

RF TEST REPORT



Report No.: 17070388-FCC-R2-V1

Supersede Report No.: N/A

Applicant	BLU Products, Inc.	
Product Name	Mobile Phone	
Model No.	R2	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2016, ANSI C63.10: 2013	
Test Date	May 27 to June 19 & 26 , 2017	
Issue Date	June 26, 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"/>	
<i>Loren Luo</i>	<i>David Huang</i>	
Loren Luo Test Engineer	David Huang Checked By	
<p>This test report may be reproduced in full only</p> <p>Test result presented in this test report is applicable to the tested sample only</p>		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

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



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

Accreditations for Conformity Assessment

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

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070388-FCC-R2	NONE	Original	June 20, 2017
17070388-FCC-R2-V1	V1	Added the Radiated Emission test data (9kHz-30MHz)	June 26, 2017

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

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)

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;
RX: 1932.4 ~ 1987.6 MHz

LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz

WIFI: 802.11n(40M): 2422-2452 MHz

Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

Max. Output Power: 4.748dBm

GSM 850: 124CH

PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band IV: 202CH

Number of Channels: UMTS-FDD Band II: 277CH

WIFI :802.11b/g/n(20M): 11CH

WIFI :802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH

GPS:1CH

Port: USB Port, Earphone Port

Adapter:

Model: US-WT-1500

Input: AC100-240V~50/60Hz,0.3A

Output: DC 5V,1.5A

Input Power:

Battery:

Model: C716041300P

Spec : 3.8V,3000mAh,11.4Wh

Input : 5.0V,1.5A

Trade Name : BLU

FCC ID: YHLBLUR2

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

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 3 antennas:

A permanently attached PIFA antenna for GSM /PCS/ UMTS-FDD Band V/ IV/ II, the gain is -2.8dBi for GSM, the gain is -2.3dBi for PCS, the gain is -2.5dBi for UMTS-FDD Band V/ IV/ II.

A permanently attached PIFA antenna for LTE Band VII, the gain is 0.6dBi for LTE Band II, the gain is 0.3dBi for LTE Band IV, the gain is 0.8dBi for LTE Band VII, the gain is -3.0dBi for LTE Band VII.

A permanently attached PIFA antenna for Bluetooth/WIFI/BLE/GPS, the gain is -2.7dBi for Bluetooth/WIFI/BLE, the gain is -2.9dBi for GPS.

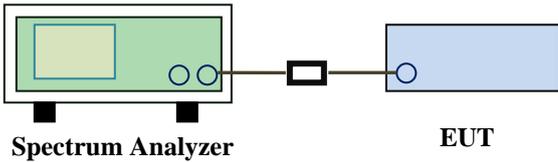
The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 Channel Separation

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	June 12, 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

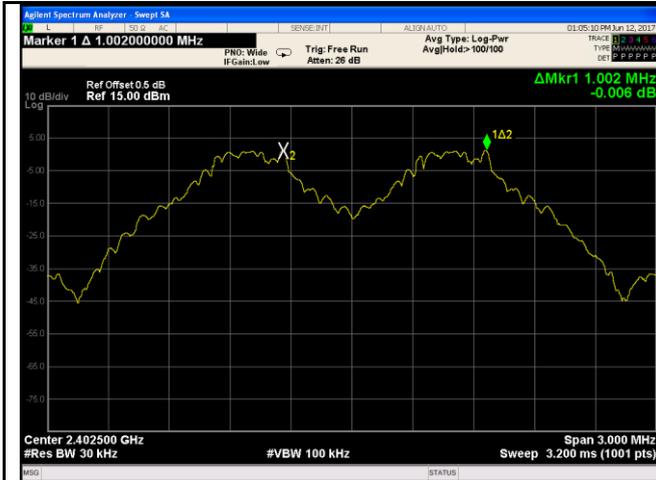
Test Plot Yes (See below) N/A

Channel Separation measurement result

Type/ Modulation	CH	CH Frequency (MHz)	CH Separation (MHz)	Limit (MHz)	Result
CH Separation GFSK	Low Channel	2402	1.002	0.689	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.694	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.691	Pass
	Adjacency Channel	2479			
CH Separation $\pi/4$ DQPSK	Low Channel	2402	1.002	0.873	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.862	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.860	Pass
	Adjacency Channel	2479			
CH Separation 8DPSK	Low Channel	2402	1.002	0.863	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.861	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.860	Pass
	Adjacency Channel	2479			

Test Plots

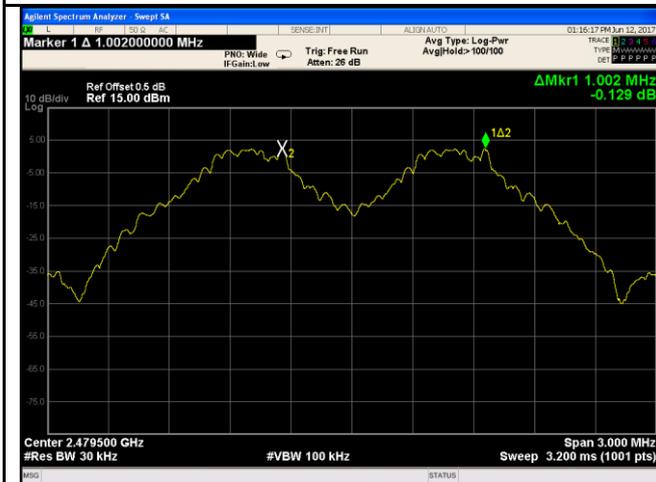
Channel Separation measurement result



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

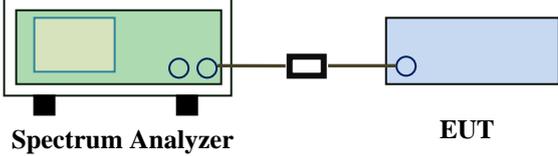


6.3 20dB Bandwidth

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	June 12, 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. Use the following spectrum analyzer settings:</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	1.034	0.8937
	Mid	2441	1.041	0.8942
	High	2480	1.036	0.8953
$\pi/4$ DQPSK	Low	2402	1.310	1.1733
	Mid	2441	1.293	1.1712
	High	2480	1.290	1.1695
8-DPSK	Low	2402	1.294	1.1807
	Mid	2441	1.292	1.1762
	High	2480	1.290	1.1752

Test Plots

20dB Bandwidth measurement result



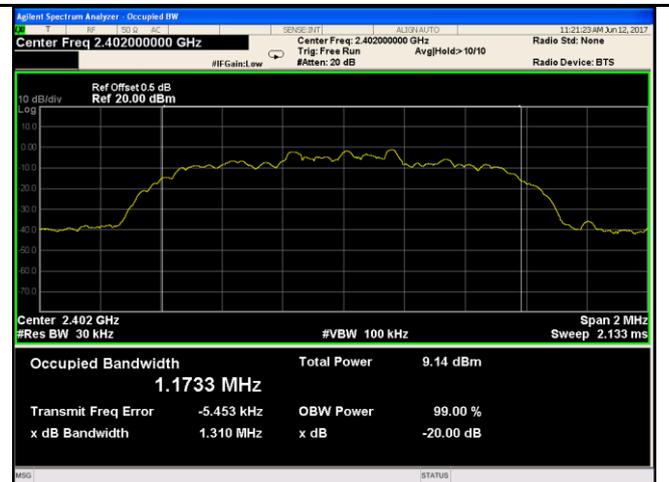
GFSK - Low Channel



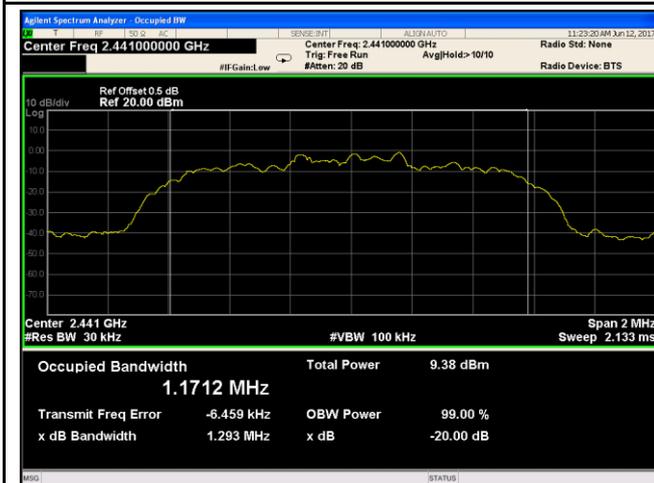
GFSK - Middle Channel



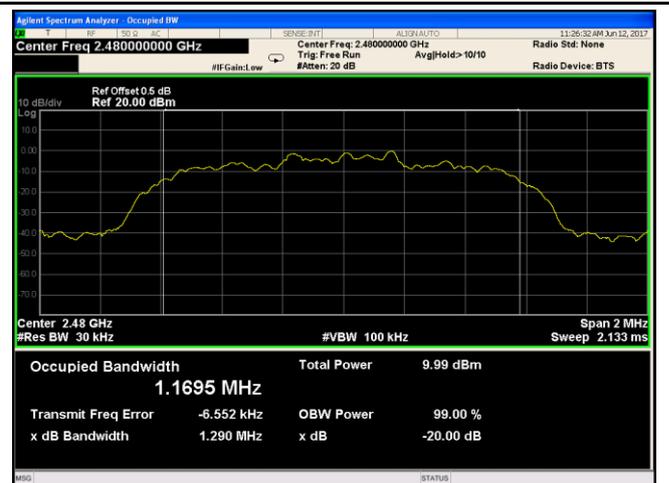
GFSK - High Channel



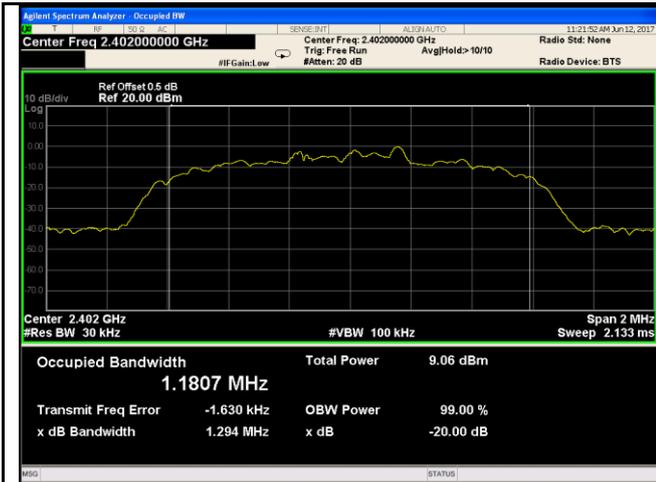
$\pi/4$ DPSK - Low Channel



$\pi/4$ DQPSK - Middle Channel



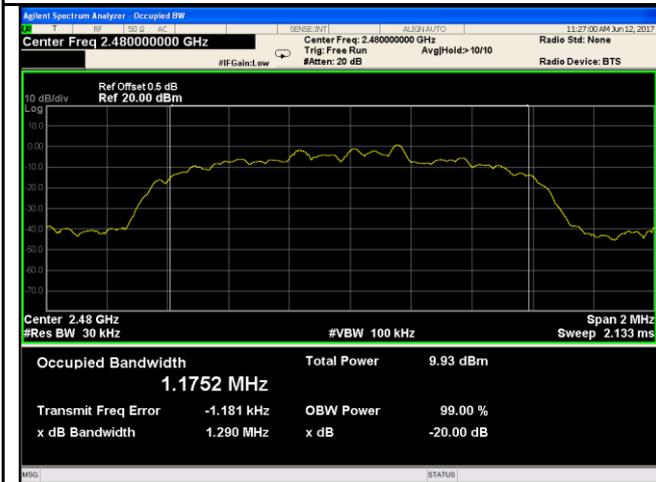
$\pi/4$ DQPSK - High Channel



8DPSK - Low Channel



8DPSK - Middle Channel



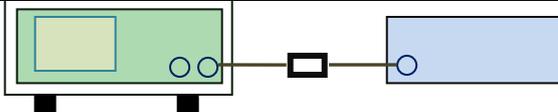
8DPSK - High Channel

6.4 Peak Output Power

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	June 12, 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

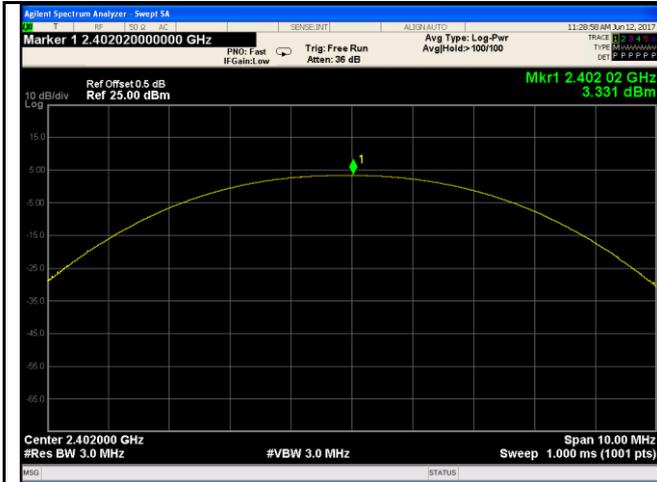
Test Data Yes N/A
 Test Plot Yes (See below) N/A

Peak Output Power measurement result

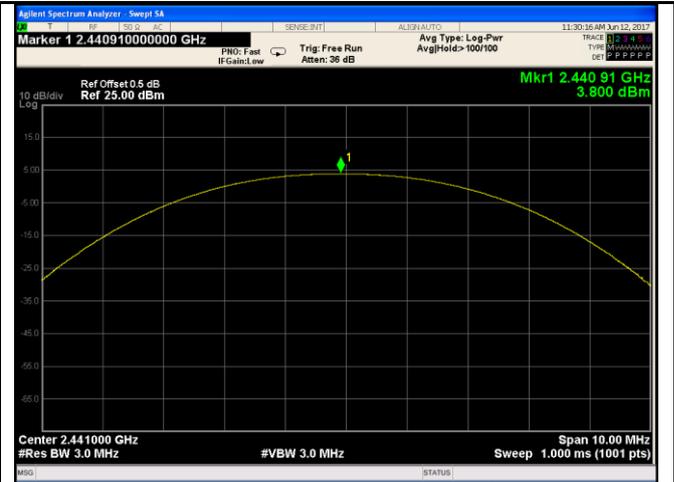
Type	Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power	GFSK	Low	2402	3.331	125	Pass
		Mid	2441	3.800	125	Pass
		High	2480	4.748	125	Pass
	$\pi/4$ DQPSK	Low	2402	2.588	125	Pass
		Mid	2441	2.965	125	Pass
		High	2480	3.824	125	Pass
	8-DPSK	Low	2402	2.796	125	Pass
		Mid	2441	3.186	125	Pass
		High	2480	4.043	125	Pass

