



FCC RF Test Report

APPLICANT : VERTU Corporation Limited
EQUIPMENT : GSM 4 Band/CDMA/EVDO 2 Band/TD-SCDMA
2Band/UMTS 5 Band/HSUPA/HSDPA/LTE 21
Band/WLAN/BT/NFC mobile phone
BRAND NAME : VERTU
MODEL NAME : CONSTELLATION X
TYPE NAME : VM-08
FCC ID : P7QVM-08
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Jul. 20, 2016 and testing was completed on Dec. 29, 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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FCC ID : P7QVM-08

Page Number : 1 of 42

Report Issued Date : Feb. 21, 2017

Report Version : Rev. 02

Report Template No.: BU5-FR15EWL AC MA Version 1.4



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR672003E	Rev. 01	Initial issue of report	Feb. 17, 2017
FR672003E	Rev. 02	Added note 2 about WLAN 5.5GHz 11a/n HT20/ac VHT20 doesn't support straddle channel on page 8.	Feb. 21, 2017



SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	RSS-247 Section 6	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	RSS-247 Section 6	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band) IC RSS-247 Section 6 Limit	Pass	-
3.3	15.407(a)	RSS-247 Section 6	Power Spectral Density	FCC ≤ 11 dBm/MHz (depend on band) IC RSS-247 Section 6 Limit	Pass	-
3.4	15.407(b)	RSS-247 Section 6	Unwanted Emissions	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 1.15 dB at 5725.080 MHz
3.5	15.207	RSS-Gen 8.8	AC Conducted Emission	15.207(a)	Pass	Under limit 14.56 dB at 17.291 MHz
3.6	15.407(g)	-	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	RSS-247 6.4(2)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	N/A	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

VERTU Corporation Limited

Beacon Hill Road, Church Crookham, Hampshire GU52 8DY, United Kingdom.

1.2 Manufacturer

VERTU Corporation Limited

Beacon Hill Road, Church Crookham, Hampshire GU52 8DY, United Kingdom.

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	GSM 4 Band/CDMA/EVDO 2 Band/TD-SCDMA 2Band/UMTS 5 Band/HSUPA/HSDPA/LTE 21 Band/WLAN/BT/NFC mobile phone
Brand Name	VERTU
Model Name	CONSTELLATION X
Type Name	VM-08
FCC ID	P7QVM-08
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
WCDMA Operating Band(s)	FDD Band I / II / IV / V /VIII
CDMA Operating Band(s)	CDMA2000 BC0/BC1
LTE Operating Band(s)	FDD Band 1/2/3/4/5/7/8/12/13/17/19/20/25/26/28/29/30 TDD Band 38/39/40/41
GPRS / EGPRS Multi Slot Class	GPRS Class 33, EGPRS Class 33
Wi-Fi Specification	2.4GHz 802.11b/g/n HT20 5GHz 802.11a/n HT20/HT40 5GHz 802.11ac VHT20/VHT40/VHT80
Bluetooth Version	Bluetooth v3.0 + EDR / Bluetooth v4.0 LE/ Bluetooth v4.2 LE
NFC Type	A, B, F, V
IMEI Code	Conducted: 004402550120731/004402550120749 Conduction: 004402550120376/004402550120384 Radiation: 004402550120376/004402550120384
HW Version	PIO2
SW Version	6.0.1_1.434.0.070
EUT Stage	Identical Prototype

