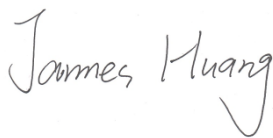


# FCC RF Test Report

**APPLICANT** : TCL Communication Ltd.  
**EQUIPMENT** : HSDPA/HSUPA/HSPA+/UMTS quad band / GSM quad band/LTE 6 band mobile phone  
**BRAND NAME** : ALCATEL  
**MODEL NAME** : 6070O  
**FCC ID** : 2ACCJN008  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

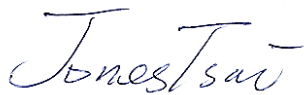
The product was received on May 20, 2016 and testing was completed on Jul. 04, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.



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Prepared by: James Huang / Manager



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Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL (KUNSHAN) INC.**  
**No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China**



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## REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR652006E	Rev. 01	Initial issue of report	Jul. 08, 2016

## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	FCC ≤24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 3.11 dB at 5467.120 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 2.50 dB at 23.890 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



# 1 General Description

## 1.1 Applicant

**TCL Communication Ltd.**

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203

## 1.2 Manufacturer

**TCL Communication Ltd.**

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203

## 1.3 Product Feature of Equipment Under Test

Product Feature	
<b>Equipment</b>	HSDPA/HSUPA/HSPA+/UMTS quad band / GSM quad band/LTE 6 band mobile phone
<b>Brand Name</b>	ALCATEL
<b>Model Name</b>	6070O
<b>FCC ID</b>	2ACCJN008
<b>EUT supports Radios application</b>	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE/NFC/ WLAN 2.4GHz 802.11b/g/n HT20/ WLAN 5GHz 802.11a/n HT20/HT40/ WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/ Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/ Bluetooth v4.2 LE
<b>IMEI Code</b>	Conducted: 357436070401299/357436070401307 Conduction: 357436070401059/357436070401067 Radiation: 357436070401091/357436070401109
<b>HW Version</b>	PIO
<b>SW Version</b>	V4A2W
<b>EUT Stage</b>	Identical Prototype

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx/Rx Frequency Range</b>	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz
<b>Maximum Output Power to Antenna</b>	<b>&lt;5180 MHz ~ 5240 MHz&gt;</b> 802.11a : 11.38 dBm / 0.0137 W 802.11n HT20 : 10.08 dBm / 0.0102 W 802.11n HT40 : 10.22 dBm / 0.0105 W 802.11ac VHT20 : 10.10 dBm / 0.0102 W 802.11ac VHT40 : 10.22 dBm / 0.0105 W 802.11ac VHT80 : 10.04 dBm / 0.0101 W <b>&lt;5260 MHz ~ 5320 MHz&gt;</b> 802.11a : 11.17 dBm / 0.0131 W 802.11n HT20 : 9.88 dBm / 0.0097 W 802.11n HT40 : 10.03 dBm / 0.0101 W 802.11ac VHT20 : 9.90 dBm / 0.0098 W 802.11ac VHT40 : 10.05 dBm / 0.0101 W 802.11ac VHT80 : 10.12 dBm / 0.0103 W <b>&lt;5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz &gt;</b> 802.11a : 11.18 dBm / 0.0131 W 802.11n HT20 : 10.24 dBm / 0.0106 W 802.11n HT40 : 9.97 dBm / 0.0099 W 802.11ac VHT20 : 10.25 dBm / 0.0106 W 802.11ac VHT40 : 10.00 dBm / 0.0100 W 802.11ac VHT80 : 9.88 dBm / 0.0097 W
<b>99% Occupied Bandwidth</b>	<b>&lt;5180 MHz ~ 5240 MHz&gt;</b> 802.11a : 18.68 MHz 802.11n HT20 : 19.28 MHz 802.11n HT40 : 36.86 MHz 802.11ac VHT20 : 19.33 MHz 802.11ac VHT40 : 36.96 MHz 802.11ac VHT80 : 74.69 MHz <b>&lt;5260 MHz ~ 5320 MHz&gt;</b> 802.11a : 18.68 MHz 802.11n HT20 : 19.43 MHz 802.11n HT40 : 36.76 MHz 802.11ac VHT20 : 19.33 MHz 802.11ac VHT40 : 36.86 MHz 802.11ac VHT80 : 74.81 MHz <b>&lt;5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz &gt;</b> 802.11a : 18.83 MHz 802.11n HT20 : 19.33 MHz 802.11n HT40 : 36.76 MHz 802.11ac VHT20 : 19.33 MHz 802.11ac VHT40 : 36.86 MHz 802.11ac VHT80 : 74.69 MHz

<b>Antenna Type</b>	LDS + metal frame Antenna
<b>Antenna Gain</b>	5180 MHz ~ 5240 MHz: -2.00 dBi 5260 MHz ~ 5320 MHz : -1.50 dBi 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz : -2.00 dBi
<b>Type of Modulation</b>	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

## 1.5 Specification of Accessory

Specification of Accessory				
AC Adapter	<b>Brand Name</b>	ALCATEL onetouch	<b>Model Name</b>	QC10US
	<b>Power Rating</b>	I/P: 100-240Vac, 50/60Hz, 500mA, O/P: 5.0Vdc, 2A, / 9.0Vdc, 1.67A		
	<b>Manufacturer</b>	BYD	<b>P/N</b>	CBA0060AG0C1
Battery	<b>Brand Name</b>	ALCATEL onetouch	<b>Model Name</b>	TLp030F2
	<b>Power Rating</b>	3.84Vdc, 3000mAh		
	<b>Manufacturer</b>	SCUD	<b>S/N</b>	C3000022C2
USB Cable 1	<b>Brand Name</b>	N/A	<b>Model Name</b>	CDA0000043C8
	<b>Signal Line Type</b>	1.00m shielded without core		
	<b>Manufacturer</b>	PUAN	<b>P/N</b>	N/A
USB Cable 2	<b>Brand Name</b>	N/A	<b>Model Name</b>	CDA0000043C2
	<b>Signal Line Type</b>	1.00m shielded without core		
	<b>Manufacturer</b>	Shenghua	<b>P/N</b>	N/A
Earphone	<b>Brand Name</b>	N/A	<b>Model Name</b>	CCB0047A10CC CCB0047B10CC
	<b>Signal Line Type</b>	1.38m non-shielded without core		
	<b>Manufacturer</b>	Harman	<b>P/N</b>	N/A

## 1.6 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.7 Testing Location

<b>Test Site</b>	SPORTON INTERNATIONAL (KUNSHAN) INC.	
<b>Test Site Location</b>	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	TH01-KS	CO01-KS

<b>Test Site</b>	SPORTON INTERNATIONAL (SHENZHEN) INC.	
<b>Test Site Location</b>	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Registration No.</b>
	03CH03-SZ	565805

**Note:** The test site complies with ANSI C63.4 2014 requirement.

## 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.





## **2 Test Configuration of Equipment Under Test**

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

## 2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5180- 5240 MHz Band 1 (U-NII-1)	36	5180	44	5220
	<b>38</b>	<b>5190</b>	<b>46</b>	<b>5230</b>
	40	5200	48	5240
	42	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5260-5320 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	<b>54</b>	<b>5270</b>	<b>62</b>	<b>5310</b>
	56	5280	64	5320
	58	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5500-5580 MHz and 5660-5700 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	<b>102</b>	<b>5510</b>	116	5580
	104	5520	132	5660
	106	5530	<b>134</b>	<b>5670</b>
	108	5540	136	5680
	<b>110</b>	<b>5550</b>	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	144	5720	<b>142</b>	<b>5710</b>
	138	5690		

**Note:** The above Frequency and Channel in boldface were 802.11n HT40.



## 2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables.

WLAN 5GHz 802.11a Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	Data Rate	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
		6Mbps								
CH 36	5180	11.38	CH 36	11.28	11.26	11.24	11.30	11.32	11.33	11.35
CH 44	5220	11.14								
CH 48	5240	10.68								
CH 52	5260	11.17	CH 52	11.06	11.10	11.09	11.02	11.13	11.15	11.12
CH 60	5300	10.81								
CH 64	5320	10.25								
CH 100	5500	11.18	CH 100	11.04	11.07	11.11	11.01	11.10	11.17	11.14
CH 116	5580	10.72								
CH 140	5700	11.08								

WLAN 5GHz 802.11n-HT20 Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
		MCS0								
CH 36	5180	10.08	CH 36	9.92	9.94	9.96	10.05	10.04	10.01	10.07
CH 44	5220	9.84								
CH 48	5240	9.23								
CH 52	5260	9.88	CH 52	9.83	9.81	9.74	9.82	9.86	9.80	9.84
CH 60	5300	9.39								
CH 64	5320	8.76								
CH 100	5500	10.24	CH 100	10.07	10.09	10.10	10.14	10.12	10.17	10.21
CH 116	5580	9.81								
CH 140	5700	10.09								

WLAN 5GHz 802.11n-HT40 Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
		MCS0								
CH 38	5190	10.22	CH 38	10.07	10.11	10.13	10.09	10.12	10.20	10.17
CH 46	5230	9.63								
CH 54	5270	10.03	CH 54	9.90	9.89	9.91	9.83	9.87	10.01	9.97
CH 62	5310	9.15								
CH 102	5510	9.97	CH 102	9.92	9.86	9.87	9.85	9.88	9.94	9.91
CH 110	5550	9.44								
CH 134	5670	9.71								



WLAN 5GHz 802.11ac VHT20 Average Power (dBm)											
Power vs. Channel			Power vs. Data Rate								
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180	10.10	CH 36	9.99	10.02	9.96	10.03	10.09	10.08	10.04	10.00
CH 44	5220	9.86									
CH 48	5240	9.35									
CH 52	5260	9.90	CH 52	9.80	9.71	9.77	9.78	9.88	9.83	9.85	9.81
CH 60	5300	9.59									
CH 64	5320	8.86									
CH 100	5500	10.25	CH 100	10.16	10.17	10.10	10.13	10.22	10.14	10.20	10.18
CH 116	5580	9.86									
CH 140	5700	10.16									

WLAN 5GHz 802.11ac VHT40 Average Power (dBm)												
Power vs. Channel			Power vs. Data Rate									
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190	10.22	CH 38	10.10	10.13	10.09	10.16	10.14	10.20	10.18	10.11	10.17
CH 46	5230	9.70										
CH 54	5270	10.05	CH 54	9.89	9.93	9.90	9.88	9.94	10.02	10.04	9.99	10.01
CH 62	5310	9.27										
CH 102	5510	10.00	CH 102	9.84	9.86	9.89	9.88	9.90	9.96	9.98	9.94	9.92
CH 110	5550	9.57										
CH 134	5670	9.81										

WLAN 5GHz 802.11ac VHT80 Average Power (dBm)												
Power vs. Channel			Power vs. Data Rate									
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 42	5210	10.04	CH 42	9.86	9.88	9.93	9.87	9.97	9.96	9.94	9.99	10.01
CH 58	5290	10.12	CH 58	9.97	10.02	10.01	9.96	10.06	10.04	9.98	10.08	10.10
CH 106	5530	9.88	CH 106	9.77	9.73	9.75	9.78	9.83	9.81	9.77	9.86	9.85

## 2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
<b>AC Conducted Emission</b>	Mode 1 : <b>GSM850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone + USB Cable 1(Charging from Adapter)</b>
	Mode 2 : GSM850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone + USB Cable 2(Charging from Adapter)
<b>Remark:</b> The worst case of conducted emission is mode 1; only the test data of it was reported.	



Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5700MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle Channel		-	-	144

Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5700MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle Channel		-	-	144

Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5700MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle Channel		-	-	142



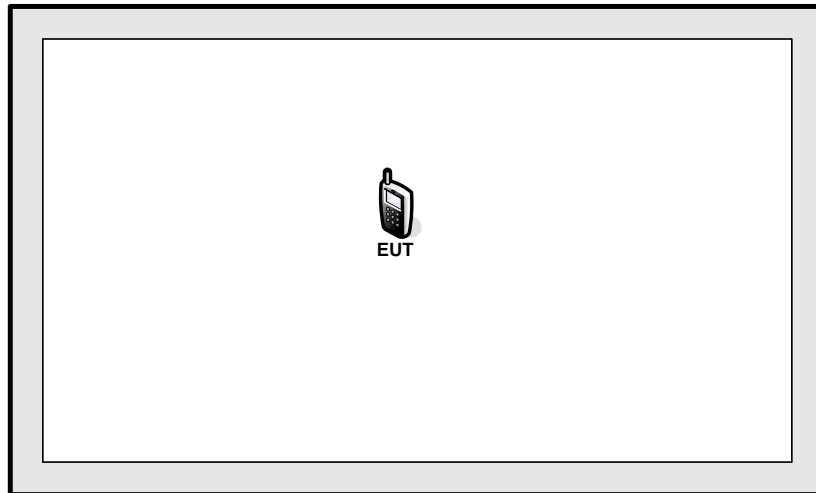
Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5700MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle Channel		-	-	144

Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5700MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle Channel		-	-	142

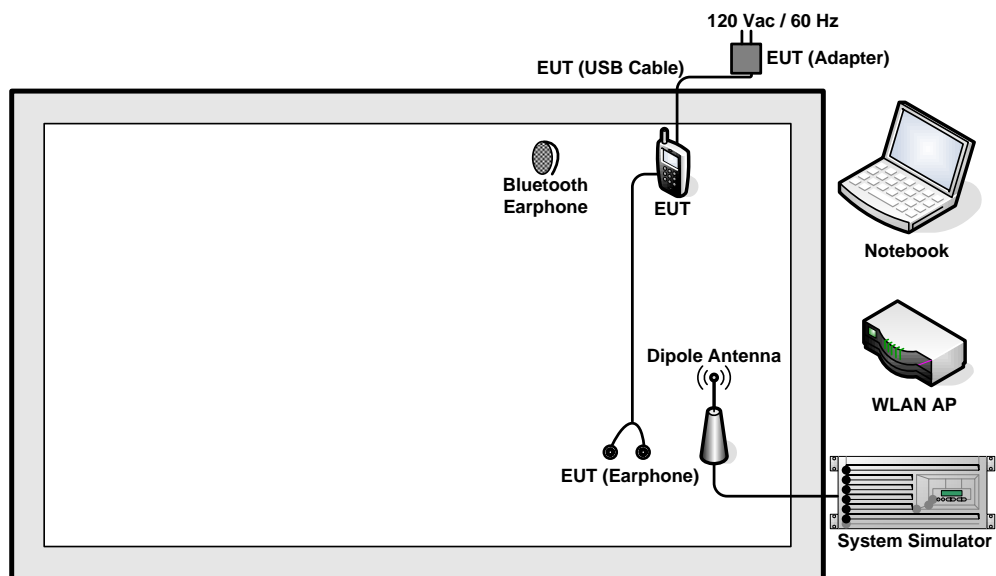
Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5700MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	-
M	Middle	42	58	106
H	High	-	-	-
Straddle Channel		-	-	138

## 2.4 Connection Diagram of Test System

### < Radiated Emission Mode >



### < AC Conducted Emission Mode >





## 2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
2.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
3.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH 102	PYAHS-107W	N/A	N/A
5.	DC Power Supply	GW INSTEK	GPD-2303S	N/A	N/A	Unshielded, 1.8 m

## 2.6 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the Notebook under large package sizes transmission.

## 2.7 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss.

*Offset = RF cable loss.*

Following shows an offset computation example with cable loss 7.0 dB.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 7.0 \text{ (dB)}\end{aligned}$$

### 3 Test Result

#### 3.1 26dB & 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, U-NII procedures were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

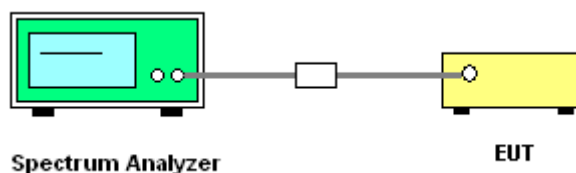
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW)  $\geq 3 * \text{RBW}$ .
8. Measure and record the results in the test report.

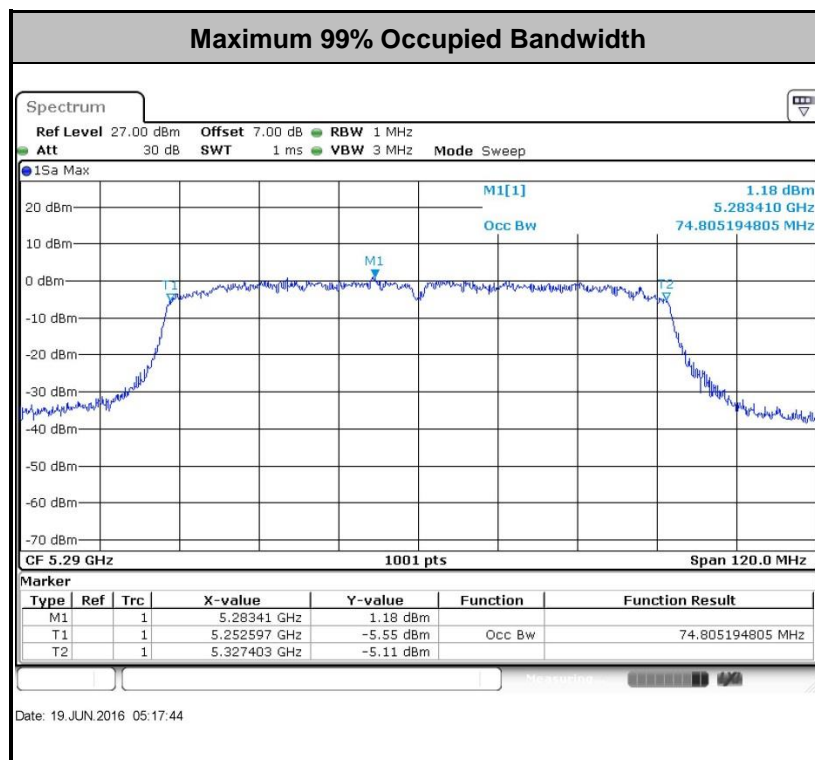
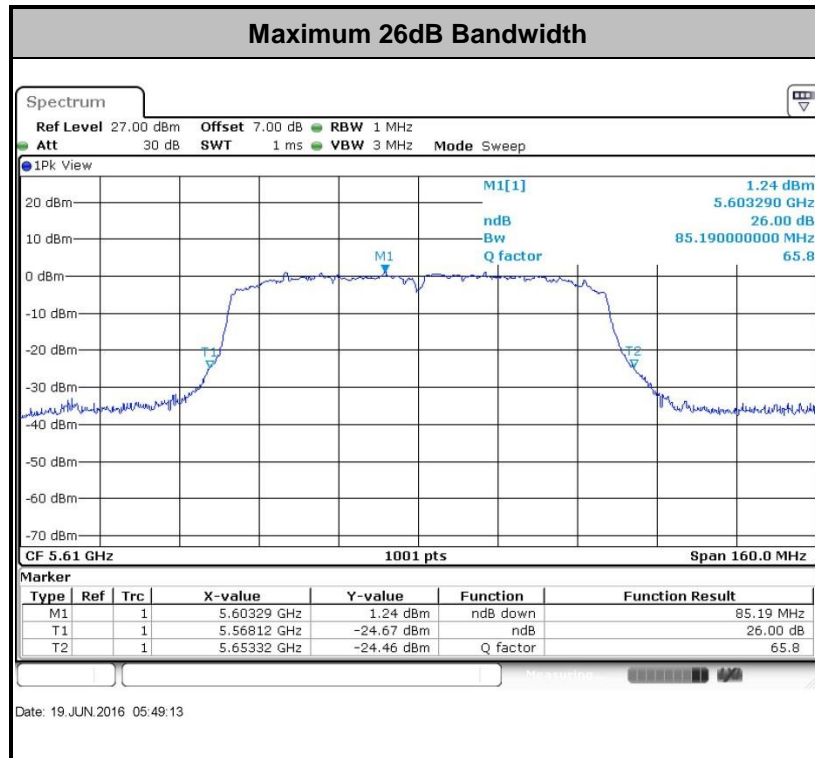
##### 3.1.4 Test Setup





### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth Plots

Please refer to Appendix A.



