

RF TEST REPORT



Report No.: 16071183-FCC-R2

Supersede Report No.: N/A

Applicant	NEG TECHNOLOGY CO., LIMITED	
Product Name	Mobile Phone	
Model No.	SMART O2	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2015, ANSI C63.10: 2013	
Test Date	September 23 to October 16, 2016	
Issue Date	October 17, 2016	
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"/>
Loren Luo	David Huang	
Loren Luo Test Engineer	David Huang Checked By	
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Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

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

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

Laboratories Introduction

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



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

Accreditations for Conformity Assessment

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

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16071183-FCC-R2	NONE	Original	October 17, 2016

2. Customer information

Applicant Name	NEG TECHNOLOGY CO., LIMITED
Applicant Add	Rm 1406, Block B, Jinsejiali, Jingtian south road, Futian district, Shenzhen, China
Manufacturer	NEG TECHNOLOGY CO., LIMITED
Manufacturer Add	Rm 1406, Block B, Jinsejiali, Jingtian south road, Futian district, Shenzhen, China

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: Mobile Phone

 Main Model: SMART O2

 Serial Model: N/A

 Date EUT received: September 22, 2016

 Test Date(s): September 23 to October 16, 2016

 Equipment Category : DSS

 GSM850: -0.45dBi
 PCS1900: -0.53dBi
 UMTS-FDD Band V: -0.46dBi
 UMTS-FDD Band II: -0.51dBi
 LTE Band IV: -0.51dBi
 Bluetooth/BLE/WIFI: -1.1dBi
 GPS: -1.5dBi

 Antenna Gain:
 Antenna Type: PIFA antenna

 Type of Modulation:
 GSM / GPRS: GMSK
 EGPRS: GMSK,8PSK
 UMTS-FDD: QPSK
 LTE Band: QPSK, 16QAM
 802.11b/g/n: DSSS, OFDM
 Bluetooth: GFSK, π /4DQPSK, 8DPSK
 BLE: GFSK
 GPS:BPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz
PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz
UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz
UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;
RX: 1932.4 ~ 1987.6 MHz

RF Operating Frequency (ies):

LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7 ~ 2154.3 MHz
WIFI: 802.11b/g/n(20M): 2412-2462 MHz
WIFI: 802.11n(40M): 2422-2452 MHz
Bluetooth& BLE: 2402-2480 MHz
GPS: 1575.42 MHz

Max. Output Power:

6.308dBm

GSM 850: 124CH
PCS1900: 299CH
UMTS-FDD Band V: 102CH
UMTS-FDD Band II: 277CH
WIFI :802.11b/g/n(20M): 110CH
WIFI :802.11n(40M): 7CH
Bluetooth: 79CH
BLE: 40CH
GPS:1CH

Answers to Questions

WIFI:802.11b/g/n(20M), 110CH
WIFI :802.11n(40M): 7CH
Bluetooth: 79CH
BLE: 40CH
GPS:1CH

Port:

Power Port, Earphone Port, USB Port

Adapter:

Model: SMART O2

Input: AC100-240V~50/60Hz,0.15A

Input Power:

Output: DC 5.0V, 1000mA

Battery:

Model: SMART 02

Spec: 3.8V,2300mAh(8.74Wh)

Voltage limited of charging: 4.35V

Trade Name :

OWN

GPRS/EGPRS Multi-slot class

8/10/12

FCC ID:

2AAZ8-SMART02

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

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

Measurement Uncertainty

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

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:

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

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

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

Antenna Connector Construction

The EUT has 3 antennas:

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

A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is -0.45dBi for GSM850, -0.53dBi for PCS1900, -0.46dBi for UMTS-FDD Band V, -0.51dBi for UMTS-FDD Band II.

A permanently attached PIFA antenna for LTE Band IV, the gain is -0.51dBi for LTE Band IV.

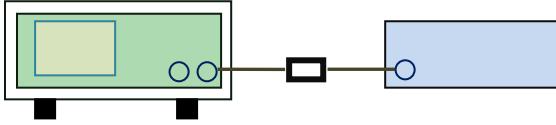
The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 Channel Separation

Temperature	24°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	September 27, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.247(a)(1)	a)	Channel Separation < 20dB BW and 20dB BW < 25KHz ; Channel Separation Limit=25KHz Chanel Separation < 20dB BW and 20dB BW > 25kHz ; Channel Separation Limit=2/3 20dB BW	<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"> - The EUT must have its hopping function enabled - Span = wide enough to capture the peaks of two adjacent channels - Resolution (or IF) Bandwidth (RBW) \geq 1% of the span - Video (or Average) Bandwidth (VBW) \geq RBW - 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 subparagraphs of this Section. Submit this plot. 		

Remark		
Result	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail

 Test Data Yes N/A

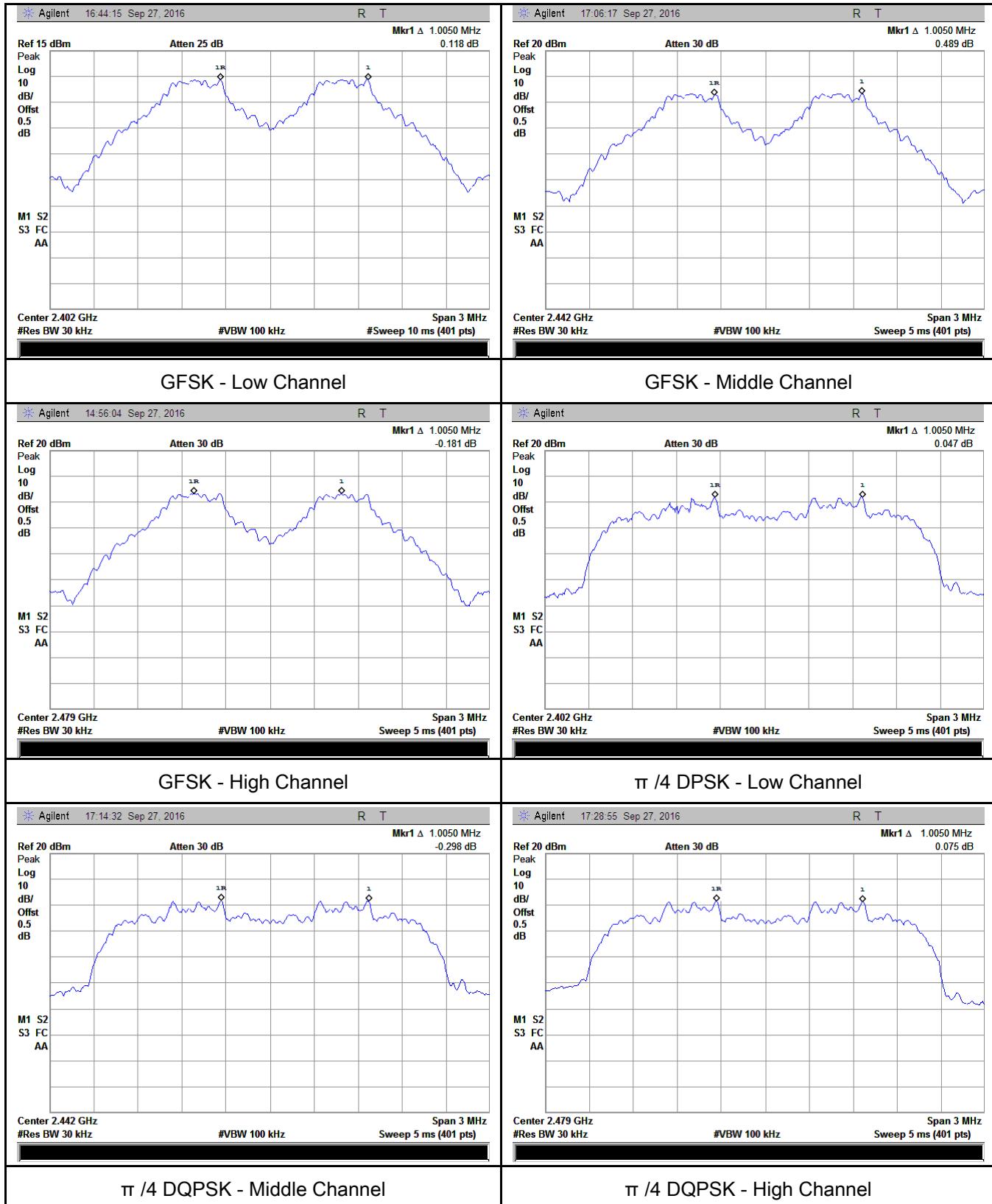
 Test Plot Yes (See below) N/A

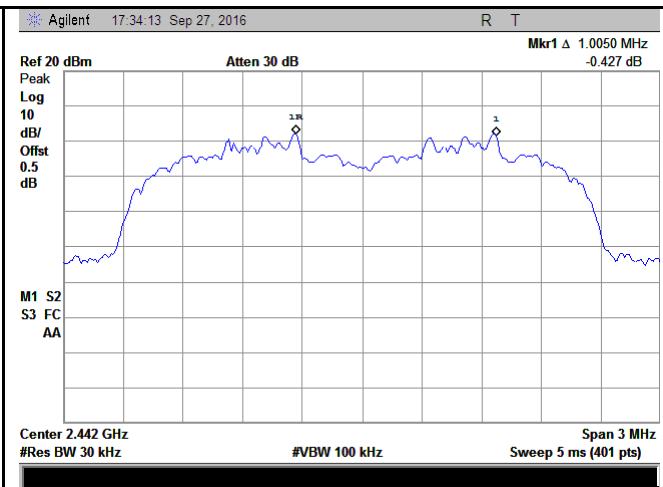
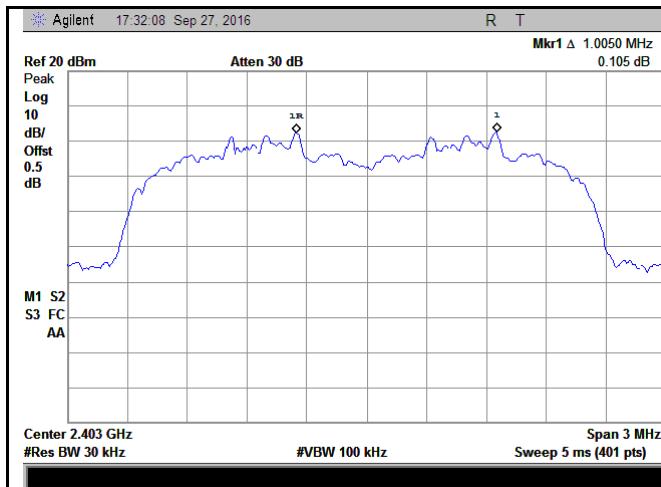
Channel Separation measurement result

Type/ Modulation	CH	CH Frequency (MHz)	CH Separation (MHz)	Limit (MHz)	Result
CH Separation GFSK	Low Channel	2402	1.005	0.699	Pass
	Adjacency Channel	2403			
	Mid Channel	2440			
	Adjacency Channel	2441	1.005	0.691	Pass
	High Channel	2480			
	Adjacency Channel	2479			
CH Separation $\pi/4$ DQPSK	Low Channel	2402	1.005	0.879	Pass
	Adjacency Channel	2403			
	Mid Channel	2440			
	Adjacency Channel	2441	1.005	0.883	Pass
	High Channel	2480			
	Adjacency Channel	2479			
CH Separation 8DPSK	Low Channel	2402	1.005	0.869	Pass
	Adjacency Channel	2403			
	Mid Channel	2440			
	Adjacency Channel	2441	1.005	0.872	Pass
	High Channel	2480			
	Adjacency Channel	2479			

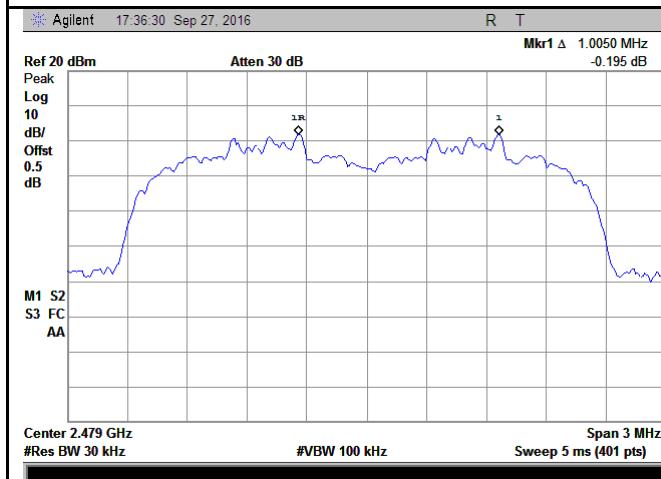
Test Plots

Channel Separation measurement result

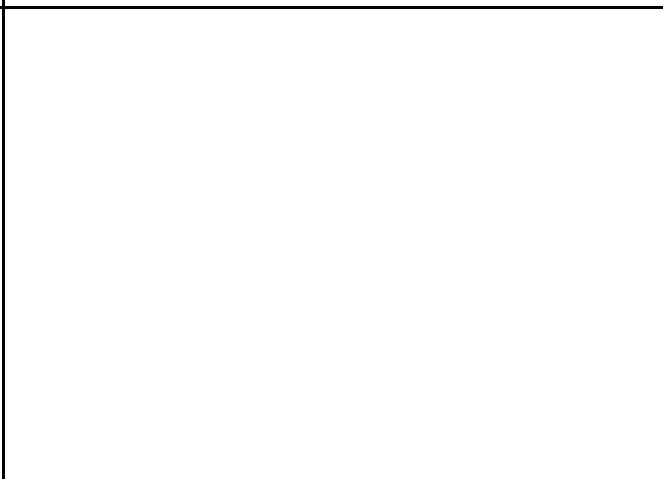




8DPSK - Low Channel



8DPSK - Middle Channel



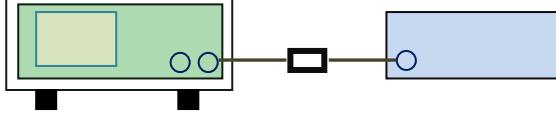
8DPSK - High Channel



6.3 20dB Bandwidth

Temperature	23°C
Relative Humidity	59%
Atmospheric Pressure	1026mbar
Test date :	September 26&27, 2016
Tested By :	Loren Luo

