
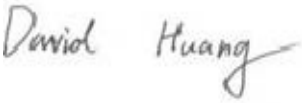



# RF TEST REPORT



Report No.: 16071064-FCC-R1

Supersede Report No.: N/A

Applicant	AOC	
Product Name	Tablet PC	
Model No.	A727	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2015, ANSI C63.10: 2013	
Test Date	September 02 to 07, 2016	
Issue Date	September 08, 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 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

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
16071064-FCC-R1	NONE	Original	September 08, 2016

## 2. Customer information

Applicant Name	AOC
Applicant Add	14F-5, NO.258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan
Manufacturer	China Great Wall Computer Shenzhen Co., Ltd.
Manufacturer Add	No.Great Wall Computer Industrial Park,Bao Shi East Road,Bao' an Bistrict,Shenzhen,P.R.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:	Tablet PC
Main Model:	A727
Serial Model:	N/A
Date EUT received:	September 01, 2016
Test Date(s):	September 02 to 07, 2016
Equipment Category :	DSS
Antenna Gain:	Bluetooth/BLE/WIFI: 0dBi
Antenna Type:	PIFA antenna
Type of Modulation:	802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi$ /4DQPSK, 8DPSK BLE: GFSK
RF Operating Frequency (ies):	WIFI: 802.11b/g/n(20M): 2412-2462 MHz Bluetooth& BLE: 2402-2480 MHz
Max. Output Power:	6.821dBm
Number of Channels:	WIFI :802.11b/g/n(20M): 11CH Bluetooth: 79CH BLE: 40CH
Port:	Earphone Port, USB Port , SD Card Port

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Adapter:  
Model: SC/8WI050150US  
Input: 100-240V~50/60Hz;0.5A  
Output: 5.0V,1500mA  
Battery:  
Spec: 3.7V,2500mAh(9.25Wh)

Input Power:

Trade Name : AOC

FCC ID: 2AEB5-A727

## 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:

- 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 1 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is 0dBi .


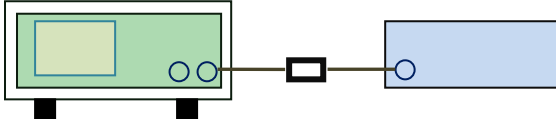
**The antenna meets up with the ANTENNA REQUIREMENT.**

**Result:** Compliance.

## 6.2 Channel Separation

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1005mbar
Test date :	September 05, 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	
Test Setup			
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> <li>- The EUT must have its hopping function enabled</li> <li>- Span = wide enough to capture the peaks of two adjacent channels</li> <li>- Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span</li> <li>- Video (or Average) Bandwidth (VBW) ≥ RBW</li> <li>- Sweep = auto</li> <li>- Detector function = peak</li> <li>- Trace = max hold</li> <li>- 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.</li> </ul>		

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

Test Data ☒ Yes ☐ N/A

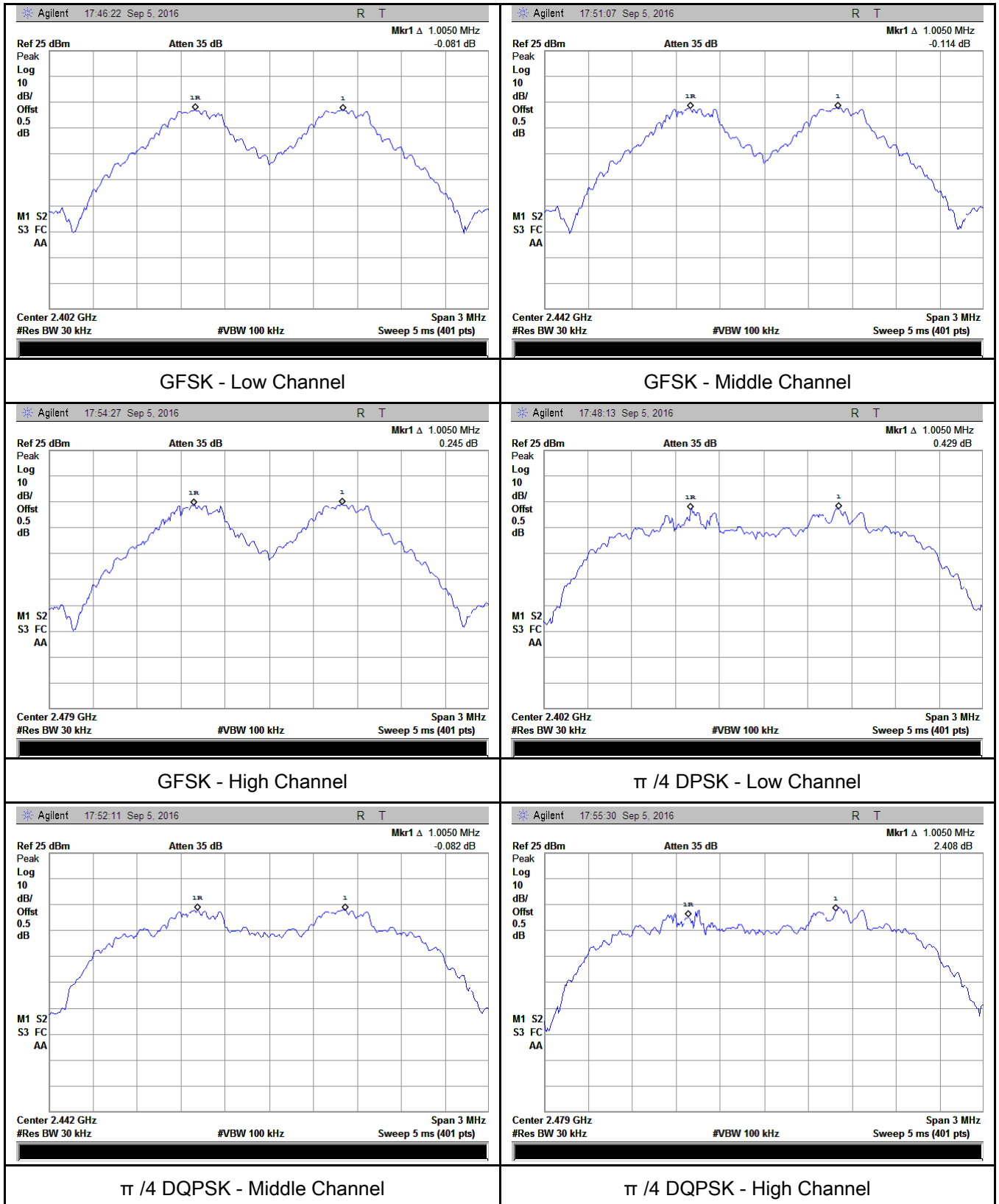
Test Plot ☒ Yes (See below) ☐ N/A

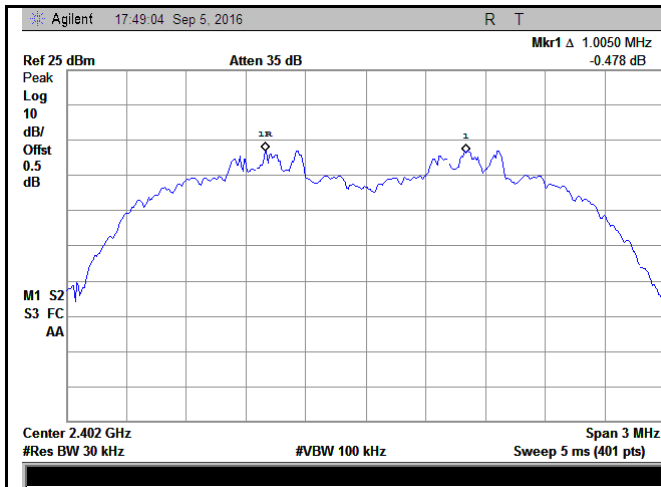
### Channel Separation measurement result

Type/ Modulation	CH	CH Frequency (MHz)	CH Separation (MHz)	Limit (MHz)	Result
CH Separation GFSK	Low Channel	2402	1.005	0.648	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.005	0.642	Pass
	Adjacency Channel	2442			
	High Channel	2480	1.005	0.641	Pass
	Adjacency Channel	2479			
CH Separation $\pi/4$ DQPSK	Low Channel	2402	1.005	0.947	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.005	0.947	Pass
	Adjacency Channel	2442			
	High Channel	2480	1.005	0.949	Pass
	Adjacency Channel	2479			
CH Separation 8DPSK	Low Channel	2402	1.005	0.953	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.005	0.959	Pass
	Adjacency Channel	2442			
	High Channel	2480	1.005	0.957	Pass
	Adjacency Channel	2479			

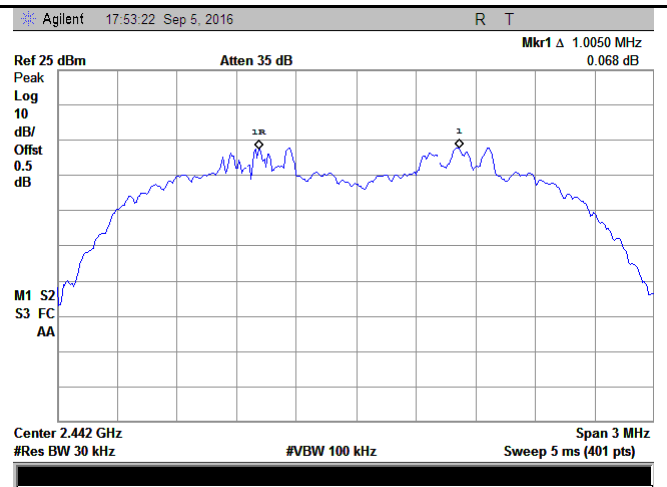
## Test Plots

### Channel Separation measurement result

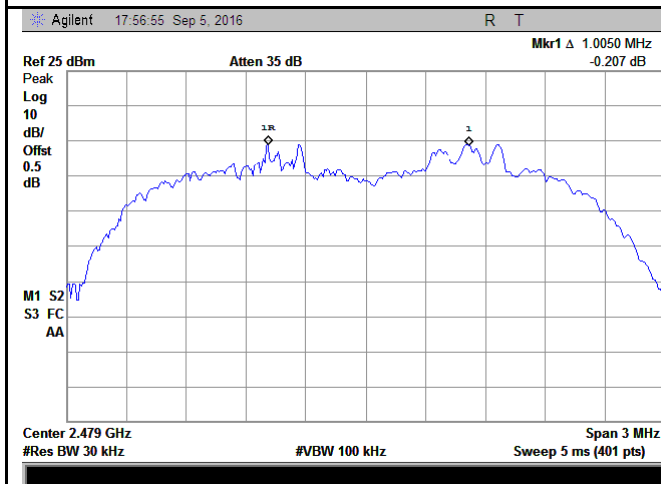




8DPSK - Low Channel



8DPSK - Middle Channel

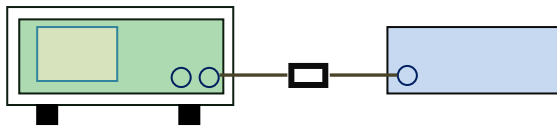


8DPSK - High Channel

### 6.3 20dB Bandwidth

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1005mbar
Test date :	September 05, 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. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> <li>- Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel</li> <li>- RBW <math>\geq</math> 1% of the 20 dB bandwidth</li> <li>- VBW <math>\geq</math> RBW</li> <li>- Sweep = auto</li> <li>- Detector function = peak</li> <li>- Trace = max hold.</li> <li>- 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</li> </ul>		

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	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

