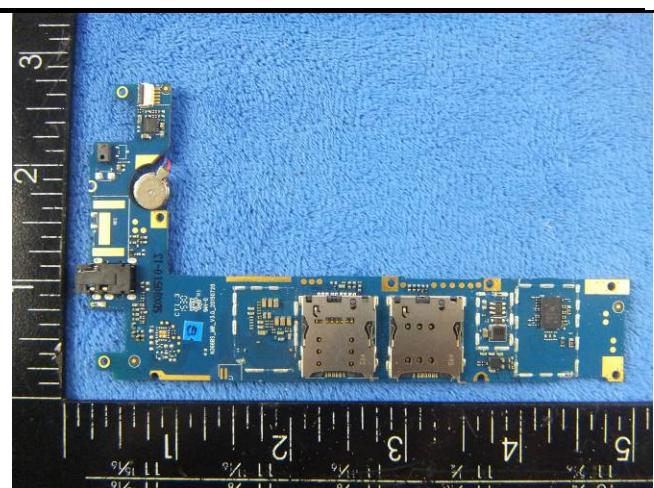


Annex B.ii. Photograph: EUT Internal Photo





Mainborad Without Shielding - Front View



Mainborad Without Shielding - Rear View



LCD – Front View



LCD – Rear View



GSM/PCS/UMTS-FDD Antenna View

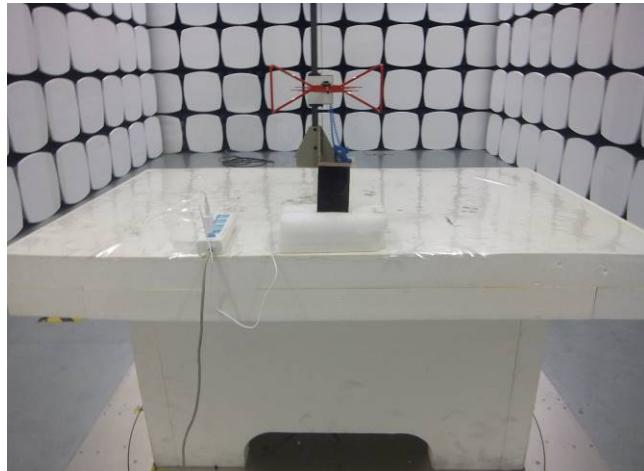
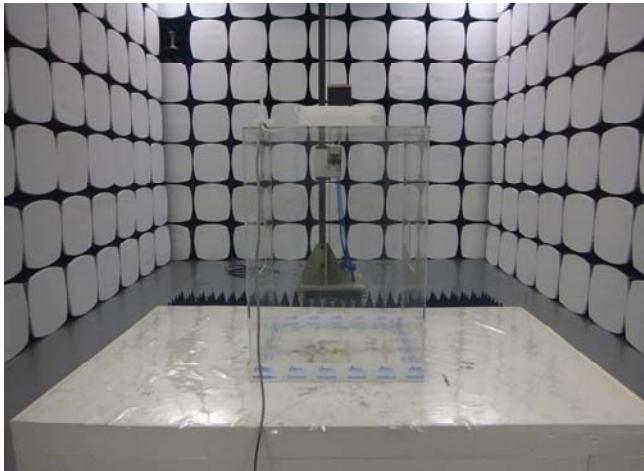