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



## **3.2 Maximum Conducted Output Power Measurement**

### **3.2.1 Limit of Maximum Conducted Output Power**

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm  $10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

### **3.2.2 Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.

Method PM (Measurement using an RF average power meter):

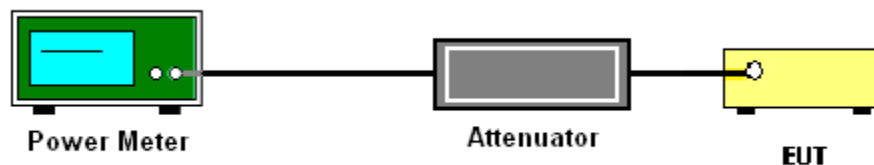
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where  $x$  is the duty cycle.

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.

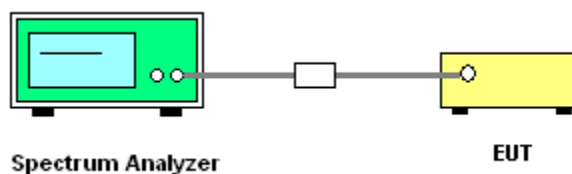
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

### 3.2.4 Test Setup

For normal channel:



For straddle channel:





### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

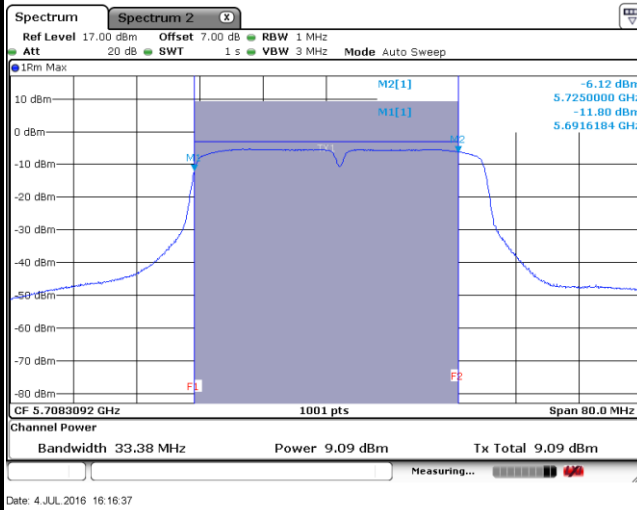




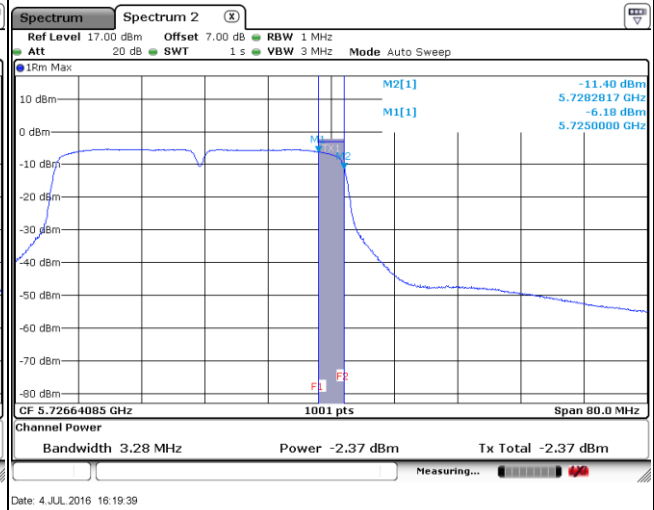
## Maximum Straddle Channel Power

## 802.11n-HT40

## NII-2C Band

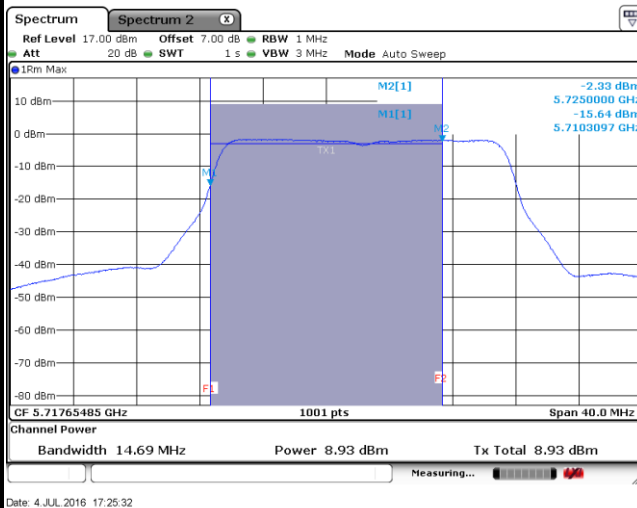


## NII-3 Band

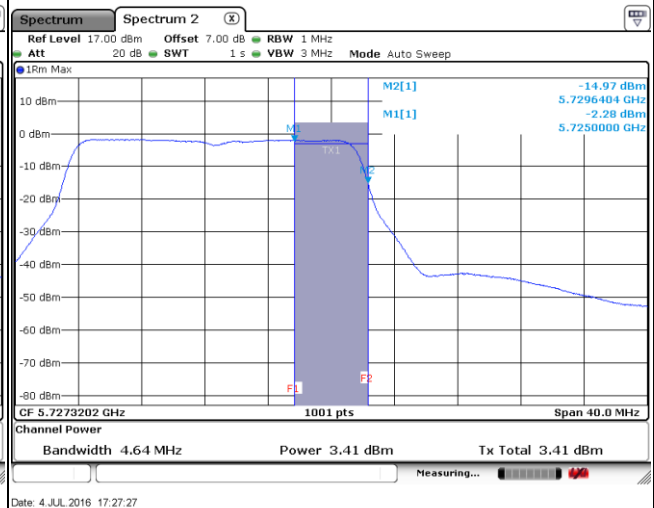


## 802.11ac VHT20

## NII-2C Band



## NII-3 Band



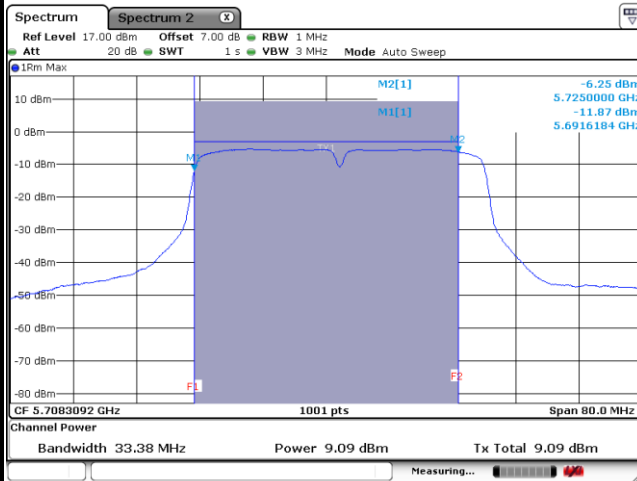




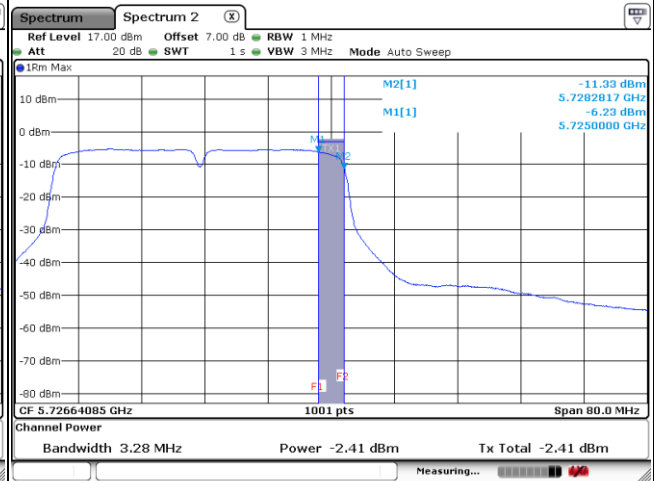
## Maximum Straddle Channel Power

## 802.11ac VHT40

## NII-2C Band

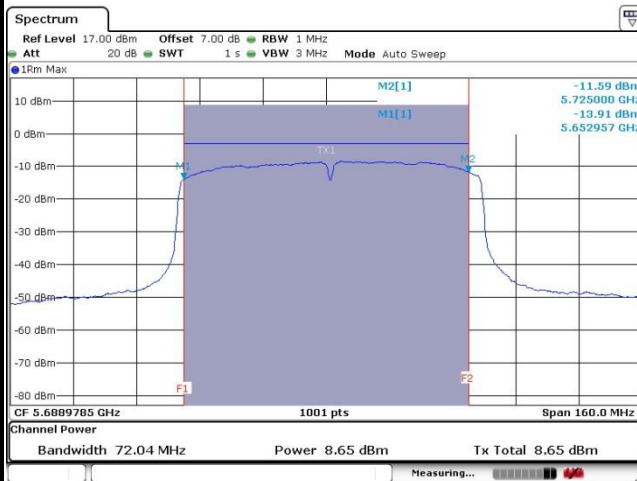


## NII-3 Band

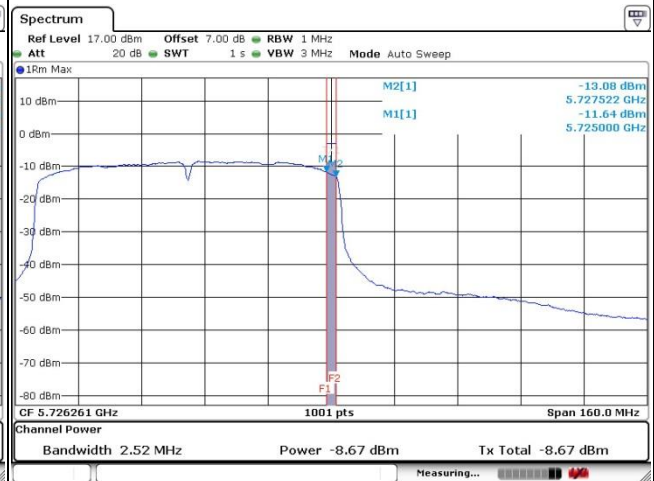


## 802.11ac VHT80

## NII-2C Band



## NII-3 Band





### **3.3 Power Spectral Density Measurement**

#### **3.3.1 Limit of Power Spectral Density**

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **3.3.2 Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.

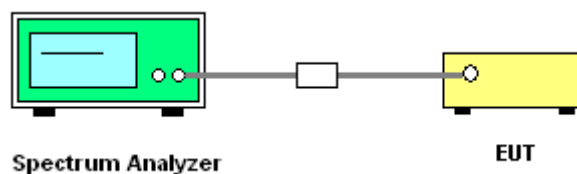
Section F) Maximum power spectral density.

#### # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

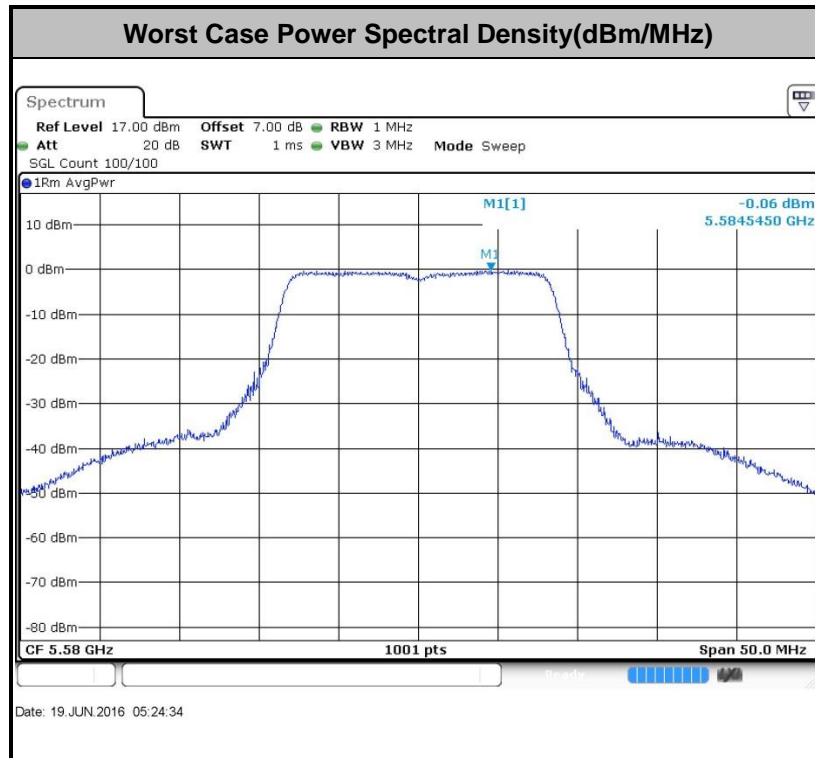
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
  - Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging mode.
  - Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



**Note:** Average Power Density (dB) = Measured value+ Duty Factor

### 3.4 Unwanted Radiated Emission Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

#### 3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

**Note:** The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \quad \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dB $\mu$ V/m)
-17	78.3
- 27	68.3

- (3) KDB789033 D02 v01r02 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

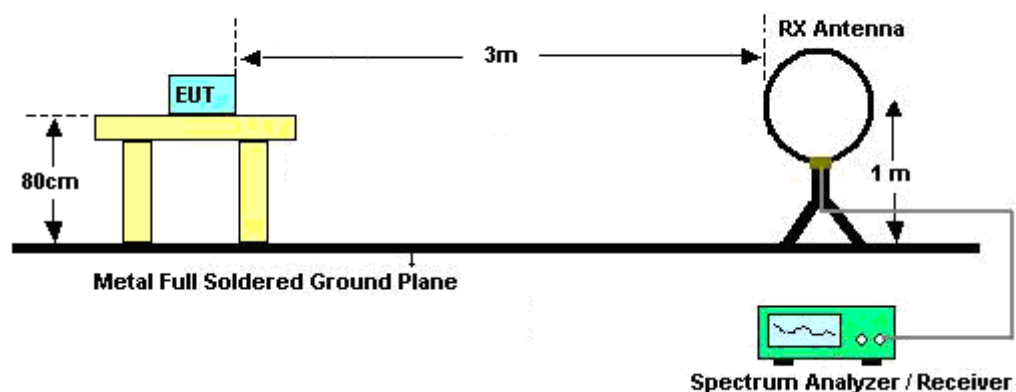
### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

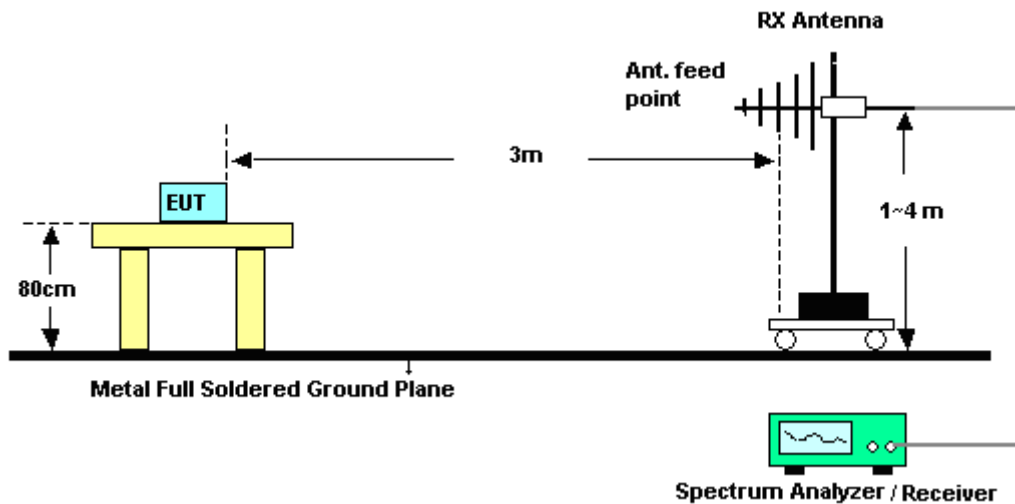
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

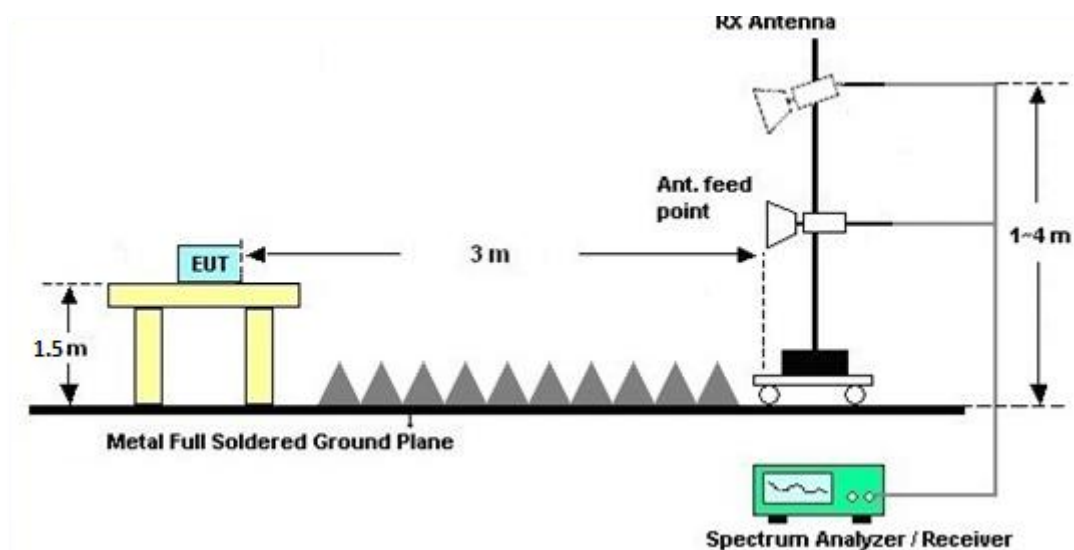
**For radiated emissions below 30MHz**



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



### 3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.





### **3.4.6 Test Result of Radiated Band Edges**

Please refer to Appendix B.

### **3.4.7 Duty Cycle**

Please refer to Appendix C.

### **3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)**

Please refer to Appendix B.

### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

For equipment 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.

