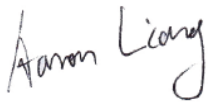
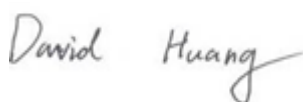



# RF TEST REPORT



Report No.: 18070322-FCC-R3

Supersede Report No.: N/A

Applicant	BLU Products, Inc.	
Product Name	Mobile Phone	
Model No.	STUDIO G4	
Serial No.	N/A	
Test Standard	FCC Part 15.247, ANSI C63.10: 2013	
Test Date	April 12 to May 13, 2018	
Issue Date	May 14, 2018	
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"/>	
		
Aaron Liang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

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

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

Phone: +86 0755 2601 4629801 Email: [China@siemic.com.cn](mailto: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

Test Report	18070322-FCC-R3
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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
18070322-FCC-R3	NONE	Original	May 14, 2018

## 2. Customer information

Applicant Name	BLU Products, Inc.
Applicant Add	10814 NW 33rd St # 100 Doral, FL 33172
Manufacturer	BLU Products, Inc.
Manufacturer Add	10814 NW 33rd St # 100 Doral, FL 33172

## 3. Test site information

Test Lab A:

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.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

Test Lab B:

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

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

## 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone
Main Model:	STUDIO G4
Serial Model:	N/A
Date EUT received:	April 11, 2018
Test Date(s):	April 12 to May 13, 2018
Equipment Category :	DSS
Antenna Gain:	GSM850: -3dBi PCS1900: -2.5dBi UMTS-FDD Band V: -3.5dBi UMTS-FDD Band II: -2.7dBi UMTS-FDD Band IV: -2.3dBi WIFI: -3.6dBi Bluetooth/BLE: -3.3dBi GPS: -3.3dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi$ /4DQPSK, 8DPSK BLE: GFSK GPS: BPSK

	<p>GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz</p> <p>PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz</p> <p>UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz</p> <p>UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;</p> <p>RX: 1932.4 ~ 1987.6 MHz</p>
RF Operating Frequency (ies):	<p>UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;</p> <p>RX : 2112.4 ~ 2152.6 MHz</p> <p>WIFI: 802.11b/g/n(20M): 2412-2462 MHz</p> <p>WIFI: 802.11n(40M): 2422-2452 MHz</p> <p>Bluetooth&amp; BLE: 2402-2480 MHz</p> <p>GPS: 1575.42 MHz</p>
Max. Output Power:	4.095dBm
Number of Channels:	<p>GSM 850: 124CH</p> <p>PCS1900: 299CH</p> <p>UMTS-FDD Band V: 102CH</p> <p>UMTS-FDD Band IV: 202CH</p> <p>UMTS-FDD Band II: 277CH</p> <p>WIFI :802.11b/g/n(20M): 11CH</p> <p>WIFI :802.11n(40M): 7CH</p> <p>Bluetooth: 79CH</p> <p>BLE: 40CH</p> <p>GPS:1CH</p>
Port:	USB Port, Earphone Port
Input Power:	<p>Adapter:</p> <p>Model: TPA-46B050100UU</p> <p>Input: AC100-240V~50/60Hz,0.2A</p> <p>Output: DC 5V, 1.0A</p> <p>Battery:</p> <p>Model: C696047200L</p> <p>Spec: 3.8V, 2000mAh, 7.60Wh</p>
Trade Name :	BLU
FCC ID:	YHLBLUSTUDIOG4

## 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

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

### Measurement Uncertainty

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



## 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 2 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIF/GPS, the gain is -3.3dBi for Bluetooth/BLE, the gain is -3.6dBi for WIFI, the gain is -3.3dBi for GPS.

A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is -3dBi for GSM850, -2.5dBi for PCS1900, -3.5dBi for UMTS-FDD Band V, -2.7dBi for UMTS-FDD Band II, -2.3dBi for UMTS-FDD Band IV.


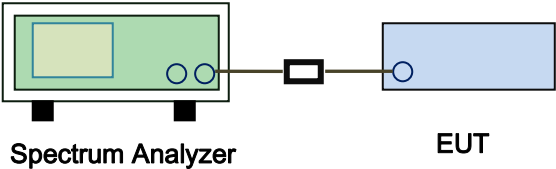
**The antenna meets up with the ANTENNA REQUIREMENT.**

**Result:** Compliance.

## 6.2 Channel Separation

Temperature	24°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2018
Tested By :	Aaron Liang

### 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	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>		
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

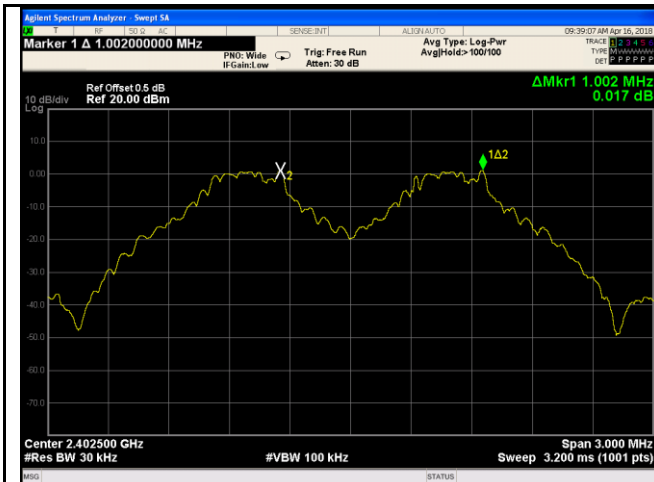
Test Plot ☒ Yes (See below) ☐ N/A

### Channel Separation measurement result

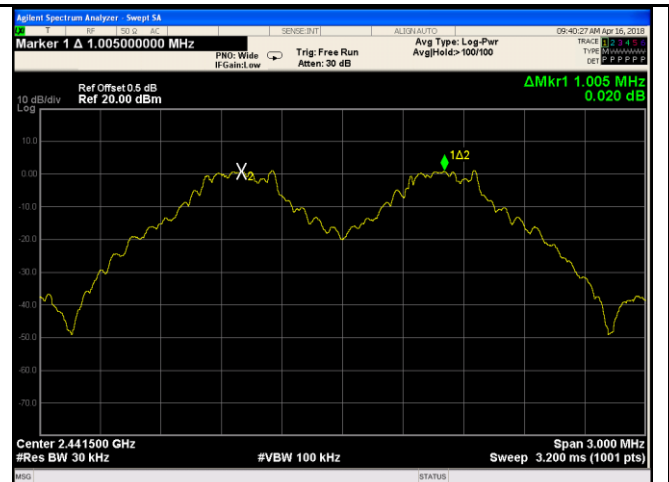
Type/ Modulation	CH	CH Frequency (MHz)	CH Separation (MHz)	Limit (MHz)	Result
CH Separation GFSK	Low Channel	2402	1.002	0.683	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.005	0.685	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.678	Pass
	Adjacency Channel	2479			
CH Separation $\pi/4$ DQPSK	Low Channel	2402	1.002	0.877	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.005	0.857	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.860	Pass
	Adjacency Channel	2479			
CH Separation 8DPSK	Low Channel	2402	1.002	0.870	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.005	0.858	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.856	Pass
	Adjacency Channel	2479			

## Test Plots

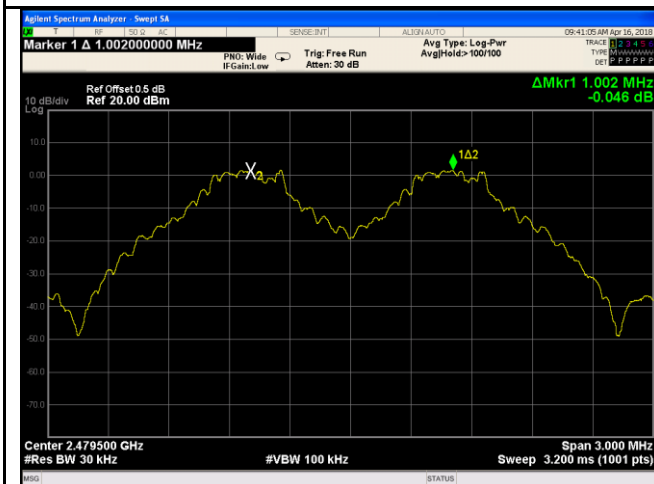
### Channel Separation measurement result



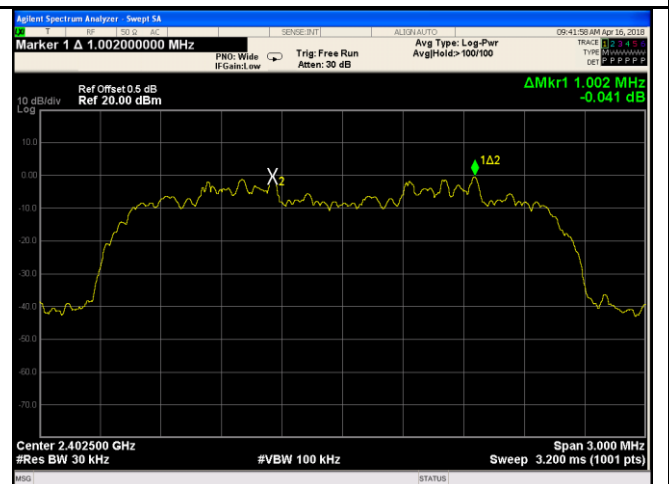
GFSK - Low Channel



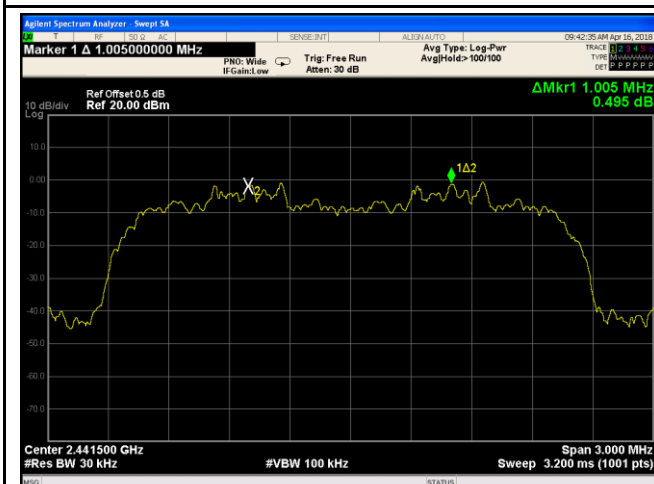
GFSK - Middle Channel



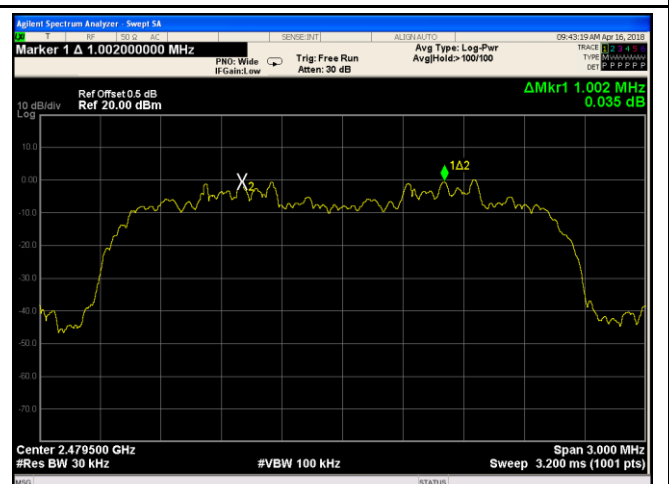
GFSK - High Channel



$\pi/4$  DPSK - Low Channel



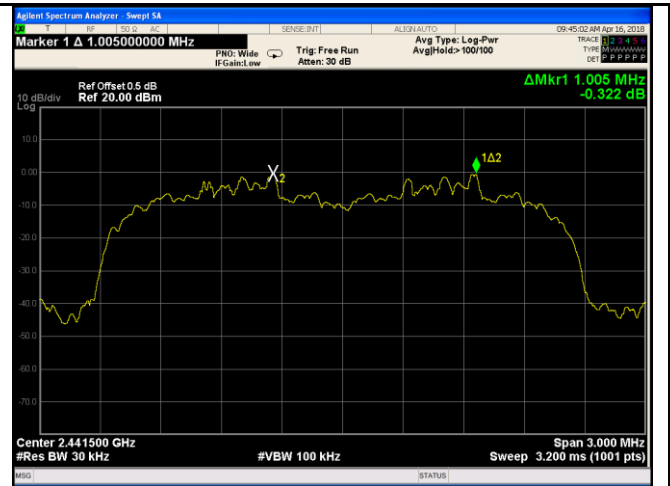
$\pi/4$  DQPSK - Middle Channel



$\pi/4$  DQPSK - High Channel



8DPSK - Low Channel



8DPSK - Middle Channel


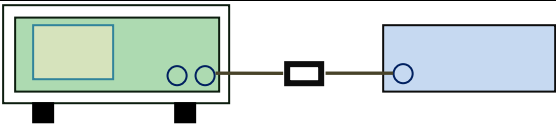


8DPSK - High Channel

### 6.3 20dB Bandwidth

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2018
Tested By :	Aaron Liang