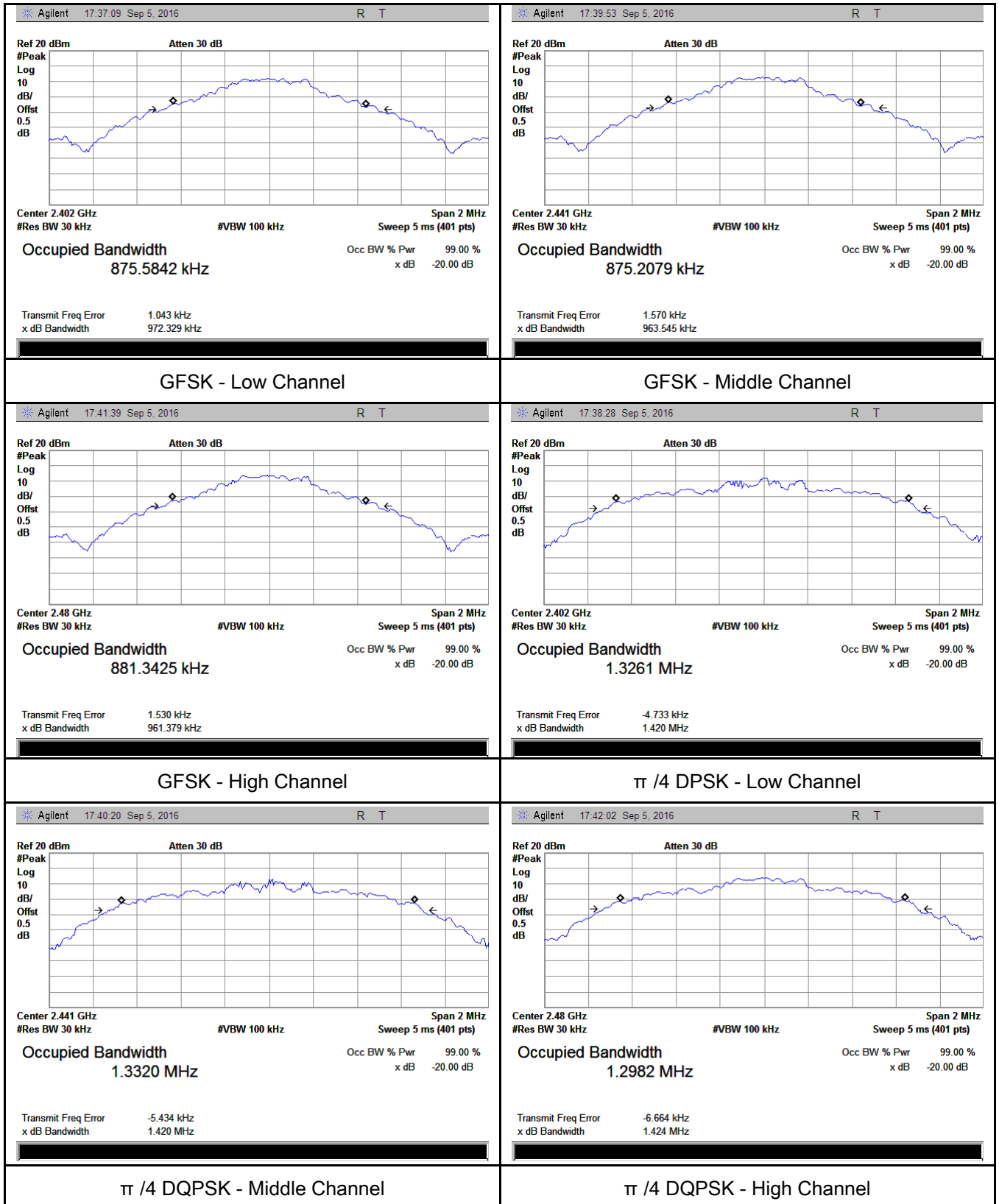
Test Plot ☒ Yes (See below) ☐ N/A

#### Measurement result

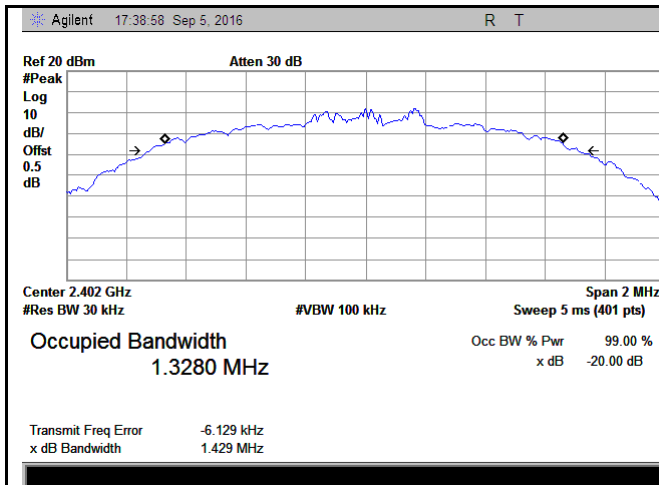
Modulation	CH	CH Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
GFSK	Low	2402	0.9723	0.8756
	Mid	2441	0.9635	0.8752
	High	2480	0.9614	0.8813
$\pi/4$ DQPSK	Low	2402	1.420	1.3261
	Mid	2441	1.420	1.3320
	High	2480	1.424	1.2982
8-DPSK	Low	2402	1.429	1.3280
	Mid	2441	1.438	1.3266
	High	2480	1.436	1.3139

## Test Plots

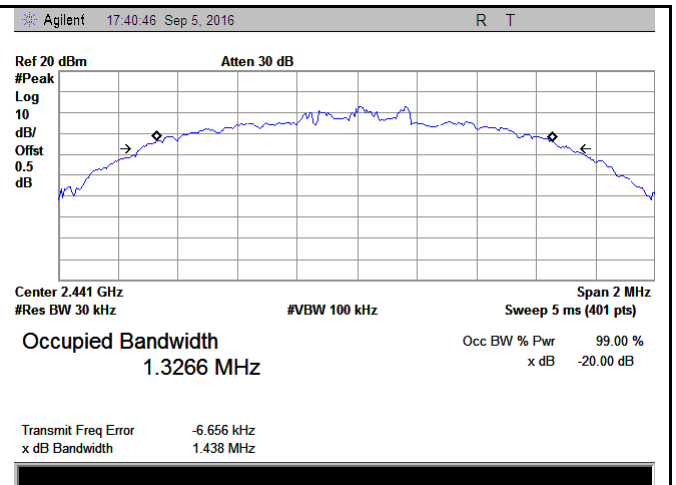
### 20dB Bandwidth measurement result



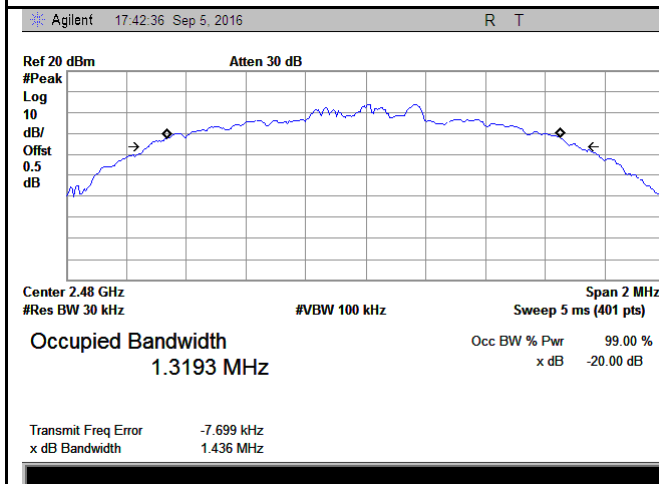




8DPSK - Low Channel



8DPSK - Middle Channel

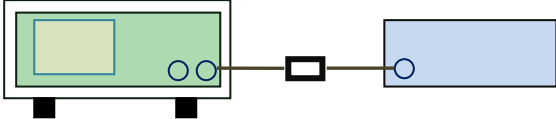


8DPSK - High Channel

## 6.4 Peak Output Power

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1005mbar
Test date :	September 05, 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. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> <li>- Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel</li> <li>- RBW <math>&gt;</math> the 20 dB bandwidth of the emission being measured</li> <li>- VBW <math>\geq</math> RBW</li> <li>- Sweep = auto</li> <li>- Detector function = peak</li> <li>- Trace = max hold</li> <li>- Allow the trace to stabilize.</li> </ul>		

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	<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

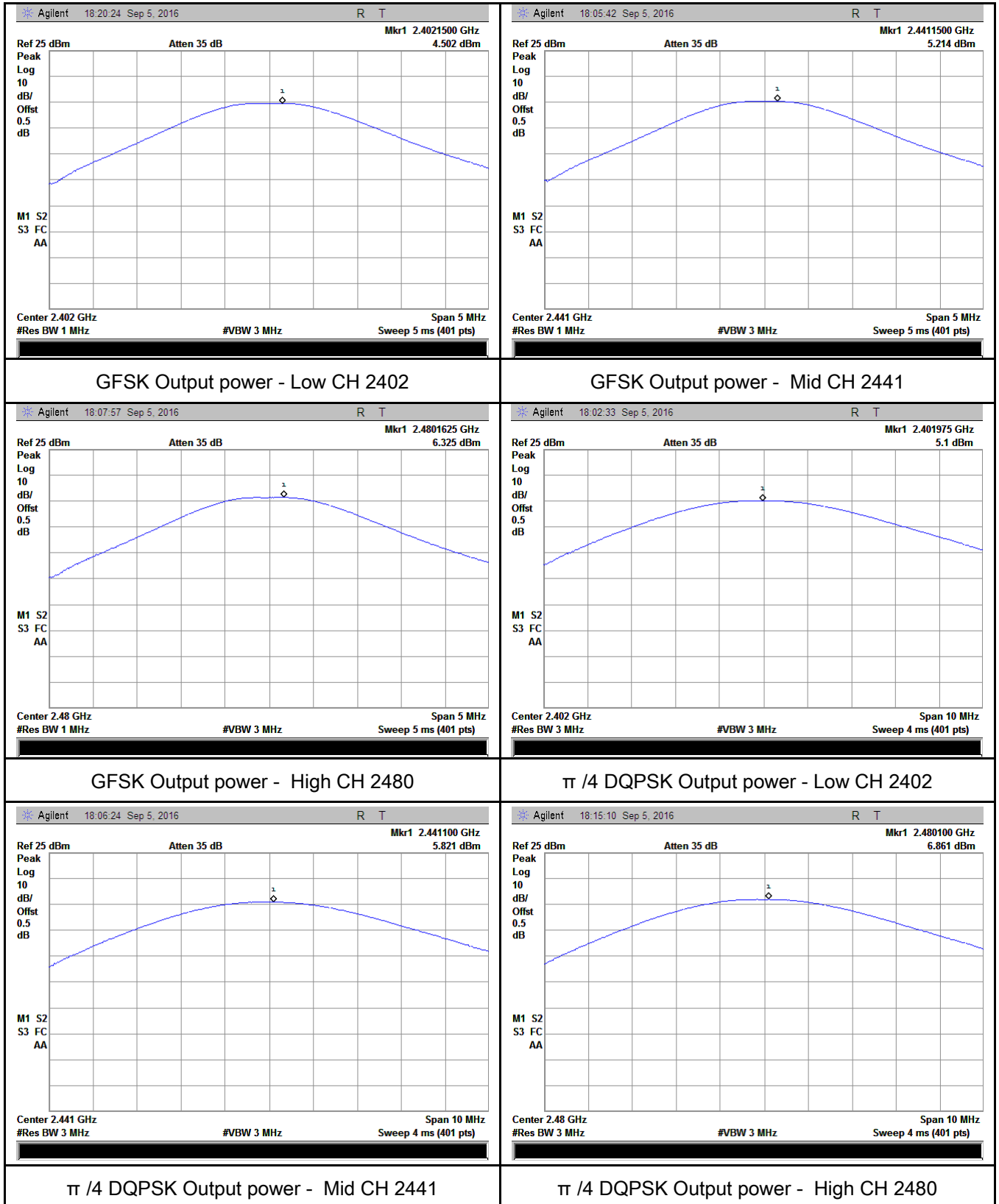
Test Plot ☒ Yes (See below) ☐ N/A

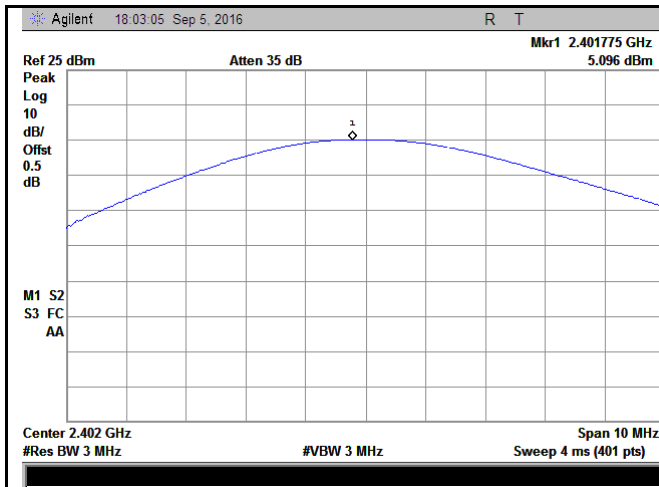
#### Peak Output Power measurement result

Type	Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power	GFSK	Low	2402	4.502	1000	Pass
		Mid	2441	5.214	1000	Pass
		High	2480	6.325	1000	Pass
	$\pi/4$ DQPSK	Low	2402	5.100	125	Pass
		Mid	2441	5.821	125	Pass
		High	2480	<b>6.861</b>	125	Pass
	8-DPSK	Low	2402	5.096	125	Pass
		Mid	2441	5.658	125	Pass
		High	2480	6.790	125	Pass

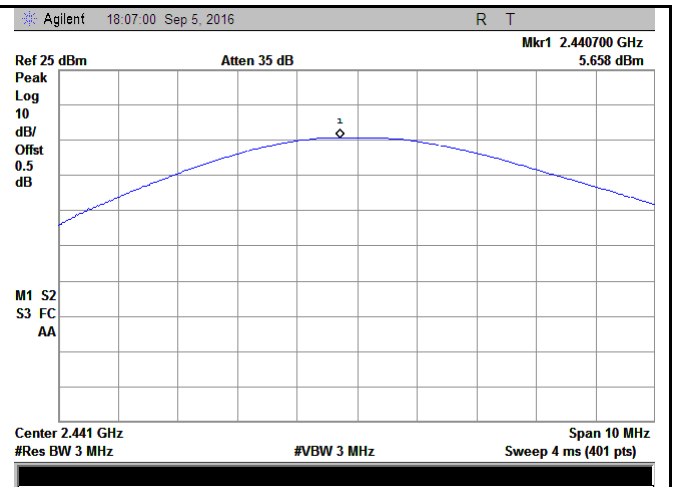
## Test Plots

### Output Power measurement result

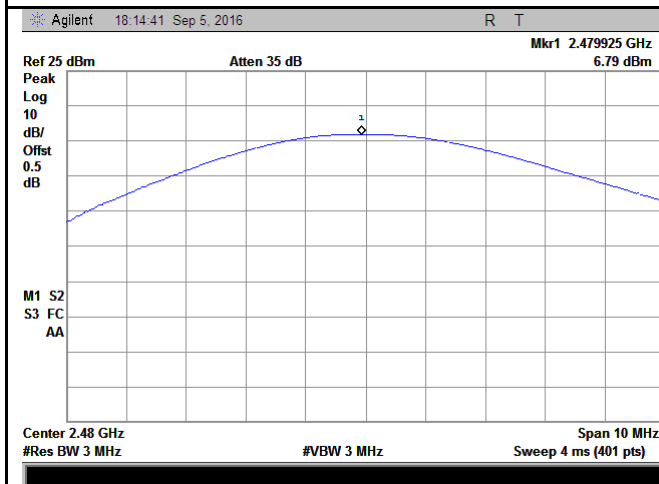




8DPSK Output power - Low CH 2402



8DPSK Output power - Mid CH 2441

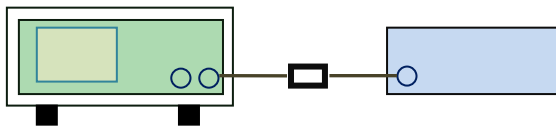


8DPSK Output power - High CH 2480

## 6.5 Number of Hopping Channel

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	September 06, 2016
Tested By :	Loren Luo