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

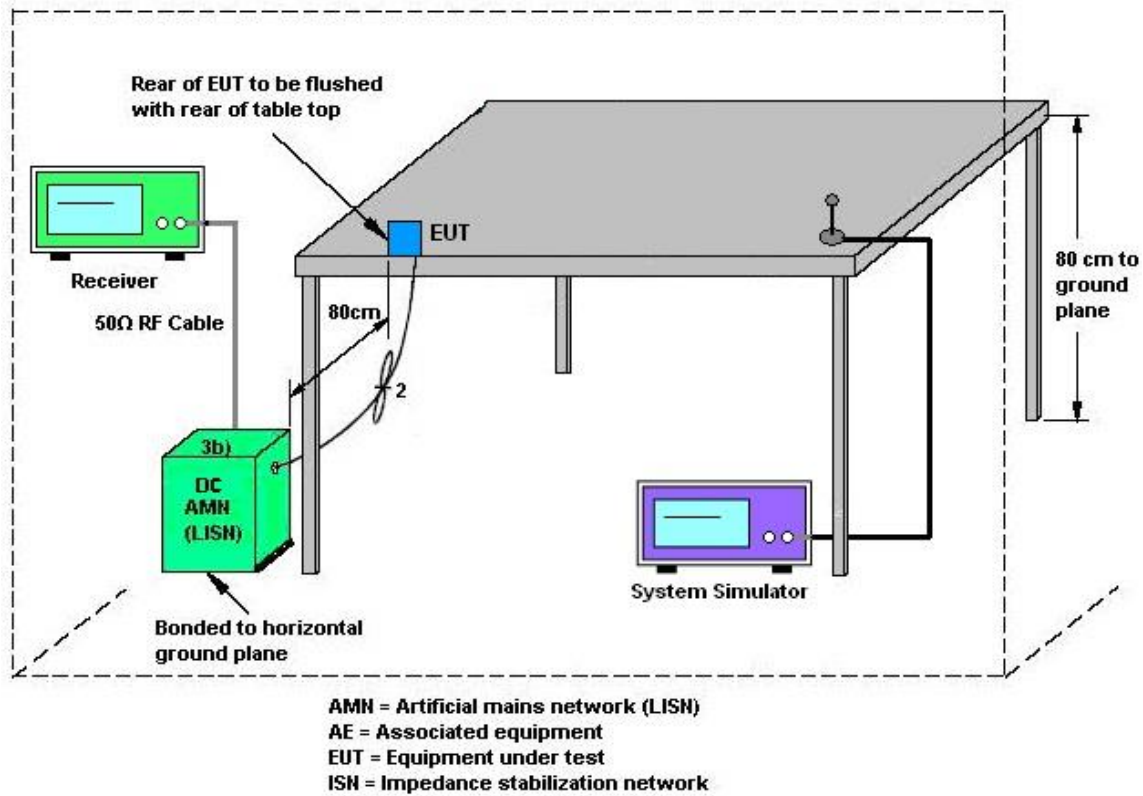
#### 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

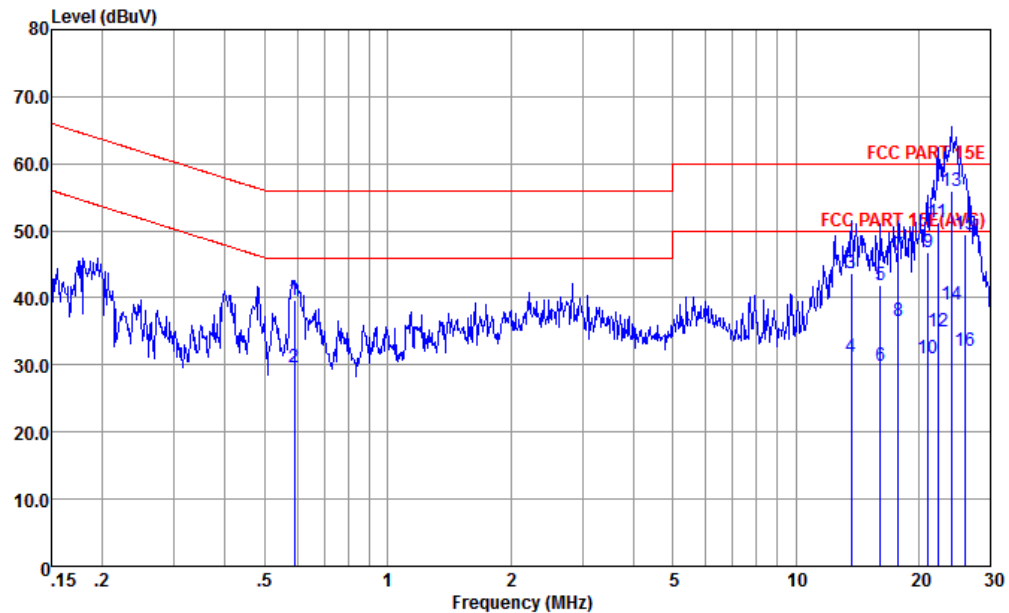
### 3.5.4 Test Setup





## 3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	44~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone + USB Cable 1(Charging from Adapter)		



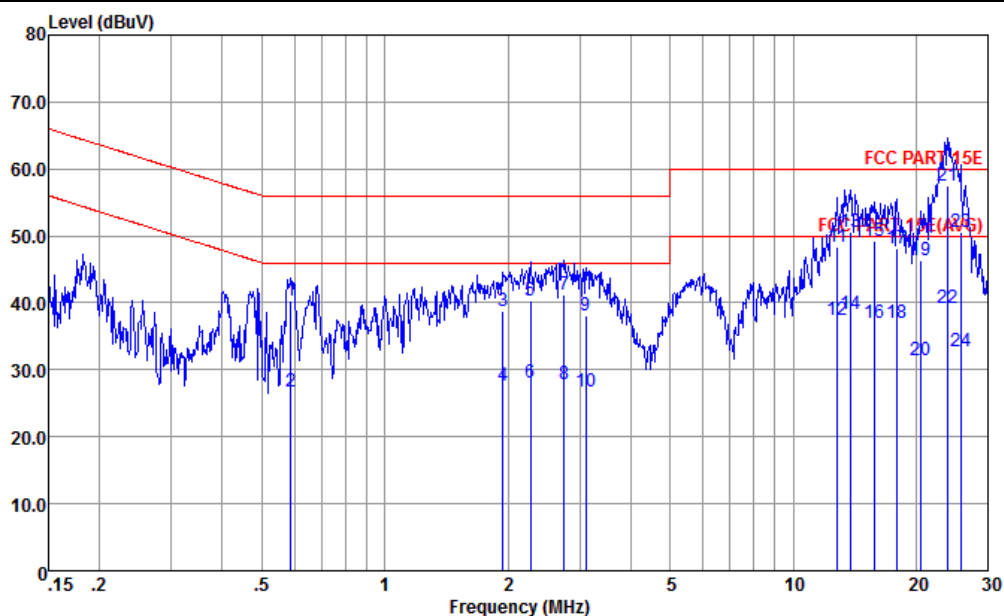
Site : CO01-KS  
Condition : FCC PART 15E LISN-L-20151024 LINE

mode : Mode 1  
: 357436070401059 #17

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.59	39.69	-16.31	56.00	29.30	0.23	10.16	QP
2	0.59	29.59	-16.41	46.00	19.20	0.23	10.16	Average
3	13.70	43.71	-16.29	60.00	33.09	0.26	10.36	QP
4	13.70	31.21	-18.79	50.00	20.59	0.26	10.36	Average
5	16.14	41.98	-18.02	60.00	31.30	0.26	10.42	QP
6	16.14	29.88	-20.12	50.00	19.20	0.26	10.42	Average
7	17.85	46.34	-13.66	60.00	35.60	0.27	10.47	QP
8	17.85	36.64	-13.36	50.00	25.90	0.27	10.47	Average
9	21.15	46.73	-13.27	60.00	35.90	0.26	10.57	QP
10	21.15	31.03	-18.97	50.00	20.20	0.26	10.57	Average
11	22.30	51.35	-8.65	60.00	40.49	0.25	10.61	QP
12	22.30	34.95	-15.05	50.00	24.09	0.25	10.61	Average
13 *	24.01	55.99	-4.01	60.00	45.10	0.23	10.66	QP
14	24.01	39.09	-10.91	50.00	28.20	0.23	10.66	Average
15	26.00	49.54	-10.46	60.00	38.60	0.22	10.72	QP
16	26.00	32.04	-17.96	50.00	21.10	0.22	10.72	Average



Test Mode :	Mode 1	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	44~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone + USB Cable 1(Charging from Adapter)		



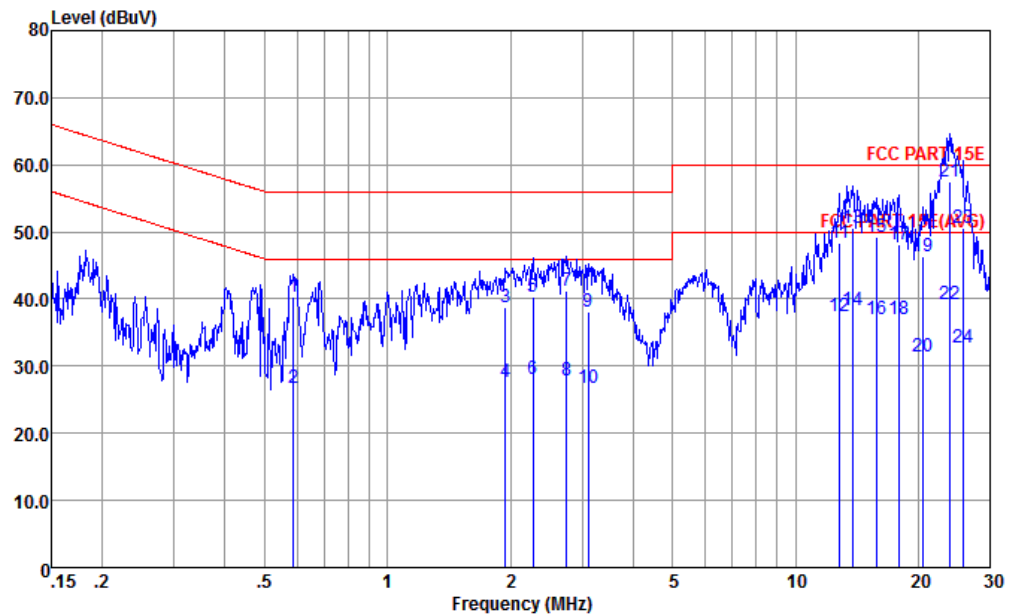
Site : CO01-KS  
Condition : FCC PART 15E LISN-N-20151024 NEUTRAL

mode : Mode 1  
: 357436070401059 #17

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.59	40.29	-15.71	56.00	29.80	0.33	10.16	QP
2	0.59	26.79	-19.21	46.00	16.30	0.33	10.16	Average
3	1.95	38.82	-17.18	56.00	28.30	0.38	10.14	QP
4	1.95	27.72	-18.28	46.00	17.20	0.38	10.14	Average
5	2.27	40.32	-15.68	56.00	29.79	0.38	10.15	QP
6	2.27	28.12	-17.88	46.00	17.59	0.38	10.15	Average
7	2.75	41.32	-14.68	56.00	30.80	0.37	10.15	QP
8	2.75	27.82	-18.18	46.00	17.30	0.37	10.15	Average
9	3.11	38.03	-17.97	56.00	27.50	0.37	10.16	QP
10	3.11	26.83	-19.17	46.00	16.30	0.37	10.16	Average
11	12.85	48.41	-11.59	60.00	37.80	0.27	10.34	QP
12	12.85	37.51	-12.49	50.00	26.90	0.27	10.34	Average
13	13.77	50.53	-9.47	60.00	39.90	0.27	10.36	QP
14	13.77	38.33	-11.67	50.00	27.70	0.27	10.36	Average
15	15.80	49.28	-10.72	60.00	38.60	0.27	10.41	QP
16	15.80	36.98	-13.02	50.00	26.30	0.27	10.41	Average
17	17.94	48.03	-11.97	60.00	37.30	0.26	10.47	QP



Test Mode :	Mode 1	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	44~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone + USB Cable 1(Charging from Adapter)		



Site : CO01-KS  
Condition : FCC PART 15E LISN-N-20151024 NEUTRAL

mode : Mode 1  
: 357436070401059 #17

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
18	17.94	37.03	-12.97	50.00	26.30	0.26	10.47	Average
19	20.59	46.30	-13.70	60.00	35.50	0.25	10.55	QP
20	20.59	31.40	-18.60	50.00	20.60	0.25	10.55	Average
21 *	23.89	57.50	-2.50	60.00	46.61	0.24	10.65	QP
22	23.89	39.20	-10.80	50.00	28.31	0.24	10.65	Average
23	25.73	50.55	-9.45	60.00	39.60	0.24	10.71	QP
24	25.73	32.85	-17.15	50.00	21.90	0.24	10.71	Average

## 3.6 Frequency Stability Measurement

### 3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

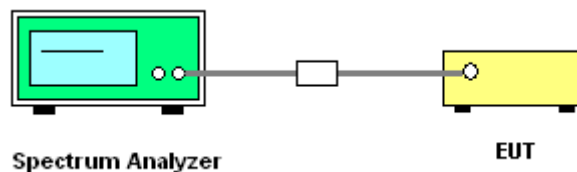
### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

### 3.6.4 Test Setup



### 3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

## **3.7 Automatically Discontinue Transmission**

### **3.7.1 Limit of Automatically Discontinue Transmission**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

### **3.7.2 Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

### **3.7.3 Test Result of Automatically Discontinue Transmission**

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.





## **3.8 Antenna Requirements**

### **3.8.1 Standard Applicable**

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **3.8.2 Antenna Anti-Replacement Construction**

Non-standard antenna connector is used.

### **3.8.3 Antenna Gain**

The antenna gain is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Sep. 10, 2015	Jun. 19, 2016~ Jul. 04, 2016	Sep. 09, 2016	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 20, 2016	Jun. 19, 2016~ Jul. 04, 2016	Jan. 19, 2017	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 20, 2016	Jun. 19, 2016~ Jul. 04, 2016	Jan. 19, 2017	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 24, 2015	Jun. 19, 2016~ Jul. 04, 2016	Oct. 23, 2016	Conducted (TH01-KS)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	May 07, 2016	Jun. 17, 2016~ Jul. 04, 2016	May 06, 2017	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	May 07, 2016	Jun. 17, 2016~ Jul. 04, 2016	May 06, 2017	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 07, 2016	Jun. 17, 2016~ Jul. 04, 2016	May 06, 2017	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	May 21, 2016	Jun. 17, 2016~ Jul. 04, 2016	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	May 07, 2016	Jun. 17, 2016~ Jul. 04, 2016	May 06, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 18, 2015	Jun. 17, 2016~ Jul. 04, 2016	Jul. 17, 2016	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Aug. 19, 2015	Jun. 17, 2016~ Jul. 04, 2016	Aug. 18, 2016	Radiation (03CH03-SZ)
Amplifier	PREAMPLIFIER	BPA-530	102210	0.01Hz~3000MHz	Oct. 20, 2015	Jun. 17, 2016~ Jul. 04, 2016	Oct. 19, 2016	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 20, 2015	Jun. 17, 2016~ Jul. 04, 2016	Oct. 19, 2016	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 12, 2016	Jun. 17, 2016~ Jul. 04, 2016	Jan. 11, 2017	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jun. 17, 2016~ Jul. 04, 2016	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 17, 2016~ Jul. 04, 2016	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 17, 2016~ Jul. 04, 2016	NCR	Radiation (03CH03-SZ)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 10, 2015	Jul. 01, 2016	Sep. 09, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	Jul. 01, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	Jul. 01, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	Jul. 01, 2016	Oct. 23, 2016	Conduction (CO01-KS)

NCR: No Calibration Required

## 5 Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.3dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0dB
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### Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.8dB
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### Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0dB
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## **Appendix A. Conducted Test Results**

Test Engineer:	Ivan Wang	Temperature:	24~25	°C
Test Date:	2016/6/19 ~ 2016/7/4	Relative Humidity:	54~55	%

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band I										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	-	-
11a	6Mbps	1	36	5180	18.53	23.83	-	22.68	-	-
11a	6Mbps	1	44	5220	18.68	23.78	-	22.71	-	-
11a	6Mbps	1	48	5240	18.53	23.58	-	22.68	-	-
HT20	MCS0	1	36	5180	19.28	23.78	-	22.85	-	-
HT20	MCS0	1	44	5220	19.23	23.93	-	22.84	-	-
HT20	MCS0	1	48	5240	19.28	23.83	-	22.85	-	-
HT40	MCS0	1	38	5190	36.86	44.87	-	23.01	-	-
HT40	MCS0	1	46	5230	36.56	44.42	-	23.01	-	-
VHT20	MCS0	1	36	5180	19.28	23.88	-	22.85	-	-
VHT20	MCS0	1	44	5220	19.28	24.13	-	22.85	-	-
VHT20	MCS0	1	48	5240	19.33	24.13	-	22.86	-	-
VHT40	MCS0	1	38	5190	36.96	44.60	-	23.01	-	-
VHT40	MCS0	1	46	5230	36.76	44.87	-	23.01	-	-
VHT80	MCS0	1	42	5210	74.69	84.24	-	23.01	-	-

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band I										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.60	11.38	24.00	-2.00	-	Pass
11a	6Mbps	1	44	5220	0.60	11.14	24.00	-2.00		Pass
11a	6Mbps	1	48	5240	0.60	10.68	24.00	-2.00		Pass
HT20	MCS0	1	36	5180	0.80	10.08	24.00	-2.00		Pass
HT20	MCS0	1	44	5220	0.80	9.84	24.00	-2.00		Pass
HT20	MCS0	1	48	5240	0.80	9.23	24.00	-2.00		Pass
HT40	MCS0	1	38	5190	1.50	10.22	24.00	-2.00		Pass
HT40	MCS0	1	46	5230	1.50	9.63	24.00	-2.00		Pass
VHT20	MCS0	1	36	5180	0.84	10.10	24.00	-2.00		Pass
VHT20	MCS0	1	44	5220	0.84	9.86	24.00	-2.00		Pass
VHT20	MCS0	1	48	5240	0.84	9.35	24.00	-2.00		Pass
VHT40	MCS0	1	38	5190	1.49	10.22	24.00	-2.00		Pass
VHT40	MCS0	1	46	5230	1.49	9.70	24.00	-2.00		Pass
VHT80	MCS0	1	42	5210	2.57	10.04	24.00	-2.00		Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.60	-0.28	11.00	-2.00	-	Pass
11a	6Mbps	1	44	5220	0.60	0.07	11.00	-2.00		Pass
11a	6Mbps	1	48	5240	0.60	-0.46	11.00	-2.00		Pass
HT20	MCS0	1	36	5180	0.80	-1.66	11.00	-2.00		Pass
HT20	MCS0	1	44	5220	0.80	-1.36	11.00	-2.00		Pass
HT20	MCS0	1	48	5240	0.80	-1.96	11.00	-2.00		Pass
HT40	MCS0	1	38	5190	1.50	-4.28	11.00	-2.00		Pass
HT40	MCS0	1	46	5230	1.50	-4.44	11.00	-2.00		Pass
VHT20	MCS0	1	36	5180	0.84	-1.75	11.00	-2.00		Pass
VHT20	MCS0	1	44	5220	0.84	-1.62	11.00	-2.00		Pass
VHT20	MCS0	1	48	5240	0.84	-2.02	11.00	-2.00		Pass
VHT40	MCS0	1	38	5190	1.49	-4.40	11.00	-2.00		Pass
VHT40	MCS0	1	46	5230	1.49	-4.48	11.00	-2.00		Pass
VHT80	MCS0	1	42	5210	2.57	-6.68	11.00	-2.00		Pass