Remark: 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

2. Manufacturer's declaration LTE band 40 disabled by software

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5710 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> <Ant. 1> 802.11a : 17.55 dBm / 0.0569 W 802.11n HT20 : 17.25 dBm / 0.0531 W 802.11n HT40 : 17.53 dBm / 0.0566 W 802.11ac VHT20 : 17.24 dBm / 0.0530 W 802.11ac VHT40 : 16.73 dBm / 0.0471 W 802.11ac VHT80 : 15.42 dBm / 0.0348 W <Ant. 2> 802.11a : 17.33 dBm / 0.0541 W 802.11n HT20 : 17.01 dBm / 0.0502 W 802.11n HT40 : 17.37 dBm / 0.0546 W 802.11ac VHT20 : 17.00 dBm / 0.0501 W 802.11ac VHT40 : 16.76 dBm / 0.0474 W 802.11ac VHT80 : 16.15 dBm / 0.0412 W MIMO <Ant. 1+2> 802.11n HT20 : 19.13 dBm / 0.0818 W 802.11n HT40 : 17.54 dBm / 0.0568 W 802.11ac VHT20 : 19.09 dBm / 0.0811 W 802.11ac VHT40 : 17.48 dBm / 0.0560 W 802.11ac VHT80 : 16.38 dBm / 0.0435 W <5260 MHz ~ 5320 MHz> <Ant. 1> 802.11a : 17.85 dBm / 0.0610 W 802.11n HT20 : 17.57 dBm / 0.0571 W 802.11n HT40 : 17.85 dBm / 0.0610 W 802.11ac VHT20 : 17.55 dBm / 0.0569 W 802.11ac VHT40 : 17.16 dBm / 0.0520 W 802.11ac VHT80 : 16.06 dBm / 0.0404 W <Ant. 2> 802.11a : 17.07 dBm / 0.0509 W 802.11n HT20 : 16.78 dBm / 0.0476 W 802.11n HT40 : 17.04 dBm / 0.0506 W 802.11ac VHT20 : 16.70 dBm / 0.0468 W 802.11ac VHT40 : 17.03 dBm / 0.0505 W 802.11ac VHT80 : 15.66 dBm / 0.0368 W MIMO <Ant. 1+2> 802.11n HT20 : 19.22 dBm / 0.0836 W 802.11n HT40 : 18.86 dBm / 0.0769 W 802.11ac VHT20 : 19.19 dBm / 0.0830 W 802.11ac VHT40 : 18.85 dBm / 0.0767 W 802.11ac VHT80 : 17.45 dBm / 0.0556 W <5500 MHz ~ 5710 MHz > <Ant. 1> 802.11a : 17.49 dBm / 0.0561 W 802.11n HT20 : 17.27 dBm / 0.0533 W 802.11n HT40 : 17.25 dBm / 0.0531 W 802.11ac VHT20 : 17.25 dBm / 0.0531 W