### Requirement(s):

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

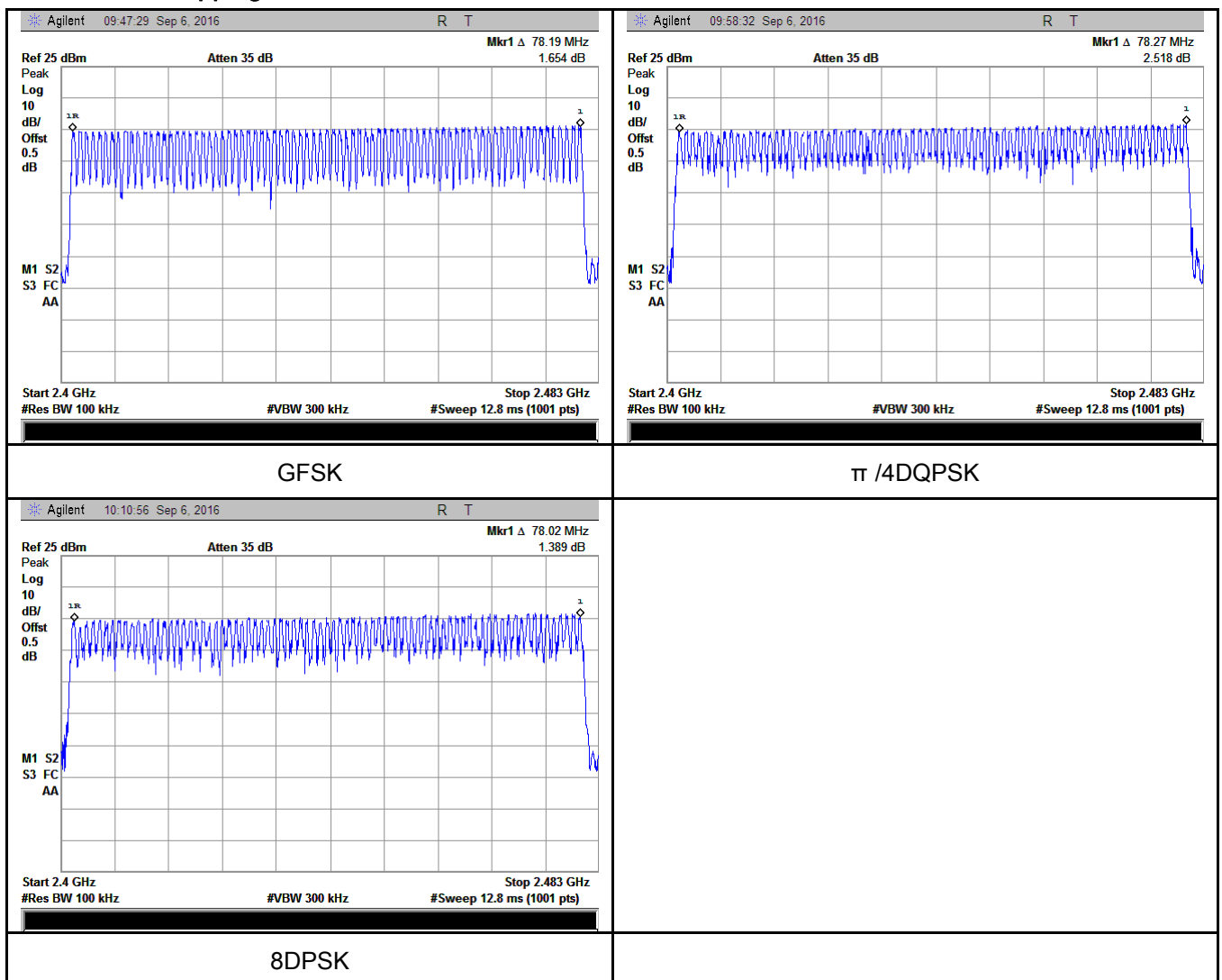
Test Data ☒ Yes ☐ N/A  
 Test Plot ☒ Yes (See below) ☐ N/A

### 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

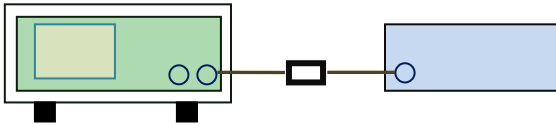
#### Number of Hopping Channels measurement result



## 6.6 Time of Occupancy (Dwell Time)

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	September 06, 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. <u>Use the following spectrum analyzer</u></p> <ul style="list-style-type: none"> <li>- Span = zero span, centered on a hopping channel</li> <li>- RBW = 1 MHz</li> <li>- VBW ≥ RBW</li> <li>- Sweep = as necessary to capture the entire dwell time per hopping channel</li> <li>- Detector function = peak</li> <li>- Trace = max hold</li> <li>- use the marker-delta function to determine the dwell time</li> </ul>		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data ☒ Yes ☐ N/A

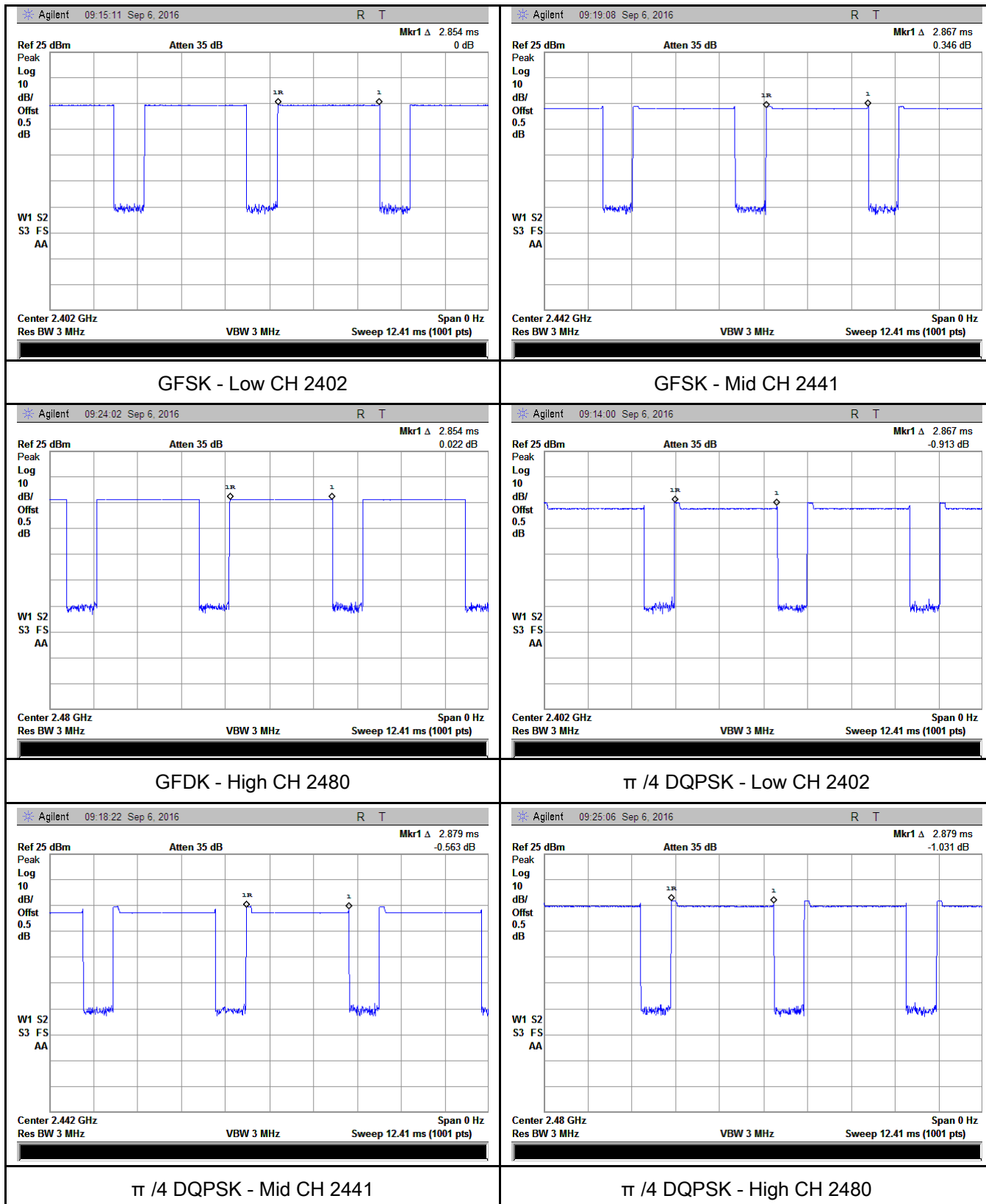
Test Plot ☒ Yes (See below) ☐ N/A

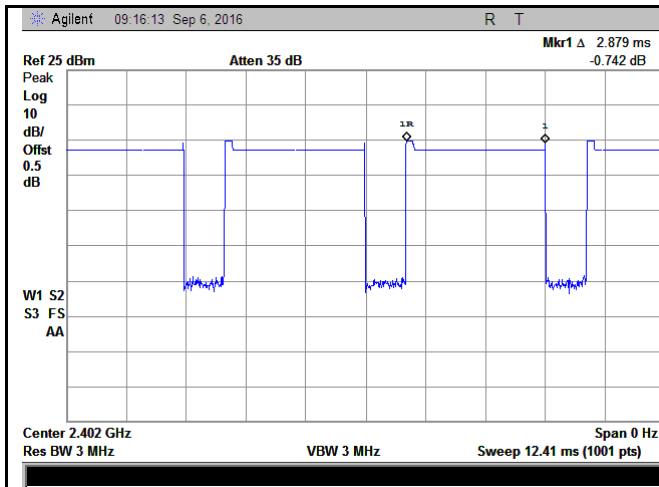


Type	Modulation	CH	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
Dwell Time	GFSK	Low	2.854	304.427	400	Pass
		Mid	2.867	305.813	400	Pass
		High	2.854	304.427	400	Pass
	$\pi$ / 4 DQPSK	Low	2.867	305.813	400	Pass
		Mid	2.879	307.093	400	Pass
		High	2.879	307.093	400	Pass
	8-DPSK	Low	2.879	307.093	400	Pass
		Mid	2.867	305.813	400	Pass
		High	2.867	305.813	400	Pass
Note: Dwell time=Pulse Time (ms) $\times$ (1600 $\div$ 6 $\div$ 79) $\times$ 31.6						

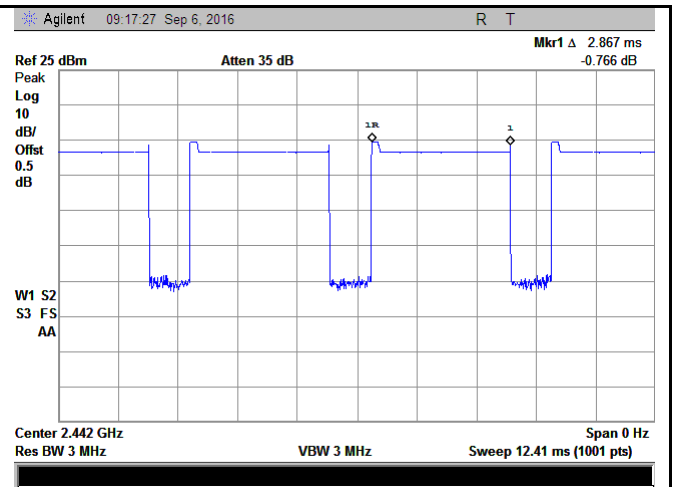
## Test Plots

### Dwell Time measurement result

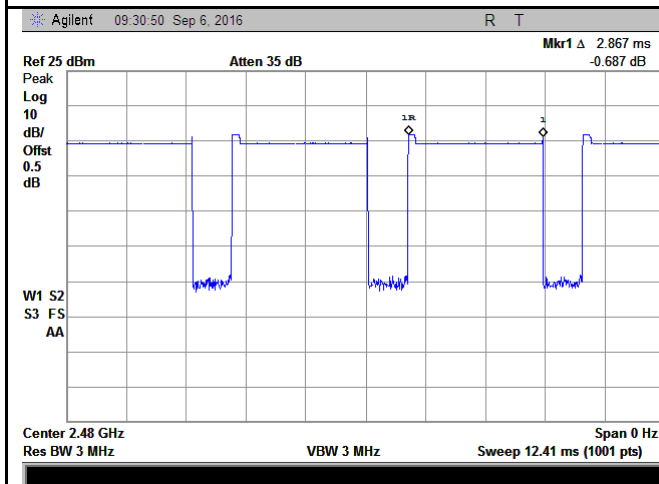




8DPSK - Low CH 2402



8DPSK - Mid CH 2441

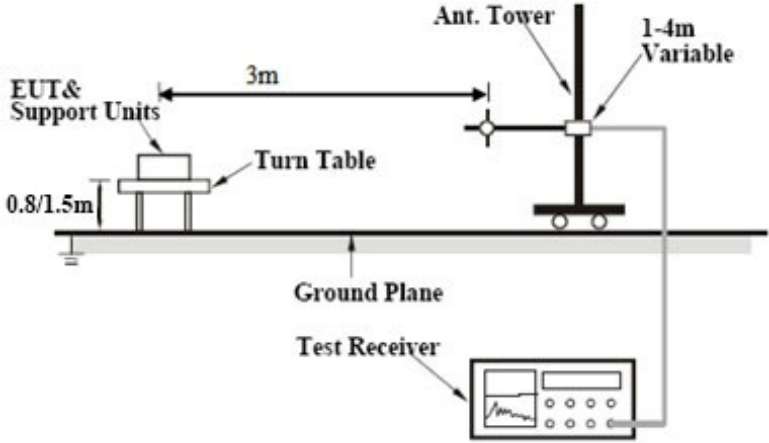


8DPSK - High CH 2480

## 6.7 Band Edge & Restricted Band

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	September 06, 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			
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Radiated Method Only</p> <ul style="list-style-type: none"> <li>1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.</li> <li>2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range,</li> </ul>		