**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	18.68	23.88	23.71	29.71	23.98	-
11a	6M bps	1	60	5300	18.58	24.13	23.69	29.69	23.98	-
11a	6M bps	1	64	5320	18.53	23.78	23.68	29.68	23.98	-
HT20	MCS 0	1	52	5260	19.43	24.08	23.88	29.88	23.98	-
HT20	MCS 0	1	60	5300	19.28	23.88	23.85	29.85	23.98	-
HT20	MCS 0	1	64	5320	19.23	23.93	23.84	29.84	23.98	-
HT40	MCS 0	1	54	5270	36.76	44.60	23.98	30.00	23.98	-
HT40	MCS 0	1	62	5310	36.66	45.14	23.98	30.00	23.98	-
VHT20	MCS 0	1	52	5260	19.33	24.08	23.86	29.86	23.98	-
VHT20	MCS 0	1	60	5300	19.33	24.08	23.86	29.86	23.98	-
VHT20	MCS 0	1	64	5320	19.28	24.08	23.85	29.85	23.98	-
VHT40	MCS 0	1	54	5270	36.86	44.78	23.98	30.00	23.98	-
VHT40	MCS 0	1	62	5310	36.86	44.96	23.98	30.00	23.98	-
VHT80	MCS 0	1	58	5290	74.81	82.80	23.98	30.00	23.98	-

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	-	Pass/Fail
11a	6M bps	1	52	5260	0.60	11.17	23.98	-1.50	-	Pass
11a	6M bps	1	60	5300	0.60	10.81	23.98	-1.50		Pass
11a	6M bps	1	64	5320	0.60	10.25	23.98	-1.50		Pass
HT20	MCS 0	1	52	5260	0.80	9.88	23.98	-1.50		Pass
HT20	MCS 0	1	60	5300	0.80	9.39	23.98	-1.50		Pass
HT20	MCS 0	1	64	5320	0.80	8.76	23.98	-1.50		Pass
HT40	MCS 0	1	54	5270	1.50	10.03	23.98	-1.50		Pass
HT40	MCS 0	1	62	5310	1.50	9.15	23.98	-1.50		Pass
VHT20	MCS 0	1	52	5260	0.84	9.90	23.98	-1.50		Pass
VHT20	MCS 0	1	60	5300	0.84	9.59	23.98	-1.50		Pass
VHT20	MCS 0	1	64	5320	0.84	8.86	23.98	-1.50		Pass
VHT40	MCS 0	1	54	5270	1.49	10.05	23.98	-1.50		Pass
VHT40	MCS 0	1	62	5310	1.49	9.27	23.98	-1.50		Pass
VHT80	MCS 0	1	58	5290	2.57	10.12	23.98	-1.50		Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6M bps	1	52	5260	0.60	-0.45	11.00	-1.50	-	Pass
11a	6M bps	1	60	5300	0.60	-0.58	11.00	-1.50		Pass
11a	6M bps	1	64	5320	0.60	-1.16	11.00	-1.50		Pass
HT20	MCS 0	1	52	5260	0.80	-1.88	11.00	-1.50		Pass
HT20	MCS 0	1	60	5300	0.80	-2.49	11.00	-1.50		Pass
HT20	MCS 0	1	64	5320	0.80	-2.42	11.00	-1.50		Pass
HT40	MCS 0	1	54	5270	1.50	-4.82	11.00	-1.50		Pass
HT40	MCS 0	1	62	5310	1.50	-5.07	11.00	-1.50		Pass
VHT20	MCS 0	1	52	5260	0.84	-1.70	11.00	-1.50		Pass
VHT20	MCS 0	1	60	5300	0.84	-1.88	11.00	-1.50		Pass
VHT20	MCS 0	1	64	5320	0.84	-2.65	11.00	-1.50		Pass
VHT40	MCS 0	1	54	5270	1.49	-4.54	11.00	-1.50		Pass
VHT40	MCS 0	1	62	5310	1.49	-5.21	11.00	-1.50		Pass
VHT80	MCS 0	1	58	5290	2.57	-6.90	11.00	-1.50		Pass

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	100	5500	18.83	23.93	23.75	29.75	23.98	-
11a	6M bps	1	116	5580	18.58	23.68	23.69	29.69	23.98	-
11a	6M bps	1	140	5700	18.53	23.73	23.68	29.68	23.98	-
HT20	MCS 0	1	100	5500	19.33	23.88	23.86	29.86	23.98	-
HT20	MCS 0	1	116	5580	19.33	23.98	23.86	29.86	23.98	-
HT20	MCS 0	1	140	5700	19.33	23.93	23.86	29.86	23.98	-
HT40	MCS 0	1	102	5510	36.66	44.96	23.98	30.00	23.98	-
HT40	MCS 0	1	110	5550	36.76	45.32	23.98	30.00	23.98	-
HT40	MCS 0	1	134	5670	36.76	44.60	23.98	30.00	23.98	-
VHT20	MCS 0	1	100	5500	19.28	23.98	23.85	29.85	23.98	-
VHT20	MCS 0	1	116	5580	19.33	24.03	23.86	29.86	23.98	-
VHT20	MCS 0	1	140	5700	19.18	24.08	23.83	29.83	23.98	-
VHT40	MCS 0	1	102	5510	36.86	44.60	23.98	30.00	23.98	-
VHT40	MCS 0	1	110	5550	36.86	44.87	23.98	30.00	23.98	-
VHT40	MCS 0	1	134	5670	36.86	45.32	23.98	30.00	23.98	-
VHT80	MCS 0	1	106	5530	74.69	84.24	23.98	30.00	23.98	-

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	-	Pass/Fail
11a	6M bps	1	100	5500	0.60	11.18	23.98	-2.00	-	Pass
11a	6M bps	1	116	5580	0.60	10.72	23.98	-2.00		Pass
11a	6M bps	1	140	5700	0.60	11.08	23.98	-2.00		Pass
HT20	MCS 0	1	100	5500	0.80	10.24	23.98	-2.00		Pass
HT20	MCS 0	1	116	5580	0.80	9.81	23.98	-2.00		Pass
HT20	MCS 0	1	140	5700	0.80	10.09	23.98	-2.00		Pass
HT40	MCS 0	1	102	5510	1.50	9.97	23.98	-2.00		Pass
HT40	MCS 0	1	110	5550	1.50	9.44	23.98	-2.00		Pass
HT40	MCS 0	1	134	5670	1.50	9.71	23.98	-2.00		Pass
VHT20	MCS 0	1	100	5500	0.84	10.25	23.98	-2.00		Pass
VHT20	MCS 0	1	116	5580	0.84	9.86	23.98	-2.00		Pass
VHT20	MCS 0	1	140	5700	0.84	10.16	23.98	-2.00		Pass
VHT40	MCS 0	1	102	5510	1.49	10.00	23.98	-2.00		Pass
VHT40	MCS 0	1	110	5550	1.49	9.57	23.98	-2.00		Pass
VHT40	MCS 0	1	134	5670	1.49	9.81	23.98	-2.00		Pass
VHT80	MCS 0	1	106	5530	2.57	9.88	23.98	-2.00		Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6M bps	1	100	5500	0.60	0.46	11.00	-2.00	-	Pass
11a	6M bps	1	116	5580	0.60	0.54	11.00	-2.00		Pass
11a	6M bps	1	140	5700	0.60	0.12	11.00	-2.00		Pass
HT20	MCS 0	1	100	5500	0.80	-0.40	11.00	-2.00		Pass
HT20	MCS 0	1	116	5580	0.80	-0.68	11.00	-2.00		Pass
HT20	MCS 0	1	140	5700	0.80	-0.77	11.00	-2.00		Pass
HT40	MCS 0	1	102	5510	1.50	-3.45	11.00	-2.00		Pass
HT40	MCS 0	1	110	5550	1.50	-3.58	11.00	-2.00		Pass
HT40	MCS 0	1	134	5670	1.50	-3.51	11.00	-2.00		Pass
VHT20	MCS 0	1	100	5500	0.84	-0.66	11.00	-2.00		Pass
VHT20	MCS 0	1	116	5580	0.84	-0.41	11.00	-2.00		Pass
VHT20	MCS 0	1	140	5700	0.84	-0.50	11.00	-2.00		Pass
VHT40	MCS 0	1	102	5510	1.49	-3.62	11.00	-2.00		Pass
VHT40	MCS 0	1	110	5550	1.49	-3.78	11.00	-2.00		Pass
VHT40	MCS 0	1	134	5670	1.49	-3.80	11.00	-2.00		Pass
VHT80	MCS 0	1	106	5530	2.57	-6.54	11.00	-2.00		Pass

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Straddle Channel											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	Emission Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6Mbps	1	144	5720	18.63	16.34	23.93	-	-	-	-
				NII-2C	14.3407	13.172	16.888	22.20	28.20	23.28	-
				NII-3	4.2907	3.172	7.038	22.01	28.01	-	-
HT20	MCS0	1	144	5720	19.38	17.56	24.03	-	-	-	-
				NII-2C	14.6903	13.771	17.038	22.39	28.39	23.31	-
				NII-3	4.6903	3.791	6.988	22.79	28.79	-	-
HT40	MCS0	1	142	5710	36.66	35.17	45.05	-	-	-	-
				NII-2C	33.3816	32.582	37.657	23.98	30.00	23.98	-
				NII-3	3.2817	2.583	7.388	21.12	27.12	-	-
VHT20	MCS0	1	144	5720	19.33	17.58	24.08	-	-	-	-
				NII-2C	14.6903	13.791	16.988	22.40	28.40	23.30	-
				NII-3	4.6404	3.791	7.088	22.79	28.79	-	-
VHT40	MCS0	1	142	5710	36.66	35.17	45.05	-	-	-	-
				NII-2C	33.3816	32.582	37.837	23.98	30.00	23.98	-
				NII-3	3.2817	2.583	7.208	21.12	27.12	-	-
VHT80	MCS0	1	138	5690	74.57	73.85	85.04	-	-	-	-
				NII-2C	72.043	71.284	76.08	23.98	30.00	23.98	-
				NII-3	2.522	2.562	8.96	21.09	27.09	-	-

**TEST RESULTS DATA**  
**Average Power Table**

FCC Straddle Channel										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	144	5720	0.60	11.06	-	-2.00		Pass
				NII-2C	0.60	10.09	23.28	-2.00		Pass
				NII-3	0.60	4.05	30.00	-2.00		Pass
HT20	MCS0	1	144	5720	0.80	10.03	-	-2.00		Pass
				NII-2C	0.80	8.96	23.31	-2.00		Pass
				NII-3	0.80	3.42	30.00	-2.00		Pass
HT40	MCS0	1	142	5710	1.50	9.39	-	-2.00		Pass
				NII-2C	1.50	9.09	23.98	-2.00		Pass
				NII-3	1.50	-2.37	30.00	-2.00		Pass
VHT20	MCS0	1	144	5720	0.84	10.00	-	-2.00		Pass
				NII-2C	0.84	8.93	23.30	-2.00		Pass
				NII-3	0.84	3.41	30.00	-2.00		Pass
VHT40	MCS0	1	142	5710	1.49	9.39	-	-2.00		Pass
				NII-2C	1.49	9.09	23.98	-2.00		Pass
				NII-3	1.49	-2.41	30.00	-2.00		Pass
VHT80	MCS0	1	138	5690	2.57	8.73	-	-2.00		Pass
				NII-2C	2.57	8.65	23.98	-2.00		Pass
				NII-3	2.57	-8.67	30.00	-2.00		Pass



**TEST RESULTS DATA**  
**Power Spectral Density**

Straddle Channel										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	144	NII-2C	0.60	0.45	11.00	-2.00	-	Pass
				NII-3	0.60	0.45	30.00	-2.00		Pass
HT20	MCS0	1	144	NII-2C	0.80	-0.65	11.00	-2.00		Pass
				NII-3	0.80	-0.65	30.00	-2.00		Pass
HT40	MCS0	1	142	NII-2C	1.50	-3.96	11.00	-2.00		Pass
				NII-3	1.50	-3.96	30.00	-2.00		Pass
VHT20	MCS0	1	144	NII-2C	0.84	-0.50	11.00	-2.00		Pass
				NII-3	0.84	-0.50	30.00	-2.00		Pass
VHT40	MCS0	1	142	NII-2C	1.49	-4.04	11.00	-2.00		Pass
				NII-3	1.49	-4.04	30.00	-2.00		Pass
VHT80	MCS0	1	138	NII-2C	2.57	-6.30	11.00	-2.00		Pass
				NII-3	2.57	-6.30	30.00	-2.00		Pass

**TEST RESULTS DATA**  
**Frequency Stability**

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.5	-
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.4	-
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.8	-
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	-30	3.8	-
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	50	3.8	-

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.5	-
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	4.4	-
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.8	-
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	-30	3.8	-
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	50	3.8	-

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.5	-
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	4.4	-
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.8	-
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	-30	3.8	-
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	50	3.8	-



## Appendix B. Radiated Spurious Emission

### Band 1 - 5150~5250MHz

#### WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 36 5180MHz		5149.7	49.62	-24.38	74	44.53	31.5	7.26	33.67	150	30	P	H
		5149.85	40.15	-13.85	54	35.06	31.5	7.26	33.67	150	30	A	H
	*	5180	95.93	-	-	90.66	31.55	7.37	33.65	150	30	P	H
	*	5180	89.77	-	-	84.5	31.55	7.37	33.65	150	30	A	H
		5148.5	52.27	-21.73	74	47.18	31.5	7.26	33.67	152	23	P	V
		5149.85	41.5	-12.5	54	36.41	31.5	7.26	33.67	152	23	A	V
	*	5180	99.47	-	-	94.2	31.55	7.37	33.65	152	23	P	V
	*	5180	90.17	-	-	84.9	31.55	7.37	33.65	152	23	A	V
802.11a CH 44 5220MHz		5016.5	46.64	-27.36	74	41.93	31.31	7.15	33.75	150	46	P	H
		5124.95	36.78	-17.22	54	31.83	31.48	7.16	33.69	150	46	A	H
	*	5220	96.46	-	-	91.13	31.6	7.37	33.64	150	46	P	H
	*	5220	89.54	-	-	84.21	31.6	7.37	33.64	150	46	A	H
		5373.98	46.46	-27.54	74	40.78	31.81	7.39	33.52	150	46	P	H
		5454.94	36.81	-17.19	54	30.88	31.93	7.47	33.47	150	46	A	H
		5007.05	47.34	-26.66	74	42.65	31.31	7.15	33.77	151	22	P	V
		5148.8	36.89	-17.11	54	31.8	31.5	7.26	33.67	151	22	A	V
	*	5220	100.04	-	-	94.71	31.6	7.37	33.64	151	22	P	V
	*	5220	93.68	-	-	88.35	31.6	7.37	33.64	151	22	A	V
		5406.32	47.15	-26.85	74	41.36	31.86	7.43	33.5	151	22	P	V
		5406.54	37.55	-16.45	54	31.76	31.86	7.43	33.5	151	22	A	V



<b>802.11a</b> <b>CH 48</b> <b>5240MHz</b>		5050.25	46.77	-27.23	74	42	31.36	7.15	33.74	162	24	P	H
		5070.2	36.81	-17.19	54	32	31.38	7.15	33.72	162	24	A	H
	*	5240	95.64	-	-	90.27	31.62	7.37	33.62	162	24	P	H
	*	5240	89.13	-	-	83.76	31.62	7.37	33.62	162	24	A	H
		5456.15	46.33	-27.67	74	40.4	31.93	7.47	33.47	162	24	P	H
		5437.78	36.87	-17.13	54	31.01	31.91	7.43	33.48	162	24	A	H
		5032.4	46.36	-27.64	74	41.62	31.34	7.15	33.75	150	24	P	V
		5148.05	36.94	-17.06	54	31.85	31.5	7.26	33.67	150	24	A	V
	*	5240	101.32	-	-	95.95	31.62	7.37	33.62	150	24	P	V
	*	5240	94.28	-	-	88.91	31.62	7.37	33.62	150	24	A	V
		5436.35	46.59	-27.41	74	40.73	31.91	7.43	33.48	150	24	P	V
		5435.03	38.11	-15.89	54	32.25	31.91	7.43	33.48	150	24	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11a CH 36 5180MHz		10360	49.55	-24.45	74	59.35	38.62	10.58	59	250	0	P	H
		15540	49.97	-24.03	74	58.08	38.54	13.04	59.69	150	0	P	H
		10360	50	-24	74	59.8	38.62	10.58	59	250	0	P	V
		15540	49.89	-24.11	74	58	38.54	13.04	59.69	150	0	P	V
802.11a CH 44 5220MHz		10440	48.97	-25.03	74	58.69	38.72	10.58	59.02	250	0	P	H
		15660	49.94	-24.06	74	58.37	38.17	13.15	59.75	150	0	P	H
		10440	49.81	-24.19	74	59.53	38.72	10.58	59.02	250	0	P	V
		15660	50.35	-23.65	74	58.78	38.17	13.15	59.75	150	0	P	V
802.11a CH 48 5240MHz		10480	48.8	-25.2	74	58.45	38.79	10.59	59.03	250	0	P	H
		15720	50.09	-23.91	74	58.69	37.96	13.23	59.79	150	0	P	H
		10480	48.86	-25.14	74	58.51	38.79	10.59	59.03	250	0	P	V
		15720	49.9	-24.1	74	58.5	37.96	13.23	59.79	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20 CH 36 5180MHz		5044.55	47.3	-26.7	74	42.53	31.36	7.15	33.74	151	31	P	H
		5128.4	38.04	-15.96	54	32.99	31.48	7.26	33.69	151	31	A	H
	*	5180	92.25	-	-	86.98	31.55	7.37	33.65	151	31	P	H
	*	5180	85.07	-	-	79.8	31.55	7.37	33.65	151	31	A	H
		5009.75	46.37	-27.63	74	41.68	31.31	7.15	33.77	153	23	P	V
		5127.95	38.6	-15.4	54	33.55	31.48	7.26	33.69	153	23	A	V
	*	5180	95.81	-	-	90.54	31.55	7.37	33.65	153	23	P	V
	*	5180	88.47	-	-	83.2	31.55	7.37	33.65	153	23	A	V
802.11n HT20 CH 44 5220MHz		5004.05	46.29	-27.71	74	41.61	31.31	7.14	33.77	150	50	P	H
		5092.4	37.44	-16.56	54	32.57	31.43	7.16	33.72	150	50	A	H
	*	5220	92.87	-	-	87.54	31.6	7.37	33.64	150	50	P	H
	*	5220	85.83	-	-	80.5	31.6	7.37	33.64	150	50	A	H
		5418.97	46.5	-27.5	74	40.69	31.88	7.43	33.5	150	50	P	H
		5459.67	37.28	-16.72	54	31.35	31.93	7.47	33.47	150	50	A	H
		5079.8	47.42	-26.58	74	42.58	31.41	7.15	33.72	150	25	P	V
		5131.1	37.48	-16.52	54	32.43	31.48	7.26	33.69	150	25	A	V
	*	5220	95.85	-	-	90.52	31.6	7.37	33.64	150	25	P	V
	*	5220	88.93	-	-	83.6	31.6	7.37	33.64	150	25	A	V
		5436.68	46.09	-27.91	74	40.23	31.91	7.43	33.48	150	25	P	V
		5436.57	37.73	-16.27	54	31.87	31.91	7.43	33.48	150	25	A	V



