

# RF TEST REPORT



Report No.: 17070226-FCC-R2

Supersede Report No.: N/A

Applicant	TECNO MOBILE LIMITED	
Product Name	Mobile phone	
Model No.	WX4 Pro	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2016, ANSI C63.10: 2013	
Test Date	March 28 to April 17, 2017	
Issue Date	April 17, 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	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

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## Laboratories Introduction

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



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### 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
17070226-FCC-R2	NONE	Original	April 17, 2017

## 2. Customer information

Applicant Name	TECNO MOBILE LIMITED
Applicant Add	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Manufacturer Add	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian District,Shenzhen,Guangdong,China

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software of Radiate d 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:	Mobile phone
Main Model:	WX4 Pro
Serial Model:	N/A
Date EUT received:	March 27, 2017
Test Date(s):	March 28 to April 17, 2017
Equipment Category :	DTS
Antenna Gain:	GSM850: -0.2dBi PCS1900:1.7dBi UMTS-FDD Band V: -0.2dBi UMTS-FDD Band II:1.7dBi LTE Band II:1.7dBi LTE Band IV:1.7dBi LTE Band VII:2.5dBi WIFI:2.0dBi Bluetooth/BLE:2.0dBi GPS: 1.7dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi$ /4DQPSK, 8DPSK BLE: GFSK GPS:BPSK

	<p>GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz</p> <p>PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz</p> <p>UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz</p> <p>UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;</p> <p>RX: 1932.4 ~ 1987.6 MHz</p>
RF Operating Frequency (ies):	<p>LTE Band II TX: 1850.7~ 1909.3 MHz; RX : 1930.7 ~ 1989.3 MHz</p> <p>LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7 ~ 2154.3 MHz</p> <p>LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz</p> <p>WIFI: 802.11b/g/n(20M): 2412-2462 MHz</p> <p>WIFI: 802.11n(40M): 2422-2452 MHz</p> <p>Bluetooth&amp; BLE: 2402-2480 MHz</p> <p>GPS: 1575.42 MHz</p>
Max. Output Power:	<p>802.11b: 12.75dBm</p> <p>802.11g: 12.29dBm</p> <p>802.11n(20M): 11.38dBm</p> <p>802.11n(40M): 11.34dBm</p>
Number of Channels:	<p>GSM 850: 124CH</p> <p>PCS1900: 299CH</p> <p>UMTS-FDD Band V : 102CH</p> <p>UMTS-FDD Band II : 277CH</p> <p>WIFI :802.11b/g/n(20M): 11CH</p> <p>WIFI :802.11n(40M): 7CH</p> <p>Bluetooth: 79CH</p> <p>BLE: 40CH</p> <p>GPS:1CH</p>
Port:	<p>USB Port, Earphone Port</p>
Input Power:	<p>Adapter:</p> <p>Model:A8-501000</p> <p>Input: AC100-240V~50/60Hz,200mA</p> <p>Output: DC 5.0V,1.0A</p> <p>Battery:</p> <p>Model:BL-28BT</p> <p>Spec:3.85V,10.78Wh,2800mAh</p> <p>Limited charge voltage:4.4V</p>

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Trade Name : TECNO

FCC ID: 2ADYY-WX4PRO

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)(2)	DTS (6 dB&20 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions & Unwanted Emissions into Restricted Frequency Bands	Compliance

### Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band-Edge & Unwanted Emissions into Restricted Frequency Bands and Radiated Emissions & Unwanted Emissions into Restricted Frequency Bands	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 Bluetooth/BLE/WIFI/GPS, the gain is 2.0dBi for Bluetooth/BLE and WIFI, 1.7dBi for GPS.

A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is -0.2dBi for GSM850, 1.7dBi for PCS1900, -0.2dBi for UMTS-FDD Band V, 1.7dBi for UMTS-FDD Band II.

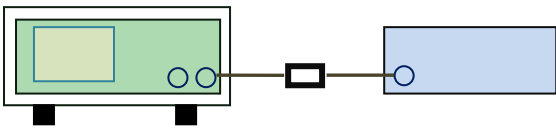
A permanently attached PIFA antenna for LTE Band II/IV/VII, the gain is 1.7dBi for LTE Band II, the gain is 1.7dBi for LTE Band IV, the gain is 2.5dBi for LTE Band VII.

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

**Result:** Compliance.

## 6.2 DTS (6 dB&20 dB) Channel Bandwidth

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1007mbar
Test date :	April 10, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable
§ 15.247(a)(2) RSS Gen(4.6.1)	a)	6dB BW ≥ 500kHz; 20dB BW ≥ 500kHz;	<input checked="" type="checkbox"/>
	b)	99% BW: For FCC reference only; required by IC.	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>		
Test Procedure	<p>558074 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth</p> <p><u>6dB bandwidth</u></p> <ol style="list-style-type: none"> <li>Set RBW = 100 kHz.</li> <li>Set the video bandwidth (VBW) ≥ 3 × RBW.</li> <li>Detector = Peak.</li> <li>Trace mode = max hold.</li> <li>Sweep = auto couple.</li> <li>Allow the trace to stabilize.</li> <li>Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</li> </ol> <p><u>20dB bandwidth</u></p> <p>C63.10 Occupied Bandwidth (OBW=20dB bandwidth)</p> <ol style="list-style-type: none"> <li>Set RBW = 1%-5% OBW.</li> <li>Set the video bandwidth (VBW) ≥ 3 x RBW.</li> <li>Set the span range between 2 times and 5 times of the OBW.</li> <li>Sweep time=Auto, Detector=PK, Trace=Max hold.</li> <li>Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-</li> </ol>		

	case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the 20 dB levels with respect to the reference level.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

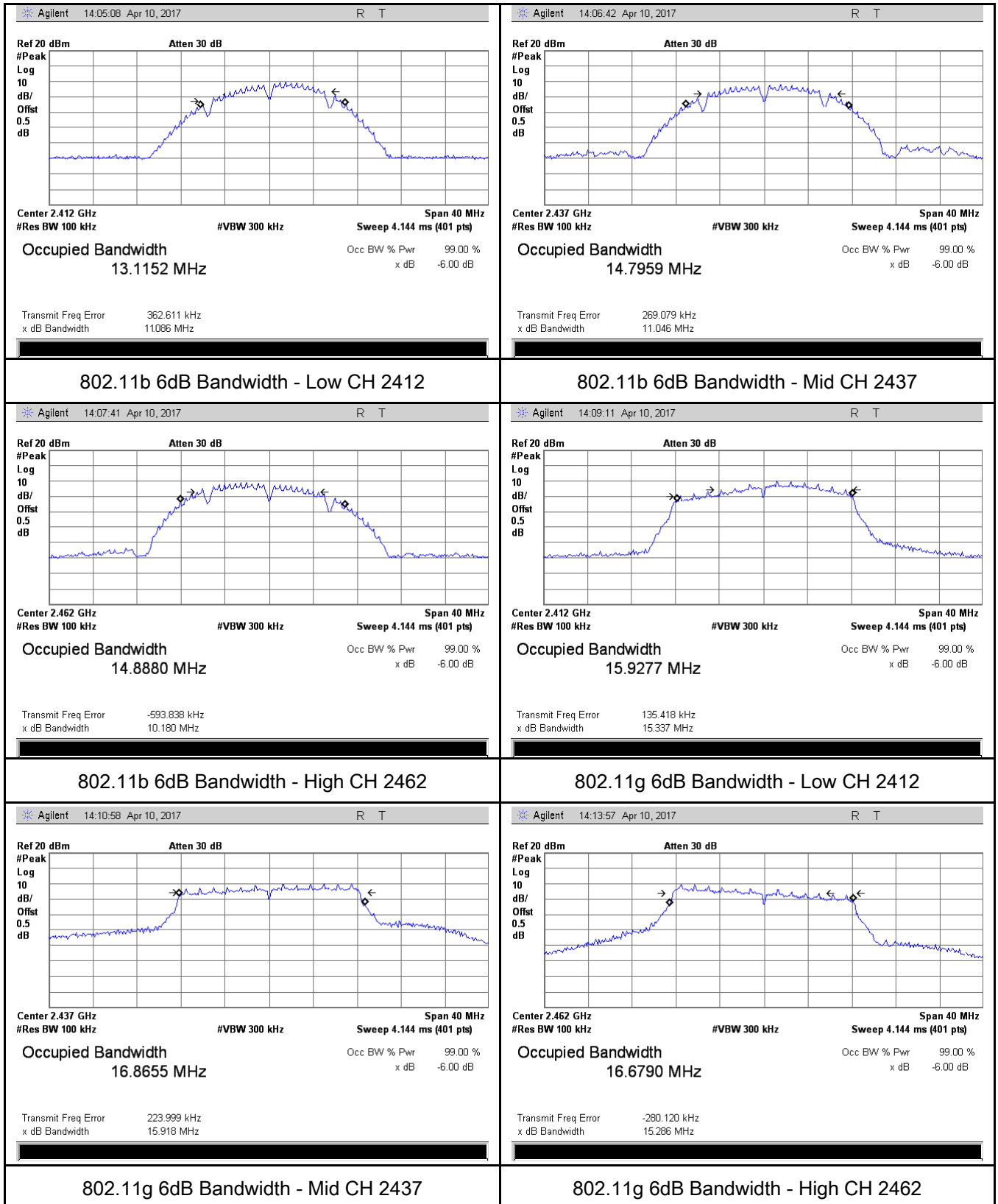
Test Plot ☒ Yes (See below) ☐ N/A

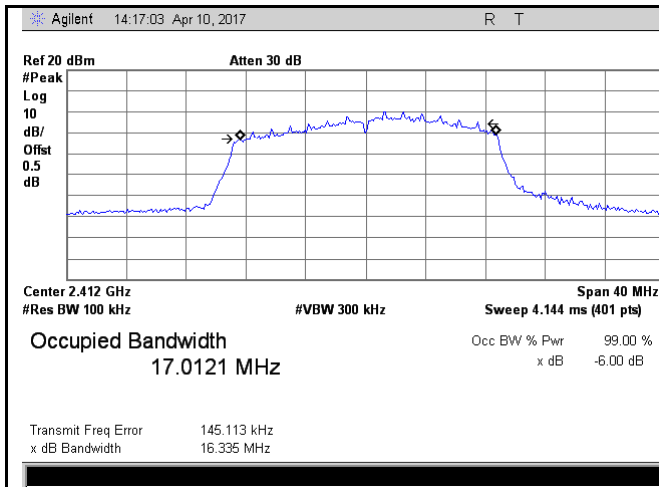
### Measurement result

Test mode	CH	Freq (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	11.086	13.024	$\geq 0.5$
	Mid	2437	11.046	14.806	$\geq 0.5$
	High	2462	10.180	14.752	$\geq 0.5$
802.11g	Low	2412	15.337	18.216	$\geq 0.5$
	Mid	2437	15.918	19.111	$\geq 0.5$
	High	2462	15.286	19.266	$\geq 0.5$
802.11n (20M)	Low	2412	16.335	18.721	$\geq 0.5$
	Mid	2437	16.516	19.747	$\geq 0.5$
	High	2462	16.907	19.423	$\geq 0.5$
802.11n (40M)	Low	2422	35.408	38.422	$\geq 0.5$
	Mid	2437	35.602	39.764	$\geq 0.5$
	High	2452	35.288	38.822	$\geq 0.5$