WIFI/BT/BLE - Antenna View



GPS/LTE - Antenna View

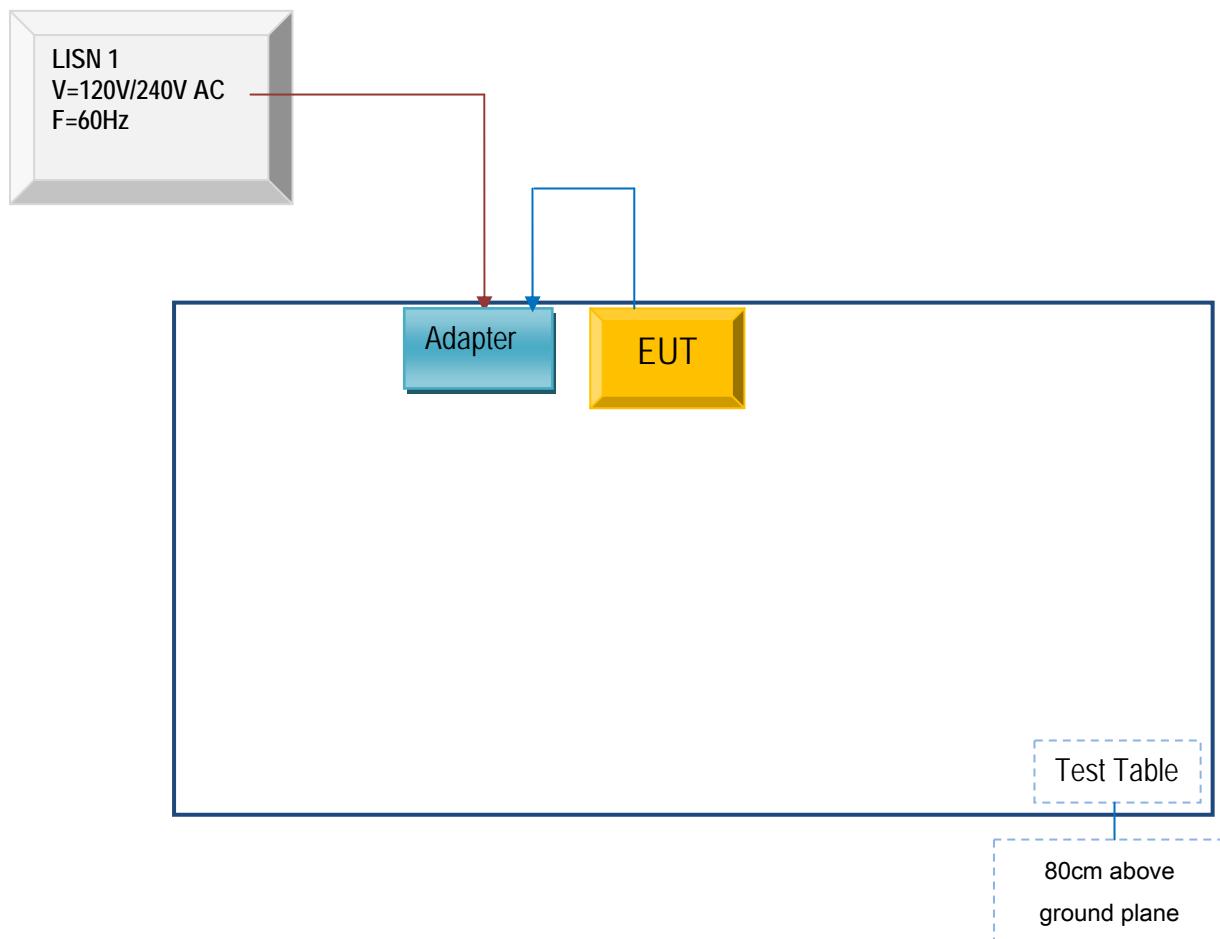
Annex B.iii. Photograph: Test Setup Photo

 A photograph showing a wooden table in a test chamber. On the table is a white rectangular device, possibly a smartphone or a small tablet, resting on a white foam pad. A power strip with multiple outlets is on the table, and a power cord is connected to it. The background shows the interior of a test chamber with a metal frame and some equipment on the floor.	 A photograph showing a side view of the test setup. The white rectangular device is on a white foam pad on a wooden table. A power strip is on the table, and a power cord is connected to it. The background shows the interior of a test chamber with a metal frame and some equipment on the floor.
Conducted Emissions Test Setup Front View	Conducted Emissions Test Setup Side View
 A photograph showing a test setup in a large anechoic chamber. The device is mounted on a black rectangular base and is positioned in front of a grid of white and black absorber panels. The floor of the chamber is covered with a reflective material.	 A photograph showing a test setup in a large anechoic chamber. The device is mounted on a black rectangular base and is positioned in front of a grid of white and black absorber panels. The floor of the chamber is covered with a reflective material.
Radiated Spurious Emissions Test Setup Below 1GHz	Radiated Spurious Emissions Test Setup Above 1GHz