	802.11ac VHT40 : 17.22 dBm / 0.0527 W 802.11ac VHT80 : 15.74 dBm / 0.0375 W <Ant. 2> 802.11a : 16.47 dBm / 0.0444 W 802.11n HT20 : 17.72 dBm / 0.0592 W 802.11n HT40 : 17.01 dBm / 0.0502 W 802.11ac VHT20 : 17.62 dBm / 0.0578 W 802.11ac VHT40 : 16.99 dBm / 0.0500 W 802.11ac VHT80 : 15.31 dBm / 0.0340 W MIMO <Ant. 1+2> 802.11n HT20 : 18.94 dBm / 0.0783 W 802.11n HT40 : 17.22 dBm / 0.0527 W 802.11ac VHT20 : 18.79 dBm / 0.0757 W 802.11ac VHT40 : 17.16 dBm / 0.0520 W 802.11ac VHT80 : 16.17 dBm / 0.0414 W											
Maximum Output Power to Antenna for Straddle Channel	<Ant. 1> 802.11n HT40 : 16.71 dBm / 0.0469 W 802.11ac VHT80 : 15.60 dBm / 0.0363 W MIMO <Ant. 1+2> 802.11n HT40 : 16.57 dBm / 0.0454 W 802.11ac VHT80 : 15.56 dBm / 0.0360 W											
99% Occupied Bandwidth	<5180 MHz ~ 5240 MHz> 802.11a : 16.78 MHz 802.11n HT20 : 17.78 MHz 802.11n HT40 : 36.06 MHz 802.11ac VHT80 : 75.04 MHz <5260 MHz ~ 5320 MHz> 802.11a : 16.78 MHz 802.11n HT20 : 17.78 MHz 802.11n HT40 : 36.06 MHz 802.11ac VHT80 : 75.04 MHz <5500 MHz ~ 5710 MHz > 802.11a : 16.88 MHz 802.11n HT20 : 17.78 MHz 802.11n HT40 : 36.06 MHz 802.11ac VHT80 : 75.04 MHz											
99% Occupied Bandwidth for Straddle Channel	802.11n HT40 : 36.06 MHz 802.11ac VHT80 : 75.04 MHz											
Antenna Type / Gain	<5180 MHz ~ 5240 MHz> Ant. 1 : PIFA Antenna with gain -2.00 dBi Ant. 2 : PIFA Antenna with gain -2.00 dBi <5260 MHz ~ 5320 MHz> Ant. 1 : PIFA Antenna with gain -2.00 dBi Ant. 2 : PIFA Antenna with gain -2.00 dBi <5500 MHz ~ 5710 MHz > Ant. 1 : PIFA Antenna with gain -3.00 dBi Ant. 2 : PIFA Antenna with gain -3.00 dBi											
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)											
Antenna Function Description	<table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr><tr><td>802.11 n/ac MIMO</td><td>V</td><td>V</td></tr></table>				Ant. 1	Ant. 2	802.11 a/n/ac	V	V	802.11 n/ac MIMO	V	V
	Ant. 1	Ant. 2										
802.11 a/n/ac	V	V										
802.11 n/ac MIMO	V	V										

**Note:**

1. MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
2. WLAN 5.5GHz 11a/n HT20/ac VHT20 doesn't support straddle channel as the client declared.

1.5 Modification of EUT

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

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.			
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958			
Test Site No.	Sporton Site No.			FCC Registration No.
	TH01-KS	CO01-KS	03CH02-KS	418269

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

1.7 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 v01r03
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ANSI C63.10-2013
- IC RSS-247 Issue 1
- IC RSS-Gen Issue 4

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.

1.8 Specification of Accessory

Specification of Accessory			
AC Adapter	Brand Name	VERTU	Model Name AC-32V
	Power Rating	I/P: 100-240Vac, 450mA, O/P: 5Vdc, 2000mA	
Battery	Brand Name	VERTU	Model Name VBL-04
	Power Rating	3.82Vdc, 3200mAh	
USB Cable	Brand Name	VERTU	Model Name VC-02
	Signal Line Type	1.20m shielded cable, without ferrite core	
Earphone 1	Brand Name	VERTU	Model Name WH5-V
	Signal Line Type	1.20m Unshielded cable, without ferrite core	
Earphone 2	Brand Name	VERTU	Model Name HP-1V
	Signal Line Type	1.57m Unshielded cable, without ferrite core	
Earphone 3	Brand Name	VERTU	Model Name HP-1V
	Signal Line Type	1.55m Unshielded cable, without ferrite core	
Wireless Charger Pad	Brand Name	VERTU	Model Name AC-35V
	Power Rating	I/P: 5Vac, 1800mA	
Car Charger	Brand Name	VERTU	Model Name DC-30V
	Power Rating	I/P: 12/24Vdc, 1.35A MAX, O/P: 5.15Vdc, 2.1AMAX	
Bluetooth Travel Speaker	Brand Name	VERTU	Model Name SP-1V
	Power Rating	I/P: 5Vdc, 2Ah	
Portable Battery Charger	Brand Name	VERTU	Model Name DC-10V
	Power Rating	I/P: 5Vdc, 2A, O/P: 5Vdc, 1.5/2.1A	

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 were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5180-5240 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	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
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290	-	-

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5500-5710 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	-	-
	142*	5710	-	-

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80.

