

RF TEST REPORT



Report No.: 17070259-FCC-R

Supersede Report No.: N/A

Applicant	Verykool USA Inc	
Product Name	Mini Bluetooth Speaker	
Model No.	VI1400	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2016, ANSI C63.10: 2013	
Test Date	April 18 to May 04, 2017	
Issue Date	May 05, 2017	
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	
<p>This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only</p>		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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

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

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

Laboratories Introduction

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



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

Accreditations for Conformity Assessment

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

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070259-FCC-R	NONE	Original	May 05, 2017

2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, California 92122 United States
Manufacturer	NAMO COMMUNIATION TECHNOLOGY (HK) LIMITED
Manufacturer Add	Room 310-311; Building 2, Block A, GuangXingYuan Internet Industry base, 1009 BaoYuan Road, BaoAn distric, Shenzhen

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 of Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of Conducted Emission	EZ-EMC(ver.lcp-03A1)

4. Equipment under Test (EUT) Information

Description of EUT:	Mini Bluetooth Speaker
Main Model:	V11400
Serial Model:	N/A
Date EUT received:	April 17, 2017
Test Date(s):	April 18 to May 04, 2017
Equipment Category :	DSS
Antenna Gain:	0dBi
Antenna Type:	PCB antenna
Type of Modulation:	Bluetooth: GFSK, π /4DQPSK, 8DPSK
Max. Output Power:	-3.967dBm
RF Operating Frequency (ies):	Bluetooth: 2402-2480 MHz
Number of Channels:	Bluetooth: 79CH
Port:	USB Port
Input Power:	Battery: Model:672125 Spec: AC 3.7V, 280mAh USB:DC 5V
Trade Name :	veryKool
FCC ID:	WA6VI1400

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 1 antenna:

A permanently attached PCB antenna for Bluetooth, the gain is 0dBi for Bluetooth.

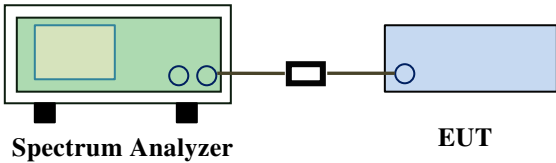
The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 Channel Separation

Temperature	22°C
Relative Humidity	54%
Atmospheric Pressure	1002mbar
Test date :	May 04, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.247(a)(1)	a)	Channel Separation < 20dB BW and 20dB BW < 25KHz ; Channel Separation Limit=25KHz Chanel Separation < 20dB BW and 20dB BW > 25kHz ; Channel Separation Limit=2/3 20dB BW	<input checked="" type="checkbox"/>
Test Setup	 <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"> - The EUT must have its hopping function enabled - Span = wide enough to capture the peaks of two adjacent channels - Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span - Video (or Average) Bandwidth (VBW) ≥ RBW - Sweep = auto - Detector function = peak - Trace = max hold - Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section. Submit this plot. 		

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

Test Data Yes N/A

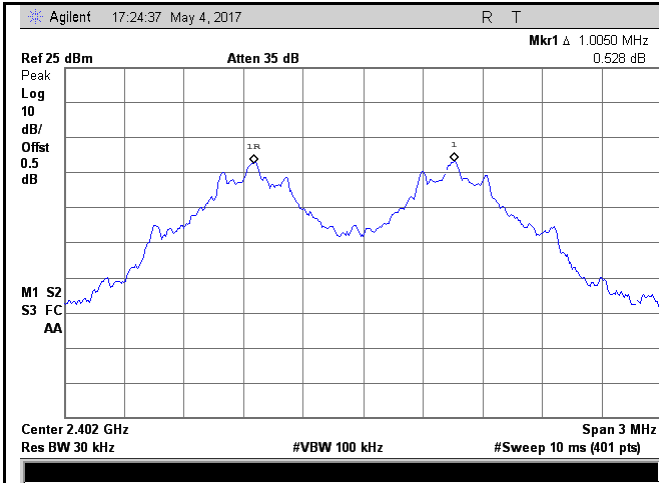
Test Plot Yes (See below) N/A

Channel Separation measurement result

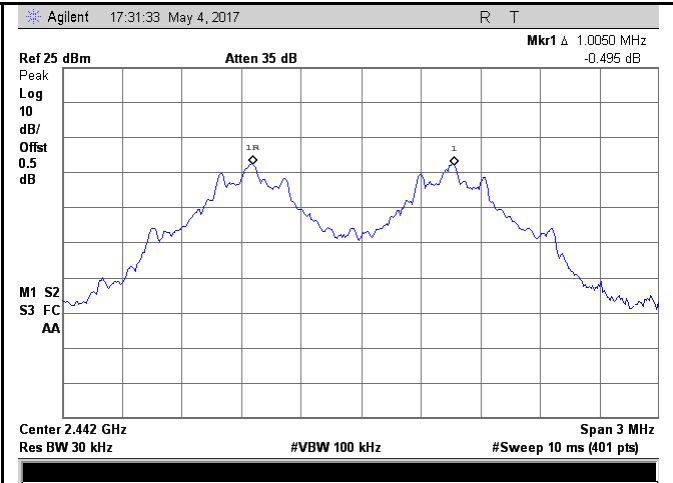
Type/ Modulation	CH	CH Frequency (MHz)	CH Separation (MHz)	Limit (MHz)	Result
CH Separation GFSK	Low Channel	2402	1.005	0.688	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.005	0.690	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.005	0.689	Pass
	Adjacency Channel	2479			
CH Separation $\pi/4$ DQPSK	Low Channel	2402	1.005	0.749	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.005	0.753	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.005	0.758	Pass
	Adjacency Channel	2479			
CH Separation 8DPSK	Low Channel	2402	1.005	0.690	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.005	0.691	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.005	0.687	Pass
	Adjacency Channel	2479			

Test Plots

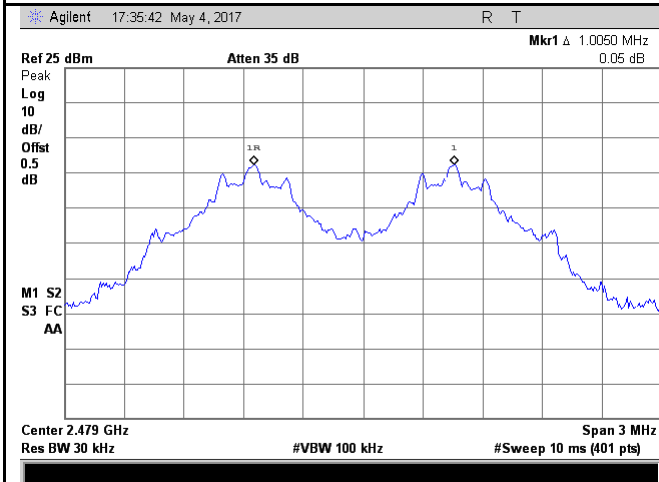
Channel Separation measurement result



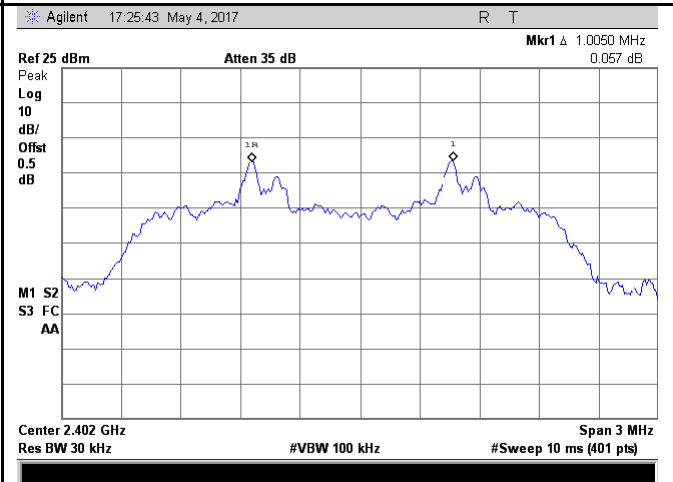
GFSK - Low Channel



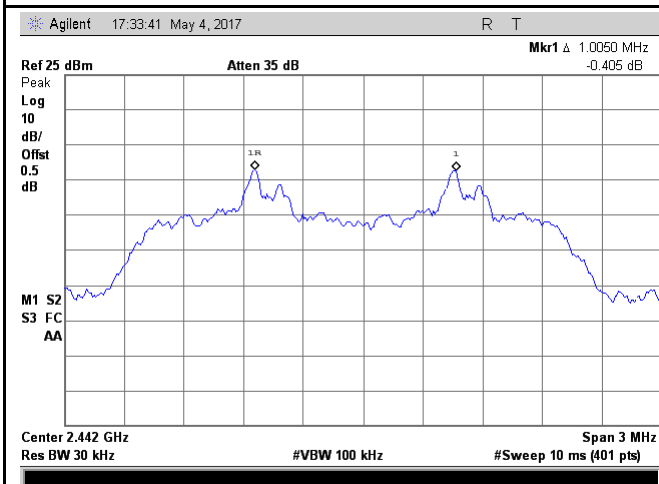
GFSK - Middle Channel



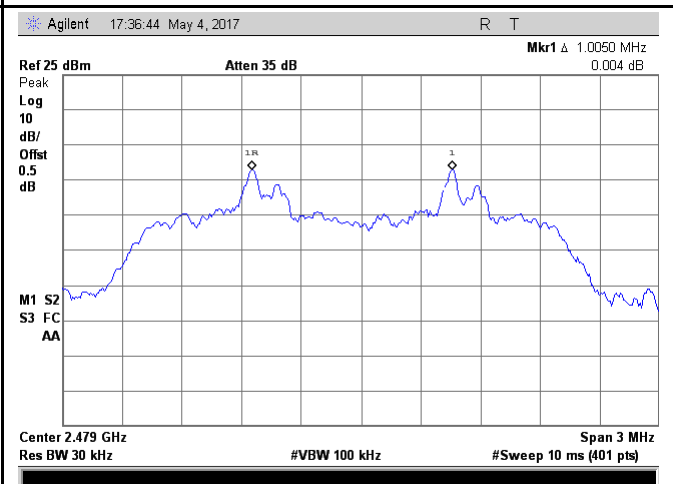
GFSK - High Channel



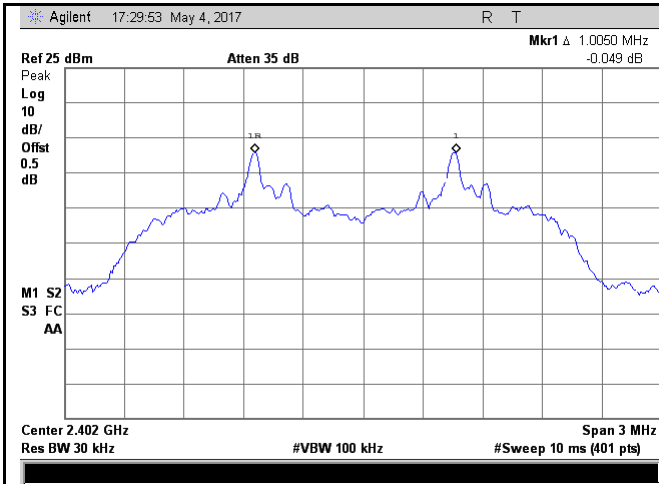
$\pi/4$ DPSK - Low Channel



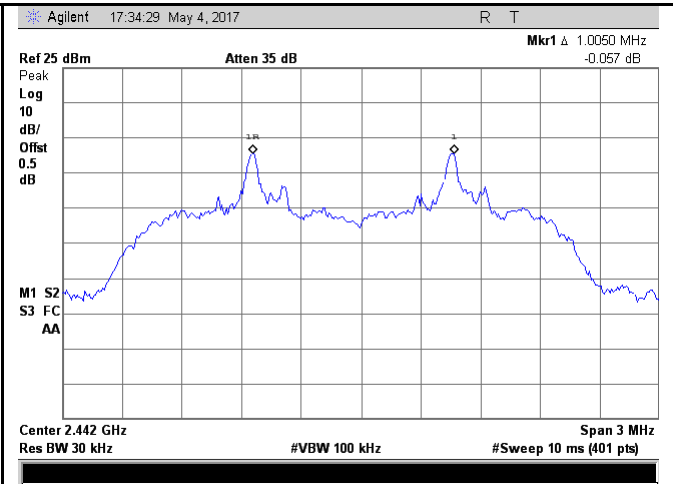
$\pi/4$ DQPSK - Middle Channel



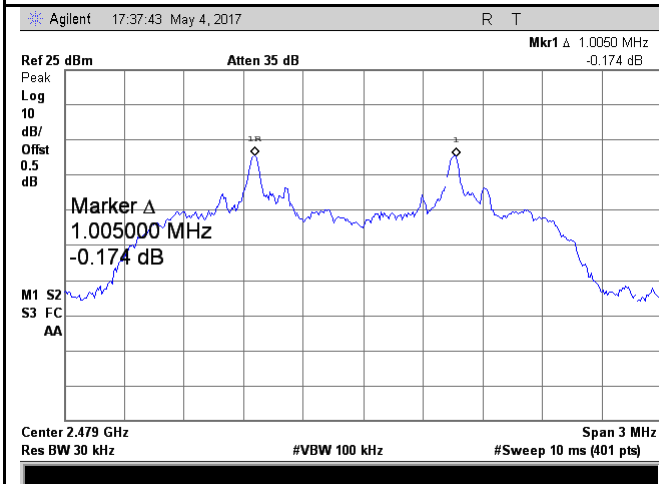
$\pi/4$ DQPSK - High Channel



8DPSK - Low Channel



8DPSK - Middle Channel



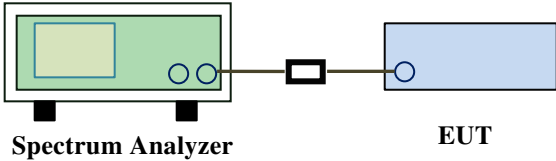
8DPSK - High Channel

6.3 20dB Bandwidth

Temperature	22°C
Relative Humidity	54%
Atmospheric Pressure	1002mbar
Test date :	May 04, 2017
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	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
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Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</p> <p><u>Use the following spectrum analyzer settings:</u></p> <ul style="list-style-type: none"> - Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel - RBW \geq 1% of the 20 dB bandwidth - VBW \geq RBW - Sweep = auto - Detector function = peak - Trace = max hold. - The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference
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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

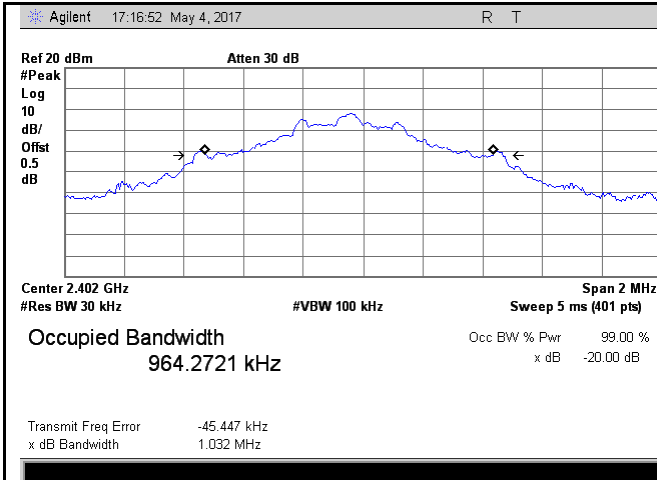
Test Plot Yes (See below) N/A

Measurement result

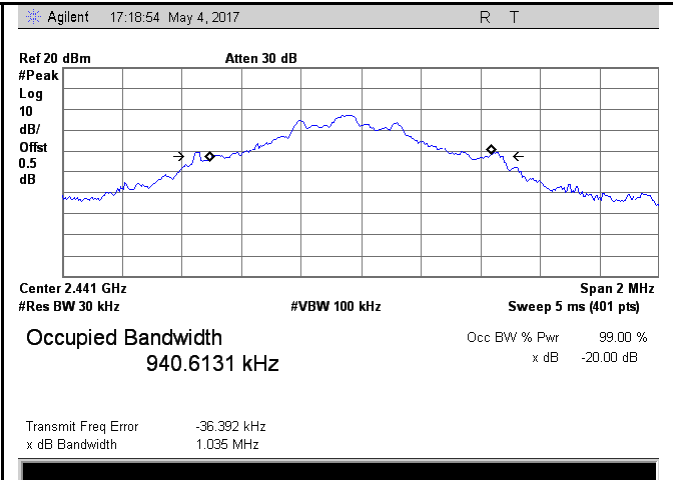
Modulation	CH	CH Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
GFSK	Low	2402	1.032	0.9643
	Mid	2441	1.035	0.9406
	High	2480	1.033	0.9439
π /4 DQPSK	Low	2402	1.123	1.1314
	Mid	2441	1.130	1.1322
	High	2480	1.137	1.1351
8-DPSK	Low	2402	1.035	1.1051
	Mid	2441	1.036	1.1061
	High	2480	1.030	1.1003