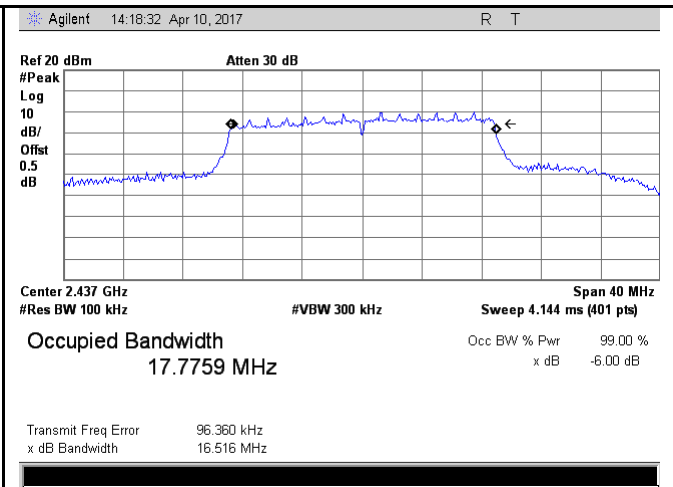
## Test Plots

### 6dB Bandwidth measurement result

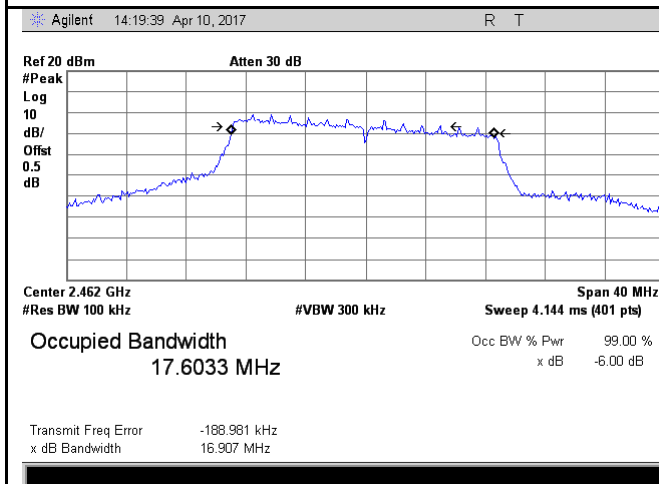




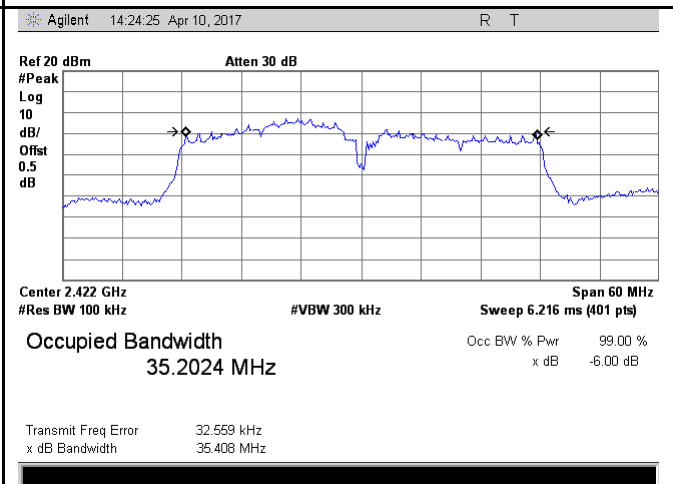
802.11n20 6dB Bandwidth - Low CH 2412



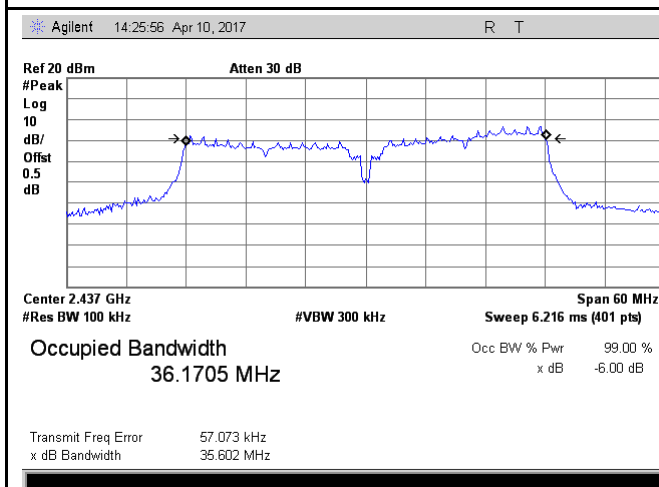
802.11n20 6dB Bandwidth - Mid CH 2437



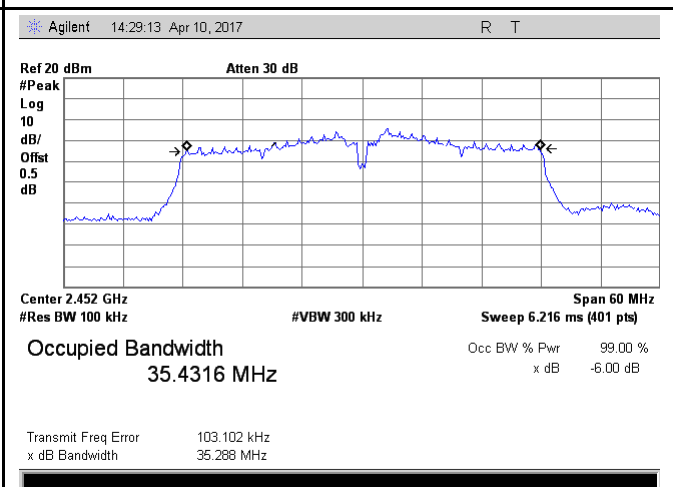
802.11n20 6dB Bandwidth - High CH 2462



802.11n40 6dB Bandwidth - Low CH 2422

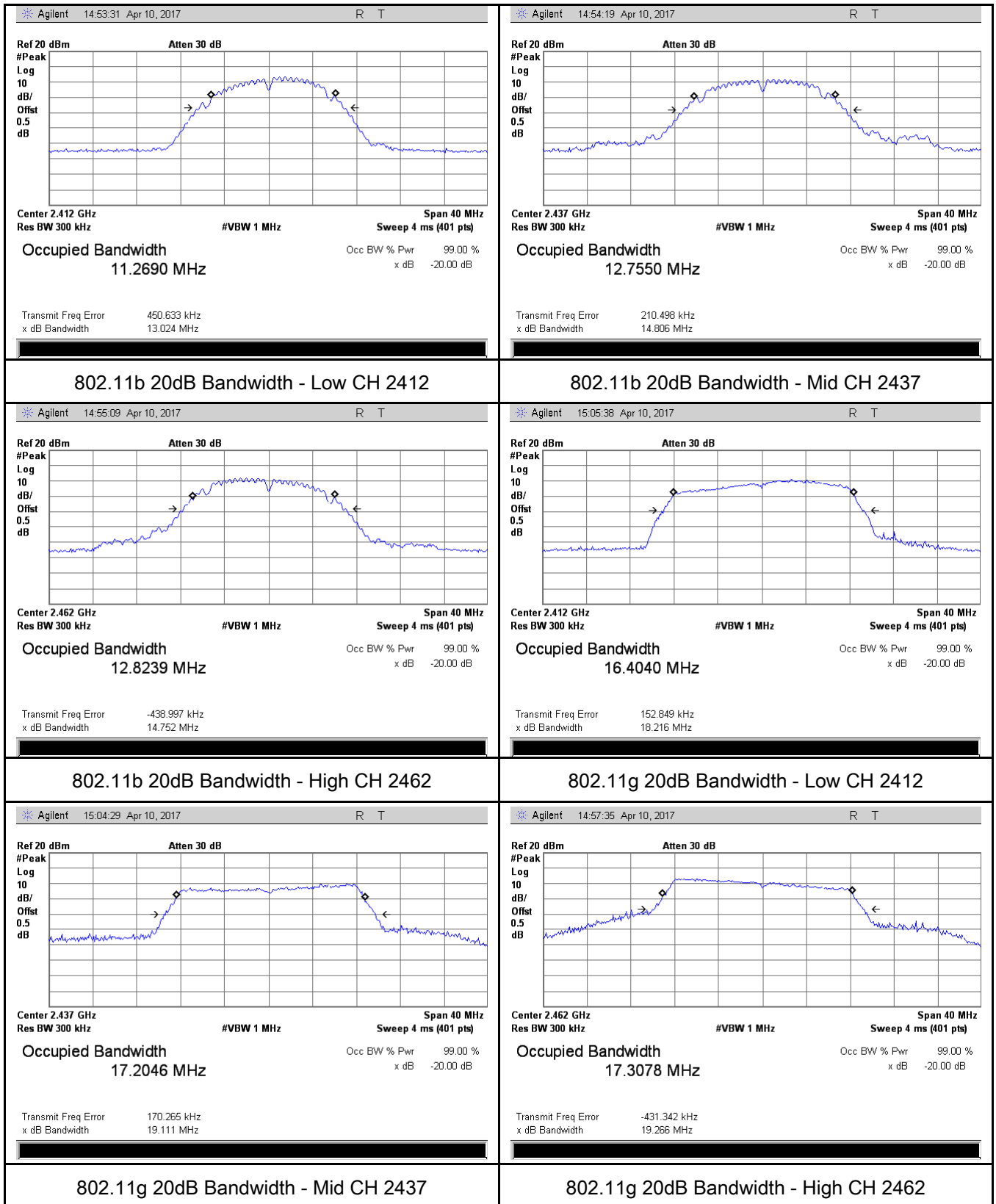


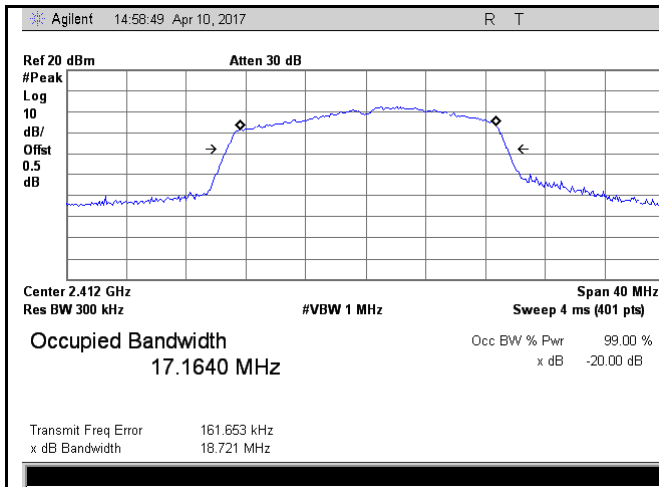
802.11n40 6dB Bandwidth - Mid CH 2437



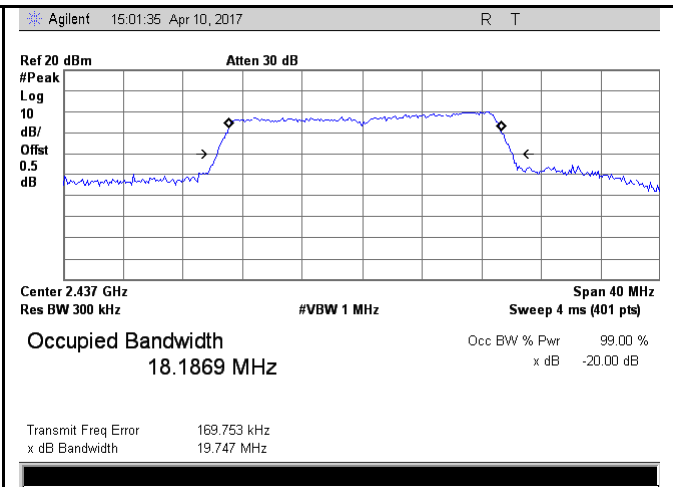
802.11n40 6dB Bandwidth - High CH 2452

## 20 dB Bandwidth measurement result

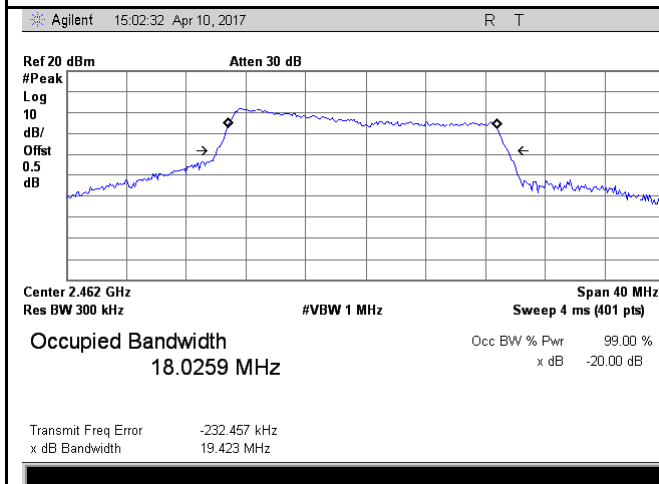




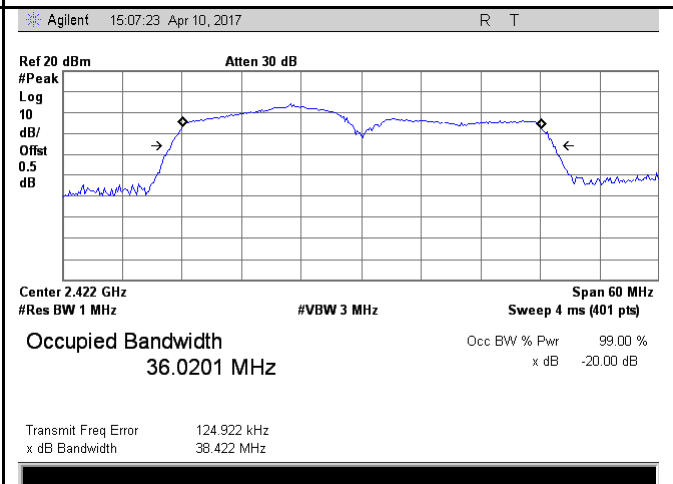
802.11n20 20dB Bandwidth - Low CH 2412



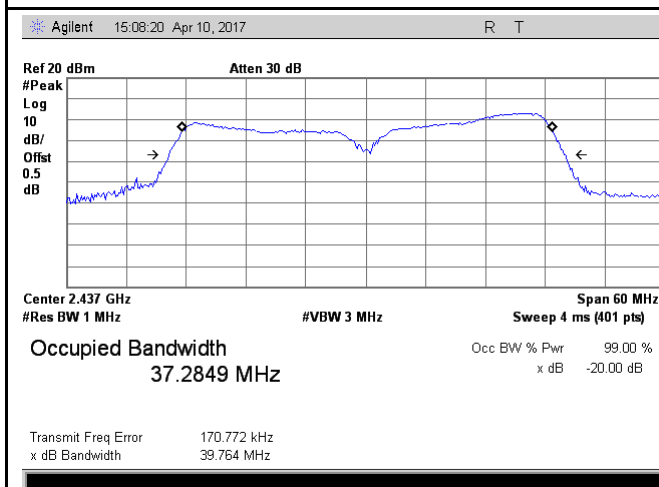
802.11n20 20dB Bandwidth - Mid CH 2437



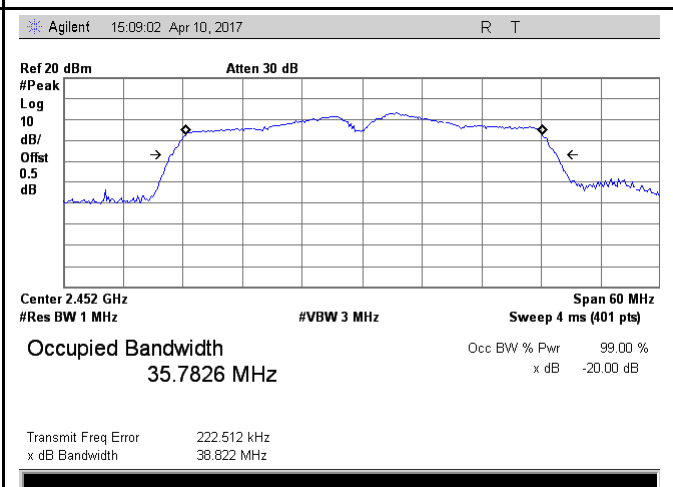
802.11n20 20dB Bandwidth - High CH 2462



802.11n40 20dB Bandwidth - Low CH 2422



802.11n40 20dB Bandwidth - Mid CH 2437



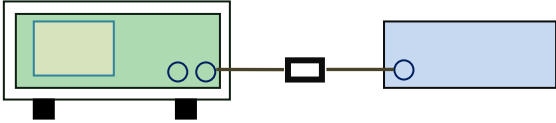
802.11n40 20dB Bandwidth - High CH 2452



### 6.3 Maximum Output Power

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1007mbar
Test date :	April 10, 2017
Tested By :	Loren Luo

#### Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (3),RSS210 (A8.4)	a)	FHSS in 2400-2483.5MHz with $\geq 75$ channels: $\leq 1$ Watt	<input type="checkbox"/>
	b)	FHSS in 5725-5850MHz: $\leq 1$ Watt	<input type="checkbox"/>
	c)	For all other FHSS in the 2400-2483.5MHz band: $\leq 0.125$ Watt.	<input type="checkbox"/>
	d)	FHSS in 902-928MHz with $\geq 50$ channels: $\leq 1$ Watt	<input type="checkbox"/>
	e)	FHSS in 902-928MHz with $\geq 25$ & $<50$ channels: $\leq 0.25$ Watt	<input type="checkbox"/>
	f)	DTS in 902-928MHz, 2400-2483.5MHz: $\leq 1$ Watt	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>		
Test Procedure	<p>558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method Maximum output power measurement procedure</p> <ul style="list-style-type: none"> <li>- a) Set span to at least 1.5 times the OBW.</li> <li>- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.</li> <li>- c) Set VBW <math>\geq 3 \times</math> RBW.</li> <li>- d) Number of points in sweep <math>\geq 2 \times</math> span / RBW. (This gives bin-to-bin spacing <math>\leq</math> RBW/2, so that narrowband signals are not lost between frequency bins.)</li> <li>- e) Sweep time = auto.</li> <li>- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.</li> <li>- g) If transmit duty cycle <math>&lt; 98\%</math>, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum</li> </ul>		

	<p>power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle <math>\geq 98\%</math>, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to " free run" .</p> <ul style="list-style-type: none"> <li>- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.</li> <li>- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument' s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.</li> </ul>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

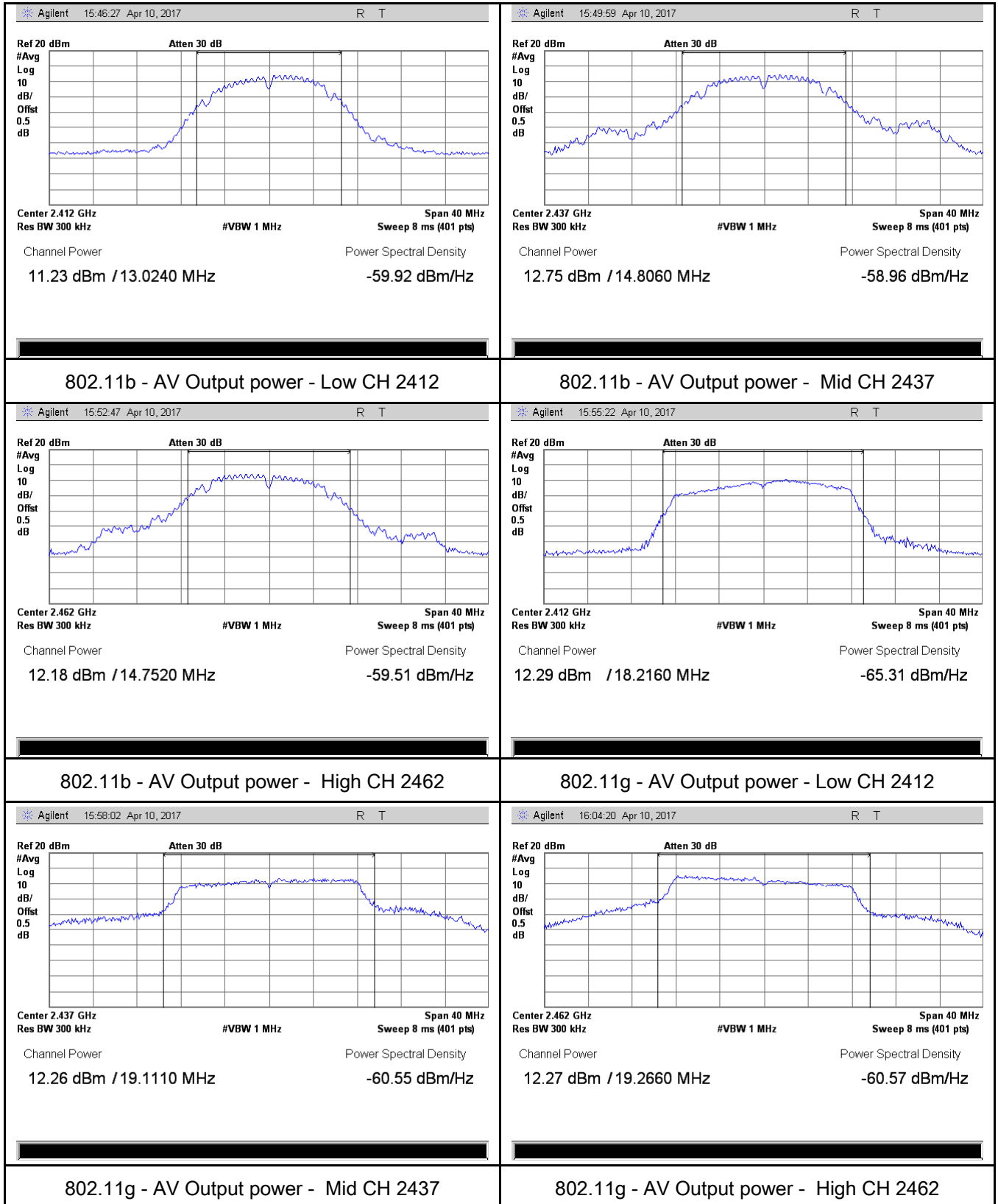
Test Plot ☒ Yes (See below) ☐ N/A

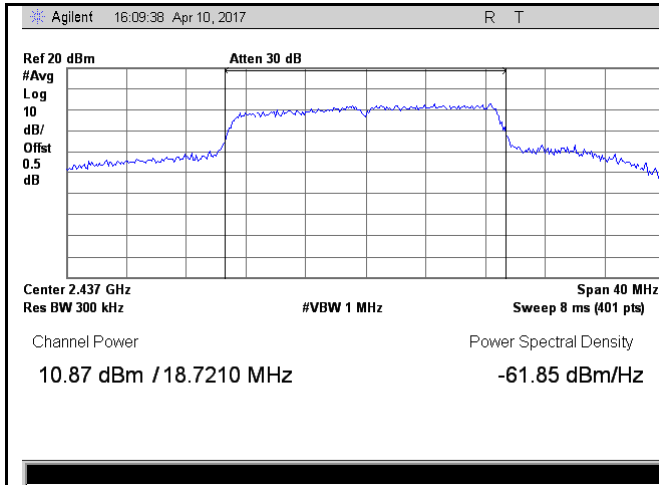
#### Output Power measurement result

Type	Test mode	CH	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output power	802.11b	Low	2412	11.23	30	Pass
		Mid	2437	<b>12.75</b>	30	Pass
		High	2462	12.18	30	Pass
	802.11g	Low	2412	<b>12.29</b>	30	Pass
		Mid	2437	12.26	30	Pass
		High	2462	12.27	30	Pass
	802.11n (20M)	Low	2412	10.87	30	Pass
		Mid	2437	<b>11.38</b>	30	Pass
		High	2462	11.05	30	Pass
	802.11n (40M)	Low	2422	11.25	30	Pass
		Mid	2437	<b>11.34</b>	30	Pass
		High	2452	11.13	30	Pass