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

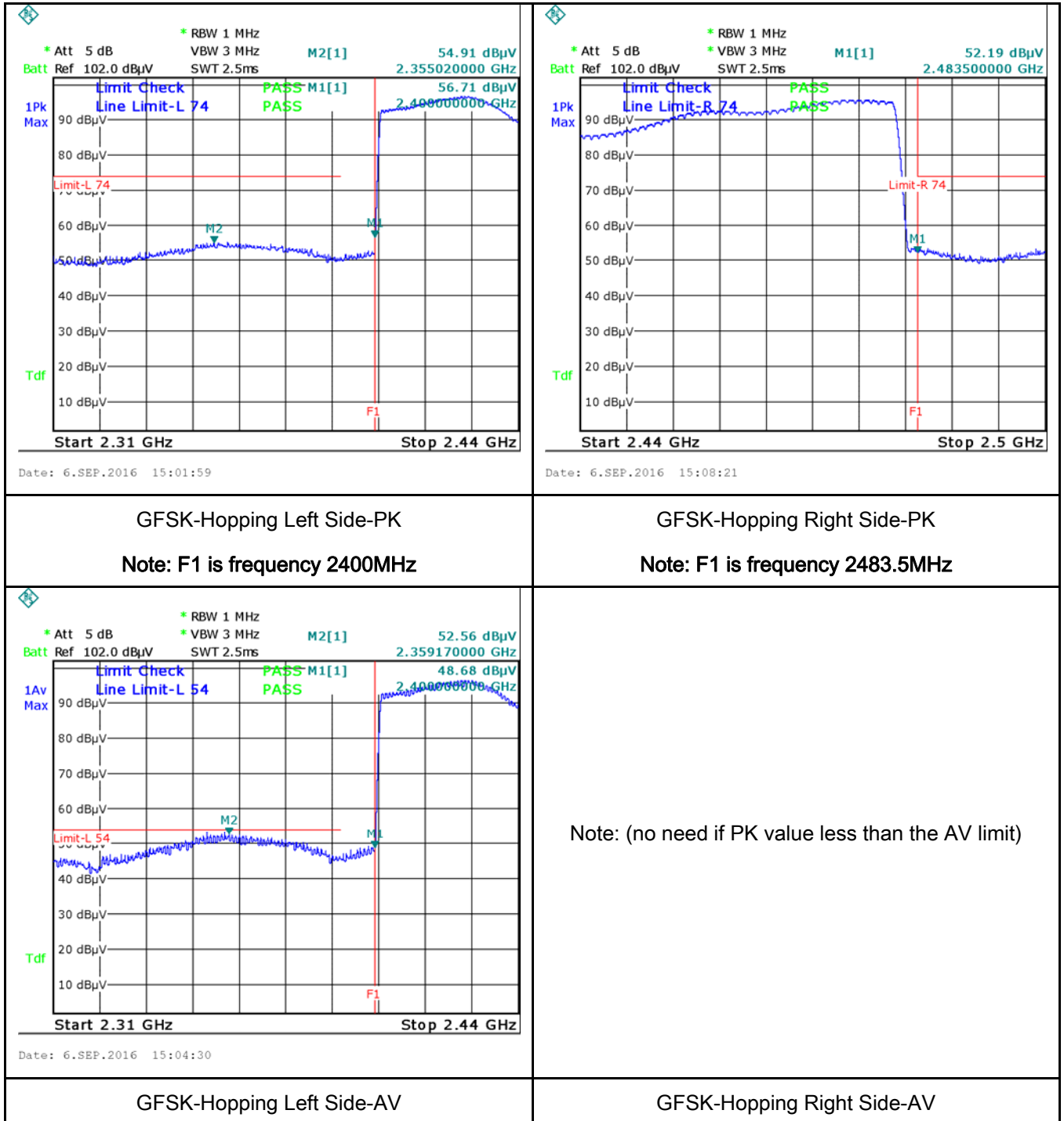
Test Data ☐ Yes ☒ N/A

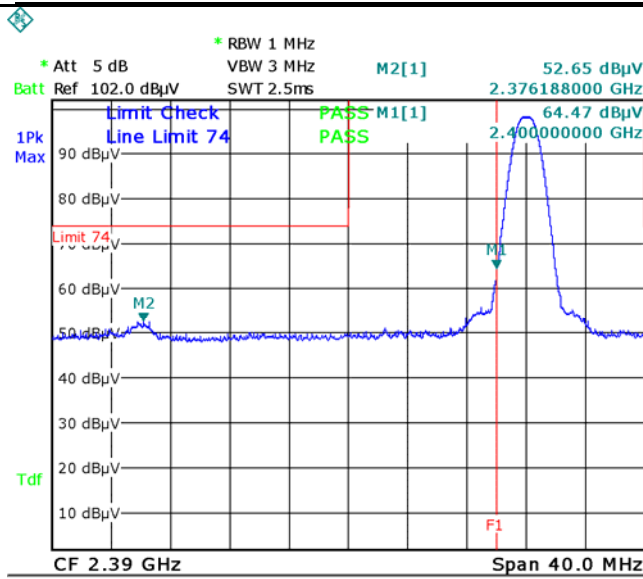
Test Plot ☒ Yes (See below) ☐ N/A

## Radiated method:

### Test Plots

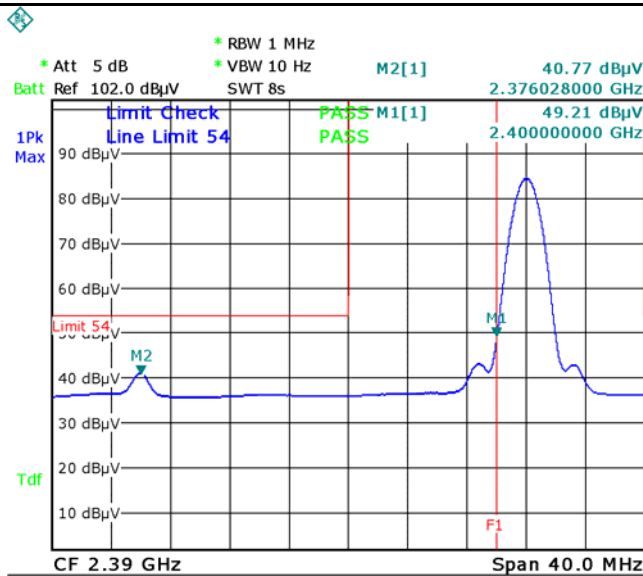
#### GFSK Mode:



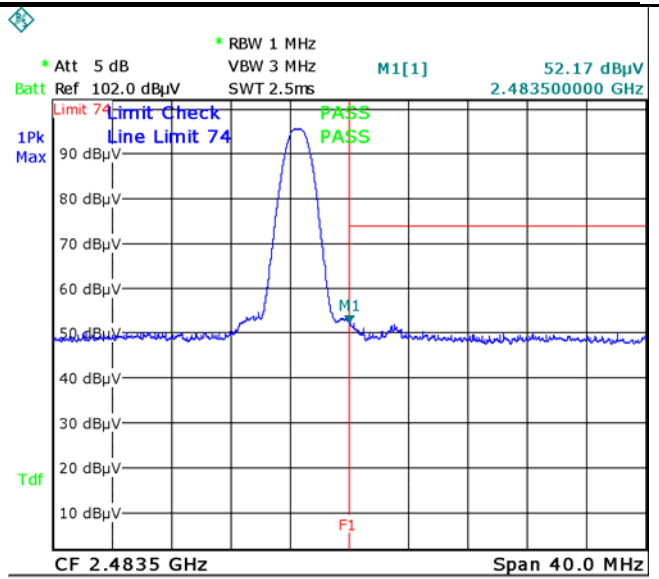


GFSK-Left Side-PK

Note: F1 is frequency 2400MHz



GFSK-Left Side-AV



GFSK-Right Side-PK

Note: F1 is frequency 2483.5MHz

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

GFSK-Right Side-AV

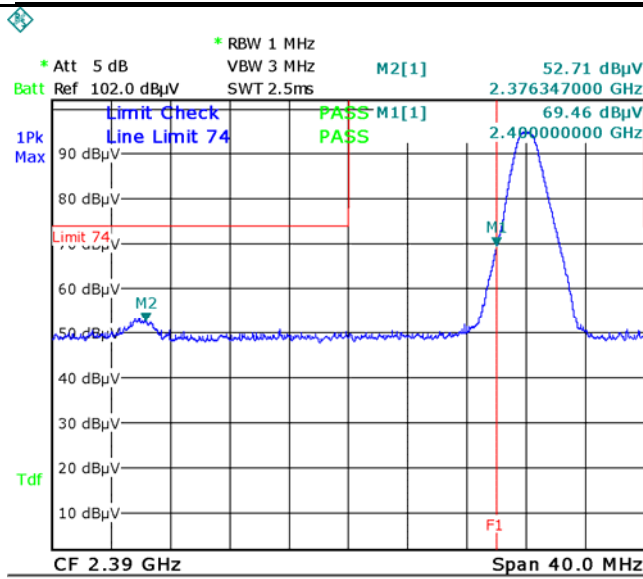
The figure consists of four subplots arranged in a 2x2 grid, each showing a spectral plot of power density versus frequency.

- Top Left Plot:** Shows the spectrum for  $\pi/4$  DQPSK-Hopping Left Side-PK. The y-axis ranges from 10 dB $\mu$ V to 90 dB $\mu$ V. The x-axis ranges from 2.31 GHz to 2.44 GHz. A red horizontal line indicates the Limit-L-74 at approximately 74 dB $\mu$ V. A green vertical line marks F1 at 2.400000000 GHz. The signal level is below the limit, and the status is "PASS".
- Top Right Plot:** Shows the spectrum for  $\pi/4$  DQPSK-Hopping Right Side-PK. The y-axis ranges from 10 dB $\mu$ V to 90 dB $\mu$ V. The x-axis ranges from 2.44 GHz to 2.5 GHz. A red horizontal line indicates the Limit-R-74 at approximately 74 dB $\mu$ V. A green vertical line marks F1 at 2.483500000 GHz. The signal level is below the limit, and the status is "PASS".
- Bottom Left Plot:** Shows the spectrum for  $\pi/4$  DQPSK-Hopping Left-AV. The y-axis ranges from 10 dB $\mu$ V to 90 dB $\mu$ V. The x-axis ranges from 2.31 GHz to 2.44 GHz. A red horizontal line indicates the Limit-L-54 at approximately 54 dB $\mu$ V. A green vertical line marks F1 at 2.400000000 GHz. The signal level is above the limit, and the status is "FAIL".
- Bottom Right Plot:** Shows the spectrum for  $\pi/4$  DQPSK-Hopping Right-AV. The y-axis ranges from 10 dB $\mu$ V to 90 dB $\mu$ V. The x-axis ranges from 2.44 GHz to 2.5 GHz. A red horizontal line indicates the Limit-R-54 at approximately 54 dB $\mu$ V. A green vertical line marks F1 at 2.483500000 GHz. The signal level is above the limit, and the status is "FAIL".