#### 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.	
Test Setup	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>		
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. 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>		

	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

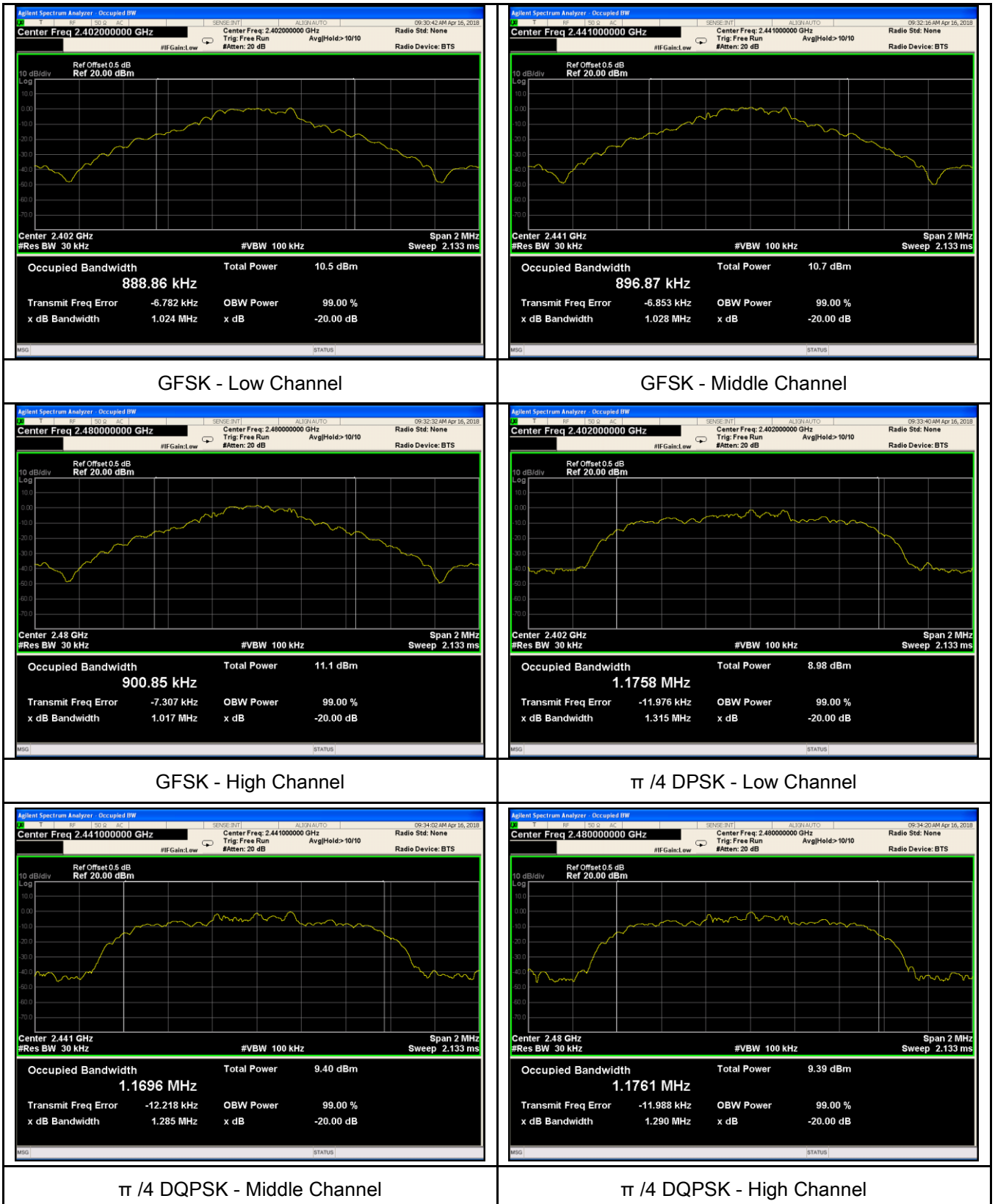
Test Plot ☒ Yes (See below) ☐ N/A

#### Measurement result

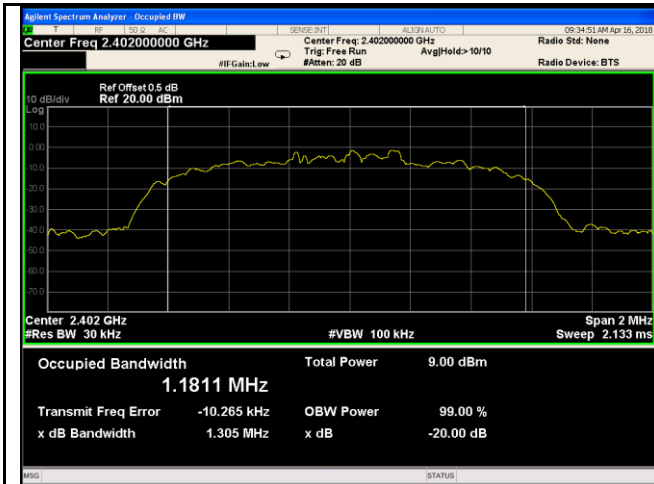
Modulation	CH	CH Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
GFSK	Low	2402	1.024	0.889
	Mid	2441	1.028	0.897
	High	2480	1.017	0.901
$\pi/4$ DQPSK	Low	2402	1.315	1.1758
	Mid	2441	1.285	1.1696
	High	2480	1.290	1.1761
8-DPSK	Low	2402	1.305	1.1811
	Mid	2441	1.287	1.1696
	High	2480	1.284	1.1714

## Test Plots

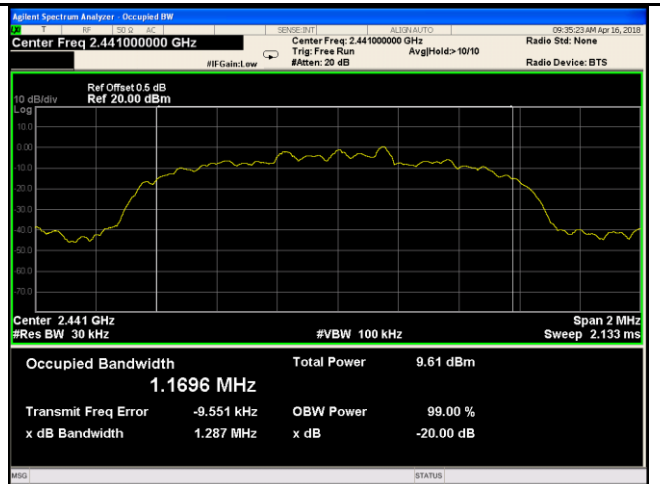
### 20dB Bandwidth measurement result



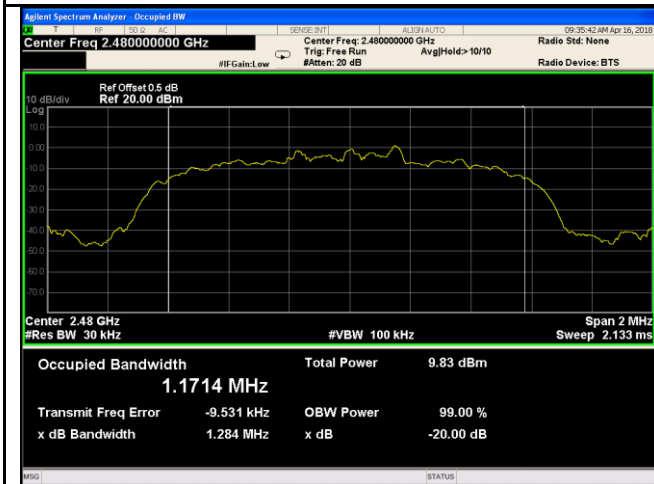




8DPSK - Low Channel



8DPSK - Middle Channel



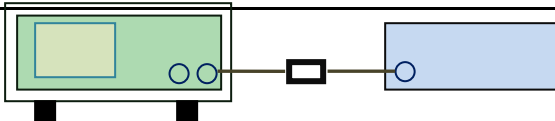
8DPSK - High Channel

## 6.4 Peak Output Power

Temperature	24°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2018
Tested By :	Aaron Liang

### 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	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
------------	--

Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</p> <p><u>Use the following spectrum analyzer settings:</u></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>
----------------	---

	<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

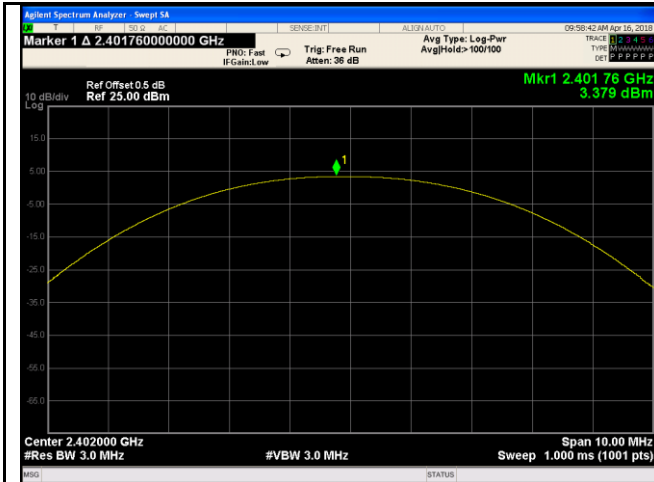
Test Plot ☒ Yes (See below) ☐ N/A

#### Peak Output Power measurement result

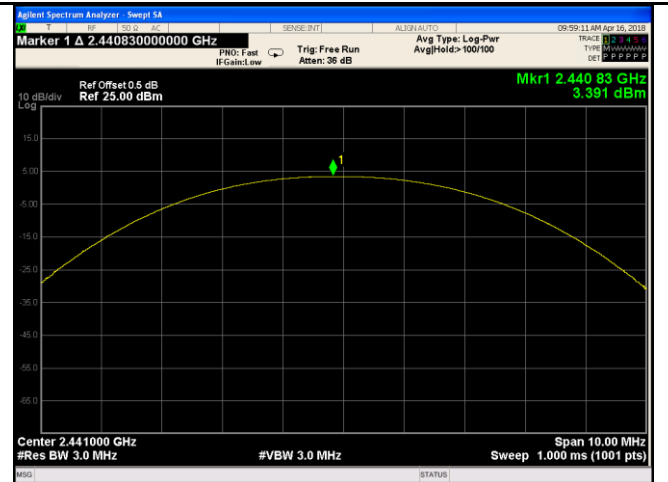
Type	Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power	GFSK	Low	2402	3.379	125	Pass
		Mid	2441	3.391	125	Pass
		High	2480	4.095	125	Pass
	$\pi/4$ DQPSK	Low	2402	3.206	125	Pass
		Mid	2441	3.180	125	Pass
		High	2480	3.930	125	Pass
	8-DPSK	Low	2402	3.322	125	Pass
		Mid	2441	3.338	125	Pass
		High	2480	4.093	125	Pass