Test Plots

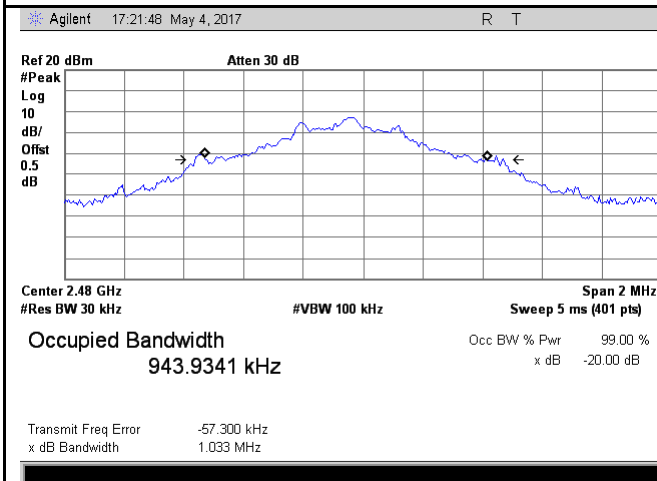
20dB Bandwidth measurement result



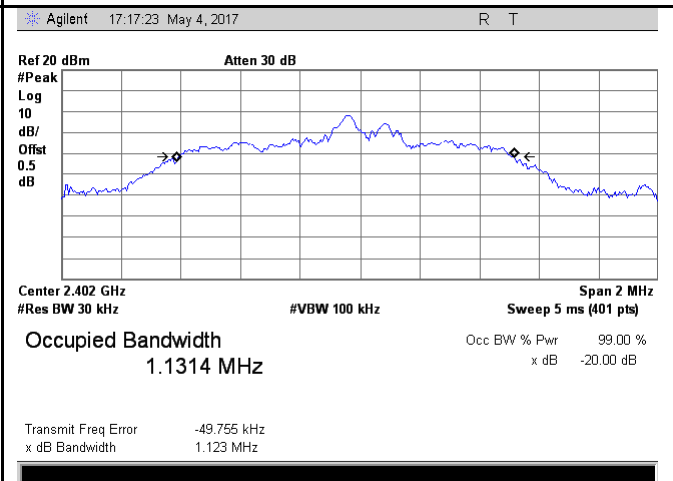
GFSK - Low Channel



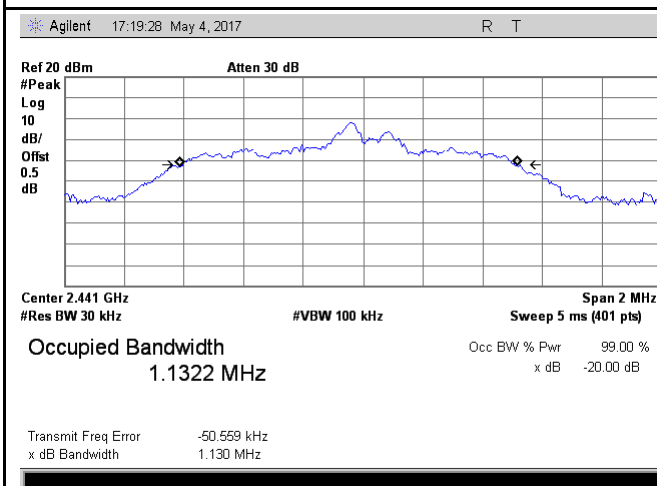
GFSK - Middle Channel



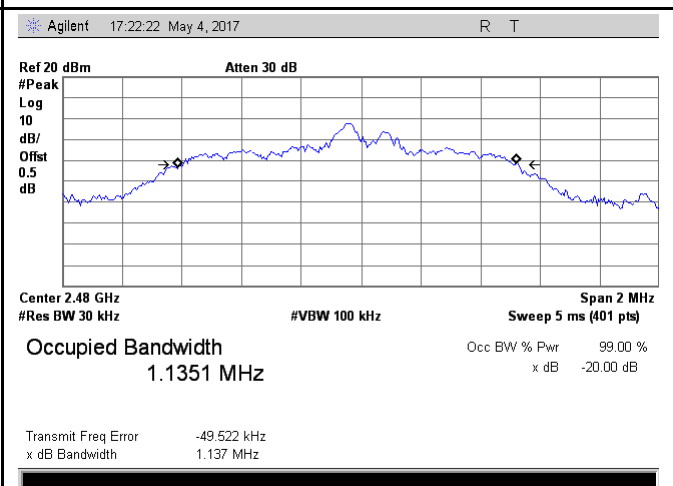
GFSK - High Channel



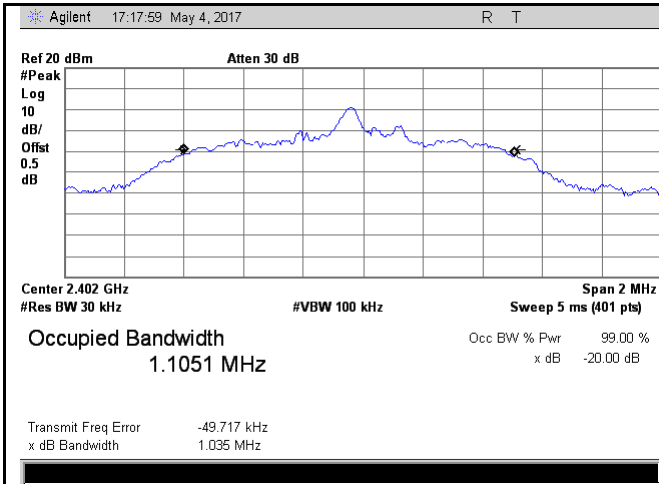
$\pi/4$ DPSK - Low Channel



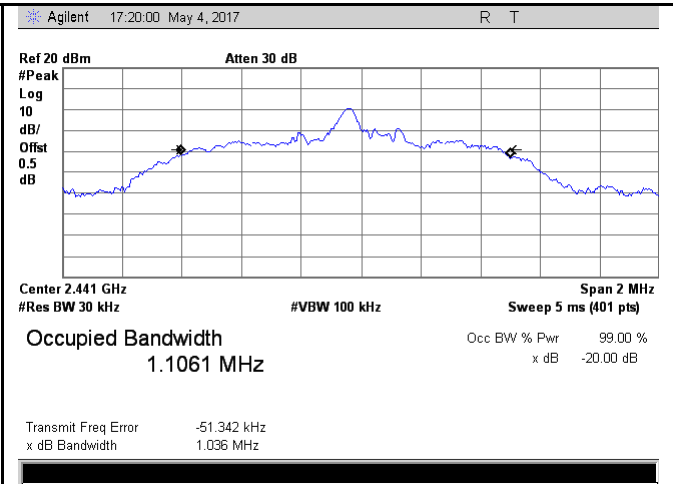
$\pi/4$ DQPSK - Middle Channel



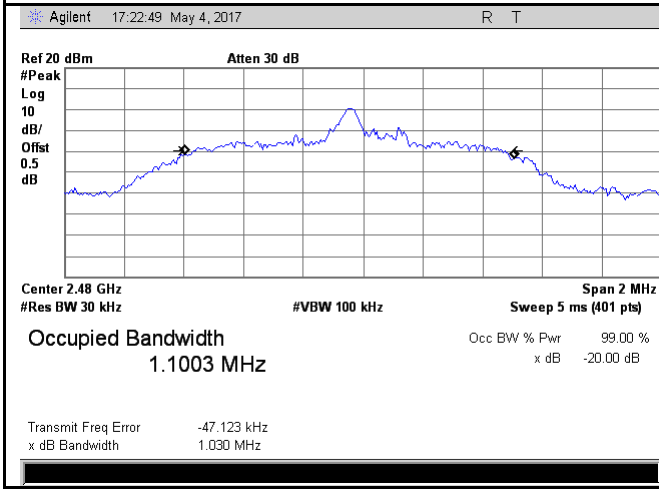
$\pi/4$ DQPSK - High Channel



8DPSK - Low Channel



8DPSK - Middle Channel



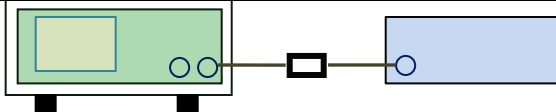
8DPSK - High Channel

6.4 Peak Output Power

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1025mbar
Test date :	April 25, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (3)	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt	<input checked="" type="checkbox"/>
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt	<input type="checkbox"/>
	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.	<input checked="" type="checkbox"/>
	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt	<input type="checkbox"/>
	e)	FHSS in 902-928MHz with ≥ 25 & < 50 channels: ≤ 0.25 Watt	<input type="checkbox"/>
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	<input type="checkbox"/>

Test Setup	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
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Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</p> <p><u>Use the following spectrum analyzer settings:</u></p> <ul style="list-style-type: none"> - Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel - RBW $>$ the 20 dB bandwidth of the emission being measured - VBW \geq RBW - Sweep = auto - Detector function = peak - Trace = max hold - Allow the trace to stabilize.
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	<ul style="list-style-type: none"> - Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power (see the note above regarding external attenuation and cable loss). The limit is specified in one of the subparagraphs of this Section. Submit this plot. A peak responding power meter may be used instead of a spectrum analyzer.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

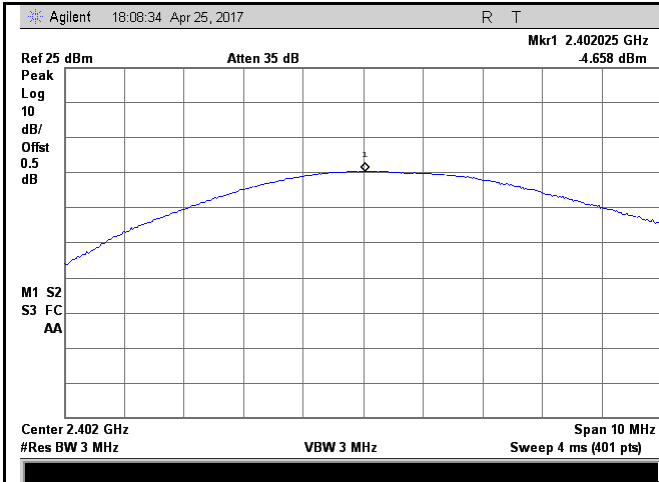
Test Data Yes N/A
 Test Plot Yes (See below) N/A

Peak Output Power measurement result

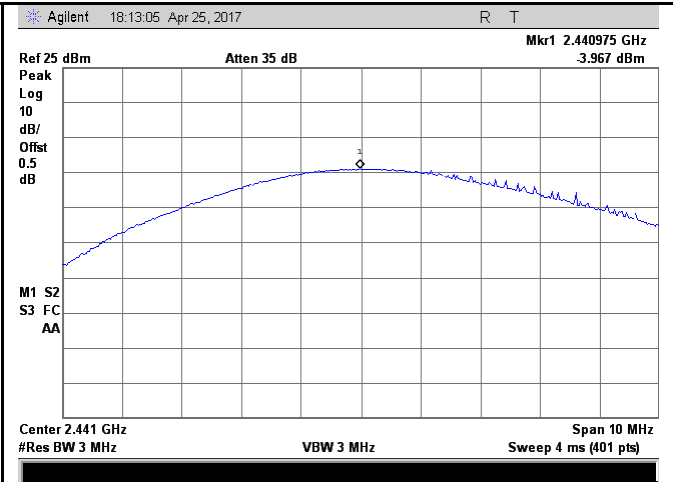
Type	Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power	GFSK	Low	2402	-4.658	125	Pass
		Mid	2441	-3.967	125	Pass
		High	2480	-4.776	125	Pass
	$\pi/4$ DQPSK	Low	2402	-4.667	125	Pass
		Mid	2441	-5.397	125	Pass
		High	2480	-5.852	125	Pass
	8-DPSK	Low	2402	-4.265	125	Pass
		Mid	2441	-5.082	125	Pass
		High	2480	-5.870	125	Pass

Test Plots

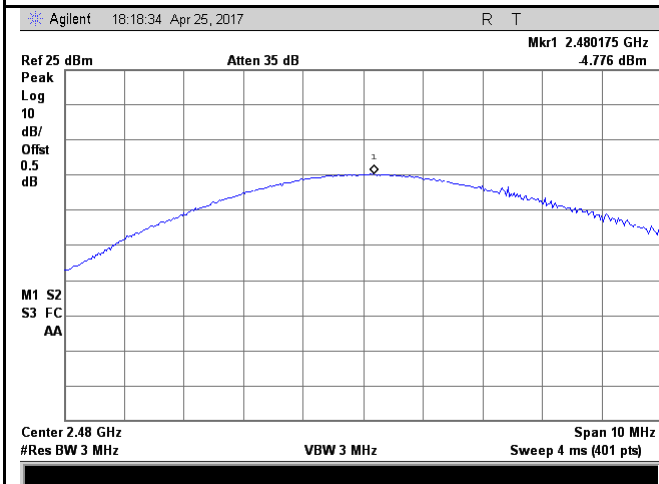
Output Power measurement result



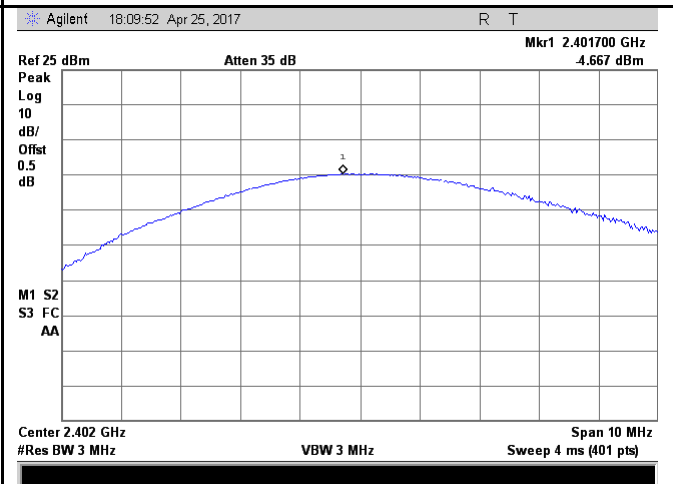
GFSK Output power - Low CH 2402



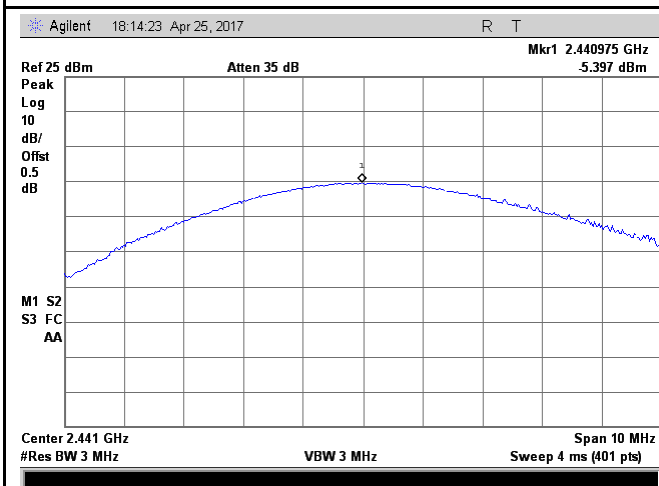
GFSK Output power - Mid CH 2441



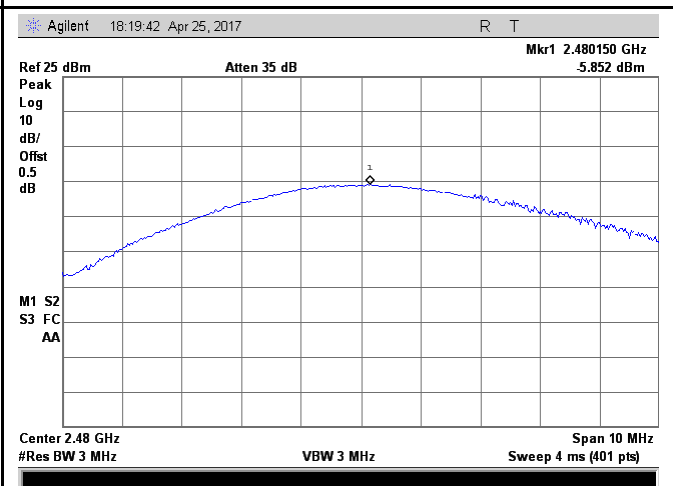
GFSK Output power - High CH 2480



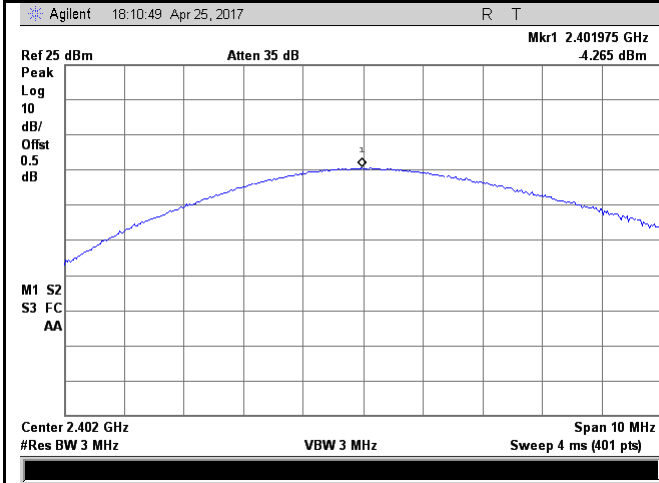
$\pi/4$ DQPSK Output power - Low CH 2402



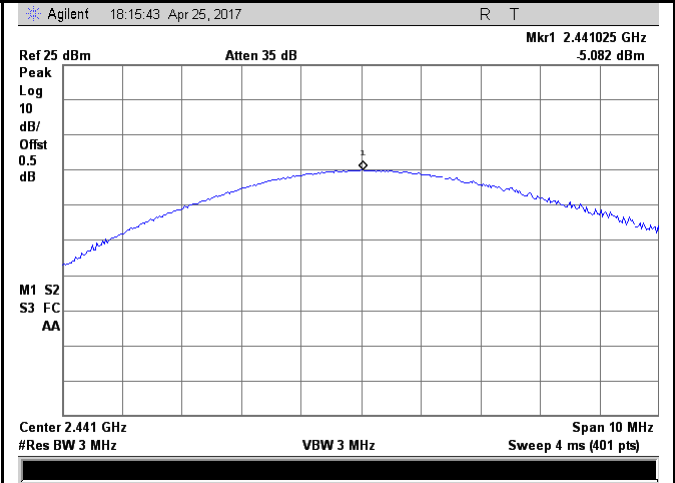
$\pi/4$ DQPSK Output power - Mid CH 2441



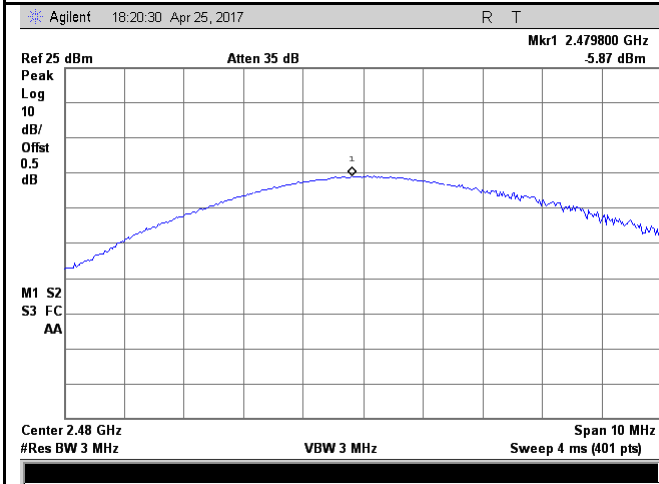
$\pi/4$ DQPSK Output power - High CH 2480