Test Plots

Output Power measurement result



GFSK Output power - Low CH 2402



GFSK Output power - Mid CH 2441



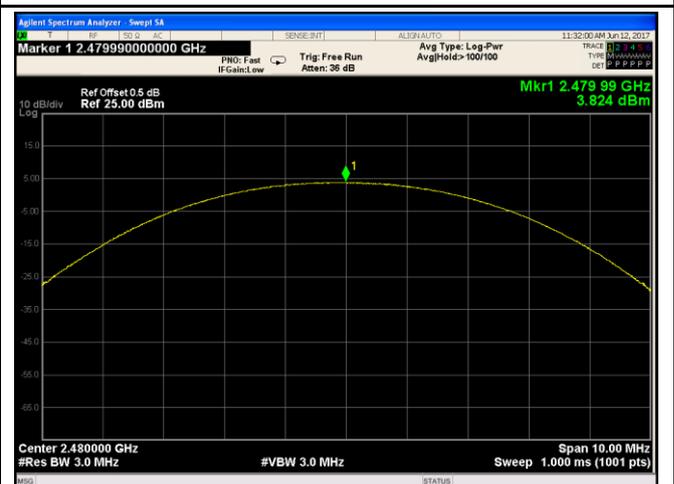
GFSK Output power - High CH 2480



$\pi/4$ 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

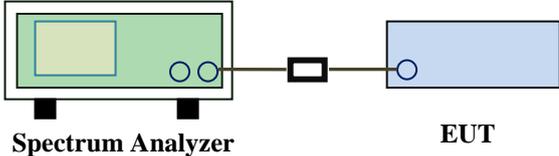


8DPSK Output power - High CH 2480

6.5 Number of Hopping Channel

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	June 12, 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		

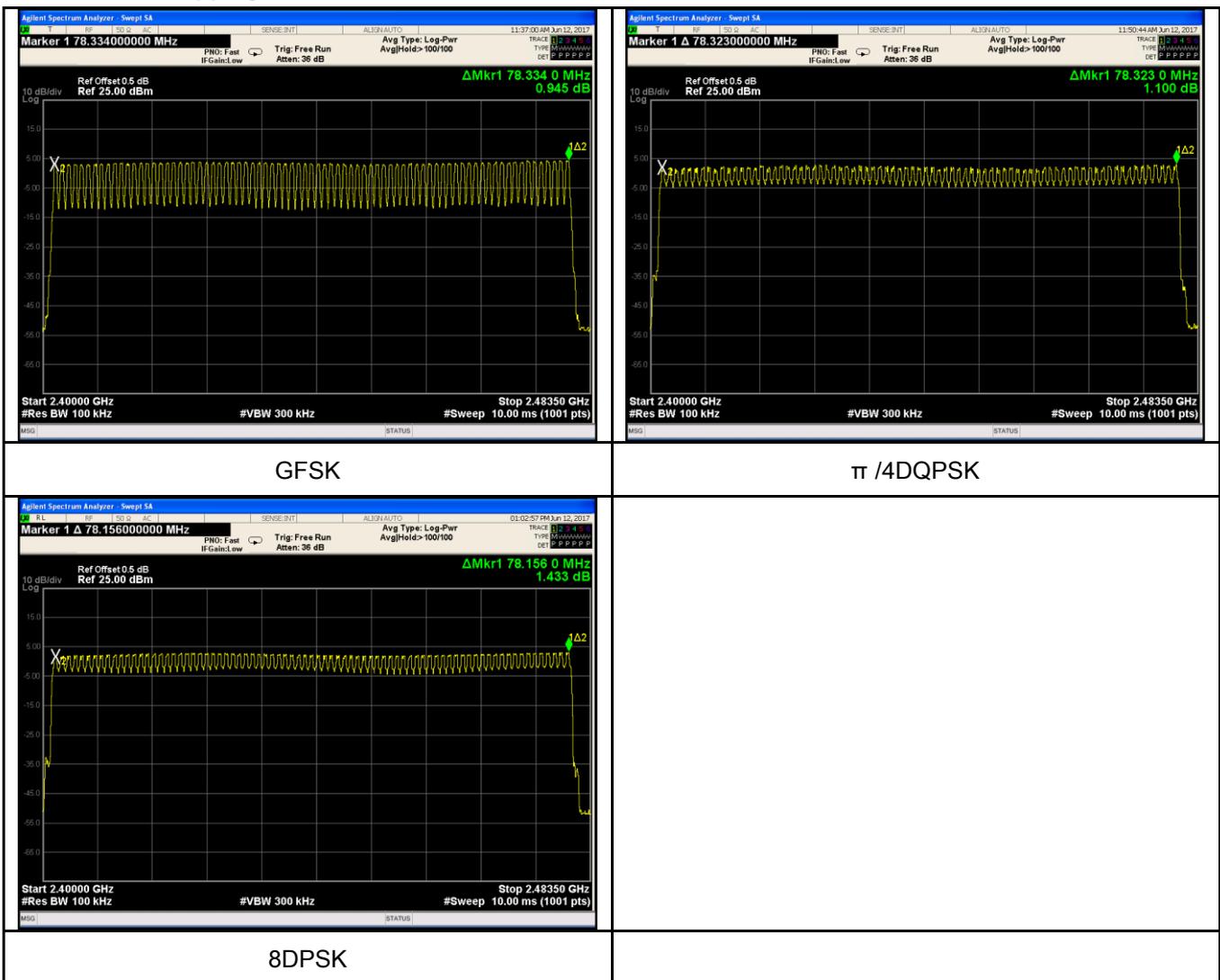
Test Data Yes N/A
 Test Plot Yes (See below) N/A

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
	$\pi/4$ DQPSK	2400-2483.5	79	15
	8-DPSK	2400-2483.5	79	15

Test Plots

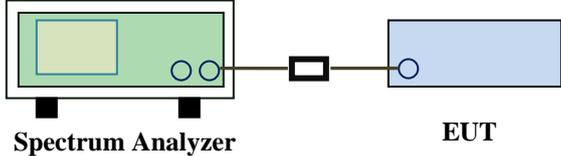
Number of Hopping Channels measurement result



6.6 Time of Occupancy (Dwell Time)

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	June 12, 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

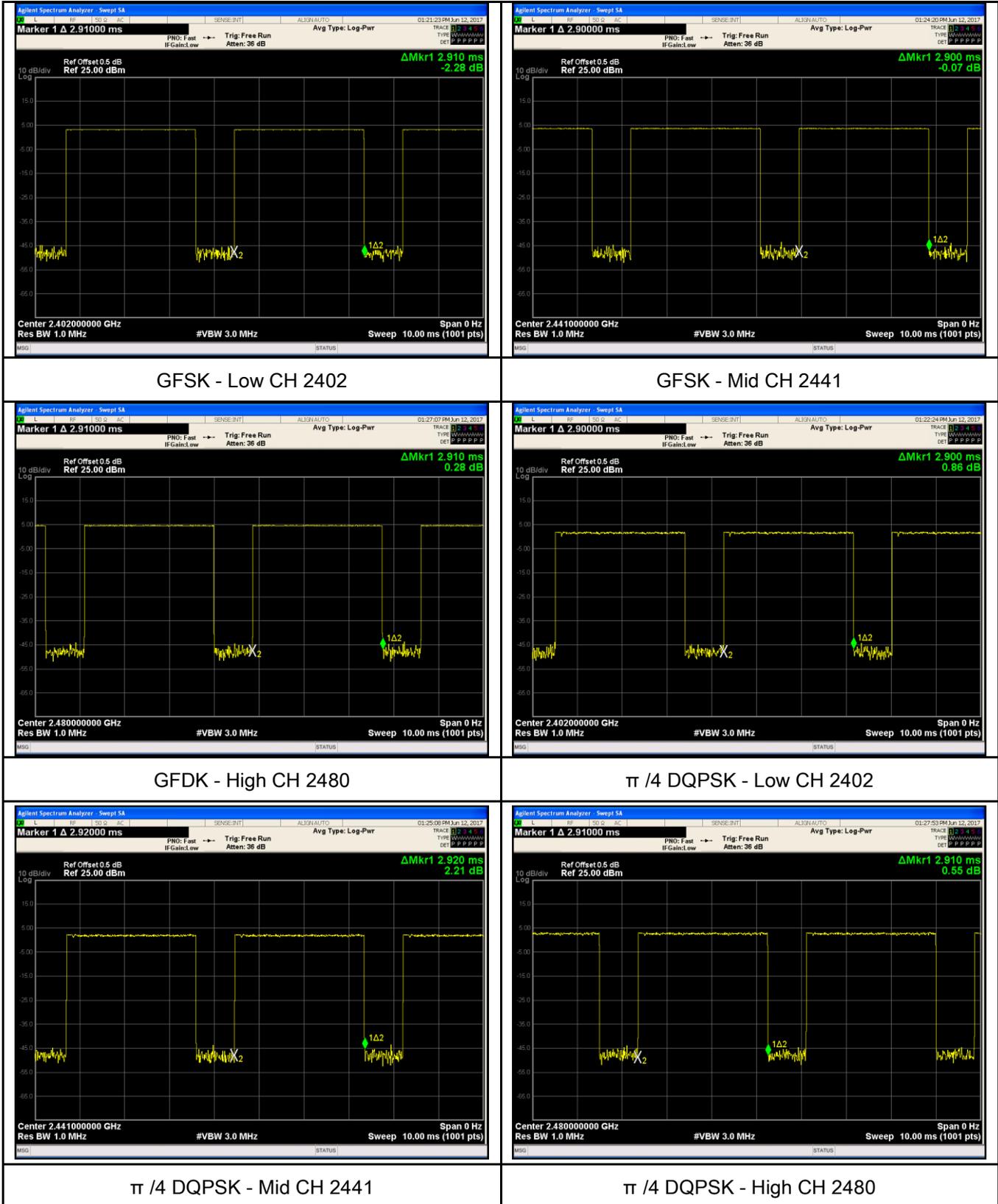
Test Plot Yes (See below) N/A

Dwell Time measurement result

Type	Modulation	CH	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
Dwell Time	GFSK	Low	2.910	310.400	400	Pass
		Mid	2.900	309.333	400	Pass
		High	2.910	310.400	400	Pass
	π /4 DQPSK	Low	2.900	309.333	400	Pass
		Mid	2.920	311.467	400	Pass
		High	2.910	310.400	400	Pass
	8-DPSK	Low	2.930	312.533	400	Pass
		Mid	2.910	310.400	400	Pass
		High	2.920	311.467	400	Pass
Note: Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6						

Test Plots

Dwell Time measurement result





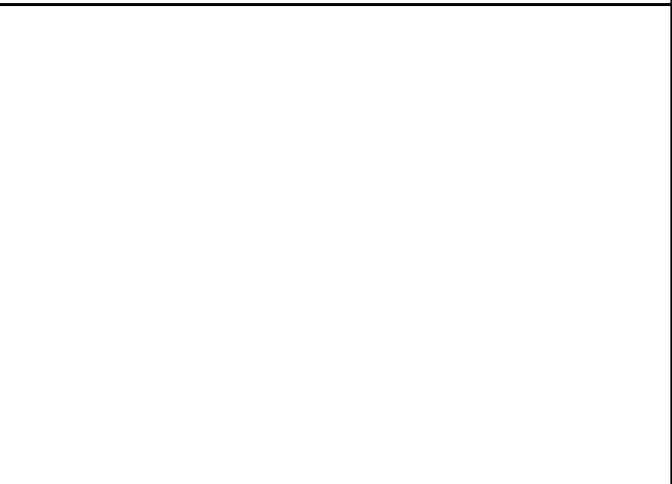
8DPSK - Low CH 2402



8DPSK - Mid CH 2441



8DPSK - High CH 2480

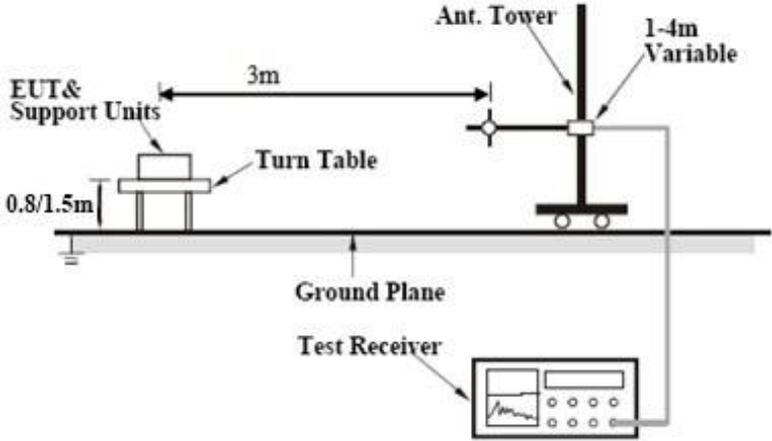


6.7 Band Edge & Restricted Band

Temperature	22 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 13, 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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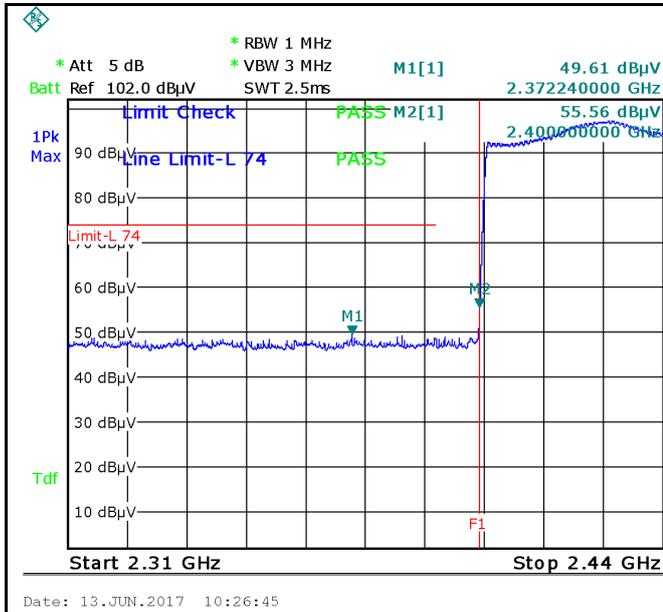
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Radiated Method Only</p> <ul style="list-style-type: none"> - 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. - 2. Position the 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

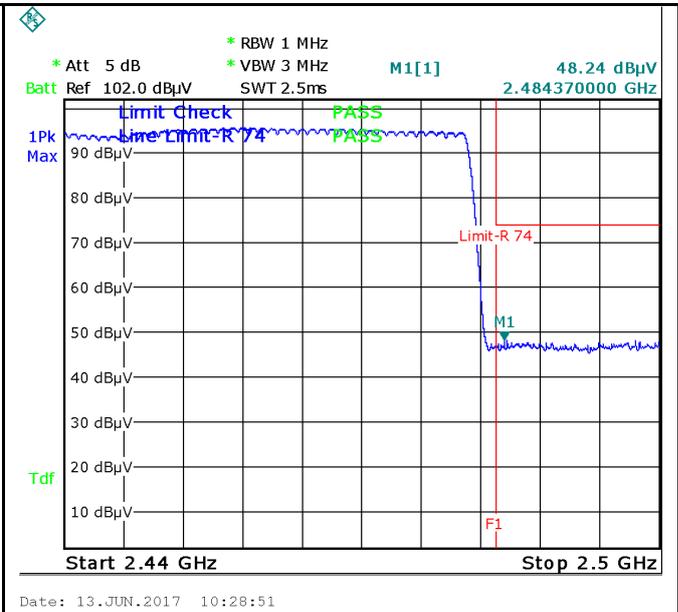
Test Data Yes N/A
Test Plot Yes (See below) N/A

Test Plots

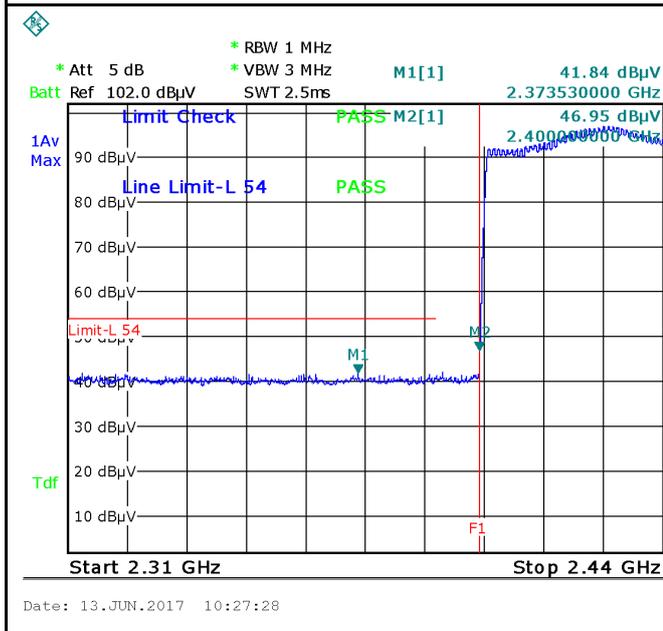
GFSK Mode:



GFSK-Hopping Left Side-PK
Note: F1 is frequency 2400MHz



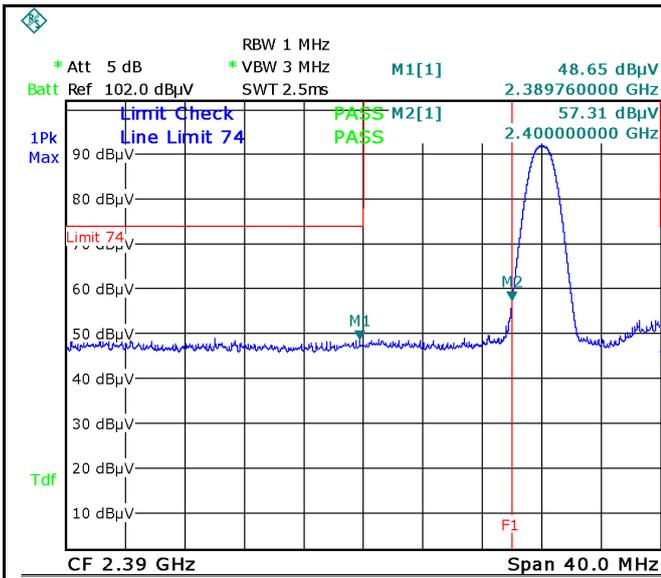
GFSK-Hopping Right Side-PK
Note: F1 is frequency 2483.5MHz



GFSK-Hopping Left Side-AV

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

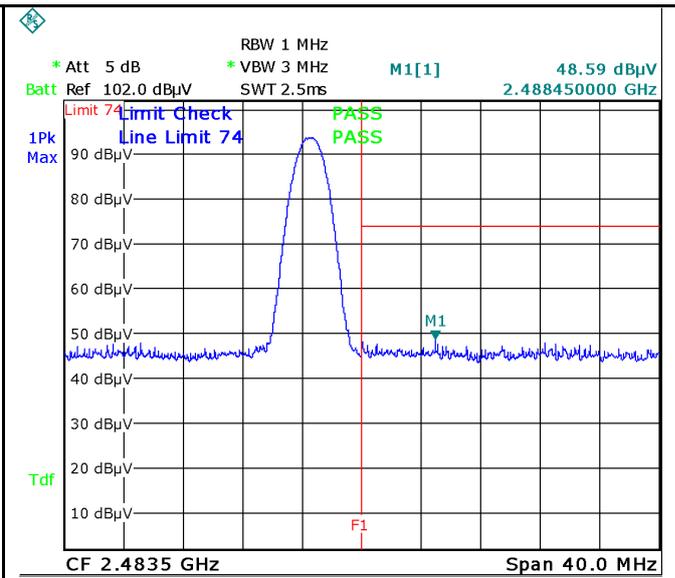
GFSK-Hopping Right Side-AV



Date: 13.JUN.2017 10:15:01

GFSK-Left Side-PK

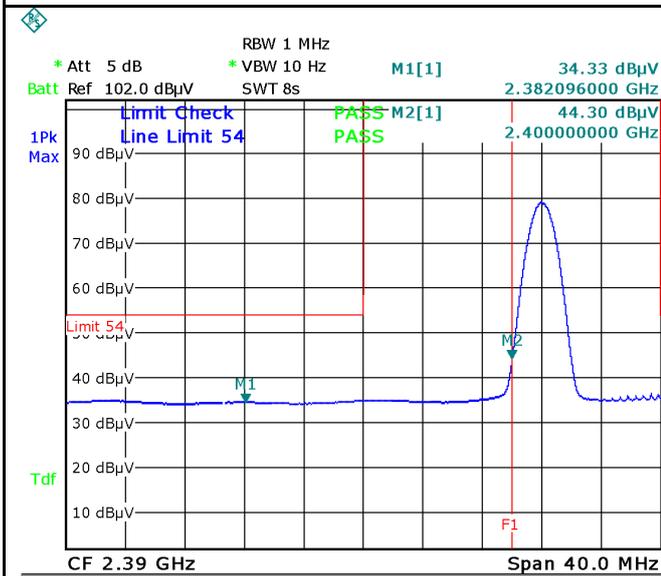
Note: F1 is frequency 2400MHz



Date: 13.JUN.2017 09:56:27

GFSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



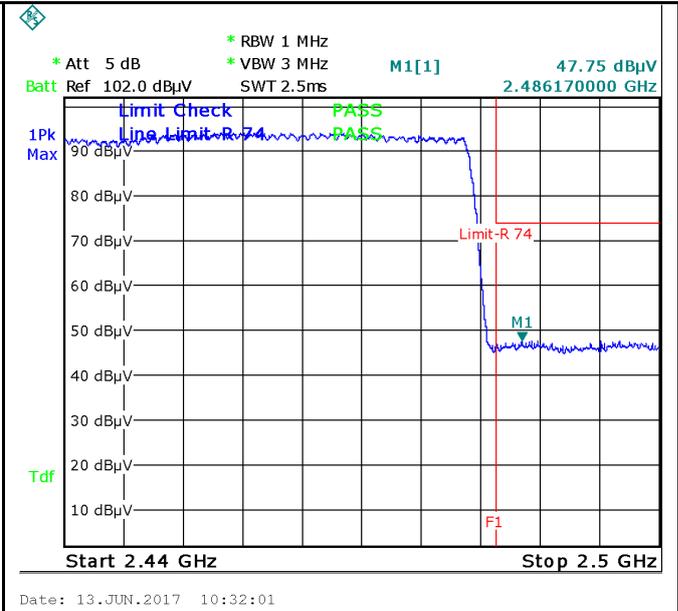
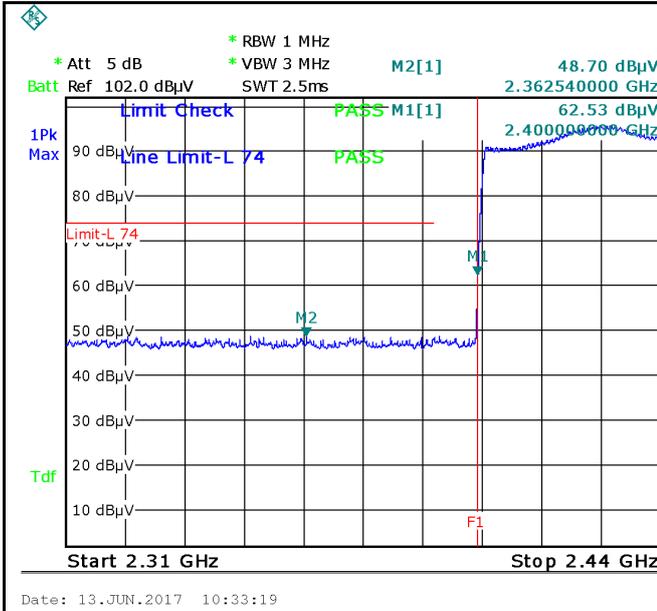
Date: 13.JUN.2017 10:16:49

GFSK-Left Side-AV

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

GFSK-Right Side-AV

π / 4 DQPSK Mode:

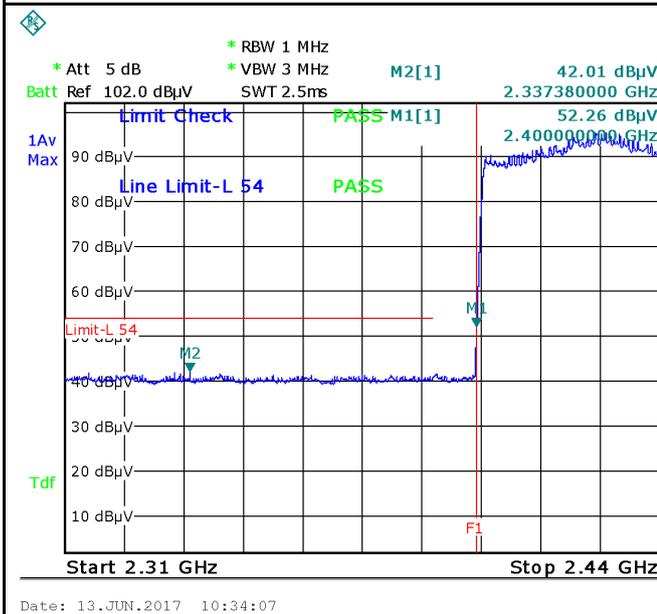


π / 4 DQPSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz

π / 4 DQPSK-Hopping Right Side-PK

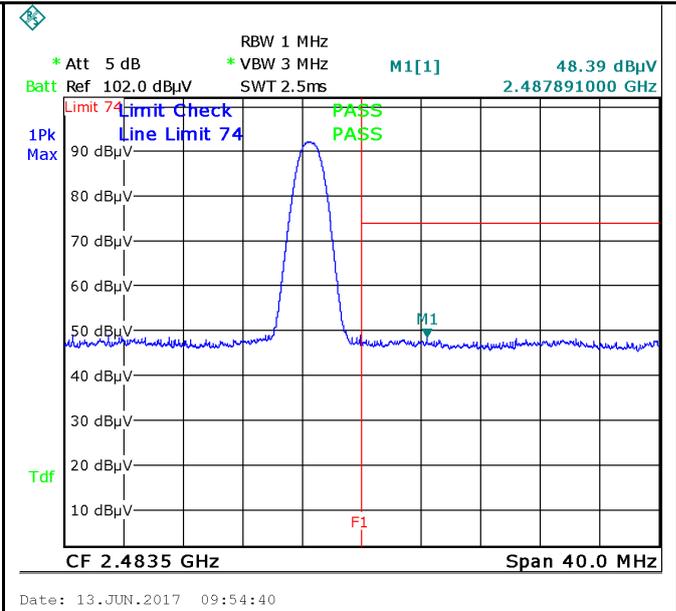
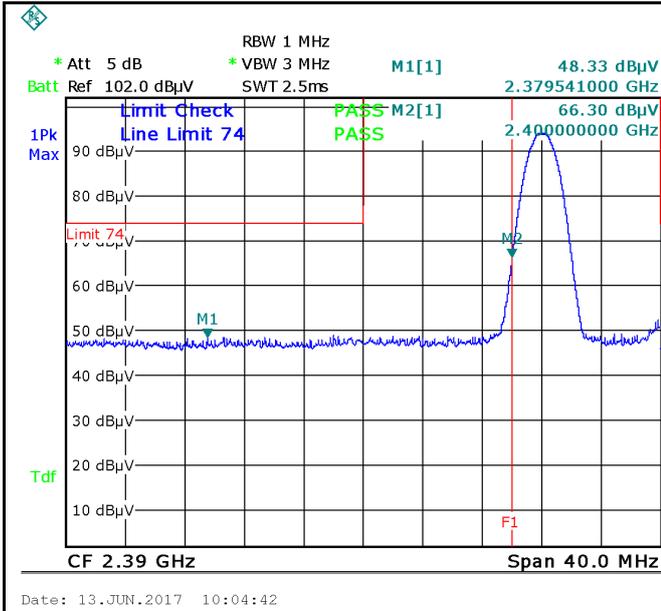
Note: F1 is frequency 2483.5MHz



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

π / 4 DQPSK-Hopping Left-AV

π / 4 DQPSK-Hopping Right-AV

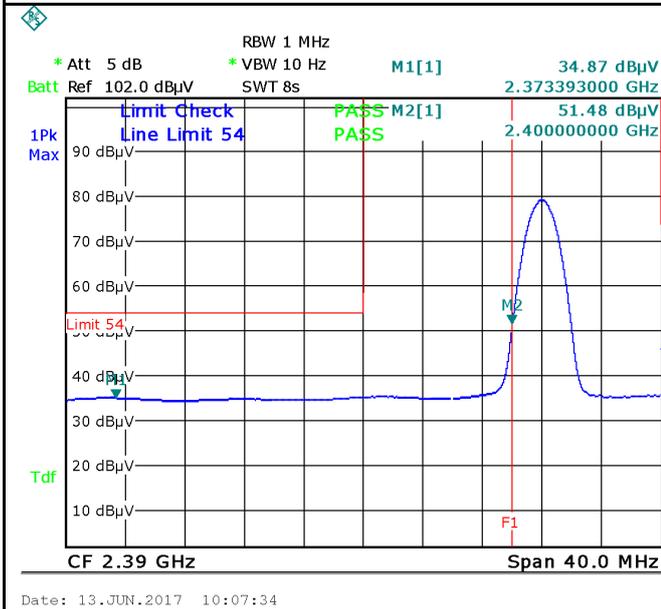


π / 4 DQPSK-Left Side-PK

Note: F1 is frequency 2400MHz

π / 4 DQPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz

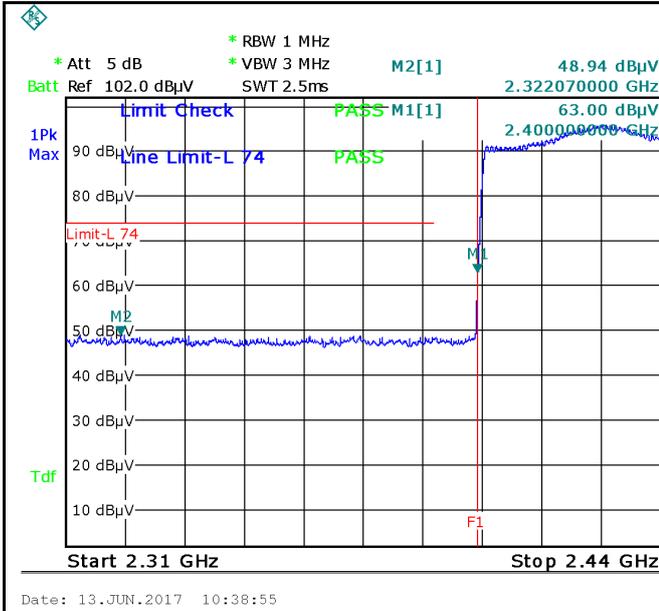


Note: (no need if PK value less than the AV limit)

π / 4 DQPSK-Left Side-AV

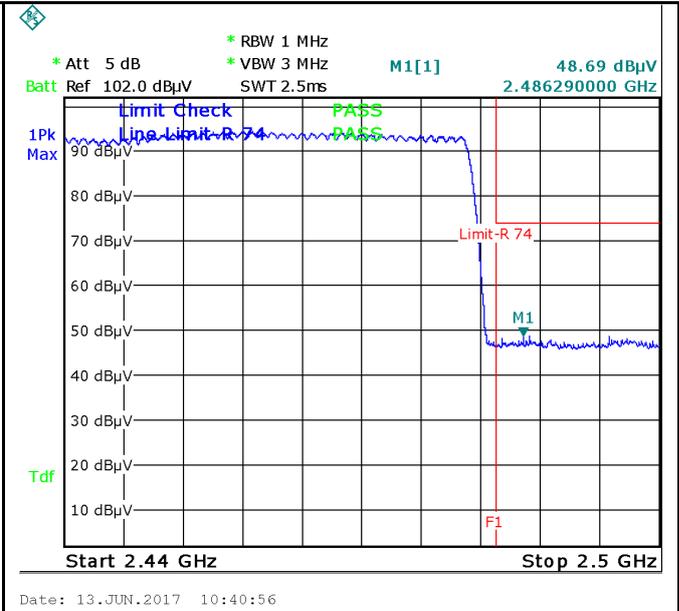
π / 4 DQPSK-Right Side-AV

8-DPSK Mode:



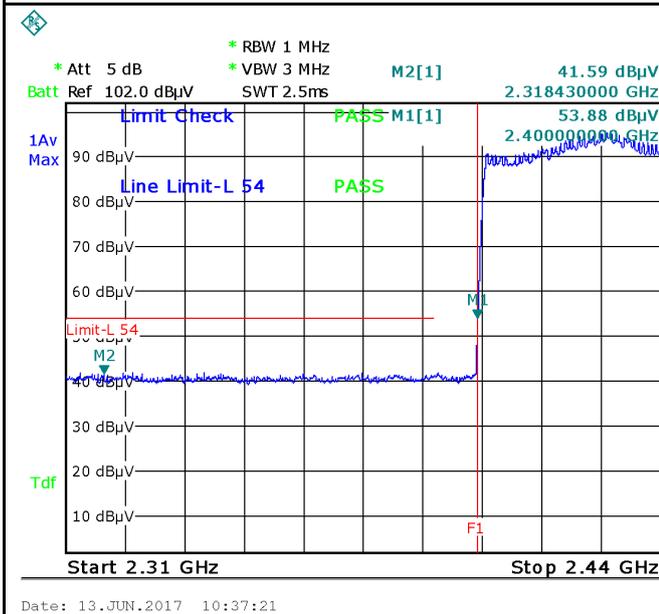
8DPSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz



8DPSK-Hopping Right Side-PK

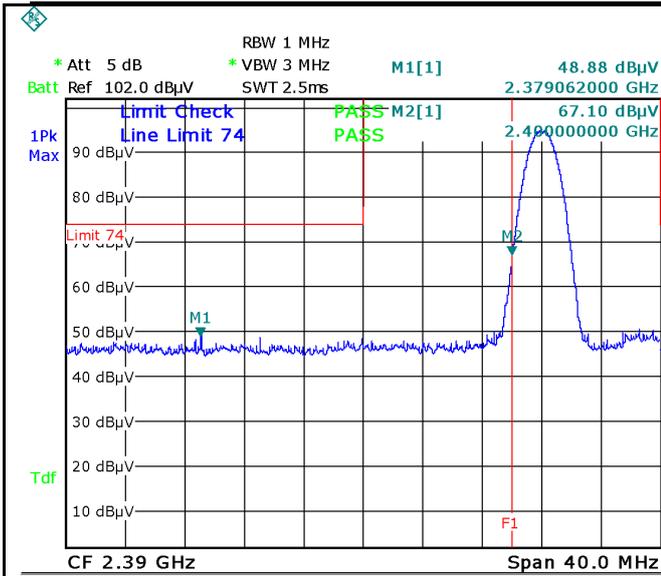
Note: F1 is frequency 2483.5MHz



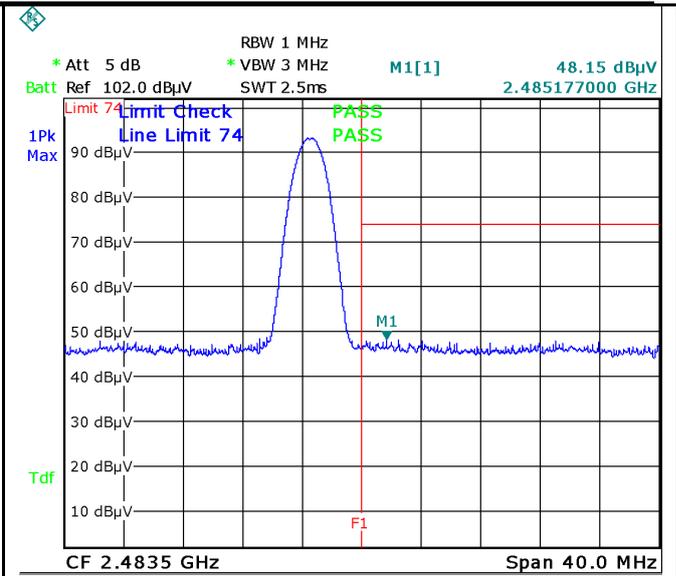
8DPSK-Hopping Left-AV

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

8DPSK-Hopping Right-AV



Date: 13.JUN.2017 10:05:58



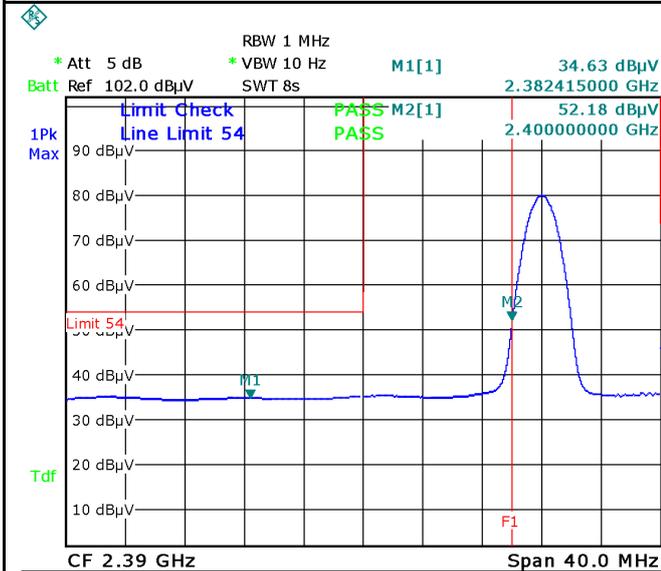
Date: 13.JUN.2017 09:56:46

8DPSK-Left Side-PK

Note: F1 is frequency 2400MHz

8DPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



Date: 13.JUN.2017 10:08:05

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

8DPSK-Left Side-AV

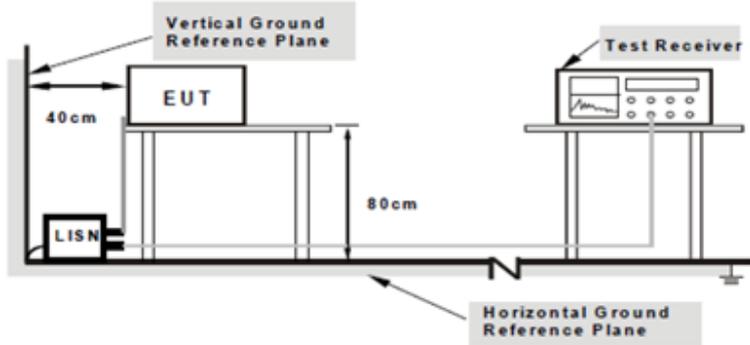
8DPSK-Right Side-AV

6.8 AC Power Line Conducted Emissions

Temperature	22 °C
Relative Humidity	51%
Atmospheric Pressure	1009mbar
Test date :	June 09, 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															

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"> 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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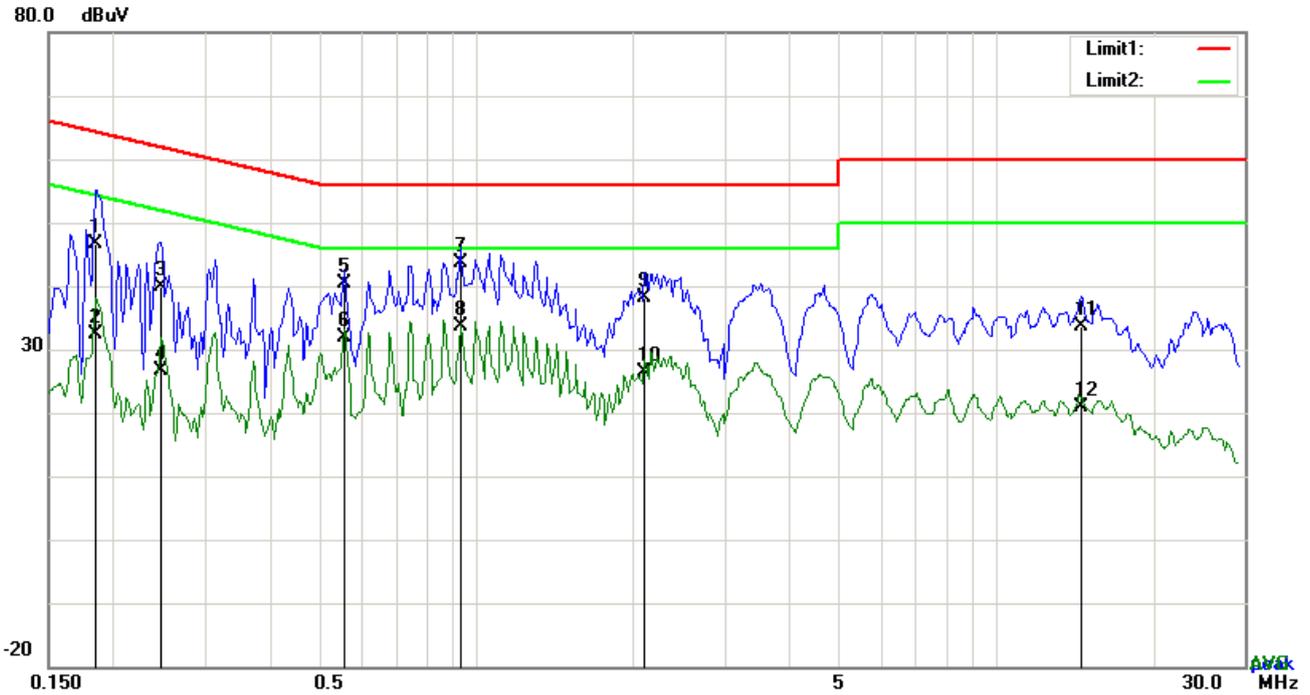
Test Report	17070388-FCC-R2-V1
Page	37 of 68

	<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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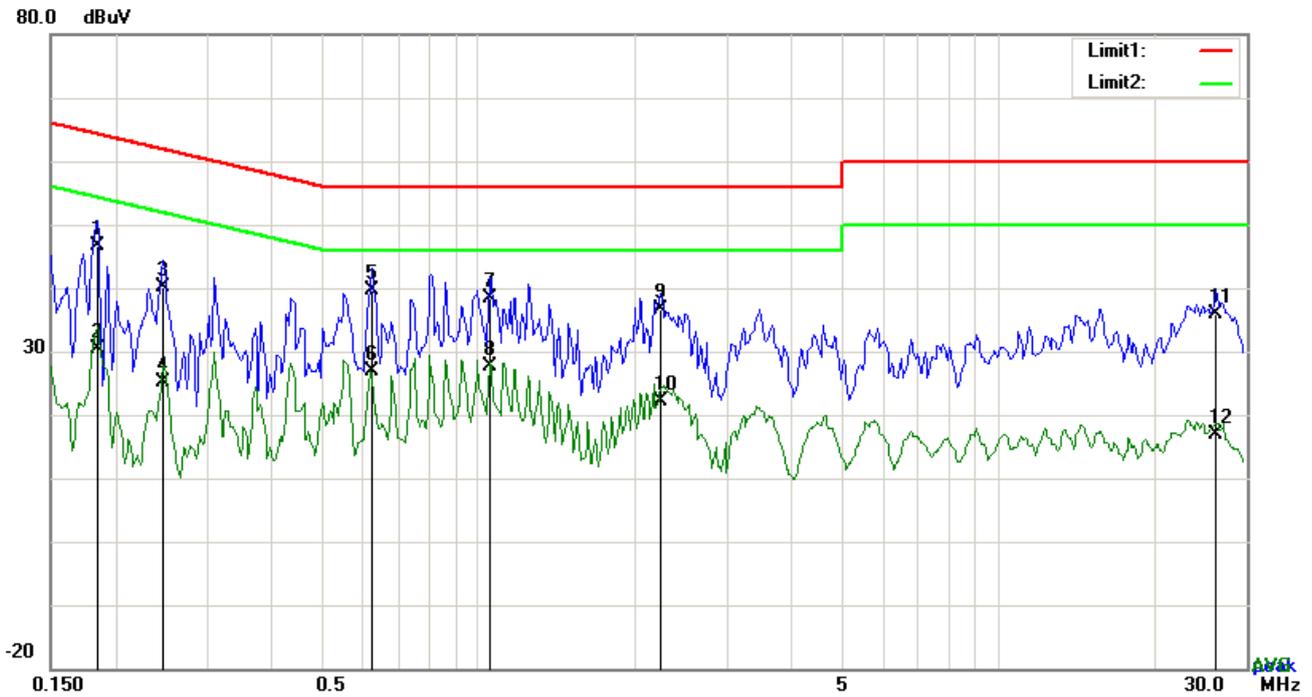


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1851	36.51	QP	10.03	46.54	64.25	-17.71
2	L1	0.1851	22.28	AVG	10.03	32.31	54.25	-21.94
3	L1	0.2475	29.86	QP	10.03	39.89	61.84	-21.95
4	L1	0.2475	16.67	AVG	10.03	26.70	51.84	-25.14
5	L1	0.5556	30.32	QP	10.03	40.35	56.00	-15.65
6	L1	0.5556	21.87	AVG	10.03	31.90	46.00	-14.10
7	L1	0.9300	33.50	QP	10.03	43.53	56.00	-12.47
8	L1	0.9300	23.58	AVG	10.03	33.61	46.00	-12.39
9	L1	2.1039	27.99	QP	10.04	38.03	56.00	-17.97
10	L1	2.1039	16.29	AVG	10.04	26.33	46.00	-19.67
11	L1	14.5635	23.42	QP	10.22	33.64	60.00	-26.36
12	L1	14.5635	10.60	AVG	10.22	20.82	50.00	-29.18