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

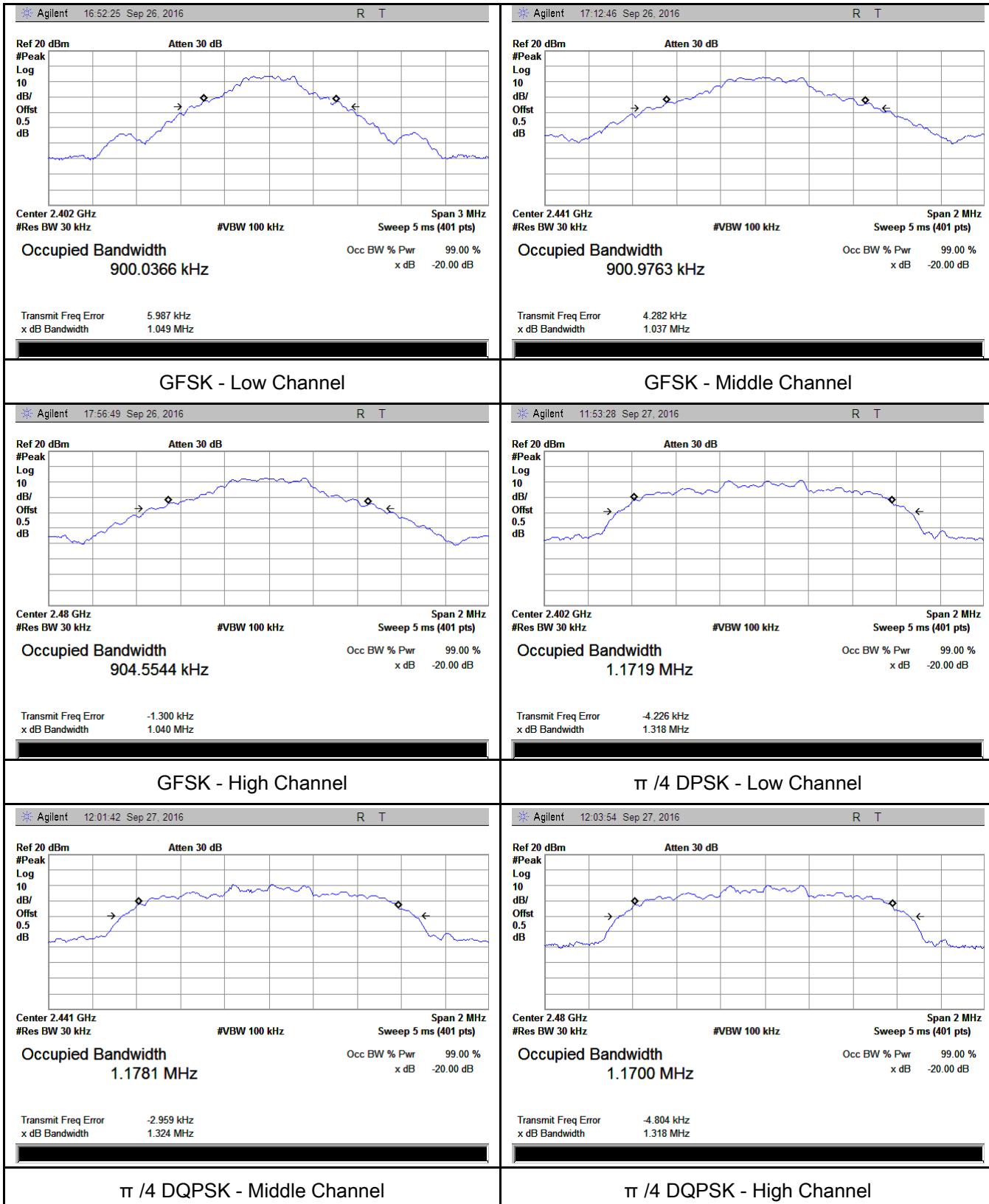
Test Plot Yes (See below) N/A

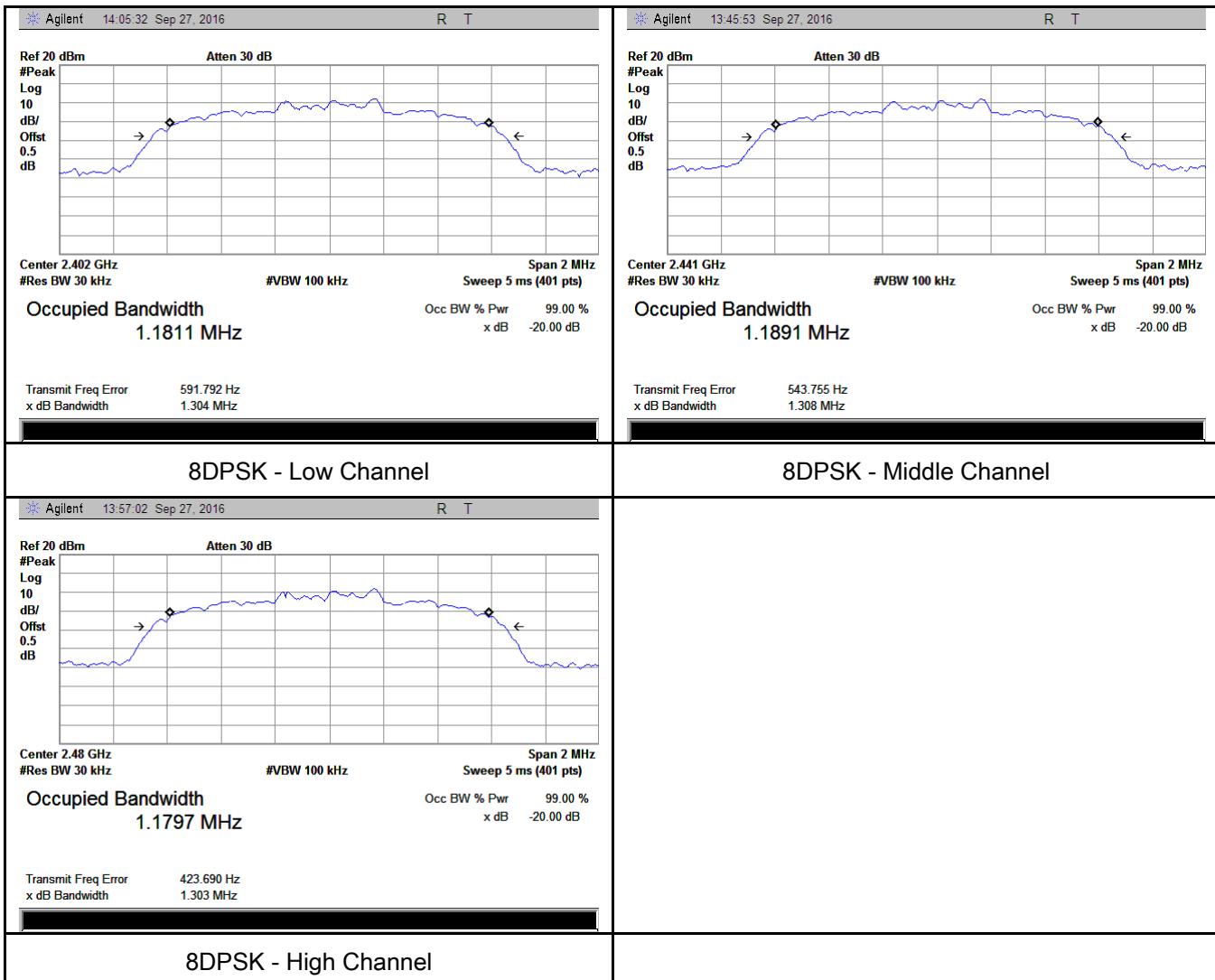
Measurement result

Modulation	CH	CH Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
GFSK	Low	2402	1.049	0.9000
	Mid	2441	1.037	0.9010
	High	2480	1.040	0.9046
$\pi/4$ DQPSK	Low	2402	1.318	1.1719
	Mid	2441	1.324	1.1781
	High	2480	1.318	1.1700
8-DPSK	Low	2402	1.304	1.1811
	Mid	2441	1.308	1.1891
	High	2480	1.303	1.1797

Test Plots

20dB Bandwidth measurement result

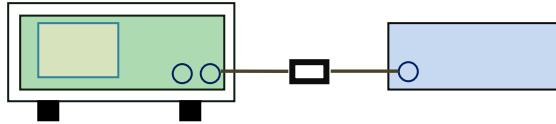




6.4 Peak Output Power

Temperature	24°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	September 27&29, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (3)	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)	DTS in 902-928MHz, 2400-2483.5MHz: \leq 1 Watt	<input 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 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 - Allow the trace to stabilize. 	

	<p>- 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.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

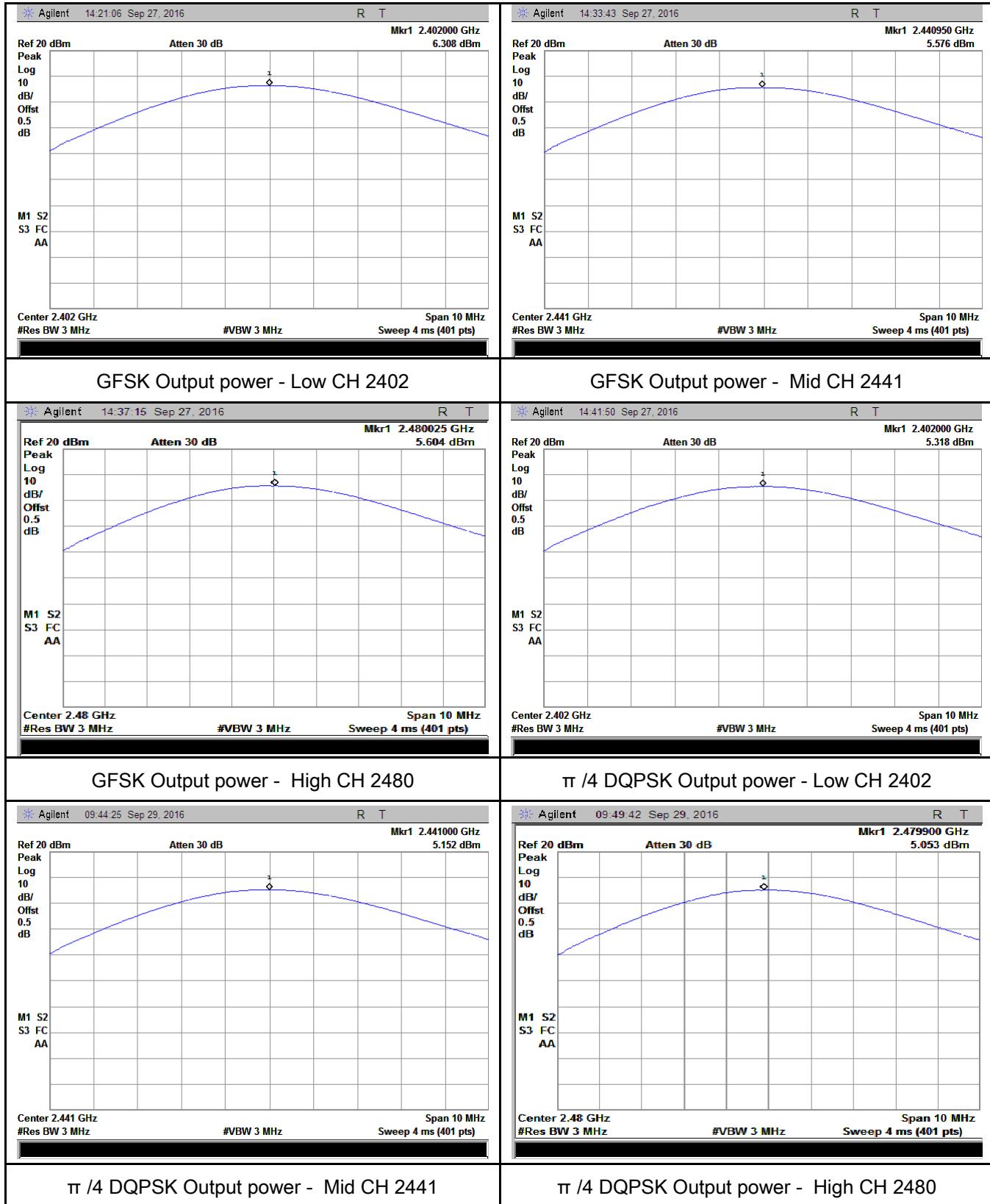
Test Plot Yes (See below) N/A

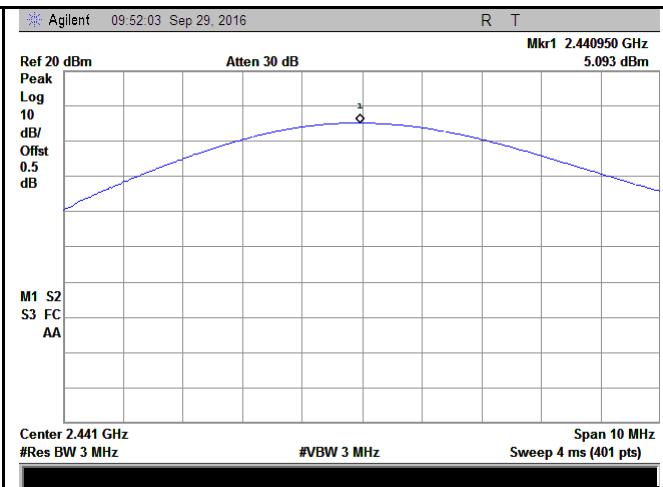
Peak Output Power measurement result

Type	Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power	GFSK	Low	2402	6.308	125	Pass
		Mid	2441	5.576	125	Pass
		High	2480	5.604	125	Pass
	$\pi/4$ DQPSK	Low	2402	5.318	125	Pass
		Mid	2441	5.152	125	Pass
		High	2480	5.053	125	Pass
	8-DPSK	Low	2402	5.542	125	Pass
		Mid	2441	5.093	125	Pass
		High	2480	5.208	125	Pass

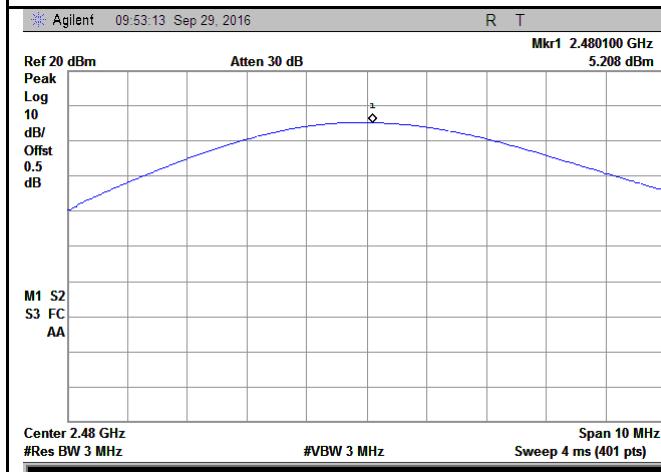
Test Plots

Output Power measurement result





8DPSK Output power - Low CH 2402



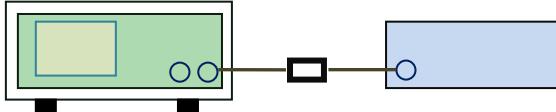
8DPSK Output power - Mid CH 2441

8DPSK Output power - High CH 2480

6.5 Number of Hopping Channel

Temperature	24°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	September 27, 2016
Tested By :	Loren Luo

Requirement(s):