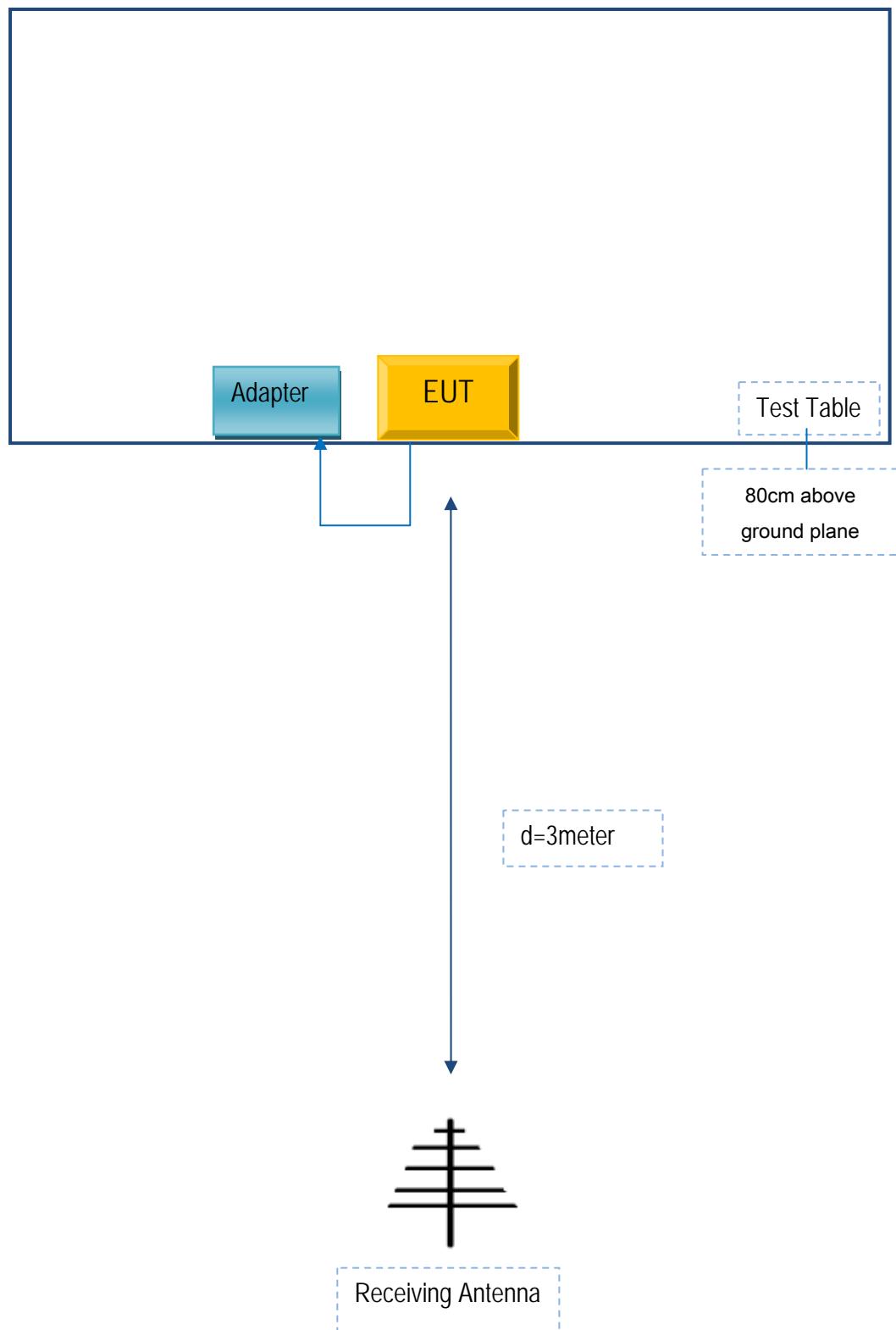
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