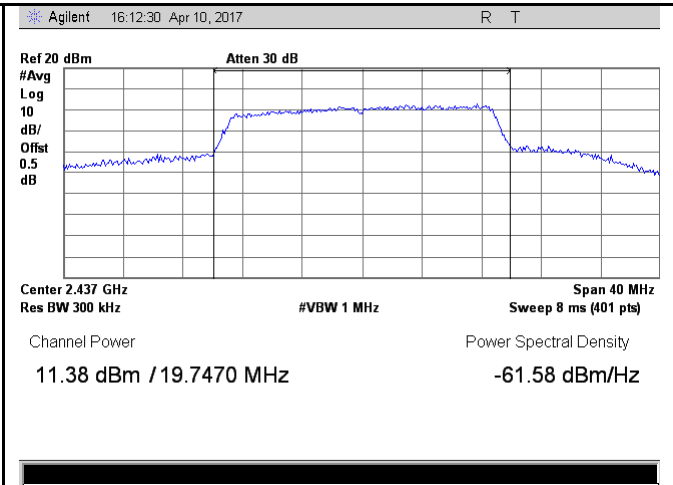
## Test Plots

### The Average Power

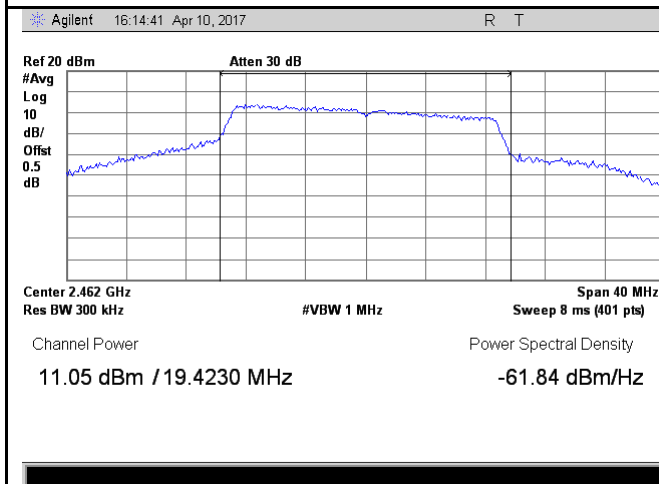




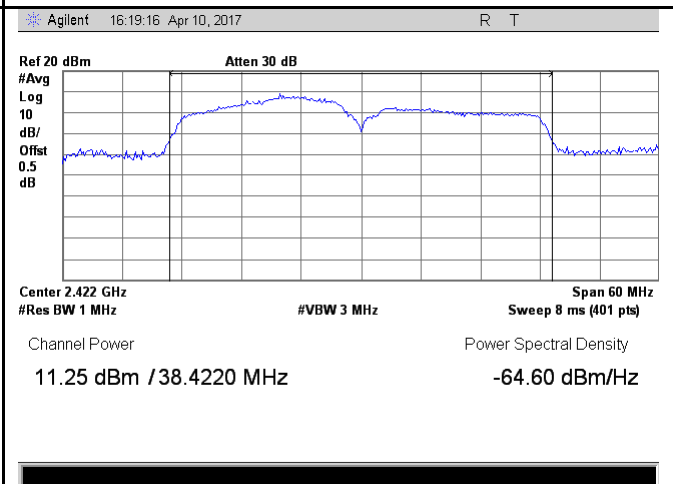
802.11n20 - AV Output power - Low CH 2412



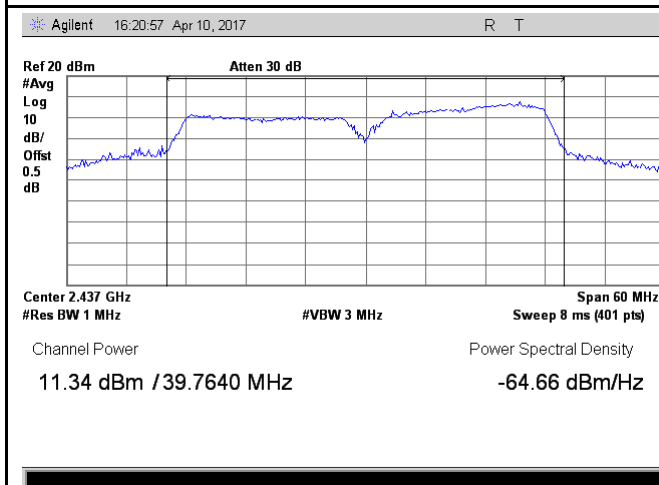
802.11n20 - AV Output power - Mid CH 2437



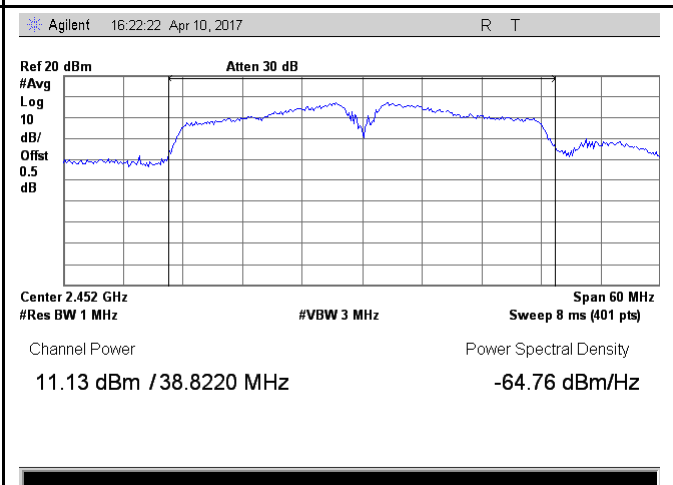
802.11n20 - AV Output power - High CH 2462



802.11n40 - AV Output power - Low CH 2422



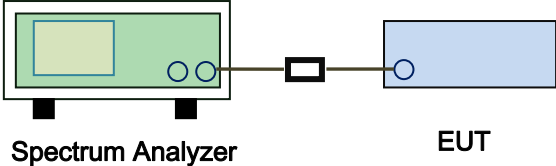
802.11n40 - AV Output power - Mid CH 2437



802.11n40 - AV Output power - High CH 2452

## 6.4 Power Spectral Density

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1007mbar
Test date :	April 10, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable
§15.247(e)	a)	The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>		
Test Procedure	<p>558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method power spectral density measurement procedure</p> <ul style="list-style-type: none"> <li>- a) Set analyzer center frequency to DTS channel center frequency.</li> <li>- b) Set the span to 1.5 times the DTS bandwidth.</li> <li>- c) Set the RBW to: <math>3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}</math>.</li> <li>- d) Set the VBW <math>\geq 3 \times \text{RBW}</math>.</li> <li>- e) Detector = peak.</li> <li>- f) Sweep time = auto couple.</li> <li>- g) Trace mode = max hold.</li> <li>- h) Allow trace to fully stabilize.</li> <li>- i) Use the peak marker function to determine the maximum amplitude level within the RBW.</li> <li>- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.</li> </ul>		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

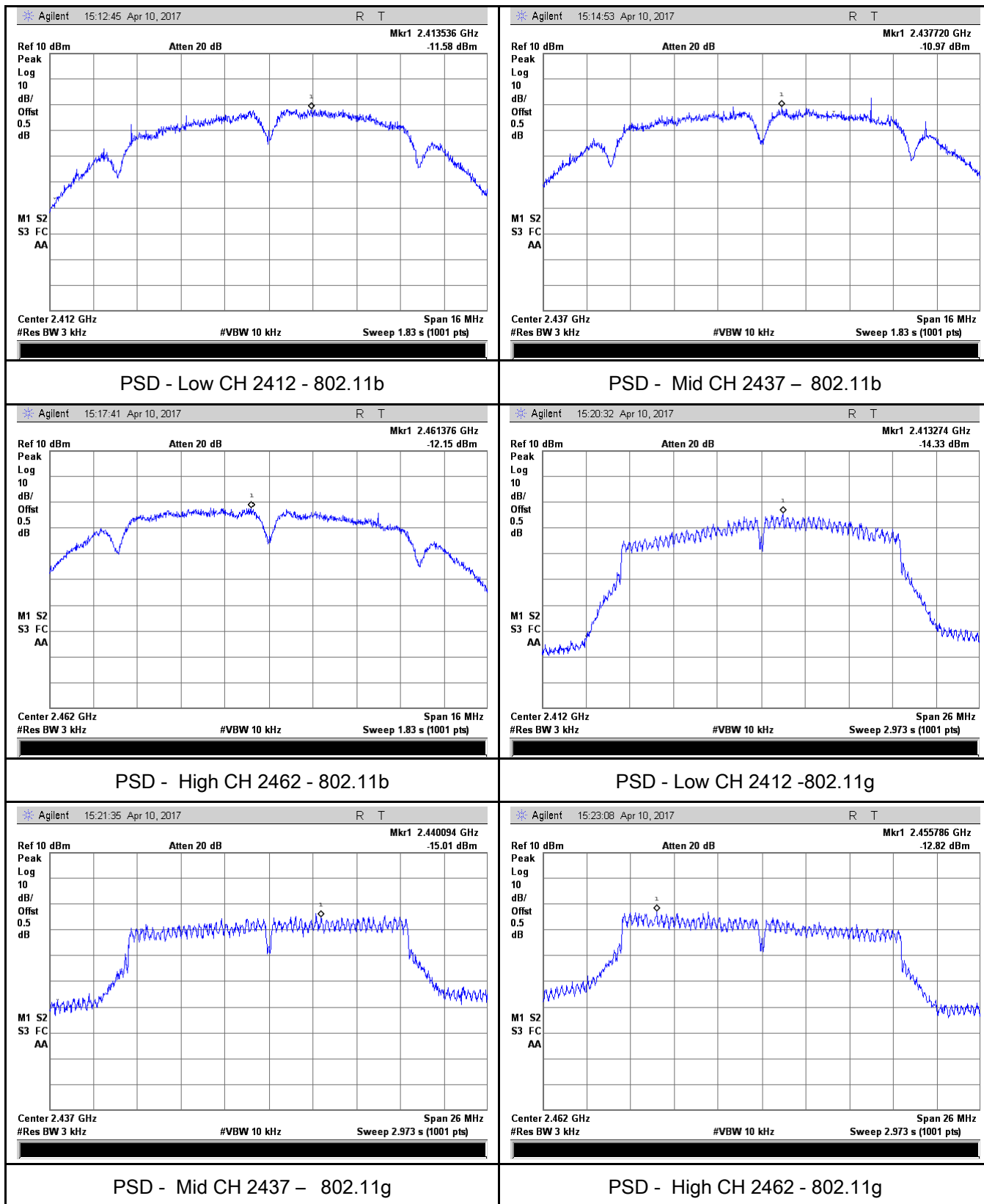
Test Data ☒ Yes ☐ N/A  
 Test Plot ☒ Yes (See below) ☐ N/A

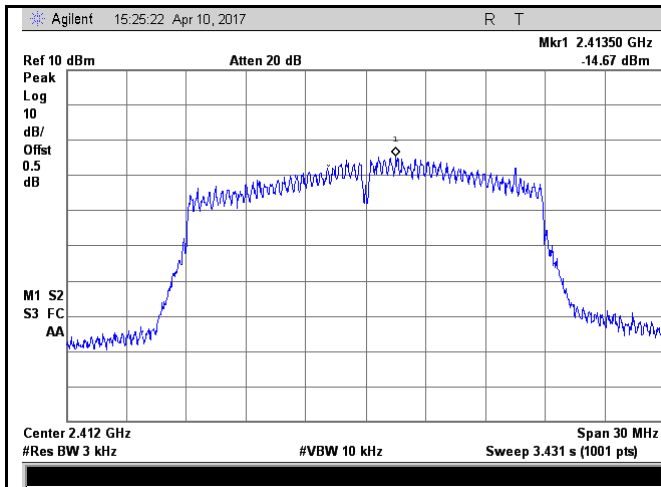
### Power Spectral Density measurement result

Type	Test mode	CH	Freq (MHz)	PSD	Limit (dBm)	Result
				(dBm)		
PSD	802.11b	Low	2412	-11.58	8	Pass
		Mid	2437	-10.97	8	Pass
		High	2462	-12.15	8	Pass
	802.11g	Low	2412	-14.33	8	Pass
		Mid	2437	-15.01	8	Pass
		High	2462	-12.82	8	Pass
	802.11n (20M)	Low	2412	-14.67	8	Pass
		Mid	2437	-13.98	8	Pass
		High	2462	-12.94	8	Pass
	802.11n (40M)	Low	2422	-15.03	8	Pass
		Mid	2437	-14.96	8	Pass
		High	2452	-15.04	8	Pass