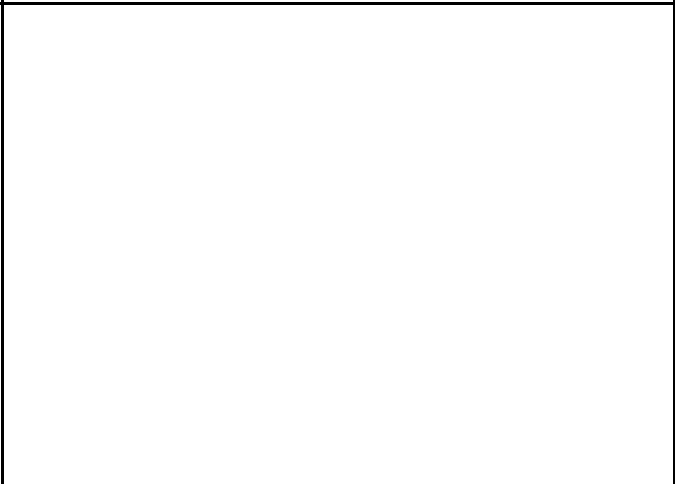
8DPSK Output power - Low CH 2402



8DPSK Output power - Mid CH 2441



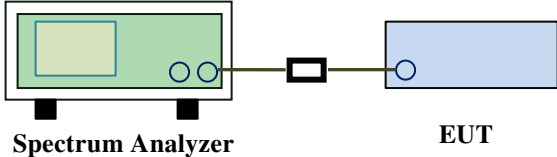
8DPSK Output power - High CH 2480



6.5 Number of Hopping Channel

Temperature	23°C
Relative Humidity	57%
Atmospheric Pressure	1027mbar
Test date :	April 26, 2017
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	 <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"> - Span = the frequency band of operation - RBW ≥ 1% of the span - VBW ≥ RBW - Sweep = auto - Detector function = peak - Trace = max hold - Allow trace to fully stabilize. - It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s). 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

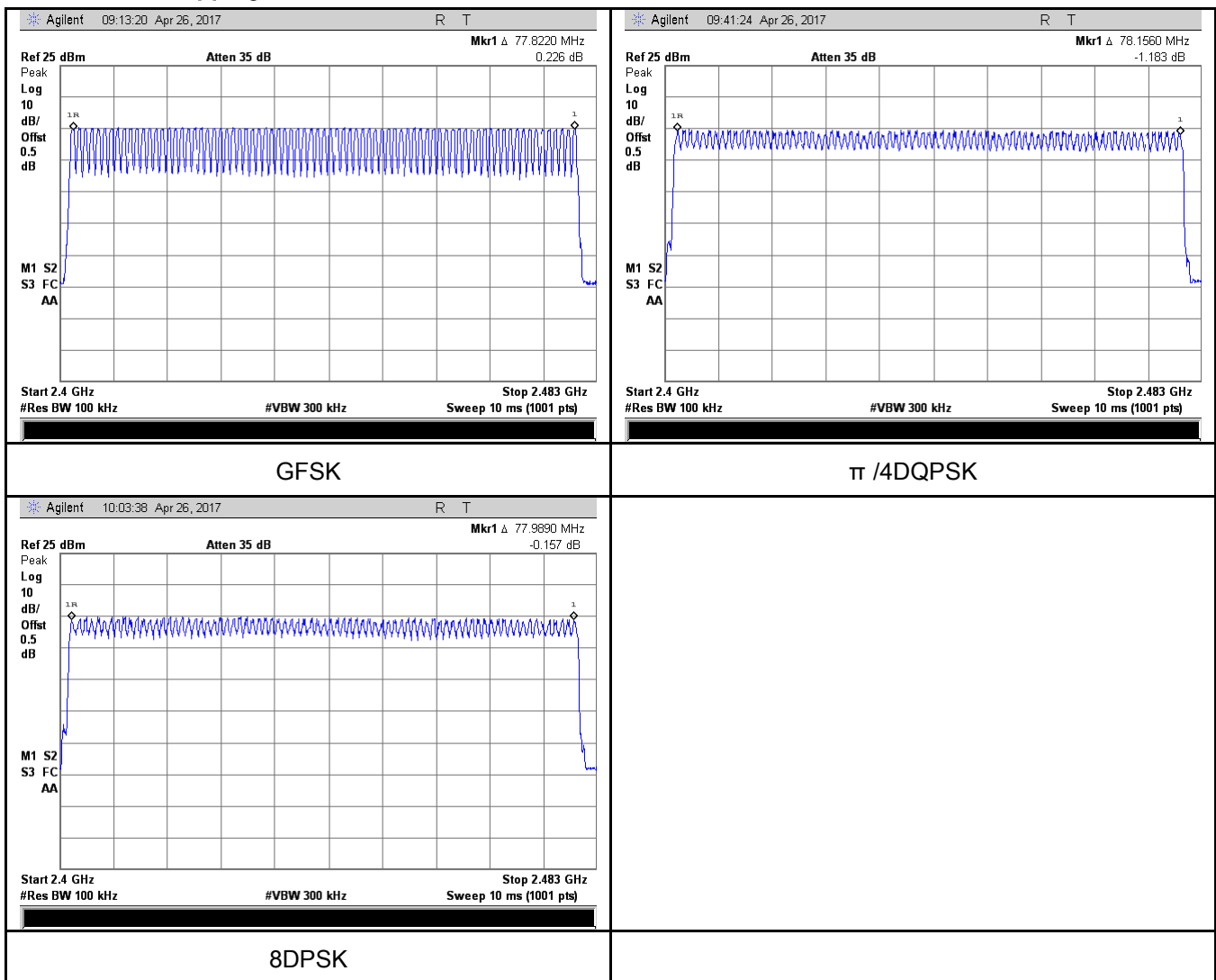
Test Data Yes N/A
 Test Plot Yes (See below) N/A

Number of Hopping Channel measurement result

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

Test Plots

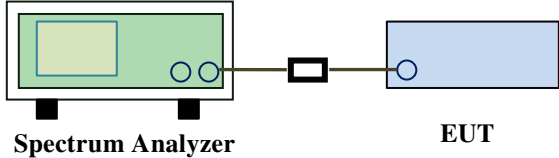
Number of Hopping Channels measurement result



6.6 Time of Occupancy (Dwell Time)

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1025mbar
Test date :	April 25, 2017
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	 <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"> - Span = zero span, centered on a hopping channel - RBW = 1 MHz - VBW ≥ RBW - Sweep = as necessary to capture the entire dwell time per hopping channel - Detector function = peak - Trace = max hold - use the marker-delta function to determine the dwell time 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A

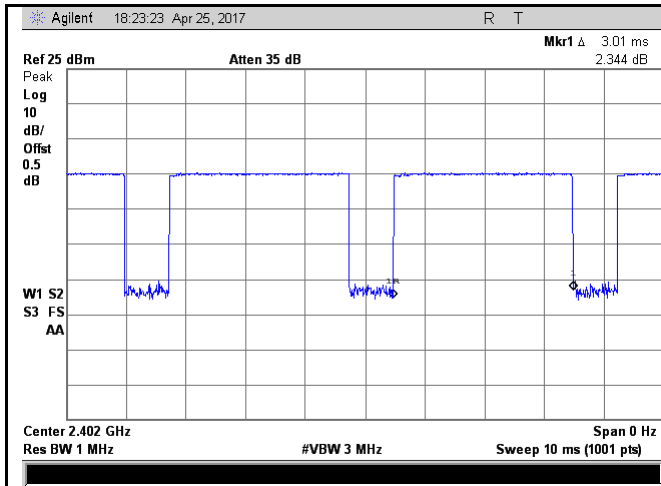
Test Plot Yes (See below) N/A

Dwell Time measurement result

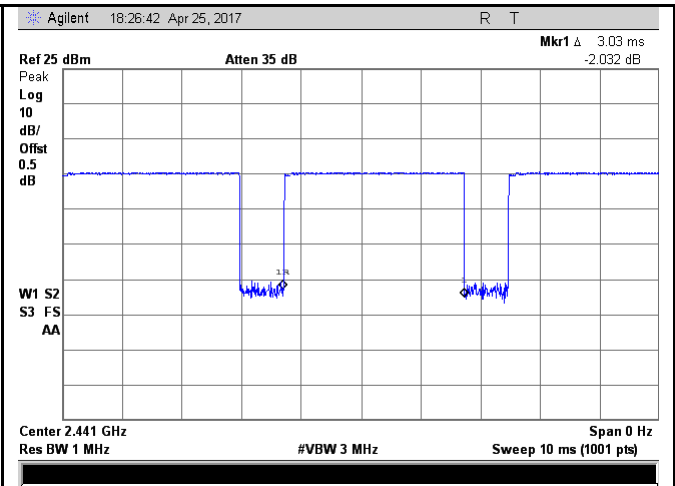
Type	Modulation	CH	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
Dwell Time	GFSK	Low	3.01	321.067	400	Pass
		Mid	3.03	323.200	400	Pass
		High	3.02	322.133	400	Pass
	π /4 DQPSK	Low	3.04	324.267	400	Pass
		Mid	3.07	327.467	400	Pass
		High	3.03	323.200	400	Pass
	8-DPSK	Low	3.04	324.267	400	Pass
		Mid	3.02	322.133	400	Pass
		High	3.04	324.267	400	Pass
Note: Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6						