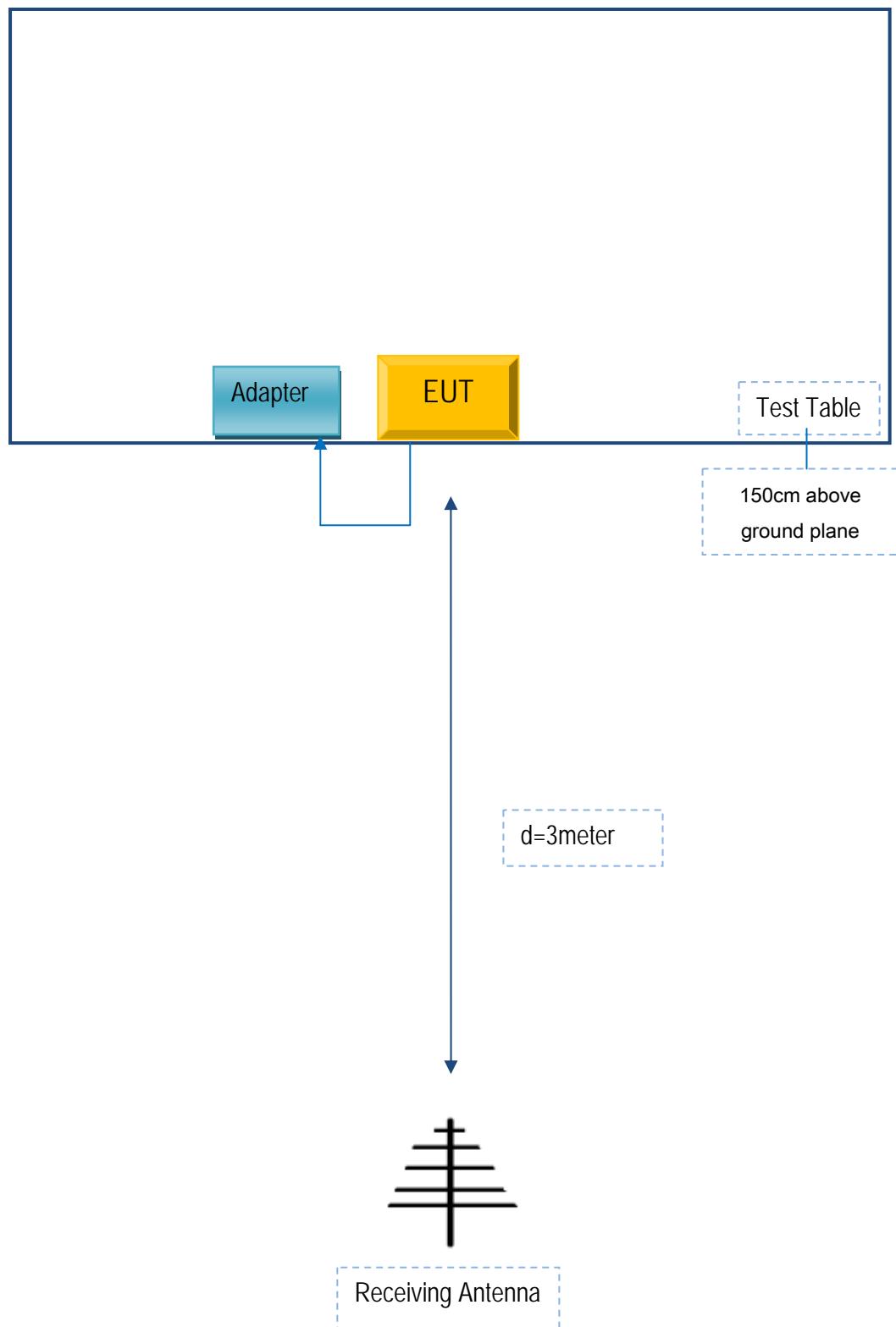
Block Configuration Diagram for AC Line Conducted Emissions



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



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



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

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

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A

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

Please see attachment

Annex E. DECLARATION OF SIMILARITY

N/A