## Test Plots

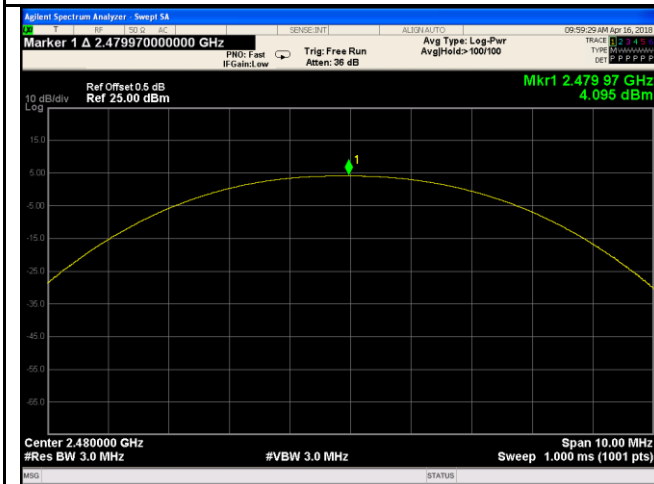
### Output Power measurement result



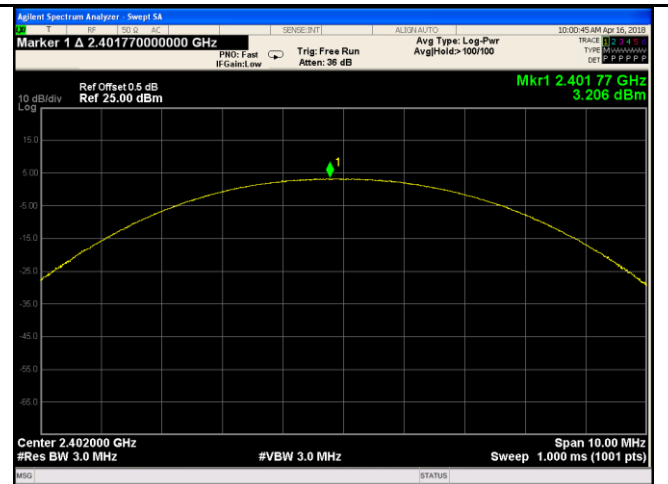
GFSK Output power - Low CH 2402



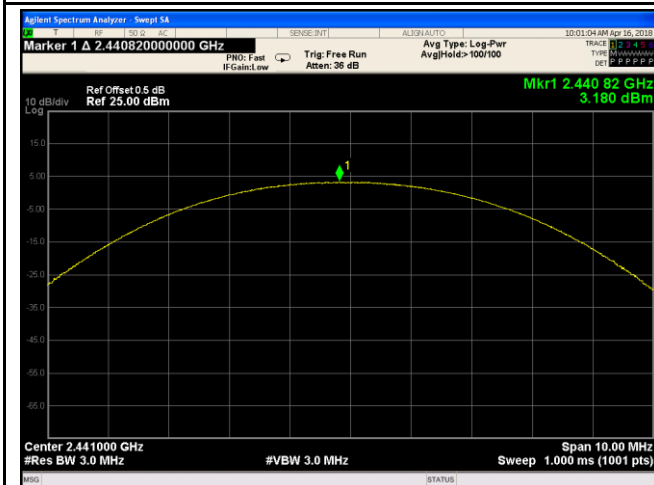
GFSK Output power - Mid CH 2441



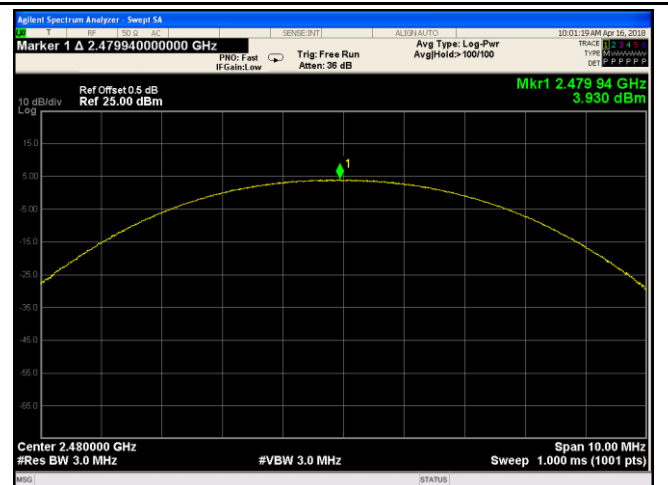
GFSK Output power - High CH 2480



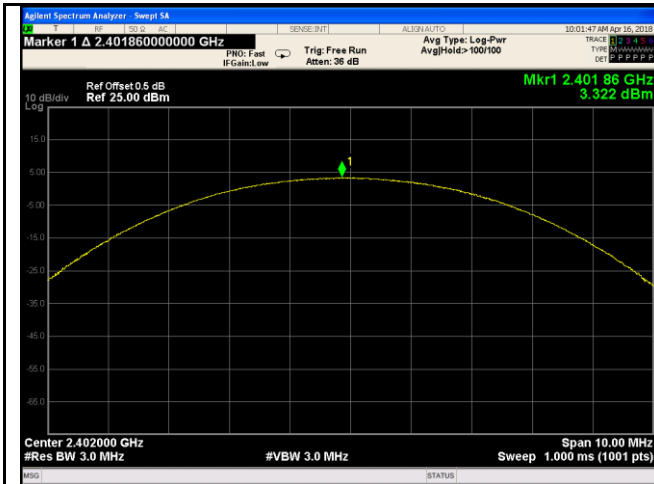
$\pi/4$  DQPSK Output power - Low CH 2402



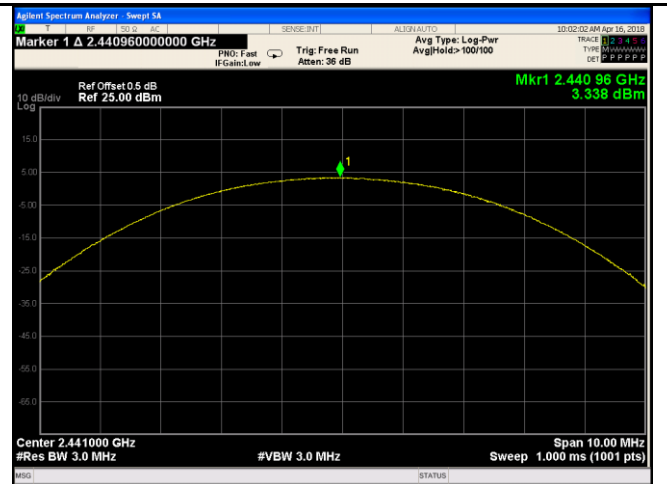
$\pi/4$  DQPSK Output power - Mid CH 2441



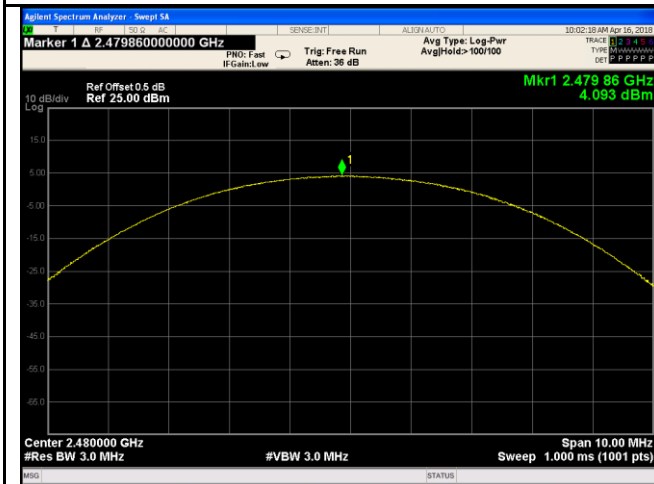
$\pi/4$  DQPSK Output power - High CH 2480



8DPSK Output power - Low CH 2402



8DPSK Output power - Mid CH 2441

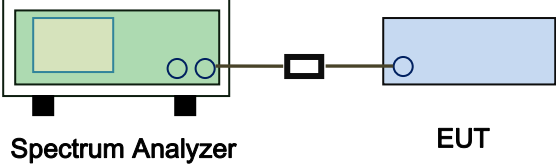


8DPSK Output power - High CH 2480

## 6.5 Number of Hopping Channel

Temperature	24°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2018
Tested By :	Aaron Liang

### 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	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>		
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 <math>\geq</math> 1% of the span</li> <li>- VBW <math>\geq</math> 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		

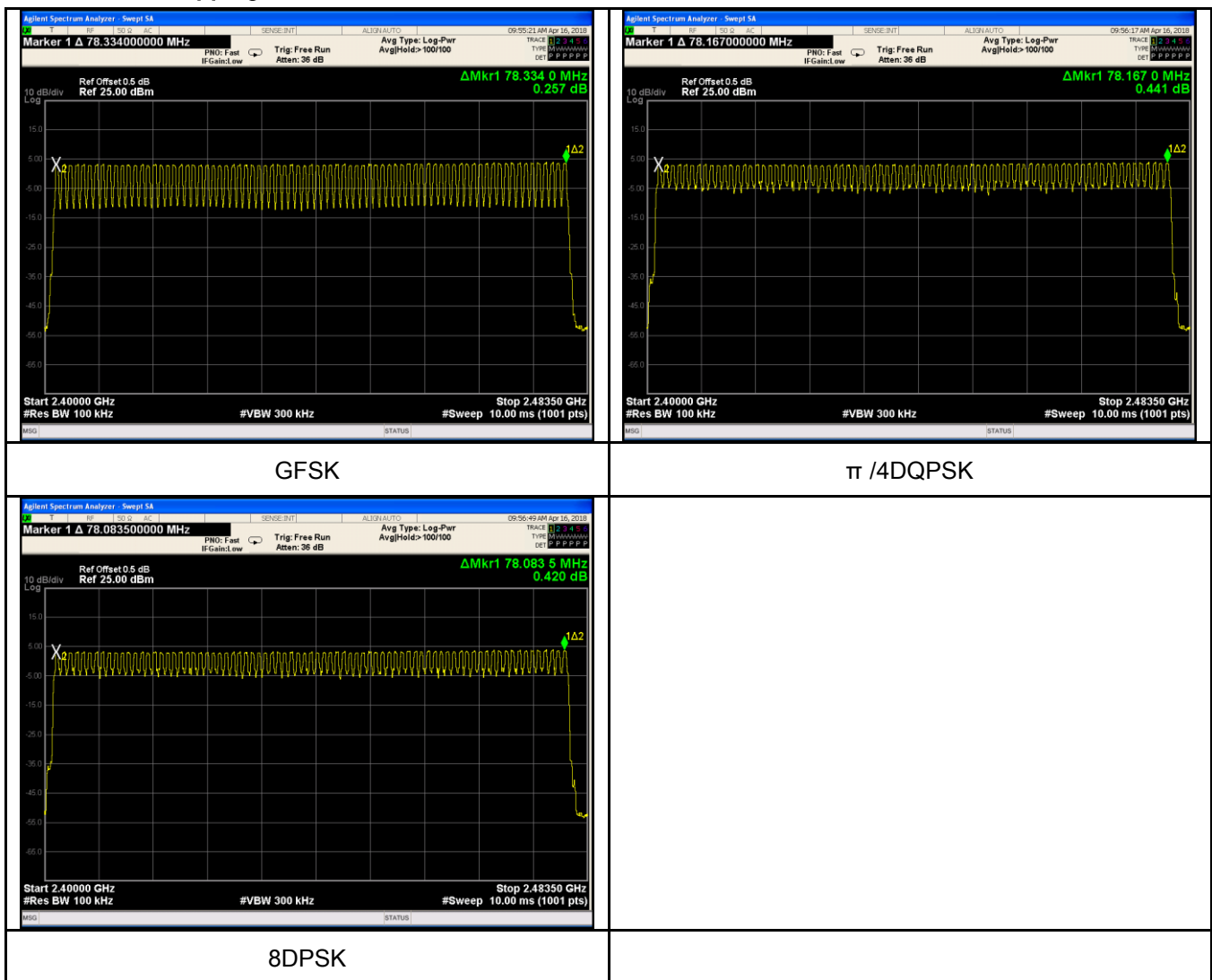
Test Data ☒ Yes                      ☐ N/A  
 Test Plot ☒ Yes (See below)                      ☐ N/A

### 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

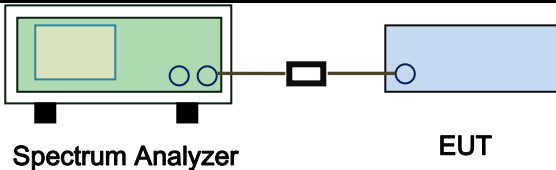
#### Number of Hopping Channels measurement result



## 6.6 Time of Occupancy (Dwell Time)

Temperature	24°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2018
Tested By :	Aaron Liang

### Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	Dwell Time < 0.4s	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>		
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.  <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