<b>802.11n</b> <b>HT20</b> <b>CH 48</b> <b>5240MHz</b>		5130.95	47.2	-26.8	74	42.15	31.48	7.26	33.69	150	32	P	H
		5107.1	37.52	-16.48	54	32.61	31.45	7.16	33.7	150	32	A	H
	*	5240	93.03	-	-	87.66	31.62	7.37	33.62	150	32	P	H
	*	5240	86.18	-	-	80.81	31.62	7.37	33.62	150	32	A	H
		5411.27	45.82	-28.18	74	40.03	31.86	7.43	33.5	150	32	P	H
		5434.15	37.48	-16.52	54	31.62	31.91	7.43	33.48	150	32	A	H
		5113.25	46.97	-27.03	74	42.06	31.45	7.16	33.7	150	25	P	V
		5075.3	37.55	-16.45	54	32.71	31.41	7.15	33.72	150	25	A	V
	*	5240	96.34	-	-	90.97	31.62	7.37	33.62	150	25	P	V
	*	5240	89.58	-	-	84.21	31.62	7.37	33.62	150	25	A	V
		5418.75	47.25	-26.75	74	41.44	31.88	7.43	33.5	150	25	P	V
		5439.87	37.95	-16.05	54	32.09	31.91	7.43	33.48	150	25	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	48.8	-25.2	74	58.6	38.62	10.58	59	250	0	P	H
		15540	49.7	-24.3	74	57.81	38.54	13.04	59.69	150	0	P	H
		10360	48.18	-25.82	74	57.98	38.62	10.58	59	250	0	P	V
		15540	48.92	-25.08	74	57.03	38.54	13.04	59.69	150	0	P	V
802.11n HT20 CH 44 5220MHz		10440	47.86	-26.14	74	57.58	38.72	10.58	59.02	250	0	P	H
		15660	48.61	-25.39	74	57.04	38.17	13.15	59.75	150	0	P	H
		10440	48.86	-25.14	74	58.58	38.72	10.58	59.02	250	0	P	V
		15660	49.61	-24.39	74	58.04	38.17	13.15	59.75	150	0	P	V
802.11n HT20 CH 48 5240MHz		10480	48.64	-25.36	74	58.29	38.79	10.59	59.03	250	0	P	H
		15720	50.43	-23.57	74	59.03	37.96	13.23	59.79	150	0	P	H
		10480	48.92	-25.08	74	58.57	38.79	10.59	59.03	250	0	P	V
		15720	49.98	-24.02	74	58.58	37.96	13.23	59.79	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 38 5190MHz		5147.9	59.42	-14.58	74	54.33	31.5	7.26	33.67	150	22	P	H
		5150	48.33	-5.67	54	43.24	31.5	7.26	33.67	150	22	A	H
	*	5190	93.56	-	-	88.29	31.55	7.37	33.65	150	22	P	H
	*	5190	81.27	-	-	76	31.55	7.37	33.65	150	22	A	H
		5358.58	46.42	-27.58	74	40.77	31.79	7.39	33.53	150	22	A	H
		5397.52	37.4	-16.6	54	31.67	31.86	7.39	33.52	150	22	P	H
		5148.35	57.45	-16.55	74	52.36	31.5	7.26	33.67	150	12	P	V
		5150	49.89	-4.11	54	44.8	31.5	7.26	33.67	150	12	A	V
	*	5190	97.18	-	-	91.91	31.55	7.37	33.65	150	12	P	V
	*	5190	87.81	-	-	82.54	31.55	7.37	33.65	150	12	A	V
		5416.66	45.75	-28.25	74	39.94	31.88	7.43	33.5	150	12	P	V
		5385.75	37.65	-16.35	54	31.95	31.83	7.39	33.52	150	12	A	V
802.11n HT40 CH 46 5230MHz		5030.45	46.19	-27.81	74	41.45	31.34	7.15	33.75	150	21	P	H
		5128.4	37.93	-16.07	54	32.88	31.48	7.26	33.69	150	21	A	H
	*	5230	95.64	-	-	90.27	31.62	7.37	33.62	150	21	P	H
	*	5230	85.69	-	-	80.32	31.62	7.37	33.62	150	21	A	H
		5366.5	47.31	-26.69	74	41.64	31.81	7.39	33.53	150	21	P	H
		5437.78	37.73	-16.27	54	31.87	31.91	7.43	33.48	150	21	A	H
		5096.75	46.55	-27.45	74	41.66	31.43	7.16	33.7	150	14	P	V
		5127.05	38.51	-15.49	54	33.46	31.48	7.26	33.69	150	14	A	V
	*	5230	98.64	-	-	93.27	31.62	7.37	33.62	150	14	P	V
	*	5230	89.5	-	-	84.13	31.62	7.37	33.62	150	14	A	V
		5407.75	47.16	-26.84	74	41.37	31.86	7.43	33.5	150	14	P	V
		5418.42	37.94	-16.06	54	32.13	31.88	7.43	33.5	150	14	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n		10380	49.41	-24.59	74	59.19	38.65	10.58	59.01	250	0	P	H
HT40		15570	49.56	-24.44	74	57.75	38.44	13.08	59.71	150	0	P	H
CH 38		10380	49.33	-24.67	74	59.11	38.65	10.58	59.01	250	0	P	V
5190MHz		15570	49.18	-24.82	74	57.37	38.44	13.08	59.71	150	0	P	V
802.11n		10460	48.66	-25.34	74	58.36	38.74	10.59	59.03	250	0	P	H
HT40		15690	49.63	-24.37	74	58.15	38.06	13.19	59.77	150	0	P	H
CH 46		10460	50.18	-23.82	74	59.88	38.74	10.59	59.03	250	0	P	V
5230MHz		15690	49.85	-24.15	74	58.37	38.06	13.19	59.77	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT20 CH 36 5180MHz		5150	47.97	-26.03	74	42.88	31.5	7.26	33.67	150	354	P	H
		5150	40.37	-13.63	54	35.28	31.5	7.26	33.67	150	354	A	H
	*	5180	95.72	-	-	90.45	31.55	7.37	33.65	150	354	P	H
	*	5180	87.19	-	-	81.92	31.55	7.37	33.65	150	354	A	H
		5149.4	49.53	-24.47	74	44.44	31.5	7.26	33.67	150	30	P	V
		5150	41.16	-12.84	54	36.07	31.5	7.26	33.67	150	30	A	V
	*	5180	98.87	-	-	93.6	31.55	7.37	33.65	150	30	P	V
	*	5180	89.12	-	-	83.85	31.55	7.37	33.65	150	30	A	V
802.11ac VHT20 CH 44 5220MHz		5122.1	46.67	-27.33	74	41.75	31.45	7.16	33.69	150	35	P	H
		5067.5	37.61	-16.39	54	32.8	31.38	7.15	33.72	150	35	A	H
	*	5220	96.17	-	-	90.84	31.6	7.37	33.64	150	35	P	H
	*	5220	87.23	-	-	81.9	31.6	7.37	33.64	150	35	A	H
		5455.16	46.18	-27.82	74	40.25	31.93	7.47	33.47	150	35	P	H
		5403.46	37.37	-16.63	54	31.62	31.86	7.39	33.5	150	35	A	H
		5057.3	46.56	-27.44	74	41.77	31.38	7.15	33.74	150	26	P	V
		5053.55	37.61	-16.39	54	32.84	31.36	7.15	33.74	150	26	A	V
	*	5220	98.93	-	-	93.6	31.6	7.37	33.64	150	26	P	V
	*	5220	90.49	-	-	85.16	31.6	7.37	33.64	150	26	A	V
		5365.51	46.97	-27.03	74	41.3	31.81	7.39	33.53	150	26	P	V
		5409.73	38.08	-15.92	54	32.29	31.86	7.43	33.5	150	26	A	V



<b>802.11ac</b> <b>VHT20</b> <b>CH 48</b> <b>5240MHz</b>		5142.65	46.16	-27.84	74	41.09	31.5	7.26	33.69	150	356	P	H
		5055.2	37.48	-16.52	54	32.69	31.38	7.15	33.74	150	356	A	H
	*	5240	97.23	-	-	91.86	31.62	7.37	33.62	150	356	P	H
	*	5240	87.98	-	-	82.61	31.62	7.37	33.62	150	356	A	H
		5414.9	46.29	-27.71	74	40.48	31.88	7.43	33.5	150	356	P	H
		5438.44	37.41	-16.59	54	31.55	31.91	7.43	33.48	150	356	A	H
		5024.75	46.76	-27.24	74	42.02	31.34	7.15	33.75	150	26	P	V
		5054.3	37.62	-16.38	54	32.85	31.36	7.15	33.74	150	26	A	V
	*	5240	100.11	-	-	94.74	31.62	7.37	33.62	150	26	P	V
	*	5240	90.9	-	-	85.53	31.62	7.37	33.62	150	26	A	V
		5374.53	46.23	-27.77	74	40.55	31.81	7.39	33.52	150	26	P	V
		5425.9	37.97	-16.03	54	32.14	31.88	7.43	33.48	150	26	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac		10360	50.35	-23.65	74	60.66	38.62	10.07	59	250	0	P	H
VHT20		15540	49.03	-24.97	74	57.41	38.54	12.77	59.69	150	0	P	H
CH 36		10360	48.92	-25.08	74	59.23	38.62	10.07	59	250	0	P	V
5180MHz		15540	49.03	-24.97	74	57.41	38.54	12.77	59.69	150	0	P	V
802.11ac		10440	48.64	-25.36	74	58.81	38.72	10.13	59.02	250	0	P	H
VHT20		15660	49.6	-24.4	74	58.25	38.17	12.93	59.75	150	0	P	H
CH 44		10440	48.55	-25.45	74	58.72	38.72	10.13	59.02	250	0	P	V
5220MHz		15660	49.82	-24.18	74	58.47	38.17	12.93	59.75	150	0	P	V
802.11ac		10480	48.93	-25.07	74	59.02	38.79	10.15	59.03	250	0	P	H
VHT20		15720	49.57	-24.43	74	58.37	37.96	13.03	59.79	150	0	P	H
CH 48		10480	49.24	-24.76	74	59.33	38.79	10.15	59.03	250	0	P	V
5240MHz		15720	49.58	-24.42	74	58.38	37.96	13.03	59.79	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT40 CH 38 5190MHz		5148.5	48.79	-25.21	74	43.7	31.5	7.26	33.67	150	175	P	H
		5149.85	39.92	-14.08	54	34.83	31.5	7.26	33.67	150	175	A	H
	*	5190	90.12	-	-	84.85	31.55	7.37	33.65	150	175	P	H
	*	5190	80.3	-	-	75.03	31.55	7.37	33.65	150	175	A	H
		5385.53	46.38	-27.62	74	40.68	31.83	7.39	33.52	150	175	P	H
		5459.23	37.63	-16.37	54	31.7	31.93	7.47	33.47	150	175	A	H
		5149.25	48.91	-25.09	74	43.82	31.5	7.26	33.67	150	67	P	V
		5149.85	41.91	-12.09	54	36.82	31.5	7.26	33.67	150	67	A	V
	*	5190	92.73	-	-	87.46	31.55	7.37	33.65	150	67	P	V
	*	5190	82.1	-	-	76.83	31.55	7.37	33.65	150	67	A	V
		5432.28	46.72	-27.28	74	40.86	31.91	7.43	33.48	150	67	P	V
		5451.2	37.34	-16.66	54	31.41	31.93	7.47	33.47	150	67	A	V
802.11ac VHT40 CH 46 5230MHz		5126.9	47.41	-26.59	74	42.36	31.48	7.26	33.69	150	63	P	H
		5069.3	37.51	-16.49	54	32.7	31.38	7.15	33.72	150	63	A	H
	*	5230	91.36	-	-	85.99	31.62	7.37	33.62	150	63	P	H
	*	5230	82.35	-	-	76.98	31.62	7.37	33.62	150	63	A	H
		5402.47	45.92	-28.08	74	40.17	31.86	7.39	33.5	150	63	P	H
		5451.42	37.56	-16.44	54	31.63	31.93	7.47	33.47	150	63	A	H
		5109.8	46.5	-27.5	74	41.59	31.45	7.16	33.7	150	360	P	V
		5124.2	37.82	-16.18	54	32.87	31.48	7.16	33.69	150	360	A	V
	*	5230	92.89	-	-	87.52	31.62	7.37	33.62	150	360	P	V
	*	5230	83.57	-	-	78.2	31.62	7.37	33.62	150	360	A	V
		5456.04	46.24	-27.76	74	40.31	31.93	7.47	33.47	150	360	P	V
		5436.13	37.5	-16.5	54	31.64	31.91	7.43	33.48	150	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10380	48.41	-25.59	74	58.67	38.65	10.1	59.01	250	0	P	H
VHT40		15570	48.96	-25.04	74	57.41	38.44	12.82	59.71	150	0	P	H
CH 38		10380	48.52	-25.48	74	58.78	38.65	10.1	59.01	250	0	P	V
5190MHz		15570	49.16	-24.84	74	57.61	38.44	12.82	59.71	150	0	P	V
802.11ac		10460	48.49	-25.51	74	58.63	38.74	10.15	59.03	250	0	P	H
VHT40		15690	49.13	-24.87	74	57.86	38.06	12.98	59.77	150	0	P	H
CH 46		10460	47.89	-26.11	74	58.03	38.74	10.15	59.03	250	0	P	V
5230MHz		15690	49.86	-24.14	74	58.59	38.06	12.98	59.77	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
<b>802.11ac VHT80 CH 42 5210MHz</b>		5142.35	50.1	-23.9	74	45.03	31.5	7.26	33.69	150	62	P	H
		5149.25	42.61	-11.39	54	37.52	31.5	7.26	33.67	150	62	A	H
	*	5210	88.46	-	-	83.13	31.6	7.37	33.64	150	62	P	H
	*	5210	79.21	-	-	73.88	31.6	7.37	33.64	150	62	A	H
		5410.83	46.15	-27.85	74	40.36	31.86	7.43	33.5	150	62	P	H
		5448.12	38.57	-15.43	54	32.65	31.93	7.47	33.48	150	62	A	H
		5138.45	51.67	-22.33	74	46.62	31.48	7.26	33.69	150	66	P	V
		5148.95	44.16	-9.84	54	39.07	31.5	7.26	33.67	150	66	A	V
	*	5210	92.47	-	-	87.14	31.6	7.37	33.64	150	66	P	V
	*	5210	82.7	-	-	77.37	31.6	7.37	33.64	150	66	A	V
		5426.45	46.22	-27.78	74	40.39	31.88	7.43	33.48	150	66	P	V
		5429.64	38.93	-15.07	54	33.07	31.91	7.43	33.48	150	66	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10420	49.27	-24.73	74	59.01	38.69	10.58	59.01	250	0	P	H
VHT80		15630	49.53	-24.47	74	57.93	38.22	13.12	59.74	150	0	P	H
CH 42		10420	49.23	-24.77	74	58.97	38.69	10.58	59.01	250	0	P	V
5210MHz		15630	49.75	-24.25	74	58.15	38.22	13.12	59.74	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 52 5260MHz		5065.85	46.46	-27.54	74	41.67	31.38	7.15	33.74	150	30	P	H
		5112.5	36.95	-17.05	54	32.04	31.45	7.16	33.7	150	30	A	H
	*	5260	97.95	-	-	92.5	31.67	7.38	33.6	150	30	P	H
	*	5260	90.64	-	-	85.19	31.67	7.38	33.6	150	30	A	H
		5359.02	47.3	-26.7	74	41.65	31.79	7.39	33.53	150	30	P	H
		5454.94	37.14	-16.86	54	31.21	31.93	7.47	33.47	150	30	A	H
		5101.1	46.18	-27.82	74	41.29	31.43	7.16	33.7	150	25	P	V
		5059.85	36.9	-17.1	54	32.11	31.38	7.15	33.74	150	25	A	V
	*	5260	101.75	-	-	96.3	31.67	7.38	33.6	150	25	P	V
	*	5260	95.14	-	-	89.69	31.67	7.38	33.6	150	25	A	V
		5444.71	47.24	-26.76	74	41.38	31.91	7.43	33.48	150	25	P	V
		5458.57	37.91	-16.09	54	31.98	31.93	7.47	33.47	150	25	A	V
802.11a CH 60 5300MHz		5091.5	46.79	-27.21	74	41.92	31.43	7.16	33.72	152	32	P	H
		5110.55	36.83	-17.17	54	31.92	31.45	7.16	33.7	152	32	A	H
	*	5300	97.46	-	-	91.93	31.72	7.38	33.57	152	32	P	H
	*	5300	90.73	-	-	85.2	31.72	7.38	33.57	152	32	A	H
		5352.31	47.13	-26.87	74	41.48	31.79	7.39	33.53	152	32	P	H
		5352.42	39.58	-14.42	54	33.93	31.79	7.39	33.53	152	32	A	H
		5056.4	46.46	-27.54	74	41.67	31.38	7.15	33.74	150	22	P	V
		5114.15	36.88	-17.12	54	31.97	31.45	7.16	33.7	150	22	A	V
	*	5300	101.08	-	-	95.55	31.72	7.38	33.57	150	22	P	V
	*	5300	94.03	-	-	88.5	31.72	7.38	33.57	150	22	A	V
		5353.41	49	-25	74	43.35	31.79	7.39	33.53	150	22	P	V
		5352.31	42.13	-11.87	54	36.48	31.79	7.39	33.53	150	22	A	V



<b>802.11a</b> <b>CH 64</b> <b>5320MHz</b>	*	5320	97.98	-	-	92.43	31.74	7.38	33.57	150	31	P	H
	*	5320	90.95	-	-	85.4	31.74	7.38	33.57	150	31	A	H
		5352.31	50.54	-23.46	74	44.89	31.79	7.39	33.53	150	31	P	H
		5372.33	39.79	-14.21	54	34.12	31.81	7.39	33.53	150	31	A	H
	*	5320	101.25	-	-	95.7	31.74	7.38	33.57	155	314	P	V
	*	5320	94.05	-	-	88.5	31.74	7.38	33.57	155	314	A	V
		5351.1	51.93	-22.07	74	46.28	31.79	7.39	33.53	155	314	P	V
		5350.11	42.09	-11.91	54	36.44	31.79	7.39	33.53	155	314	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 2 5250~5350MHz****WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	48.72	-25.28	74	58.35	38.84	10.59	59.06	250	0	P	H
		15780	50.55	-23.45	74	59.31	37.79	13.27	59.82	150	0	P	H
		10520	49.78	-24.22	74	59.41	38.84	10.59	59.06	250	0	P	V
		15780	50.56	-23.44	74	59.32	37.79	13.27	59.82	150	0	P	V
802.11a CH 60 5300MHz		10600	49.38	-24.62	74	58.93	38.95	10.65	59.15	250	0	P	H
		15900	50.54	-22.46	74	60.62	37.42	13.38	59.88	150	0	P	H
		10600	50.04	-23.96	74	59.59	38.95	10.65	59.15	250	0	P	V
		15900	50.03	-23.97	74	59.11	37.42	13.38	59.88	150	0	P	V
802.11a CH 64 5320MHz		10640	48.96	-25.04	74	58.46	39	10.68	59.18	150	0	P	H
		15960	50.62	-23.38	74	59.87	37.21	13.46	59.92	150	0	P	H
		10640	50.24	-23.76	74	59.74	39	10.68	59.18	250	0	P	V
		15960	50.52	-23.48	74	59.77	37.21	13.46	59.92	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20 CH 52 5260MHz		5057.9	46.51	-27.49	74	41.72	31.38	7.15	33.74	150	171	P	H
		5116.1	37.43	-16.57	54	32.52	31.45	7.16	33.7	150	171	A	H
	*	5260	93.26	-	-	87.81	31.67	7.38	33.6	150	171	P	H
	*	5260	86.14	-	-	80.69	31.67	7.38	33.6	150	171	A	H
		5459.23	45.98	-28.02	74	40.05	31.93	7.47	33.47	150	171	P	H
		5458.46	37.79	-16.21	54	31.86	31.93	7.47	33.47	150	171	A	H
		5131.1	47.33	-26.67	74	42.28	31.48	7.26	33.69	150	24	P	V
		5073.35	37.6	-16.4	54	32.76	31.41	7.15	33.72	150	24	A	V
	*	5260	98.9	-	-	93.45	31.67	7.38	33.6	150	24	P	V
	*	5260	91.04	-	-	85.59	31.67	7.38	33.6	150	24	A	V
		5447.24	47.18	-26.82	74	41.26	31.93	7.47	33.48	150	24	P	V
		5458.57	37.85	-16.15	54	31.92	31.93	7.47	33.47	150	24	A	V
802.11n HT20 CH 60 5300MHz		5090.6	46.76	-27.24	74	41.89	31.43	7.16	33.72	150	174	P	H
		5084.9	37.43	-16.57	54	32.59	31.41	7.15	33.72	150	174	A	H
	*	5300	95.12	-	-	89.59	31.72	7.38	33.57	150	174	P	H
	*	5300	87.68	-	-	82.15	31.72	7.38	33.57	150	174	A	H
		5392.24	46.84	-27.16	74	41.14	31.83	7.39	33.52	150	174	P	H
		5351.65	39.2	-14.8	54	33.55	31.79	7.39	33.53	150	174	A	H
		5014.7	46.37	-27.63	74	41.68	31.31	7.15	33.77	150	24	P	V
		5113.55	37.53	-16.47	54	32.62	31.45	7.16	33.7	150	24	A	V
	*	5300	97.88	-	-	92.35	31.72	7.38	33.57	150	24	P	V
	*	5300	91.43	-	-	85.9	31.72	7.38	33.57	150	24	A	V
		5352.86	48.37	-25.63	74	42.72	31.79	7.39	33.53	150	24	P	V
		5351.65	41.81	-12.19	54	36.16	31.79	7.39	33.53	150	24	A	V