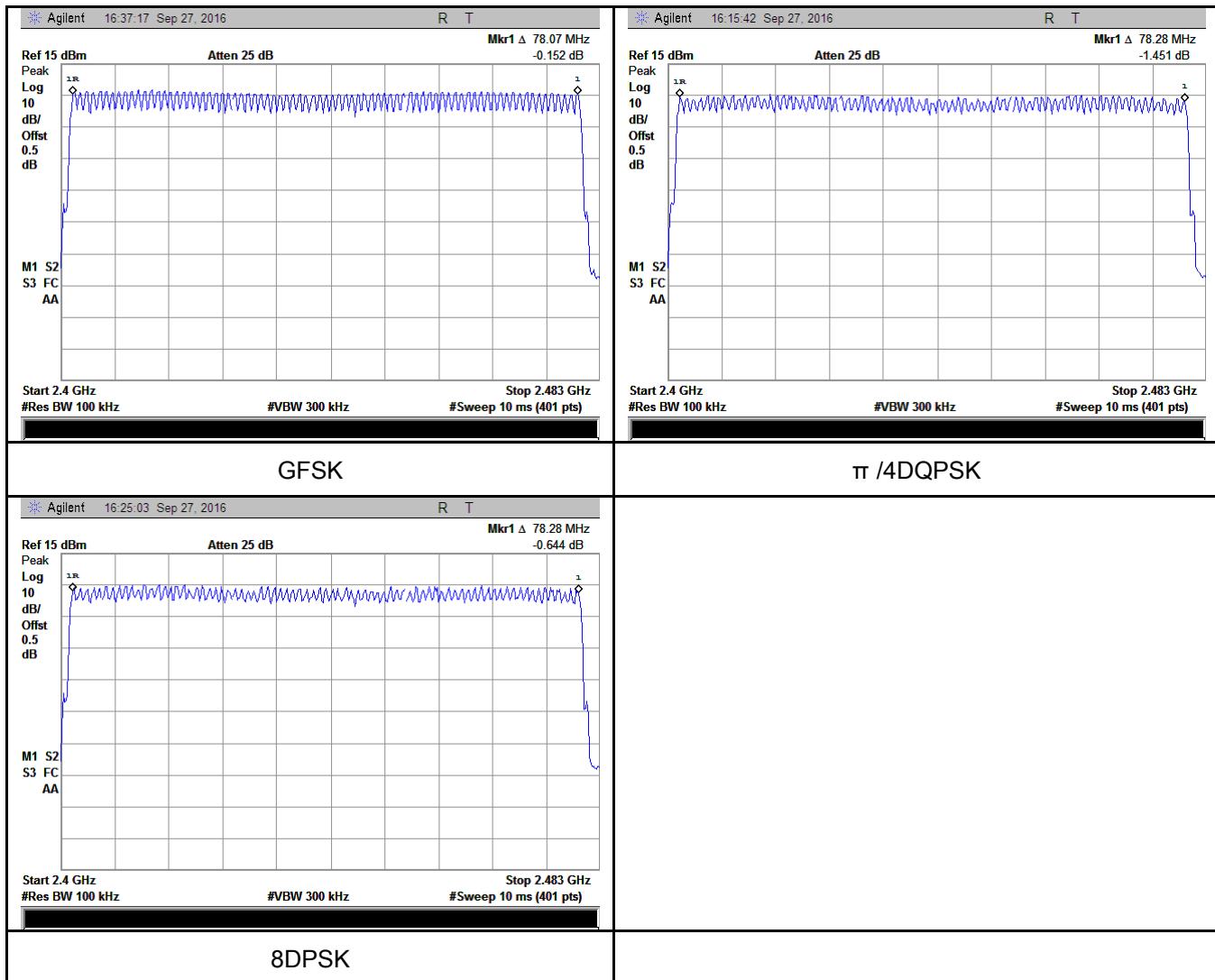
Spec	Item	Requirement	Applicable	
§15.247(a) (1)(iii)	a)	FHSS in 2400-2483.5MHz \geq 15 channels	<input checked="" type="checkbox"/>	
Test Setup				
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</p> <p><u>Use the following spectrum analyzer settings:</u></p> <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	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	N/A
Test Plot	<input checked="" type="checkbox"/>	Yes (See below)	<input type="checkbox"/>	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

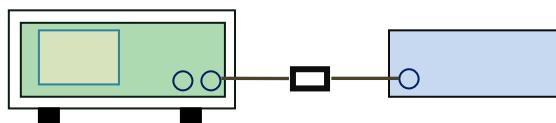
Number of Hopping Channels measurement result



6.6 Time of Occupancy (Dwell Time)

Temperature	24°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	September 27, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable	
§15.247(a) (1)(iii)	a)	Dwell Time < 0.4s	<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</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

Test Plot Yes (See below) N/A

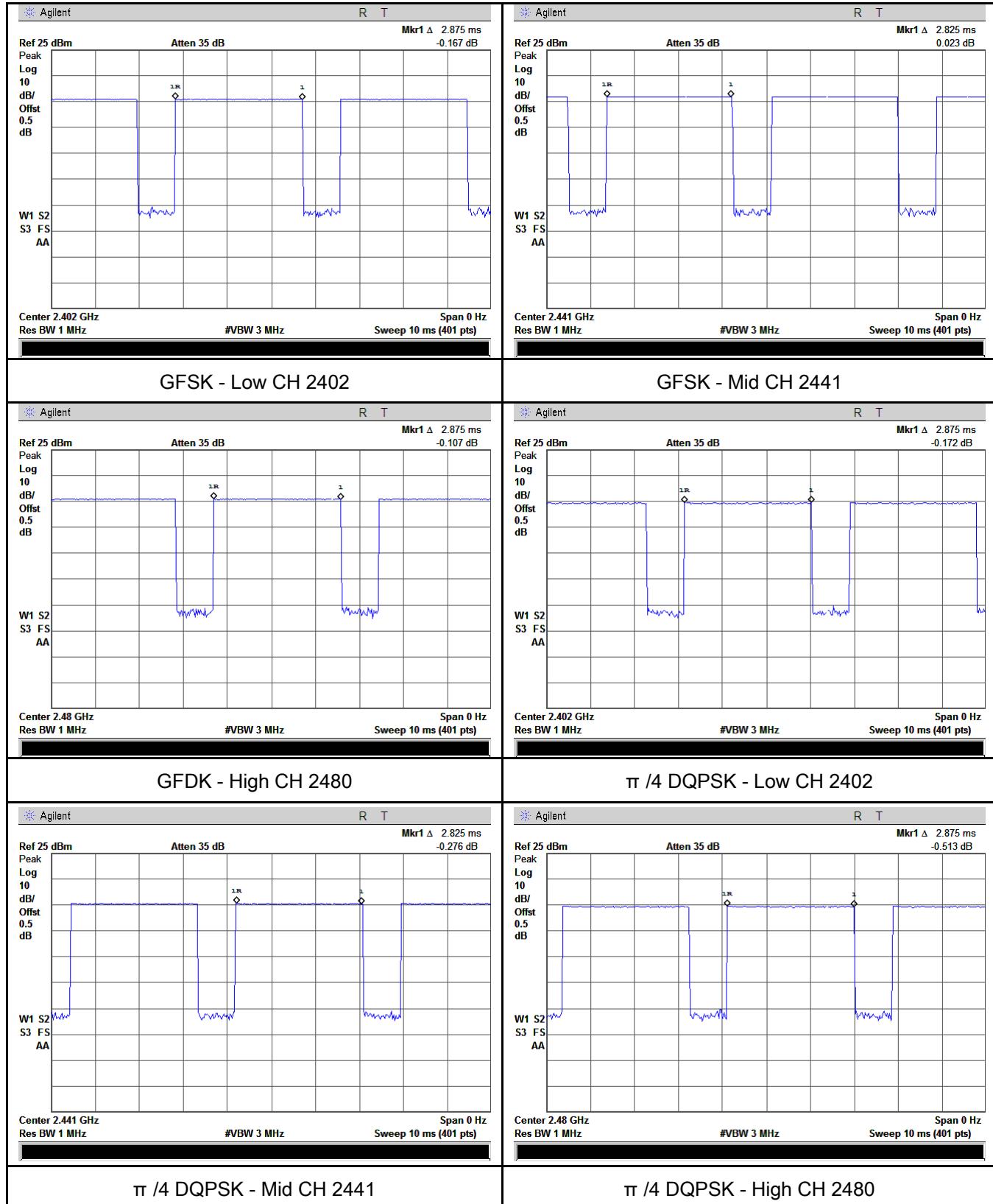
Dwell Time measurement result

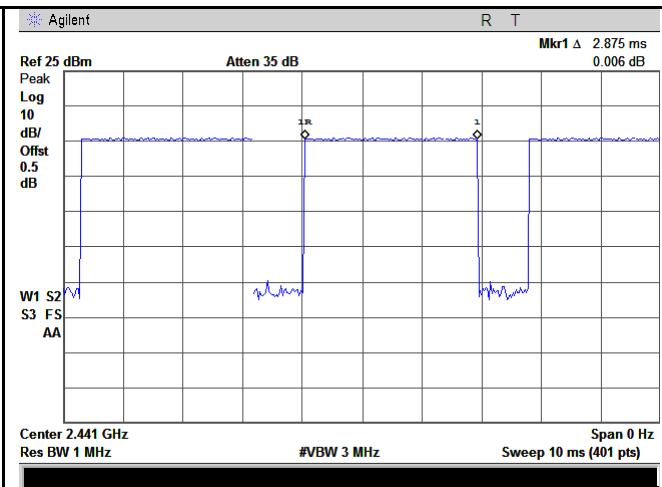
Type	Modulation	CH	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
Dwell Time	GFSK	Low	2.875	306.667	400	Pass
		Mid	2.825	301.333	400	Pass
		High	2.875	306.667	400	Pass
	$\pi/4$ DQPSK	Low	2.875	306.667	400	Pass
		Mid	2.825	301.333	400	Pass
		High	2.875	306.667	400	Pass
	8-DPSK	Low	2.875	306.667	400	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

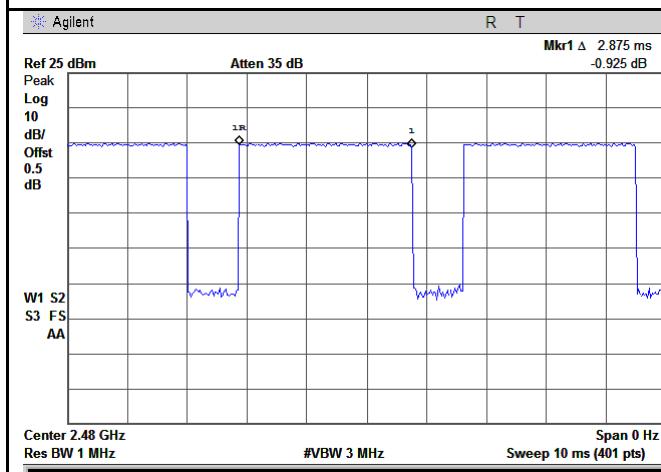
Test Plots

Dwell Time measurement result

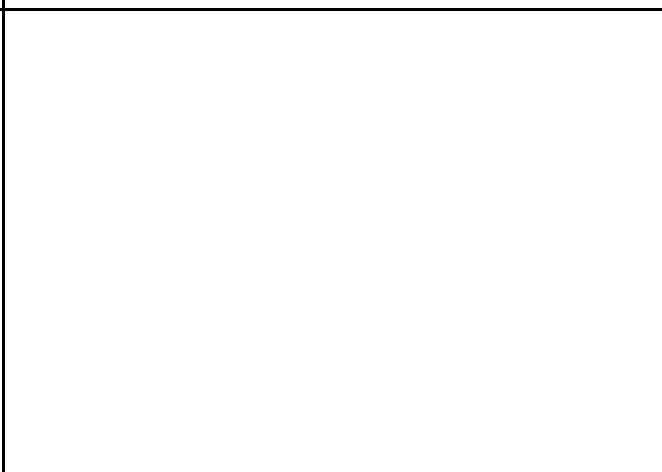




8DPSK - Low CH 2402



8DPSK - Mid CH 2441

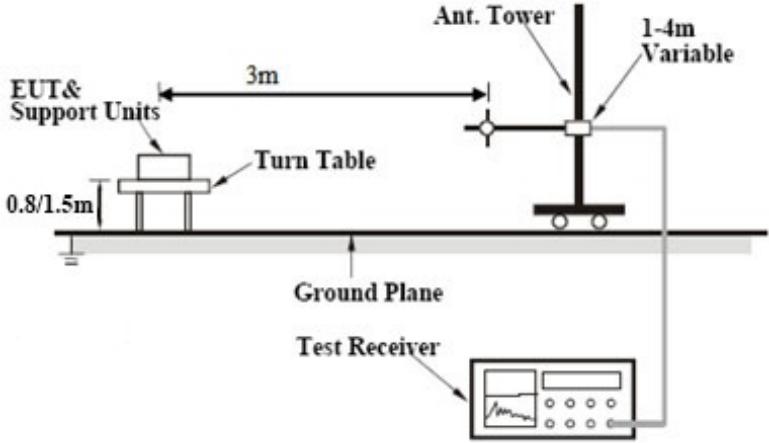


8DPSK - High CH 2480

6.7 Band Edge & Restricted Band

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	September 23&26, 2016
Tested By :	Loren Luo

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, 		

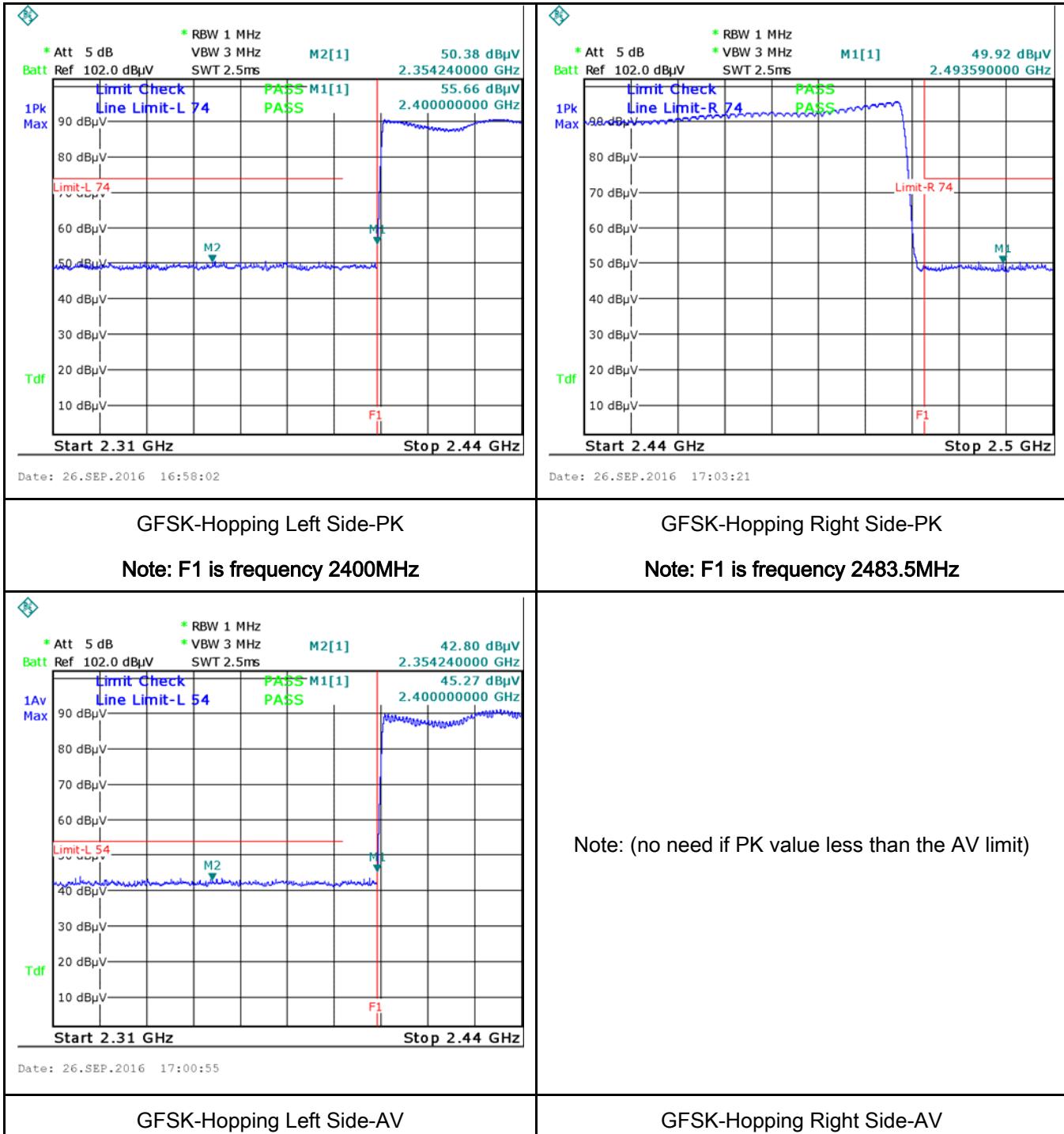
	<p>and make sure the instrument is operated in its linear range.</p> <ul style="list-style-type: none"> - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer 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