Test Mode:	Bluetooth Mode
-------------------	-----------------------

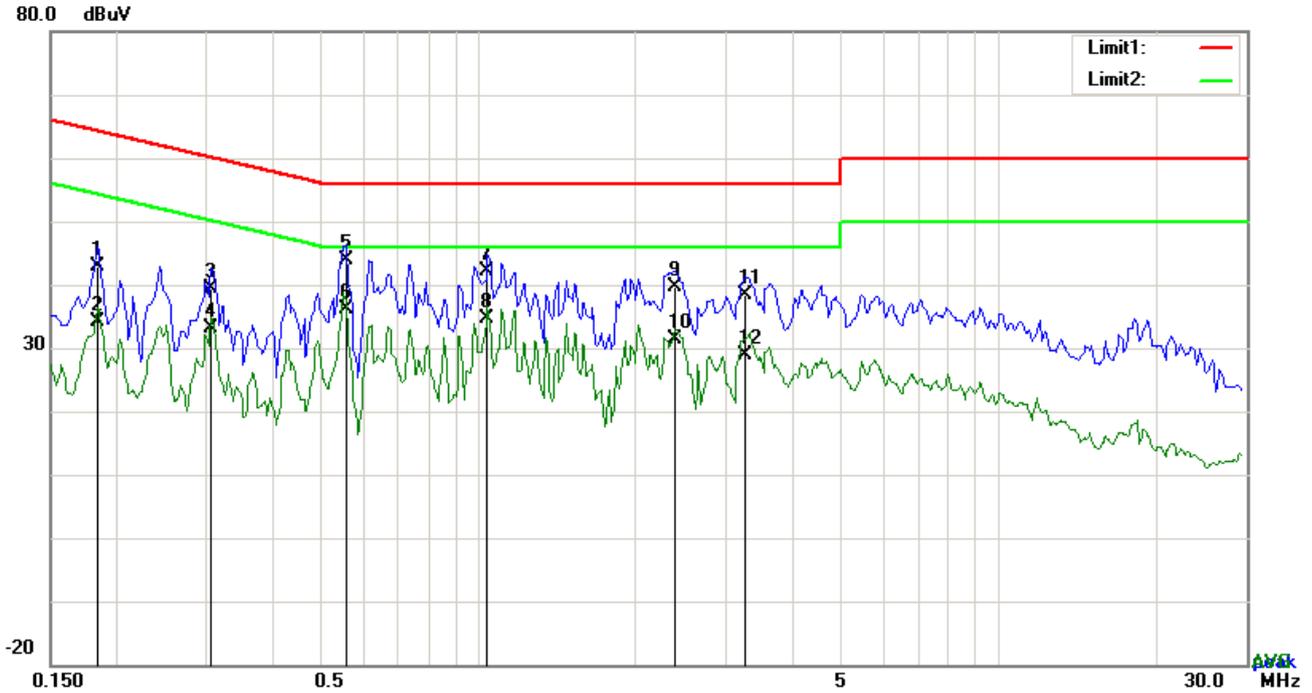


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1851	36.52	QP	10.02	46.54	64.25	-17.71
2	N	0.1851	20.48	AVG	10.02	30.50	54.25	-23.75
3	N	0.2475	30.09	QP	10.02	40.11	61.84	-21.73
4	N	0.2475	15.02	AVG	10.02	25.04	51.84	-26.80
5	N	0.6219	29.64	QP	10.02	39.66	56.00	-16.34
6	N	0.6219	16.96	AVG	10.02	26.98	46.00	-19.02
7	N	1.0509	28.34	QP	10.03	38.37	56.00	-17.63
8	N	1.0509	17.58	AVG	10.03	27.61	46.00	-18.39
9	N	2.2443	26.70	QP	10.04	36.74	56.00	-19.26
10	N	2.2443	12.11	AVG	10.04	22.15	46.00	-23.85
11	N	26.2167	25.59	QP	10.36	35.95	60.00	-24.05
12	N	26.2167	6.54	AVG	10.36	16.90	50.00	-33.10

Test Mode:	Bluetooth Mode
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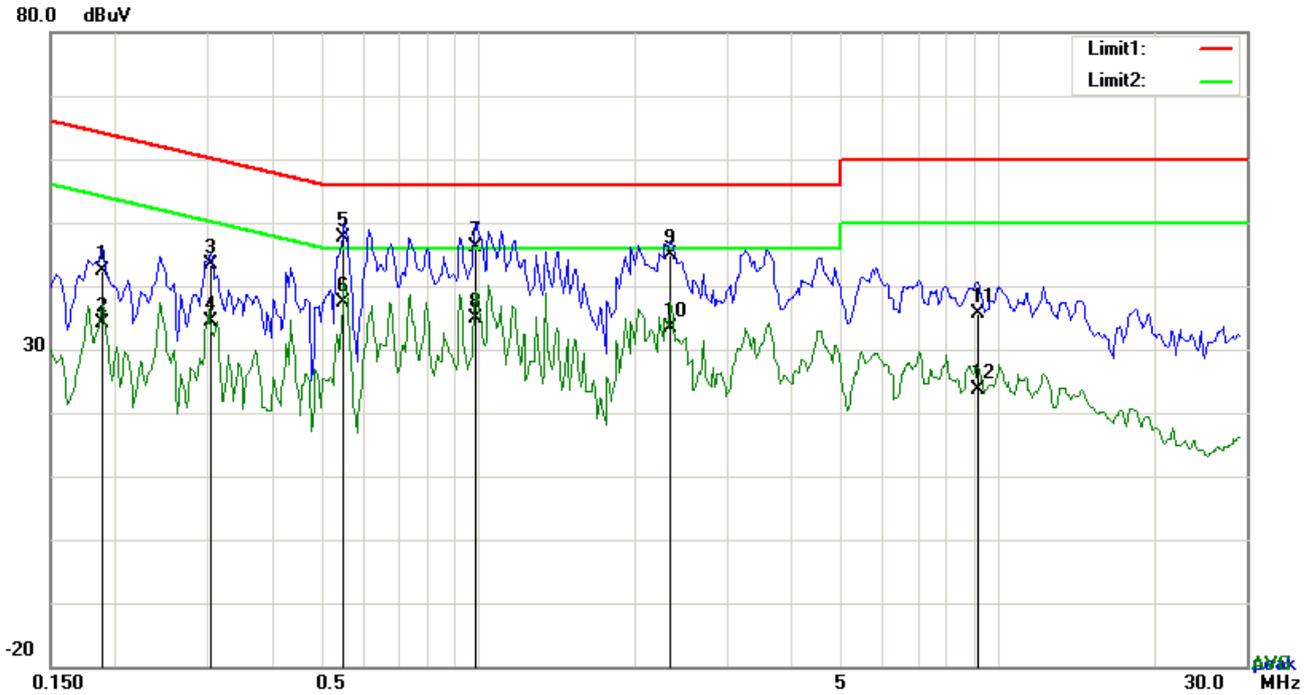


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1851	32.88	QP	10.03	42.91	64.25	-21.34
2	L1	0.1851	24.10	AVG	10.03	34.13	54.25	-20.12
3	L1	0.3060	29.40	QP	10.03	39.43	60.08	-20.65
4	L1	0.3060	22.98	AVG	10.03	33.01	50.08	-17.07
5	L1	0.5556	33.97	QP	10.03	44.00	56.00	-12.00
6	L1	0.5556	26.21	AVG	10.03	36.24	46.00	-9.76
7	L1	1.0392	31.99	QP	10.03	42.02	56.00	-13.98
8	L1	1.0392	24.50	AVG	10.03	34.53	46.00	-11.47
9	L1	2.3925	29.49	QP	10.05	39.54	56.00	-16.46
10	L1	2.3925	21.31	AVG	10.05	31.36	46.00	-14.64
11	L1	3.2574	28.41	QP	10.06	38.47	56.00	-17.53
12	L1	3.2574	18.81	AVG	10.06	28.87	46.00	-17.13

Test Mode:	Bluetooth Mode
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Test Data

Phase Neutral Plot at 240Vac, 60Hz

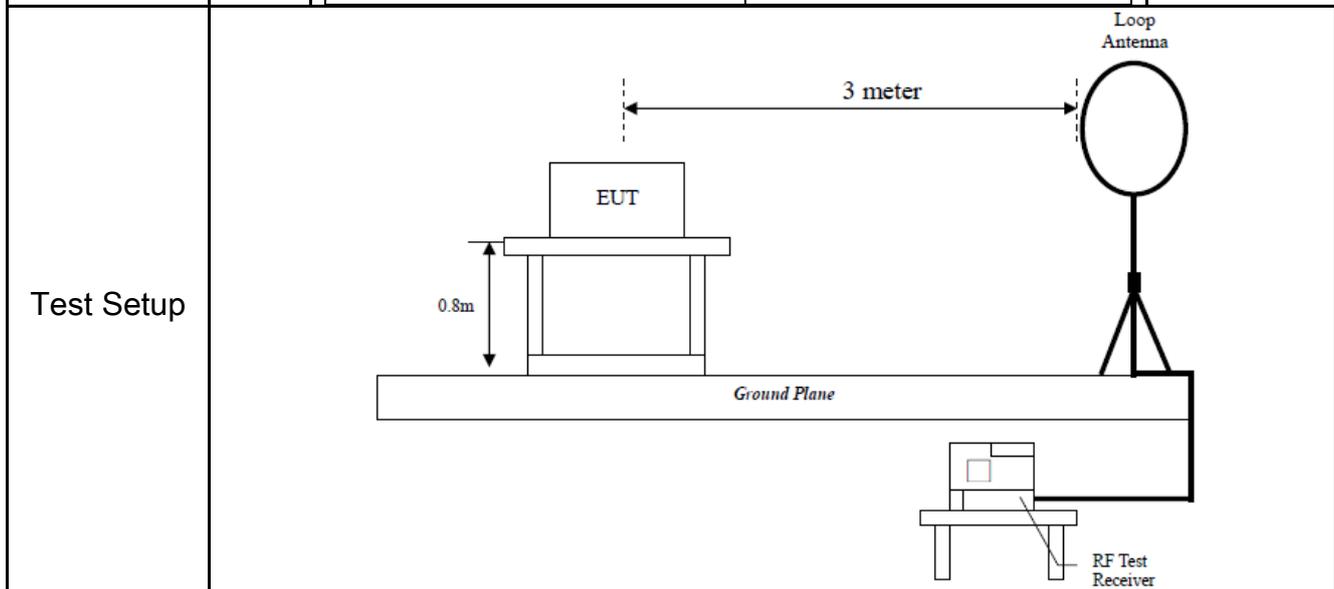
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1890	32.31	QP	10.02	42.33	64.08	-21.75
2	N	0.1890	24.11	AVG	10.02	34.13	54.08	-19.95
3	N	0.3060	33.35	QP	10.02	43.37	60.08	-16.71
4	N	0.3060	24.28	AVG	10.02	34.30	50.08	-15.78
5	N	0.5517	37.53	QP	10.02	47.55	56.00	-8.45
6	N	0.5517	27.44	AVG	10.02	37.46	46.00	-8.54
7	N	0.9885	35.98	QP	10.03	46.01	56.00	-9.99
8	N	0.9885	24.92	AVG	10.03	34.95	46.00	-11.05
9	N	2.3379	34.72	QP	10.04	44.76	56.00	-11.24
10	N	2.3379	23.36	AVG	10.04	33.40	46.00	-12.60
11	N	9.1269	25.61	QP	10.13	35.74	60.00	-24.26
12	N	9.1269	13.49	AVG	10.13	23.62	50.00	-26.38

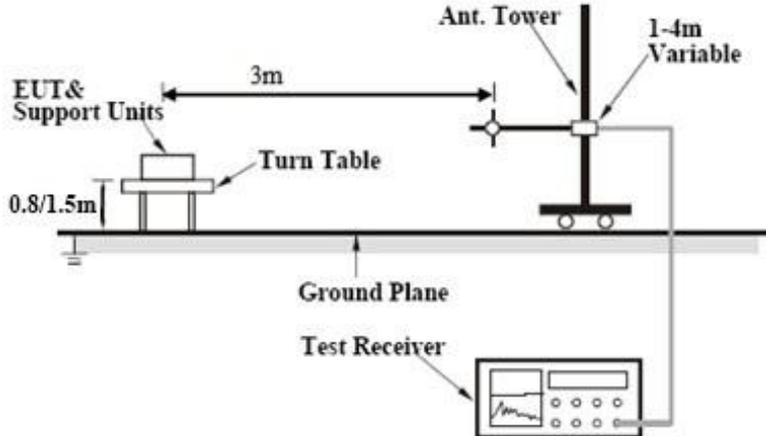
6.9 Radiated Emissions & Restricted Band

Temperature	25 °C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	June 08, 2017 & June 26, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable																
47CFR§15.205, §15.209, §15.247(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	<input checked="" type="checkbox"/>																
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9e1f2;">Frequency range (MHz)</th> <th style="background-color: #d9e1f2;">Field Strength ($\mu\text{V}/\text{m}$)</th> </tr> </thead> <tbody> <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> </tbody> </table>		Frequency range (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	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 ($\mu\text{V}/\text{m}$)															
		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																		



	
<p>Procedure</p>	<ol style="list-style-type: none"> 1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. 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. 5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
<p>Remark</p>	
<p>Result</p>	<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
-------------------	-------------------

Frequency range: 9KHz - 30MHz

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

Note:

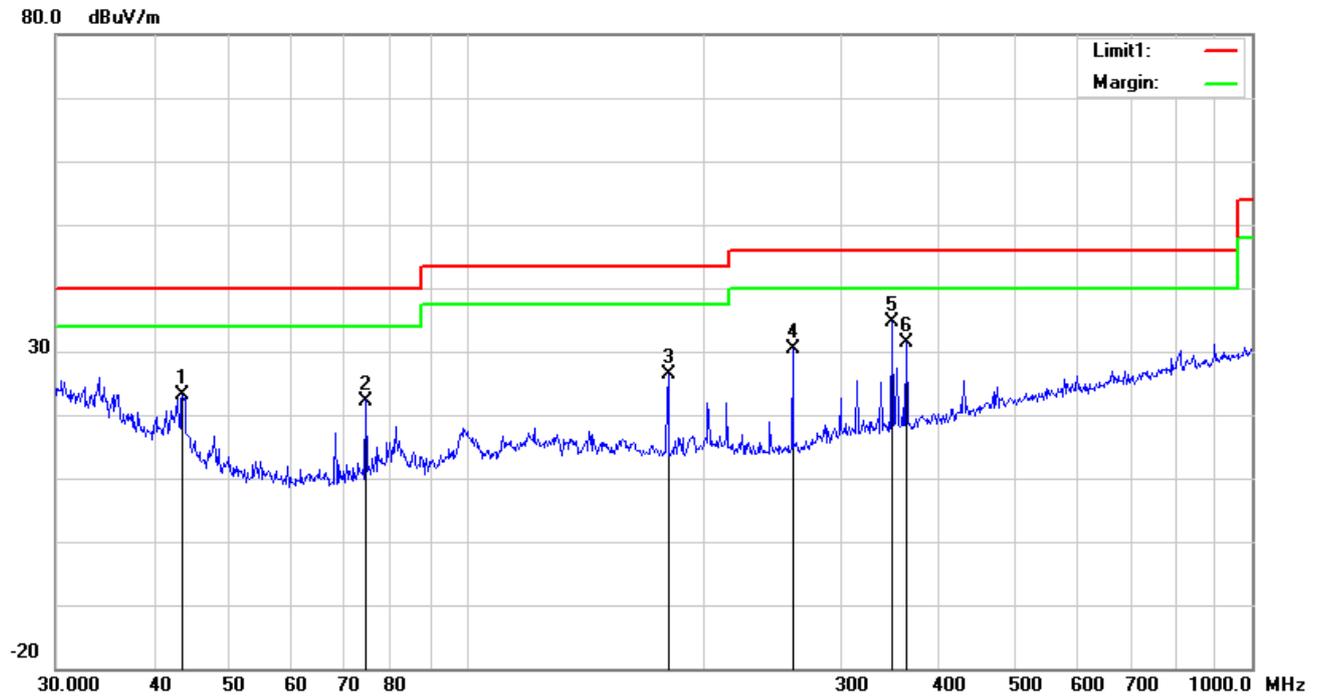
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