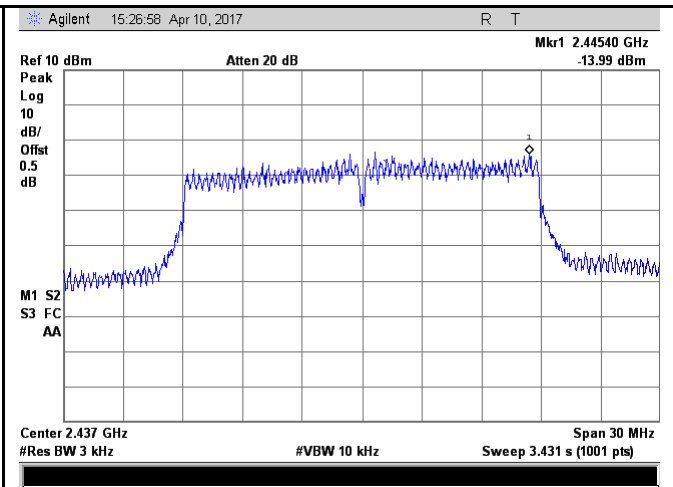
## Test Plots

### Power Spectral Density measurement result

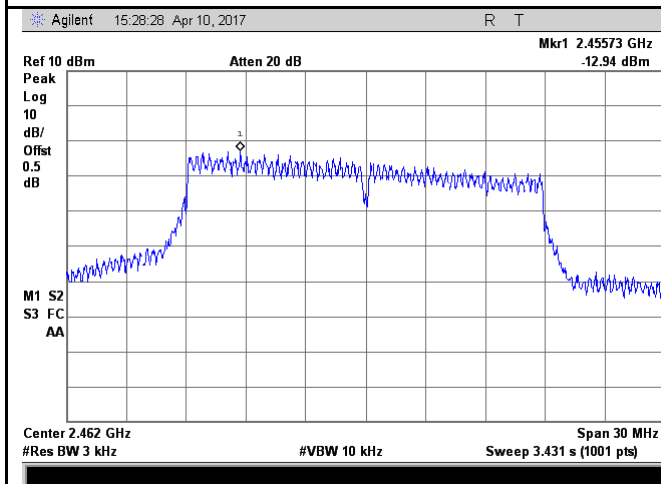




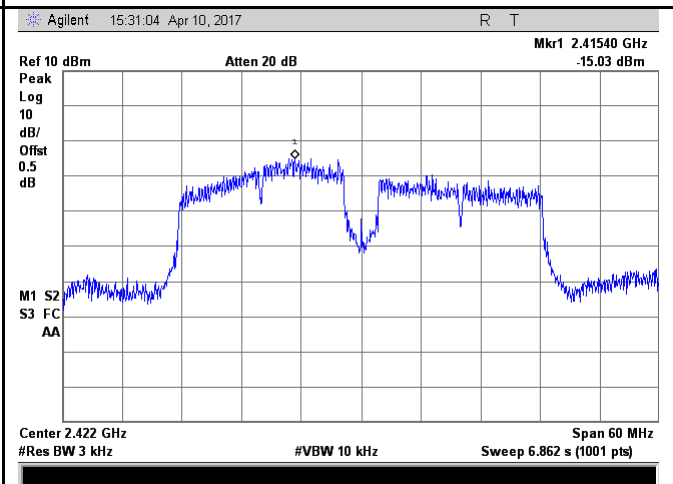
PSD - Low CH 2412 - 802.11n20



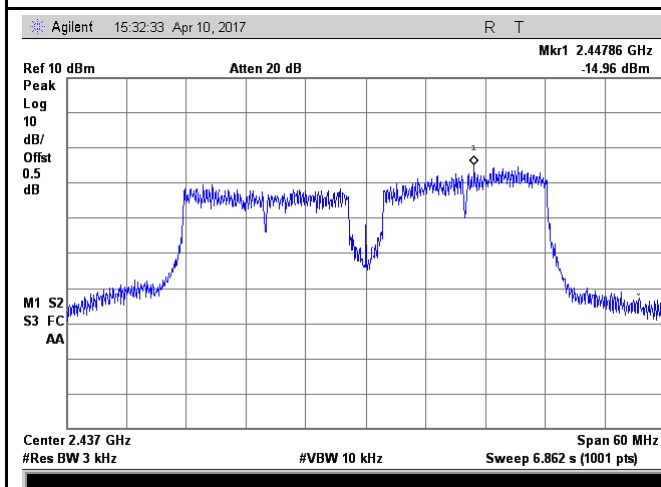
PSD - Mid CH 2437 - 802.11n20



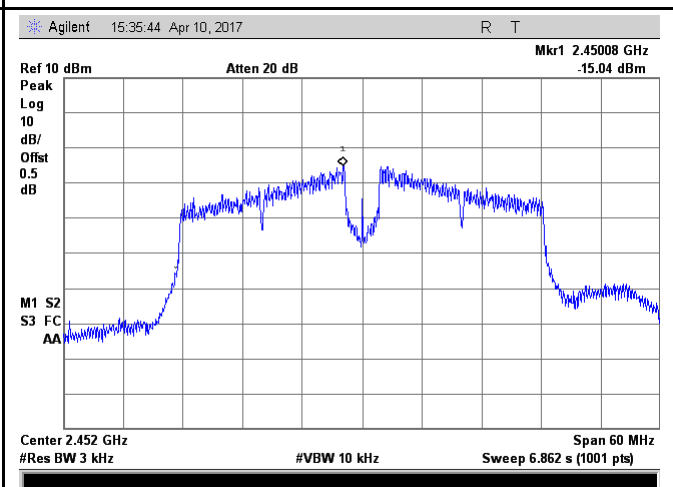
PSD - High CH 2472 - 802.11n20



PSD - Low CH 2422 - 802.11n40



PSD - Mid CH 2437 - 802.11n40



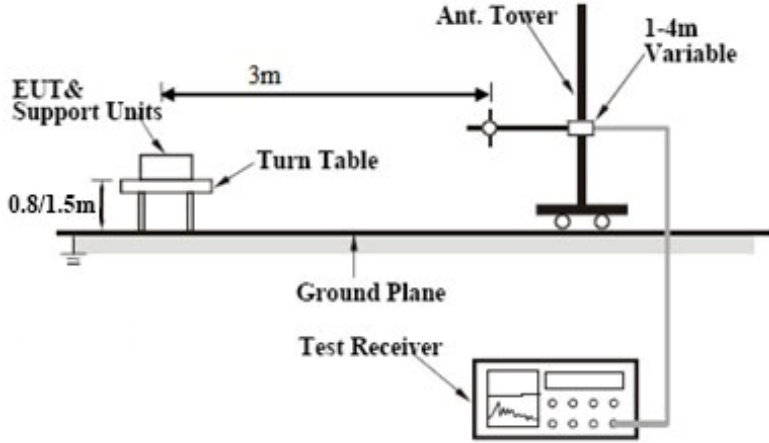
PSD - High CH 2452 - 802.11n40



## 6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1022mbar
Test date :	March 30, 2017
Tested By :	Loren Luo

### Requirement(s):

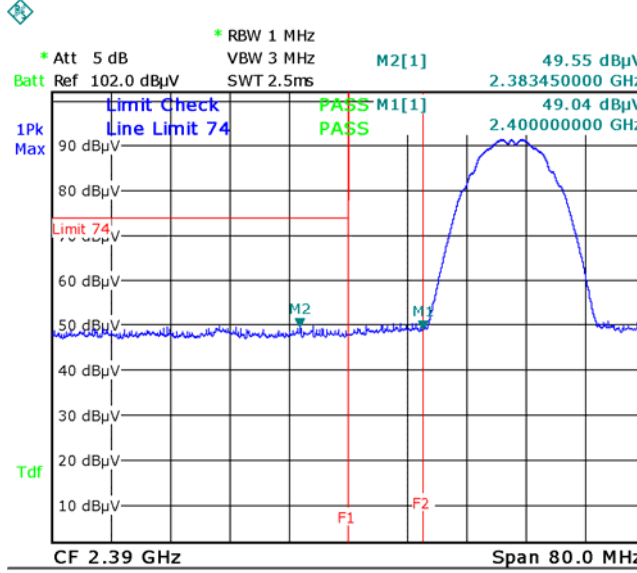
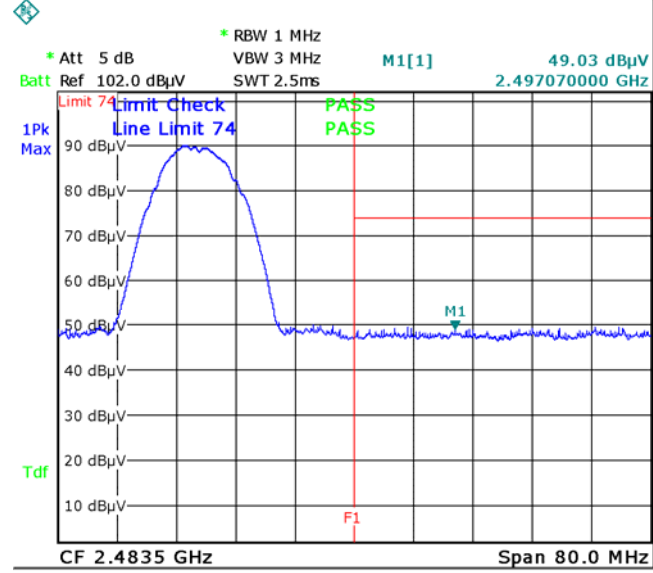
Spec	Item	Requirement	Applicable
§15.247(d)	a)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<p>Radiated Method Only</p> <ul style="list-style-type: none"> <li>1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.</li> <li>2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.</li> </ul>		

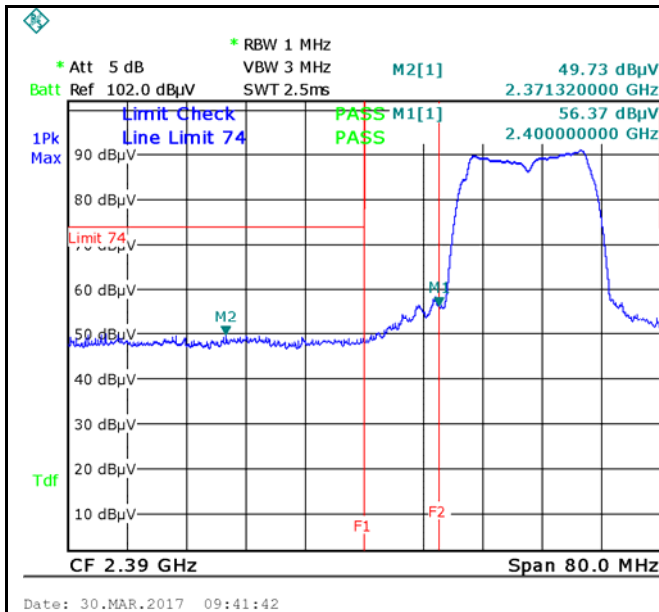
	<ul style="list-style-type: none"> <li>- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below:               <ul style="list-style-type: none">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

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

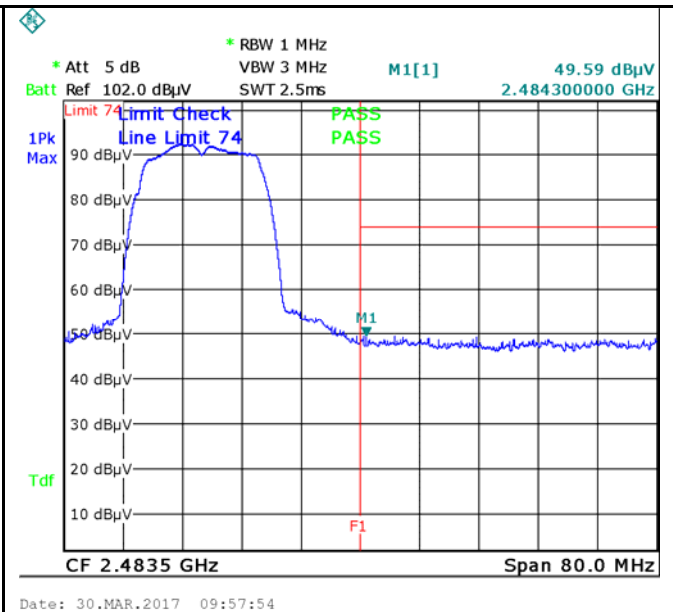
## Test Plots

### Band Edge measurement result

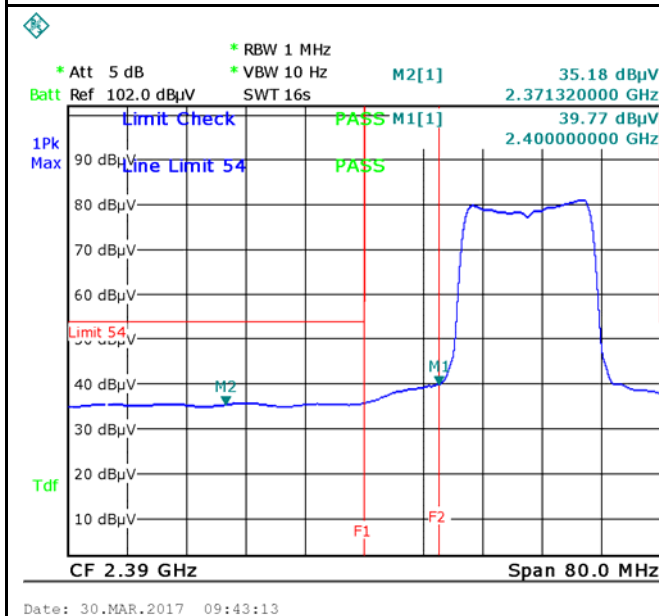
 <p>Date: 30.MAR.2017 09:39:28</p>	 <p>Date: 30.MAR.2017 09:55:00</p>
<p>Band Edge, Left Side (Peak) - 802.11b</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Band Edge, Right Side (Peak) - 802.11b</p> <p>Note: F1 is frequency 2483.5MHz</p>
<p>Note: (no need if PK value less than the AV limit)</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p>Band Edge, Left Side (Average) - 802.11b</p>	<p>Band Edge, Right Side (Average) - 802.11b</p>



Band Edge, Left Side (Peak) - 802.11g  
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



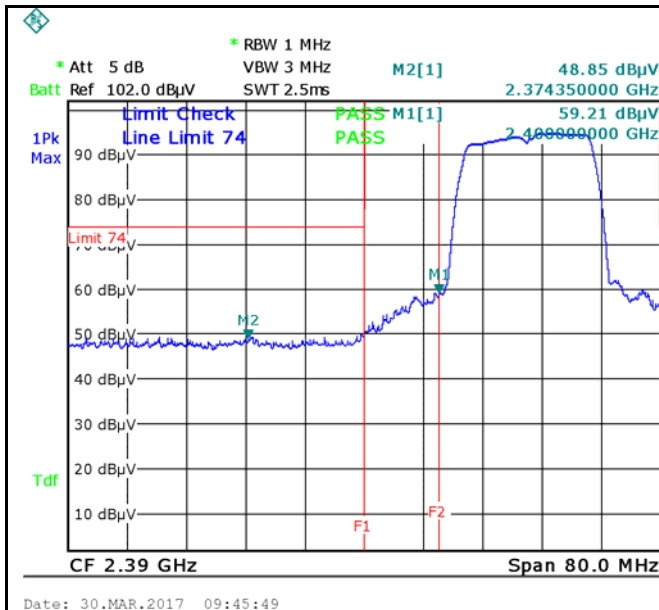
Band Edge, Right Side (Peak) - 802.11g  
Note: F1 is frequency 2483.5MHz



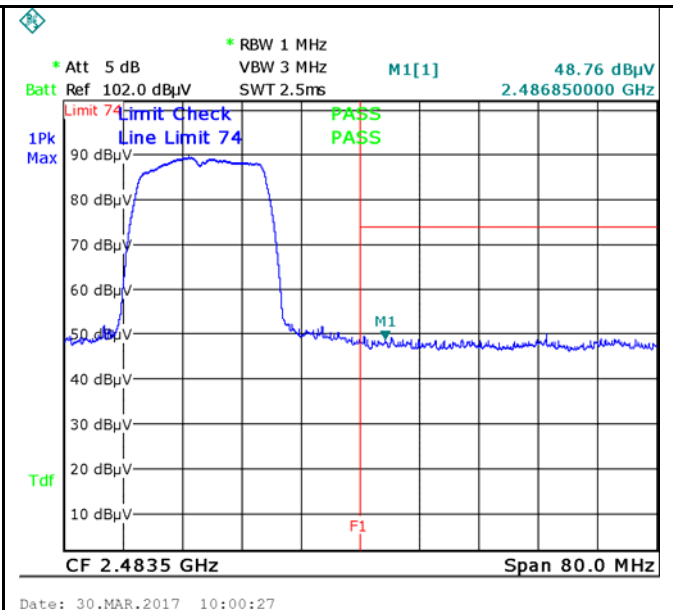
Band Edge, Left Side (Average) - 802.11g  
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz

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

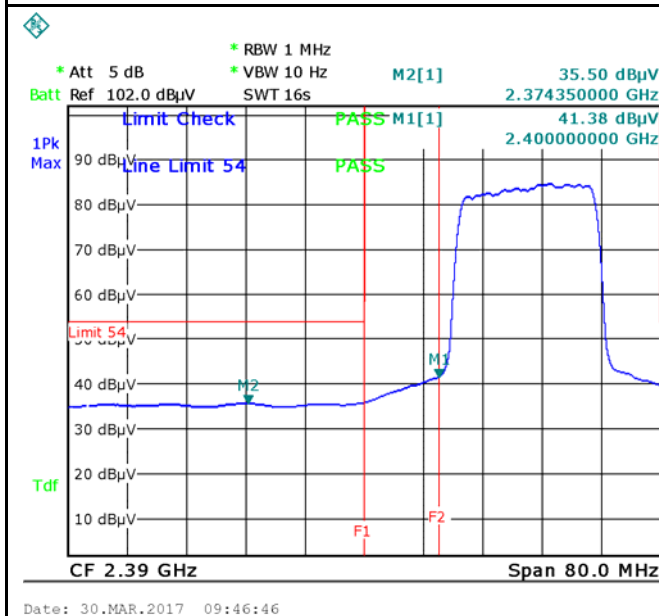
Band Edge, Right Side (Average) - 802.11g  
Note: F1 is frequency 2483.5MHz



Band Edge, Left Side (Peak) - 802.11n20  
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



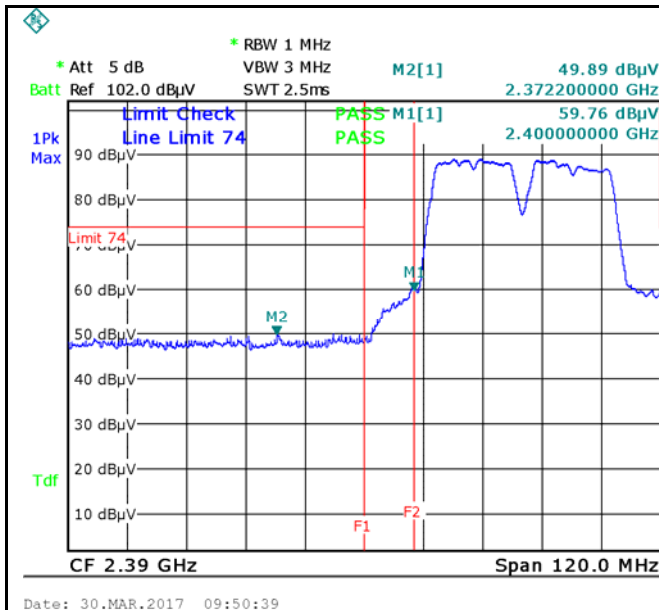
Band Edge, Right Side (Peak) - 802.11n20  
Note: F1 is frequency 2483.5MHz