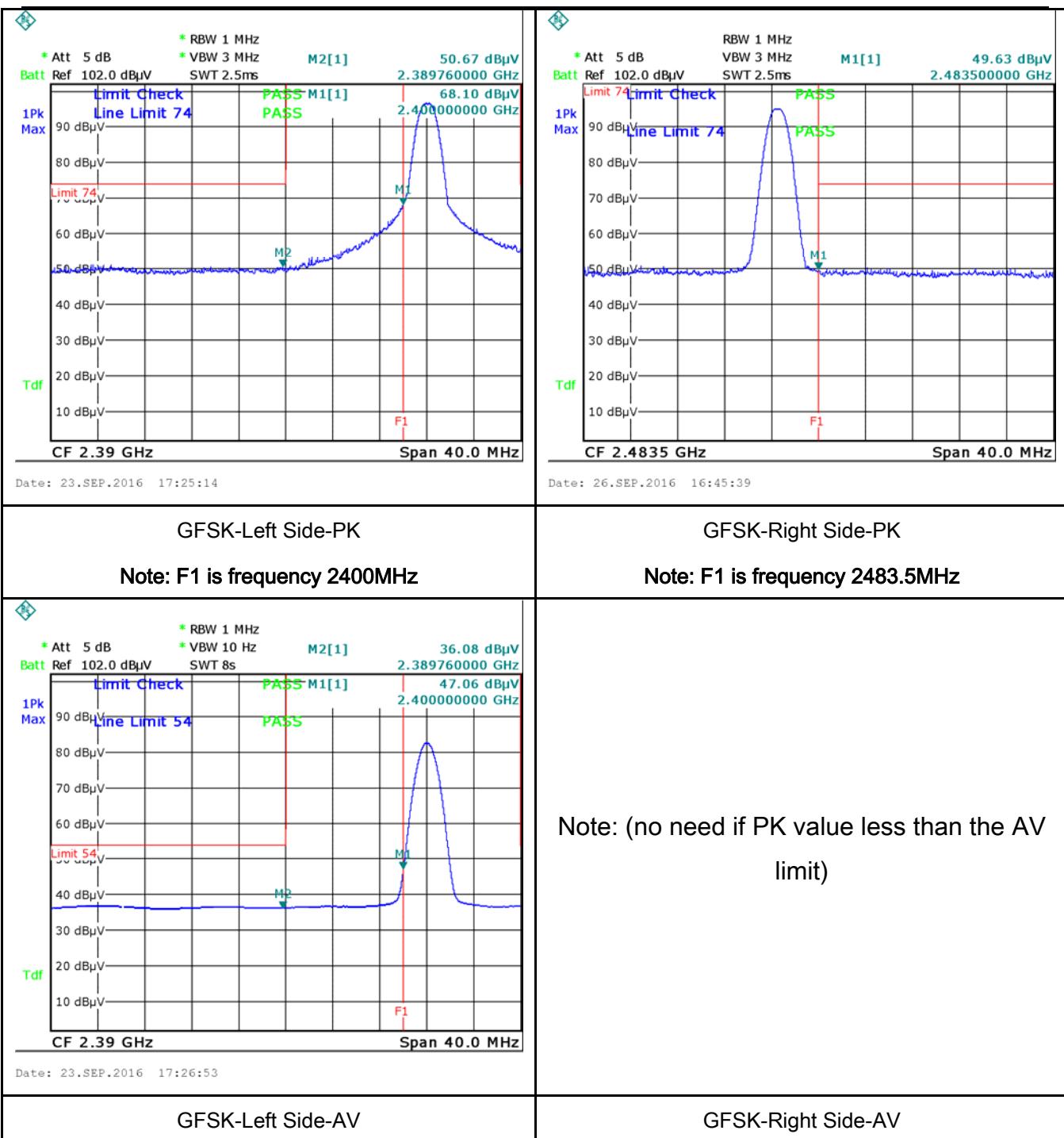
Test Data Yes N/A

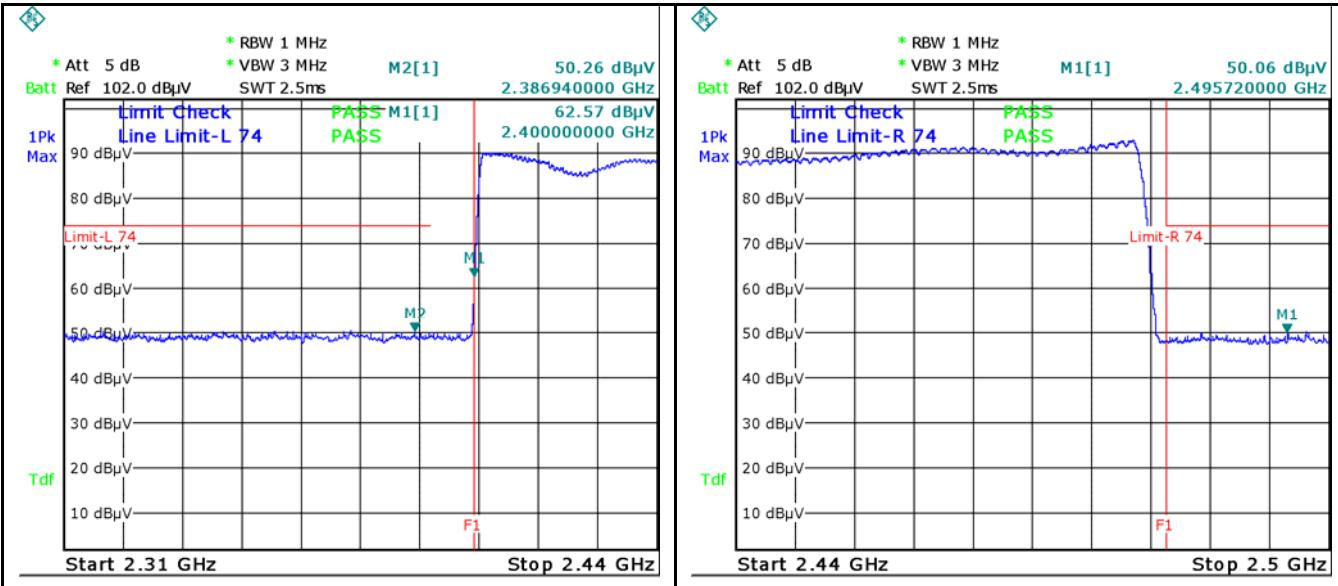
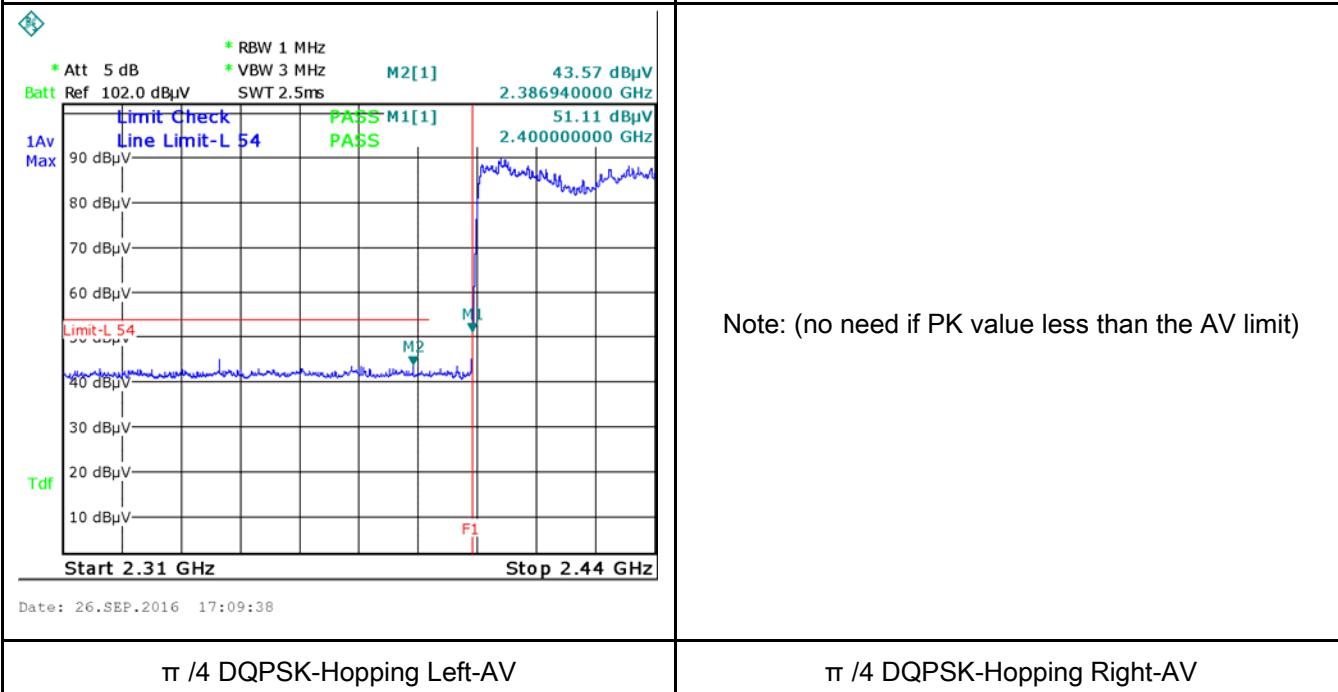
Test Plot Yes (See below) N/A

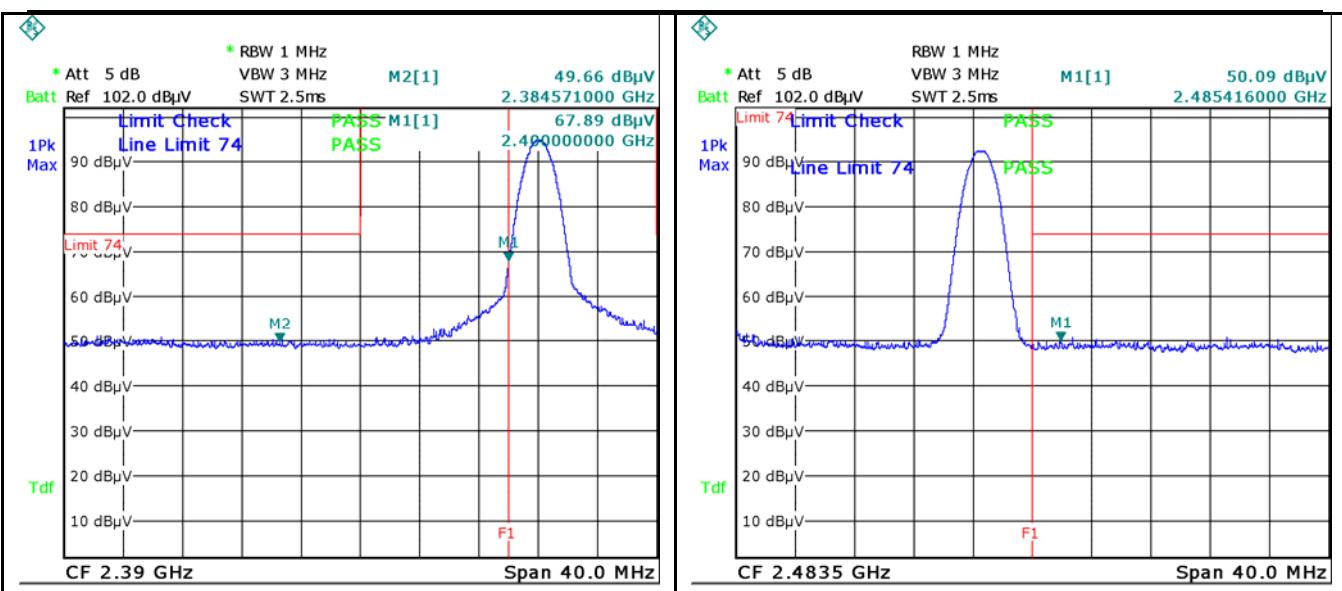
Test Plots

GFSK Mode:





π/4 DQPSK Mode:

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: 23.SEP.2016 17:30:43

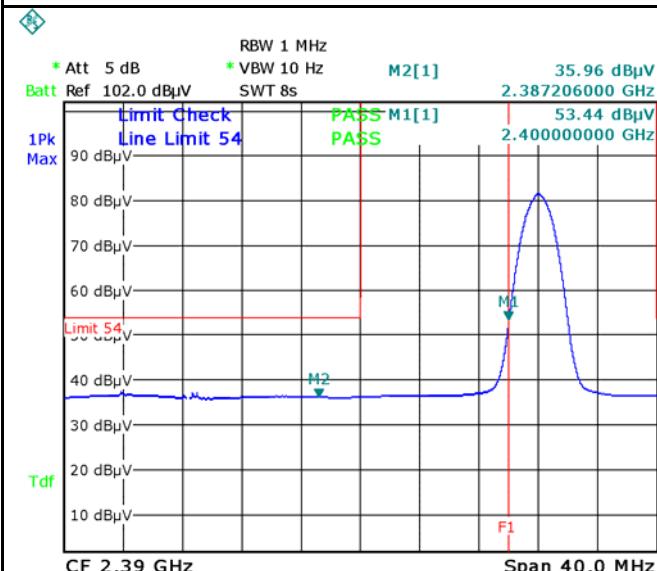
Date: 26.SEP.2016 16:48:16

 $\pi/4$ DQPSK-Left Side-PK

Note: F1 is frequency 2400MHz

 $\pi/4$ DQPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz

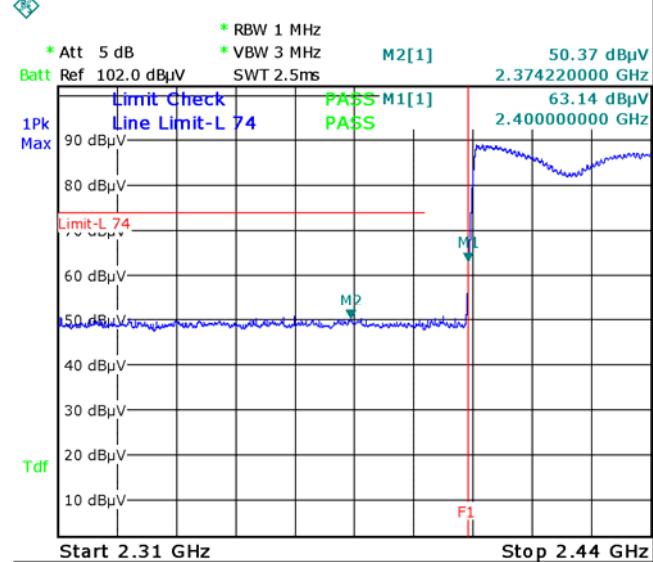
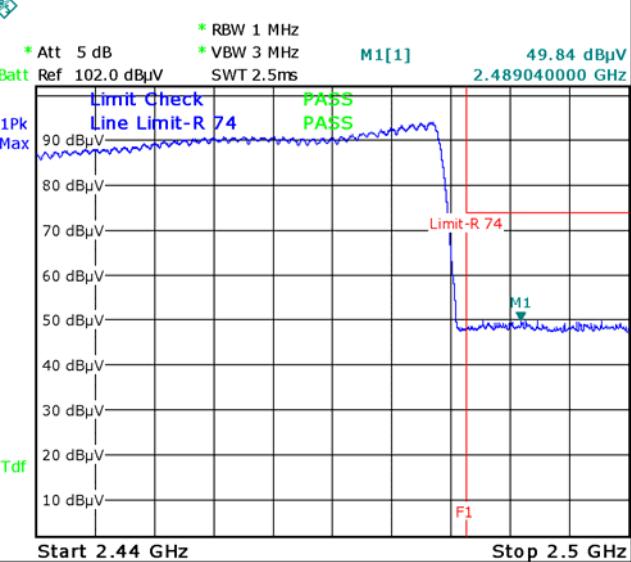
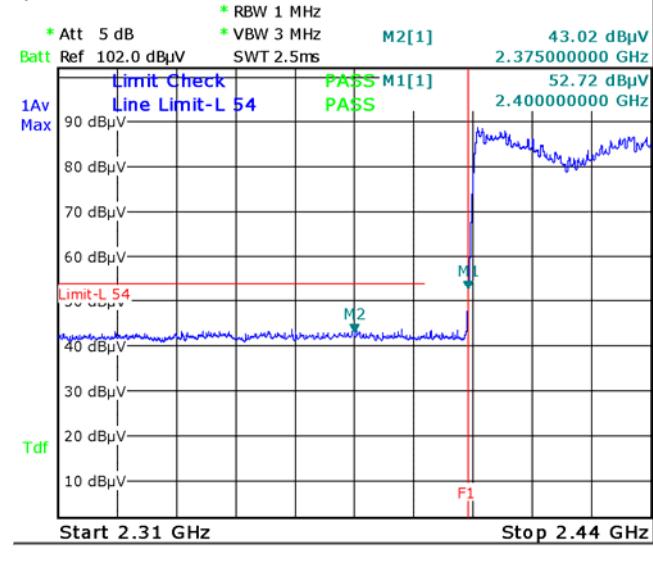


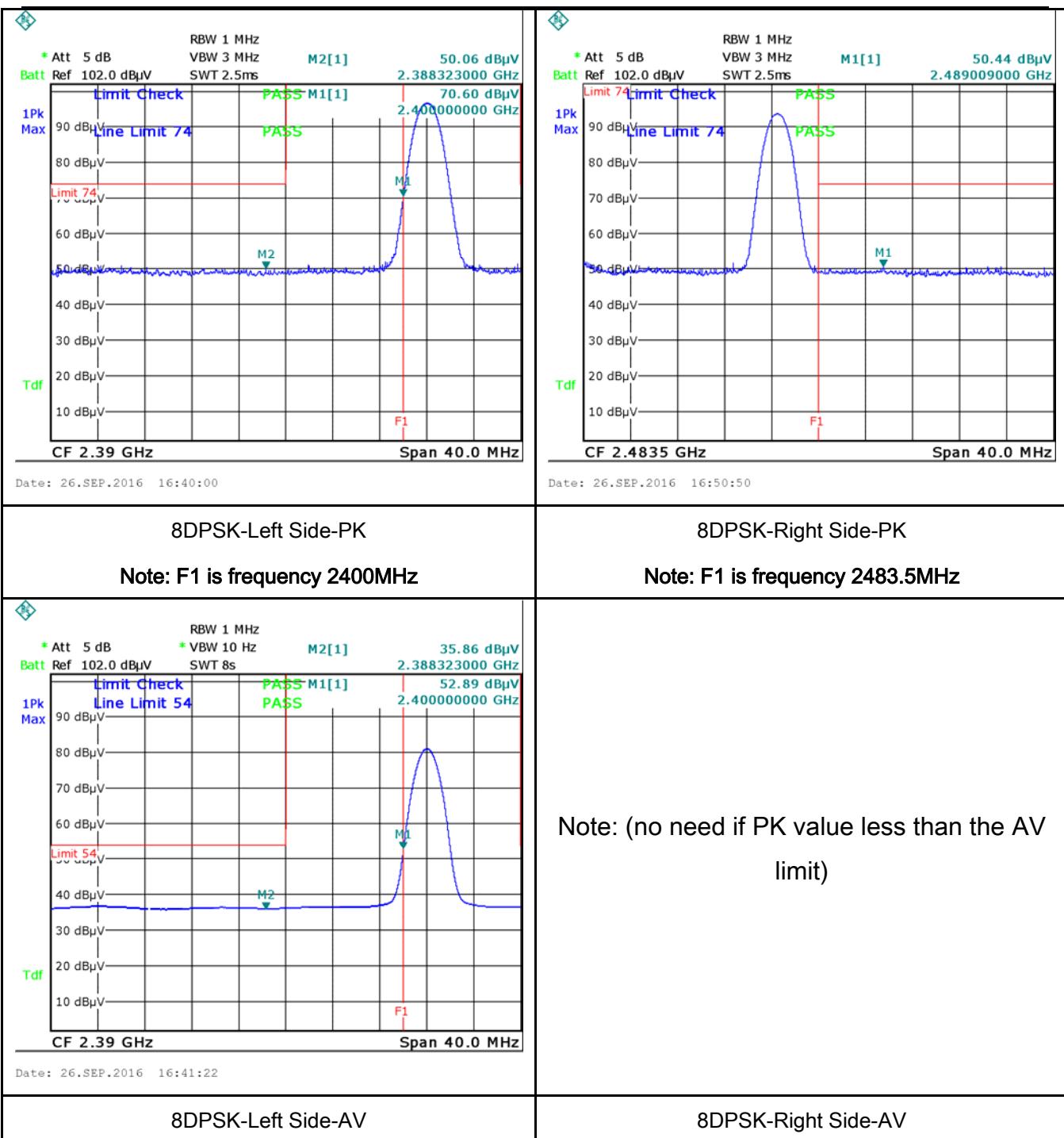
Date: 26.SEP.2016 16:37:13

Note: (no need if PK value less than the AV limit)

 $\pi/4$ DQPSK-Left Side-AV $\pi/4$ DQPSK-Right Side-AV

8-DPSK Mode:

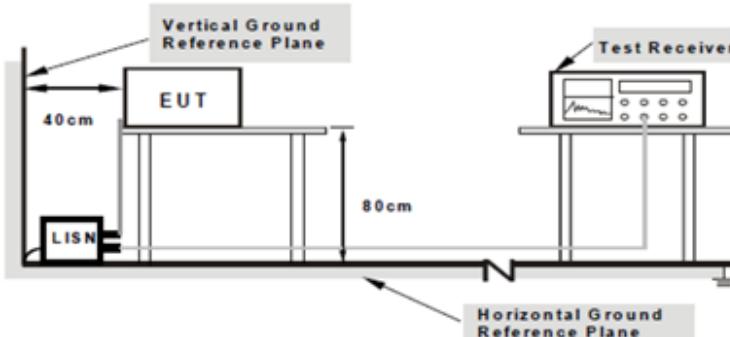
 <p>RBW 1 MHz Att 5 dB VBW 3 MHz Ref 102.0 dBμV SWT 2.5ms</p> <p>M2[1] 50.37 dBμV 2.374220000 GHz</p> <p>1Pk Max Tdf</p> <p>Limit Check: Line Limit-L 74 Limit-L 74</p> <p>PASS M1[1] PASS M2 F1</p> <p>Start 2.31 GHz Stop 2.44 GHz</p> <p>Date: 26.SEP.2016 17:15:25</p>	 <p>RBW 1 MHz Att 5 dB VBW 3 MHz Ref 102.0 dBμV SWT 2.5ms</p> <p>M1[1] 49.84 dBμV 2.489040000 GHz</p> <p>1Pk Max Tdf</p> <p>Limit Check: Line Limit-R 74 Limit-R 74</p> <p>PASS M1[1] PASS M1 F1</p> <p>Start 2.44 GHz Stop 2.5 GHz</p> <p>Date: 26.SEP.2016 17:17:22</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 Att 5 dB VBW 3 MHz Ref 102.0 dBμV SWT 2.5ms</p> <p>M2[1] 43.02 dBμV 2.375000000 GHz</p> <p>1Av Max Tdf</p> <p>Limit Check: Line Limit-L 54 Limit-L 54</p> <p>PASS M1[1] PASS M2 F1</p> <p>Start 2.31 GHz Stop 2.44 GHz</p> <p>Date: 26.SEP.2016 17:16:17</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	51%
Atmospheric Pressure	1027mbar
Test date :	September 27, 2016
Tested By :	Loren Luo

Requirement(s):

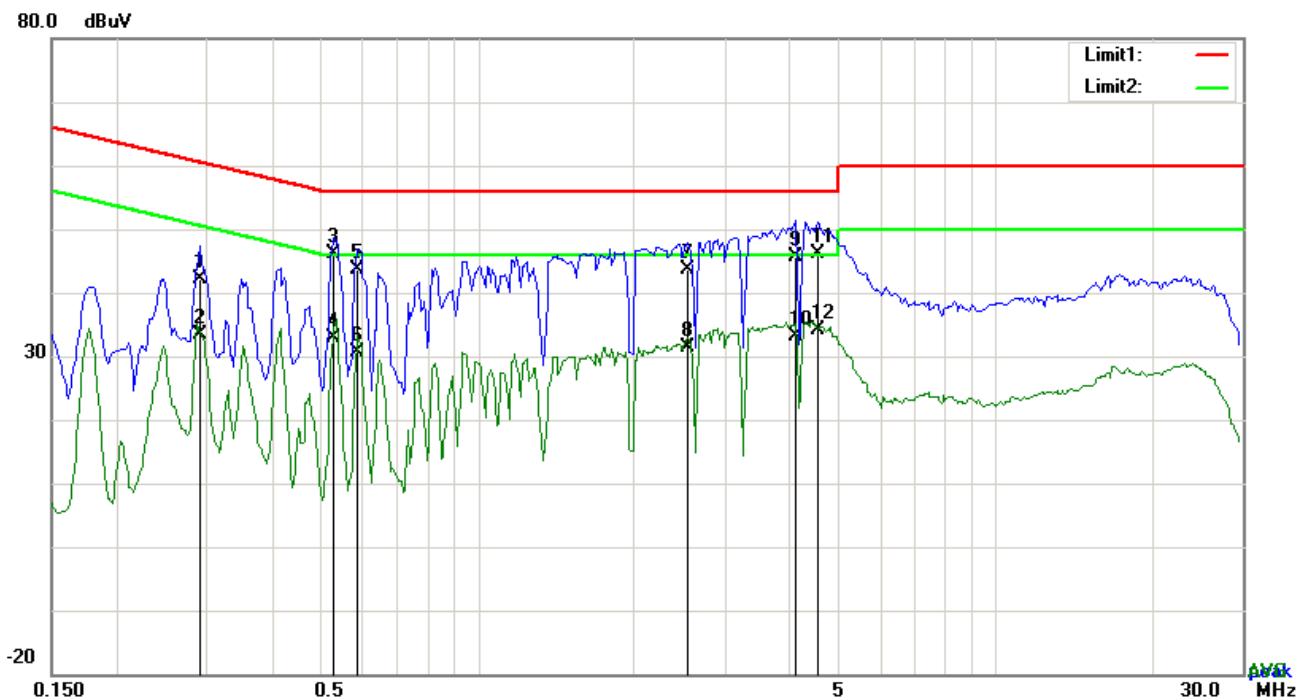
Spec	Item	Requirement	Applicable														
47CFR§15.207, RSS210 (A8.1)	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within 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>The diagram illustrates the test setup for AC power line conducted emissions. A 'Vertical Ground Reference Plane' is shown as a vertical line on the left. A 'Horizontal Ground Reference Plane' is shown as a horizontal line at the bottom. An 'EUT' (Equipment Under Test) is placed on a table. A 'LISN' (Line Impedance Stabilization Network) is connected between the EUT and the power source. A 'Test Receiver' is connected to the LISN. The distance between the LISN and the EUT is 40 cm. The distance between the LISN and the test receiver is 80 cm. The LISN is also connected to the horizontal ground reference plane.</p> <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 																

	<p>coaxial cable.</p> <ol style="list-style-type: none"> 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