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

Single Antenna

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

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link (5G) + USB Cable (Charging from Adapter) + Earphone 1



Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5710MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5710MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5710MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5710MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

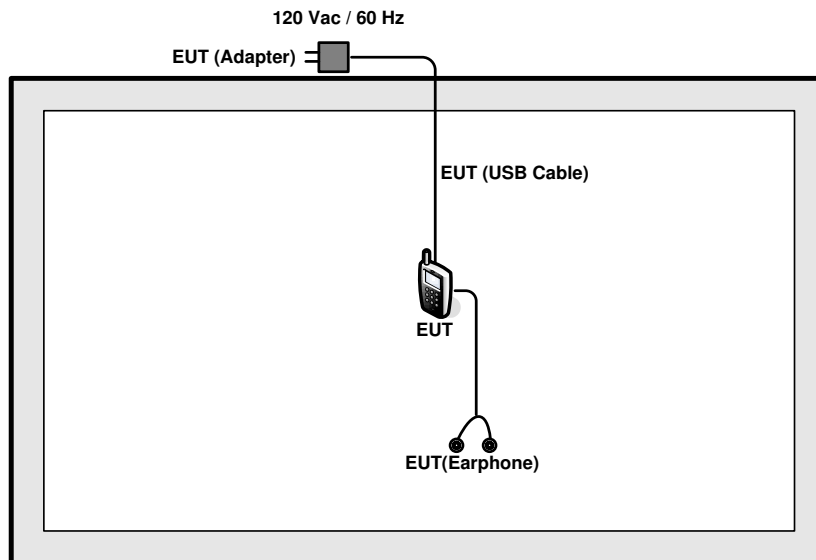
Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5710MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142



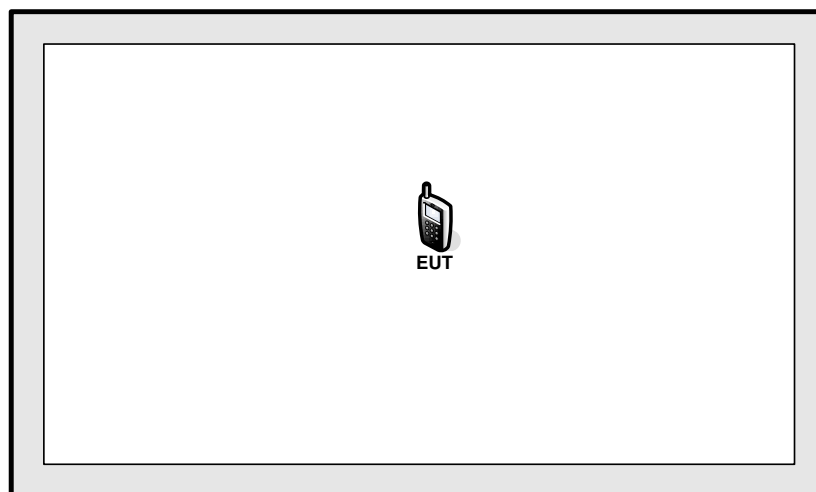
Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5710MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