Each plot includes the following information:

- \* Att 5 dB
- \* RBW 1 MHz
- \* VBW 3 MHz
- Batt Ref 102.0 dB $\mu$ V
- SWT 2.5ms
- M2[1]
- Start [Frequency] GHz
- Stop [Frequency] GHz
- Date: 6.SEP.2016 15:13:05 (or 15:14:47)

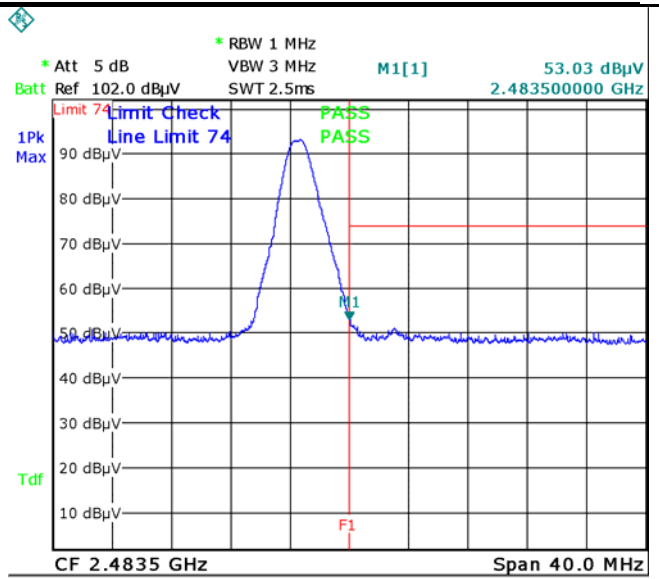




Date: 6.SEP.2016 14:32:23

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

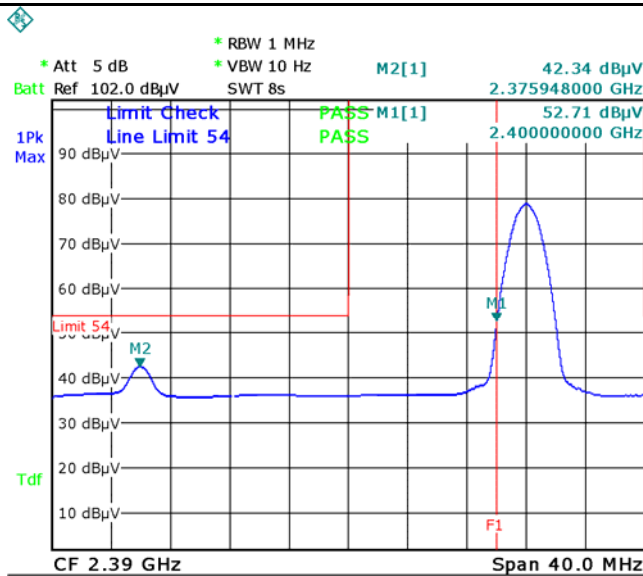
Note: F1 is frequency 2400MHz



Date: 6.SEP.2016 14:53:15

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

Note: F1 is frequency 2483.5MHz



Date: 6.SEP.2016 14:33:17

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

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

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

**8DPSK-Hopping Left Side-PK**

**Note: F1 is frequency 2400MHz**

Att 5 dB RBW 1 MHz VBW 3 MHz M2[1] 54.59 dBμV 2.380000000 GHz  
Batt Ref 102.0 dBμV SWT 2.5ms  
Limit Check Line Limit-L 74 PASS M1[1] PASS 57.15 dBμV 2.400000000 GHz  
1Pk Max Tdf  
Start 2.31 GHz Stop 2.44 GHz  
Date: 6.SEP.2016 15:48:35

**8DPSK-Hopping Right Side-PK**

**Note: F1 is frequency 2483.5MHz**

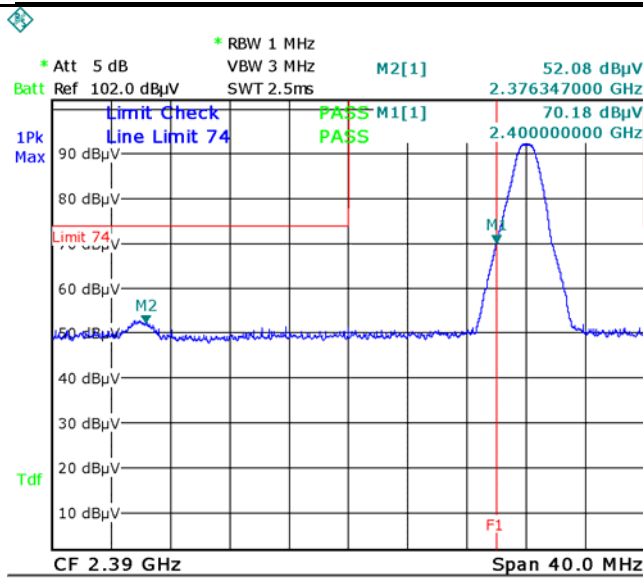
Att 5 dB RBW 1 MHz VBW 3 MHz M1[1] 52.75 dBμV 2.492040000 GHz  
Batt Ref 102.0 dBμV SWT 2.5ms  
Limit Check Line Limit-R 74 PASS 52.75 dBμV 2.492040000 GHz  
1Pk Max Tdf  
Start 2.44 GHz Stop 2.5 GHz  
Date: 6.SEP.2016 15:52:03

**8DPSK-Hopping Left Side-AV**

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

Att 5 dB RBW 1 MHz VBW 3 MHz M2[1] 51.79 dBμV 2.380000000 GHz  
Batt Ref 102.0 dBμV SWT 2.5ms  
Limit Check Line Limit-L 54 PASS M1[1] PASS 51.84 dBμV 2.400000000 GHz  
1AV Max Tdf  
Start 2.31 GHz Stop 2.44 GHz  
Date: 6.SEP.2016 15:49:35

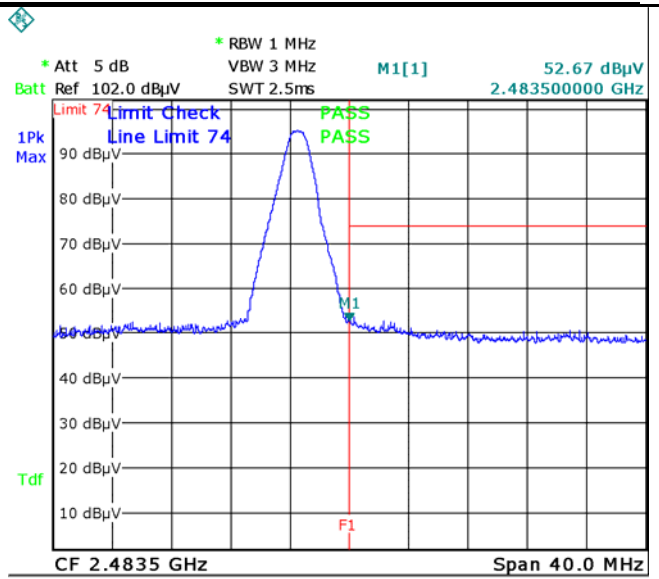
**8DPSK-Hopping Right Side-AV**



Date: 6.SEP.2016 14:45:23

### 8DPSK-Left Side-PK

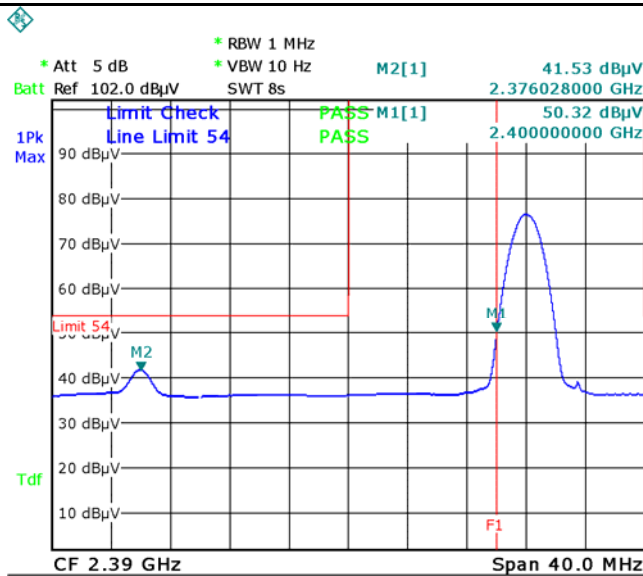
Note: F1 is frequency 2400MHz



Date: 6.SEP.2016 14:55:46

### 8DPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



Date: 6.SEP.2016 14:46:18

### 8DPSK-Left Side-AV

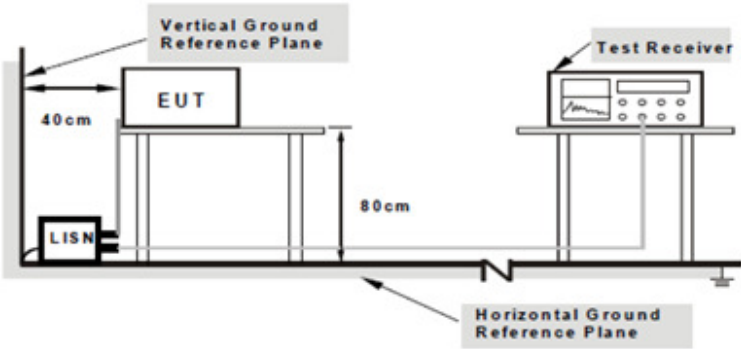
Note: (no need if PK value less than the AV limit)

### 8DPSK-Right Side-AV

## 6.8 AC Power Line Conducted Emissions

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1005mbar
Test date :	September 05, 2016
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.207, RSS210 (A8.1)	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.	<div><input checked="" type="checkbox"/></div>														
		<table><tr><th rowspan="2">Frequency ranges (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>QP</th><th>Average</th></tr><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></table>		Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50
		Frequency ranges (MHz)			Limit (dBµV)												
				QP	Average												
		0.15 ~ 0.5		66 – 56	56 – 46												
0.5 ~ 5	56	46															
5 ~ 30	60	50															
Test Setup	<div><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></div>																
		Procedure	1. 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.														
			2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.														
		3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss															

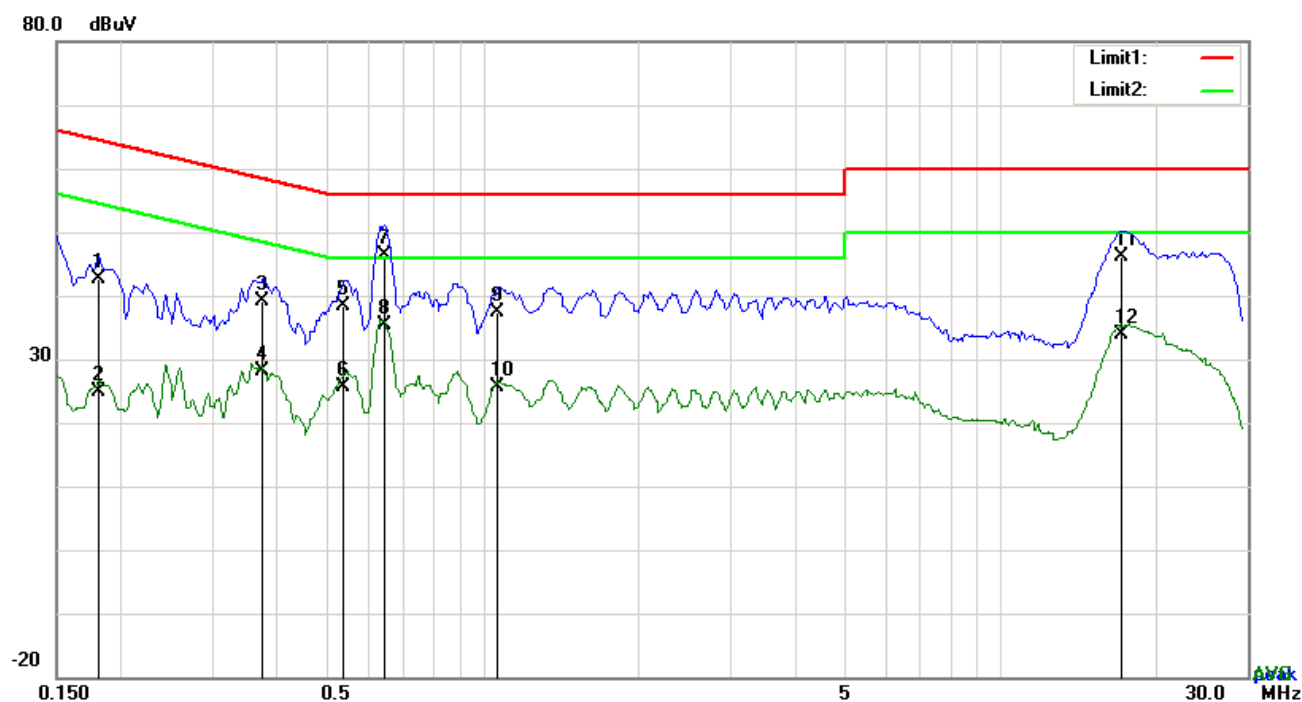
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	<p>coaxial cable.</p> <ol style="list-style-type: none"> <li>4. All other supporting equipment were powered separately from another main supply.</li> <li>5. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>6. 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.</li> <li>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.</li> <li>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</li> </ol>
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