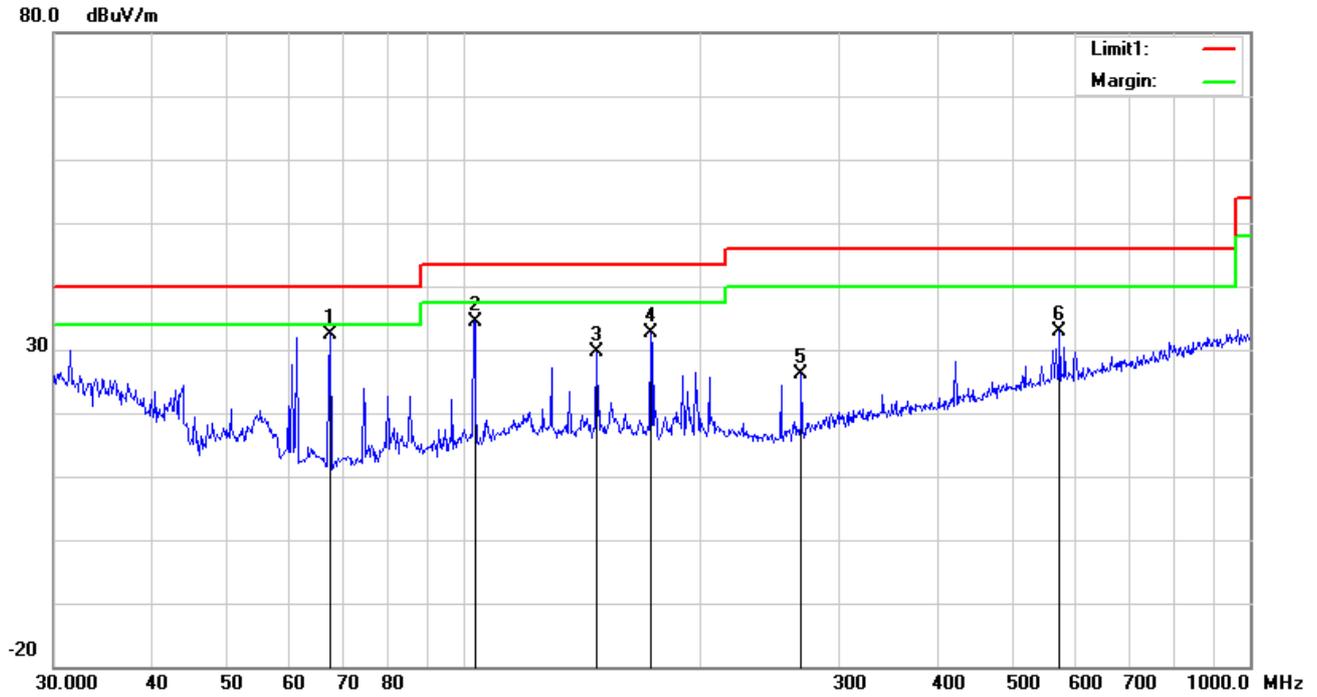


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	H	43.5057	32.98	peak	11.59	22.29	0.76	23.04	40.00	-16.96	100	32
2	H	74.3955	35.98	peak	7.71	22.40	0.96	22.25	40.00	-17.75	100	198
3	H	180.6488	36.16	peak	11.04	22.25	1.37	26.32	43.50	-17.18	100	322
4	H	260.1444	39.20	peak	11.85	22.29	1.72	30.48	46.00	-15.52	100	170
5	H	348.0274	40.13	peak	14.61	22.16	2.03	34.61	46.00	-11.39	100	88
6	H	362.9845	36.62	peak	14.92	22.11	2.03	31.46	46.00	-14.54	100	249

30MHz -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	67.4382	46.06	peak	7.67	22.39	0.93	32.27	40.00	-7.73	100	97
2	V	103.0800	44.66	peak	10.94	22.33	1.14	34.41	43.50	-9.09	100	253
3	V	147.4036	38.08	peak	12.60	22.36	1.32	29.64	43.50	-13.86	200	150
4	V	172.5988	41.90	peak	11.59	22.26	1.36	32.59	43.50	-10.91	100	45
5	V	268.4853	34.39	peak	12.21	22.29	1.73	26.04	46.00	-19.96	100	354
6	V	572.6144	33.20	peak	18.72	21.64	2.48	32.76	46.00	-13.24	100	235

Above 1GHz

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

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4804	39.65	AV	V	33.67	6.86	32.66	47.52	54	-6.48
4804	39.59	AV	H	33.67	6.86	32.66	47.46	54	-6.54
4804	48.47	PK	V	33.67	6.86	32.66	56.34	74	-17.66
4804	46.27	PK	H	33.67	6.86	32.66	54.14	74	-19.86
17807	23.76	AV	V	45.03	11.21	32.38	47.62	54	-6.38
17807	24.68	AV	H	45.03	11.21	32.38	48.54	54	-5.46
17807	40.07	PK	V	45.03	11.21	32.38	63.93	74	-10.07
17807	41.75	PK	H	45.03	11.21	32.38	65.61	74	-8.39

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

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4882	39.61	AV	V	33.71	6.95	32.74	47.53	54	-6.47
4882	38.31	AV	H	33.71	6.95	32.74	46.23	54	-7.77
4882	48.73	PK	V	33.71	6.95	32.74	56.65	74	-17.35
4882	47.27	PK	H	33.71	6.95	32.74	55.19	74	-18.81
17810	24.48	AV	V	45.15	11.18	32.41	48.4	54	-5.6
17810	23.53	AV	H	45.15	11.18	32.41	47.45	54	-6.55
17810	41.51	PK	V	45.15	11.18	32.41	65.43	74	-8.57
17810	41.76	PK	H	45.15	11.18	32.41	65.68	74	-8.32

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	37.31	AV	V	33.9	6.76	32.74	45.23	54	-8.77
4960	37.98	AV	H	33.9	6.76	32.74	45.9	54	-8.1
4960	47.68	PK	V	33.9	6.76	32.74	55.6	74	-18.4
4960	46.87	PK	H	33.9	6.76	32.74	54.79	74	-19.21
17827	23.49	AV	V	45.22	11.35	32.38	47.68	54	-6.32
17827	24.95	AV	H	45.22	11.35	32.38	49.14	54	-4.86
17827	42.74	PK	V	45.22	11.35	32.38	66.93	74	-7.07
17827	40.72	PK	H	45.22	11.35	32.38	64.91	74	-9.09

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"/>
Active Antenna (9kHz-30MHz)	AL-130	121031	10/13/2016	10/12/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>

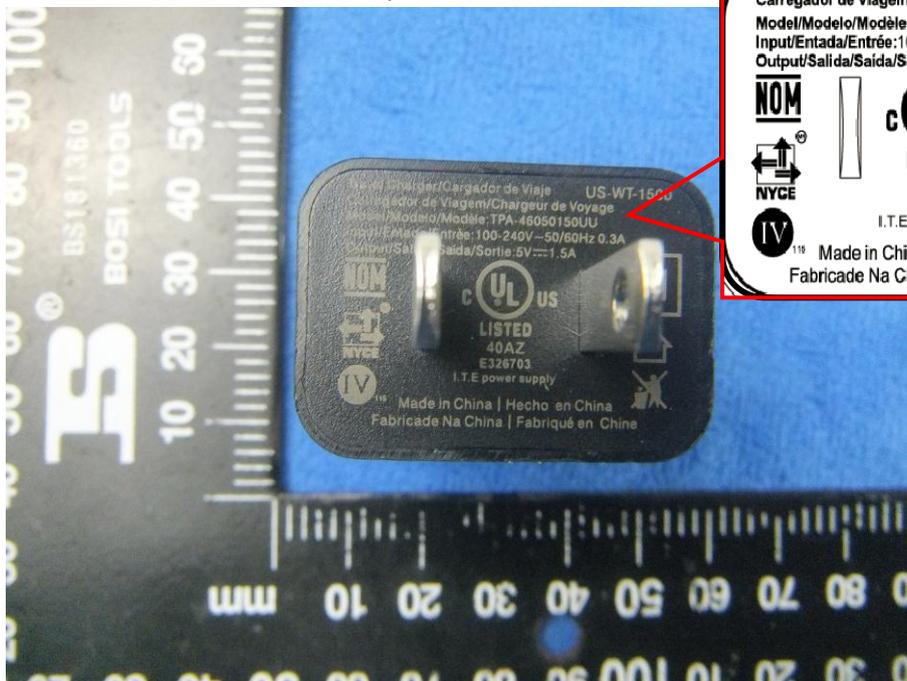
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Front View



Travel Charger/Cargador de Viaje		US-WT-1500	
Carregador de Viagem/Chargeur de Voyage			
Model/Modelo/Modèle: TPA-46050200UU			
Input/Entrada/Entrée: 100-240V~50/60Hz 0.3A			
Output/Salida/Saída/Sortie: 5V=1.5A			
NOM	UL	US	
NYCE	LISTED	40AZ	
I.V.	E326703		
I.T.E power supply			
119 Made in China Hecho en China			
Fabricade Na China Fabriqué en Chine			