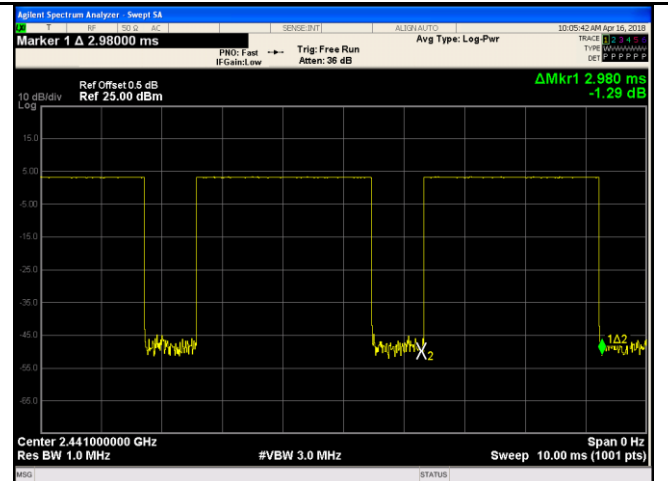
Type	Modulation	CH	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
Dwell Time	GFSK	Low	2.96	315.733	400	Pass
		Mid	2.98	317.867	400	Pass
		High	2.91	310.400	400	Pass
	$\pi$ /4 DQPSK	Low	2.97	316.800	400	Pass
		Mid	2.94	313.600	400	Pass
		High	2.96	315.733	400	Pass
	8-DPSK	Low	2.92	311.467	400	Pass
		Mid	2.96	315.733	400	Pass
		High	2.95	314.667	400	Pass
Note: Dwell time=Pulse Time (ms) $\times$ (1600 $\div$ 6 $\div$ 79) $\times$ 31.6						

## Test Plots

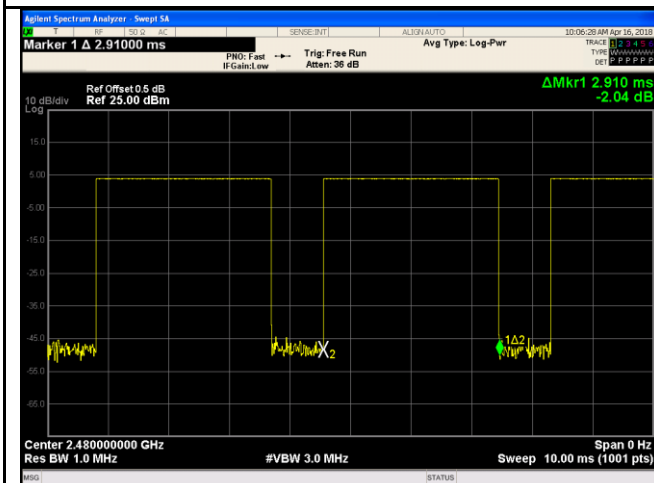
### Dwell Time measurement result



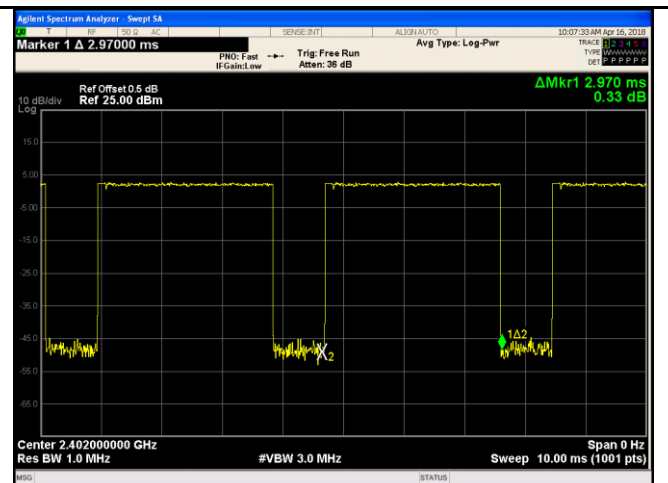
GFSK - Low CH 2402



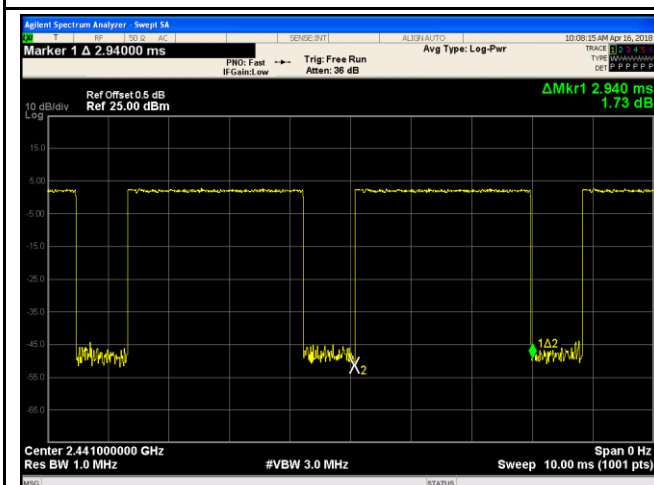
GFSK - Mid CH 2441



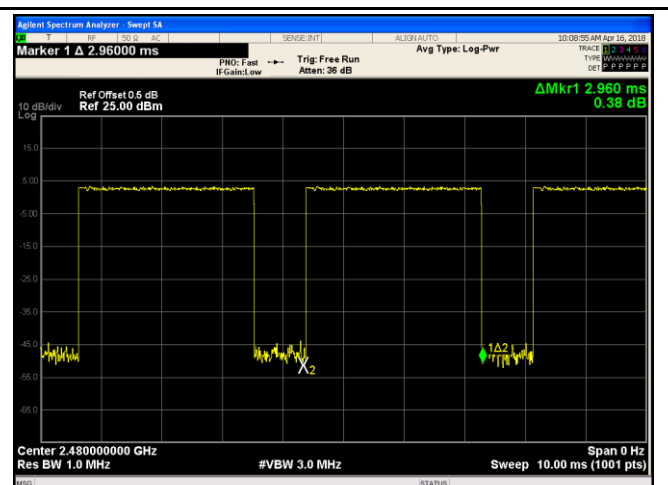
GFSK - High CH 2480



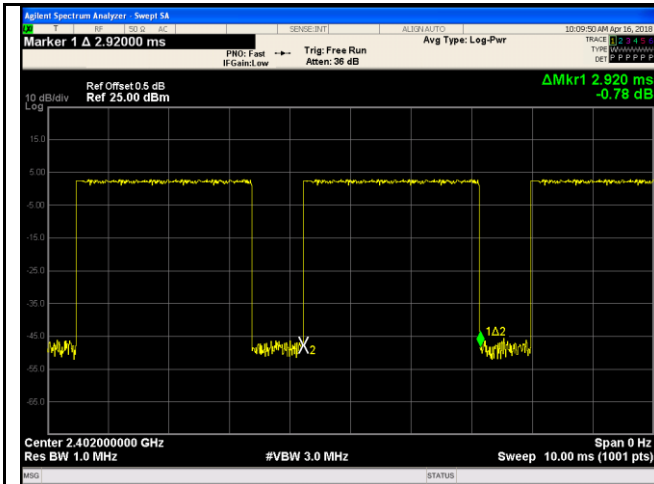
$\pi/4$  DQPSK - Low CH 2402



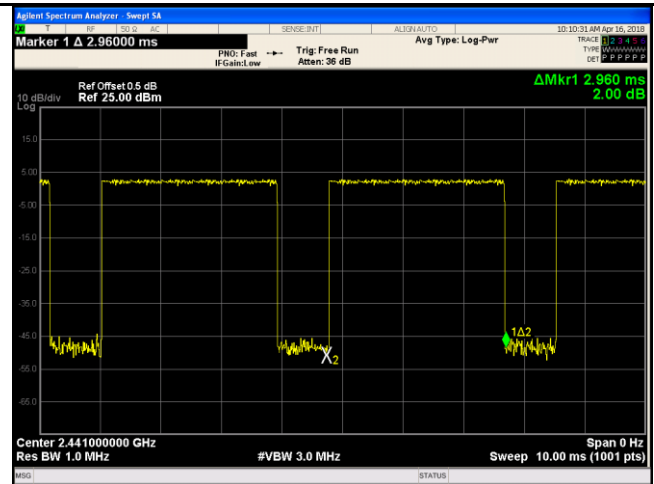
$\pi/4$  DQPSK - Mid CH 2441



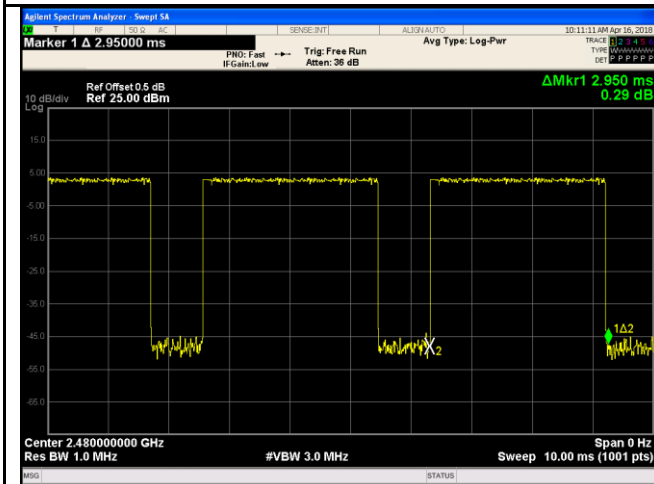
$\pi/4$  DQPSK - High CH 2480



8DPSK - Low CH 2402



8DPSK - Mid CH 2441



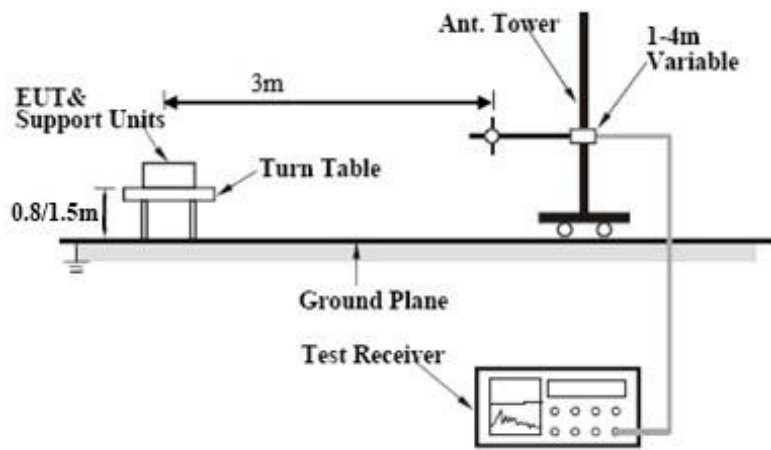
8DPSK - High CH 2480

## 6.7 Band Edge & Restricted Band

Temperature	24°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2018
Tested By :	Aaron Liang