Test Plots

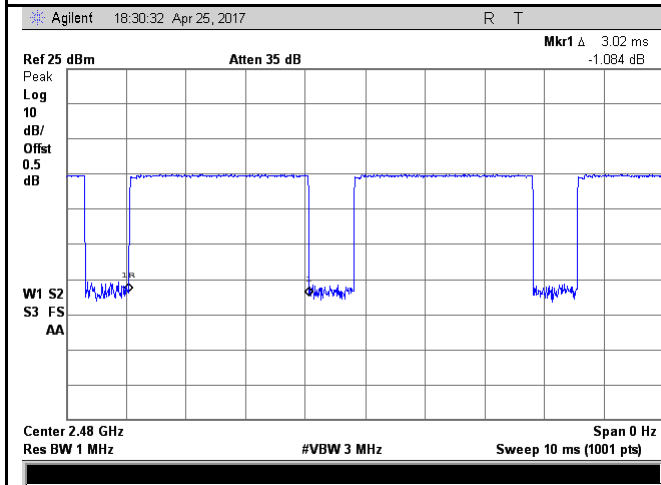
Dwell Time measurement result



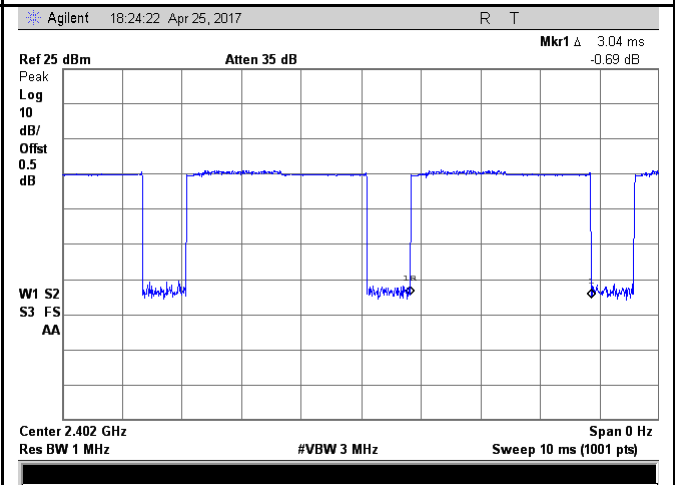
GFSK - Low CH 2402



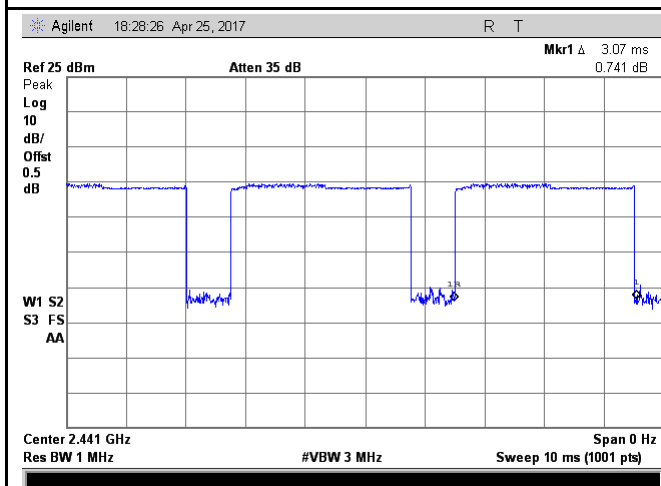
GFSK - Mid CH 2441



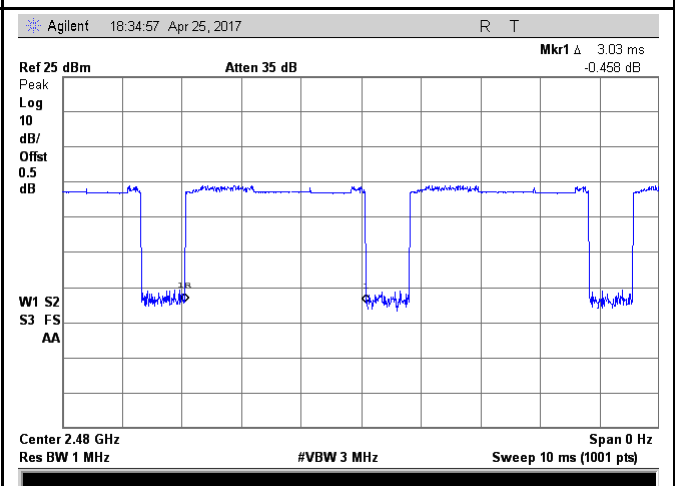
GFDK - High CH 2480



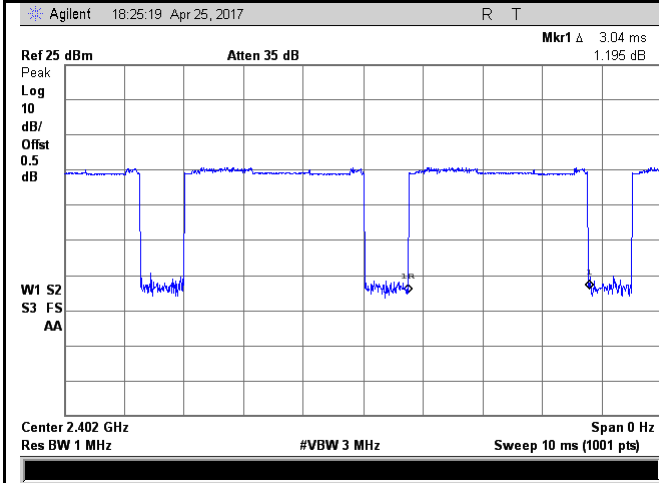
$\pi/4$ DQPSK - Low CH 2402



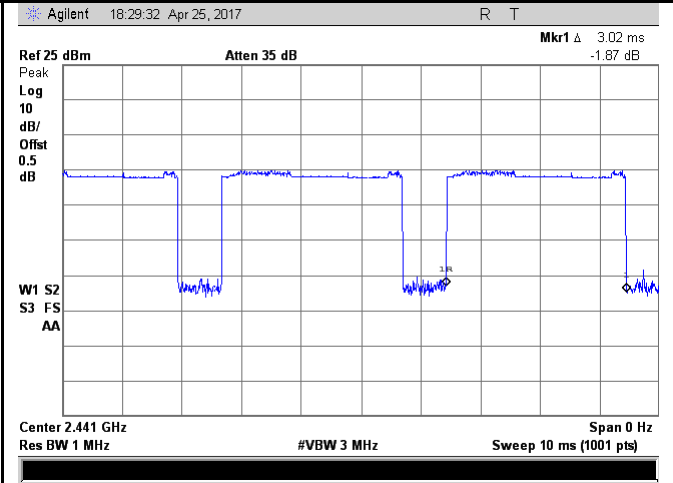
$\pi/4$ DQPSK - Mid CH 2441



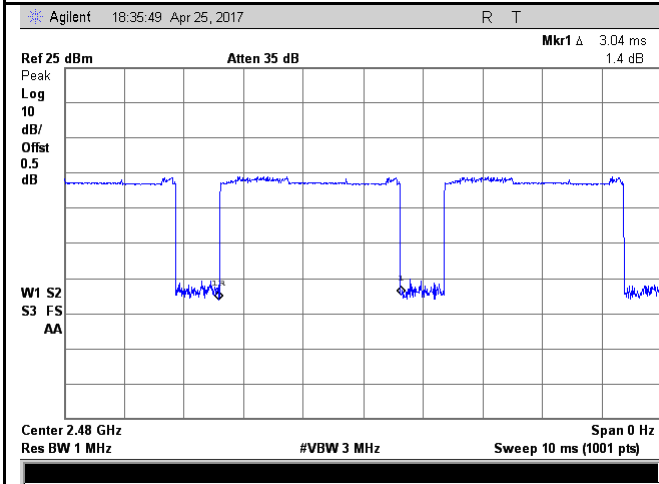
$\pi/4$ DQPSK - High CH 2480



8DPSK - Low CH 2402



8DPSK - Mid CH 2441



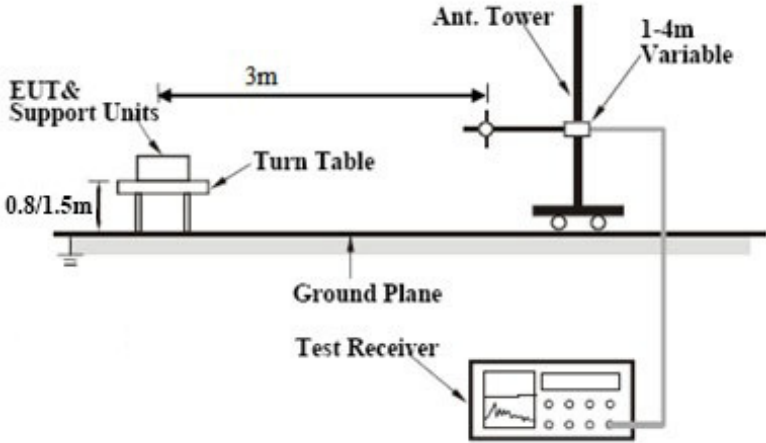
8DPSK - High CH 2480

6.7 Band Edge & Restricted Band

Temperature	24°C
Relative Humidity	55%
Atmospheric Pressure	1010mbar
Test date :	April 26, 2017
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	
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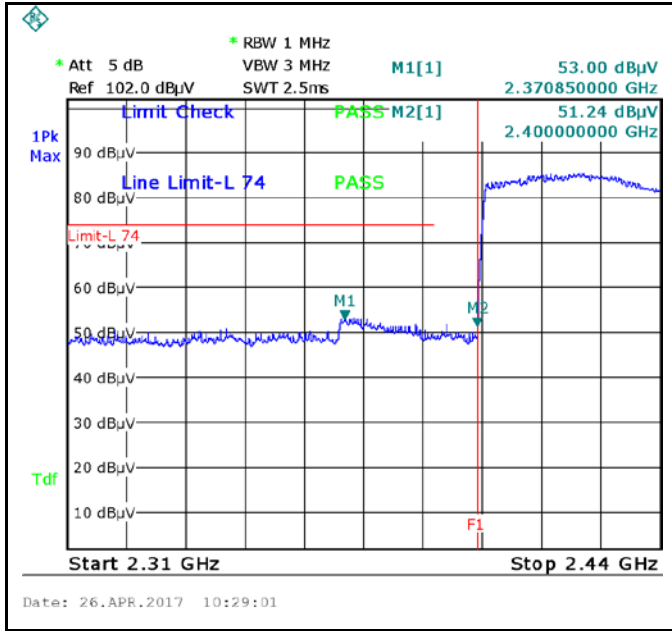
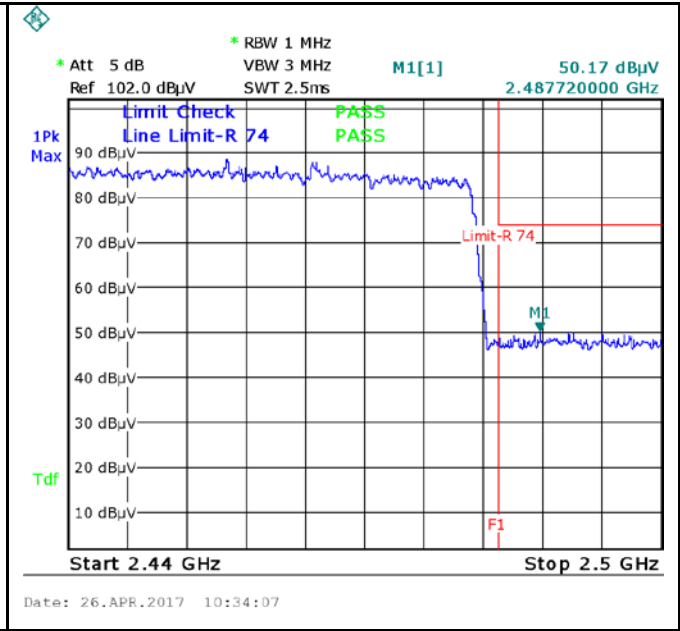
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Radiated Method Only</p> <ul style="list-style-type: none"> - 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. - 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range,
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	<p>and make sure the instrument is operated in its linear range.</p> <ul style="list-style-type: none"> - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below: <ul style="list-style-type: none"> a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz. - 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency. - 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

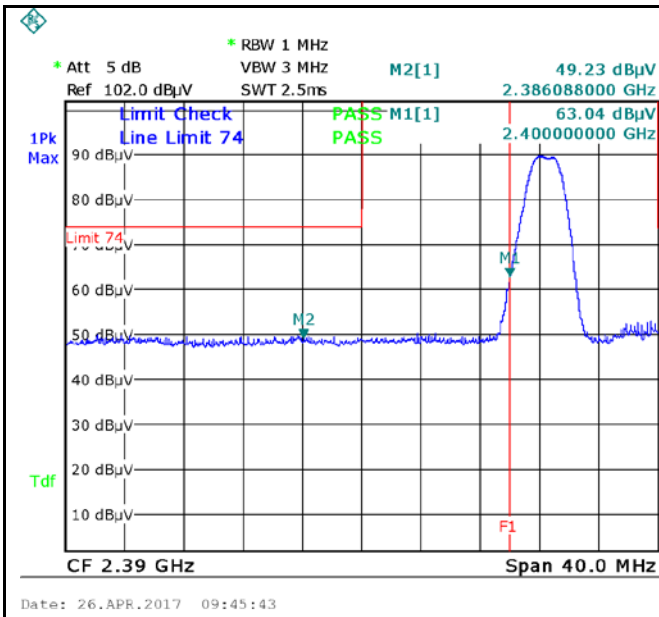
Test Data Yes N/A
Test Plot Yes (See below) N/A

Test Plots

GFSK Mode:

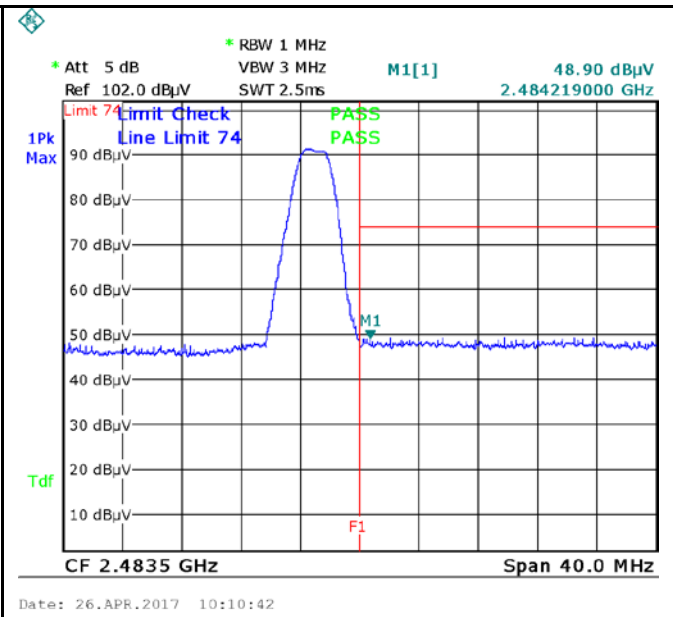
	
<p style="text-align: center;">GFSK-Hopping Left Side-PK</p> <p style="text-align: center;">Note: F1 is frequency 2400MHz</p>	<p style="text-align: center;">GFSK-Hopping Right Side-PK</p> <p style="text-align: center;">Note: F1 is frequency 2483.5MHz</p>
<p>Note: (no need if PK value less than the AV limit)</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p style="text-align: center;">GFSK-Hopping Left Side-AV</p>	<p style="text-align: center;">GFSK-Hopping Right Side-AV</p>

Note: Both Horizontal and vertical polarities were investigated



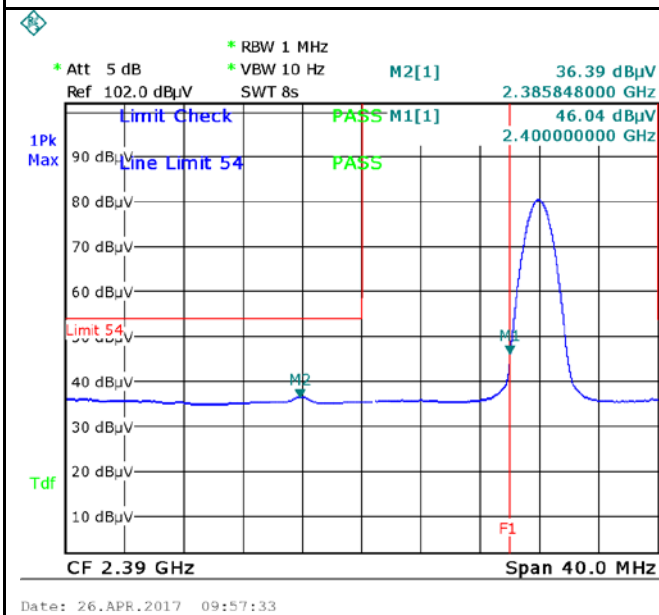
GFSK-Left Side-PK

Note: F1 is frequency 2400MHz



GFSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



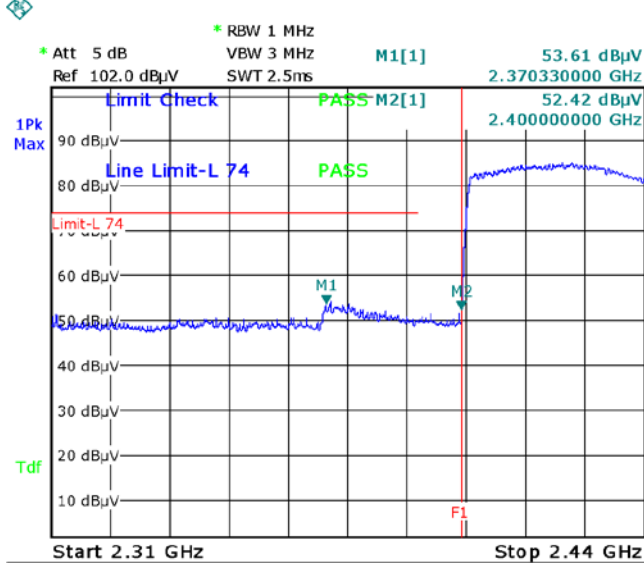
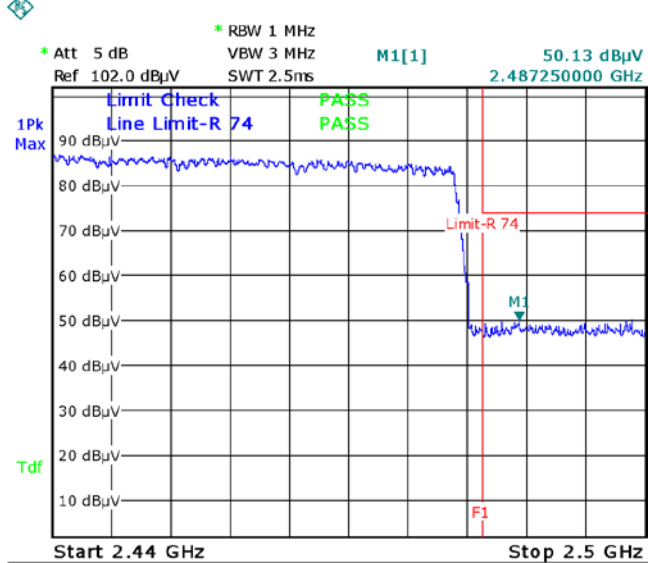
GFSK-Left Side-AV

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

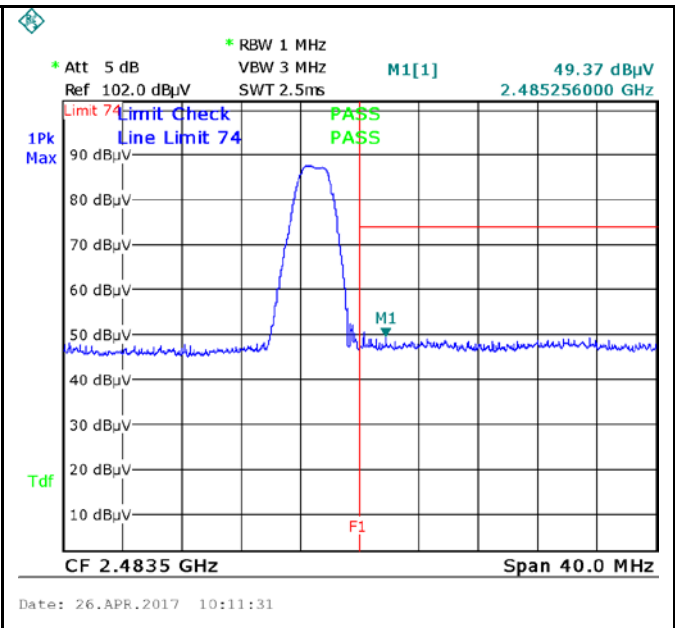
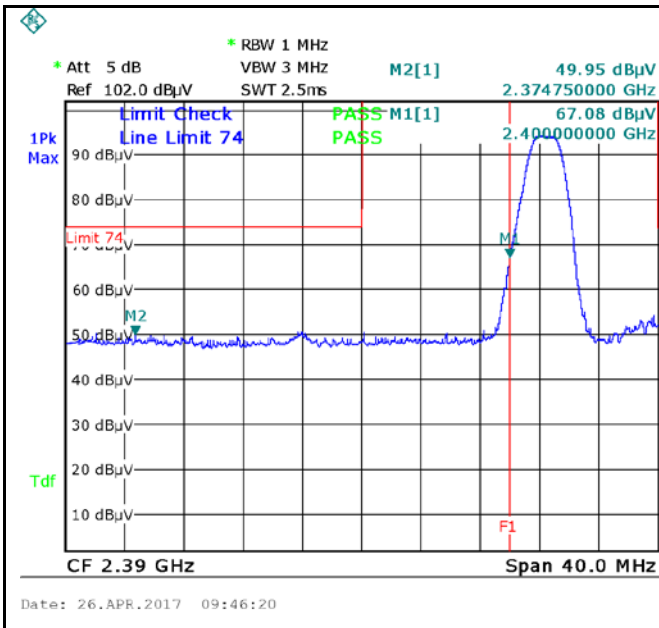
GFSK-Right Side-AV

Note: Both Horizontal and vertical polarities were investigated

$\pi/4$ DQPSK Mode:

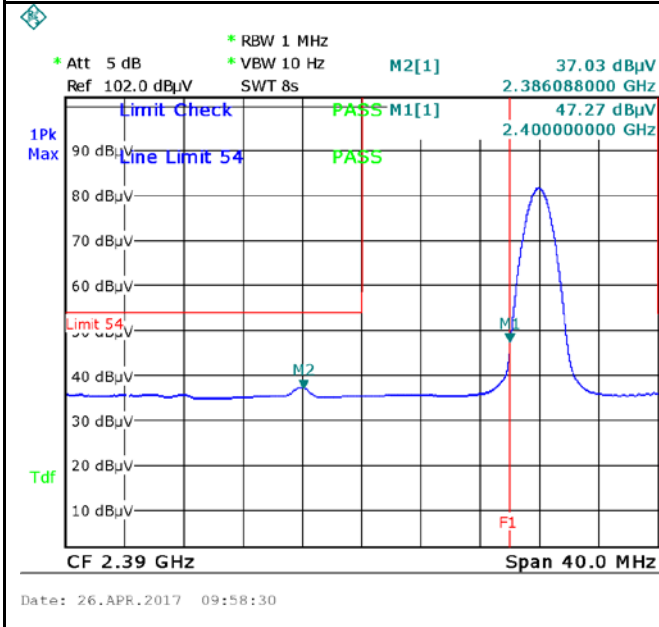
 <p> * Att 5 dB RBW 1 MHz VBW 3 MHz M1[1] 53.61 dBμV Ref 102.0 dBμV SWT 2.5ms 2.370330000 GHz Line Limit-L 74 PASS M2[1] 52.42 dBμV 2.400000000 GHz Start 2.31 GHz Stop 2.44 GHz Date: 26.APR.2017 10:28:45 </p>	 <p> * Att 5 dB RBW 1 MHz VBW 3 MHz M1[1] 50.13 dBμV Ref 102.0 dBμV SWT 2.5ms 2.487250000 GHz Line Limit-R 74 PASS Start 2.44 GHz Stop 2.5 GHz Date: 26.APR.2017 10:36:03 </p>
<p>$\pi/4$ DQPSK-Hopping Left Side-PK</p> <p>Note: F1 is frequency 2400MHz</p>	<p>$\pi/4$ 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>$\pi/4$ DQPSK-Hopping Left-AV</p>	<p>$\pi/4$ DQPSK-Hopping Right-AV</p>

Note: Both Horizontal and vertical polarities were investigated



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

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



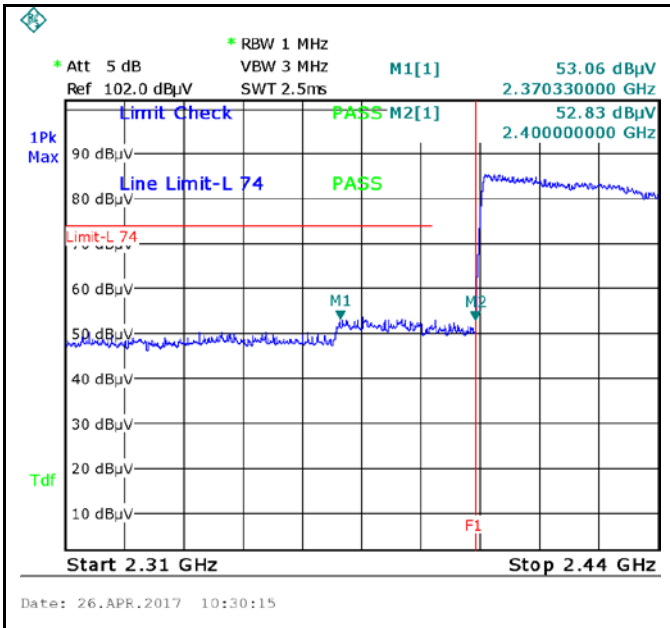
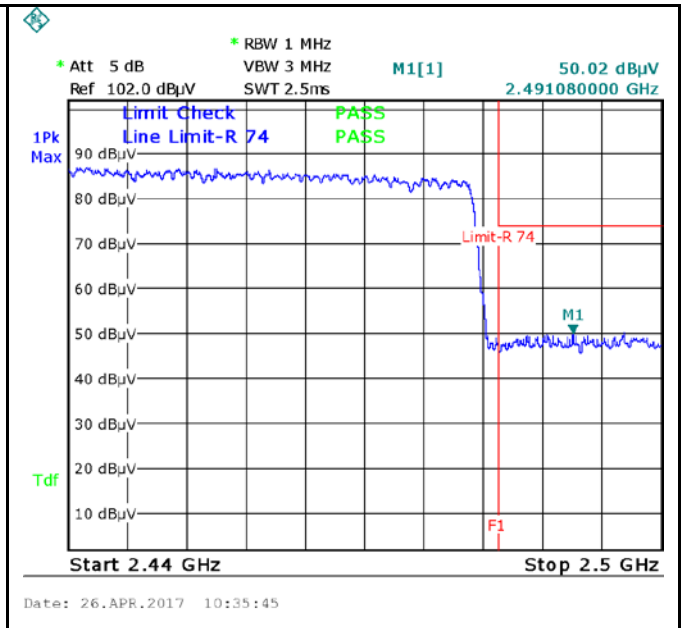
Note: (no need if PK value less than the AV limit)