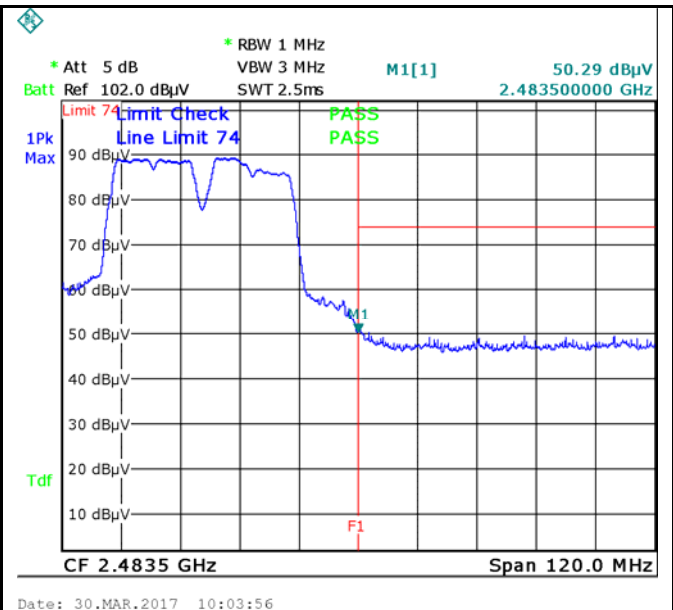
Band Edge, Left Side (Average) - 802.11n20  
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz

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

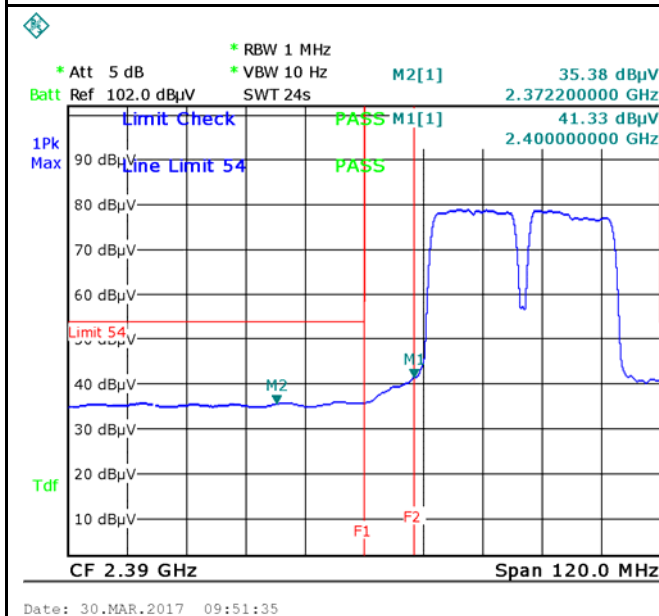
Band Edge, Right Side (Average) - 802.11n20  
Note: F1 is frequency 2483.5MHz



Band Edge, Left Side (Peak) - 802.11n40  
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



Band Edge, Right Side (Peak) - 802.11n40  
Note: F1 is frequency 2483.5MHz



Band Edge, Left Side (Average) - 802.11n40  
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz

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

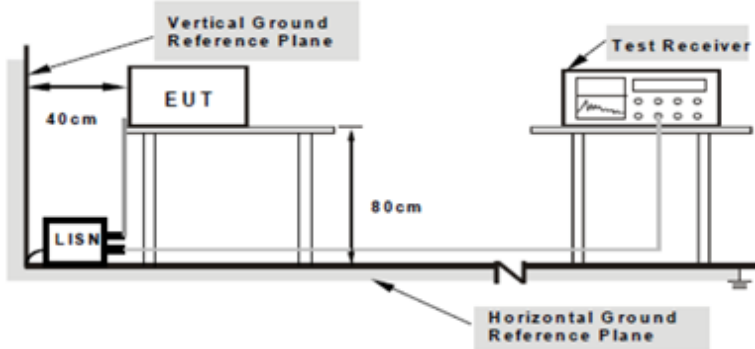
Band Edge, Right Side (Average) - 802.11n40  
Note: F1 is frequency 2483.5MHz

## 6.6 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	55%
Atmospheric Pressure	1023mbar
Test date :	March 29, 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.	<div><input checked="" type="checkbox"/></div>		
		Frequency ranges (MHz)		Limit (dBµV)	
				QP	Average
		0.15 ~ 0.5		66 – 56	56 – 46
		0.5 ~ 5		56	46
5 ~ 30	60	50			

Test Setup	 <p>Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>
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Procedure	<ol style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss</li> </ol>
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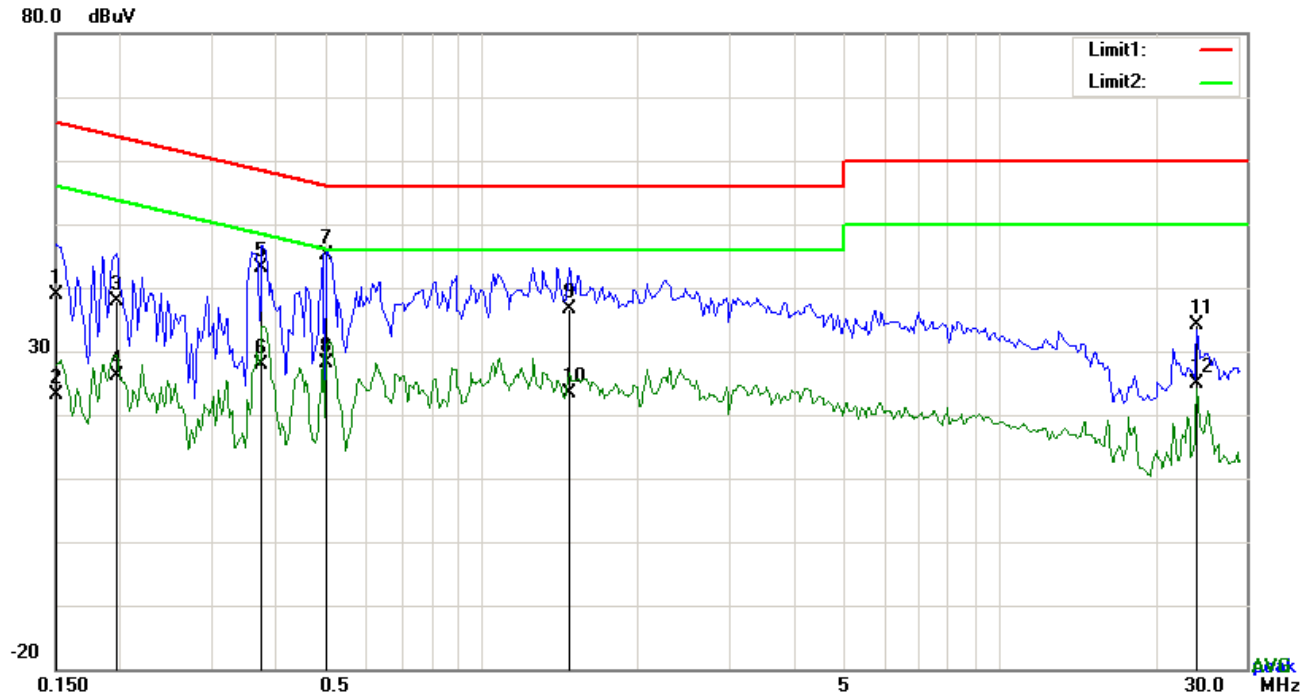
	<p>coaxial cable.</p> <ol style="list-style-type: none"> <li>4. All other supporting equipment were powered separately from another main supply.</li> <li>5. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.</li> <li>7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz.</li> <li>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</li> </ol>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A



**Test Mode:** Transmitting Mode

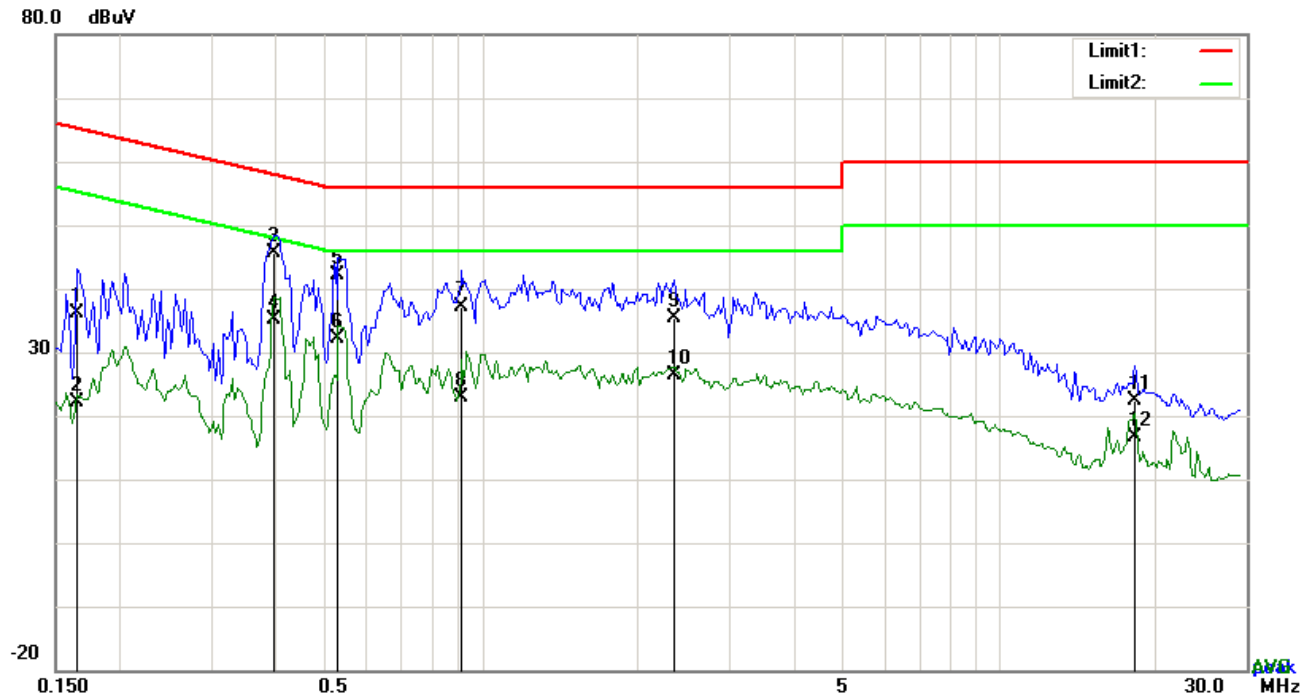


### Test Data

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

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	L1	0.1500	28.90	QP	10.03	38.93	66.00	-27.07
2	L1	0.1500	13.19	AVG	10.03	23.22	56.00	-32.78
3	L1	0.1968	27.74	QP	10.03	37.77	63.74	-25.97
4	L1	0.1968	16.01	AVG	10.03	26.04	53.74	-27.70
5	L1	0.3762	33.18	QP	10.03	43.21	58.36	-15.15
6	L1	0.3762	17.81	AVG	10.03	27.84	48.36	-20.52
7	L1	0.5010	35.19	QP	10.03	45.22	56.00	-10.78
8	L1	0.5010	18.13	AVG	10.03	28.16	46.00	-17.84
9	L1	1.4721	26.53	QP	10.04	36.57	56.00	-19.43
10	L1	1.4721	13.32	AVG	10.04	23.36	46.00	-22.64
11	L1	24.0249	23.78	QP	10.38	34.16	60.00	-25.84
12	L1	24.0249	14.57	AVG	10.38	24.95	50.00	-25.05

**Test Mode:** Transmitting Mode

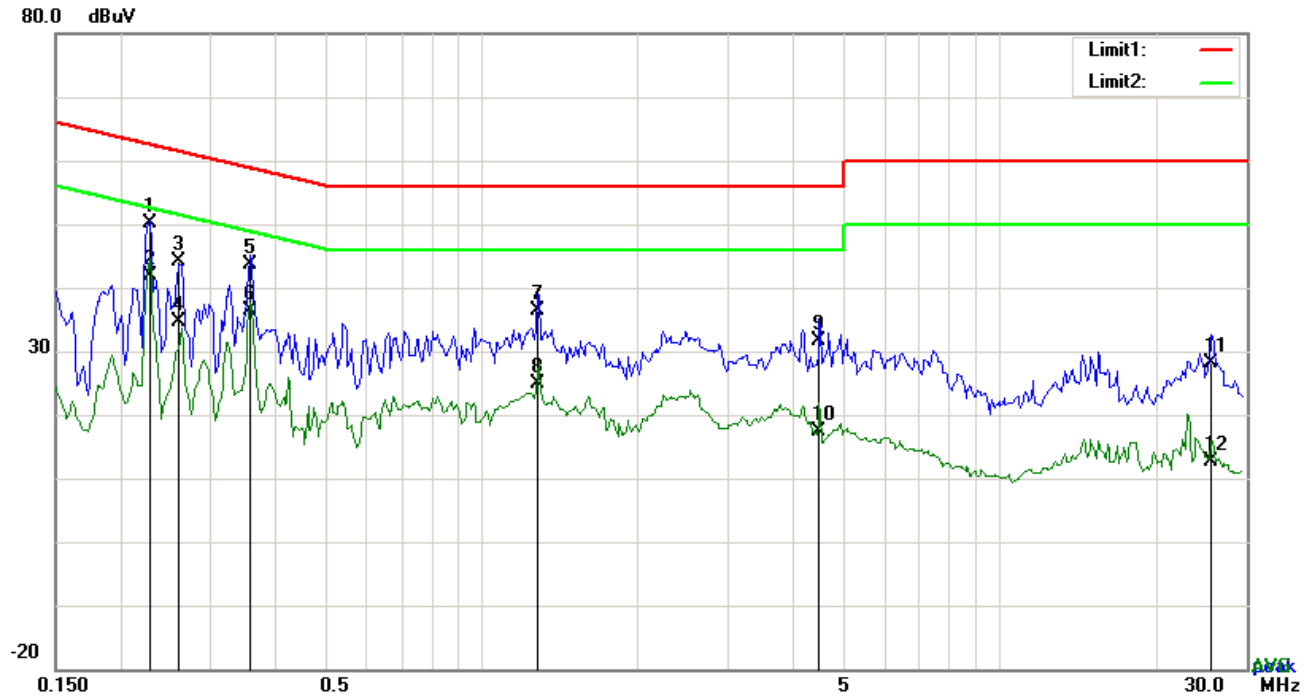


**Test Data**

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

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1656	26.03	QP	10.02	36.05	65.18	-29.13
2	N	0.1656	12.05	AVG	10.02	22.07	55.18	-33.11
3	N	0.3957	35.72	QP	10.02	45.74	57.94	-12.20
4	N	0.3957	25.12	AVG	10.02	35.14	47.94	-12.80
5	N	0.5283	32.00	QP	10.02	42.02	56.00	-13.98
6	N	0.5283	22.15	AVG	10.02	32.17	46.00	-13.83
7	N	0.9144	27.01	QP	10.03	37.04	56.00	-18.96
8	N	0.9144	12.81	AVG	10.03	22.84	46.00	-23.16
9	N	2.3496	25.32	QP	10.04	35.36	56.00	-20.64
10	N	2.3496	16.26	AVG	10.04	26.30	46.00	-19.70
11	N	18.2451	12.12	QP	10.24	22.36	60.00	-37.64
12	N	18.2451	6.50	AVG	10.24	16.74	50.00	-33.26

**Test Mode:** Transmitting Mode

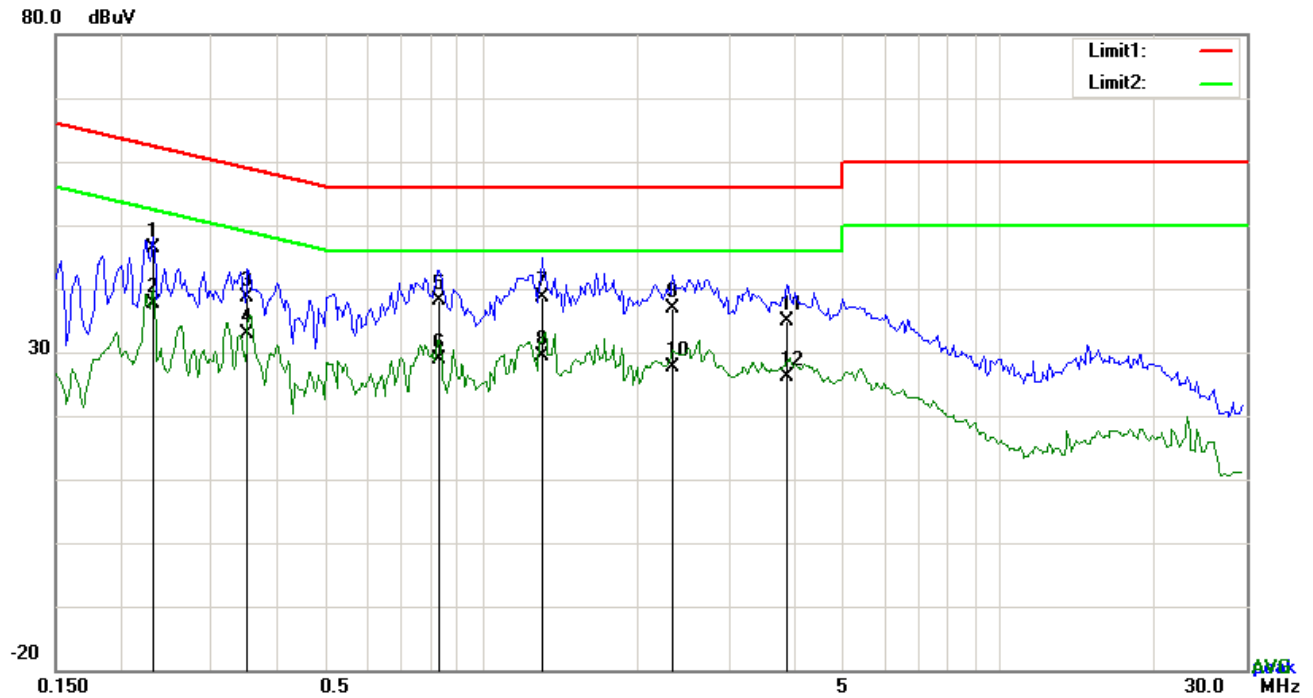


### Test Data

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

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	L1	0.2280	40.10	QP	10.03	50.13	62.52	-12.39
2	L1	0.2280	31.73	AVG	10.03	41.76	52.52	-10.76
3	L1	0.2592	34.10	QP	10.03	44.13	61.46	-17.33
4	L1	0.2592	24.58	AVG	10.03	34.61	51.46	-16.85
5	L1	0.3567	33.59	QP	10.03	43.62	58.80	-15.18
6	L1	0.3567	26.27	AVG	10.03	36.30	48.80	-12.50
7	L1	1.2810	26.46	QP	10.03	36.49	56.00	-19.51
8	L1	1.2810	14.93	AVG	10.03	24.96	46.00	-21.04
9	L1	4.4898	21.47	QP	10.07	31.54	56.00	-24.46
10	L1	4.4898	7.35	AVG	10.07	17.42	46.00	-28.58
11	L1	25.6941	17.72	QP	10.41	28.13	60.00	-31.87
12	L1	25.6941	2.14	AVG	10.41	12.55	50.00	-37.45