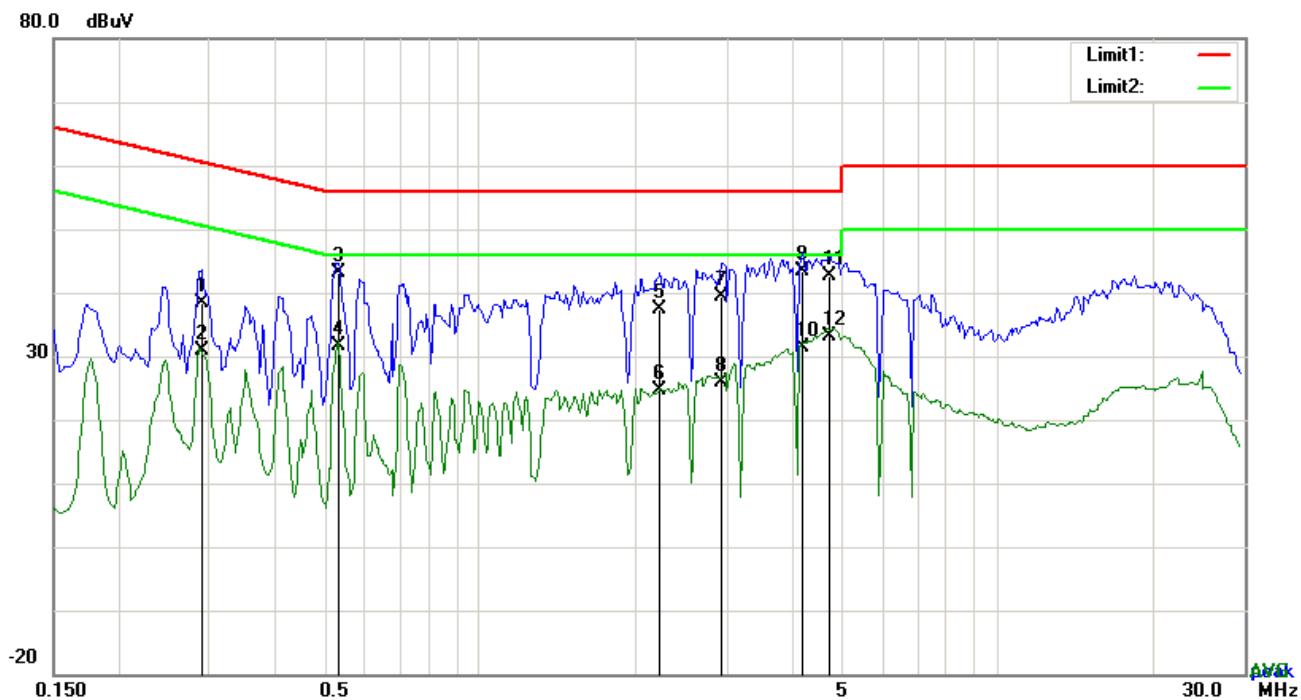


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.2904	32.13	QP	10.03	42.16	60.51	-18.35
2	L1	0.2904	23.33	AVG	10.03	33.36	50.51	-17.15
3	L1	0.5244	36.08	QP	10.03	46.11	56.00	-9.89
4	L1	0.5244	22.76	AVG	10.03	32.79	46.00	-13.21
5	L1	0.5829	33.72	QP	10.03	43.75	56.00	-12.25
6	L1	0.5829	20.50	AVG	10.03	30.53	46.00	-15.47
7	L1	2.5524	33.51	QP	10.05	43.56	56.00	-12.44
8	L1	2.5524	21.37	AVG	10.05	31.42	46.00	-14.58
9	L1	4.0998	35.62	QP	10.07	45.69	56.00	-10.31
10	L1	4.0998	23.03	AVG	10.07	33.10	46.00	-12.90
11	L1	4.5405	36.12	QP	10.07	46.19	56.00	-9.81
12	L1	4.5405	24.15	AVG	10.07	34.22	46.00	-11.78

Test Mode: Bluetooth Mode

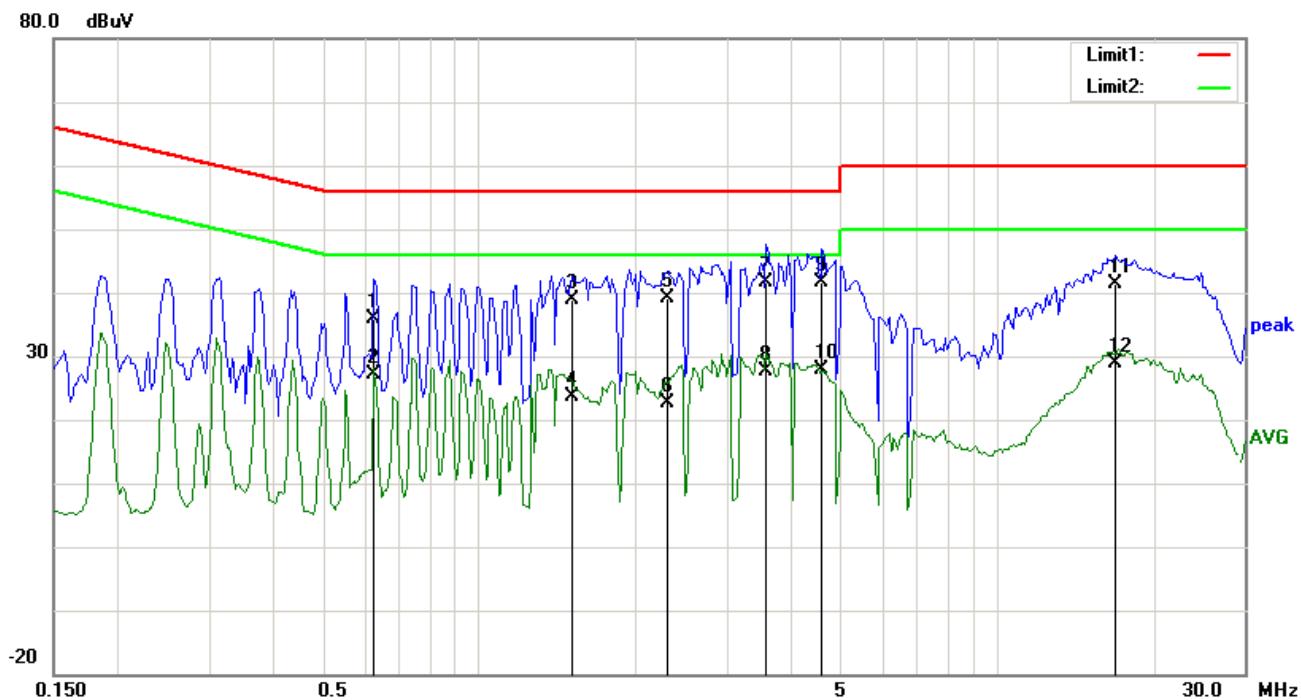


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.2904	28.24	QP	10.02	38.26	60.51	-22.25
2	N	0.2904	20.90	AVG	10.02	30.92	50.51	-19.59
3	N	0.5322	33.07	QP	10.02	43.09	56.00	-12.91
4	N	0.5322	21.56	AVG	10.02	31.58	46.00	-14.42
5	N	2.2287	27.41	QP	10.04	37.45	56.00	-18.55
6	N	2.2287	14.49	AVG	10.04	24.53	46.00	-21.47
7	N	2.9268	29.24	QP	10.05	39.29	56.00	-16.71
8	N	2.9268	15.76	AVG	10.05	25.81	46.00	-20.19
9	N	4.1973	33.39	QP	10.06	43.45	56.00	-12.55
10	N	4.1973	21.25	AVG	10.06	31.31	46.00	-14.69
11	N	4.7433	32.57	QP	10.07	42.64	56.00	-13.36
12	N	4.7433	23.12	AVG	10.07	33.19	46.00	-12.81

Test Mode: Bluetooth Mode

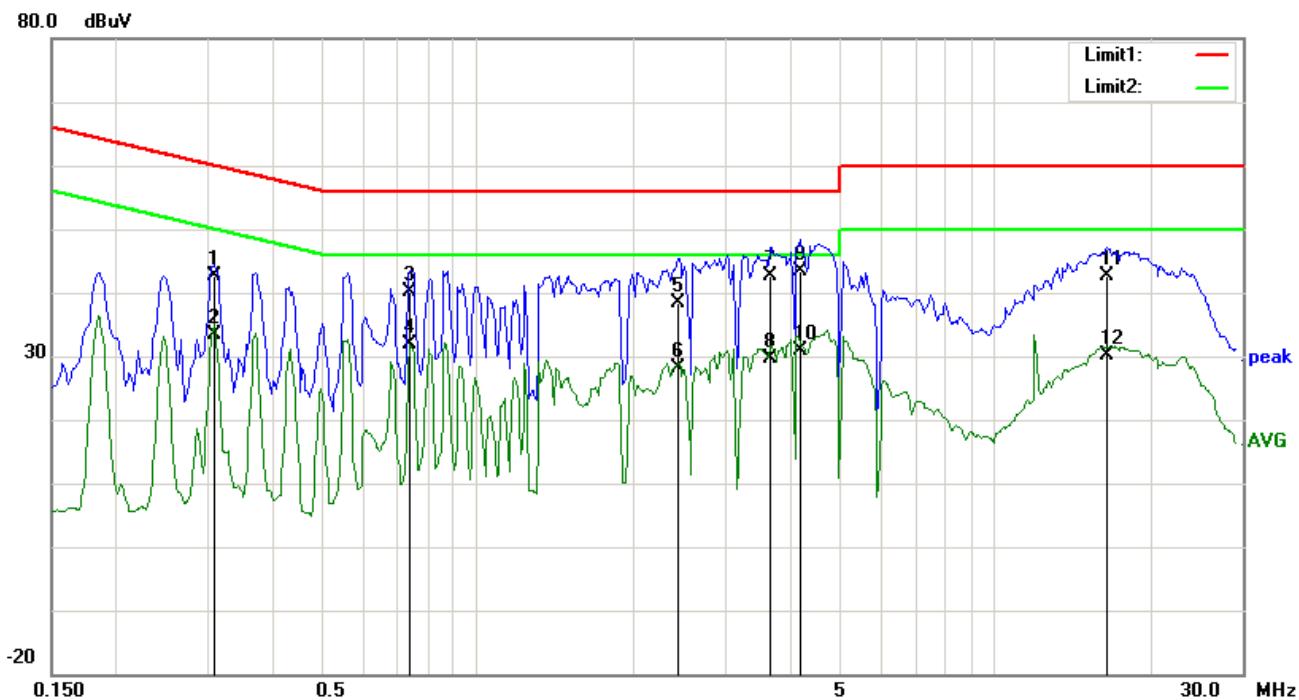


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.6219	25.93	QP	10.03	35.96	56.00	-20.04
2	L1	0.6219	17.02	AVG	10.03	27.05	46.00	-18.95
3	L1	1.5033	28.82	QP	10.04	38.86	56.00	-17.14
4	L1	1.5033	13.48	AVG	10.04	23.52	46.00	-22.48
5	L1	2.3067	29.02	QP	10.05	39.07	56.00	-16.93
6	L1	2.3067	12.49	AVG	10.05	22.54	46.00	-23.46
7	L1	3.5655	31.56	QP	10.06	41.62	56.00	-14.38
8	L1	3.5655	17.55	AVG	10.06	27.61	46.00	-18.39
9	L1	4.5912	31.50	QP	10.07	41.57	56.00	-14.43
10	L1	4.5912	17.80	AVG	10.07	27.87	46.00	-18.13
11	L1	16.8918	31.03	QP	10.25	41.28	60.00	-18.72
12	L1	16.8918	18.73	AVG	10.25	28.98	50.00	-21.02

Test Mode: Bluetooth Mode



Test Data

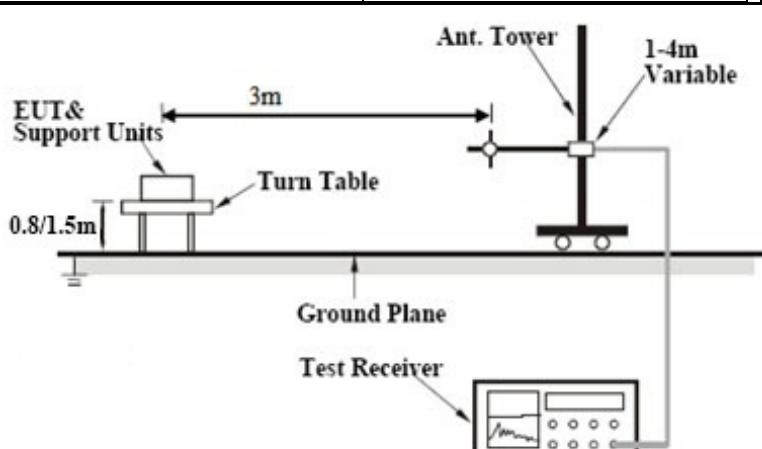
Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.3099	32.65	QP	10.02	42.67	59.97	-17.30
2	N	0.3099	23.30	AVG	10.02	33.32	49.97	-16.65
3	N	0.7389	30.01	QP	10.02	40.03	56.00	-15.97
4	N	0.7389	21.74	AVG	10.02	31.76	46.00	-14.24
5	N	2.4471	28.36	QP	10.04	38.40	56.00	-17.60
6	N	2.4471	18.08	AVG	10.04	28.12	46.00	-17.88
7	N	3.6708	32.52	QP	10.06	42.58	56.00	-13.42
8	N	3.6708	19.64	AVG	10.06	29.70	46.00	-16.30
9	N	4.1856	33.36	QP	10.06	43.42	56.00	-12.58
10	N	4.1856	20.89	AVG	10.06	30.95	46.00	-15.05
11	N	16.4589	32.49	QP	10.22	42.71	60.00	-17.29
12	N	16.4589	19.95	AVG	10.22	30.17	50.00	-19.83

6.9 Radiated Spurious Emissions & Restricted Band

Temperature	24°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	September 27, 2016
Tested By :	Loren Luo

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 spurious 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 '1-4m Variable' height indicator. A 'Test Receiver' is connected to the tower and is shown with a waveform display. The distance between the EUT and the turn table is 0.8/1.5m, and the distance between the turn table and the antenna tower is 3m.</p>											
Procedure		<ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. 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: 											

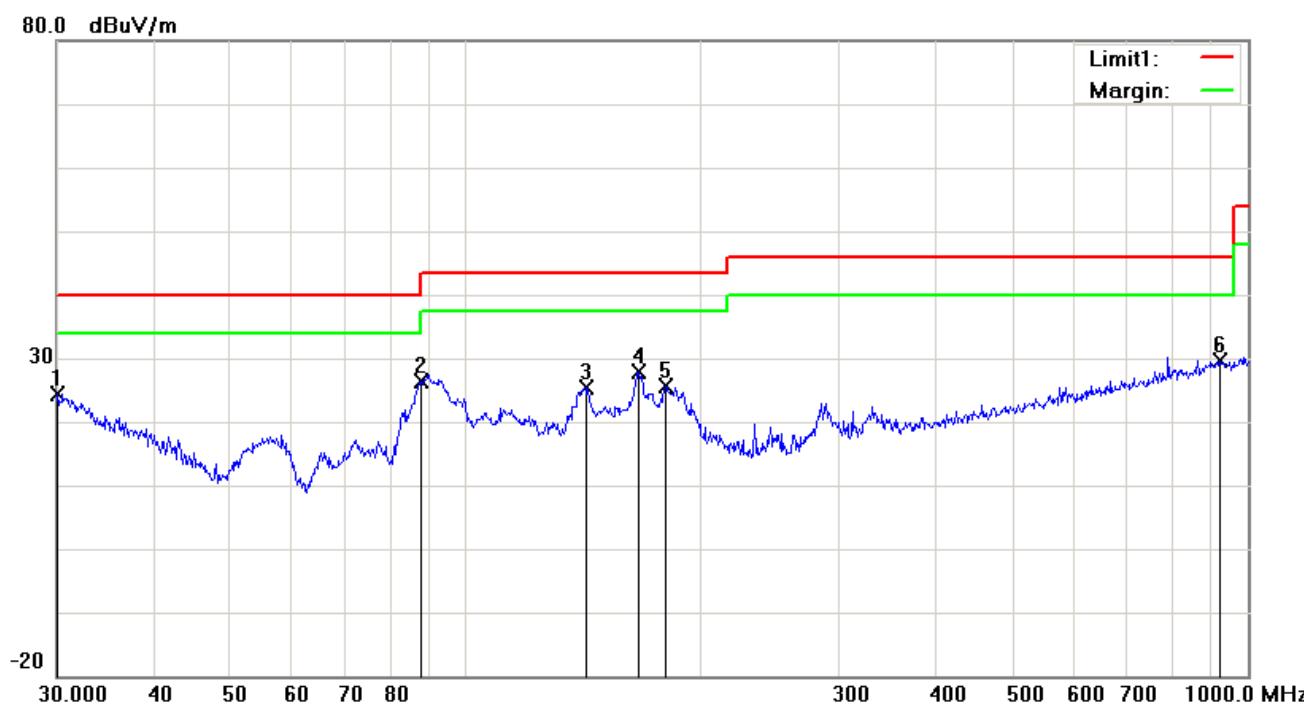
	<p>a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</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	30.1054	24.79	peak	-0.34	24.45	40.00	-15.55	100	47
2	H	87.7248	39.73	peak	-13.43	26.30	40.00	-13.70	100	31
3	H	142.3244	33.93	peak	-8.50	25.43	43.50	-18.07	100	83
4	H	166.6514	36.69	peak	-8.82	27.87	43.50	-15.63	100	360
5	H	180.0165	35.48	peak	-9.89	25.59	43.50	-17.91	100	94
6	H	919.2866	24.66	peak	4.87	29.53	46.00	-16.47	100	25