π / 4 DQPSK-Left Side-AV

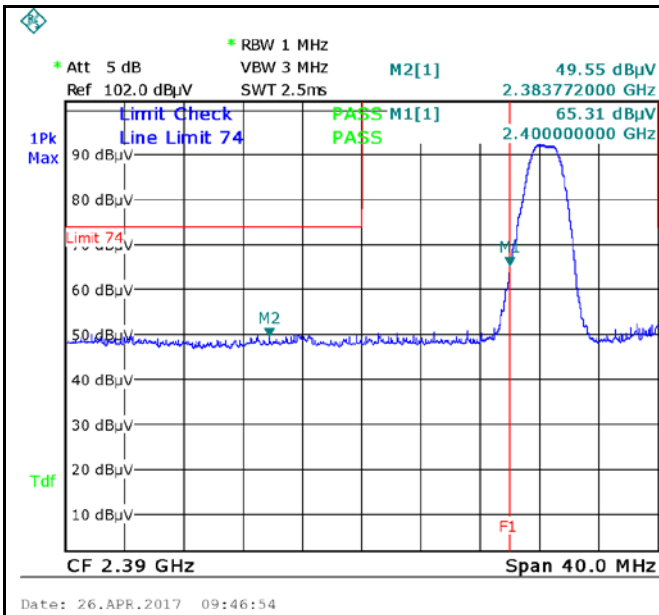
π / 4 DQPSK-Right Side-AV

Note: Both Horizontal and vertical polarities were investigated

8-DPSK Mode:

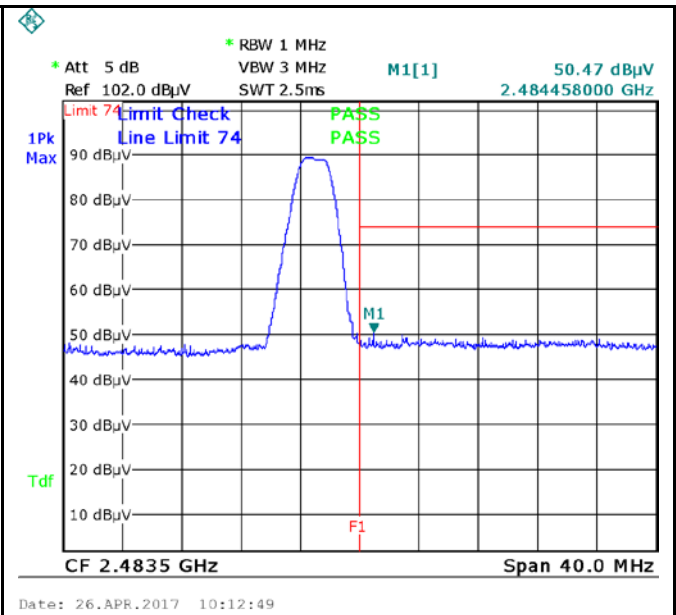
 <p> * Att 5 dB * RBW 1 MHz Ref 102.0 dBµV VBW 3 MHz SWT 2.5ms </p> <p> M1[1] 53.06 dBµV 2.370330000 GHz </p> <p> Limit Check PASS M2[1] 52.83 dBµV Line Limit-L 74 PASS 2.400000000 GHz </p> <p> 1Pk Max 90 dBµV 80 dBµV Limit-L 74 60 dBµV M1 M2 50 dBµV 40 dBµV Tdf 30 dBµV 20 dBµV 10 dBµV </p> <p> Start 2.31 GHz Stop 2.44 GHz </p> <p>Date: 26.APR.2017 10:30:15</p>	 <p> * Att 5 dB * RBW 1 MHz Ref 102.0 dBµV VBW 3 MHz SWT 2.5ms </p> <p> M1[1] 50.02 dBµV 2.491080000 GHz </p> <p> Limit Check PASS Line Limit-R 74 PASS </p> <p> 1Pk Max 90 dBµV 80 dBµV Limit-R 74 70 dBµV 60 dBµV M1 50 dBµV 40 dBµV Tdf 30 dBµV 20 dBµV 10 dBµV </p> <p> Start 2.44 GHz Stop 2.5 GHz </p> <p>Date: 26.APR.2017 10:35:45</p>
<p>8DPSK-Hopping Left Side-PK</p> <p>Note: F1 is frequency 2400MHz</p>	<p>8DPSK-Hopping Right Side-PK</p> <p>Note: F1 is frequency 2483.5MHz</p>
<p>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>8DPSK-Hopping Left-AV</p>	<p>8DPSK-Hopping Right-AV</p>

Note: Both Horizontal and vertical polarities were investigated



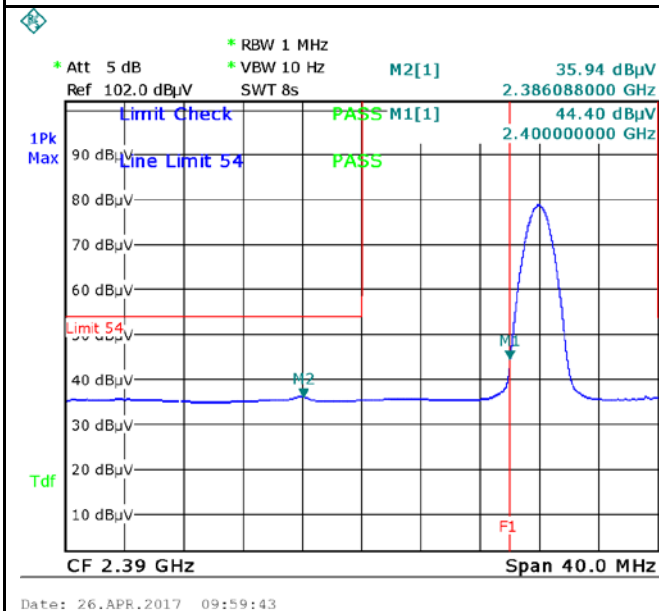
8DPSK-Left Side-PK

Note: F1 is frequency 2400MHz



8DPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



8DPSK-Left Side-AV

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

8DPSK-Right Side-AV

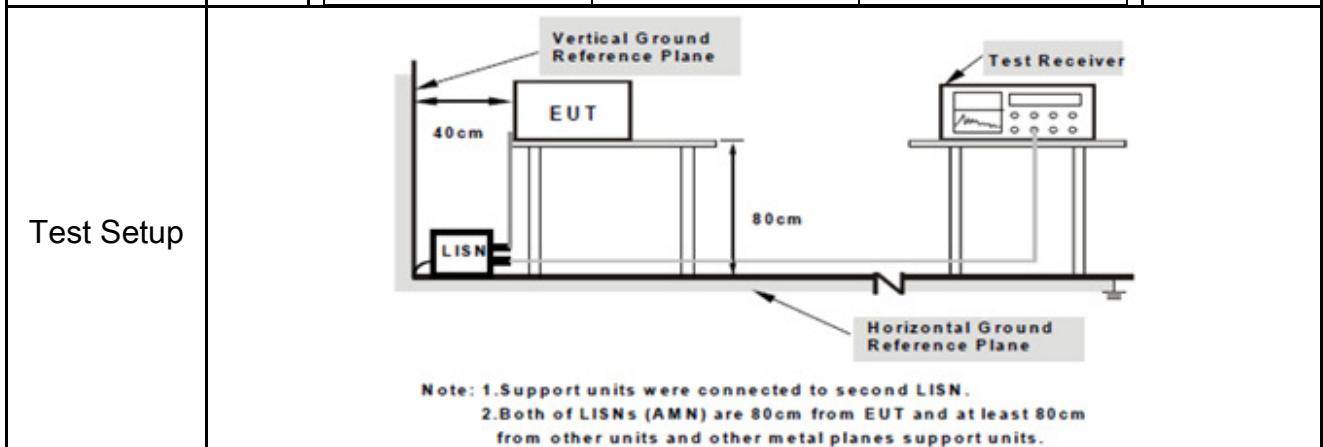
Note: Both Horizontal and vertical polarities were investigated

6.8 AC Power Line Conducted Emissions

Temperature	24°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	April 19, 2017
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.	<input checked="" type="checkbox"/>														
		<table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBµV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>		Frequency ranges (MHz)	Limit (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															



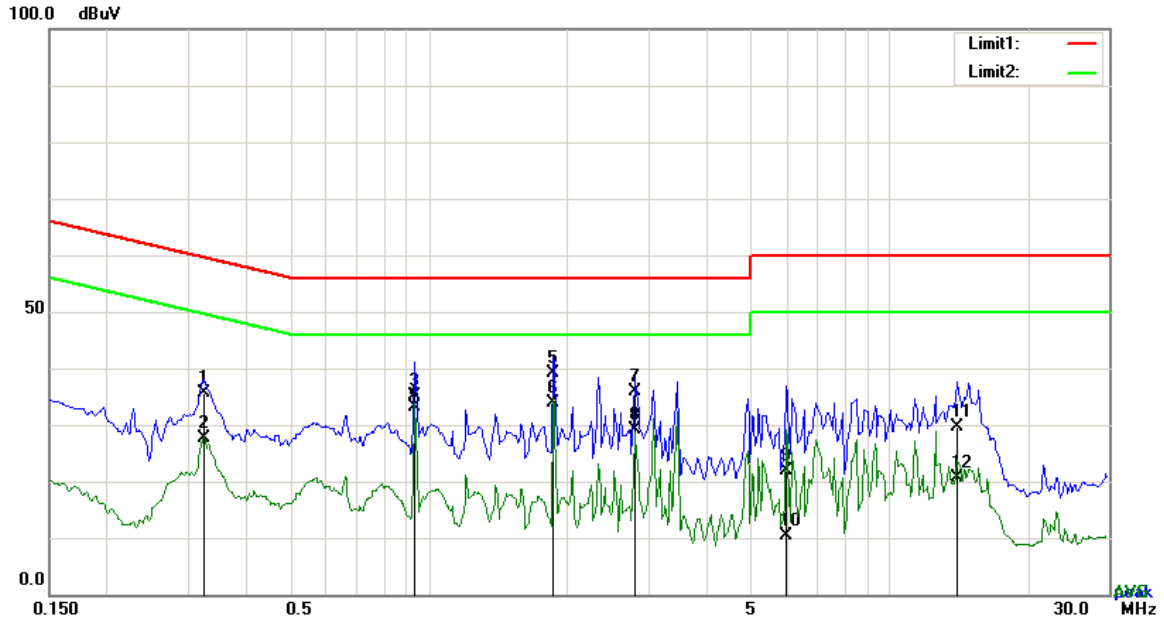
Procedure	<ol style="list-style-type: none"> The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
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	<p>coaxial cable.</p> <ol style="list-style-type: none"> 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

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

Test Mode:	Bluetooth Mode
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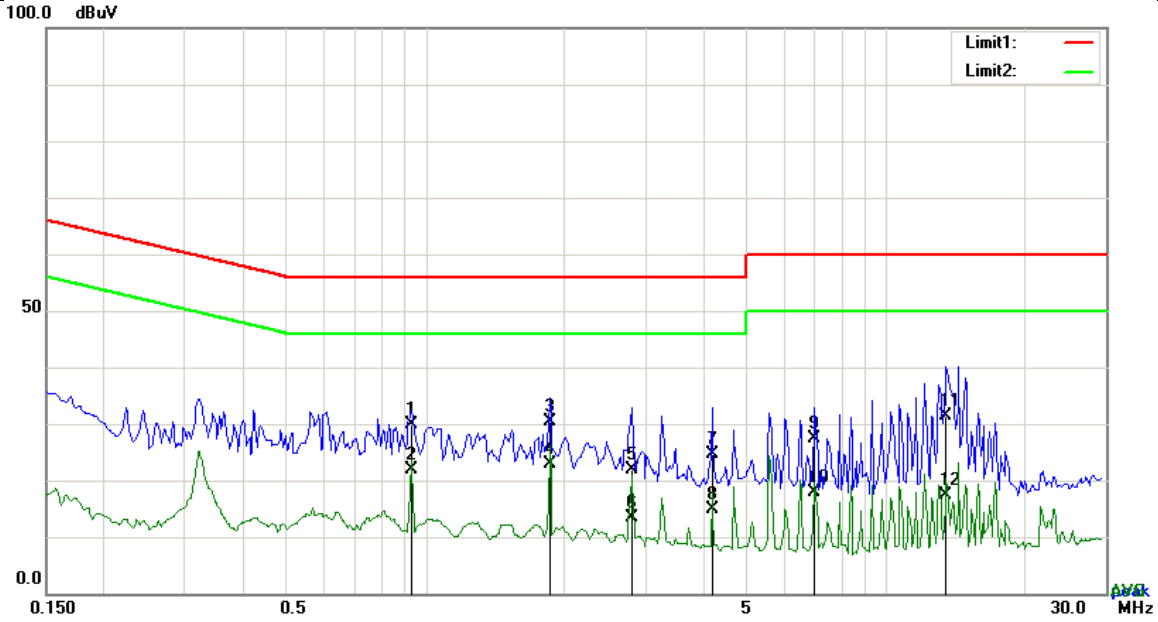


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.3255	25.58	QP	10.03	35.61	59.57	-23.96
2	L1	0.3255	17.66	AVG	10.03	27.69	49.57	-21.88
3	L1	0.9339	25.03	QP	10.03	35.06	56.00	-20.94
4	L1	0.9339	23.19	AVG	10.03	33.22	46.00	-12.78
5	L1	1.8660	29.19	QP	10.04	39.23	56.00	-16.77
6	L1	1.8660	23.82	AVG	10.04	33.86	46.00	-12.14
7	L1	2.8020	25.80	QP	10.05	35.85	56.00	-20.15
8	L1	2.8020	19.00	AVG	10.05	29.05	46.00	-16.95
9	L1	5.9835	11.70	QP	10.09	21.79	60.00	-38.21
10	L1	5.9835	0.23	AVG	10.09	10.32	50.00	-39.68
11	L1	14.0409	19.46	QP	10.21	29.67	60.00	-30.33
12	L1	14.0409	10.45	AVG	10.21	20.66	50.00	-29.34

Test Mode:	Bluetooth Mode
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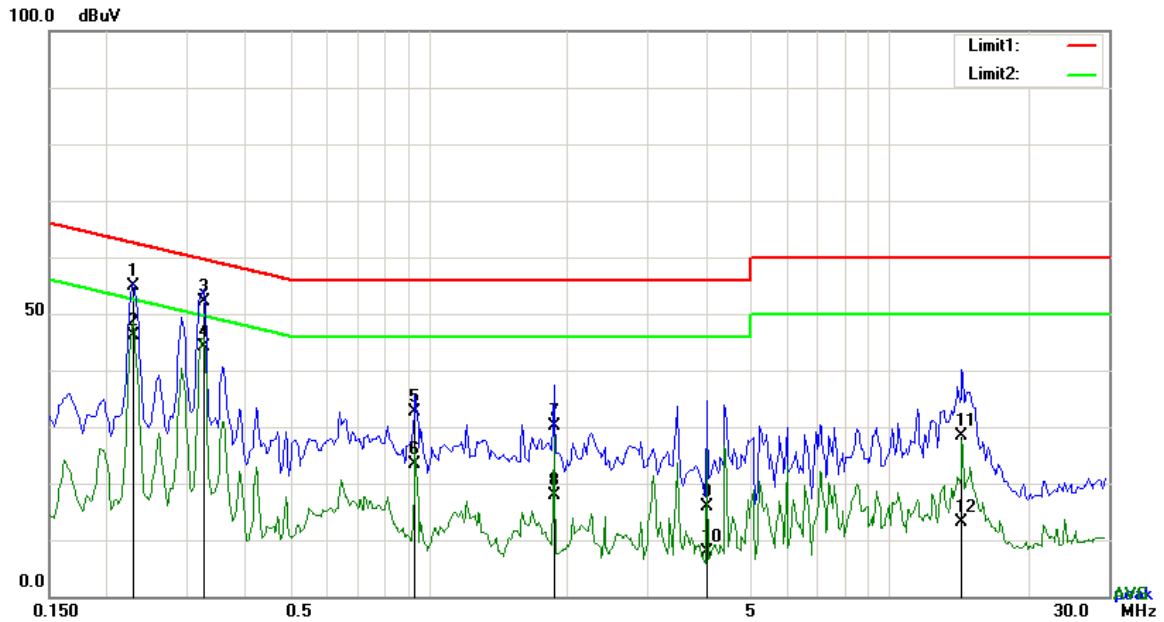


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.9300	19.79	QP	10.03	29.82	56.00	-26.18
2	N	0.9300	11.80	AVG	10.03	21.83	46.00	-24.17
3	N	1.8621	20.41	QP	10.04	30.45	56.00	-25.55
4	N	1.8621	12.78	AVG	10.04	22.82	46.00	-23.18
5	N	2.8020	11.93	QP	10.05	21.98	56.00	-34.02
6	N	2.8020	3.37	AVG	10.05	13.42	46.00	-32.58
7	N	4.1856	14.60	QP	10.06	24.66	56.00	-31.34
8	N	4.1856	4.76	AVG	10.06	14.82	46.00	-31.18
9	N	6.9897	17.27	QP	10.10	27.37	60.00	-32.63
10	N	6.9897	7.88	AVG	10.10	17.98	50.00	-32.02
11	N	13.5027	21.29	QP	10.18	31.47	60.00	-28.53
12	N	13.5027	7.20	AVG	10.18	17.38	50.00	-32.62