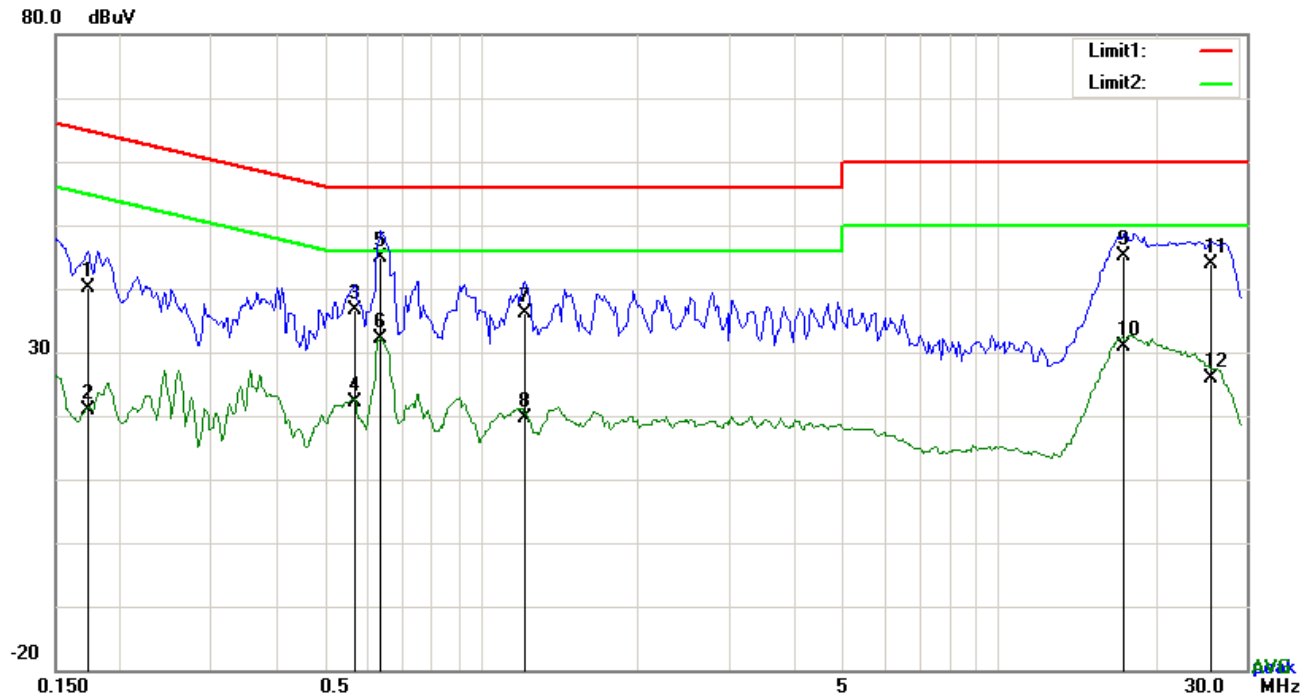


### Test Data

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1812	32.64	QP	10.03	42.67	64.43	-21.76
2	L1	0.1812	14.83	AVG	10.03	24.86	54.43	-29.57
3	L1	0.3762	29.12	QP	10.03	39.15	58.36	-19.21
4	L1	0.3762	18.20	AVG	10.03	28.23	48.36	-20.13
5	L1	0.5400	28.44	QP	10.03	38.47	56.00	-17.53
6	L1	0.5400	15.53	AVG	10.03	25.56	46.00	-20.44
7	L1	0.6453	36.46	QP	10.03	46.49	56.00	-9.51
8	L1	0.6453	25.25	AVG	10.03	35.28	46.00	-10.72
9	L1	1.0665	27.32	QP	10.03	37.35	56.00	-18.65
10	L1	1.0665	15.58	AVG	10.03	25.61	46.00	-20.39
11	L1	17.1258	35.86	QP	10.26	46.12	60.00	-13.88
12	L1	17.1258	23.50	AVG	10.26	33.76	50.00	-16.24

**Test Mode:** Bluetooth Mode

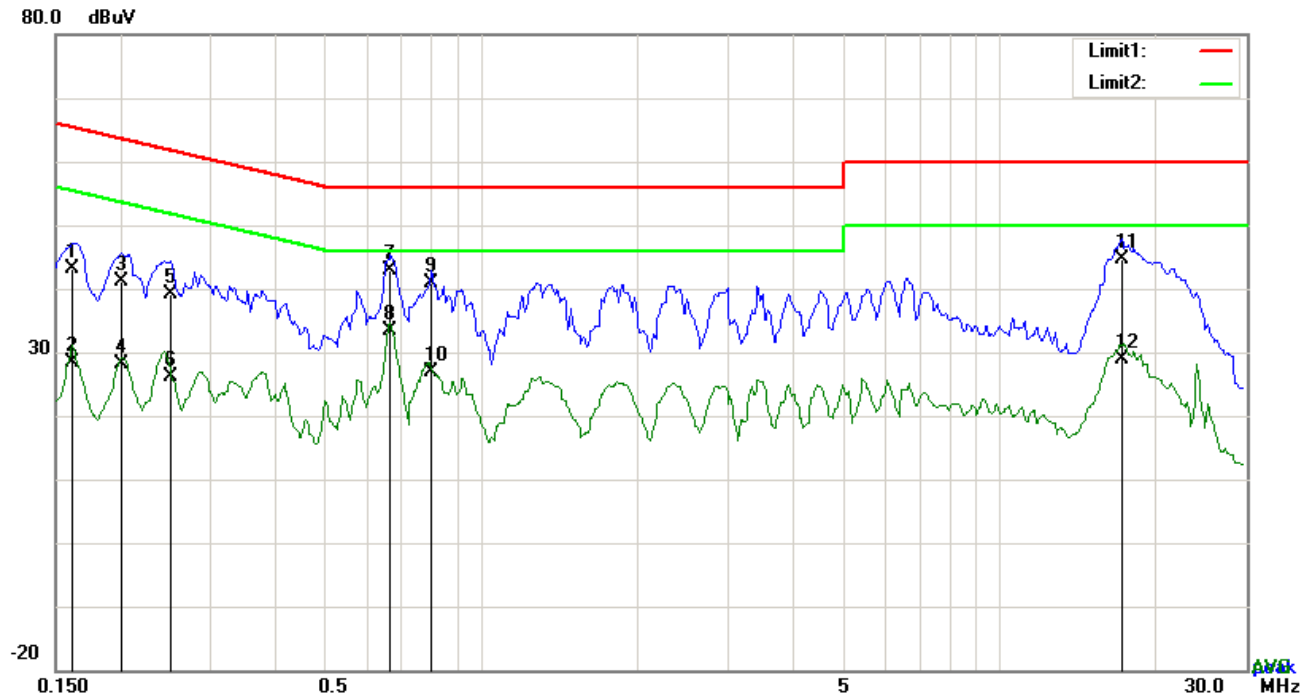


### Test Data

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1734	30.19	QP	10.02	40.21	64.80	-24.59
2	N	0.1734	10.92	AVG	10.02	20.94	54.80	-33.86
3	N	0.5673	26.50	QP	10.02	36.52	56.00	-19.48
4	N	0.5673	12.23	AVG	10.02	22.25	46.00	-23.75
5	N	0.6375	34.79	QP	10.02	44.81	56.00	-11.19
6	N	0.6375	22.08	AVG	10.02	32.10	46.00	-13.90
7	N	1.2108	26.05	QP	10.03	36.08	56.00	-19.92
8	N	1.2108	9.67	AVG	10.03	19.70	46.00	-26.30
9	N	17.4651	35.02	QP	10.23	45.25	60.00	-14.75
10	N	17.4651	20.65	AVG	10.23	30.88	50.00	-19.12
11	N	25.6980	33.64	QP	10.35	43.99	60.00	-16.01
12	N	25.6980	15.44	AVG	10.35	25.79	50.00	-24.21

**Test Mode:** Bluetooth Mode



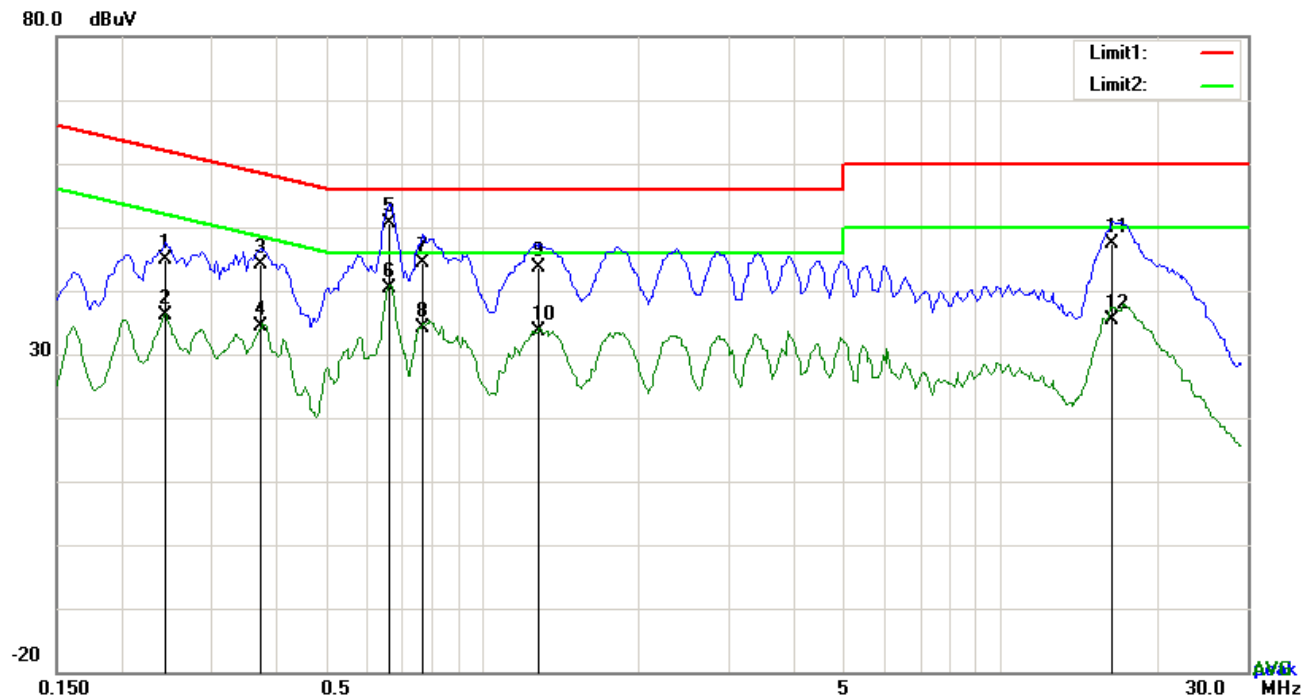
### Test Data

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1617	32.99	QP	10.03	43.02	65.38	-22.36
2	L1	0.1617	18.36	AVG	10.03	28.39	55.38	-26.99
3	L1	0.2007	30.99	QP	10.03	41.02	63.58	-22.56
4	L1	0.2007	18.22	AVG	10.03	28.25	53.58	-25.33
5	L1	0.2514	29.15	QP	10.03	39.18	61.71	-22.53
6	L1	0.2514	16.03	AVG	10.03	26.06	51.71	-25.65
7	L1	0.6648	32.78	QP	10.03	42.81	56.00	-13.19
8	L1	0.6648	23.42	AVG	10.03	33.45	46.00	-12.55
9	L1	0.7974	30.93	QP	10.03	40.96	56.00	-15.04
10	L1	0.7974	16.75	AVG	10.03	26.78	46.00	-19.22
11	L1	17.2116	34.40	QP	10.26	44.66	60.00	-15.34
12	L1	17.2116	18.73	AVG	10.26	28.99	50.00	-21.01



**Test Mode:** Bluetooth Mode



### Test Data


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

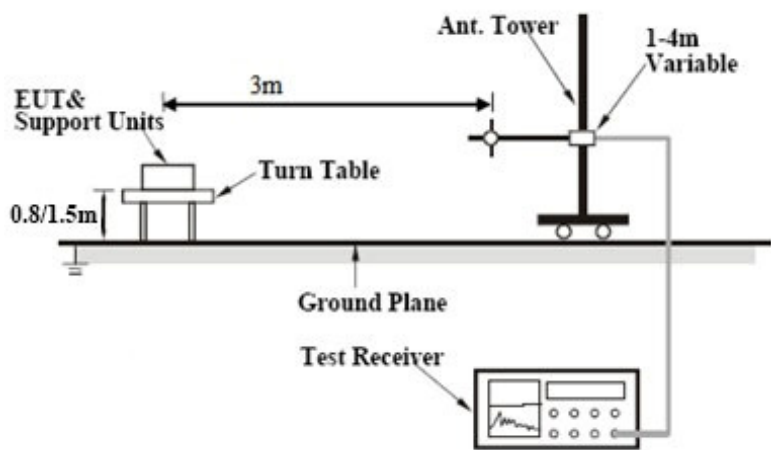
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.2436	34.76	QP	10.02	44.78	61.97	-17.19
2	N	0.2436	26.01	AVG	10.02	36.03	51.97	-15.94
3	N	0.3723	34.06	QP	10.02	44.08	58.45	-14.37
4	N	0.3723	24.41	AVG	10.02	34.43	48.45	-14.02
5	N	0.6609	40.69	QP	10.02	50.71	56.00	-5.29
6	N	0.6609	30.46	AVG	10.02	40.48	46.00	-5.52
7	N	0.7662	34.46	QP	10.03	44.49	56.00	-11.51
8	N	0.7662	24.17	AVG	10.03	34.20	46.00	-11.80
9	N	1.2849	33.71	QP	10.03	43.74	56.00	-12.26
10	N	1.2849	23.51	AVG	10.03	33.54	46.00	-12.46
11	N	16.4355	37.15	QP	10.22	47.37	60.00	-12.63
12	N	16.4355	25.16	AVG	10.22	35.38	50.00	-14.62