<b>802.11n</b>  <b>HT20</b>  <b>CH 64</b>  <b>5320MHz</b>	*	5320	95.48	-	-	89.93	31.74	7.38	33.57	150	32	P	H
	*	5320	88.48	-	-	82.93	31.74	7.38	33.57	150	32	A	H
		5407.75	47.32	-26.68	74	41.53	31.86	7.43	33.5	150	32	P	H
		5371.89	39.87	-14.13	54	34.2	31.81	7.39	33.53	150	32	A	H
	*	5320	98.7	-	-	93.15	31.74	7.38	33.57	150	23	P	V
	*	5320	90.23	-	-	84.68	31.74	7.38	33.57	150	23	A	V
		5371.45	50.1	-23.9	74	44.43	31.81	7.39	33.53	150	23	P	V
		5371.45	41.8	-12.2	54	36.13	31.81	7.39	33.53	150	23	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 2 5250~5350MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n		10520	48.49	-25.51	74	58.12	38.84	10.59	59.06	250	0	P	H
HT20		15780	50.01	-23.99	74	58.77	37.79	13.27	59.82	150	0	P	H
CH 52		10520	48.64	-25.36	74	58.27	38.84	10.59	59.06	250	0	P	V
5260MHz		15780	50.85	-23.15	74	59.61	37.79	13.27	59.82	150	0	P	V
802.11n		10600	50.71	-23.29	74	60.26	38.95	10.65	59.15	250	0	P	H
HT20		15900	50.52	-23.48	74	59.6	37.42	13.38	59.88	150	0	P	H
CH 60		10600	49.48	-24.52	74	59.03	38.95	10.65	59.15	250	0	P	V
5300MHz		15900	50.43	-23.57	74	59.51	37.42	13.38	59.88	150	0	P	V
802.11n		10640	49.28	-24.72	74	58.78	39	10.68	59.18	250	0	P	H
HT20		15960	50.38	-23.62	74	59.63	37.21	13.46	59.92	150	0	P	H
CH 64		10640	49	-25	74	58.5	39	10.68	59.18	250	0	P	V
5320MHz		15960	50.02	-23.98	74	59.27	37.21	13.46	59.92	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 54 5270MHz		5053.25	46.14	-27.86	74	41.37	31.36	7.15	33.74	151	20	P	H
		5098.4	37.54	-16.46	54	32.65	31.43	7.16	33.7	151	20	A	H
	*	5270	95.93	-	-	90.48	31.67	7.38	33.6	151	20	P	H
	*	5270	87.05	-	-	81.6	31.67	7.38	33.6	151	20	A	H
		5375.85	47.63	-26.37	74	41.95	31.81	7.39	33.52	151	20	P	H
		5372.99	39.1	-14.9	54	33.43	31.81	7.39	33.53	151	20	A	H
		5028.2	46.3	-27.7	74	41.56	31.34	7.15	33.75	150	24	P	V
		5141.15	37.58	-16.42	54	32.51	31.5	7.26	33.69	150	24	A	V
	*	5270	99.62	-	-	94.17	31.67	7.38	33.6	150	24	P	V
	*	5270	90.63	-	-	85.18	31.67	7.38	33.6	150	24	A	V
		5372.88	49.23	-24.77	74	43.56	31.81	7.39	33.53	150	24	P	V
		5373.54	40.6	-13.4	54	34.92	31.81	7.39	33.52	150	24	A	V
802.11n HT40 CH 62 5310MHz		5081.6	46.57	-27.43	74	41.73	31.41	7.15	33.72	150	23	P	H
		5124.8	37.63	-16.37	54	32.68	31.48	7.16	33.69	150	23	A	H
	*	5310	95.04	-	-	89.49	31.74	7.38	33.57	150	23	P	H
	*	5310	85.79	-	-	80.24	31.74	7.38	33.57	150	23	A	H
		5353.85	53.56	-20.44	74	47.91	31.79	7.39	33.53	150	23	P	H
		5350	46.34	-7.66	54	40.69	31.79	7.39	33.53	150	23	A	H
		5102.3	46.4	-27.6	74	41.51	31.43	7.16	33.7	150	24	P	V
		5108.75	37.58	-16.42	54	32.67	31.45	7.16	33.7	150	24	A	V
	*	5310	98.82	-	-	93.27	31.74	7.38	33.57	150	24	P	V
	*	5310	89.89	-	-	84.34	31.74	7.38	33.57	150	24	A	V
		5350	58.26	-15.74	74	52.61	31.79	7.39	33.53	150	24	P	V
		5350.11	49.83	-4.17	54	44.18	31.79	7.39	33.53	150	24	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





**Band 2 5250~5350MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	49.78	-24.22	74	59.38	38.86	10.62	59.08	250	0	P	H
		15810	50.81	-23.19	74	59.65	37.69	13.31	59.84	150	0	P	H
		10540	49.54	-24.46	74	59.14	38.86	10.62	59.08	250	0	P	V
		15810	50.18	-23.82	74	59.02	37.69	13.31	59.84	150	0	P	V
802.11n HT40 CH 62 5310MHz		10620	49.85	-24.15	74	59.36	38.98	10.68	59.17	250	0	P	H
		15930	50.29	-23.71	74	59.46	37.31	13.42	59.9	150	0	P	H
		10620	50.06	-23.94	74	59.57	38.98	10.68	59.17	250	0	P	V
		15930	50.58	-23.42	74	59.75	37.31	13.42	59.9	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT20 CH 52 5260MHz		5148.2	46.57	-27.43	74	41.48	31.5	7.26	33.67	150	357	P	H
		5057.75	37.48	-16.52	54	32.69	31.38	7.15	33.74	150	357	A	H
	*	5260	100.98	-	-	95.53	31.67	7.38	33.6	150	357	P	H
	*	5260	89.21	-	-	83.76	31.67	7.38	33.6	150	357	A	H
		5376.62	46.1	-27.9	74	40.42	31.81	7.39	33.52	150	357	P	H
		5455.6	37.59	-16.41	54	31.66	31.93	7.47	33.47	150	357	A	H
		5090.6	46.32	-27.68	74	41.45	31.43	7.16	33.72	150	30	P	V
		5140.25	37.43	-16.57	54	32.36	31.5	7.26	33.69	150	30	A	V
	*	5260	101.37	-	-	95.92	31.67	7.38	33.6	150	30	P	V
	*	5260	92.64	-	-	87.19	31.67	7.38	33.6	150	30	A	V
		5428.76	46.61	-27.39	74	40.75	31.91	7.43	33.48	150	30	P	V
		5458.9	38.52	-15.48	54	32.59	31.93	7.47	33.47	150	30	A	V
802.11ac VHT20 CH 60 5300MHz		5118.65	46.68	-27.32	74	41.76	31.45	7.16	33.69	150	357	P	H
		5132.3	37.5	-16.5	54	32.45	31.48	7.26	33.69	150	357	A	H
	*	5300	96.73	-	-	91.2	31.72	7.38	33.57	150	357	P	H
	*	5300	88.27	-	-	82.74	31.72	7.38	33.57	150	357	A	H
		5355.17	47.5	-26.5	74	41.85	31.79	7.39	33.53	150	357	P	H
		5351.98	40.34	-13.66	54	34.69	31.79	7.39	33.53	150	357	A	H
		5078.75	45.88	-28.12	74	41.04	31.41	7.15	33.72	150	28	P	V
		5133.65	37.77	-16.23	54	32.72	31.48	7.26	33.69	150	28	A	V
	*	5300	100.41	-	-	94.88	31.72	7.38	33.57	150	28	P	V
	*	5300	91.85	-	-	86.32	31.72	7.38	33.57	150	28	A	V
		5351.65	48.57	-25.43	74	42.92	31.79	7.39	33.53	150	28	P	V
		5351.76	42.44	-11.56	54	36.79	31.79	7.39	33.53	150	28	A	V



<b>802.11ac</b> <b>VHT20</b> <b>CH 64</b> <b>5320MHz</b>	*	5320	97.21	-	-	91.66	31.74	7.38	33.57	150	358	P	H
	*	5320	87.61	-	-	82.06	31.74	7.38	33.57	150	358	A	H
		5372.66	47.32	-26.68	74	41.65	31.81	7.39	33.53	150	358	P	H
		5371.89	40.17	-13.83	54	34.5	31.81	7.39	33.53	150	358	A	H
	*	5320	100.36	-	-	94.81	31.74	7.38	33.57	150	26	P	V
	*	5320	91.22	-	-	85.67	31.74	7.38	33.57	150	26	A	V
		5350.66	52.42	-21.58	74	46.77	31.79	7.39	33.53	150	26	P	V
		5371.67	42.35	-11.65	54	36.68	31.81	7.39	33.53	150	26	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac		10520	48.37	-25.63	74	58.41	38.84	10.18	59.06	250	0	P	H
VHT20		15780	50.57	-23.43	74	59.51	37.79	13.09	59.82	150	0	P	H
CH 52		10520	48.46	-25.54	74	58.5	38.84	10.18	59.06	250	0	P	V
5260MHz		15780	50.07	-22.93	74	60.01	37.79	13.09	59.82	150	0	P	V
802.11ac		10600	48.48	-25.52	74	58.39	38.95	10.29	59.15	250	0	P	H
VHT20		15900	49.95	-24.05	74	59.17	37.42	13.24	59.88	150	0	P	H
CH 60		10600	48.28	-25.72	74	58.19	38.95	10.29	59.15	250	0	P	V
5300MHz		15900	50.51	-22.49	74	60.73	37.42	13.24	59.88	150	0	P	V
802.11ac		10640	48.41	-25.59	74	58.25	39	10.34	59.18	250	0	P	H
VHT20		15960	50.57	-23.43	74	59.93	37.21	13.35	59.92	150	0	P	H
CH 64		10640	48.39	-25.61	74	58.23	39	10.34	59.18	250	0	P	V
5320MHz		15960	49.57	-24.43	74	58.93	37.21	13.35	59.92	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT40 CH 54 5270MHz		5075.15	46.23	-27.77	74	41.39	31.41	7.15	33.72	150	174	P	H
		5120.3	37.91	-16.09	54	32.99	31.45	7.16	33.69	150	174	A	H
	*	5270	92.9	-	-	87.45	31.67	7.38	33.6	150	174	P	H
	*	5270	83.04	-	-	77.59	31.67	7.38	33.6	150	174	A	H
		5366.39	47.21	-26.79	74	41.54	31.81	7.39	33.53	150	174	P	H
		5372.11	38.01	-15.99	54	32.34	31.81	7.39	33.53	150	174	A	H
		5096	46.66	-27.34	74	41.77	31.43	7.16	33.7	150	360	P	V
		5092.55	37.54	-16.46	54	32.67	31.43	7.16	33.72	150	360	A	V
	*	5270	95.04	-	-	89.59	31.67	7.38	33.6	150	360	P	V
	*	5270	85.94	-	-	80.49	31.67	7.38	33.6	150	360	A	V
		5378.82	46.32	-27.68	74	40.62	31.83	7.39	33.52	150	360	P	V
		5372.44	38.79	-15.21	54	33.12	31.81	7.39	33.53	150	360	A	V
802.11ac VHT40 CH 62 5310MHz		5055.5	46.29	-27.71	74	41.5	31.38	7.15	33.74	150	175	P	H
		5032.55	37.6	-16.4	54	32.86	31.34	7.15	33.75	150	175	A	H
	*	5310	93.65	-	-	88.1	31.74	7.38	33.57	150	175	P	H
	*	5310	84.44	-	-	78.89	31.74	7.38	33.57	150	175	A	H
		5351.1	50.55	-23.45	74	44.9	31.79	7.39	33.53	150	175	P	H
		5350.55	42.88	-11.12	54	37.23	31.79	7.39	33.53	150	175	A	H
		5061.5	46.4	-27.6	74	41.61	31.38	7.15	33.74	150	360	P	V
		5052.5	37.6	-16.4	54	32.83	31.36	7.15	33.74	150	360	A	V
	*	5310	95.96	-	-	90.41	31.74	7.38	33.57	150	360	P	V
	*	5310	86.95	-	-	81.4	31.74	7.38	33.57	150	360	A	V
		5350.77	52.39	-21.61	74	46.74	31.79	7.39	33.53	150	360	P	V
		5350.55	44.78	-9.22	54	39.13	31.79	7.39	33.53	150	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10540	48.94	-25.06	74	58.93	38.86	10.23	59.08	250	0	P	H
VHT40		15810	49.98	-24.02	74	58.99	37.69	13.14	59.84	150	0	P	H
CH 54		10540	48.93	-25.07	74	58.92	38.86	10.23	59.08	250	0	P	V
5270MHz		15810	50.09	-23.91	74	59.1	37.69	13.14	59.84	150	0	P	V
802.11ac		10540	49.31	-24.69	74	59.3	38.86	10.23	59.08	250	0	P	H
VHT40		15810	49.44	-24.56	74	58.45	37.69	13.14	59.84	150	0	P	H
CH 62		10540	49.56	-24.44	74	59.55	38.86	10.23	59.08	250	0	P	V
5310MHz		15810	49.3	-24.7	74	58.31	37.69	13.14	59.84	150	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
<b>802.11ac VHT80 CH 58 5290MHz</b>		5049.8	46.3	-27.7	74	41.53	31.36	7.15	33.74	150	156	P	H
		5149.55	38.87	-15.13	54	33.78	31.5	7.26	33.67	150	156	A	H
	*	5290	91.13	-	-	85.64	31.69	7.38	33.58	150	156	P	H
	*	5290	82.78	-	-	77.29	31.69	7.38	33.58	150	156	A	H
		5369.8	54.03	-19.97	74	48.36	31.81	7.39	33.53	150	156	P	H
		5355.06	44.92	-9.08	54	39.27	31.79	7.39	33.53	150	156	A	H
		5080.1	47.36	-26.64	74	42.52	31.41	7.15	33.72	150	360	P	V
		5058.35	38.74	-15.26	54	33.95	31.38	7.15	33.74	150	360	A	V
	*	5290	95.3	-	-	89.81	31.69	7.38	33.58	150	360	P	V
	*	5290	85.65	-	-	80.16	31.69	7.38	33.58	150	360	A	V
		5366.17	55.46	-18.54	74	49.79	31.81	7.39	33.53	150	360	P	V
		5355.17	47.27	-6.73	54	41.62	31.79	7.39	33.53	150	360	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 2 5250~5350MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10580	49.45	-24.55	74	59	38.93	10.65	59.13	250	0	P	H
VHT80		15870	50.66	-23.34	74	59.71	37.47	13.35	59.87	150	0	P	H
CH 58		10580	48.78	-25.22	74	58.33	38.93	10.65	59.13	250	0	P	V
5290MHz		15870	50.04	-23.96	74	59.09	37.47	13.35	59.87	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





## Band 3 - 5470~5725MHz

## WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 100 5500MHz		5470	49.88	-24.12	74	43.93	31.95	7.47	33.47	150	192	P	H
		5470	40.33	-13.67	54	34.38	31.95	7.47	33.47	150	192	A	H
	*	5500	99.58	-	-	93.52	32	7.51	33.45	150	192	P	H
	*	5500	92.55	-	-	86.49	32	7.51	33.45	150	192	A	H
		5468.88	51.67	-22.33	74	45.72	31.95	7.47	33.47	250	347	P	V
		5470	42.56	-11.44	54	36.61	31.95	7.47	33.47	250	347	A	V
	*	5500	103.39	-	-	97.33	32	7.51	33.45	250	347	P	V
	*	5500	95.38	-	-	89.32	32	7.51	33.45	250	347	A	V
802.11a CH 116 5580MHz		5403.12	45.49	-28.51	74	39.74	31.86	7.39	33.5	152	215	P	H
		5465.04	37.05	-16.95	54	31.1	31.95	7.47	33.47	152	215	A	H
	*	5580	101.36	-	-	95.09	32.11	7.64	33.48	152	215	P	H
	*	5580	94.88	-	-	88.61	32.11	7.64	33.48	152	215	A	H
		5743.48	47.13	-26.87	74	40.53	32.39	7.74	33.53	152	215	P	H
		5764.68	37.95	-16.05	54	31.33	32.41	7.74	33.53	152	215	A	H
		5395.12	46.72	-27.28	74	40.99	31.86	7.39	33.52	168	23	P	V
		5382.96	37.86	-16.14	54	32.16	31.83	7.39	33.52	168	23	A	V
	*	5580	102.6	-	-	96.33	32.11	7.64	33.48	168	23	P	V
	*	5580	96.87	-	-	90.6	32.11	7.64	33.48	168	23	A	V
		5764.76	48.12	-25.88	74	41.5	32.41	7.74	33.53	168	23	P	V
		5764.68	38.09	-15.91	54	31.47	32.41	7.74	33.53	168	23	A	V