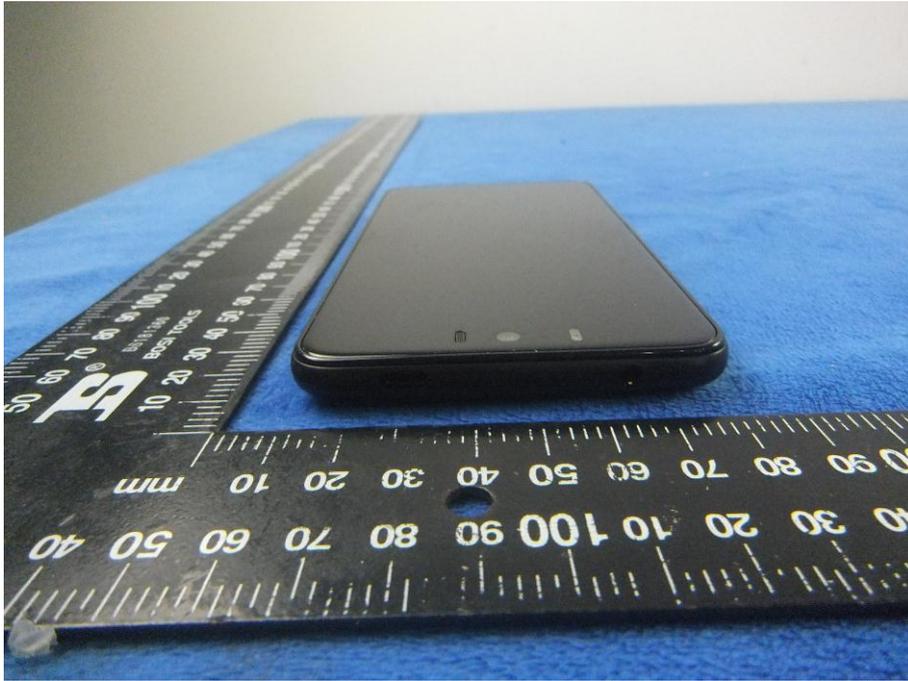
EUT - Front View



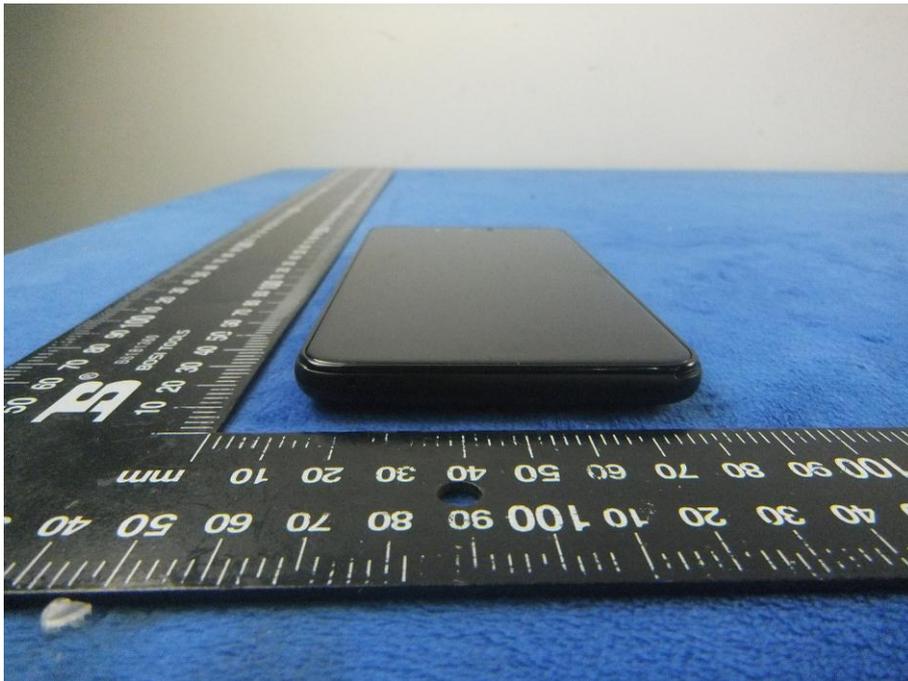
EUT - Rear View



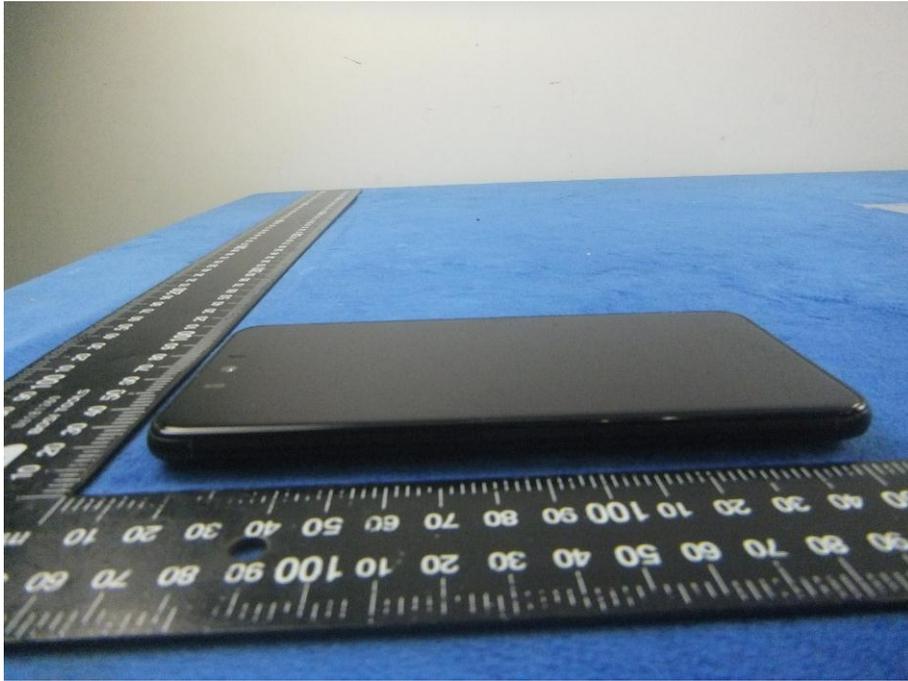
EUT - Top View



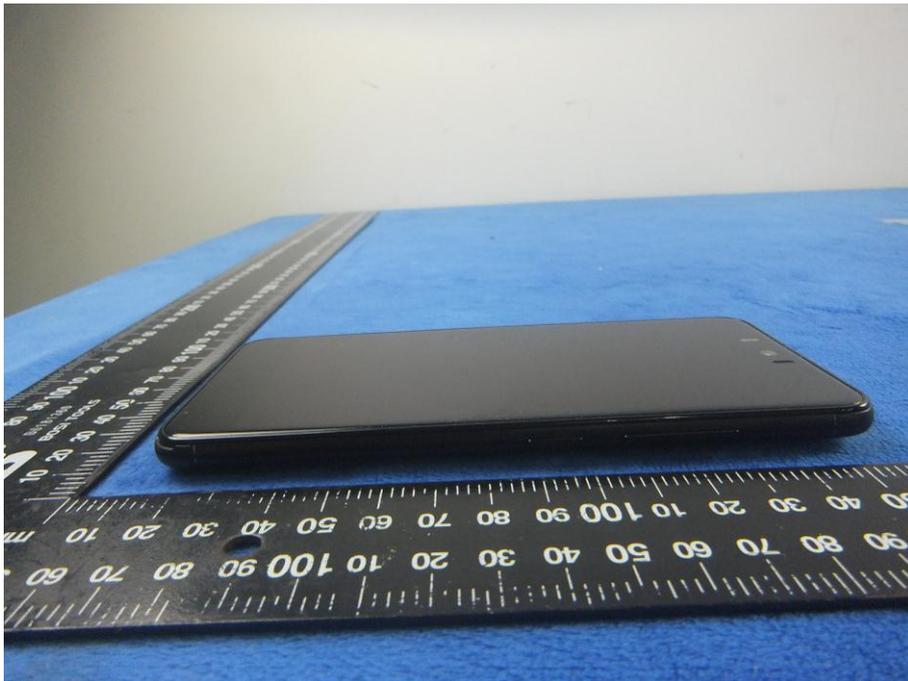
EUT - Bottom View



EUT - Left View



EUT - Right View



Annex B.ii. Photograph: EUT Internal Photo

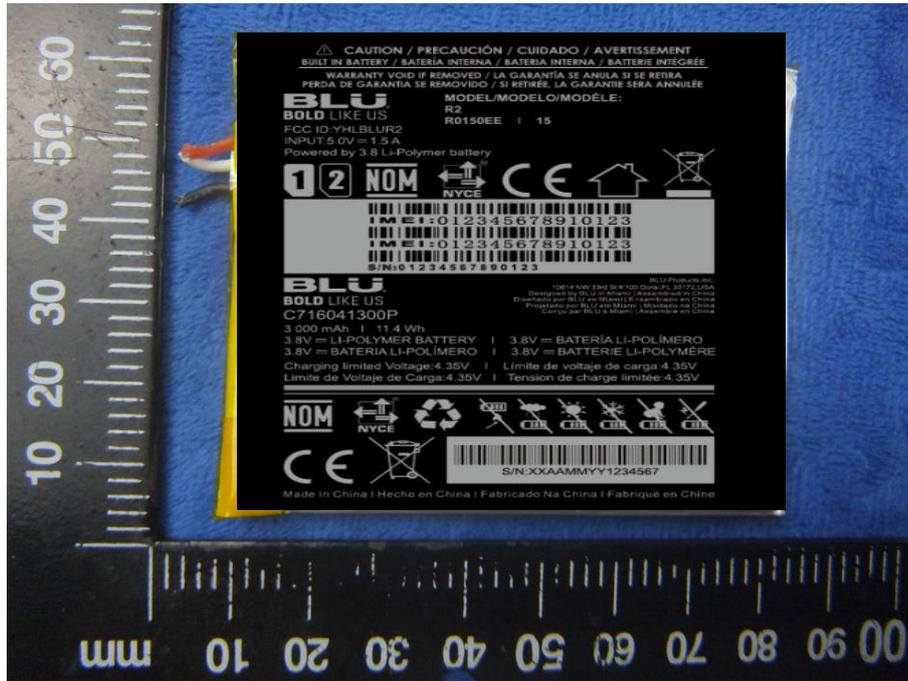
Cover Off - Top View 1



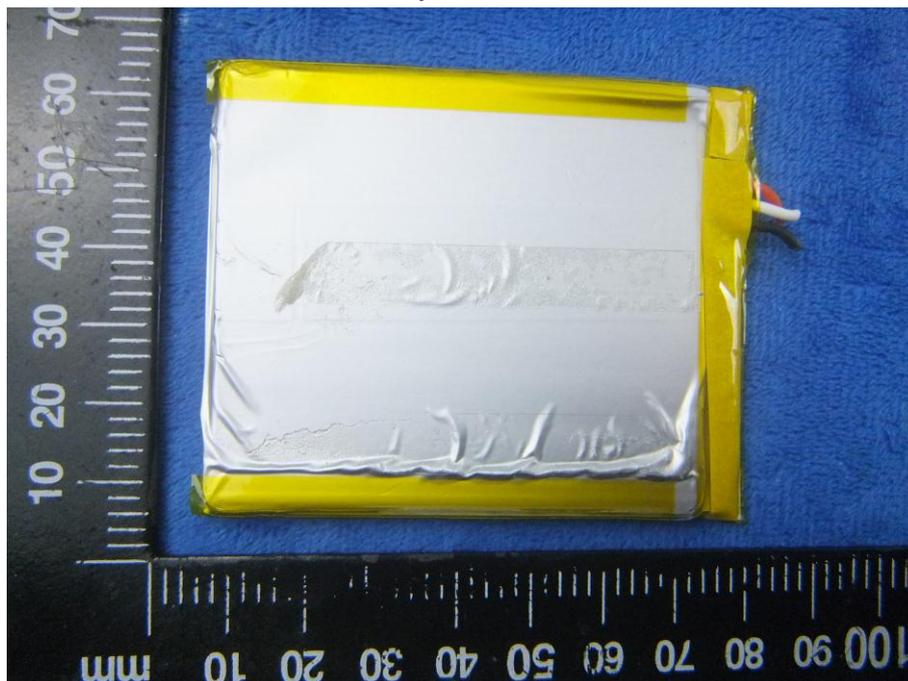
Cover Off - Top View 2



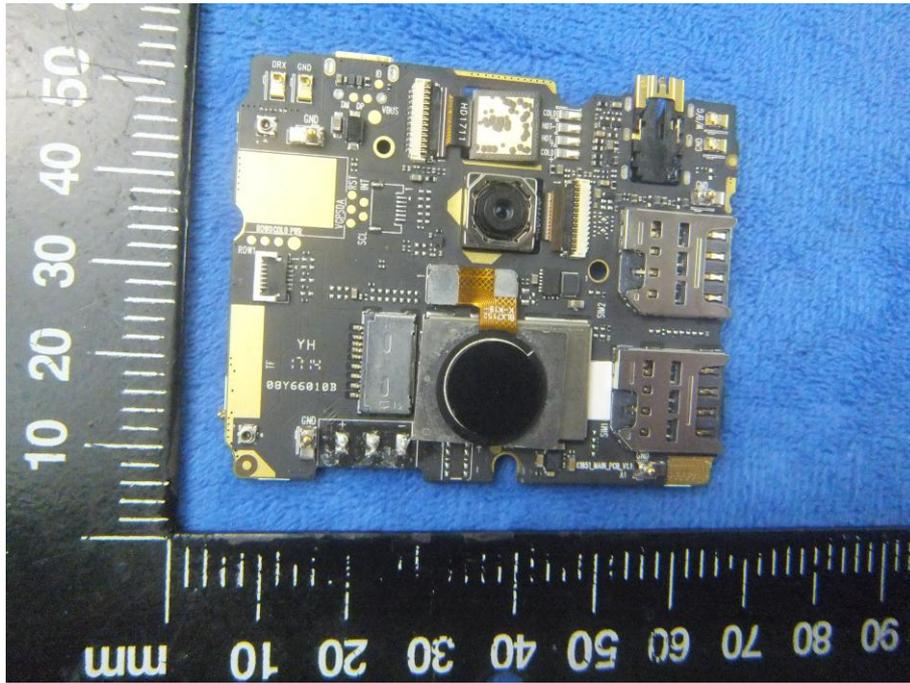
Battery - Front View



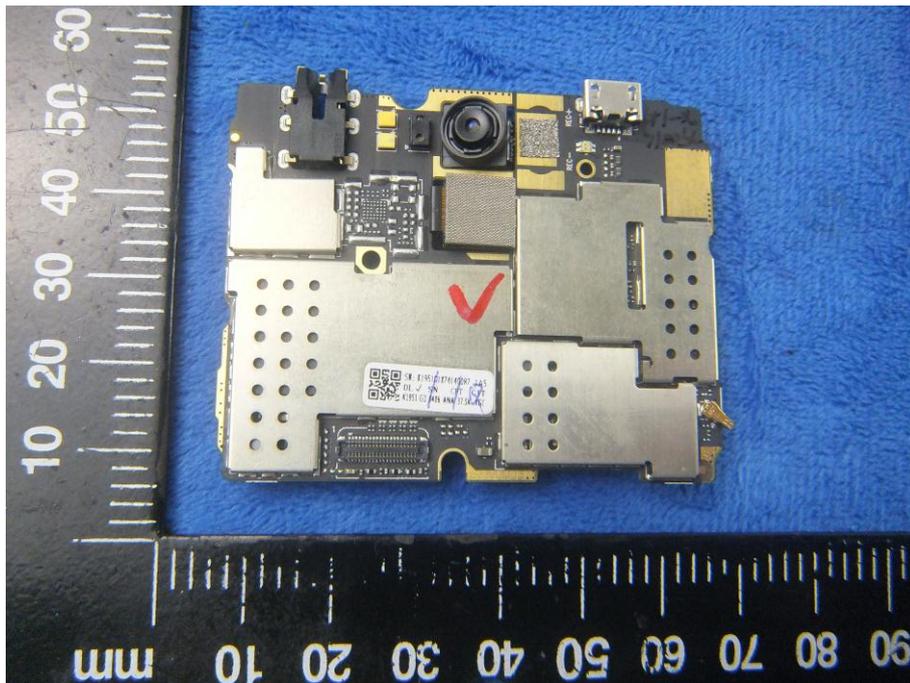
Battery - Rear View



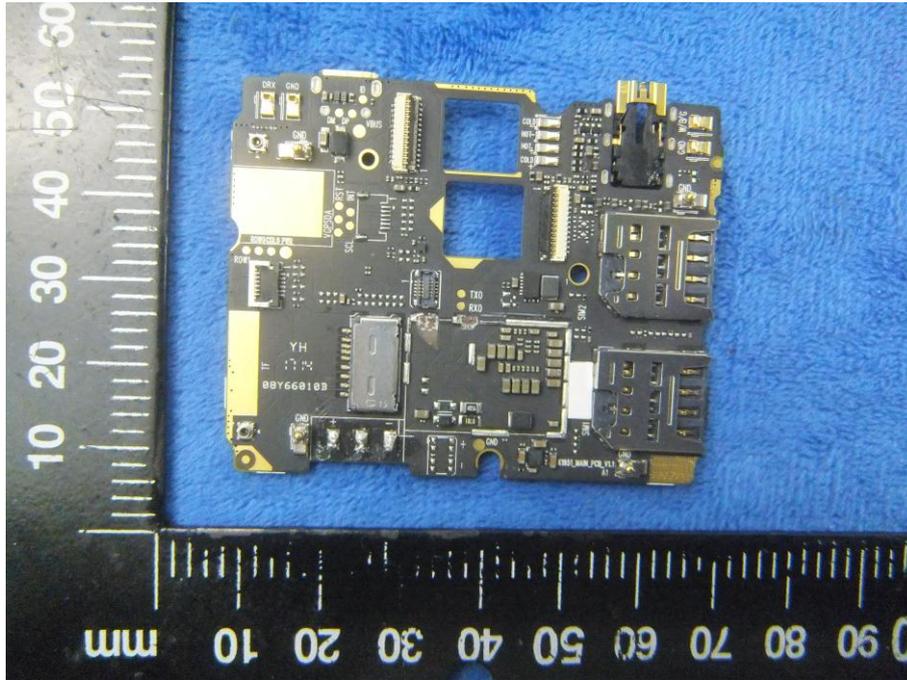
Mainboard with Shielding - Front View



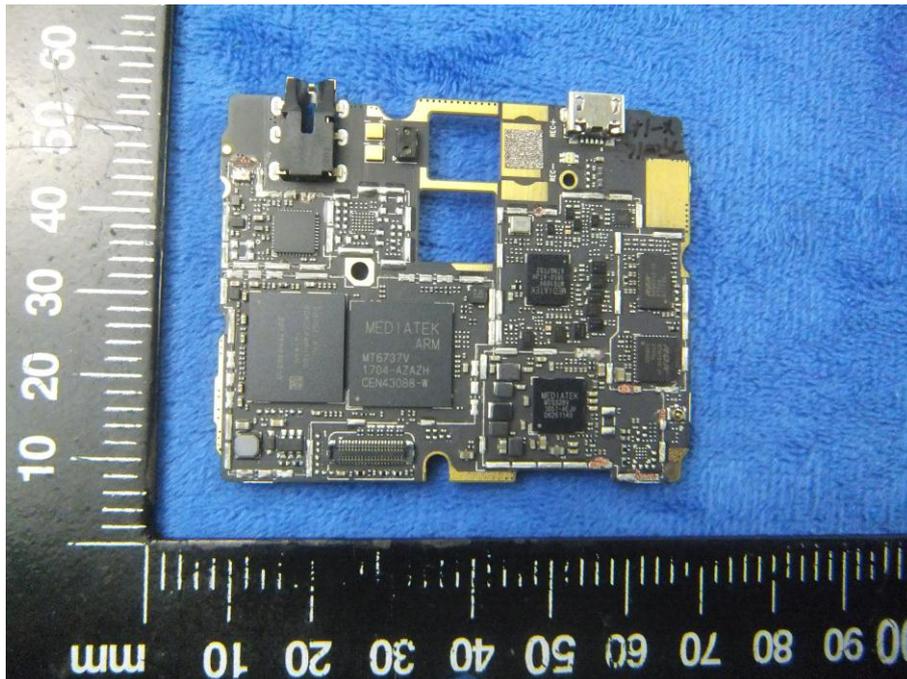
Mainboard with Shielding - Rear View



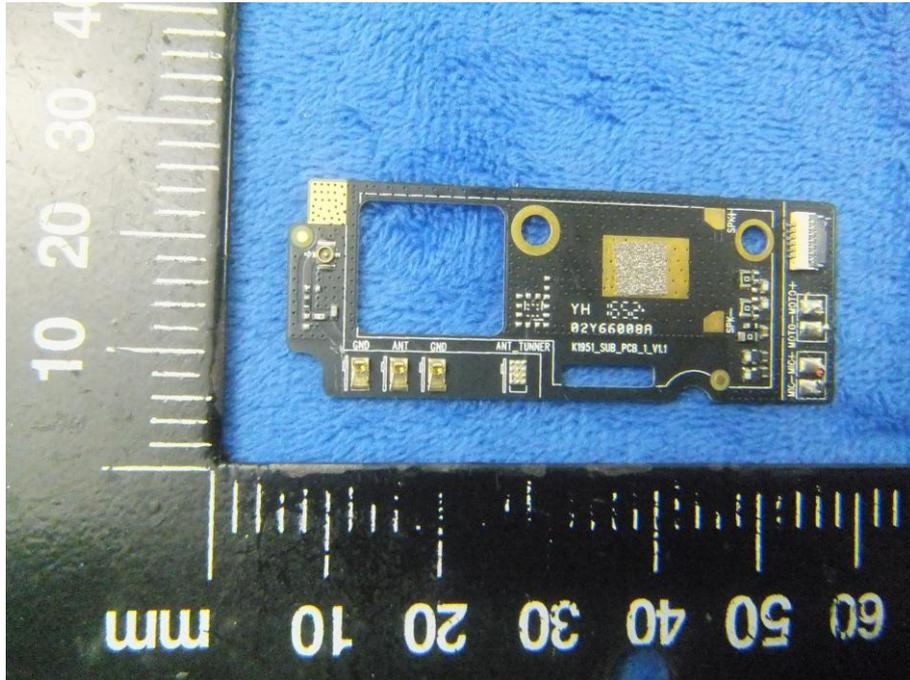
Mainboard without Shielding - Front View