Test Mode:	Bluetooth Mode
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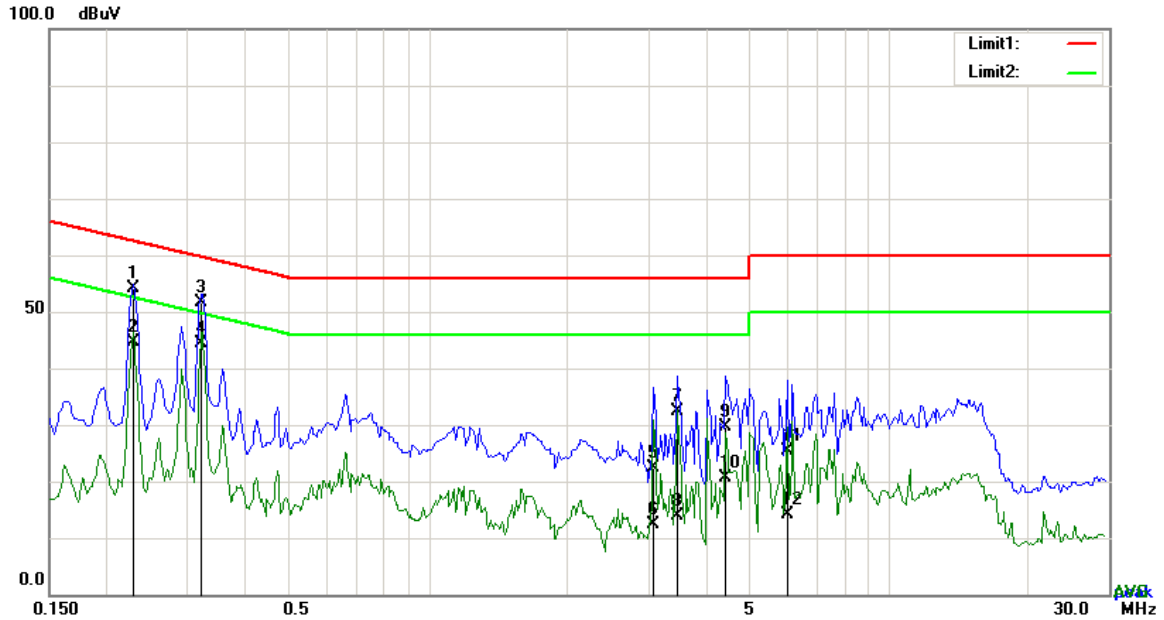


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2280	44.90	QP	10.03	54.93	62.52	-7.59
2	L1	0.2280	36.16	AVG	10.03	46.19	52.52	-6.33
3	L1	0.3255	42.10	QP	10.03	52.13	59.57	-7.44
4	L1	0.3255	34.19	AVG	10.03	44.22	49.57	-5.35
5	L1	0.9339	22.52	QP	10.03	32.55	56.00	-23.45
6	L1	0.9339	13.45	AVG	10.03	23.48	46.00	-22.52
7	L1	1.8699	19.98	QP	10.04	30.02	56.00	-25.98
8	L1	1.8699	7.89	AVG	10.04	17.93	46.00	-28.07
9	L1	4.0140	5.89	QP	10.07	15.96	56.00	-40.04
10	L1	4.0140	-2.07	AVG	10.07	8.00	46.00	-38.00
11	L1	14.4231	18.08	QP	10.22	28.30	60.00	-31.70
12	L1	14.4231	2.80	AVG	10.22	13.02	50.00	-36.98

Test Mode:	Bluetooth Mode
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Test Data

Phase Neutral Plot at 240Vac, 60Hz

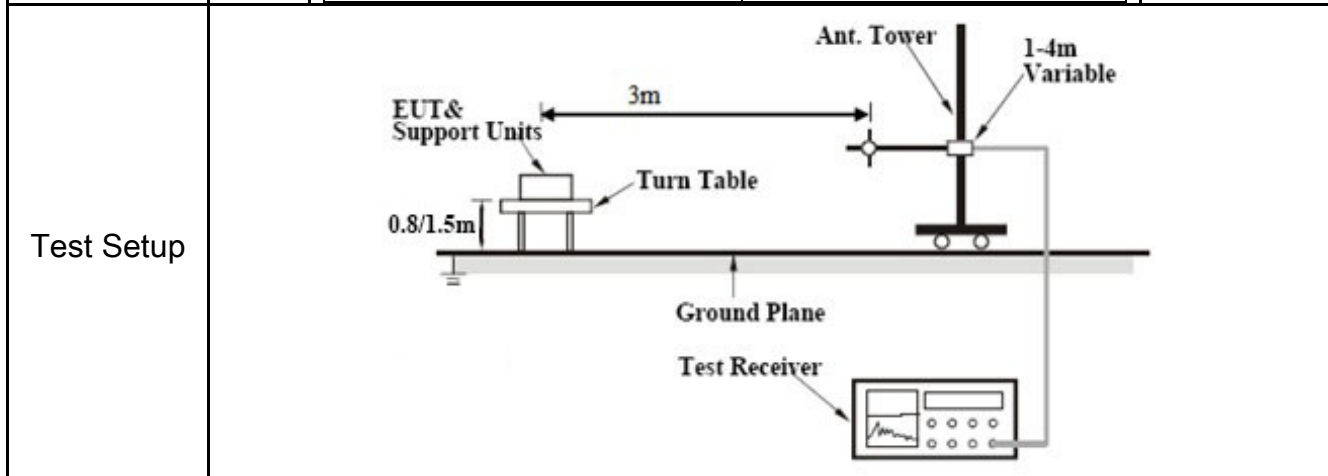
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.2280	44.02	QP	10.02	54.04	62.52	-8.48
2	N	0.2280	34.49	AVG	10.02	44.51	52.52	-8.01
3	N	0.3216	41.52	QP	10.02	51.54	59.67	-8.13
4	N	0.3216	34.33	AVG	10.02	44.35	49.67	-5.32
5	N	3.0780	12.34	QP	10.05	22.39	56.00	-33.61
6	N	3.0780	2.21	AVG	10.05	12.26	46.00	-33.74
7	N	3.4680	22.25	QP	10.05	32.30	56.00	-23.70
8	N	3.4680	3.90	AVG	10.05	13.95	46.00	-32.05
9	N	4.4079	19.63	QP	10.06	29.69	56.00	-26.31
10	N	4.4079	10.46	AVG	10.06	20.52	46.00	-25.48
11	N	6.0030	15.28	QP	10.08	25.36	60.00	-34.64
12	N	6.0030	4.06	AVG	10.08	14.14	50.00	-35.86

6.9 Radiated Emissions & Restricted Band

Temperature	24°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	April 19, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.205, §15.209, §15.247(d)	a)	<p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength ($\mu\text{V}/\text{m}$)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 - 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	30 – 88	100	88 – 216	150	216 - 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength ($\mu\text{V}/\text{m}$)												
30 – 88	100												
88 – 216	150												
216 - 960	200												
Above 960	500												



Procedure	<ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
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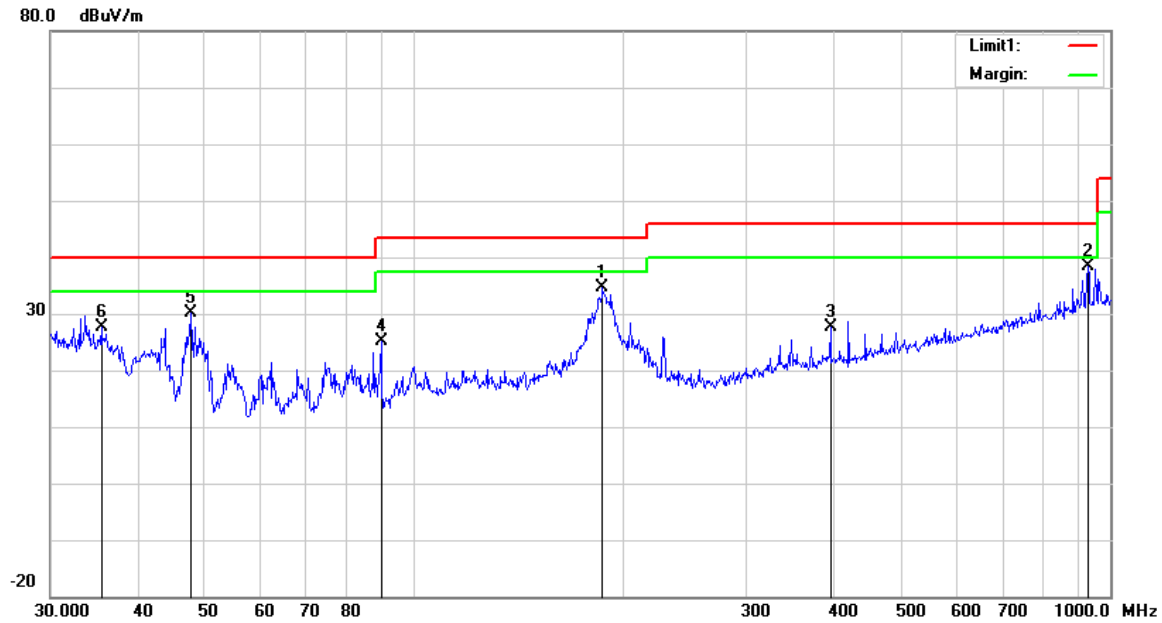
	<p>a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</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

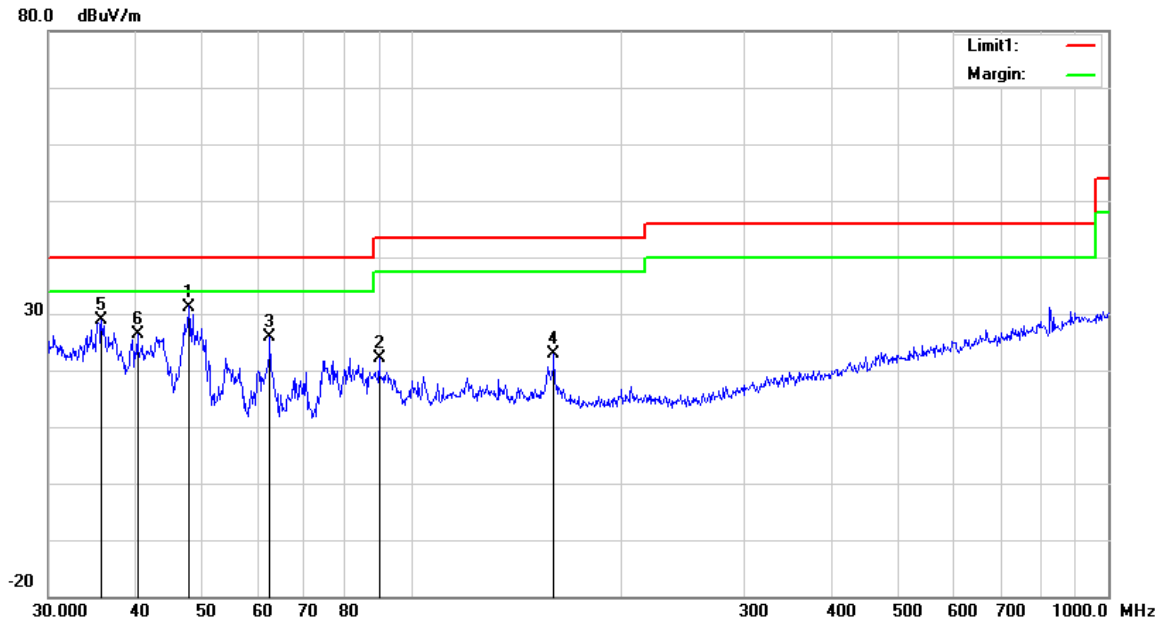


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detect or	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degr ee (°)
1	H	186.4409	44.07	peak	11.35	22.29	1.48	34.61	43.50	-8.89	100	91
2	H	929.0082	33.47	peak	22.65	20.82	3.13	38.43	46.00	-7.57	100	215
3	H	396.2415	31.94	peak	15.62	22.02	2.01	27.55	46.00	-18.45	100	263
4	H	89.5900	38.46	peak	7.98	22.32	0.96	25.08	43.50	-18.42	100	17
5	H	47.8260	42.45	peak	9.36	22.34	0.78	30.25	40.00	-9.75	100	307
6	H	35.4993	32.02	peak	17.19	22.25	0.76	27.72	40.00	-12.28	200	113

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detect or	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degr ee (°)
1	V	47.8260	43.45	peak	9.36	22.34	0.78	31.25	40.00	-8.75	100	209
2	V	89.5900	35.57	peak	7.98	22.32	0.96	22.19	43.50	-21.31	100	199
3	V	62.4314	40.01	peak	7.42	22.40	0.81	25.84	40.00	-14.16	100	193
4	V	159.7844	31.06	peak	12.60	22.27	1.39	22.78	43.50	-20.72	100	65
5	V	35.7491	33.35	peak	17.00	22.25	0.76	28.86	40.00	-11.14	100	163
6	V	40.2757	34.23	peak	13.72	22.28	0.79	26.46	40.00	-13.54	100	238

Above 1GHz

Test Mode:	Transmitting Mode
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Low Channel: 8-DPSK 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	39.32	AV	V	33.67	6.86	32.66	47.19	54	-6.81
4804	39.55	AV	H	33.67	6.86	32.66	47.42	54	-6.58
4804	48.61	PK	V	33.67	6.86	32.66	56.48	74	-17.52
4804	46.23	PK	H	33.67	6.86	32.66	54.1	74	-19.9
17805	24.19	AV	V	45.03	11.21	32.38	48.05	54	-5.95
17805	24.22	AV	H	45.03	11.21	32.38	48.08	54	-5.92
17805	40.13	PK	V	45.03	11.21	32.38	63.99	74	-10.01
17805	41.45	PK	H	45.03	11.21	32.38	65.31	74	-8.69

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	38.99	AV	V	33.71	6.95	32.74	46.91	54	-7.09
4882	38.49	AV	H	33.71	6.95	32.74	46.41	54	-7.59
4882	49.11	PK	V	33.71	6.95	32.74	57.03	74	-16.97
4882	47.15	PK	H	33.71	6.95	32.74	55.07	74	-18.93
17813	24.91	AV	V	45.15	11.18	32.41	48.83	54	-5.17
17813	23.76	AV	H	45.15	11.18	32.41	47.68	54	-6.32
17813	40.25	PK	V	45.15	11.18	32.41	64.17	74	-9.83
17813	41.47	PK	H	45.15	11.18	32.41	65.39	74	-8.61

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

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4960	38.15	AV	V	33.9	6.76	32.74	46.07	54	-7.93
4960	38.01	AV	H	33.9	6.76	32.74	45.93	54	-8.07
4960	47.23	PK	V	33.9	6.76	32.74	55.15	74	-18.85
4960	47.36	PK	H	33.9	6.76	32.74	55.28	74	-18.72
17826	24.58	AV	V	45.22	11.35	32.38	48.77	54	-5.23
17826	24.75	AV	H	45.22	11.35	32.38	48.94	54	-5.06
17826	42.33	PK	V	45.22	11.35	32.38	66.52	74	-7.48
17826	41.16	PK	H	45.22	11.35	32.38	65.35	74	-8.65

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
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	<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	03/23/2017	03/22/2018	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>

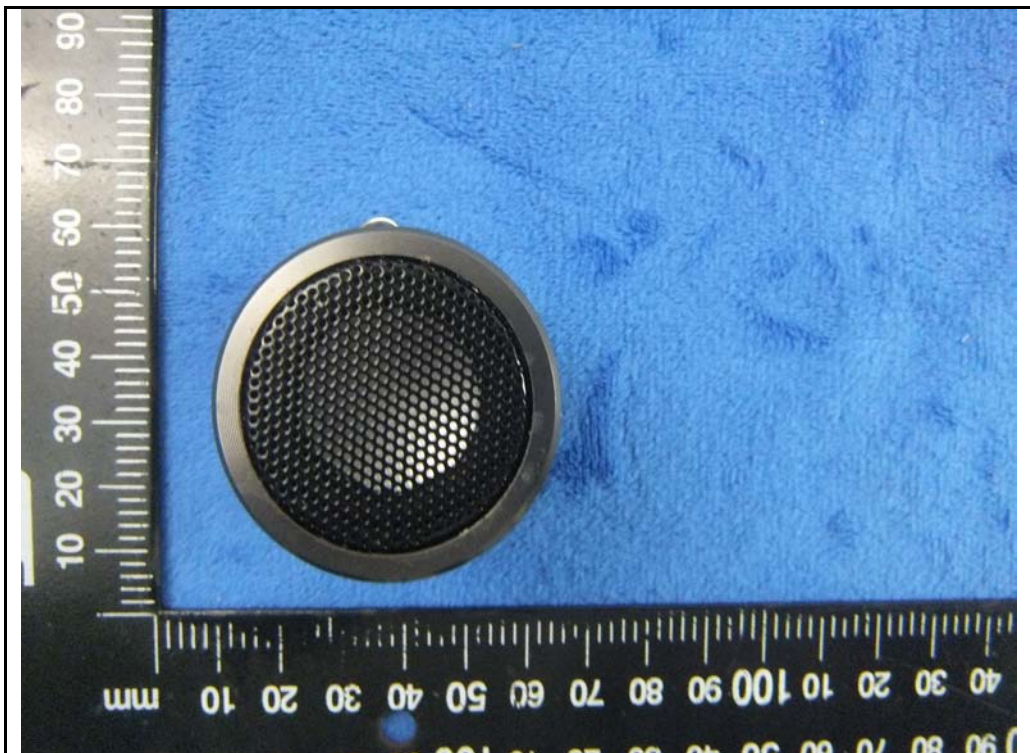
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