<b>802.11a</b> <b>CH 140</b> <b>5700MHz</b>	*	5700	99.38	-	-	92.91	32.3	7.68	33.51	169	171	P	H
	*	5700	92.37	-	-	85.9	32.3	7.68	33.51	169	171	A	H
		5725	53.23	-20.77	74	46.71	32.36	7.68	33.52	169	171	P	H
		5725.08	43.64	-10.36	54	37.12	32.36	7.68	33.52	169	171	A	H
	*	5700	102.07	-	-	95.6	32.3	7.68	33.51	164	24	P	V
	*	5700	93.79	-	-	87.32	32.3	7.68	33.51	164	24	A	V
		5725.72	54.45	-19.55	74	47.93	32.36	7.68	33.52	164	24	P	V
		5725.08	44.37	-9.63	54	37.85	32.36	7.68	33.52	164	24	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	47.65	-26.35	74	56.75	39.5	10.96	59.56	250	0	P	H
		16500	49.61	-24.39	74	57	38.47	13.81	59.67	150	0	P	H
		11000	48.97	-25.03	74	58.07	39.5	10.96	59.56	250	0	P	V
		16500	50.04	-23.96	74	57.43	38.47	13.81	59.67	150	0	P	V
802.11a CH 116 5580MHz		11160	49.17	-24.83	74	58.45	39.35	11	59.63	250	0	P	H
		16650	50.41	-23.59	74	56.84	38.88	14.2	59.51	150	0	P	H
		11100	49.74	-24.26	74	58.94	39.41	10.99	59.6	250	0	P	V
		16650	50.55	-23.45	74	56.98	38.88	14.2	59.51	150	0	P	V
802.11a CH 140 5700MHz		11400	49.2	-24.8	74	58.72	39.13	11.07	59.72	250	0	P	H
		17100	50.45	-23.55	74	53.73	40.48	15.01	58.77	150	0	P	H
		11400	48.71	-25.29	74	58.23	39.13	11.07	59.72	250	0	P	V
		17100	49.38	-24.62	74	52.66	40.48	15.01	58.77	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20 CH 100 5500MHz		5469.84	50.52	-23.48	74	44.57	31.95	7.47	33.47	159	171	P	H
		5448.4	40.91	-13.09	54	34.99	31.93	7.47	33.48	159	171	A	H
	*	5500	98.03	-	-	91.97	32	7.51	33.45	159	171	P	H
	*	5500	92.26	-	-	86.2	32	7.51	33.45	159	171	A	H
		5469.84	50.47	-23.53	74	44.52	31.95	7.47	33.47	220	318	P	V
		5448.24	42.11	-11.89	54	36.19	31.93	7.47	33.48	220	318	A	V
	*	5500	100.89	-	-	94.83	32	7.51	33.45	220	318	P	V
	*	5500	93.96	-	-	87.9	32	7.51	33.45	220	318	A	V
802.11n HT20 CH 116 5580MHz		5400.72	46.52	-27.48	74	40.77	31.86	7.39	33.5	150	148	P	H
		5468.88	37.8	-16.2	54	31.85	31.95	7.47	33.47	150	148	A	H
	*	5580	102.07	-	-	95.8	32.11	7.64	33.48	150	148	P	H
	*	5580	92.72	-	-	86.45	32.11	7.64	33.48	150	148	A	H
		5730.6	47.44	-26.56	74	40.87	32.36	7.74	33.53	150	148	P	H
		5763.8	38.93	-15.07	54	32.31	32.41	7.74	33.53	150	148	A	H
		5429.68	46.29	-27.71	74	40.43	31.91	7.43	33.48	227	360	P	V
		5465.2	38.1	-15.9	54	32.15	31.95	7.47	33.47	227	360	A	V
	*	5580	103.21	-	-	96.94	32.11	7.64	33.48	227	360	P	V
	*	5580	93.95	-	-	87.68	32.11	7.64	33.48	227	360	A	V
		5758.12	47.73	-26.27	74	41.11	32.41	7.74	33.53	227	360	P	V
		5751.64	38.54	-15.46	54	31.92	32.41	7.74	33.53	227	360	A	V



<b>802.11n</b> <b>HT20</b> <b>CH 140</b> <b>5700MHz</b>	*	5700	100.99	-	-	94.52	32.3	7.68	33.51	150	147	P	H
	*	5700	91.01	-	-	84.54	32.3	7.68	33.51	150	147	A	H
		5725	54.9	-19.1	74	48.38	32.36	7.68	33.52	150	147	P	H
		5725	45.54	-8.46	54	39.02	32.36	7.68	33.52	150	147	A	H
	*	5700	99.49	-	-	93.02	32.3	7.68	33.51	250	351	P	V
	*	5700	90.26	-	-	83.79	32.3	7.68	33.51	250	351	A	V
		5725.64	55.94	-18.06	74	49.42	32.36	7.68	33.52	250	351	P	V
		5725	44.14	-9.86	54	37.62	32.36	7.68	33.52	250	351	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11000	47.88	-26.12	74	56.98	39.5	10.96	59.56	250	0	P	H
HT20		16500	50.64	-23.36	74	58.03	38.47	13.81	59.67	150	0	P	H
CH 100		11000	47.54	-26.46	74	56.64	39.5	10.96	59.56	250	0	P	V
5500MHz		16500	49.75	-24.25	74	57.14	38.47	13.81	59.67	150	0	P	V
802.11n		11160	48.23	-25.77	74	57.51	39.35	11	59.63	250	0	P	H
HT20		16740	50.69	-23.31	74	56.6	39.11	14.4	59.42	150	0	P	H
CH 116		11160	48.61	-25.39	74	57.89	39.35	11	59.63	250	0	P	V
5580MHz		16740	50.71	-23.29	74	56.62	39.11	14.4	59.42	150	0	P	V
802.11n		11400	49.19	-24.81	74	58.71	39.13	11.07	59.72	250	0	P	H
HT20		17100	50.65	-23.35	74	53.93	40.48	15.01	58.77	150	0	P	H
CH 140		11400	48	-26	74	57.52	39.13	11.07	59.72	250	0	P	V
5700MHz		17100	49.69	-24.31	74	52.97	40.48	15.01	58.77	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
<b>802.11n HT40 CH 102 5510MHz</b>		5467.28	53.39	-20.61	74	47.44	31.95	7.47	33.47	150	198	P	H
		5469.2	46.24	-7.76	54	40.29	31.95	7.47	33.47	150	198	A	H
	*	5510	95.73	-	-	89.68	32	7.51	33.46	150	198	P	H
	*	5510	88.85	-	-	82.8	32	7.51	33.46	150	198	A	H
		5731.32	46.54	-27.46	74	39.97	32.36	7.74	33.53	150	198	P	H
		5728.84	38.3	-15.7	54	31.72	32.36	7.74	33.52	150	198	A	H
		5469.68	55.97	-18.03	74	50.02	31.95	7.47	33.47	150	25	P	V
		5470	49.56	-4.44	54	43.61	31.95	7.47	33.47	150	25	A	V
	*	5510	97.81	-	-	91.76	32	7.51	33.46	150	25	P	V
	*	5510	91.2	-	-	85.15	32	7.51	33.46	150	25	A	V
		5750.12	46.26	-27.74	74	39.66	32.39	7.74	33.53	150	25	P	V
		5762.68	38.18	-15.82	54	31.56	32.41	7.74	33.53	150	25	A	V
<b>802.11n HT40 CH 110 5550MHz</b>		5465.52	46.17	-27.83	74	40.22	31.95	7.47	33.47	150	149	P	H
		5446	38.92	-15.08	54	33	31.93	7.47	33.48	150	149	A	H
	*	5550	100.03	-	-	93.85	32.08	7.57	33.47	150	149	P	H
	*	5550	90.14	-	-	83.96	32.08	7.57	33.47	150	149	A	H
		5756.6	47.31	-26.69	74	40.69	32.41	7.74	33.53	150	149	P	H
		5738.04	38.33	-15.67	54	31.73	32.39	7.74	33.53	150	149	A	H
		5443.92	47.65	-26.35	74	41.79	31.91	7.43	33.48	189	322	P	V
		5446.32	39.19	-14.81	54	33.27	31.93	7.47	33.48	189	322	A	V
	*	5550	98.9	-	-	92.72	32.08	7.57	33.47	189	322	P	V
	*	5550	89.5	-	-	83.32	32.08	7.57	33.47	189	322	A	V
		5733.24	47.16	-26.84	74	40.59	32.36	7.74	33.53	189	322	P	V
		5748.12	38.33	-15.67	54	31.73	32.39	7.74	33.53	189	322	A	V



<b>802.11n</b> <b>HT40</b> <b>CH 134</b> <b>5670MHz</b>		5439.76	45.65	-28.35	74	39.79	31.91	7.43	33.48	150	153	P	H
		5464.72	37.77	-16.23	54	31.82	31.95	7.47	33.47	150	153	A	H
	*	5670	96.48	-	-	90.03	32.28	7.67	33.5	150	153	P	H
	*	5670	89.64	-	-	83.19	32.28	7.67	33.5	150	153	A	H
		5729.96	52.4	-21.6	74	45.82	32.36	7.74	33.52	150	153	P	H
		5726.04	41.34	-12.66	54	34.76	32.36	7.74	33.52	150	153	A	H
		5457.36	46.02	-27.98	74	40.09	31.93	7.47	33.47	173	27	P	V
		5466.96	37.89	-16.11	54	31.94	31.95	7.47	33.47	173	27	A	V
	*	5670	95.57	-	-	89.12	32.28	7.67	33.5	173	27	P	V
	*	5670	89.34	-	-	82.89	32.28	7.67	33.5	173	27	A	V
		5728.2	50.64	-23.36	74	44.06	32.36	7.74	33.52	173	27	P	V
		5725.4	40.57	-13.43	54	34.05	32.36	7.68	33.52	173	27	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n		11020	48.5	-25.5	74	57.62	39.48	10.97	59.57	250	0	P	H
HT40		16530	50.64	-23.36	74	57.8	38.56	13.91	59.63	150	0	P	H
CH 102		11020	47.96	-26.04	74	57.08	39.48	10.97	59.57	250	0	P	V
5510MHz		16530	50	-24	74	57.16	38.56	13.91	59.63	150	0	P	V
802.11n		11100	48.77	-25.23	74	58.08	39.41	10.88	59.6	250	0	P	H
HT40		16650	50.5	-23.5	74	57.43	38.88	13.7	59.51	150	0	P	H
CH 110		11100	48.8	-25.2	74	58.11	39.41	10.88	59.6	250	0	P	V
5550MHz		16650	50.69	-23.31	74	57.62	38.88	13.7	59.51	150	0	P	V
802.11n		11340	48.78	-25.22	74	58.3	39.19	10.98	59.69	250	0	P	H
HT40		17010	49.59	-24.41	74	54.33	39.91	14.45	59.1	150	0	P	H
CH 134		11340	48.15	-25.85	74	57.67	39.19	10.98	59.69	250	0	P	V
5670MHz		17010	49.76	-24.24	74	54.5	39.91	14.45	59.1	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 100 5500MHz		5461.68	47.69	-26.31	74	41.76	31.93	7.47	33.47	150	153	P	H
		5448.4	40.5	-13.5	54	34.58	31.93	7.47	33.48	150	153	A	H
	*	5500	98.67	-	-	92.61	32	7.51	33.45	150	153	P	H
	*	5500	90.27	-	-	84.21	32	7.51	33.45	150	153	A	H
		5466.16	50.9	-23.1	74	44.95	31.95	7.47	33.47	209	31	P	V
		5448.4	42.99	-11.01	54	37.07	31.93	7.47	33.48	209	31	A	V
	*	5500	100.94	-	-	94.88	32	7.51	33.45	209	31	P	V
	*	5500	92.13	-	-	86.07	32	7.51	33.45	209	31	A	V
802.11ac VHT20 CH 116 5580MHz		5441.04	45.88	-28.12	74	40.02	31.91	7.43	33.48	150	150	P	H
		5469.2	37.59	-16.41	54	31.64	31.95	7.47	33.47	150	150	A	H
	*	5580	102.33	-	-	96.06	32.11	7.64	33.48	150	150	P	H
	*	5580	93.48	-	-	87.21	32.11	7.64	33.48	150	150	A	H
		5764.44	47.25	-26.75	74	40.63	32.41	7.74	33.53	150	150	P	H
		5765	38.48	-15.52	54	31.86	32.41	7.74	33.53	150	150	A	H
		5390.16	46.43	-27.57	74	40.73	31.83	7.39	33.52	224	359	P	V
		5395.28	37.57	-16.43	54	31.84	31.86	7.39	33.52	224	359	A	V
	*	5580	101.99	-	-	95.72	32.11	7.64	33.48	224	359	P	V
	*	5580	93.22	-	-	86.95	32.11	7.64	33.48	224	359	A	V
		5732.44	46.65	-27.35	74	40.08	32.36	7.74	33.53	224	359	P	V
		5726.68	38.2	-15.8	54	31.62	32.36	7.74	33.52	224	359	A	V



<b>802.11ac</b> <b>VHT20</b> <b>CH 140</b> <b>5700MHz</b>	*	5700	100.05	-	-	93.58	32.3	7.68	33.51	155	154	P	H
	*	5700	90.41	-	-	83.94	32.3	7.68	33.51	155	154	A	H
		5725.48	54.59	-19.41	74	48.07	32.36	7.68	33.52	155	154	P	H
		5725.08	44.29	-9.71	54	37.77	32.36	7.68	33.52	155	154	A	H
	*	5700	97.05	-	-	90.58	32.3	7.68	33.51	151	26	P	V
	*	5700	90.97	-	-	84.5	32.3	7.68	33.51	151	26	A	V
		5727	53.56	-20.44	74	46.98	32.36	7.74	33.52	151	26	P	V
		5725	42.86	-11.14	54	36.34	32.36	7.68	33.52	151	26	A	V
<b>Remark</b>	<ol style="list-style-type: none"><li>1. No other spurious found.</li><li>2. All results are PASS against Peak and Average limit line.</li></ol>												


**Band 3 - 5470~5725MHz**
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11000	47.92	-26.08	74	57.15	39.5	10.83	59.56	250	0	P	H
VHT20		16500	49.33	-24.67	74	57.17	38.47	13.36	59.67	150	0	P	H
CH 100		11000	48.72	-25.28	74	57.95	39.5	10.83	59.56	250	0	P	V
5500MHz		16500	48.84	-25.16	74	56.68	38.47	13.36	59.67	150	0	P	V
802.11ac		11160	49.16	-24.84	74	58.54	39.35	10.9	59.63	250	0	P	H
VHT20		16740	50.02	-22.98	74	57.47	39.11	13.86	58.42	150	0	P	H
CH 116		11160	48.99	-25.01	74	58.37	39.35	10.9	59.63	250	0	P	V
5580MHz		16740	49.98	-24.02	74	56.43	39.11	13.86	59.42	150	0	P	V
802.11ac		11400	48.24	-25.76	74	57.83	39.13	11	59.72	250	0	P	H
VHT20		17100	50.72	-23.28	74	54.48	40.48	14.53	58.77	150	0	P	H
CH 140		11400	48.12	-25.88	74	57.71	39.13	11	59.72	250	0	P	V
5700MHz		17100	50.64	-23.36	74	54.4	40.48	14.53	58.77	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT40 CH 102 5510MHz		5467.92	58.5	-15.5	74	52.55	31.95	7.47	33.47	150	174	P	H
		5469.84	47.49	-6.51	54	41.54	31.95	7.47	33.47	150	174	A	H
	*	5510	95.24	-	-	89.19	32	7.51	33.46	150	174	P	H
	*	5510	82.05	-	-	76	32	7.51	33.46	150	174	P	H
		5759.4	46.72	-27.28	74	40.1	32.41	7.74	33.53	150	174	P	H
		5761.96	38.28	-15.72	54	31.66	32.41	7.74	33.53	150	174	A	H
		5465.68	56.37	-17.63	74	50.42	31.95	7.47	33.47	150	344	P	V
		5470	49.02	-4.98	54	43.07	31.95	7.47	33.47	150	344	A	V
	*	5510	98.45	-	-	92.4	32	7.51	33.46	150	344	P	V
	*	5510	89.08	-	-	83.03	32	7.51	33.46	150	344	A	V
		5743.56	46.95	-27.05	74	40.35	32.39	7.74	33.53	150	344	P	V
		5758.28	38.31	-15.69	54	31.69	32.41	7.74	33.53	150	344	A	V
802.11ac VHT40 CH 110 5550MHz		5447.6	46.42	-27.58	74	40.5	31.93	7.47	33.48	150	172	P	H
		5446.96	38.31	-15.69	54	32.39	31.93	7.47	33.48	150	172	A	H
	*	5550	97.49	-	-	91.31	32.08	7.57	33.47	150	172	P	H
	*	5550	87.79	-	-	81.61	32.08	7.57	33.47	150	172	A	H
		5733.48	46.64	-27.36	74	40.07	32.36	7.74	33.53	150	172	P	H
		5756.28	38.46	-15.54	54	31.84	32.41	7.74	33.53	150	172	A	H
		5459.28	46.78	-27.22	74	40.85	31.93	7.47	33.47	150	360	P	V
		5447.28	38.83	-15.17	54	32.91	31.93	7.47	33.48	150	360	A	V
	*	5550	98.05	-	-	91.87	32.08	7.57	33.47	150	360	P	V
	*	5550	88.36	-	-	82.18	32.08	7.57	33.47	150	360	A	V
		5754.36	47.42	-26.58	74	40.8	32.41	7.74	33.53	150	360	P	V
		5742.12	38.26	-15.74	54	31.66	32.39	7.74	33.53	150	360	A	V



<b>802.11ac</b> <b>VHT40</b> <b>CH 134</b> <b>5670MHz</b>		5450.8	46.96	-27.04	74	41.03	31.93	7.47	33.47	150	194	P	H
		5457.52	37.54	-16.46	54	31.61	31.93	7.47	33.47	150	194	A	H
	*	5670	98.24	-	-	91.79	32.28	7.67	33.5	150	194	P	H
	*	5670	87.76	-	-	81.31	32.28	7.67	33.5	150	194	A	H
		5725.16	51.88	-22.12	74	45.36	32.36	7.68	33.52	150	194	P	H
		5725	41.44	-12.56	54	34.92	32.36	7.68	33.52	150	194	A	H
		5442.16	45.88	-28.12	74	40.02	31.91	7.43	33.48	150	360	P	V
		5461.52	37.77	-16.23	54	31.84	31.93	7.47	33.47	150	360	A	V
	*	5670	97.76	-	-	91.31	32.28	7.67	33.5	150	360	P	V
	*	5670	87.44	-	-	80.99	32.28	7.67	33.5	150	360	A	V
		5727.56	50.68	-23.32	74	44.1	32.36	7.74	33.52	150	360	P	V
		5725.08	40.64	-13.36	54	34.12	32.36	7.68	33.52	150	360	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 - 5470~5725MHz

## WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac		11020	48.49	-25.51	74	57.61	39.48	10.97	59.57	250	0	P	H
VHT40		16530	49.93	-24.07	74	57.09	38.56	13.91	59.63	150	0	P	H
CH 102		11020	47.87	-26.13	74	56.99	39.48	10.97	59.57	250	0	P	V
5510MHz		16530	50.27	-23.73	74	57.43	38.56	13.91	59.63	150	0	P	V
802.11ac		11100	47.97	-26.03	74	57.17	39.41	10.99	59.6	250	0	P	H
VHT40		16650	50.36	-23.64	74	56.79	38.88	14.2	59.51	150	0	P	H
CH 110		11100	48.49	-25.51	74	57.69	39.41	10.99	59.6	250	0	P	V
5550MHz		16590	50.87	-23.13	74	57.74	38.7	14.01	59.58	150	0	P	V
802.11ac		11340	48.29	-25.71	74	57.73	39.19	11.06	59.69	250	0	P	H
VHT40		17010	50.59	-23.41	74	54.7	39.91	15.08	59.1	150	0	P	H
CH 134		11340	48.54	-25.46	74	57.98	39.19	11.06	59.69	250	0	P	V
5670MHz		17010	50.25	-23.75	74	54.36	39.91	15.08	59.1	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT80 CH 106 5530MHz		5458	56	-18	74	50.07	31.93	7.47	33.47	150	153	P	H
		5467.28	49.64	-4.36	54	43.69	31.95	7.47	33.47	150	153	A	H
	*	5530	95.32	-	-	89.19	32.03	7.57	33.47	150	153	P	H
	*	5530	85.71	-	-	79.58	32.03	7.57	33.47	150	153	A	H
		5750.2	47.75	-26.25	74	41.15	32.39	7.74	33.53	150	153	P	H
		5733.72	39.44	-14.56	54	32.87	32.36	7.74	33.53	150	153	A	H
		5466.32	58.9	-15.1	74	52.95	31.95	7.47	33.47	150	360	P	V
		5467.12	50.89	-3.11	54	44.94	31.95	7.47	33.47	150	360	A	V
	*	5530	96.4	-	-	90.27	32.03	7.57	33.47	150	360	P	V
	*	5530	86.86	-	-	80.73	32.03	7.57	33.47	150	360	A	V
		5725.96	46.9	-27.1	74	40.32	32.36	7.74	33.52	150	360	P	V
		5738.2	39.33	-14.67	54	32.73	32.39	7.74	33.53	150	360	A	V
802.11ac VHT80 CH 122 5610MHz		5469.36	46.94	-27.06	74	40.99	31.95	7.47	33.47	150	153	P	H
		5468.24	38.81	-15.19	54	32.86	31.95	7.47	33.47	150	153	A	H
	*	5610	95.31	-	-	88.98	32.17	7.65	33.49	150	153	P	H
	*	5610	85.63	-	-	79.3	32.17	7.65	33.49	150	153	A	H
		5736.84	47.56	-26.44	74	40.96	32.39	7.74	33.53	150	153	P	H
		5725.88	40.18	-13.82	54	33.6	32.36	7.74	33.52	150	153	A	H
		5469.2	46.38	-27.62	74	40.43	31.95	7.47	33.47	150	360	P	V
		5459.28	39.29	-14.71	54	33.36	31.93	7.47	33.47	150	360	A	V
	*	5610	95.73	-	-	89.4	32.17	7.65	33.49	150	360	P	V
	*	5610	86.46	-	-	80.13	32.17	7.65	33.49	150	360	A	V
		5745.48	48.59	-25.41	74	41.99	32.39	7.74	33.53	150	360	P	V
		5732.2	39.86	-14.14	54	33.29	32.36	7.74	33.53	150	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11060	47.97	-26.03	74	57.14	39.44	10.98	59.59	250	0	P	H
VHT80		16590	50.78	-23.22	74	57.65	38.7	14.01	59.58	150	0	P	H
CH 106		11060	48.4	-25.6	74	57.57	39.44	10.98	59.59	250	0	P	V
5530MHz		16590	50.41	-23.59	74	57.28	38.7	14.01	59.58	150	0	P	V
802.11ac		11220	48.86	-25.14	74	58.19	39.3	11.02	59.65	250	0	P	H
VHT80		16830	50.13	-23.87	74	55.54	39.34	14.59	59.34	150	0	P	H
CH 122		11220	48.58	-25.42	74	57.91	39.3	11.02	59.65	250	0	P	V
5610MHz		16830	50.11	-23.89	74	55.52	39.34	14.59	59.34	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	(dBμV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5720	101.27	-	-	94.75	32.36	7.68	33.52	150	193	P	H
	*	5720	94.17	-	-	87.65	32.36	7.68	33.52	150	193	A	H
	*	5720	101.34	-	-	94.82	32.36	7.68	33.52	150	326	P	V
	*	5720	93.78	-	-	87.26	32.36	7.68	33.52	150	326	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	48.28	-25.72	74	57.83	39.1	11.08	59.73	250	0	P	H
		17160	50.31	-23.69	74	52.95	40.94	14.93	58.51	150	0	P	H
		11440	48.54	-25.46	74	58.09	39.1	11.08	59.73	250	0	P	V
		17160	50.25	-23.75	74	52.89	40.94	14.93	58.51	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n	*	5720	100.29	-	-	93.77	32.36	7.68	33.52	162	194	P	H
HT20	*	5720	93.12	-	-	86.6	32.36	7.68	33.52	162	194	A	H
CH 144	*	5720	102.3	-	-	95.78	32.36	7.68	33.52	217	19	P	V
5720MHz	*	5720	93.8	-	-	87.28	32.36	7.68	33.52	217	19	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11440	49.01	-24.99	74	58.56	39.1	11.08	59.73	250	0	P	H
HT20		17160	50.13	-23.87	74	52.77	40.94	14.93	58.51	150	0	P	H
CH 144		11440	48.96	-25.04	74	58.51	39.1	11.08	59.73	250	0	P	V
5720MHz		17160	49.45	-24.55	74	52.09	40.94	14.93	58.51	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n	*	5710	96.59	-	-	90.1	32.33	7.68	33.52	150	194	P	H
HT40	*	5710	89.74	-	-	83.25	32.33	7.68	33.52	150	194	A	H
CH 142	*	5710	99.08	-	-	92.59	32.33	7.68	33.52	224	20	P	V
5710MHz	*	5710	90.39	-	-	83.9	32.33	7.68	33.52	224	20	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n		11420	47.89	-26.11	74	57.42	39.12	11.08	59.73	250	0	P	H
HT40		17130	50.84	-23.16	74	53.8	40.71	14.97	58.64	150	0	P	H
CH 142		11420	48.37	-25.63	74	57.9	39.12	11.08	59.73	250	0	P	V
5710MHz		17130	50.12	-23.88	74	53.08	40.71	14.97	58.64	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5720	99.94	-	-	93.42	32.36	7.68	33.52	165	193	P	H
VHT20	*	5720	92.92	-	-	86.4	32.36	7.68	33.52	165	193	A	H
CH 144	*	5720	101.55	-	-	95.03	32.36	7.68	33.52	214	19	P	V
5720MHz	*	5720	94.27	-	-	87.75	32.36	7.68	33.52	214	19	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11440	48.38	-25.62	74	57.93	39.1	11.08	59.73	250	0	P	H
VHT20		17160	50.64	-23.36	74	53.28	40.94	14.93	58.51	150	0	P	H
CH 144		11440	47.95	-26.05	74	57.5	39.1	11.08	59.73	250	0	P	V
5720MHz		17160	50.71	-23.29	74	53.35	40.94	14.93	58.51	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac	*	5710	99.89	-	-	93.4	32.33	7.68	33.52	168	170	P	H
VHT40	*	5710	89.56	-	-	83.07	32.33	7.68	33.52	168	170	A	H
CH 142	*	5710	97.77	-	-	91.28	32.33	7.68	33.52	150	360	P	V
5710MHz	*	5710	87.95	-	-	81.46	32.33	7.68	33.52	150	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac		11420	48.29	-25.71	74	57.82	39.12	11.08	59.73	250	0	P	H
VHT40		17130	49.43	-24.57	74	52.39	40.71	14.97	58.64	150	0	P	H
CH 142		11420	48.41	-25.59	74	57.94	39.12	11.08	59.73	250	0	P	V
5710MHz		17130	48.51	-25.49	74	51.47	40.71	14.97	58.64	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5690	96.12	-	-	89.65	32.3	7.68	33.51	150	171	P	H
VHT80	*	5690	87.02	-	-	80.55	32.3	7.68	33.51	150	171	A	H
CH 138	*	5690	94.37	-	-	87.9	32.3	7.68	33.51	150	360	P	V
5690MHz	*	5690	84.99	-	-	78.52	32.3	7.68	33.51	150	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11380	49.74	-24.26	74	59.23	39.15	11.07	59.71	250	0	P	H
VHT80		17070	48.75	-25.25	74	52.36	40.25	15.04	58.9	150	0	P	H
CH 138		11380	48.46	-25.54	74	57.95	39.15	11.07	59.71	250	0	P	V
5690MHz		17070	49.93	-24.07	74	53.54	40.25	15.04	58.9	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Emission below 1GHz

## WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
WIFI 802.11ac VHT80		31.94	28.33	-11.67	40	33.27	25.84	1	31.78	100	360	P	H
		105.66	21.92	-21.58	43.5	33.62	18.48	1.38	31.56	-	-	P	H
		269.59	20.88	-25.12	46	33.08	17.28	1.83	31.31	-	-	P	H
		424.79	28.31	-17.69	46	33.51	23.8	2.22	31.22	-	-	P	H
		590.66	29.62	-16.38	46	33.86	24.42	2.57	31.23	-	-	P	H
		817.64	33.17	-12.83	46	33.78	27.65	2.99	31.25	-	-	P	H
		31.94	29.76	-10.24	40	34.7	25.84	1	31.78	100	172	P	V
		109.54	21.52	-21.98	43.5	33.28	18.41	1.38	31.55	-	-	P	V
		265.71	19.96	-26.04	46	32.3	17.13	1.83	31.3	-	-	P	V
		424.79	28.01	-17.99	46	33.21	23.8	2.22	31.22	-	-	P	V
		680.87	30	-16	46	32.47	26.04	2.71	31.22	-	-	P	V
		857.41	33.05	-12.95	46	33.13	28.15	3.03	31.26	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Note symbol**

*	<b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is <b>over limit</b> line.
P/A	<b>P</b> eak or <b>A</b> verage
H/V	<b>H</b> orizontal or <b>V</b> ertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

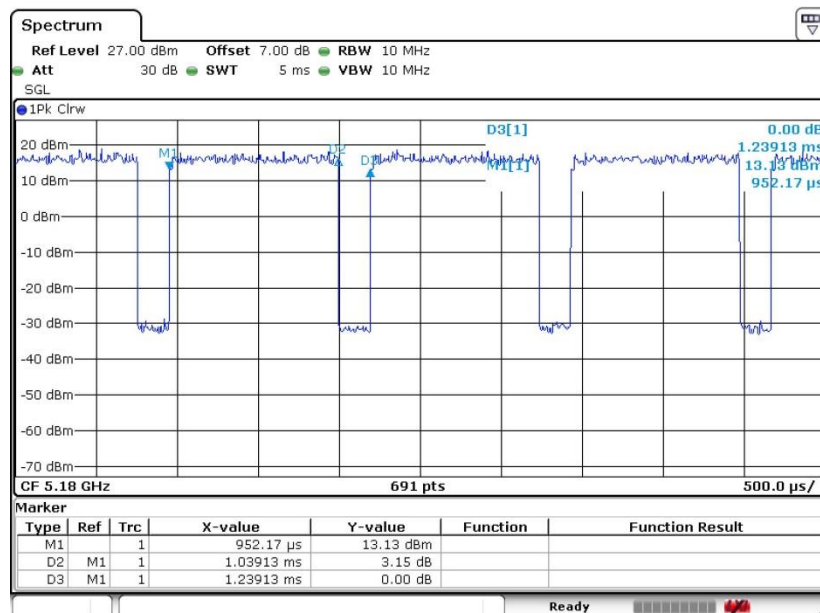
Both peak and average measured complies with the limit line, so test result is “PASS”.



## Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	83.86	1.04	0.96	1kHz
802.11n HT20	83.11	0.98	1.02	1kHz
802.11n HT40	70.80	0.49	2.05	3kHz
802.11ac VHT20	82.43	0.97	1.03	3kHz
802.11ac VHT40	70.92	0.49	2.04	3kHz
802.11ac VHT80	55.34	0.25	4.04	10kHz

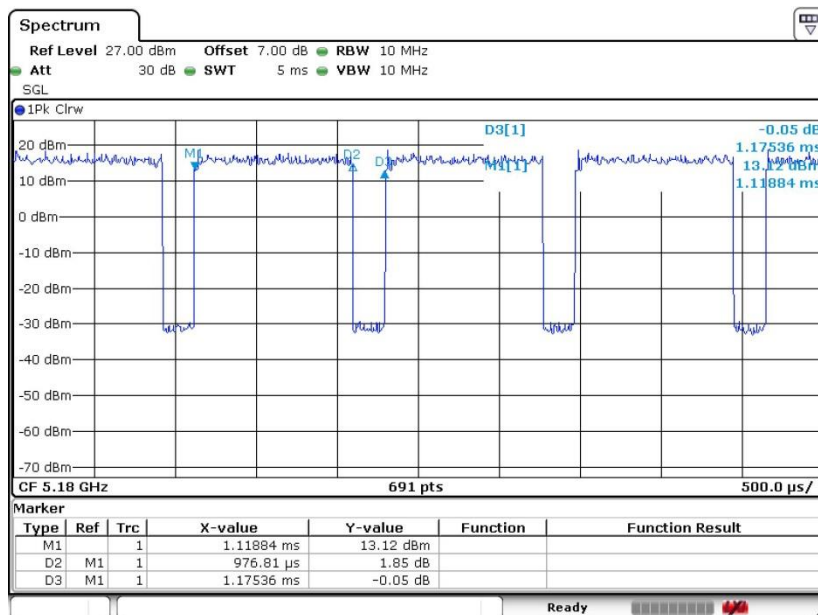
### 802.11a



Date: 17.JUN.2016 02:40:50

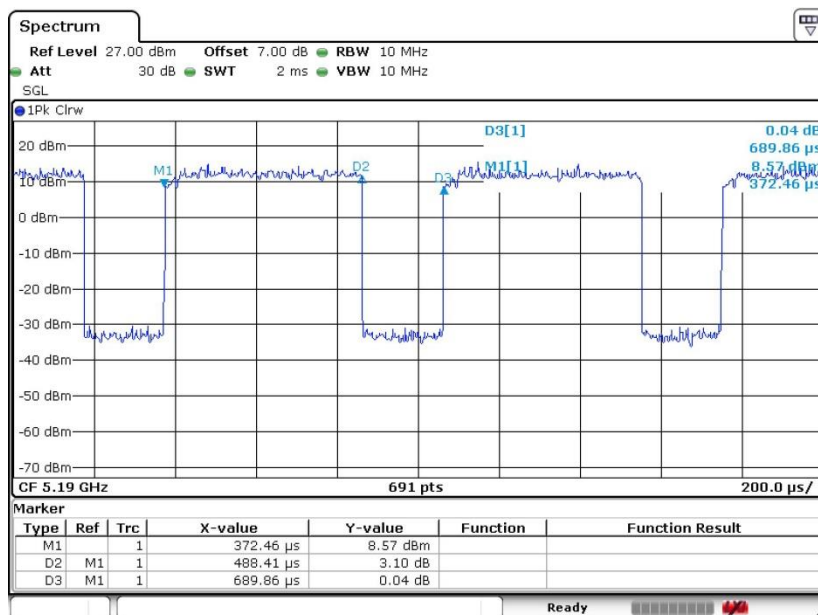


## 802.11n HT20



Date: 17 JUN 2016 02:48:04

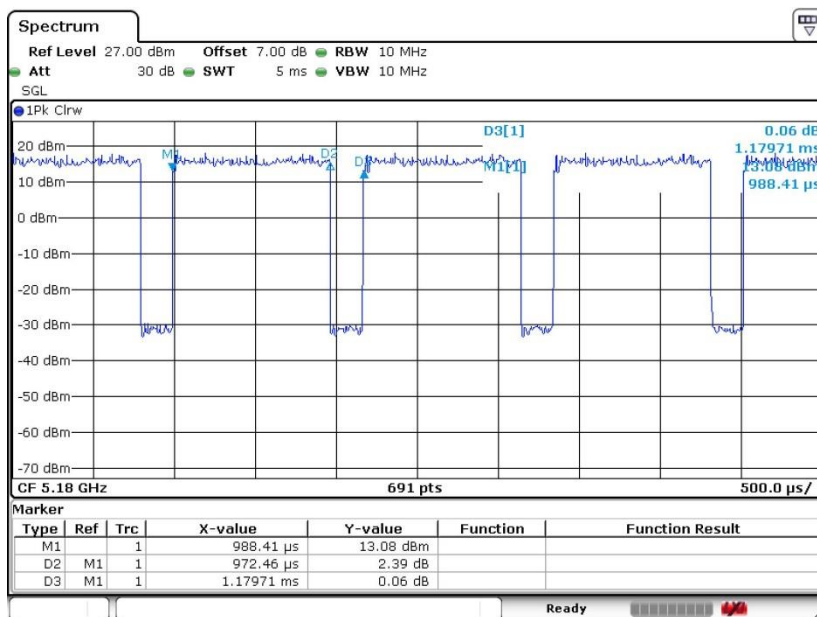
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Date: 17 JUN 2016 02:53:43

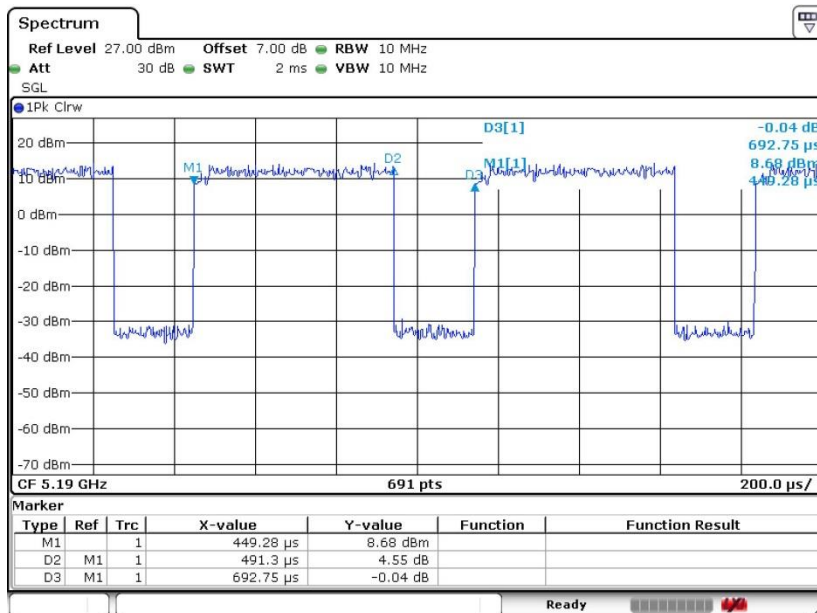


## 802.11ac VHT20



Date: 17.JUN.2016 01:35:44

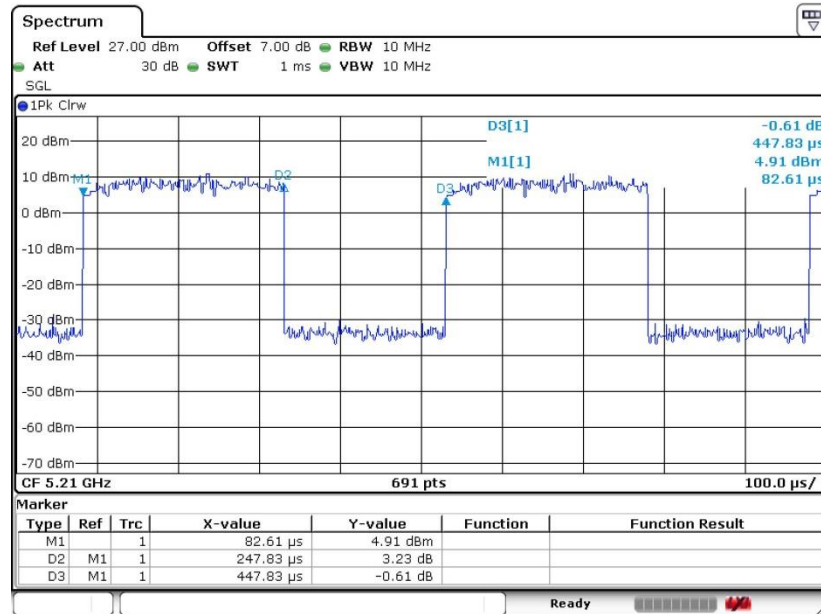
## 802.11ac VHT40



Date: 17.JUN.2016 01:52:47



802.11ac VHT80



Date: 17.JUN.2016 02:01:07