2.3 Connection Diagram of Test System

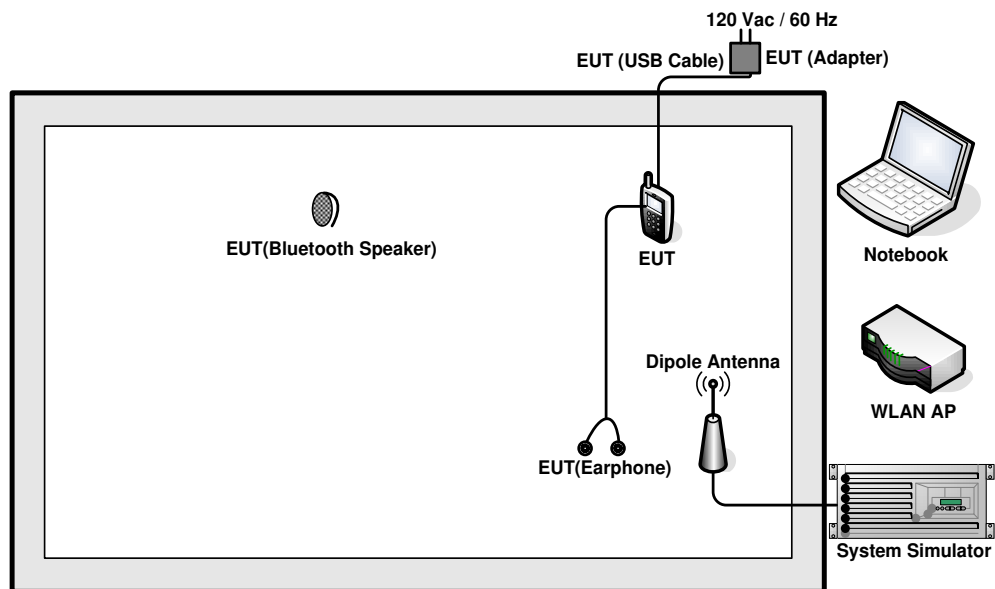
<WLAN5GHz 802.11a/ac VHT40 Straddle Channel Ant. 1+2 Tx Mode>



<WLAN5GHz 802.11n HT20 Ant. 1+2/802.11n HT40 Ant. 1+2/802.11ac VHT80 Ant. 1+2/802.11 n HT40 Straddle Channel Ant. 1+2/802.11ac VHT80 Straddle Channel Ant. 1+2 Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m

2.5 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.

2.6 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 6.9dB.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.9 \text{ (dB)}\end{aligned}$$

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 and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

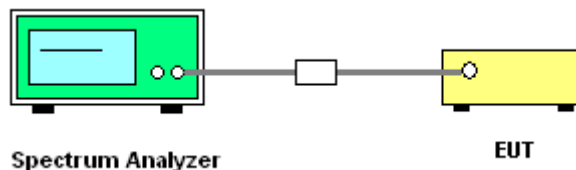
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