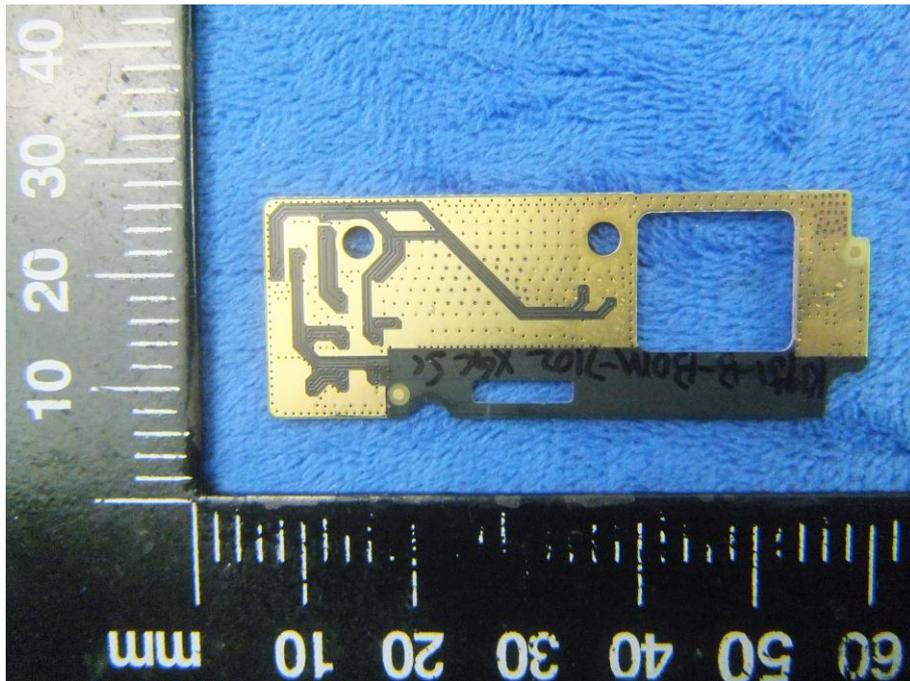
Mainboard without Shielding - Rear View



Small Mainboard - Front View



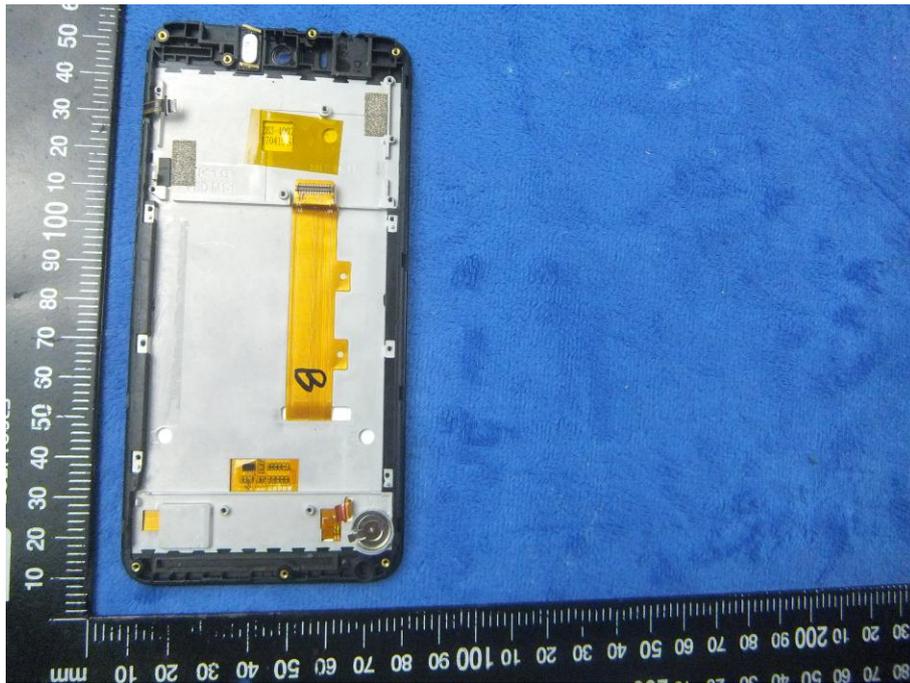
Small Mainboard - Rear View



LCD – Front View



LCD – Rear View



GSM/PCS/UMTS - Antenna View



BT/WIFI - Antenna View



LTE - Antenna View



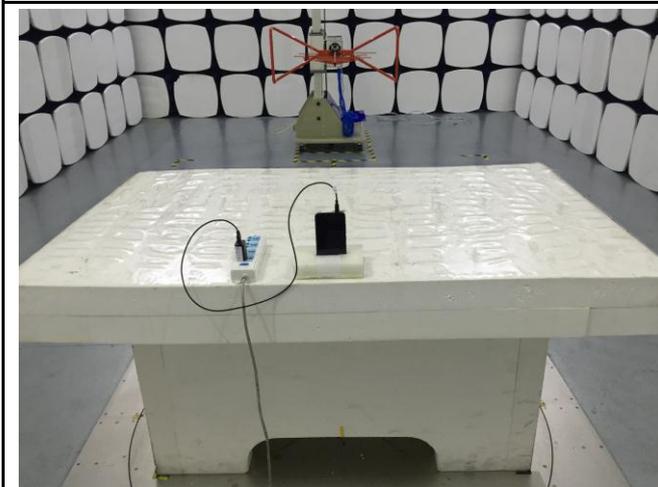
Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

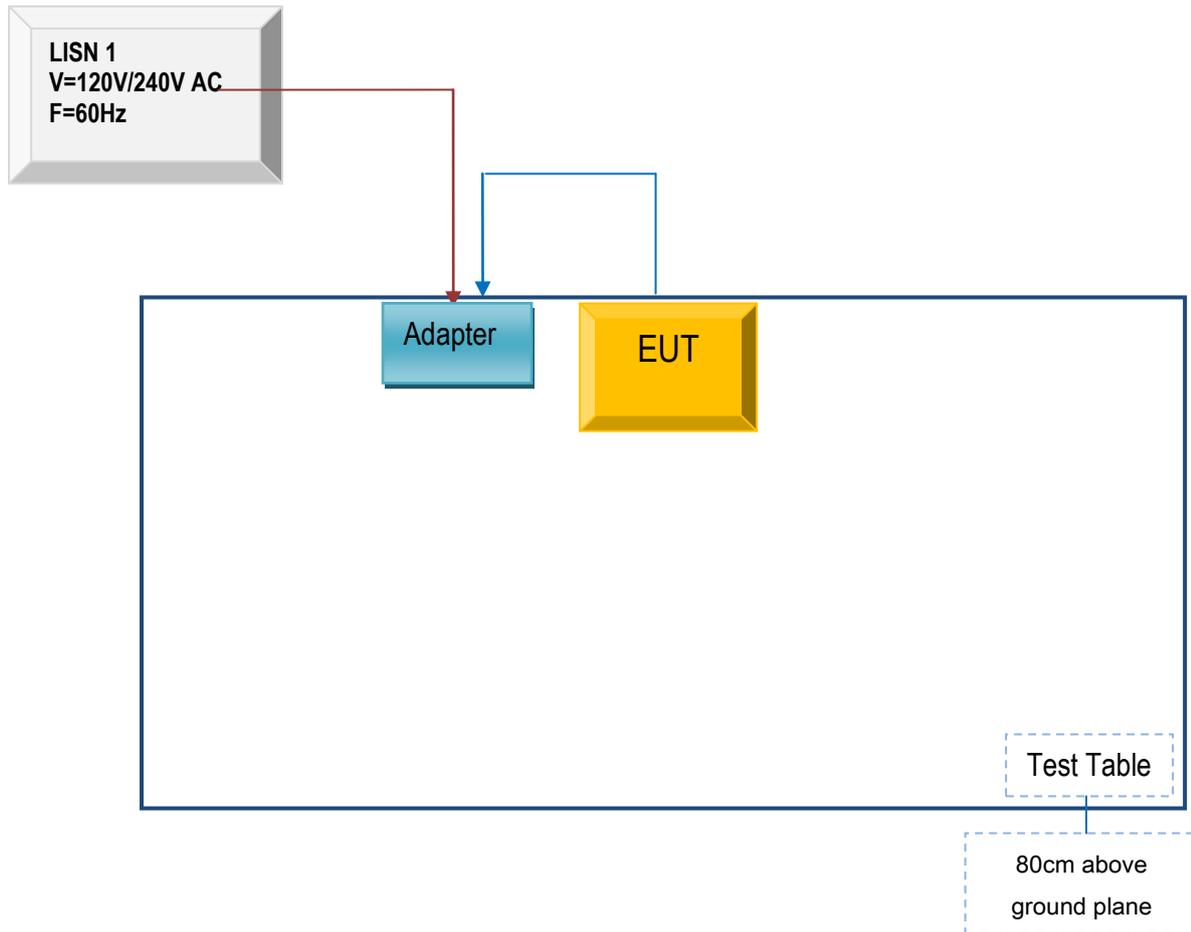


Radiated Spurious Emissions Test Setup Above
1GHz

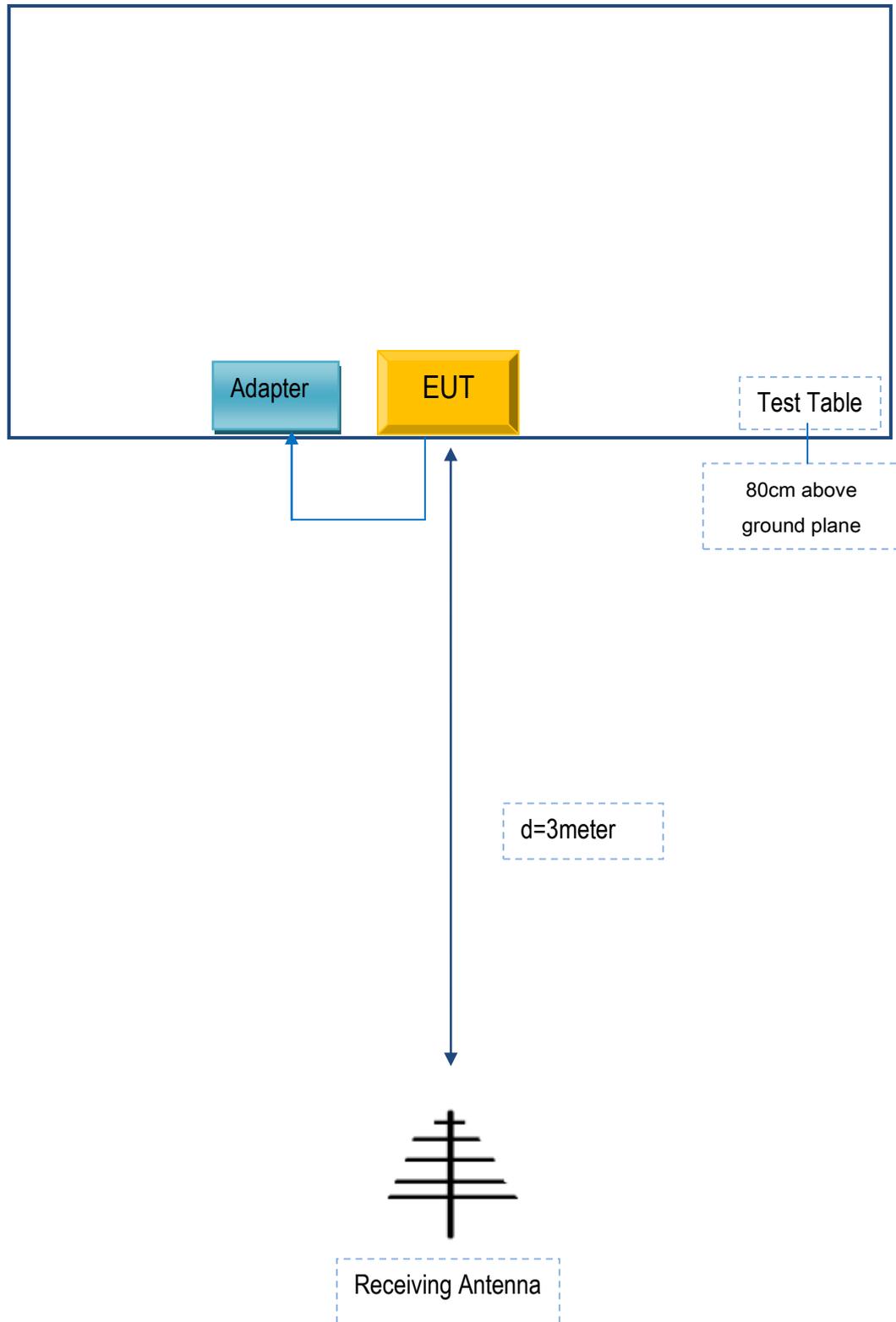
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

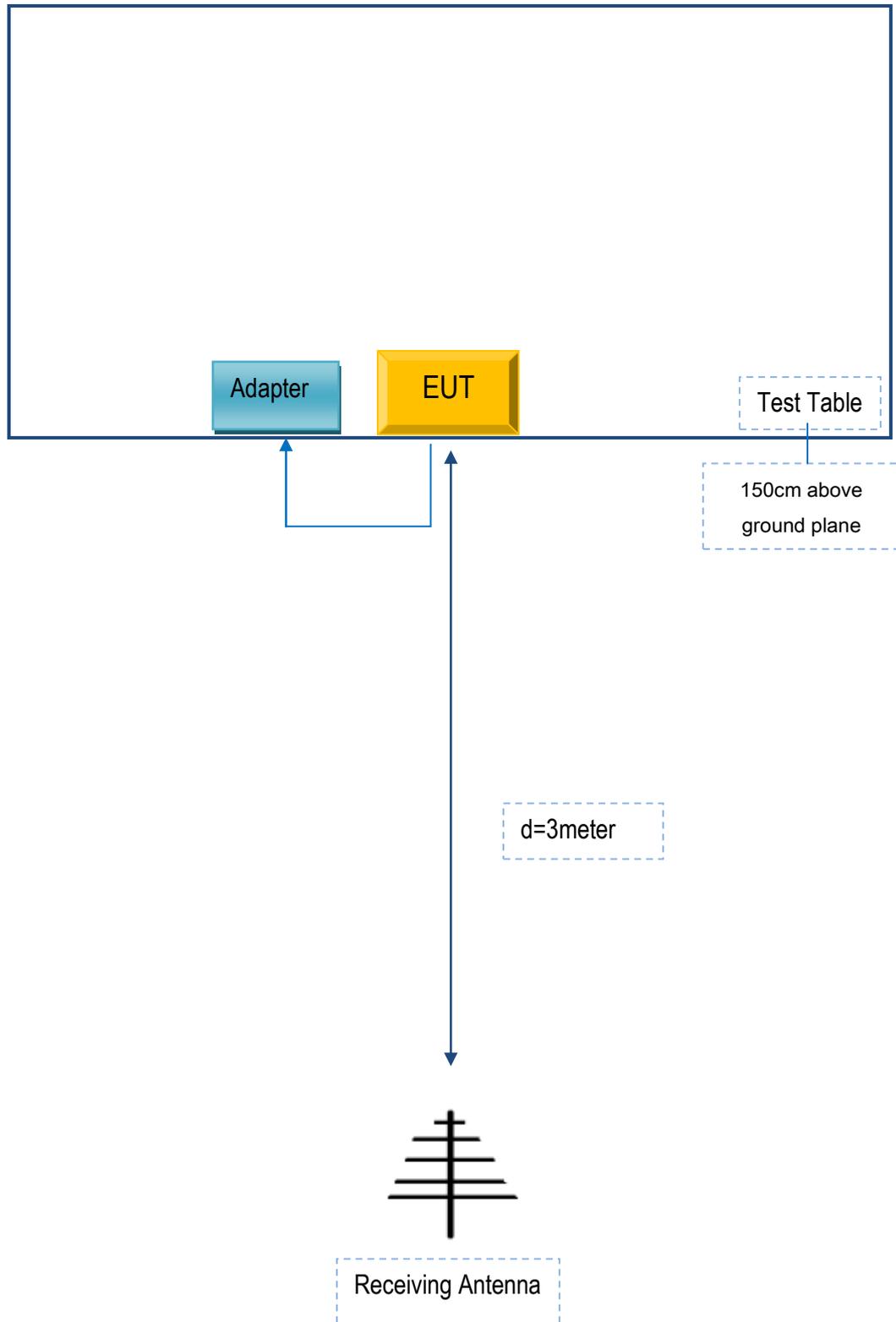
Block Configuration Diagram for AC Line Conducted Emissions



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
BLU Products, Inc.	Adapter	US-WT-1500	ST560

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	ST560

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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