**Test Mode:** Transmitting Mode



### Test Data

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

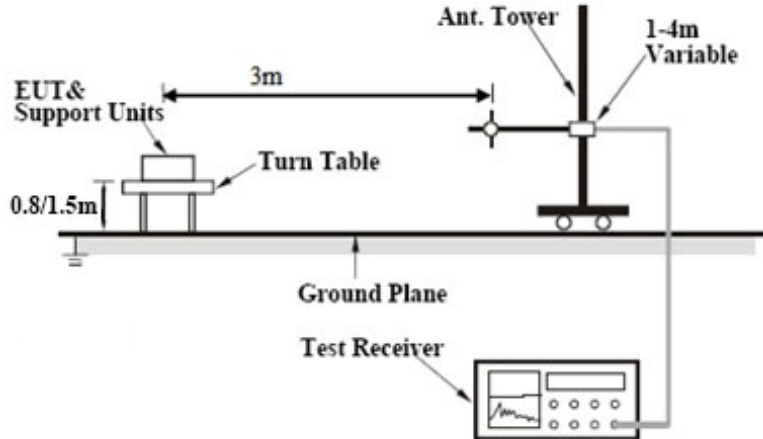
No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	N	0.2319	36.29	QP	10.02	46.31	62.38	-16.07
2	N	0.2319	27.67	AVG	10.02	37.69	52.38	-14.69
3	N	0.3528	28.60	QP	10.02	38.62	58.90	-20.28
4	N	0.3528	22.80	AVG	10.02	32.82	48.90	-16.08
5	N	0.8286	28.19	QP	10.03	38.22	56.00	-17.78
6	N	0.8286	18.77	AVG	10.03	28.80	46.00	-17.20
7	N	1.3044	28.63	QP	10.03	38.66	56.00	-17.34
8	N	1.3044	19.24	AVG	10.03	29.27	46.00	-16.73
9	N	2.3340	26.89	QP	10.04	36.93	56.00	-19.07
10	N	2.3340	17.70	AVG	10.04	27.74	46.00	-18.26
11	N	3.8970	24.74	QP	10.06	34.80	56.00	-21.20
12	N	3.8970	15.99	AVG	10.06	26.05	46.00	-19.95

## 6.7 Radiated Spurious Emissions & Restricted Band

Temperature	25°C
Relative Humidity	55%
Atmospheric Pressure	1023mbar
Test date :	March 29, 2017
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.247(d), RSS210 (A8.5)	a)	<div>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</div> <table><tr><th>Frequency range (MHz)</th><th>Field Strength (µV/m)</th></tr><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></table>	Frequency range (MHz)	Field Strength (µV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	<div><input checked="" type="checkbox"/></div>
	Frequency range (MHz)	Field Strength (µV/m)											
	30 – 88	100											
	88 – 216	150											
216 960	200												
Above 960	500												
b)	<div>For non-restricted band, 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 or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required</div> <div><input checked="" type="checkbox"/> 20 dB down      <input type="checkbox"/> 30 dB down</div>	<div><input checked="" type="checkbox"/></div>											
c)	<div>or restricted band, emission must also comply with the radiated emission limits specified in 15.209</div>	<div><input checked="" type="checkbox"/></div>											

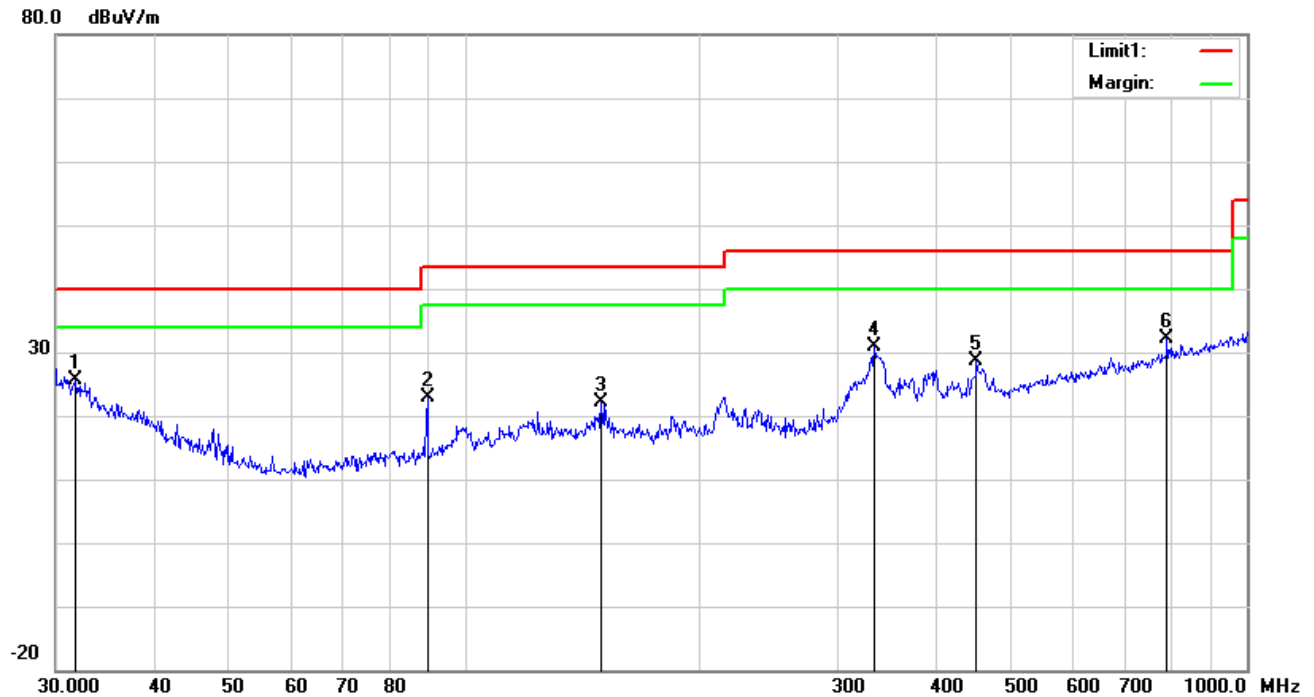
Test Setup	
Procedure	<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz.</li> <li>The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>
Remark	Different RF configuration has been evaluated but not much difference was found. The data presented here is the worst case data with EUT under 802.11n – HT20-2437MHz mode.
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

**Test Mode:** Transmitting Mode

(Below 1GHz)

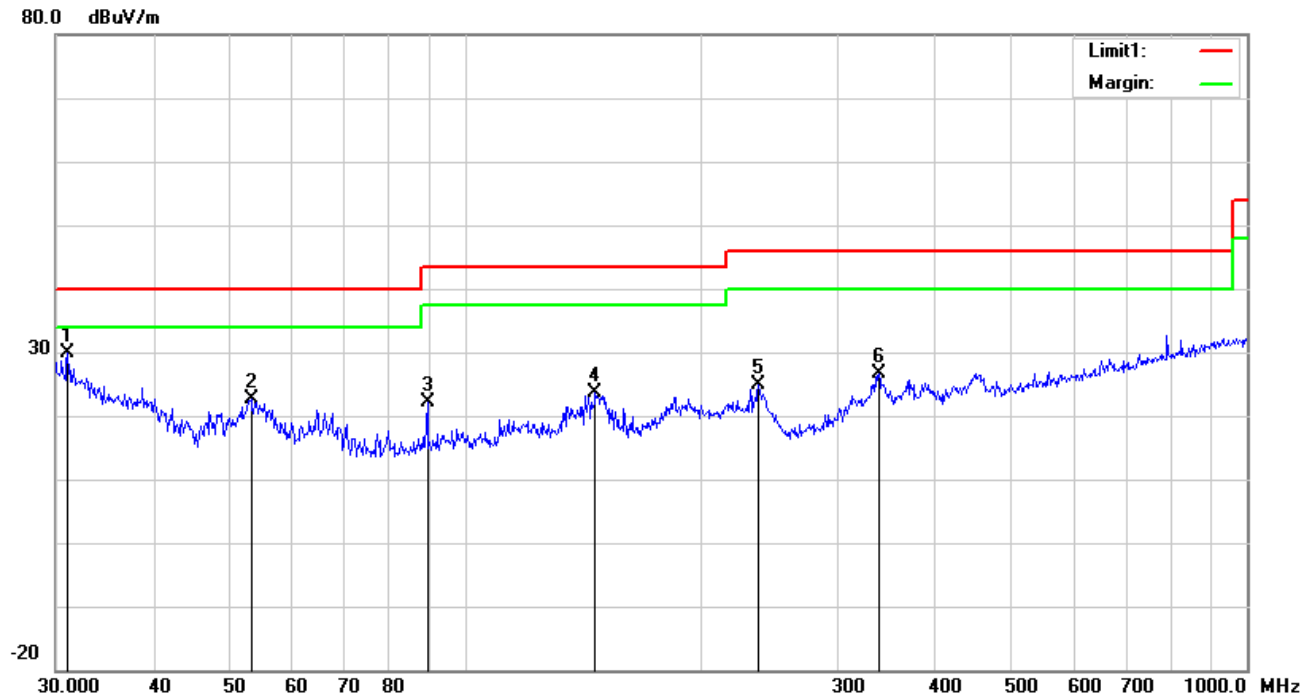


**Test Data**

**Horizontal Polarity Plot @3m**

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	H	31.8427	27.14	peak	19.98	22.27	0.67	25.52	40.00	-14.48	100	345
2	H	89.5900	36.37	peak	7.98	22.32	0.96	22.99	43.50	-20.51	100	93
3	H	149.4857	30.46	peak	12.60	22.34	1.34	22.06	43.50	-21.44	100	193
4	H	333.6867	36.69	peak	14.31	22.20	1.96	30.76	46.00	-15.24	100	273
5	H	451.1350	31.60	peak	16.72	21.91	2.14	28.55	46.00	-17.45	100	299
6	H	790.6188	29.16	peak	21.29	21.17	2.94	32.22	46.00	-13.78	100	108

### (Below 1GHz)



### Test Data

#### Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	31.0706	30.90	peak	20.58	22.27	0.65	29.86	40.00	-10.14	100	134
2	V	53.3179	36.20	peak	8.04	22.39	0.79	22.64	40.00	-17.36	200	208
3	V	89.5900	35.40	peak	7.98	22.32	0.96	22.02	43.50	-21.48	100	76
4	V	146.8877	32.10	peak	12.60	22.36	1.32	23.66	43.50	-19.84	100	275
5	V	237.4760	33.87	peak	11.58	22.31	1.66	24.80	46.00	-21.20	100	219
6	V	338.4001	32.36	peak	14.41	22.18	1.98	26.57	46.00	-19.43	100	115



## Above 1GHz

Test Mode:	Transmitting Mode
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### Low Channel (2422 MHz) (n40 mode worst case)

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)
4844	38.55	AV	V	33.8	6.86	32.69	46.52	54	-7.48
4844	38.16	AV	H	33.8	6.86	32.69	46.13	54	-7.87
4844	48.14	PK	V	33.8	6.86	32.69	56.11	74	-17.89
4844	48.01	PK	H	33.8	6.86	32.69	55.98	74	-18.02
17902	24.23	AV	V	45.12	11.57	32.11	48.81	54	-5.19
17902	22.4	AV	H	45.12	11.57	32.11	46.98	54	-7.02
17902	40.3	PK	V	45.12	11.57	32.11	64.88	74	-9.12
17902	38.73	PK	H	45.12	11.57	32.11	63.31	74	-10.69

### Middle Channel (2437 MHz) (b mode worst case)

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)
4874	39.17	AV	V	33.6	6.82	32.71	46.88	54	-7.12
4874	39.51	AV	H	33.6	6.82	32.71	47.22	54	-6.78
4874	48.19	PK	V	33.6	6.82	32.71	55.9	74	-18.1
4874	47.77	PK	H	33.6	6.82	32.71	55.48	74	-18.52
17931	23.43	AV	V	45.17	11.63	32.18	48.05	54	-5.95
17931	22.66	AV	H	45.17	11.63	32.18	47.28	54	-6.72
17931	40.2	PK	V	45.17	11.63	32.18	64.82	74	-9.18
17931	39.11	PK	H	45.17	11.63	32.18	63.73	74	-10.27

**High Channel (2462 MHz) (g mode worst case)**

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)
4924	39.78	AV	V	33.83	6.95	32.79	47.77	54	-6.23
4924	38.6	AV	H	33.83	6.95	32.79	46.59	54	-7.41
4924	47.29	PK	V	33.83	6.95	32.79	55.28	74	-18.72
4924	47.37	PK	H	33.83	6.95	32.79	55.36	74	-18.64
17916	23.29	AV	V	45.19	11.61	32.24	47.85	54	-6.15
17916	22.8	AV	H	45.19	11.61	32.24	47.36	54	-6.64
17916	40.2	PK	V	45.19	11.61	32.24	64.76	74	-9.24
17916	39.06	PK	H	45.19	11.61	32.24	63.62	74	-10.38

**Note:**

- 1, The testing has been conformed to  $10 \times 2462 \text{ MHz} = 24,620 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted</b>					
EMI test receiver	ESCS30	8471241027	09/16/2016	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"/>
<b>RF conducted test</b>					
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"/>
<b>Radiated Emissions</b>					
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