### 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	
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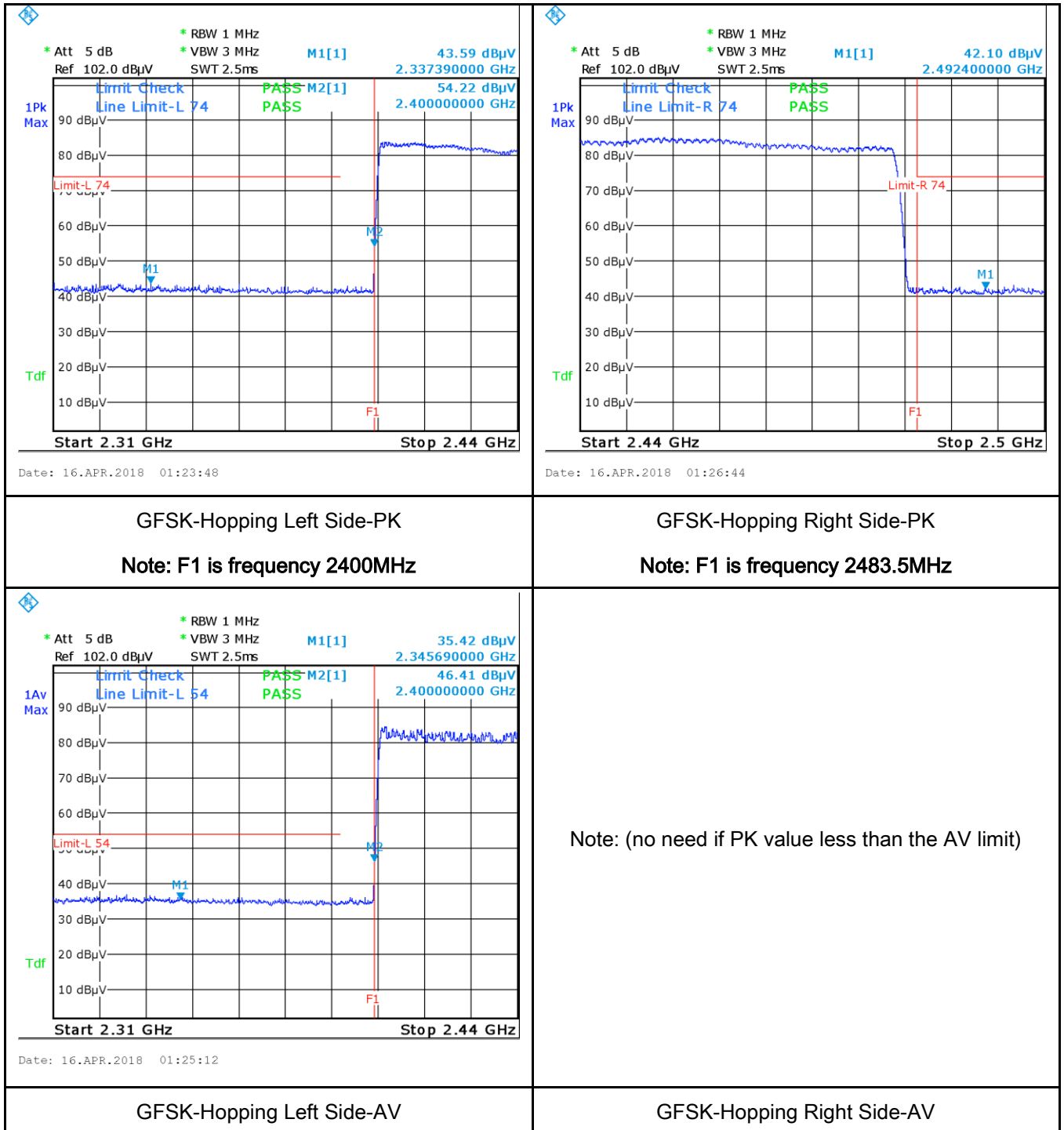
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Radiated Method Only</p> <ul style="list-style-type: none"> <li>1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.</li> <li>2. Position 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

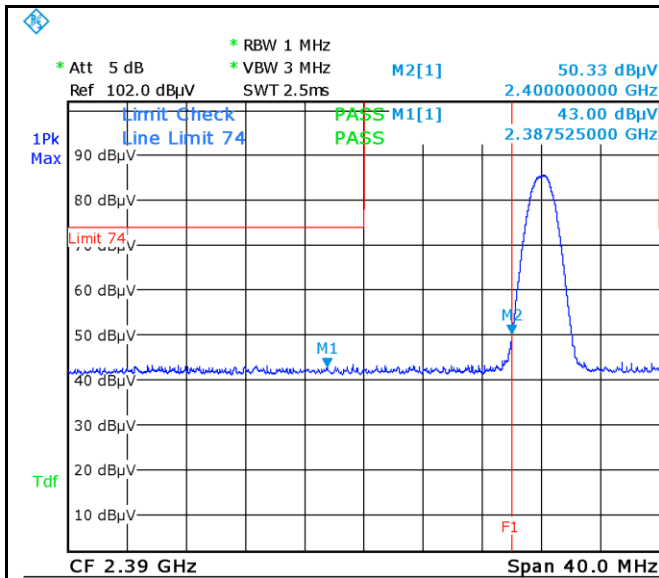
Test Data    ☐ Yes                      ☒ N/A  
Test Plot    ☒ Yes (See below)                      ☐ N/A

## Test Plots

### GFSK Mode:



Note: Both Horizontal and vertical polarities were investigated.



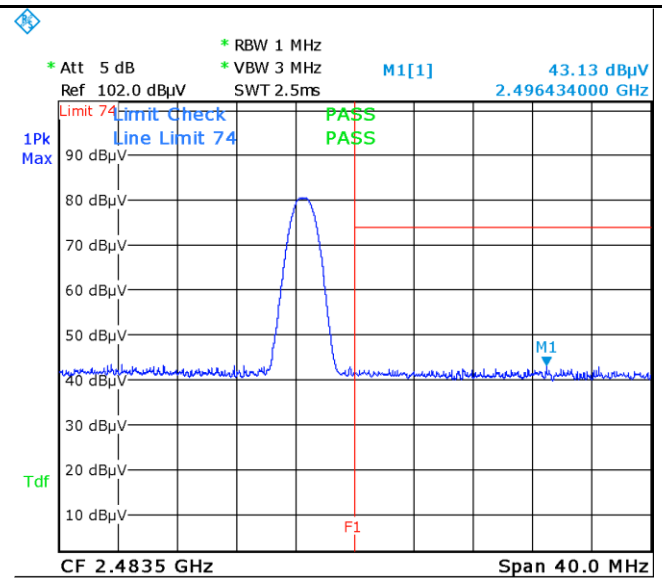
Date: 16.APR.2018 01:10:03

GFSK-Left Side-PK

Note: F1 is frequency 2400MHz

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

GFSK-Left Side-AV



Date: 16.APR.2018 01:14:51

GFSK-Right Side-PK

Note: F1 is frequency 2483.5MHz

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

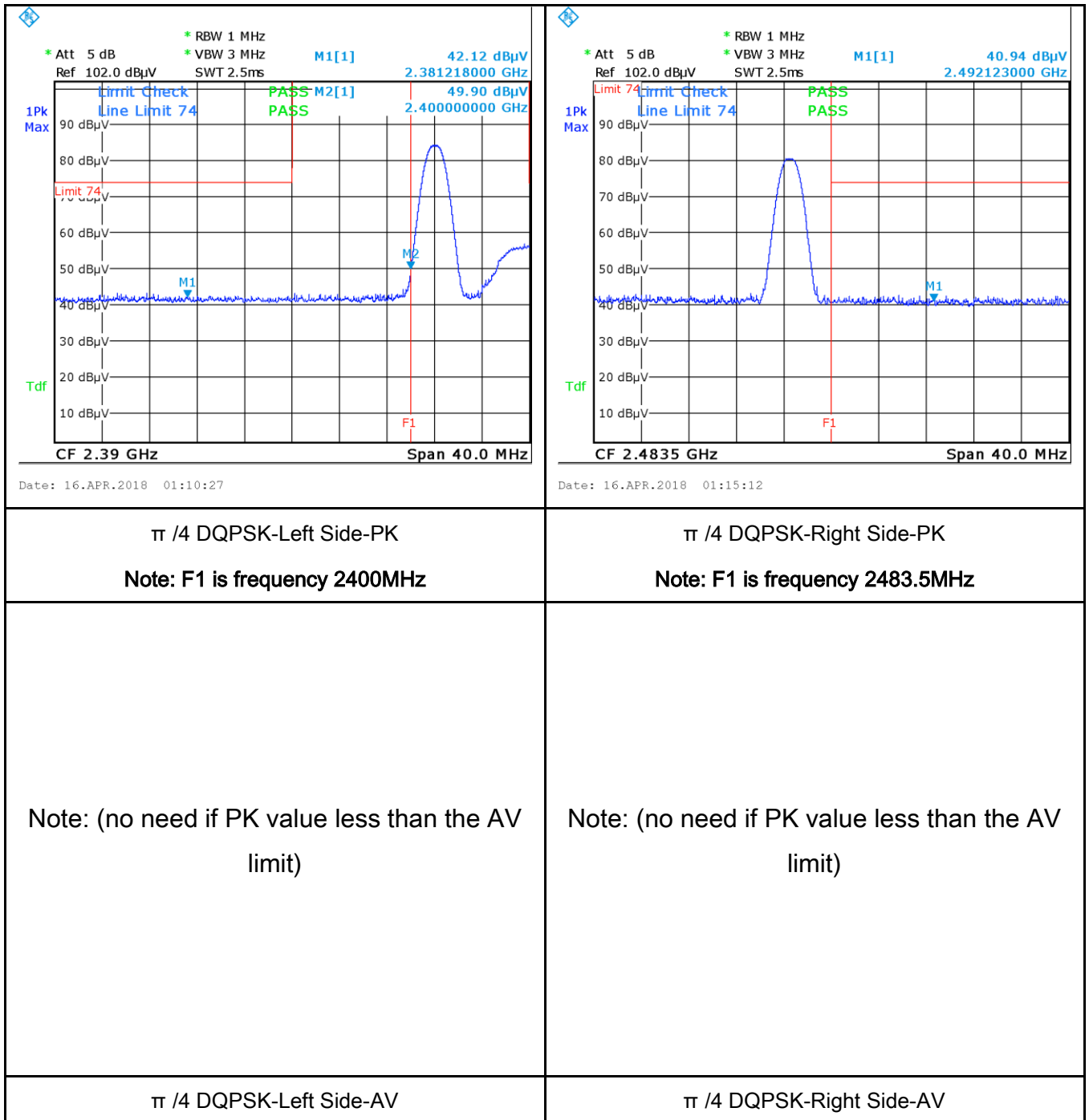
GFSK-Right Side-AV

Note: Both Horizontal and vertical polarities were investigated.

<p>* Att 5 dB Ref 102.0 dBμV RBW 1 MHz VBW 3 MHz SWT 2.5ms</p> <p>M1[1] 43.08 dBμV 2.343610000 GHz M2[1] 51.72 dBμV 2.400000000 GHz</p> <p>Limit Check Line Limit-L 74 PASS PASS</p> <p>1Pk Max 90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV</p> <p>Tdf</p> <p>Start 2.31 GHz Stop 2.44 GHz</p> <p>Date: 16.APR.2018 01:24:07</p>	<p>* Att 5 dB Ref 102.0 dBμV RBW 1 MHz VBW 3 MHz SWT 2.5ms</p> <p>M1[1] 43.16 dBμV 2.497070000 GHz</p> <p>Limit Check Line Limit-R 74 PASS PASS</p> <p>1Pk Max 90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV</p> <p>Tdf</p> <p>Start 2.44 GHz Stop 2.5 GHz</p> <p>Date: 16.APR.2018 01:27:11</p>
<p><math>\pi/4</math> DQPSK-Hopping Left Side-PK</p> <p>Note: F1 is frequency 2400MHz</p>	<p><math>\pi/4</math> DQPSK-Hopping Right Side-PK</p> <p>Note: F1 is frequency 2483.5MHz</p>
<p>Note: (no need if PK value less than the AV limit)</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p><math>\pi/4</math> DQPSK-Hopping Left-AV</p>	<p><math>\pi/4</math> DQPSK-Hopping Right-AV</p>

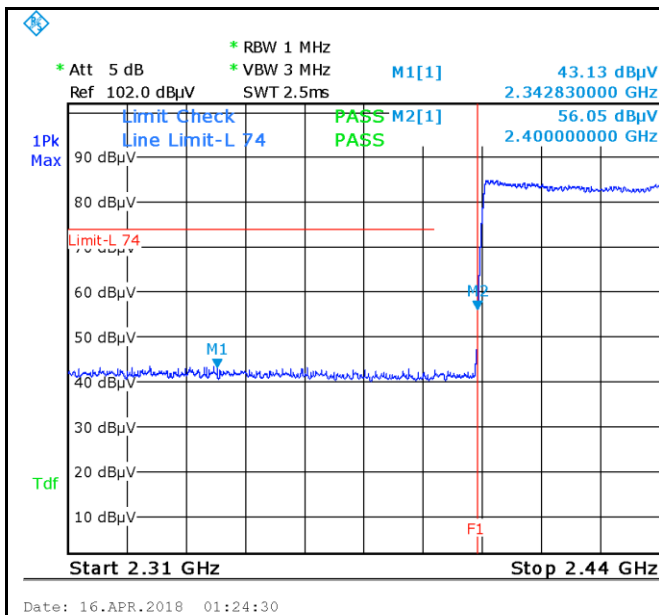
Note: Both Horizontal and vertical polarities were investigated.