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency (MHz)	Readin g (dBuV/ m)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	V	30.4238	30.71	peak	-0.58	30.13	40.00	-9.87	100	69
2	V	56.7917	46.26	peak	-13.98	32.28	40.00	-7.72	100	351
3	V	71.5806	43.08	peak	-13.65	29.43	40.00	-10.57	100	19
4	V	88.9639	49.70	QP	-13.40	36.30	43.50	-7.20	100	28
5	V	141.8262	40.06	peak	-8.52	31.54	43.50	-11.96	100	136
6	V	152.1297	38.43	peak	-8.38	30.05	43.50	-13.45	100	47

Above 1GHz

Test Mode:	Transmitting Mode
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Low Channel: GFSK Mode (Worst Case) (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	38.67	AV	V	33.67	6.86	32.66	46.54	54	-7.46
4804	38.42	AV	H	33.67	6.86	32.66	46.29	54	-7.71
4804	47.68	PK	V	33.67	6.86	32.66	55.55	74	-18.45
4804	47.56	PK	H	33.67	6.86	32.66	55.43	74	-18.57
17794	24.59	AV	V	45.03	11.21	32.38	48.45	54	-5.55
17794	24.11	AV	H	45.03	11.21	32.38	47.97	54	-6.03
17794	41.02	PK	V	45.03	11.21	32.38	64.88	74	-9.12
17794	40.38	PK	H	45.03	11.21	32.38	64.24	74	-9.76

Middle Channel: GFSK Mode (Worst Case) (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	38.78	AV	V	33.71	6.95	32.74	46.7	54	-7.30
4882	38.54	AV	H	33.71	6.95	32.74	46.46	54	-7.54
4882	48.06	PK	V	33.71	6.95	32.74	55.98	74	-18.02
4882	47.55	PK	H	33.71	6.95	32.74	55.47	74	-18.53
17809	24.67	AV	V	45.15	11.18	32.41	48.59	54	-5.41
17809	24.18	AV	H	45.15	11.18	32.41	48.1	54	-5.90
17809	41.23	PK	V	45.15	11.18	32.41	65.15	74	-8.85
17809	40.35	PK	H	45.15	11.18	32.41	64.27	74	-9.73

High Channel: GFSK Mode (Worst Case) (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	38.67	AV	V	33.9	6.76	32.74	46.59	54	-7.41
4960	38.42	AV	H	33.9	6.76	32.74	46.34	54	-7.66
4960	48.35	PK	V	33.9	6.76	32.74	56.27	74	-17.73
4960	47.86	PK	H	33.9	6.76	32.74	55.78	74	-18.22
17798	24.59	AV	V	45.22	11.35	32.38	48.78	54	-5.22
17798	24.01	AV	H	45.22	11.35	32.38	48.2	54	-5.80
17798	41.33	PK	V	45.22	11.35	32.38	65.52	74	-8.48
17798	41.08	PK	H	45.22	11.35	32.38	65.27	74	-8.73

Note:

 1, The testing has been conformed to $10*2480\text{MHz}=24,800\text{MHz}$

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.

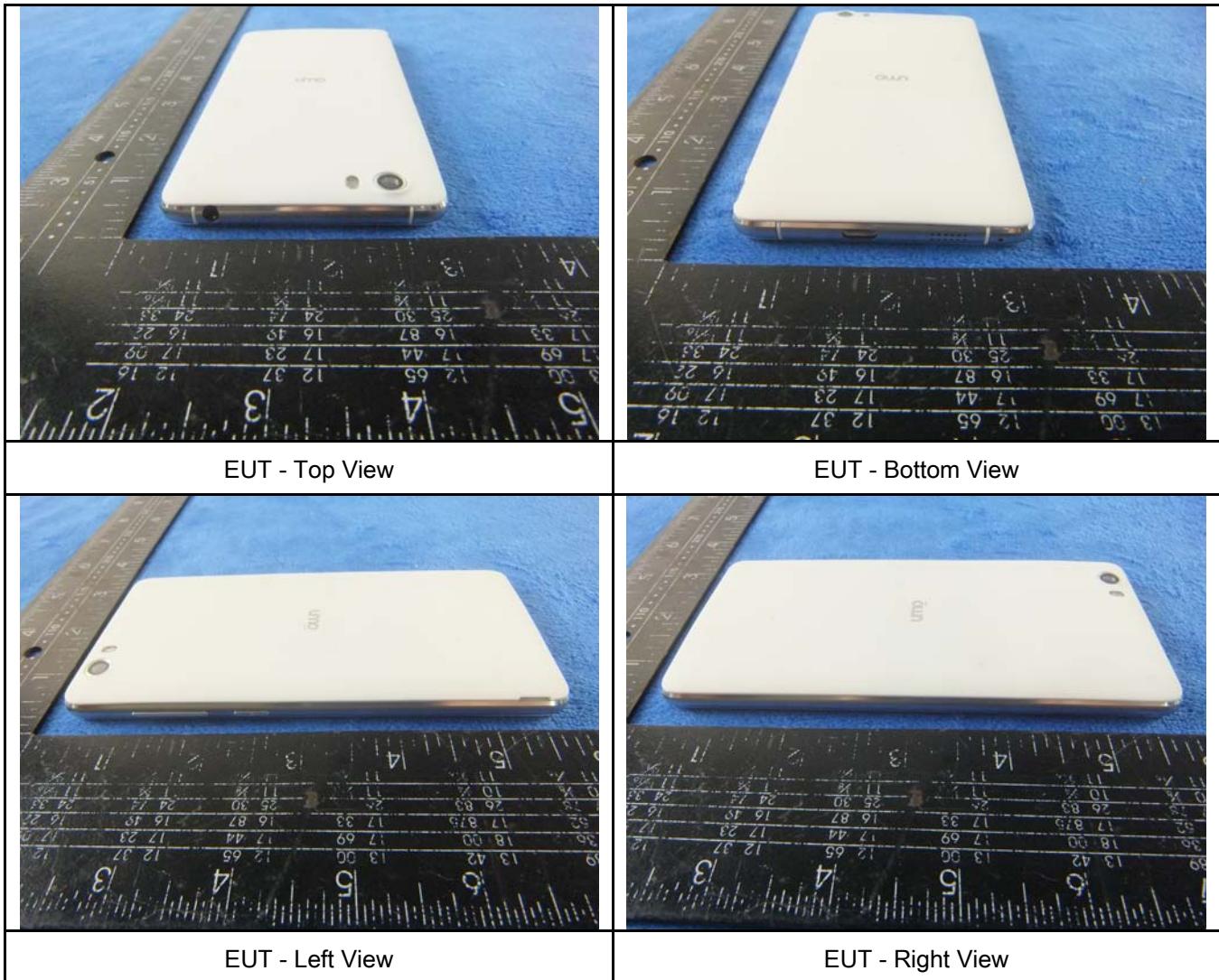
Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/19/2015	11/18/2016	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>

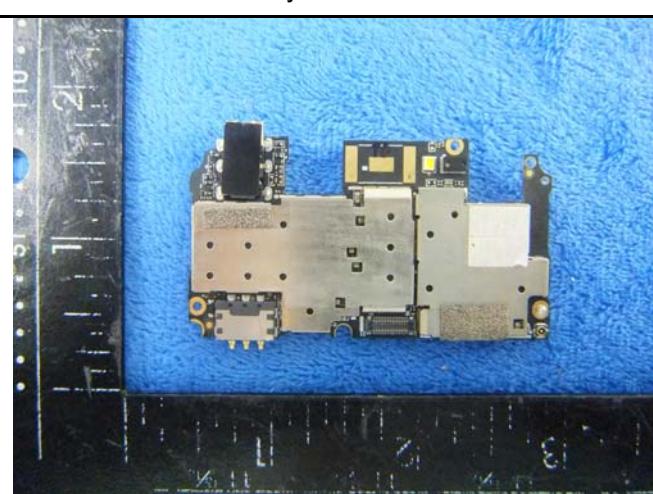
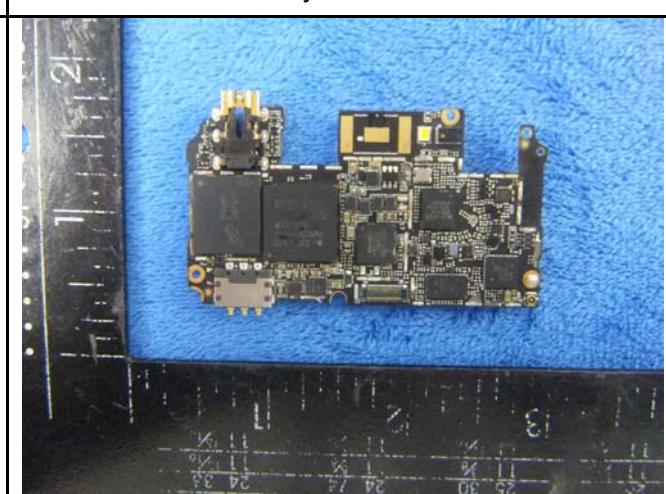
Annex B. EUT And Test Setup Photographs

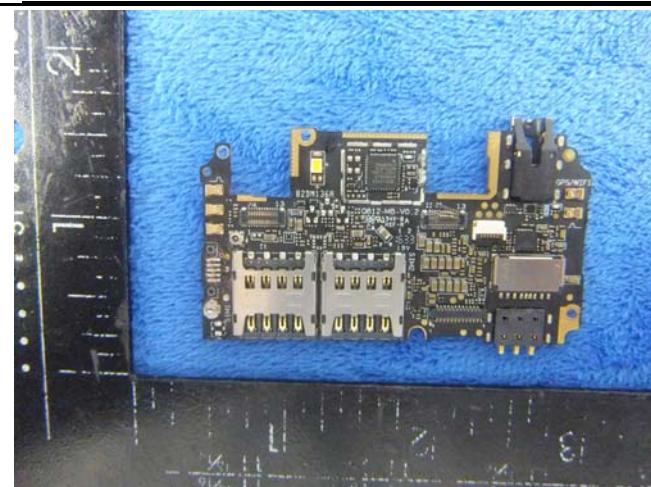
Annex B.i. Photograph: EUT External Photo



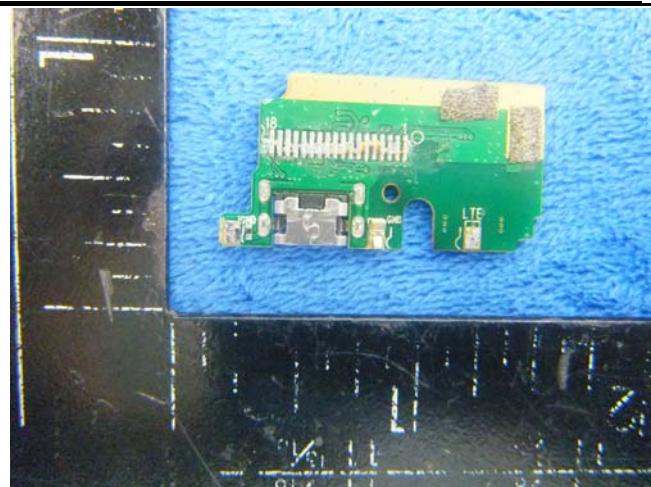


Annex B.ii. Photograph: EUT Internal Photo

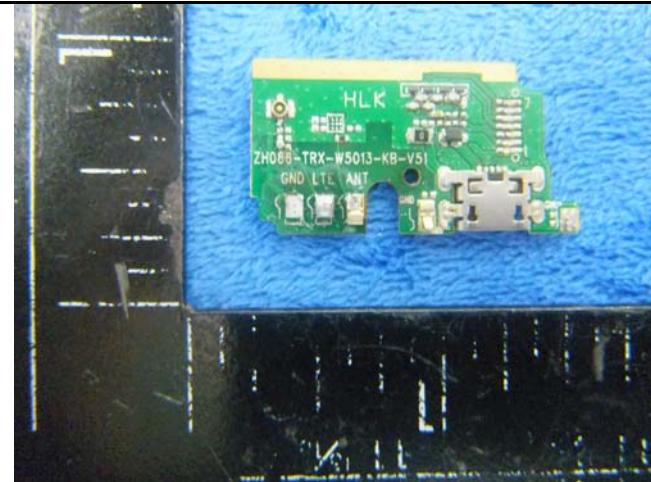
	
<p>Cover Off - Top View 1</p>	<p>Cover Off - Top View 2</p>
	
<p>Battery - Front View</p>	<p>Battery - Rear View</p>
	
<p>Mainboard with Shielding - Front View</p>	<p>Mainboard without Shielding - Front View</p>