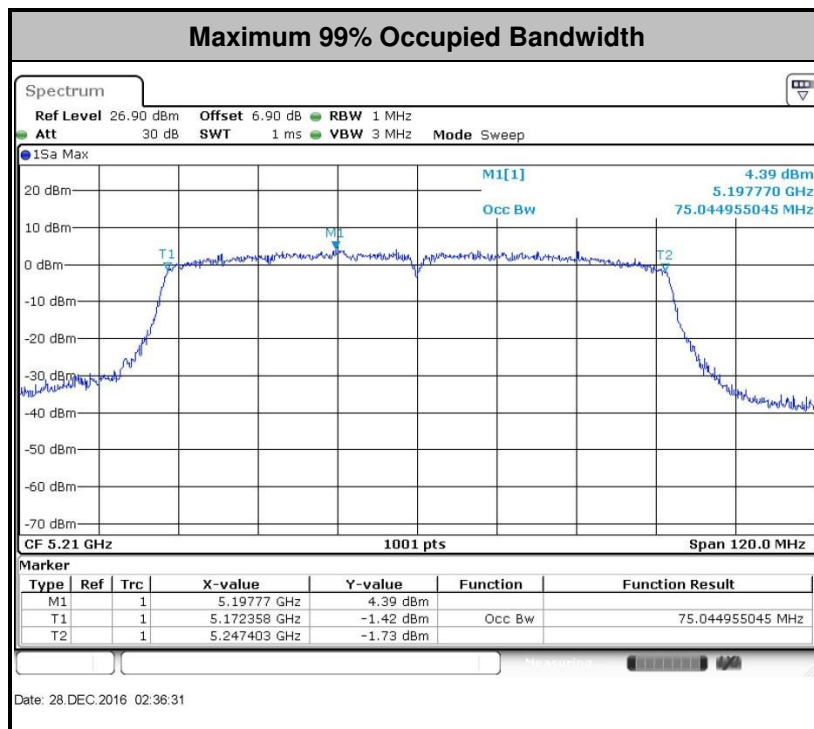
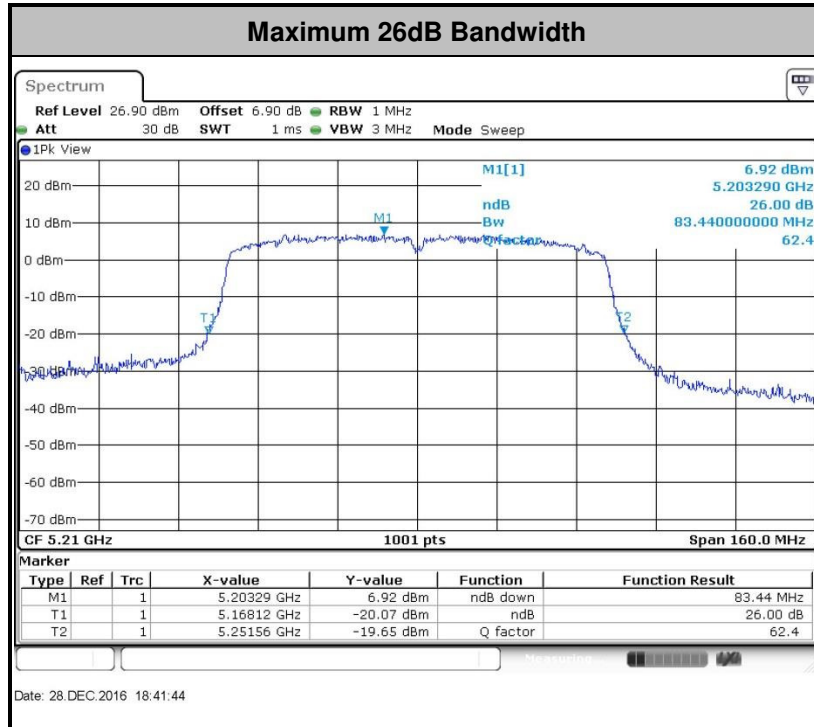
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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