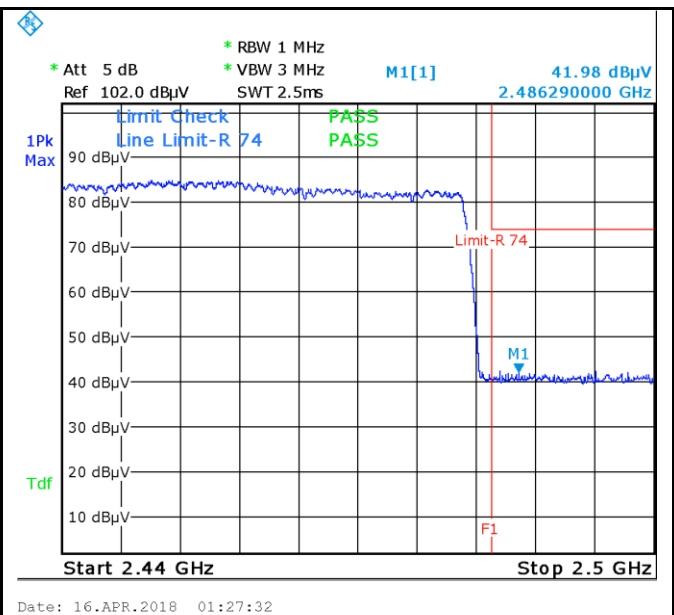
Note: Both Horizontal and vertical polarities were investigated.

## 8-DPSK Mode:



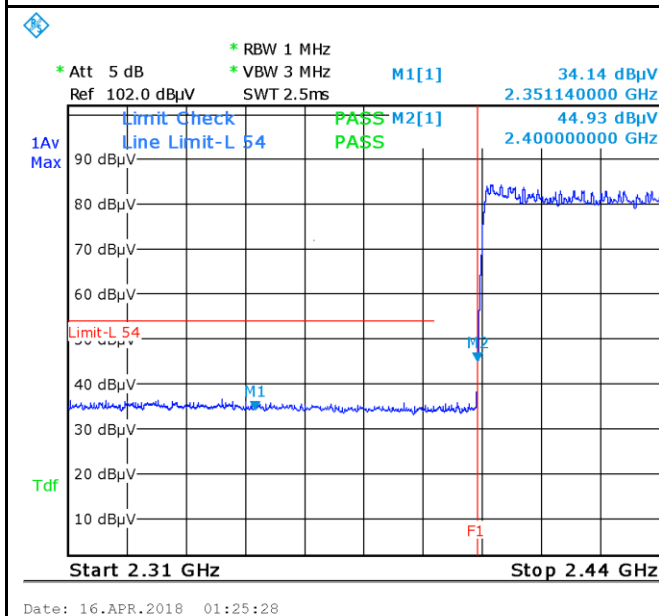
### 8DPSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz



### 8DPSK-Hopping Right Side-PK

Note: F1 is frequency 2483.5MHz

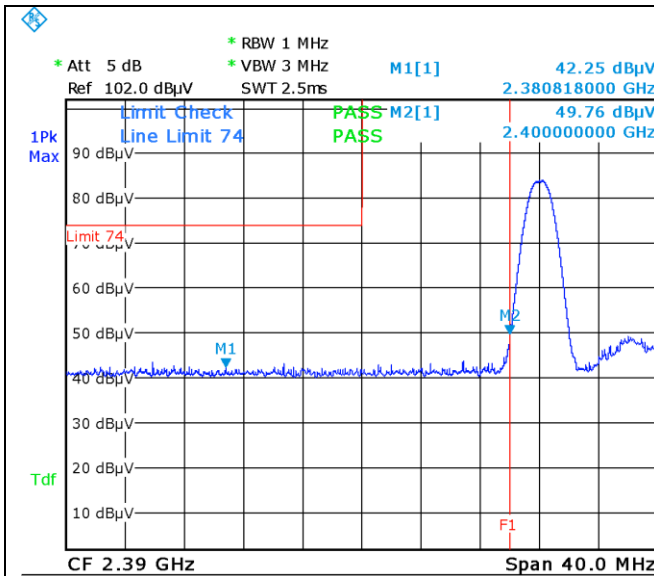


### 8DPSK-Hopping Left-AV

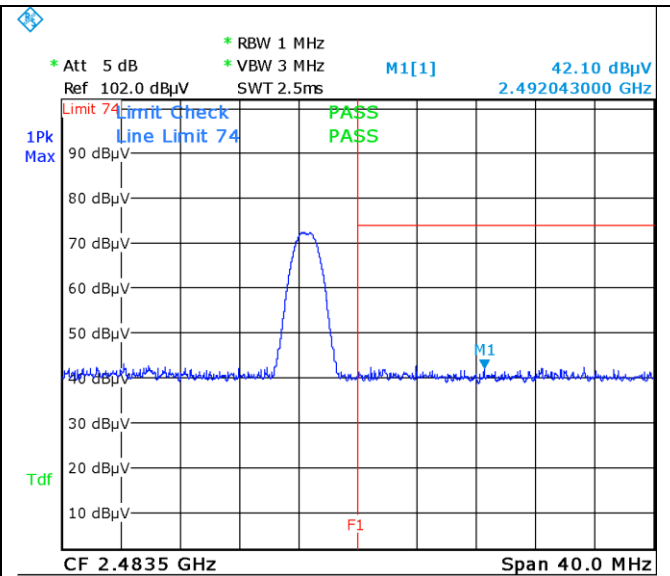
Note: (no need if PK value less than the AV limit)

### 8DPSK-Hopping Right-AV

Note: Both Horizontal and vertical polarities were investigated.



Date: 16.APR.2018 01:10:47



Date: 16.APR.2018 01:18:22

#### 8DPSK-Left Side-PK

Note: F1 is frequency 2400MHz

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

#### 8DPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz

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

#### 8DPSK-Left Side-AV

#### 8DPSK-Right Side-AV

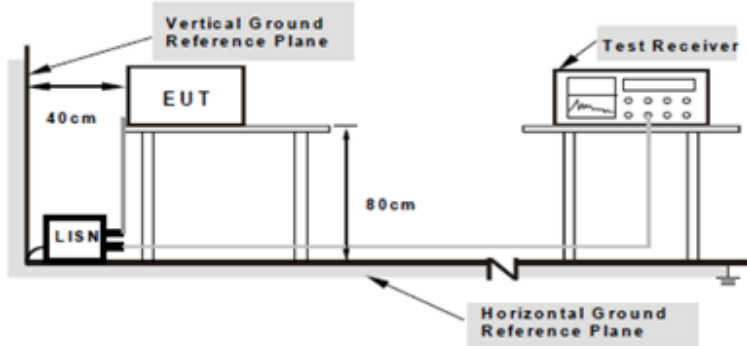
Note: Both Horizontal and vertical polarities were investigated.

## 6.8 AC Power Line Conducted Emissions

Temperature	24°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2018
Tested By :	Aaron Liang

### 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															

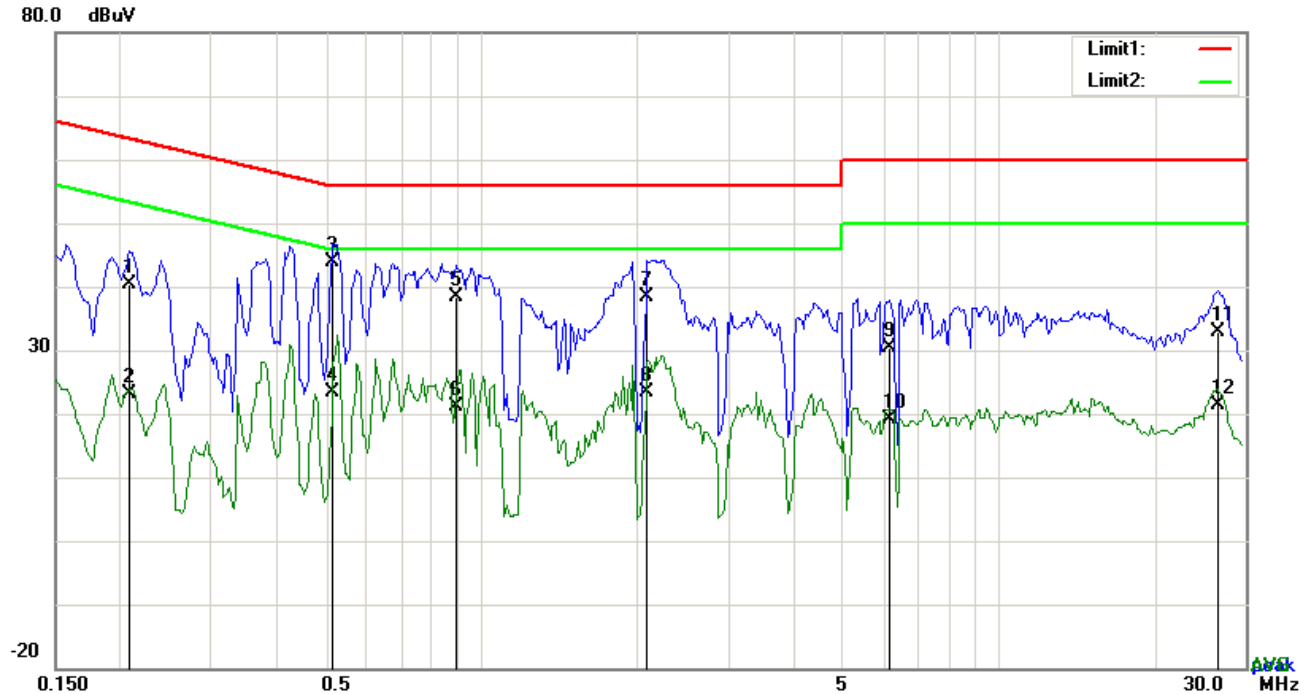
Test Setup	 <p>Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>
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Procedure	<ol style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss</li> </ol>
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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

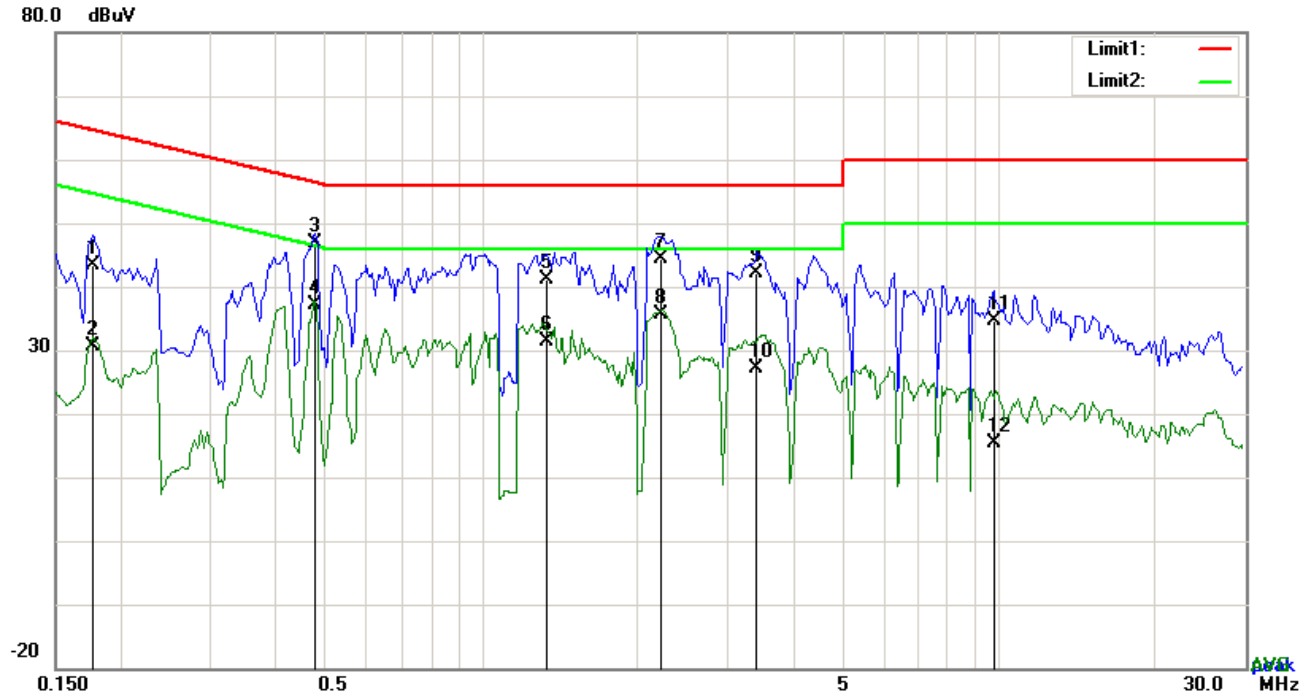


### Test Data

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2085	30.32	QP	10.03	40.35	63.26	-22.91
2	L1	0.2085	13.19	AVG	10.03	23.22	53.26	-30.04
3	L1	0.5166	33.77	QP	10.03	43.80	56.00	-12.20
4	L1	0.5166	13.26	AVG	10.03	23.29	46.00	-22.71
5	L1	0.8910	28.29	QP	10.03	38.32	56.00	-17.68
6	L1	0.8910	11.09	AVG	10.03	21.12	46.00	-24.88
7	L1	2.0922	28.44	QP	10.04	38.48	56.00	-17.52
8	L1	2.0922	13.41	AVG	10.04	23.45	46.00	-22.55
9	L1	6.1668	20.18	QP	10.10	30.28	60.00	-29.72
10	L1	6.1668	9.13	AVG	10.10	19.23	50.00	-30.77
11	L1	26.5092	22.57	QP	10.42	32.99	60.00	-27.01
12	L1	26.5092	10.95	AVG	10.42	21.37	50.00	-28.63