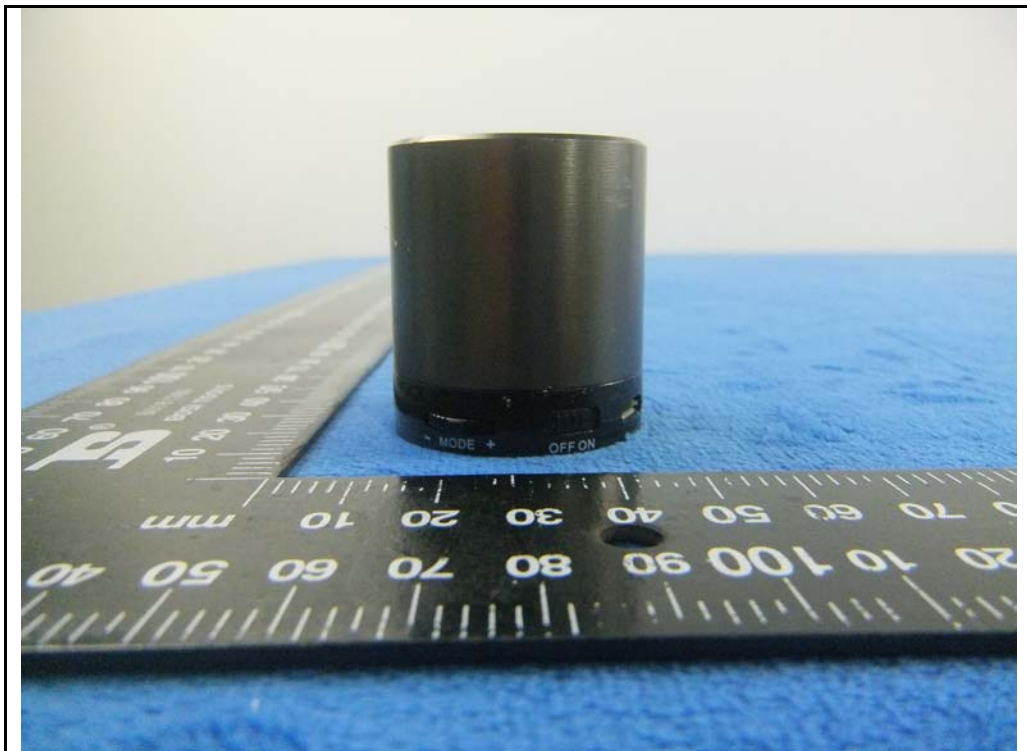
EUT - Front View



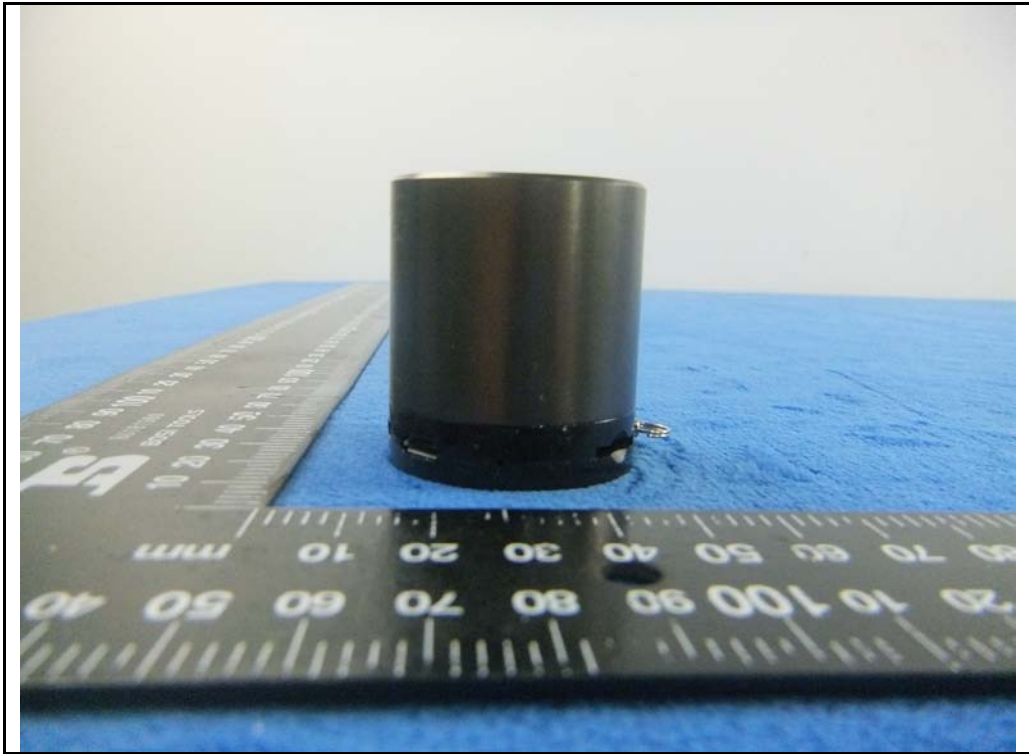
EUT - Rear View



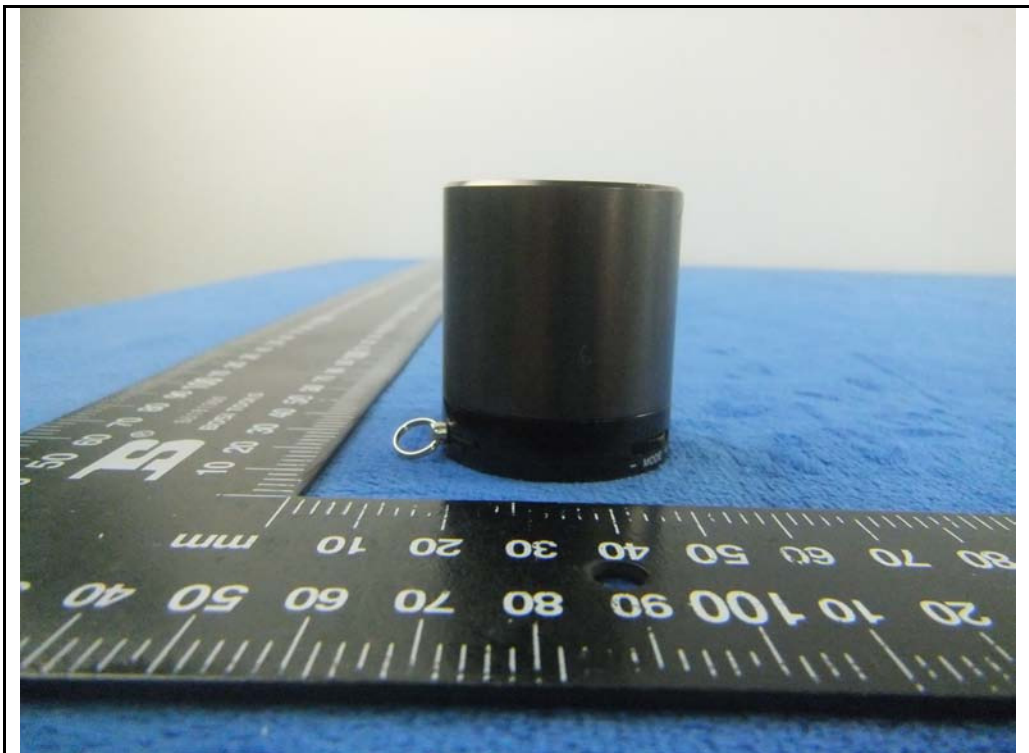
EUT - Top View



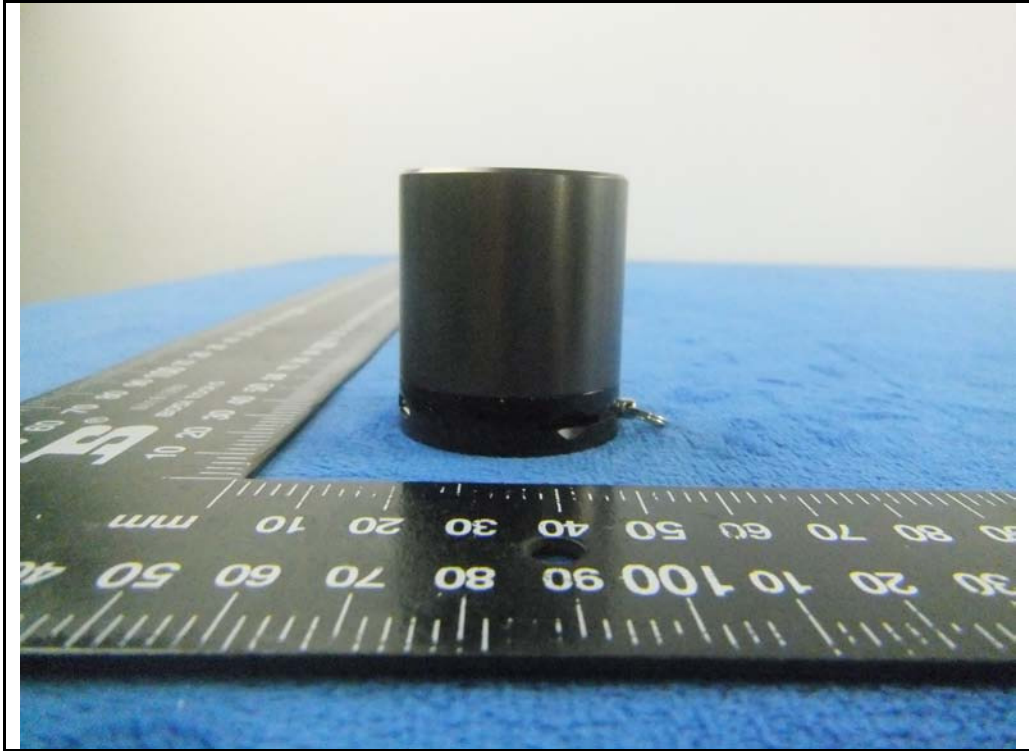
EUT - Bottom View



EUT - Left View

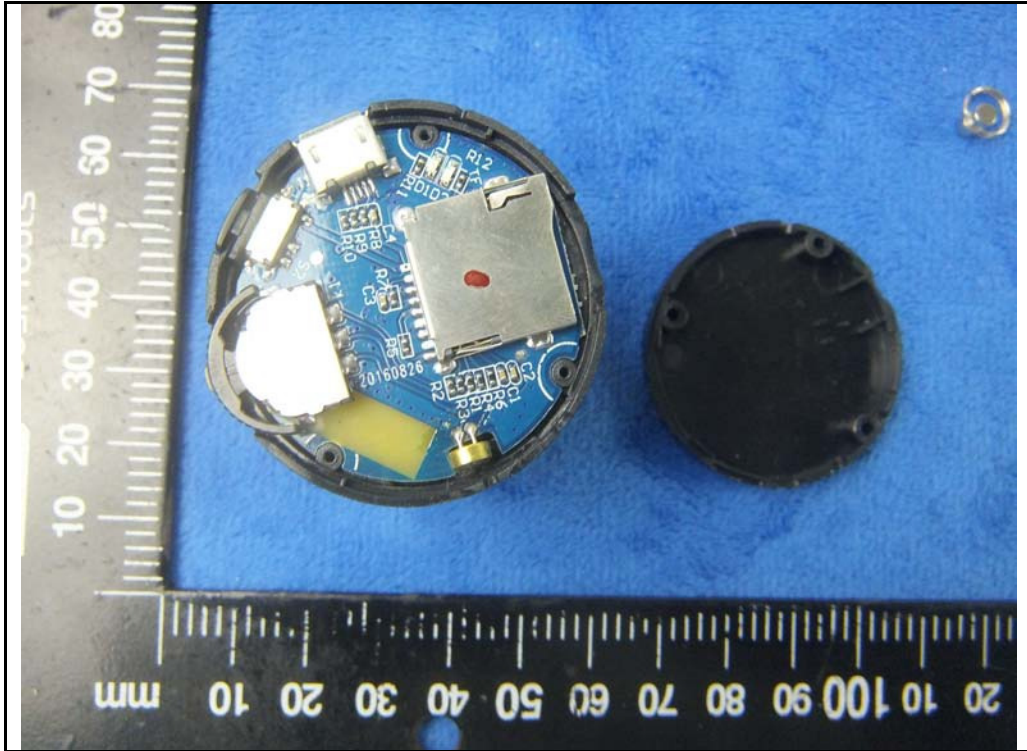


EUT - Right View

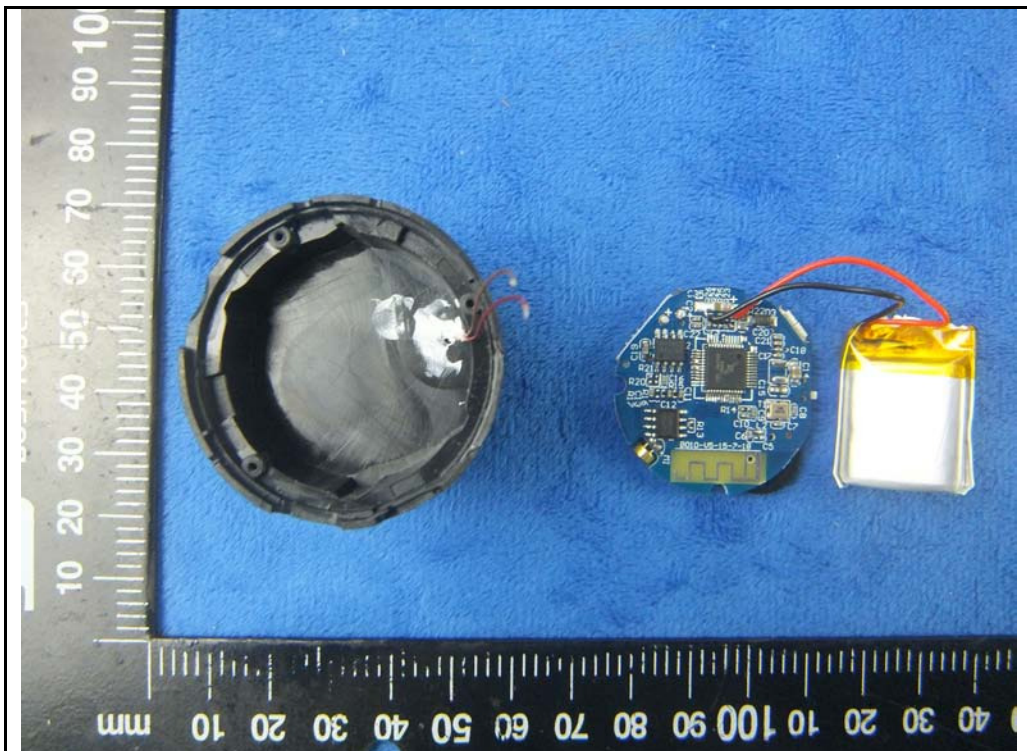


Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View 1



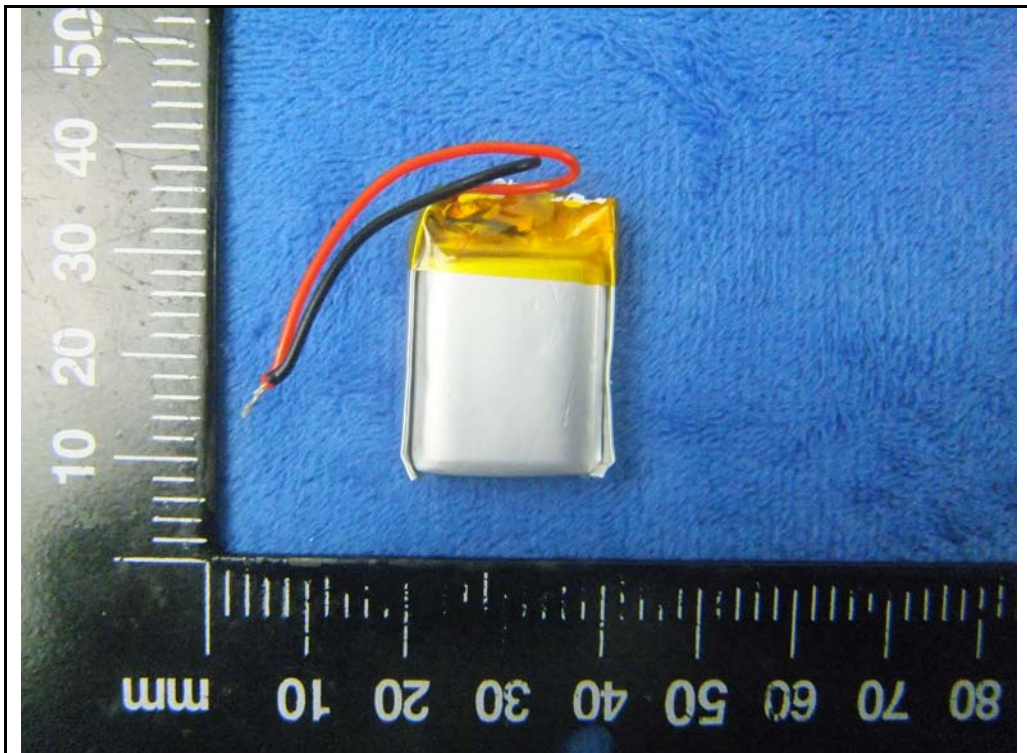
Cover Off - Top View 2



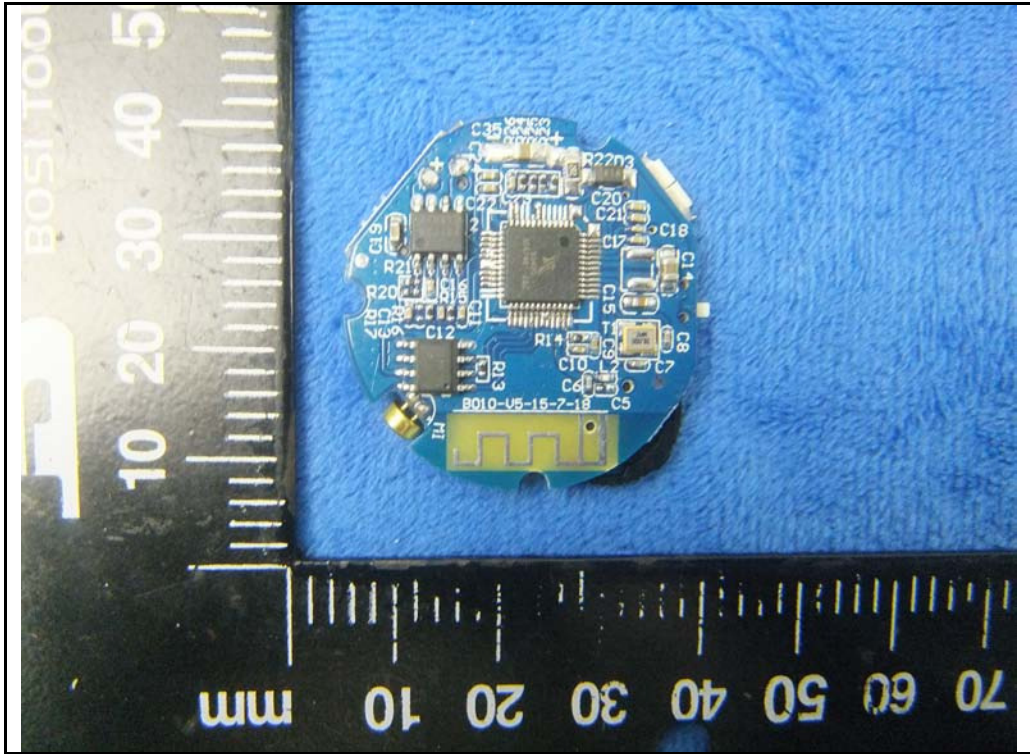
Battery - Front View



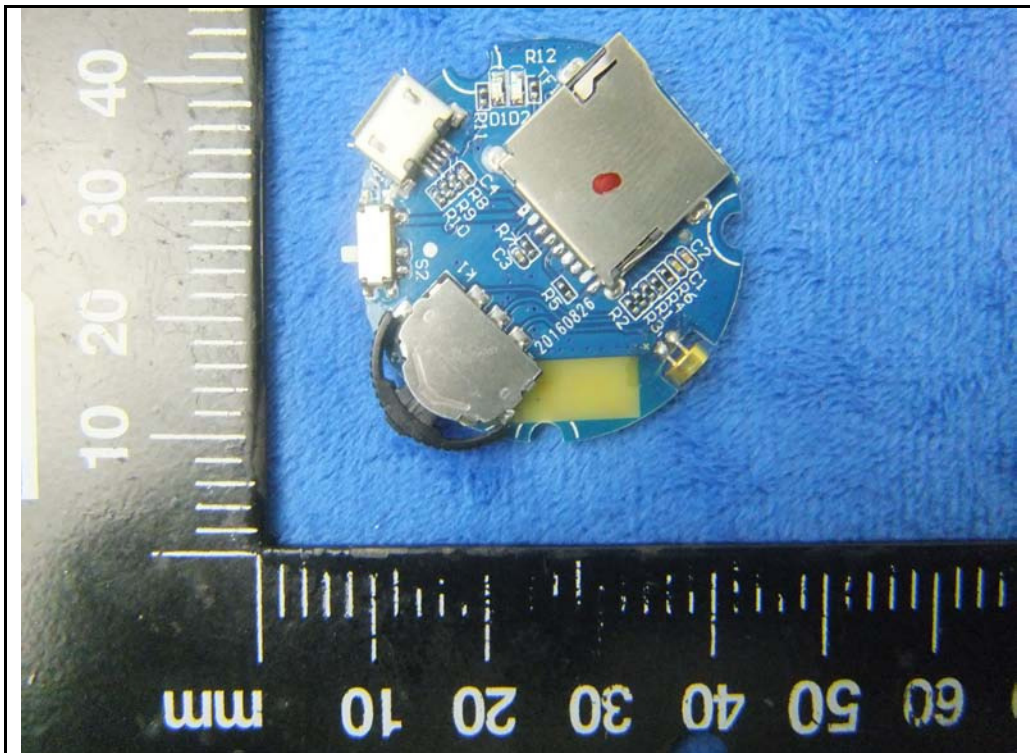
Battery - Rear View



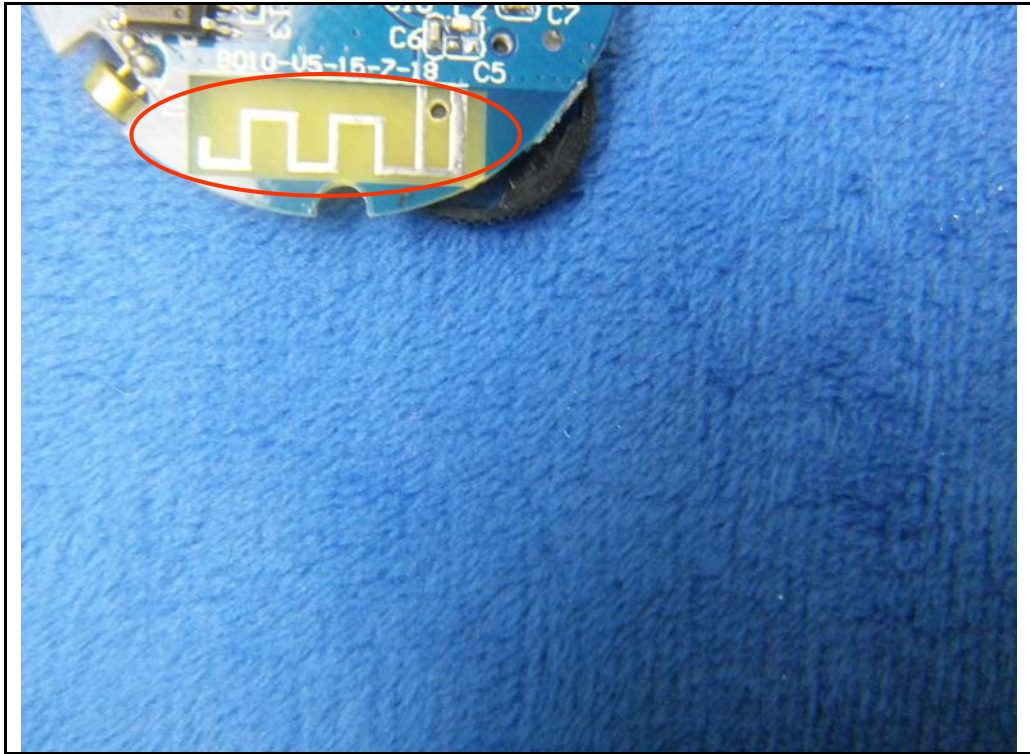
Mainboard - Front View



Mainboard - Rear View



BT - Antenna View



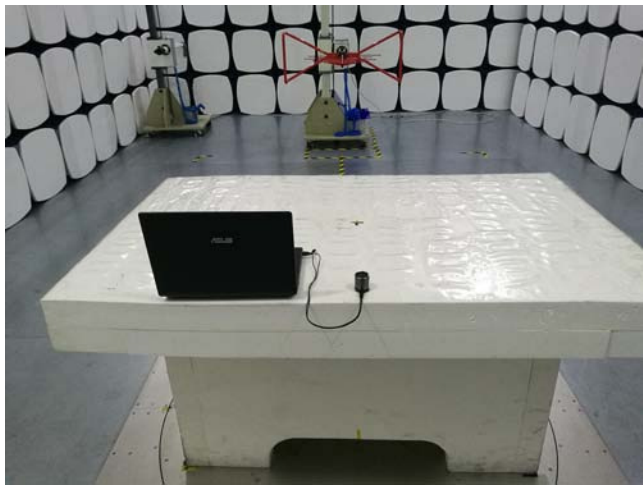
Annex B.iii. Photograph: Test Setup Photo