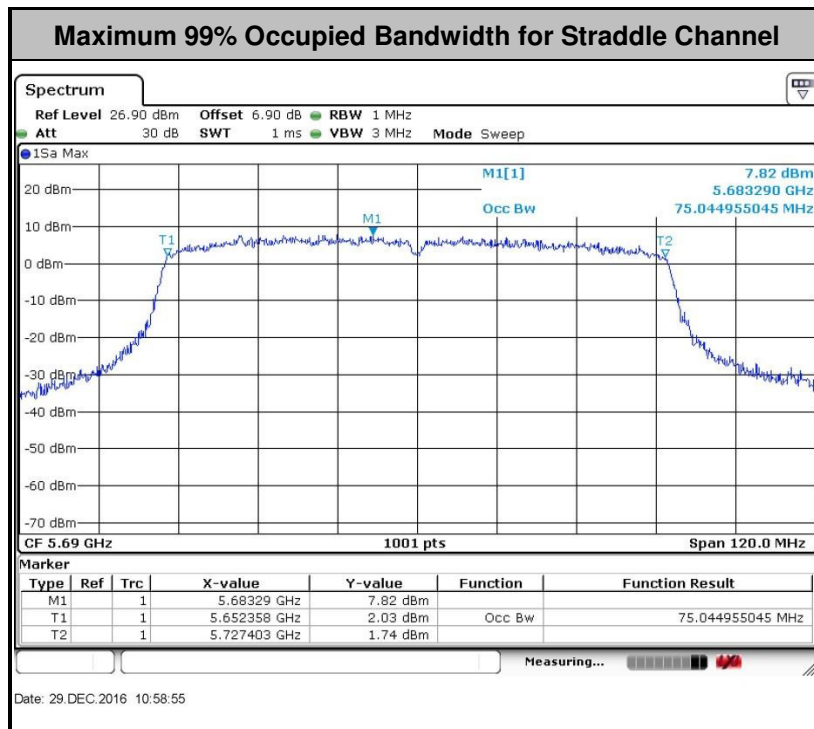
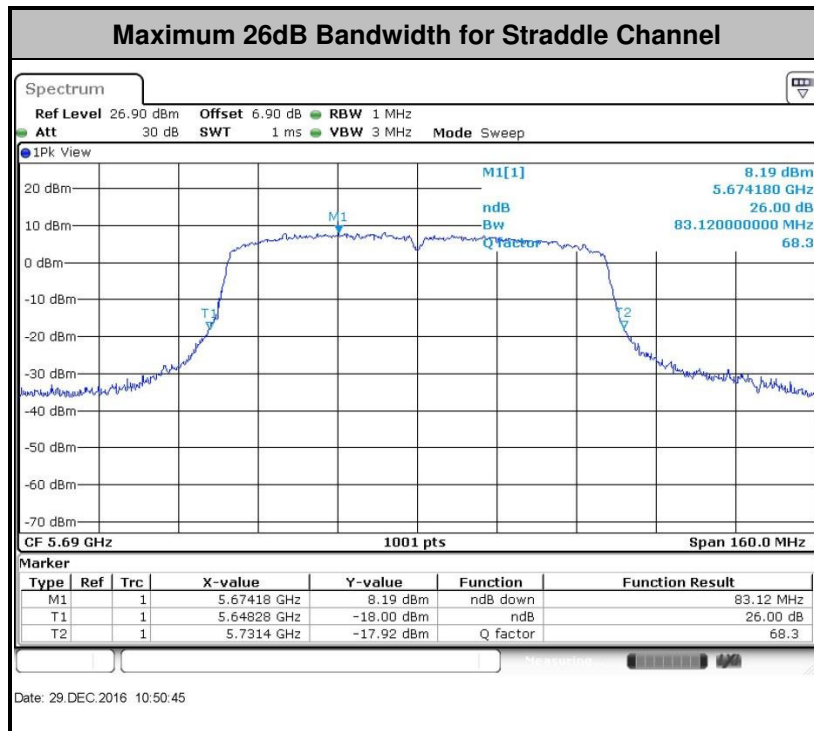


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



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



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

<FCC 14-30 CFR 15.407>

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 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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 v01r03 for CDD modes.

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

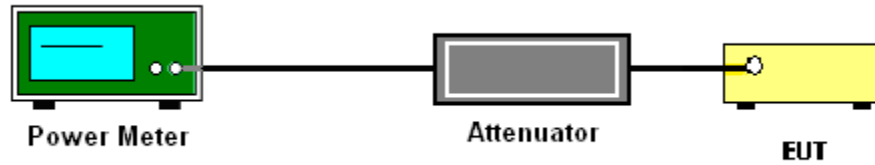
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x 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 v01r03.

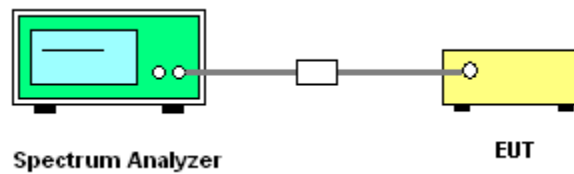
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

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.

<Ant.1>





<Ant. 1+2(1) >





<Ant. 1+2(2) >





3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

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 5.25–5.725 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 v01r03.

Section F) Maximum power spectral density.