**Test Mode:** Bluetooth Mode

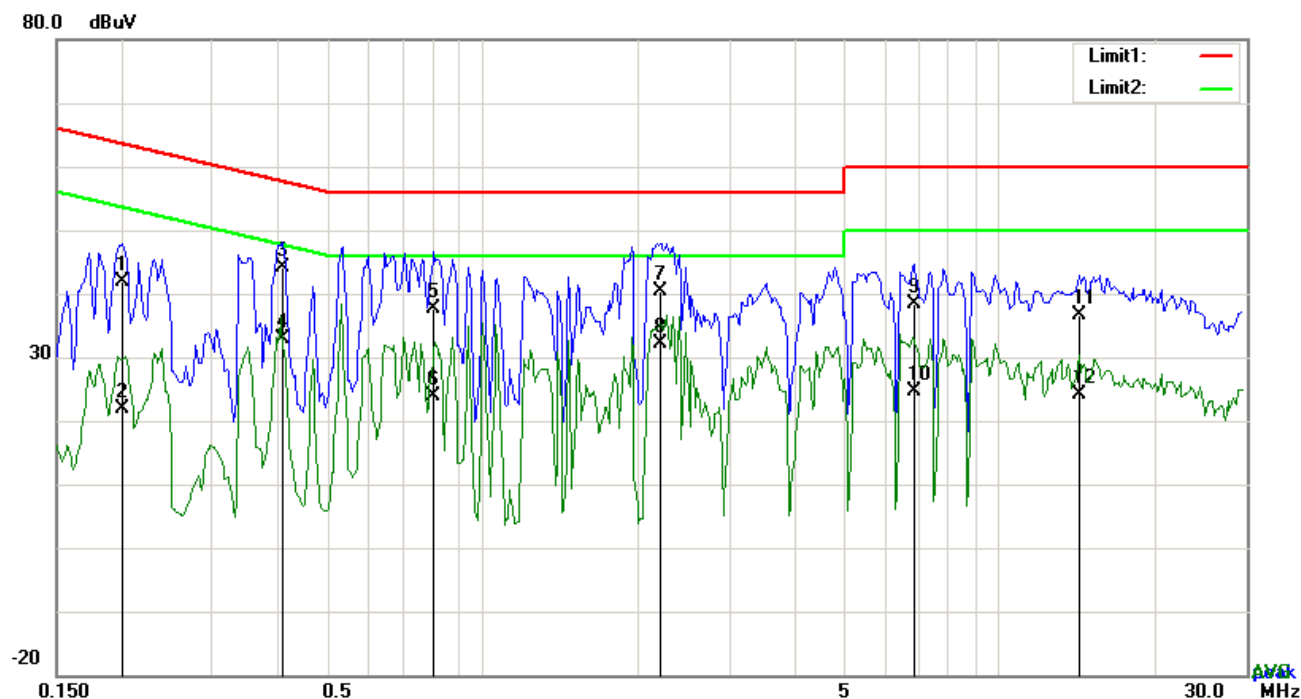


### Test Data

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1773	33.25	QP	10.02	43.27	64.61	-21.34
2	N	0.1773	20.59	AVG	10.02	30.61	54.61	-24.00
3	N	0.4776	36.75	QP	10.02	46.77	56.38	-9.61
4	N	0.4776	26.99	AVG	10.02	37.01	46.38	-9.37
5	N	1.3356	31.16	QP	10.03	41.19	56.00	-14.81
6	N	1.3356	21.35	AVG	10.03	31.38	46.00	-14.62
7	N	2.2170	34.25	QP	10.04	44.29	56.00	-11.71
8	N	2.2170	25.65	AVG	10.04	35.69	46.00	-10.31
9	N	3.4056	32.16	QP	10.05	42.21	56.00	-13.79
10	N	3.4056	17.06	AVG	10.05	27.11	46.00	-18.89
11	N	9.7587	24.45	QP	10.14	34.59	60.00	-25.41
12	N	9.7587	5.26	AVG	10.14	15.40	50.00	-34.60

**Test Mode:** Bluetooth Mode



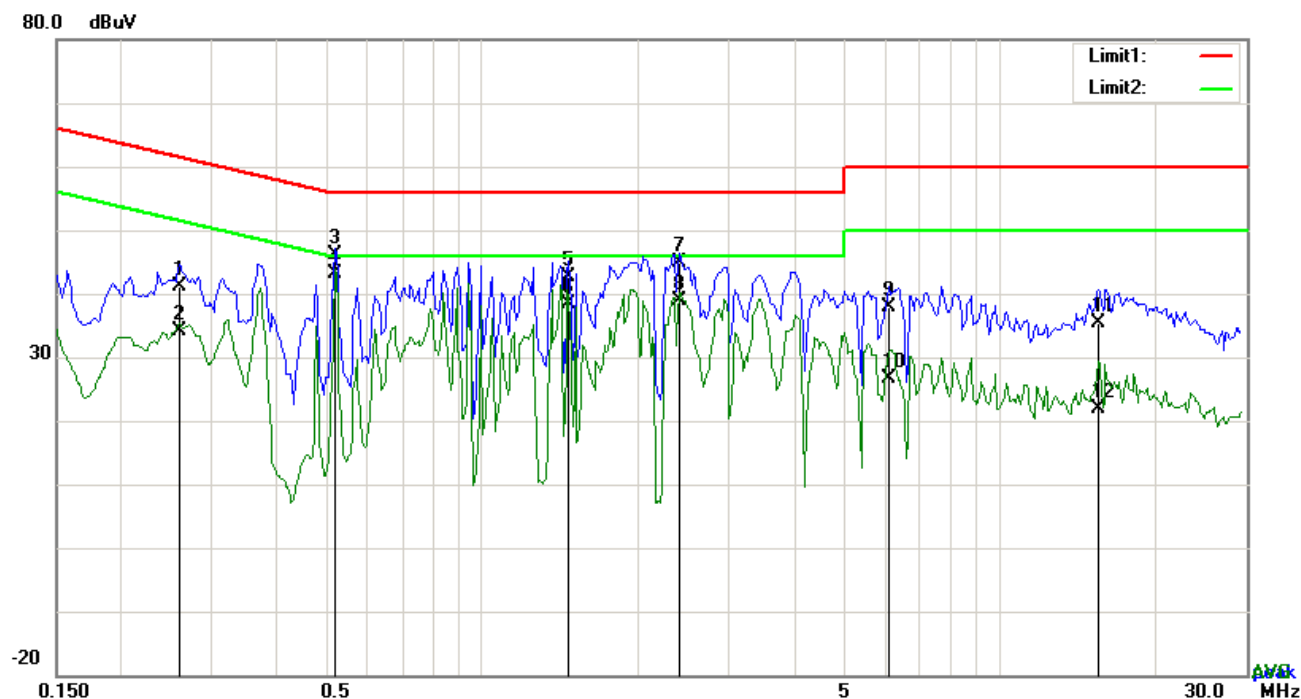
### Test Data

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2007	31.96	QP	10.02	41.98	63.58	-21.60
2	L1	0.2007	11.92	AVG	10.02	21.94	53.58	-31.64
3	L1	0.4113	34.14	QP	10.02	44.16	57.62	-13.46
4	L1	0.4113	22.74	AVG	10.02	32.76	47.62	-14.86
5	L1	0.8052	27.72	QP	10.03	37.75	56.00	-18.25
6	L1	0.8052	13.83	AVG	10.03	23.86	46.00	-22.14
7	L1	2.2092	30.32	QP	10.04	40.36	56.00	-15.64
8	L1	2.2092	22.08	AVG	10.04	32.12	46.00	-13.88
9	L1	6.8064	28.16	QP	10.10	38.26	60.00	-21.74
10	L1	6.8064	14.41	AVG	10.10	24.51	50.00	-25.49
11	L1	14.2164	26.52	QP	10.19	36.71	60.00	-23.29
12	L1	14.2164	13.84	AVG	10.19	24.03	50.00	-25.97



**Test Mode:** Bluetooth Mode



### Test Data

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

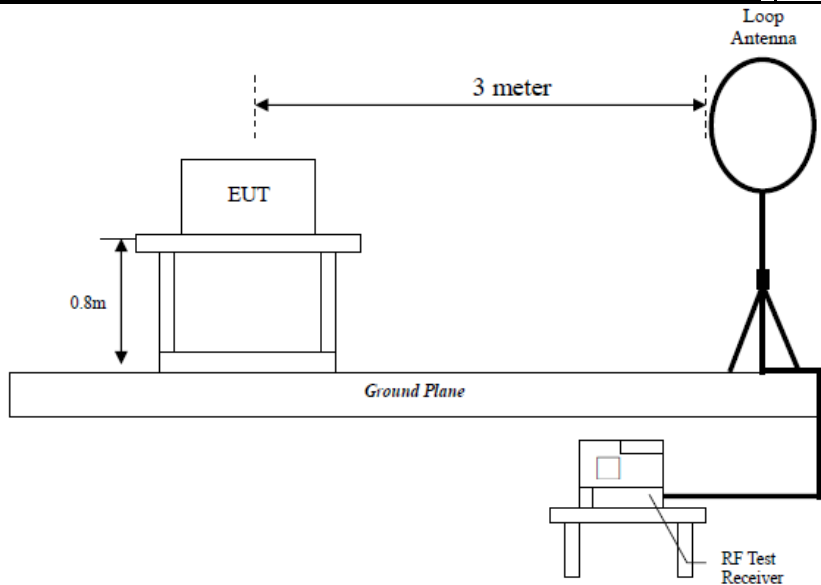
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.2592	31.20	QP	10.02	41.22	61.46	-20.24
2	N	0.2592	24.03	AVG	10.02	34.05	51.46	-17.41
3	N	0.5205	36.10	QP	10.02	46.12	56.00	-9.88
4	N	0.5205	33.13	AVG	10.02	43.15	46.00	-2.85
5	N	1.4643	32.54	QP	10.03	42.57	56.00	-13.43
6	N	1.4643	28.25	AVG	10.03	38.28	46.00	-7.72
7	N	2.4003	34.82	QP	10.04	44.86	56.00	-11.14
8	N	2.4003	28.85	AVG	10.04	38.89	46.00	-7.11
9	N	6.0888	27.75	QP	10.09	37.84	60.00	-22.16
10	N	6.0888	16.53	AVG	10.09	26.62	50.00	-23.38
11	N	15.5346	25.10	QP	10.21	35.31	60.00	-24.69
12	N	15.5346	11.57	AVG	10.21	21.78	50.00	-28.22