Mainboard - Rear View



USB board – Front View



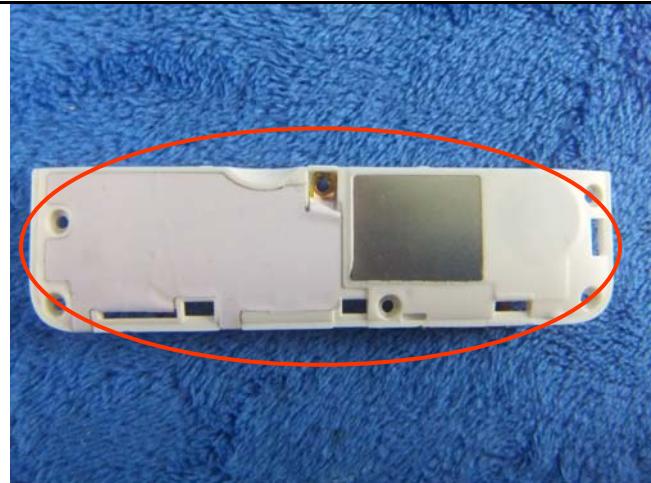
USB board - Rear View



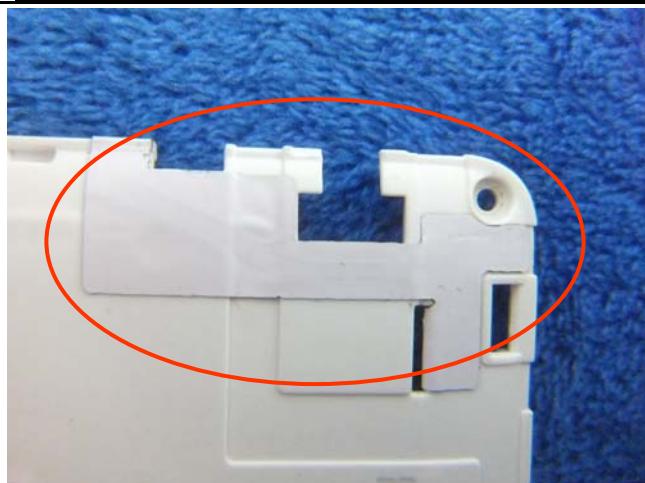
LCD – Front View



LCD – Rear View



GSM/PCS/UMTS-FDD Antenna View

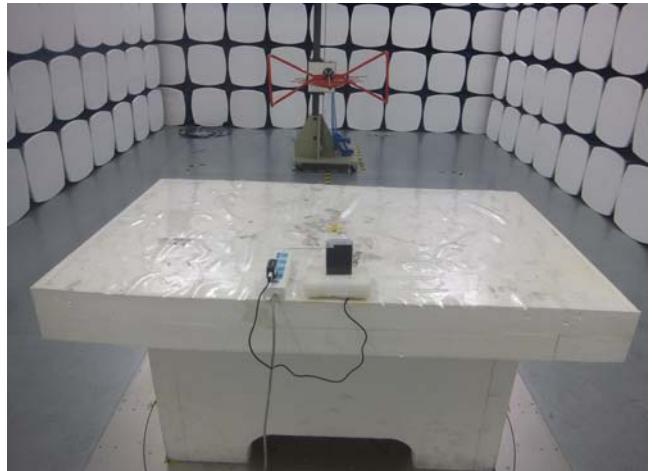
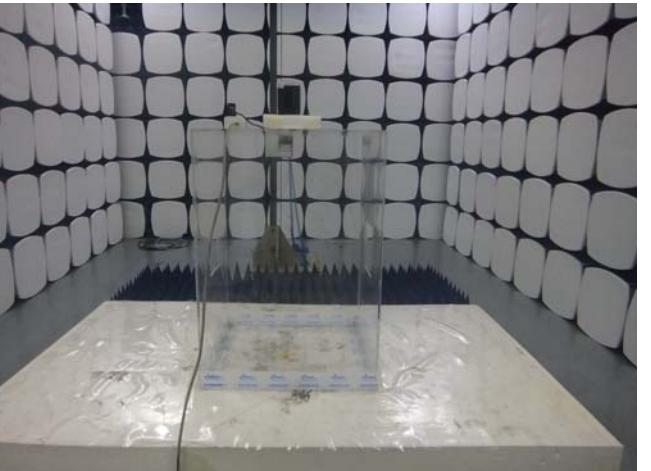


WIFI/BT/BLE/GPS - Antenna View



LTE Antenna View

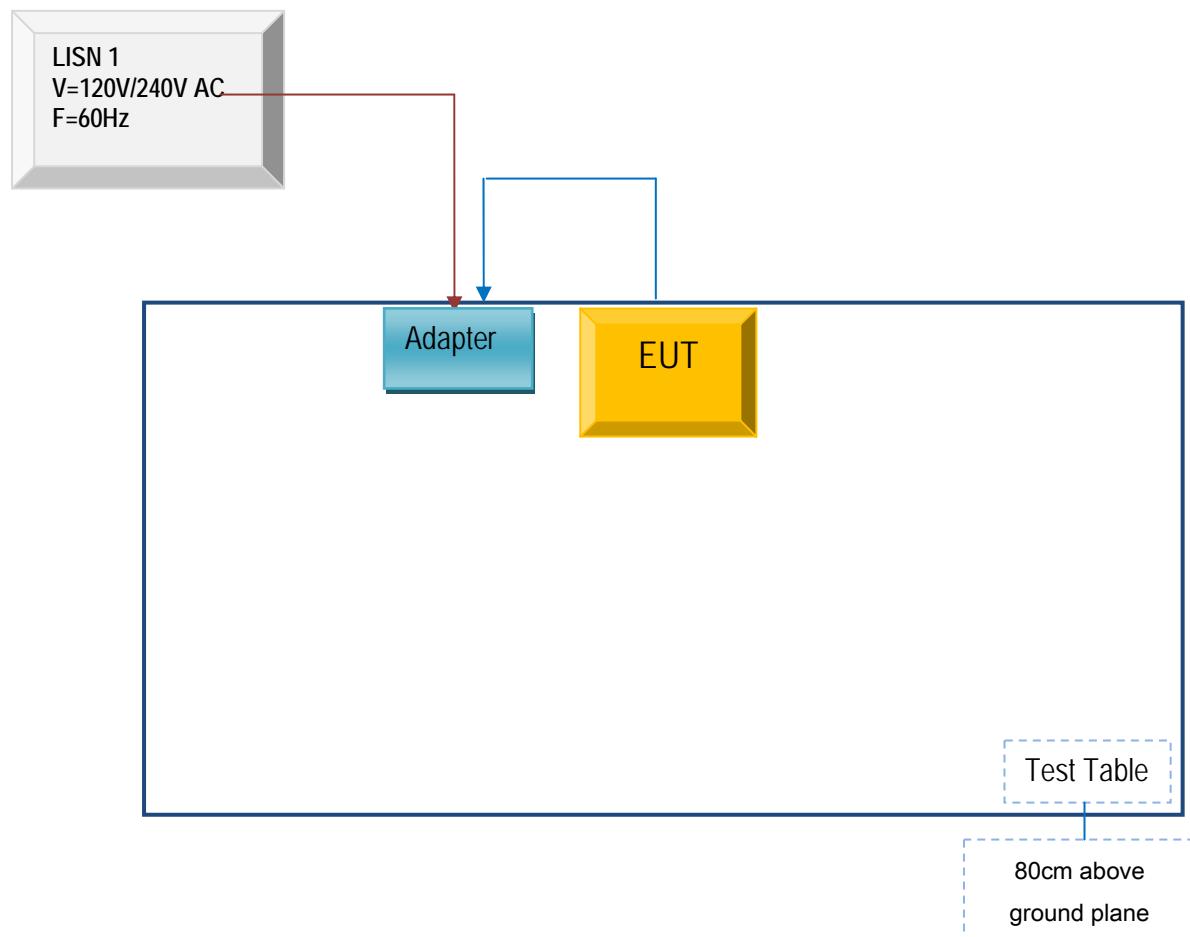
Annex B.iii. Photograph: Test Setup Photo

 A photograph showing a wooden table in a test chamber. On the table, there is a white rectangular device connected to a power source and some cables. The chamber floor has some equipment and cables visible.	 A photograph showing a side view of the test setup. The white rectangular device is on the wooden table, and the test chamber's interior walls and floor are visible.
Conducted Emissions Test Setup Front View	Conducted Emissions Test Setup Side View
 A photograph showing a white rectangular table in a test chamber. On the table, there is a small device connected to a power source. The chamber floor is covered with white plastic sheeting.	 A photograph showing a white rectangular table in a test chamber. A clear plastic enclosure is positioned above the table, and a device is mounted inside it. The chamber floor is covered with white plastic sheeting.
Radiated Spurious Emissions Test Setup Below 1GHz	Radiated Spurious Emissions Test Setup Above 1GHz

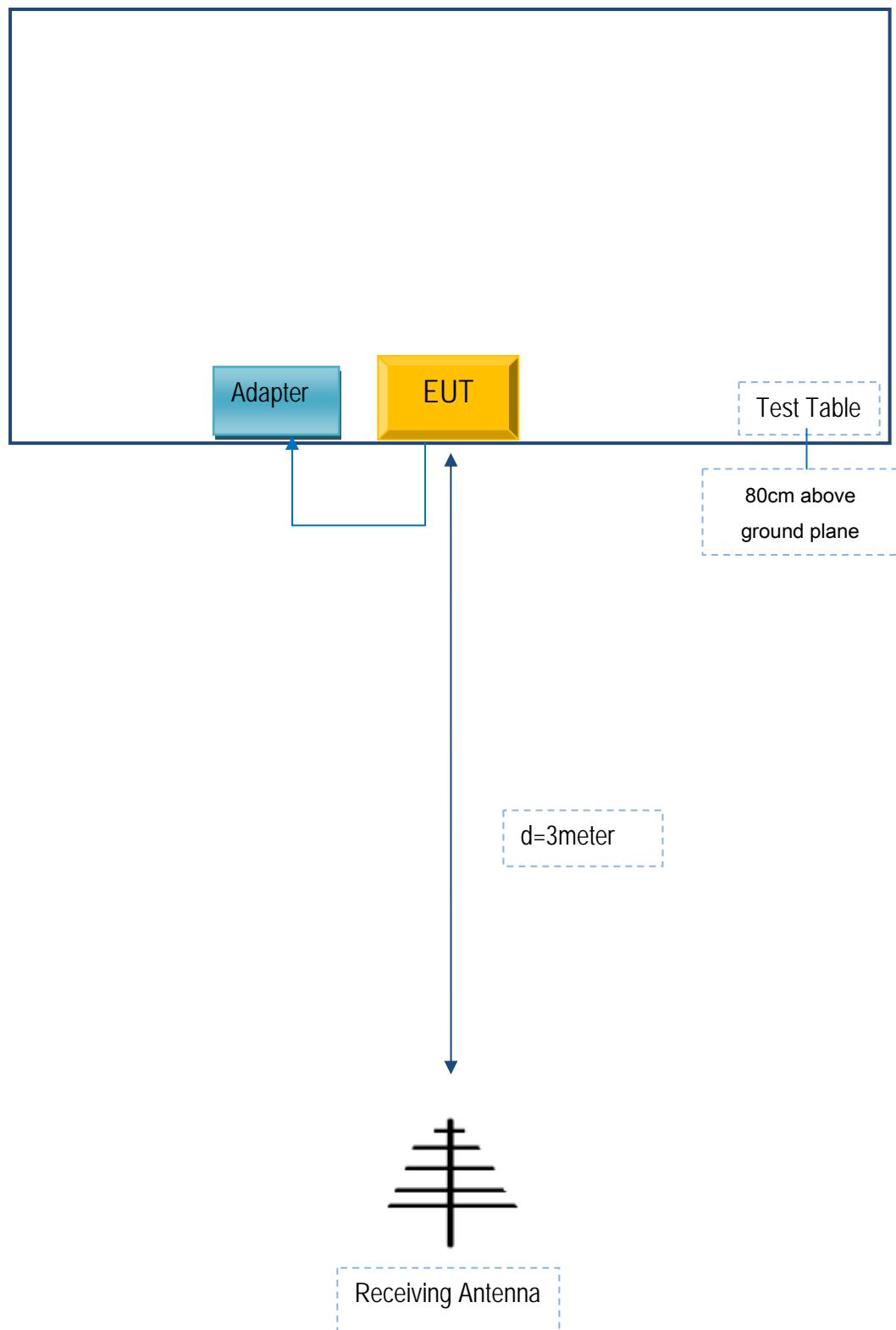
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

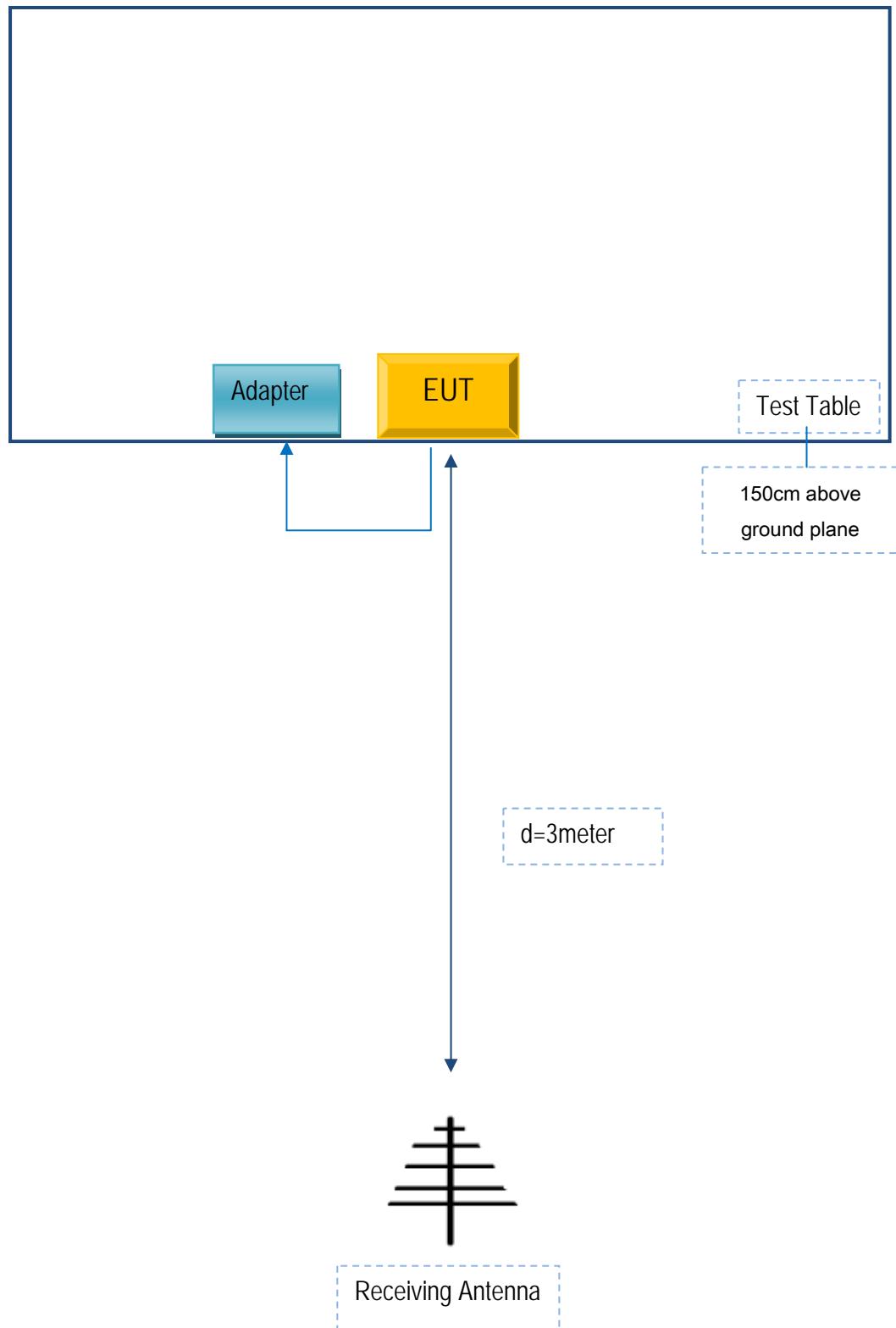
Block Configuration Diagram for AC Line Conducted Emissions



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.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
NEG TECHNOLOGY CO., LIMITED	Adapter	SMART O2	S025469

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	S025469

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

Please see the attachment

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Annex E. DECLARATION OF SIMILARITY

N/A