## 6.9 Radiated Spurious Emissions & Restricted Band

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	September 06, 2016
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable											
47CFR§15.205, §15.209, §15.247(d)	a)	Except higher limit as specified 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												
		<table><tr><th>Frequency range (MHz)</th><th>Field Strength (µV/m)</th></tr><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></table>		Frequency range (MHz)	Field Strength (µV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	
		Frequency range (MHz)		Field Strength (µV/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. It features a Turn Table with EUT &amp; Support Units on it, positioned 3m from an Ant. Tower. The Ant. Tower has a 1-4m Variable antenna. The setup is on a Ground Plane. A Test Receiver is connected to the antenna.</p>
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Procedure	<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:</li> </ol>
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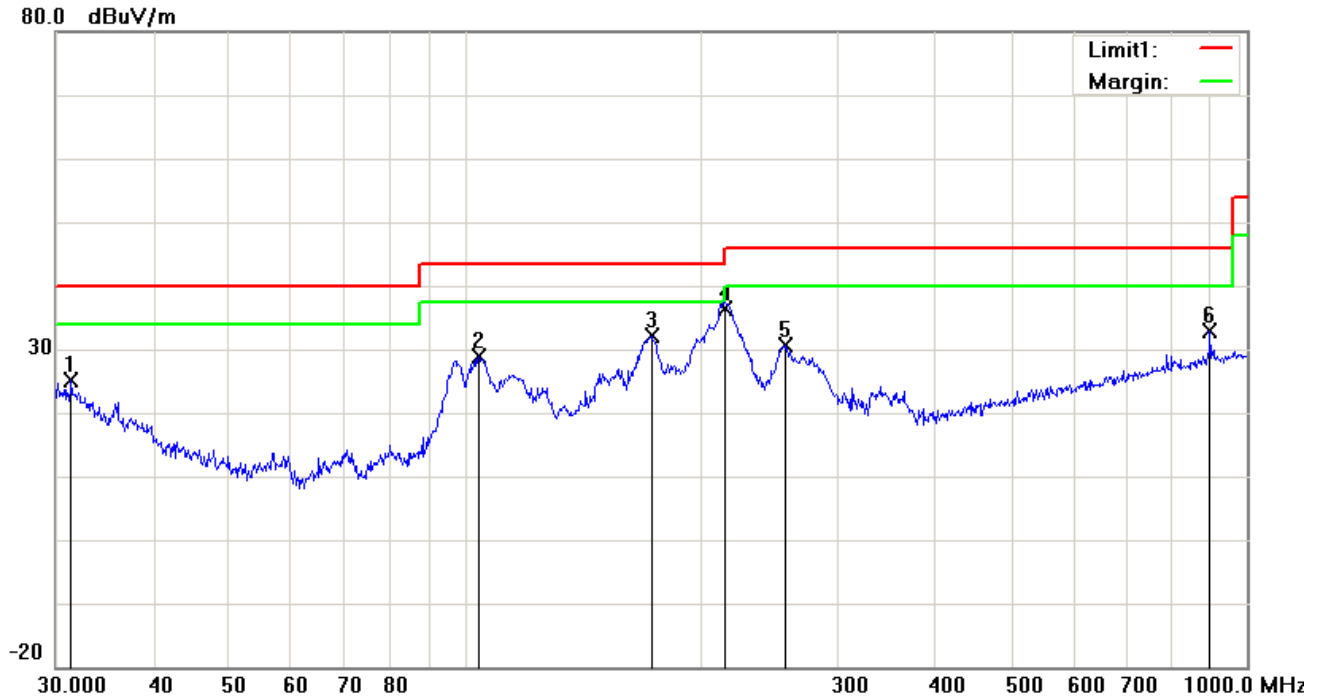
	<p>a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</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. 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	31.3992	26.41	peak	-1.29	25.12	40.00	-14.88	100	59
2	H	104.1701	38.85	peak	-10.06	28.79	43.50	-14.71	100	28
3	H	173.2051	41.54	peak	-9.36	32.18	43.50	-11.32	100	100
4	H	215.2678	45.35	QP	-8.87	36.48	43.50	-7.02	100	47
5	H	256.5211	39.44	peak	-8.89	30.55	46.00	-15.45	100	154
6	H	896.9965	28.22	peak	4.64	32.86	46.00	-13.14	100	89

### Below 1GHz



### Test Data

#### Vertical 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	V	31.0706	31.96	peak	-1.04	30.92	40.00	-9.08	100	120
2	V	97.4560	45.43	peak	-11.48	33.95	43.50	-9.55	100	65
3	V	103.8055	43.03	peak	-10.12	32.91	43.50	-10.59	100	247
4	V	170.7926	36.75	peak	-9.16	27.59	43.50	-15.91	100	133
5	V	204.9551	41.27	peak	-8.78	32.49	43.50	-11.01	100	24
6	V	896.9965	35.19	QP	4.64	39.83	46.00	-6.17	100	0

## Above 1GHz

Test Mode:	Transmitting Mode
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### Low Channel (2402 MHz) ( $\pi/4$ DQPSK Worst Case )

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4804	38.66	AV	V	33.67	6.86	32.66	46.53	54	-7.47
4804	38.51	AV	H	33.67	6.86	32.66	46.38	54	-7.62
4804	47.95	PK	V	33.67	6.86	32.66	55.82	74	-18.18
4804	47.38	PK	H	33.67	6.86	32.66	55.25	74	-18.75
17764	24.72	AV	V	45.03	11.21	32.38	48.58	54	-5.42
17764	24.51	AV	H	45.03	11.21	32.38	48.37	54	-5.63
17764	41.23	PK	V	45.03	11.21	32.38	65.09	74	-8.91
17764	40.79	PK	H	45.03	11.21	32.38	64.65	74	-9.35

### Middle Channel (2441 MHz) ( 8DPSK Worst Case )

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4882	38.75	AV	V	33.71	6.95	32.74	46.67	54	-7.33
4882	38.63	AV	H	33.71	6.95	32.74	46.55	54	-7.45
4882	48.01	PK	V	33.71	6.95	32.74	55.93	74	-18.07
4882	47.67	PK	H	33.71	6.95	32.74	55.59	74	-18.41
17824	24.3	AV	V	45.15	11.18	32.41	48.22	54	-5.78
17824	23.89	AV	H	45.15	11.18	32.41	47.81	54	-6.19
17824	41.05	PK	V	45.15	11.18	32.41	64.97	74	-9.03
17824	40.61	PK	H	45.15	11.18	32.41	64.53	74	-9.47

**High Channel (2480 MHz) (  $\pi/4$  DQPSK Worst Case )**

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4960	38.59	AV	V	33.9	6.76	32.74	46.51	54	-7.49
4960	38.46	AV	H	33.9	6.76	32.74	46.38	54	-7.62
4960	48.12	PK	V	33.9	6.76	32.74	56.04	74	-17.96
4960	47.95	PK	H	33.9	6.76	32.74	55.87	74	-18.13
17789	24.66	AV	V	45.22	11.35	32.38	48.85	54	-5.15
17789	24.34	AV	H	45.22	11.35	32.38	48.53	54	-5.47
17789	41.12	PK	V	45.22	11.35	32.38	65.31	74	-8.69
17789	40.63	PK	H	45.22	11.35	32.38	64.82	74	-9.18

**Note:**

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

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
<b>AC Line Conducted</b>					
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	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
<b>RF conducted test</b>					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	<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	09/21/2015	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	09/24/2016	<input checked="" type="checkbox"/>

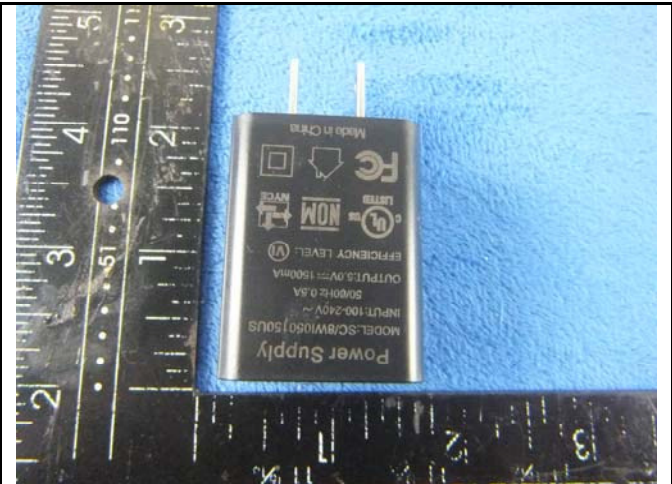


## Annex B. EUT And Test Setup Photographs

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



Whole Package View



Adapter - Front View



EUT - Front View



EUT - Rear View



EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View



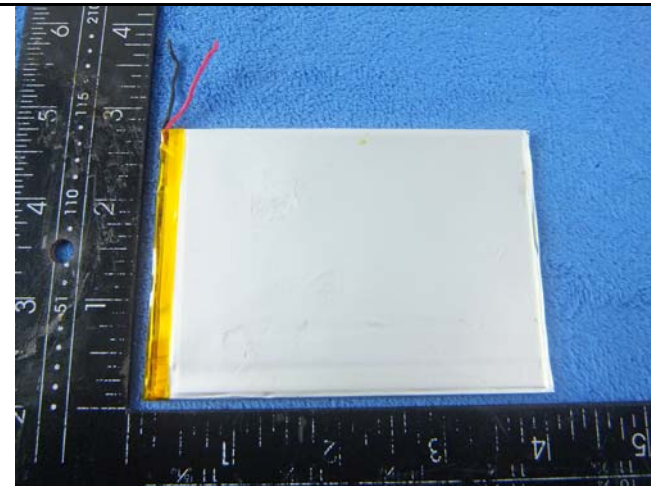
**Annex B.ii. Photograph: EUT Internal Photo**



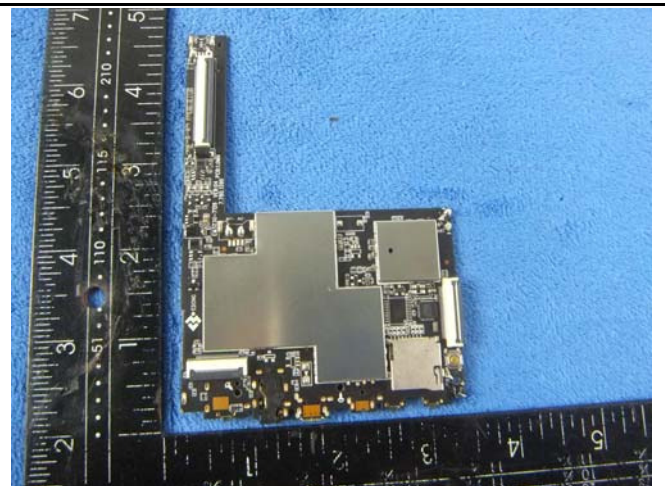
Cover Off - Top View 1



Battery - Front View



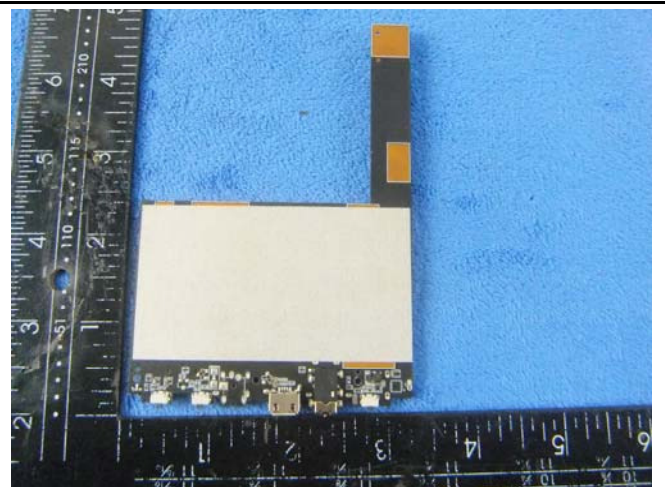
Battery - Rear View



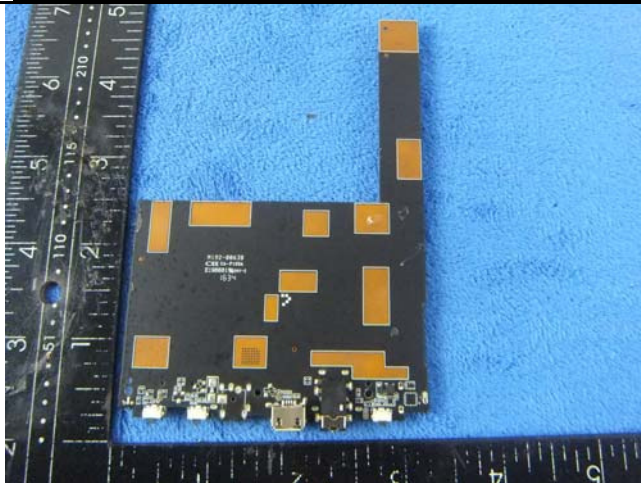
Mainboard with Shielding - Front View



Mainboard without Shielding - Front View



Mainboard with Shielding - Rear View



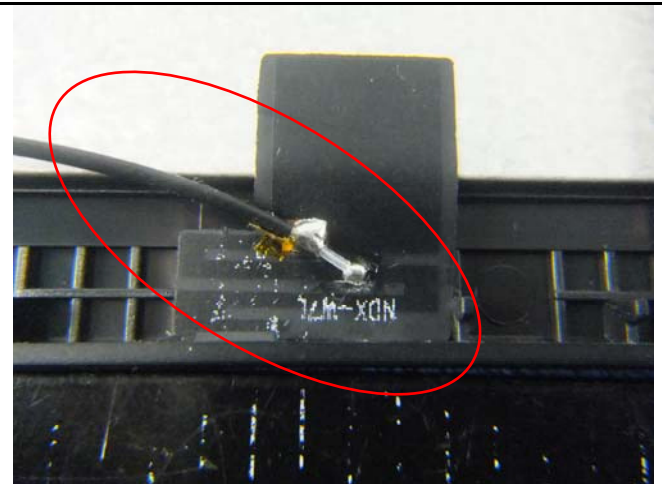
Mainboard without Shielding - Front View