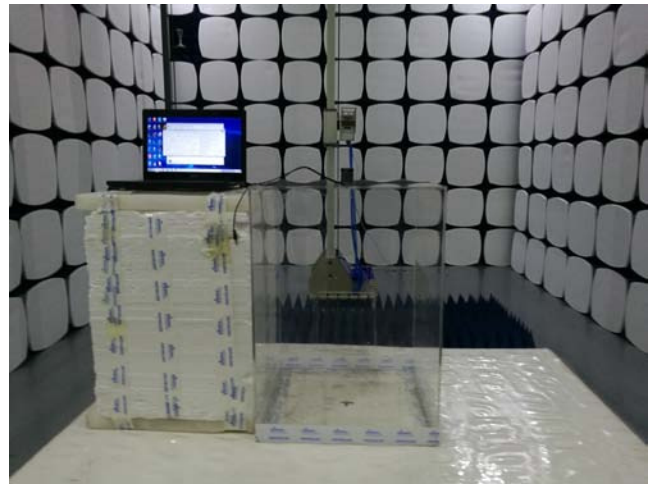
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

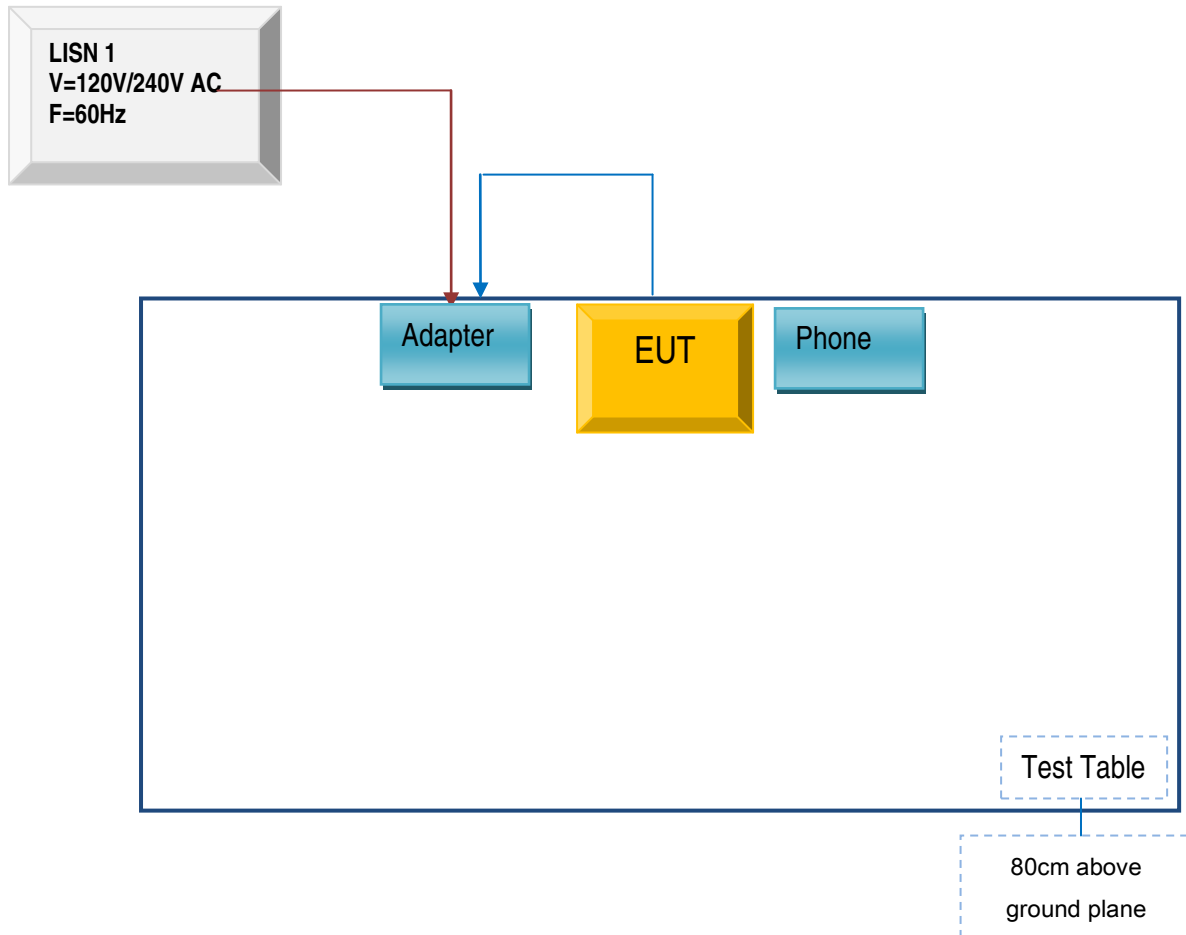


Radiated Spurious Emissions Test Setup Above
1GHz

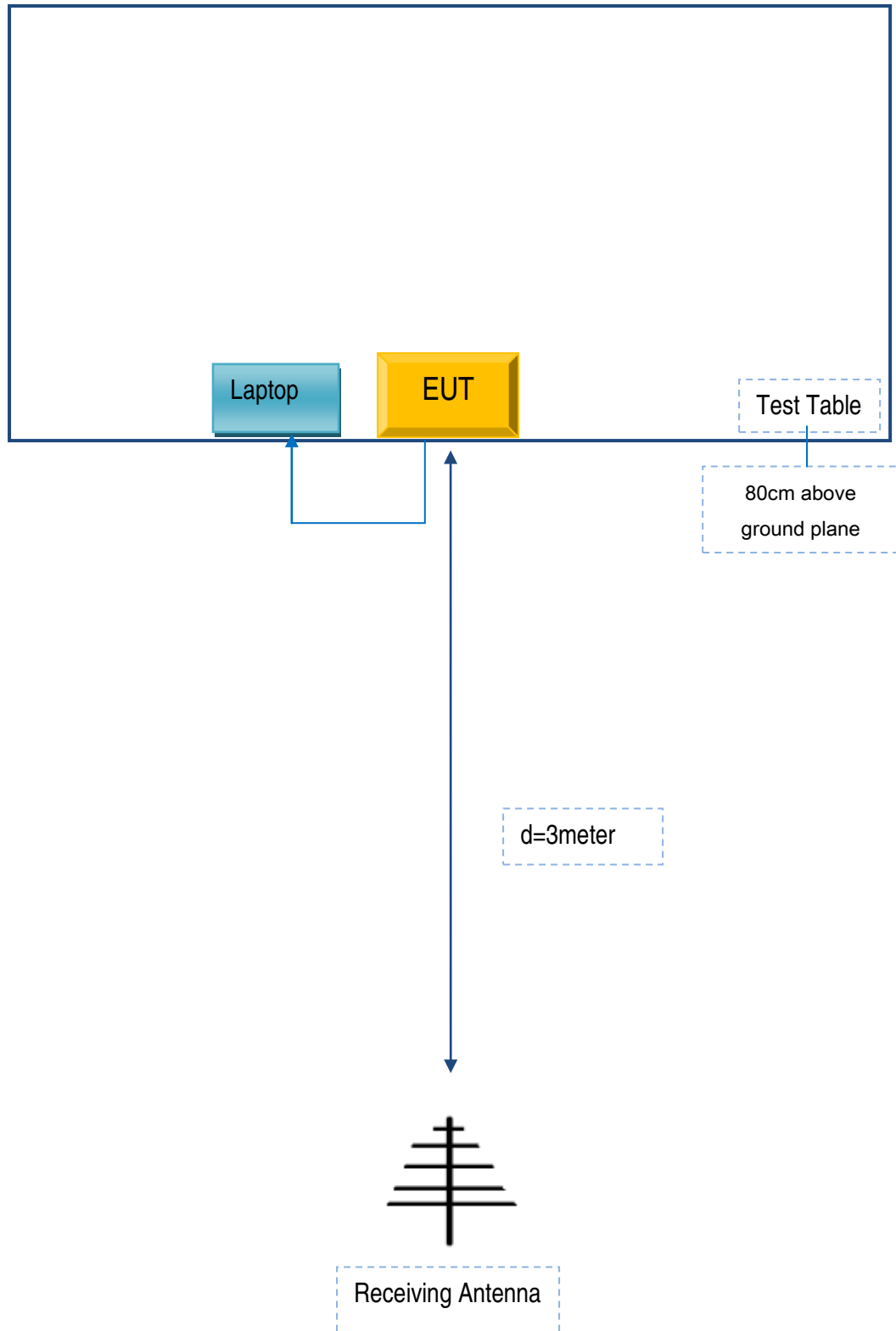
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

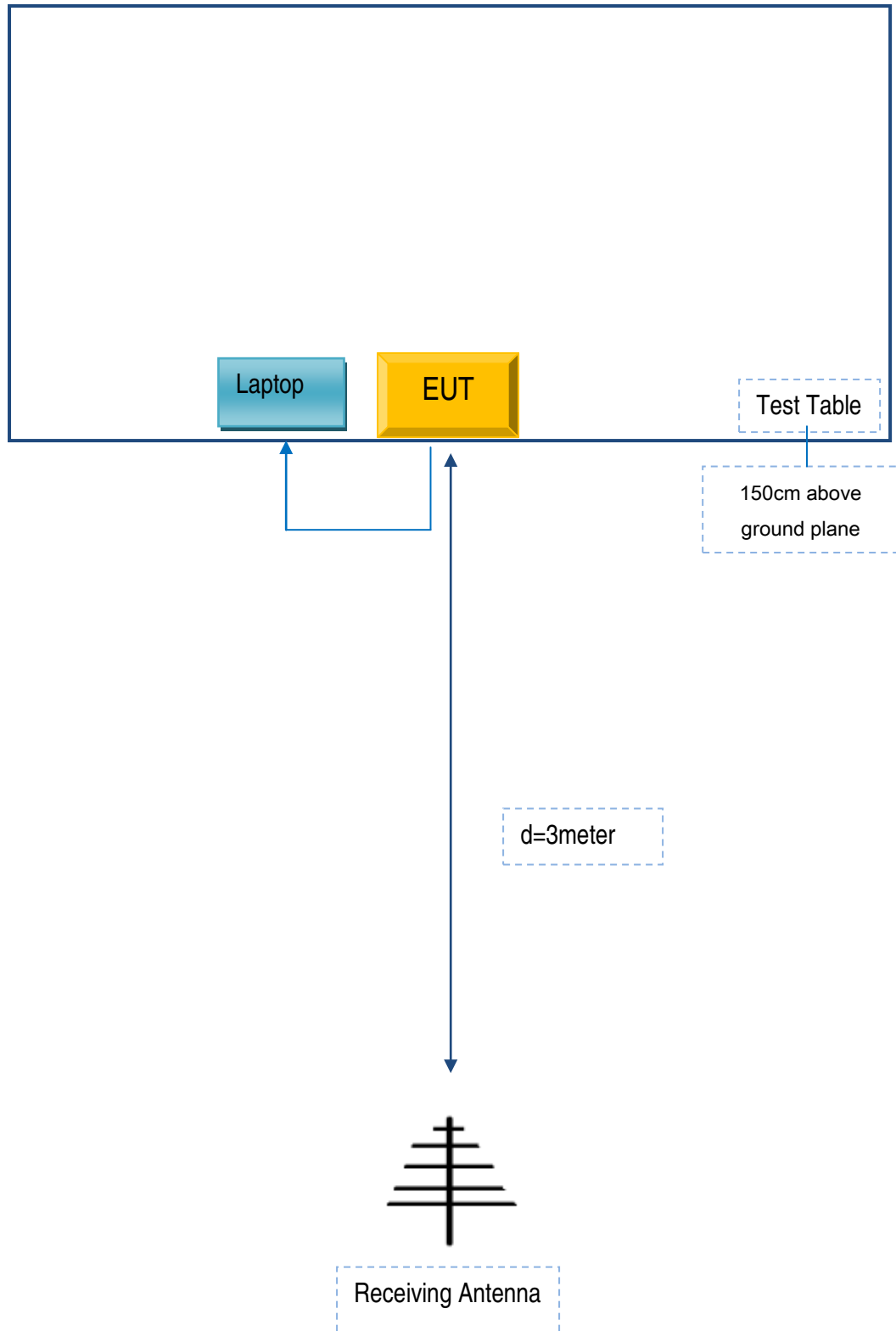
Block Configuration Diagram for AC Line Conducted Emissions



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
Verykool USA Inc	Adapter	A8-50100	F1012
Lenovo	Laptop	E40	LR-1EHRX
NOKIA	Phone	S6T	TX210018

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	F1012
Power Cable	Un-shielding	No	0.5m	GT211032

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

Please see the attachment

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Annex E. DECLARATION OF SIMILARITY

N/A