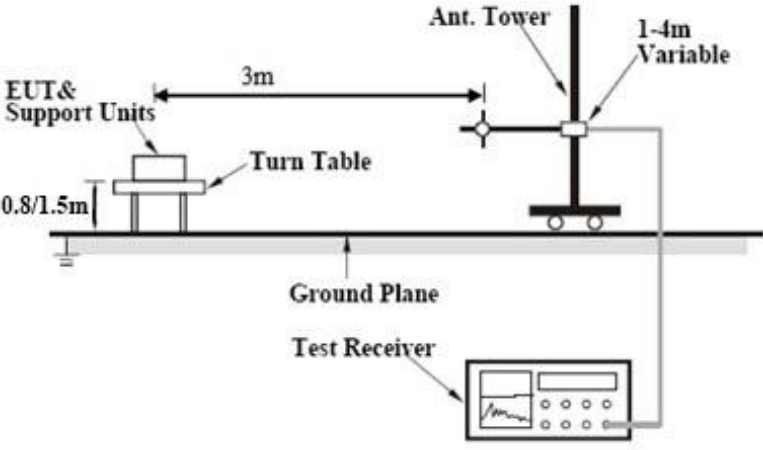
## 6.9 Radiated Emissions & Restricted Band

Temperature	24°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2018
Tested By :	Aaron Liang

### 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	<div><input checked="" type="checkbox"/></div>																
		<table><tr><th>Frequency range (MHz)</th><th>Field Strength (µV/m)</th></tr><tr><td>0.009~0.490</td><td>2400/F(KHz)</td></tr><tr><td>0.490~1.705</td><td>24000/F(KHz)</td></tr><tr><td>1.705~30.0</td><td>30</td></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)	0.009~0.490	2400/F(KHz)	0.490~1.705	24000/F(KHz)	1.705~30.0	30	30 – 88	100	88 – 216	150	216 960	200	Above 960	500
		Frequency range (MHz)		Field Strength (µV/m)															
		0.009~0.490		2400/F(KHz)															
		0.490~1.705		24000/F(KHz)															
		1.705~30.0		30															
		30 – 88		100															
		88 – 216		150															
		216 960		200															
		Above 960		500															

Test Setup	 <p>The diagram illustrates the test setup for radiated emissions. It shows an Equipment Under Test (EUT) placed on a stand that is 0.8 meters high. A Loop Antenna is positioned 3 meters away from the EUT. The entire setup is on a Ground Plane. An RF 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: <ol style="list-style-type: none"> <li>Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</li> <li>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.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</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 Result:

Test Mode:	Transmitting Mode
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Frequency range: 9KHz - 30MHz

Freq.	Detection	Factor	Reading	Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
--	--	--	--	--	--	>20
--	--	--	--	--	--	>20

### Note:

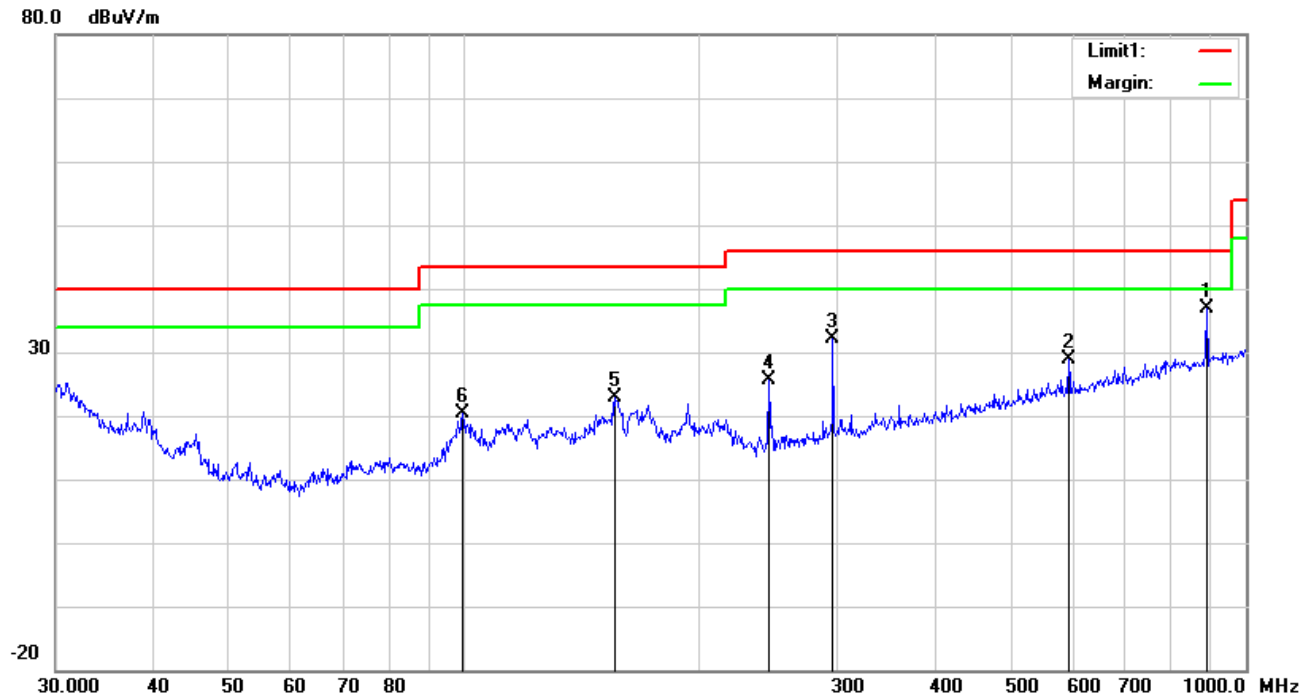
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log (\text{specific distance}/\text{test distance})$ (dB);

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

**Test Mode:** Bluetooth Mode

**30MHz -1GHz**



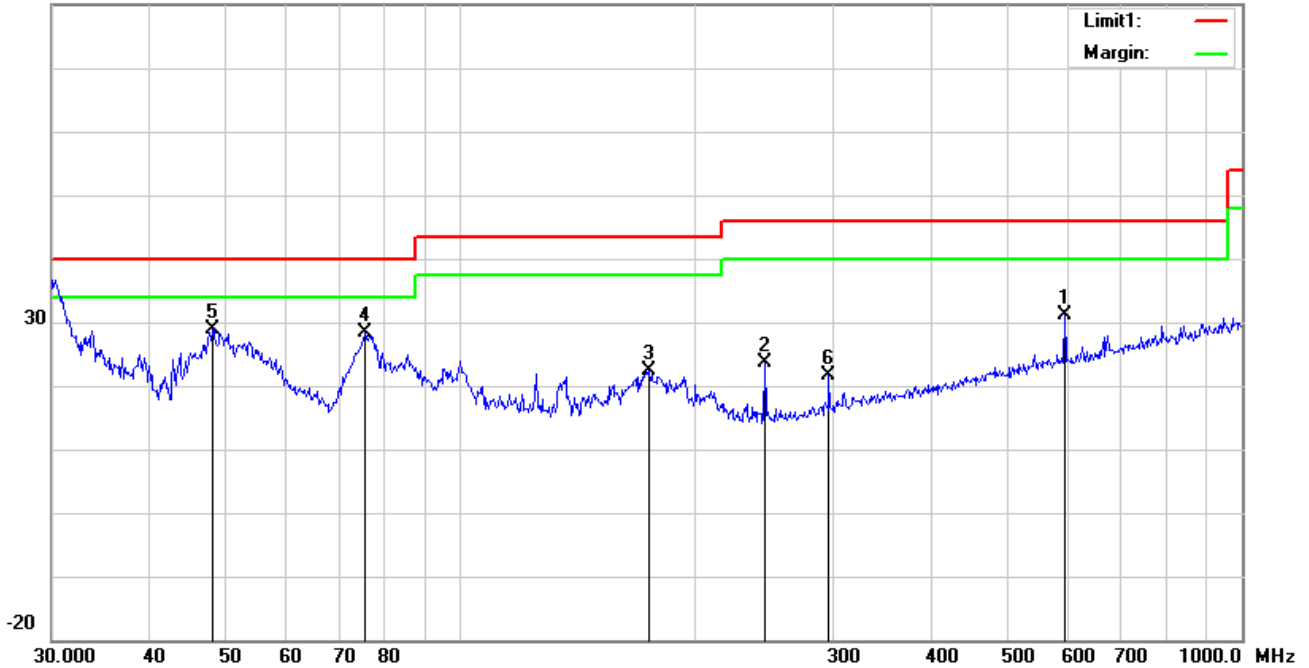
**Test Data**

**Horizontal Polarity Plot @3m**

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	( )
1	H	890.7278	32.44	peak	22.40	20.91	3.03	36.96	46.00	-9.04	100	51
2	H	593.0497	28.95	peak	19.00	21.60	2.49	28.84	46.00	-17.16	100	333
3	H	296.1836	39.19	peak	13.43	22.29	1.78	32.11	46.00	-13.89	100	261
4	H	245.0900	34.78	peak	11.47	22.30	1.68	25.63	46.00	-20.37	100	14
5	H	155.9101	31.16	peak	12.60	22.30	1.37	22.83	43.50	-20.67	200	256
6	H	99.5281	31.37	peak	10.29	22.32	1.11	20.45	43.50	-23.05	100	184

### 30MHz -1GHz

80.0 dBuV/m



### Test Data

#### Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	593.0497	31.19	peak	19.00	21.60	2.49	31.08	46.00	-14.92	100	234
2	V	245.0900	32.75	peak	11.47	22.30	1.68	23.60	46.00	-22.40	100	75
3	V	174.4241	31.81	peak	11.45	22.26	1.36	22.36	43.50	-21.14	100	161
4	V	75.4464	42.15	peak	7.69	22.40	0.97	28.41	40.00	-11.59	100	142
5	V	48.1626	41.31	peak	9.21	22.35	0.78	28.95	40.00	-11.05	100	96
6	V	296.1836	28.64	peak	13.43	22.29	1.78	21.56	46.00	-24.44	100	240

## Above 1GHz

Test Mode:	Transmitting Mode
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### Low Channel: GFSK Mode (Worst Case) (2402 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4804	46.87	AV	V	33.39	7.22	48.46	39.02	54	-14.98
4804	45.98	AV	H	33.39	7.22	48.46	38.13	54	-15.87
4804	67.64	PK	V	33.39	7.22	48.46	59.79	74	-14.21
4804	62.4	PK	H	33.39	7.22	48.46	54.55	74	-19.45
13059	26.2	AV	V	41.07	13.55	46.82	34	54	-20
13059	24.66	AV	H	41.07	13.55	46.82	32.46	54	-21.54
13059	43.35	PK	V	41.07	13.55	46.82	51.15	74	-22.85
13059	47.78	PK	H	41.07	13.55	46.82	55.58	74	-18.42

### Middle Channel: GFSK Mode (Worst Case) (2441 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4882	46.36	AV	V	33.62	7.53	48.36	39.15	54	-14.85
4882	42.72	AV	H	33.62	7.53	48.36	35.51	54	-18.49
4882	70.72	PK	V	33.62	7.53	48.36	63.51	74	-10.49
4882	67.22	PK	H	33.62	7.53	48.36	60.01	74	-13.99
13199	26.03	AV	V	40.42	13.74	47.17	33.02	54	-20.98
13199	25.88	AV	H	40.42	13.74	47.17	32.87	54	-21.13
13199	45.03	PK	V	40.42	13.74	47.17	52.02	74	-21.98
13199	47.13	PK	H	40.42	13.74	47.17	54.12	74	-19.88

**High Channel: GFSK Mode (Worst Case) (2480 MHz)**

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4960	43.88	AV	V	33.89	7.86	48.31	37.32	54	-16.68
4960	49.35	AV	H	33.89	7.86	48.31	42.79	54	-11.21
4960	68.9	PK	V	33.89	7.86	48.31	62.34	74	-11.66
4960	62.28	PK	H	33.89	7.86	48.31	55.72	74	-18.28
17924	22.8	AV	V	42.45	19.4	43.92	40.73	54	-13.27
17924	22.1	AV	H	42.45	19.4	43.92	40.03	54	-13.97
17924	41.11	PK	V	42.45	19.4	43.92	59.04	74	-14.96
17924	43.18	PK	H	42.45	19.4	43.92	61.11	74	-12.89

**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.

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



## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted</b>					
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
ISN	ISN T800	34373	09/23/2017	09/22/2018	<input type="checkbox"/>
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	<input type="checkbox"/>
<b>RF conducted test</b>					
Agilent ESA-E SERIES	E4407B	MY45108319	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/17/2017	11/16/2018	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/22/2018	03/21/2019	<input checked="" type="checkbox"/>
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	<input checked="" type="checkbox"/>
Active Antenna (9kHz-30MHz)	AL-130	121031	10/12/2017	10/11/2018	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/22/2017	09/21/2018	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>

## Annex B. EUT And Test Setup Photographs

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

Whole Package View



Adapter - Label View