Adapter - Label View





EUT - Front View



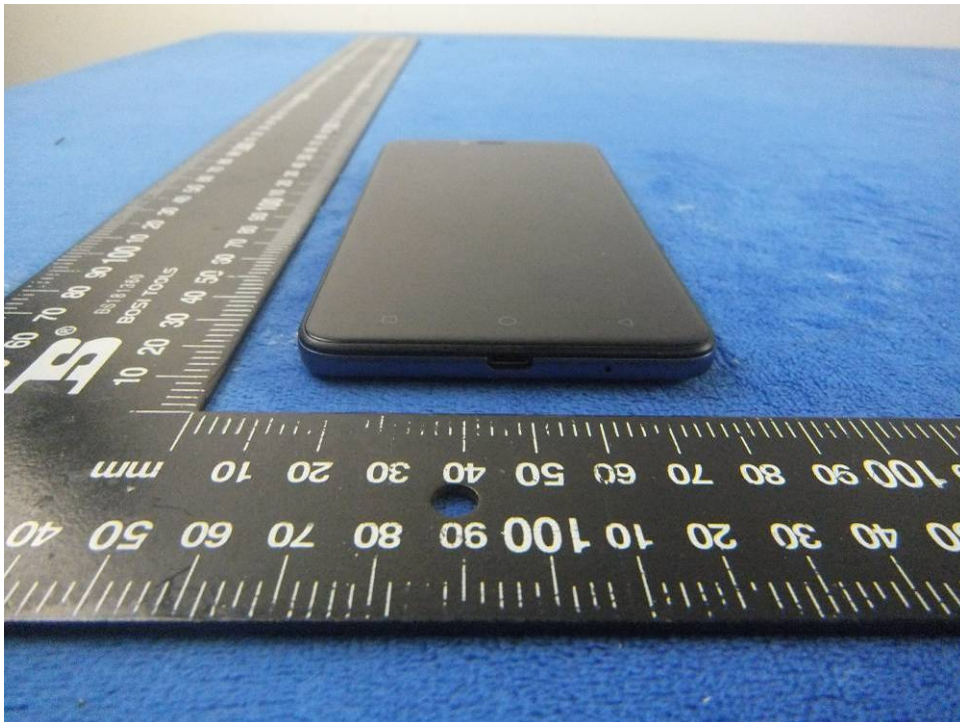
EUT - Rear View



EUT - Top View

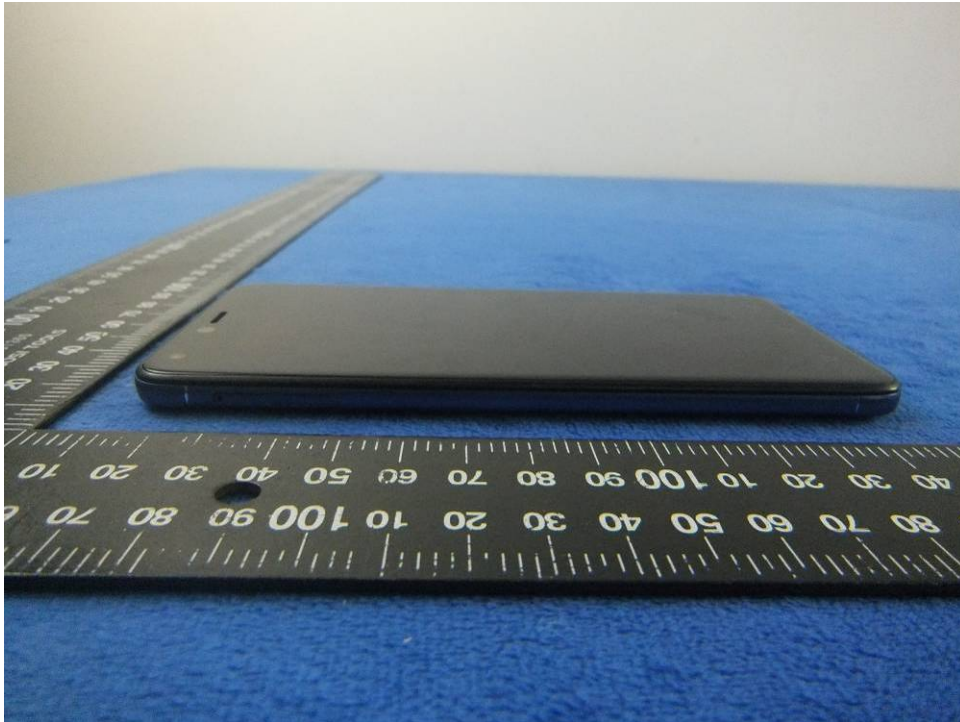


EUT - Bottom View

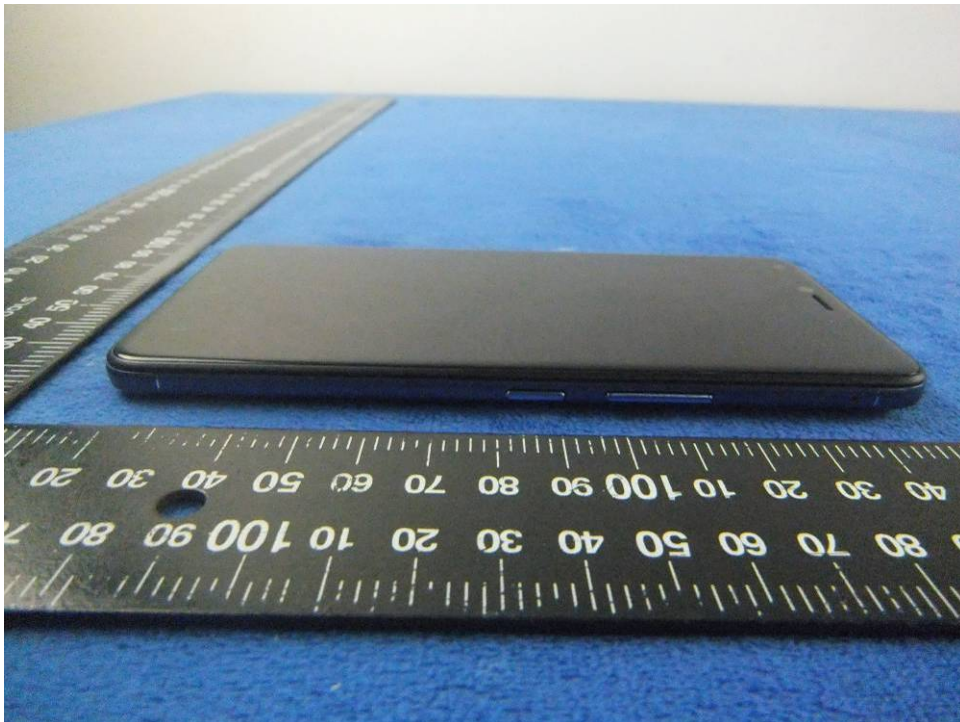




EUT - Left View



EUT - Right View



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

**Cover Off - Top View 1**

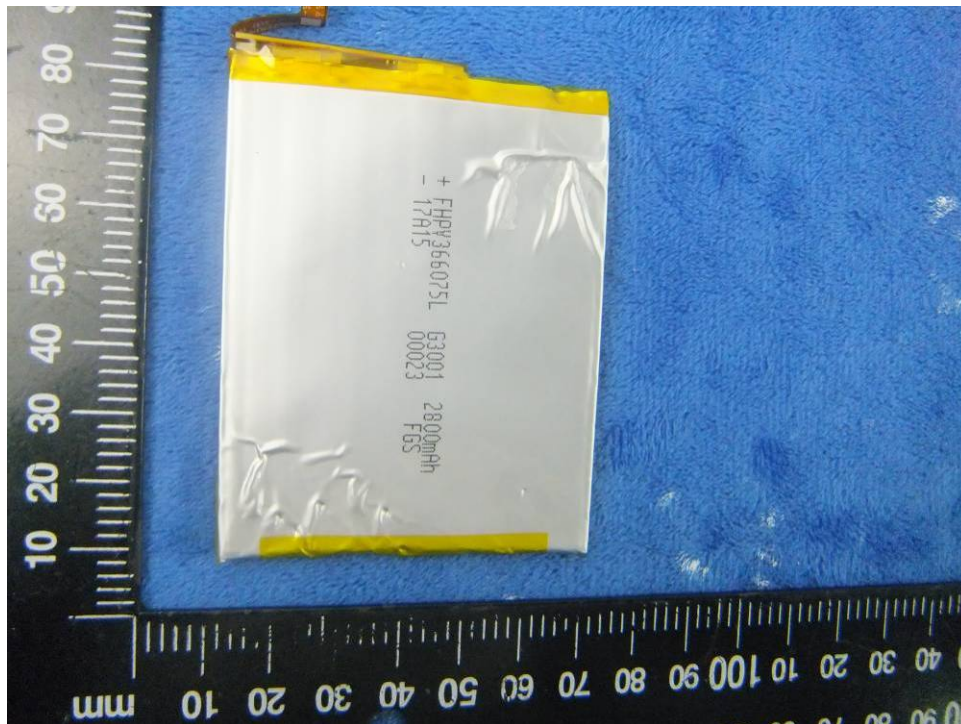


**Cover Off - Top View 2**





Battery - Front View

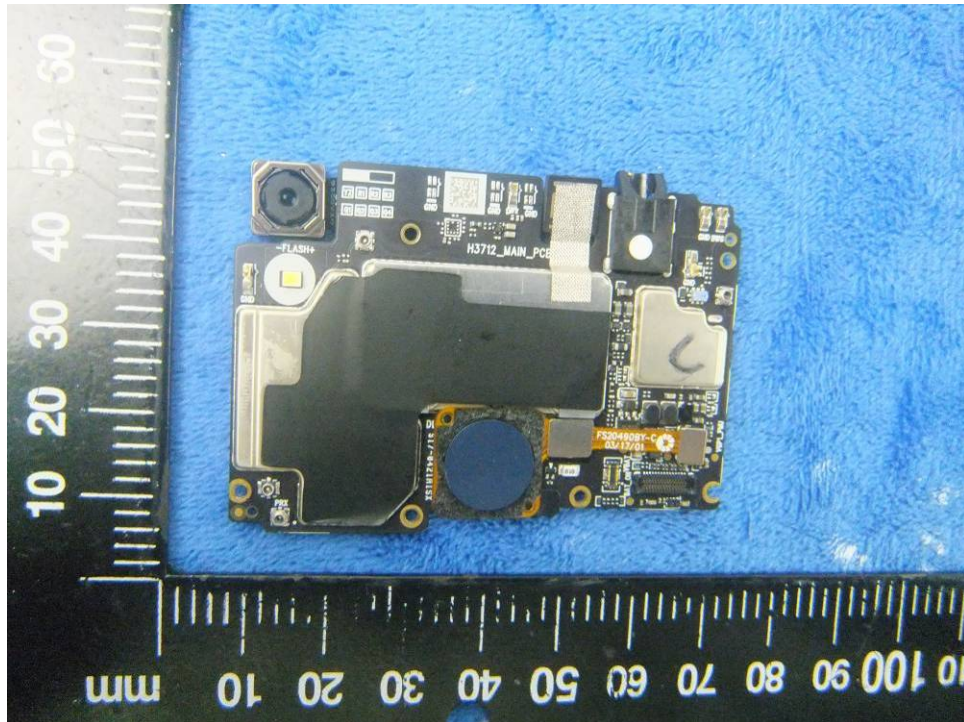


Battery - Rear View

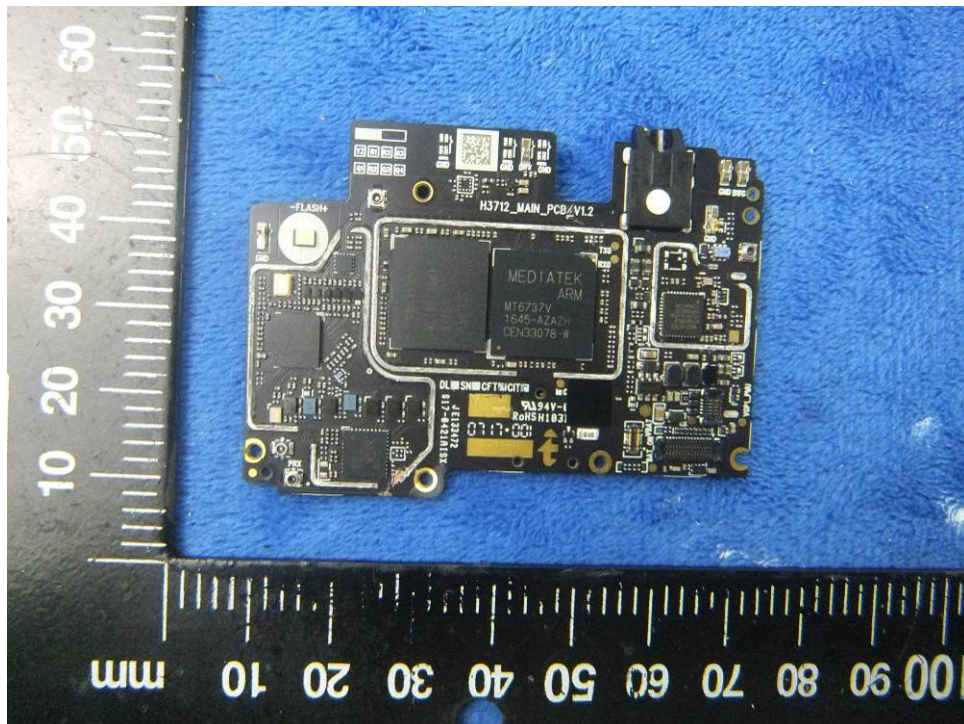




Mainboard with Shielding - Front View

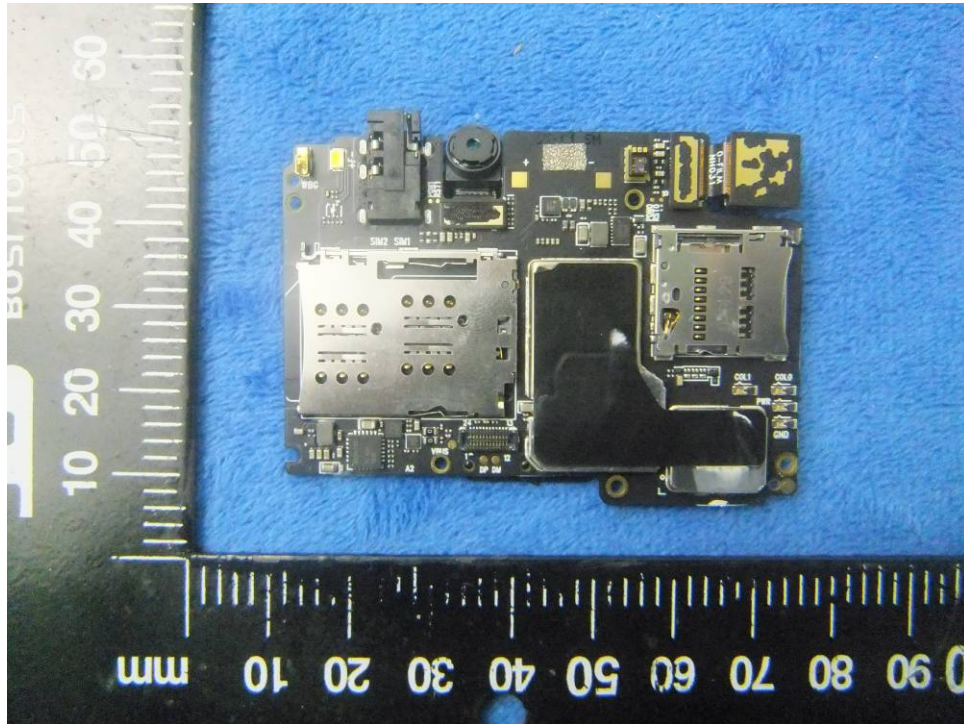


Mainboard without Shielding - Front View

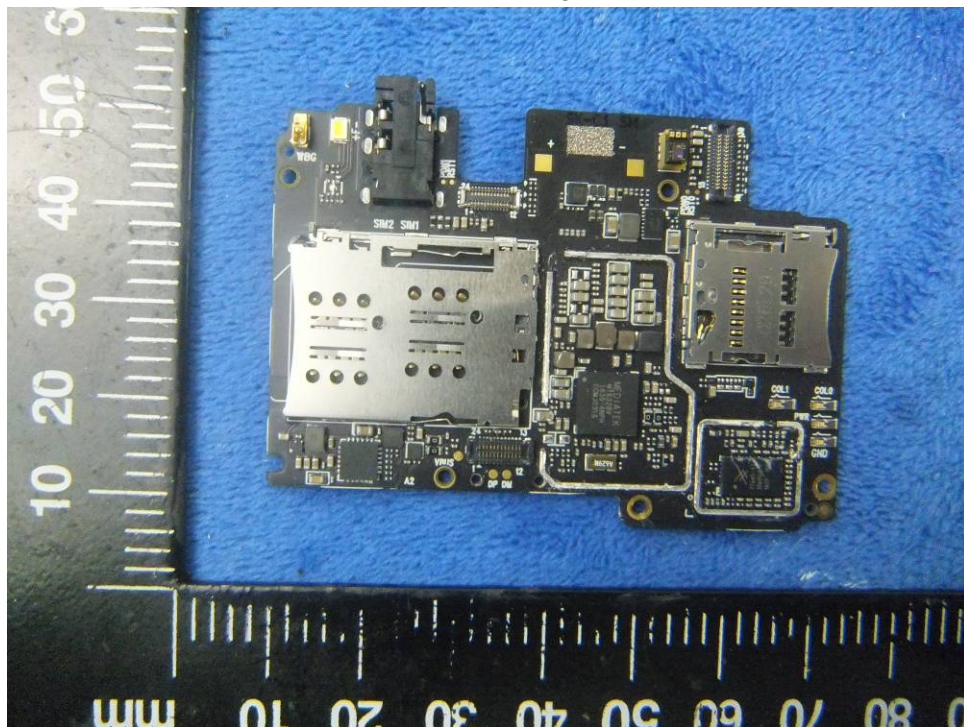




Mainboard with Shielding – Rear View



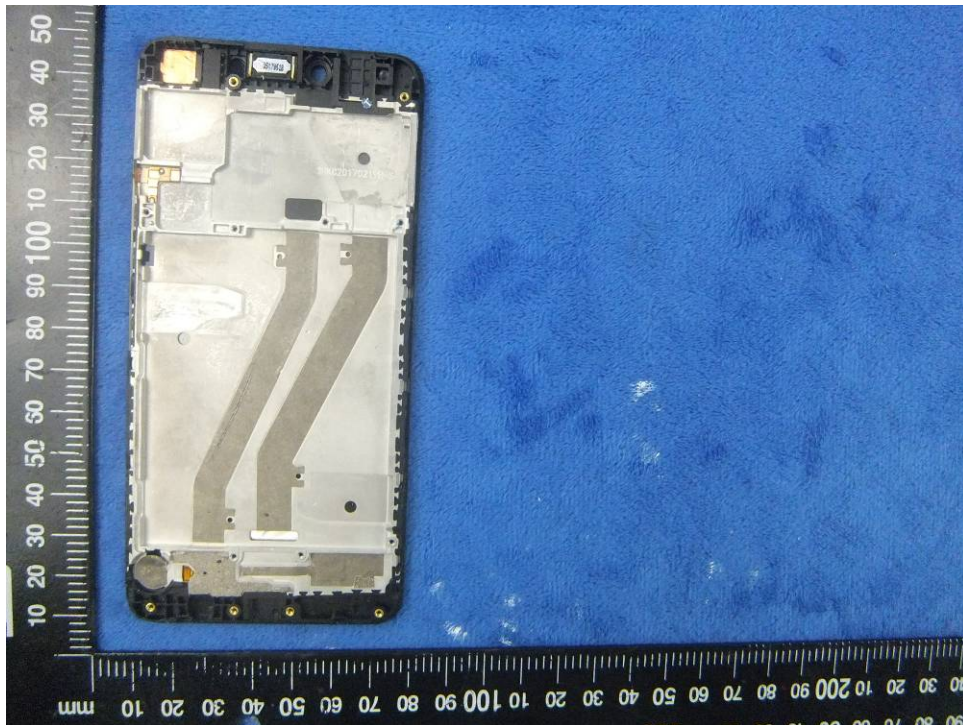
Mainboard without Shielding – Rear View



LCD – Front View



LCD – Rear View

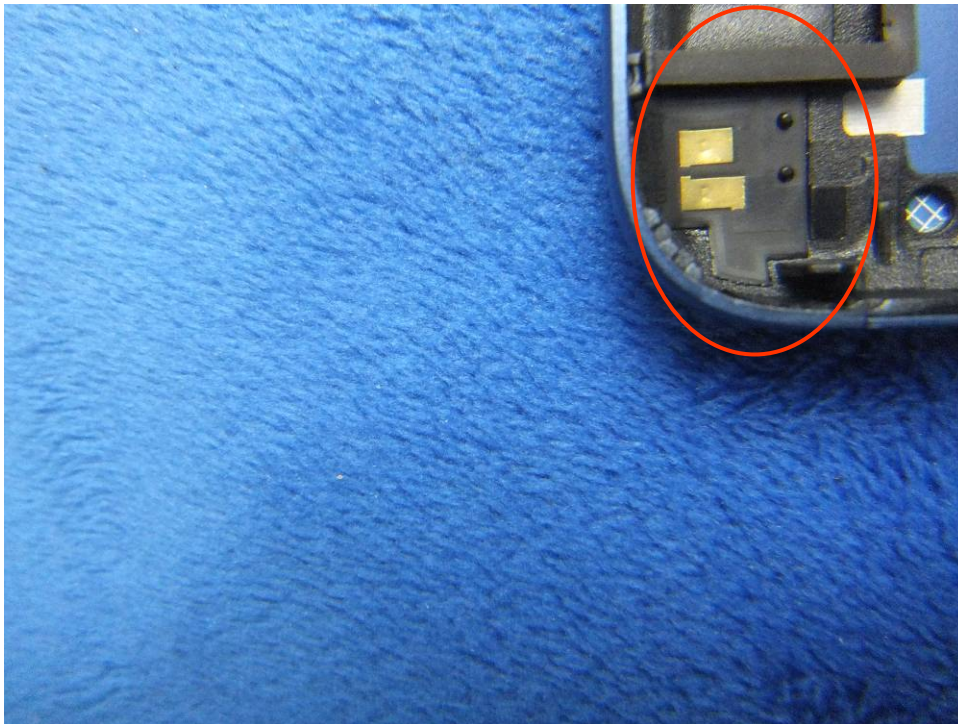




GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE/GPS - Antenna View



LTE - Antenna View





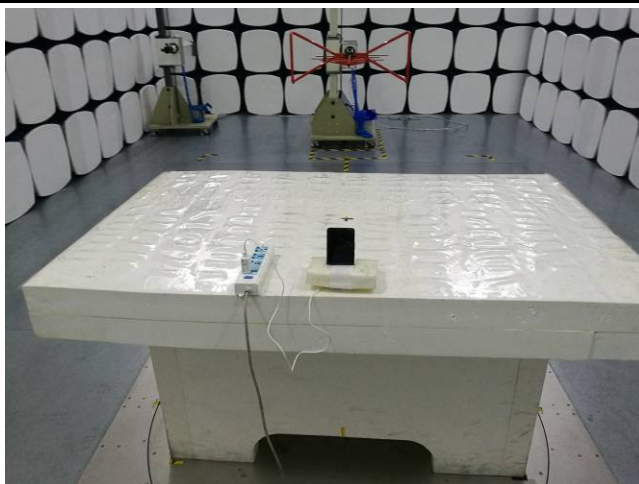
### Annex B.iii. Photograph: Test Setup Photo



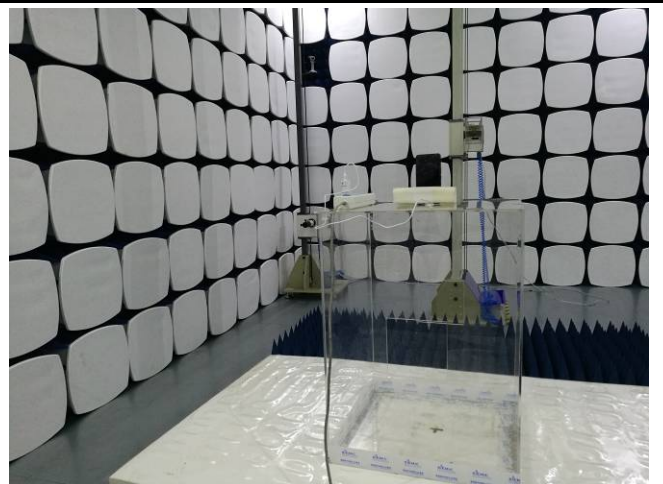
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

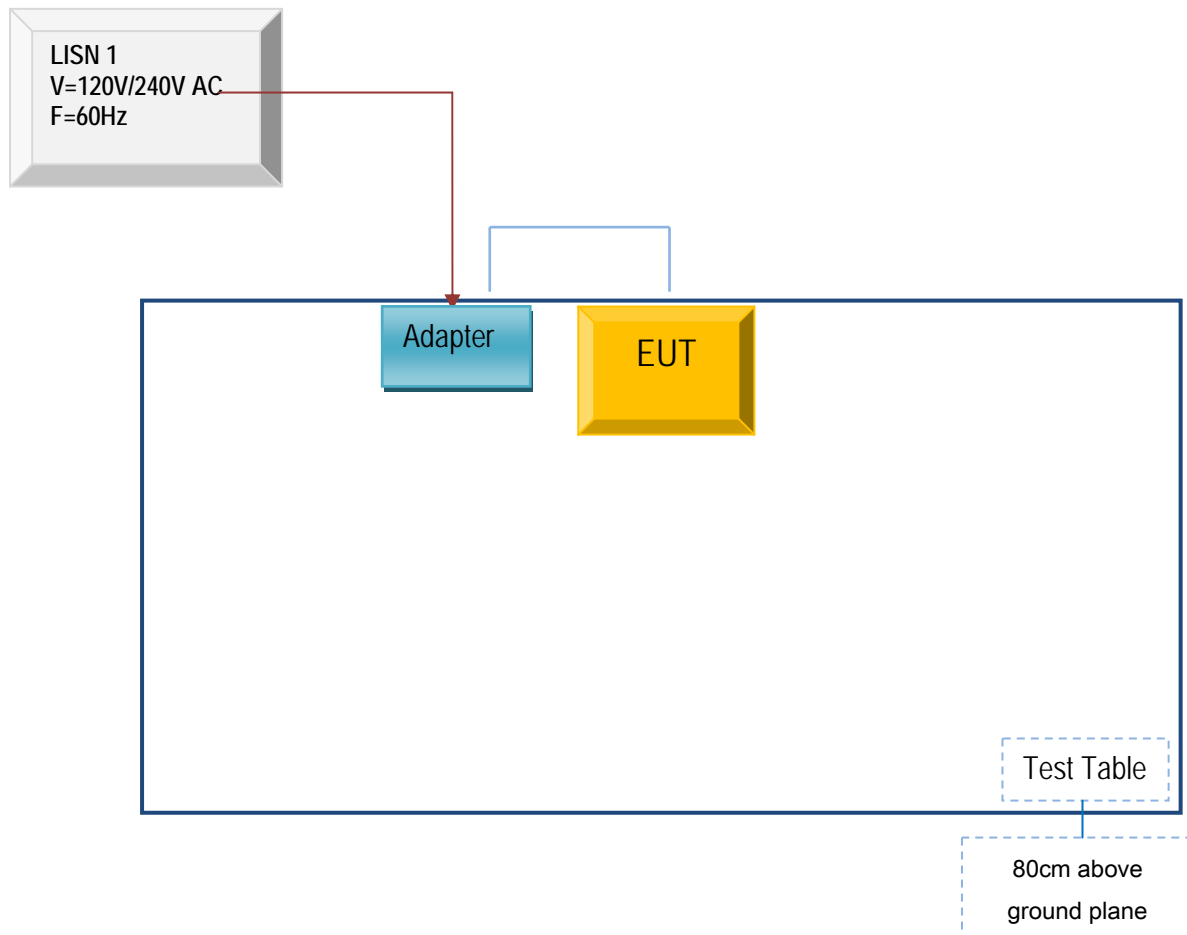


Radiated Spurious Emissions Test Setup Above  
1GHz

## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

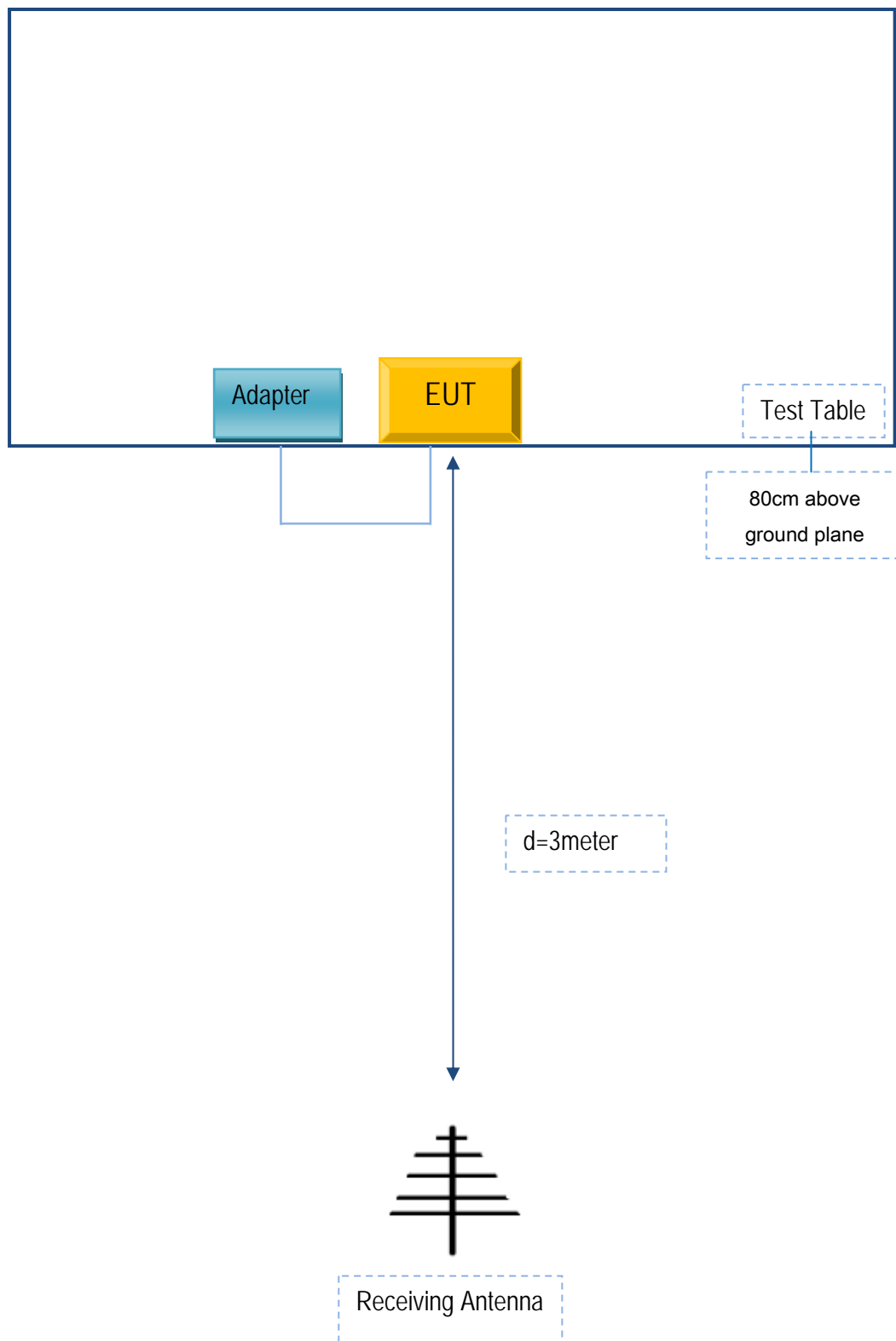
### Annex C.ii. TEST SET UP BLOCK

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

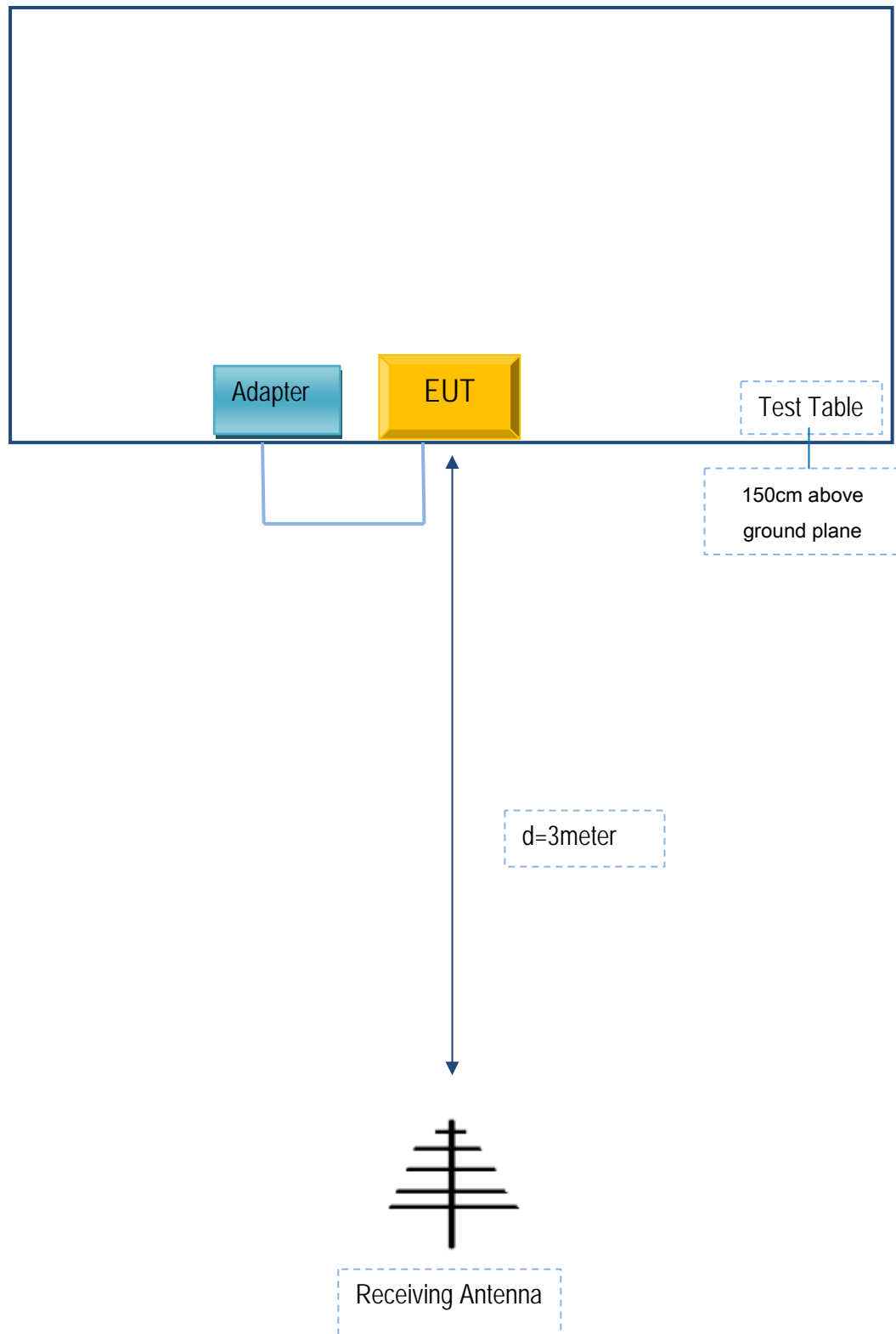




# Block Configuration Diagram for Radiated Emissions ( Below 1GHz ) .



**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
TECNO MOBILE LIMITED	Adapter	A8-50100	F1012

### **Supporting Cable:**

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

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

Please see the attachment

## Annex E. DECLARATION OF SIMILARITY

N/A