LCD - Front View



LCD - Rear View



BT /WIFI/BLE Antenna View



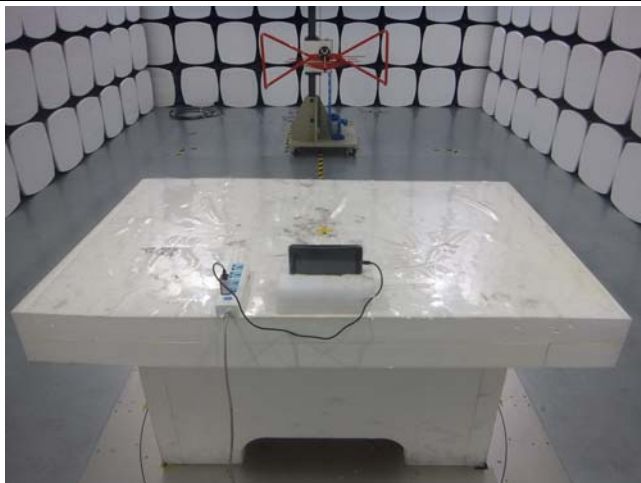
**Annex B.iii. Photograph: Test Setup Photo**



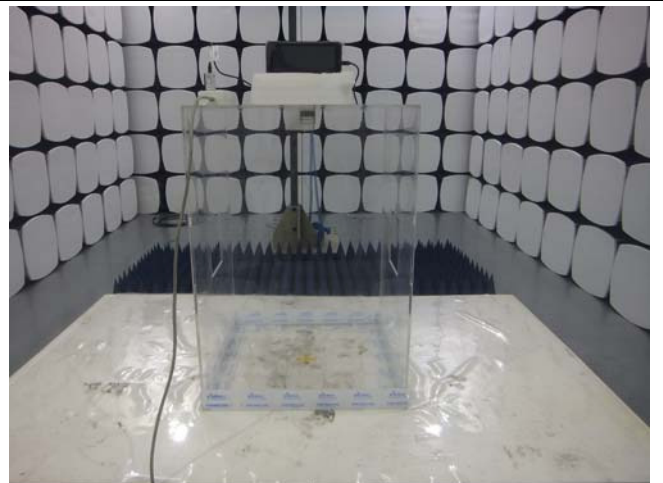
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

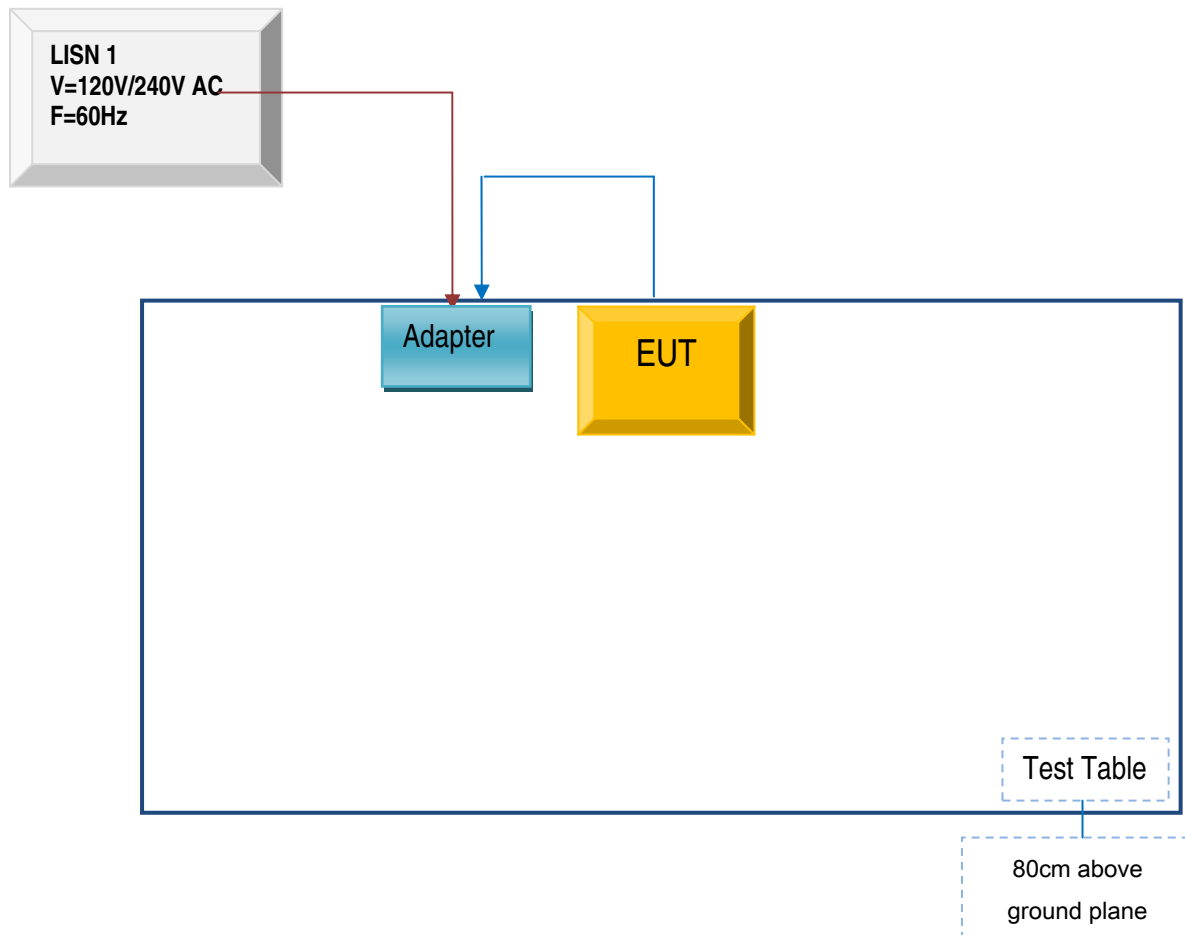


Radiated Spurious Emissions Test Setup Above 1GHz

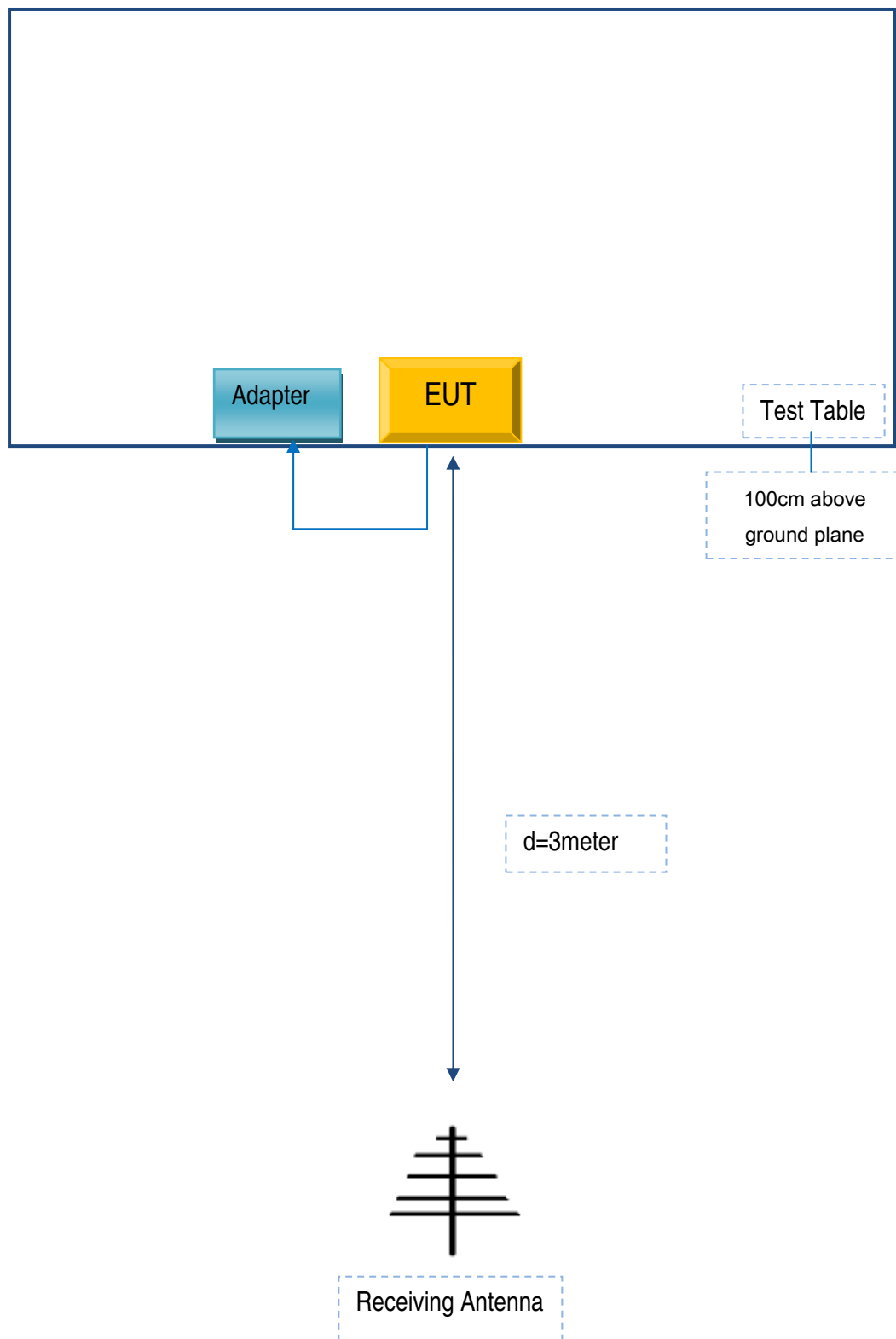
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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

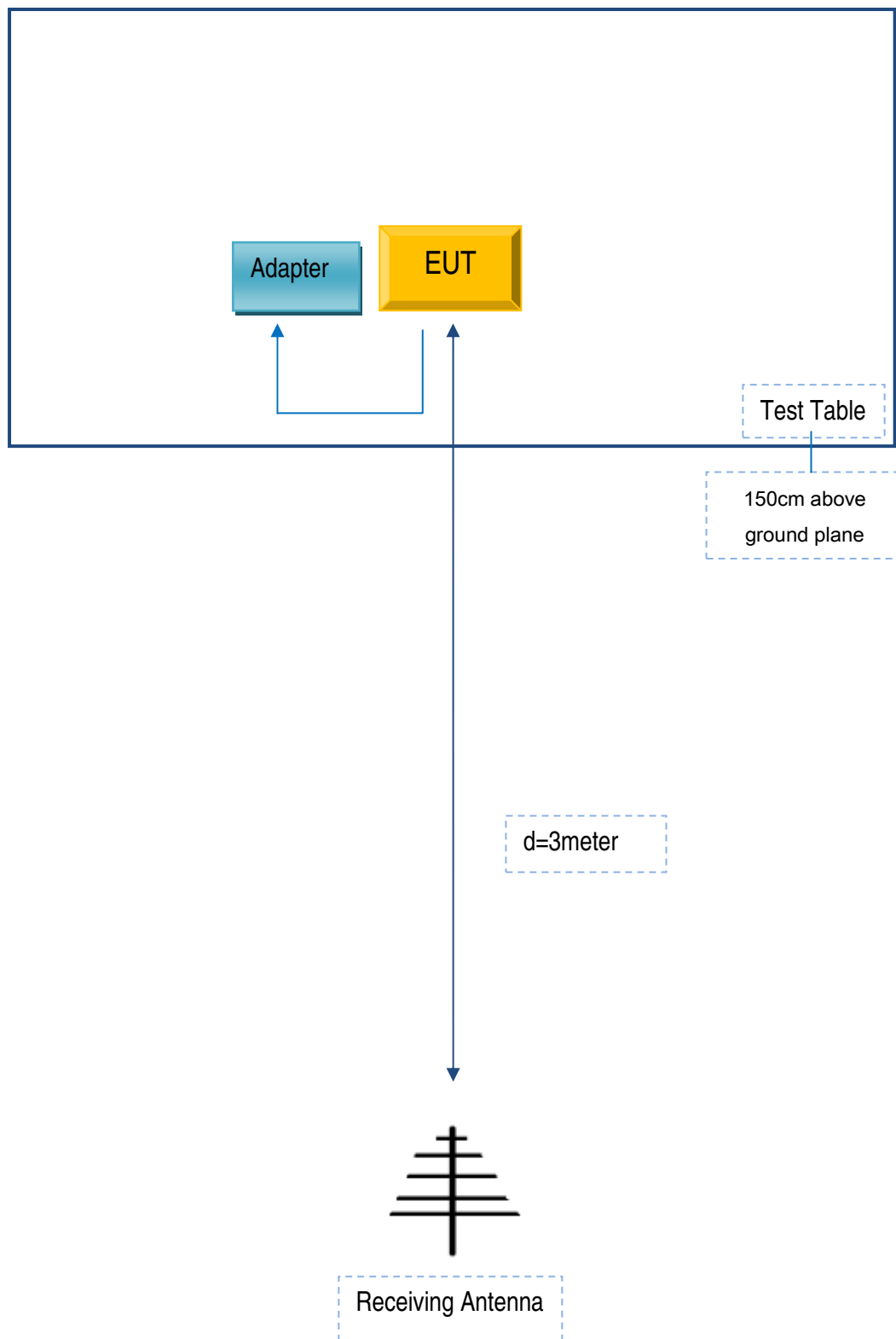
#### Block Configuration Diagram for AC Line Conducted Emissions



**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
AOC	Adapter	SC/8WI050150US	A7S

### **Supporting Cable:**

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	A7S

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

Please see attachment

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## Annex E. DECLARATION OF SIMILARITY

N/A