Method SA-2

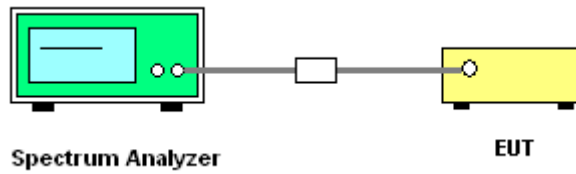
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
 - 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.
4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

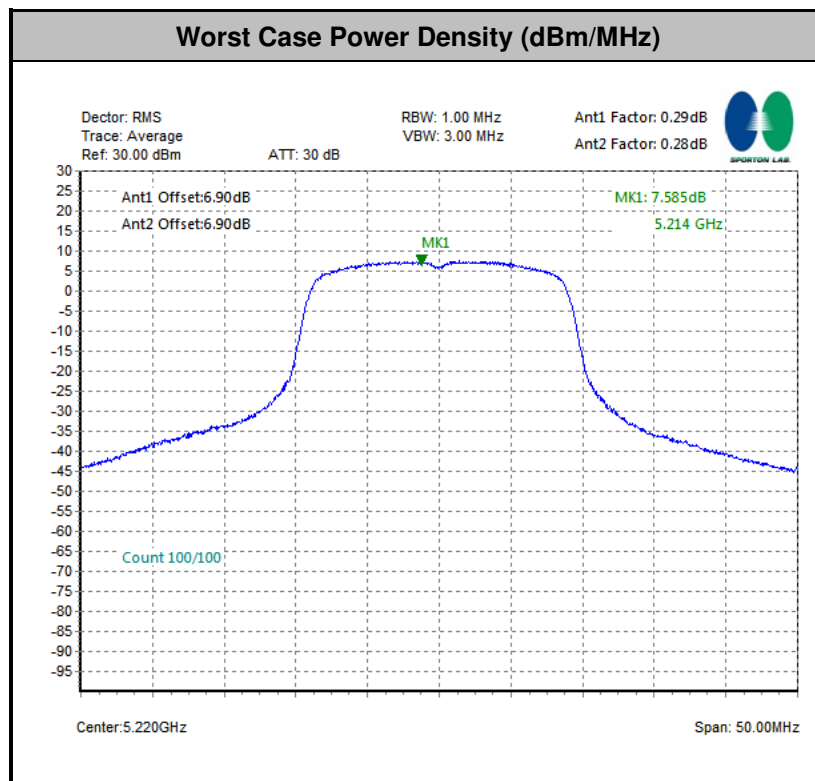
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions 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 (dBμV/m)
-17	78.3
- 27	68.3

- (3) KDB789033 D02 v01r03 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.

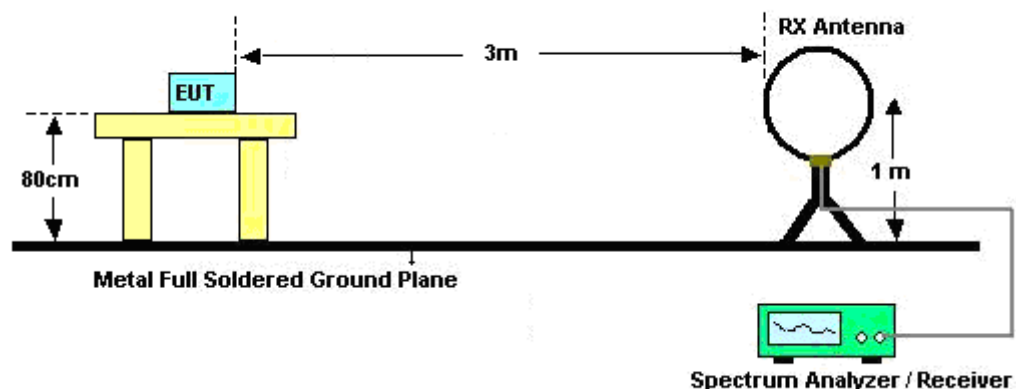
3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. 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 ≥ 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.

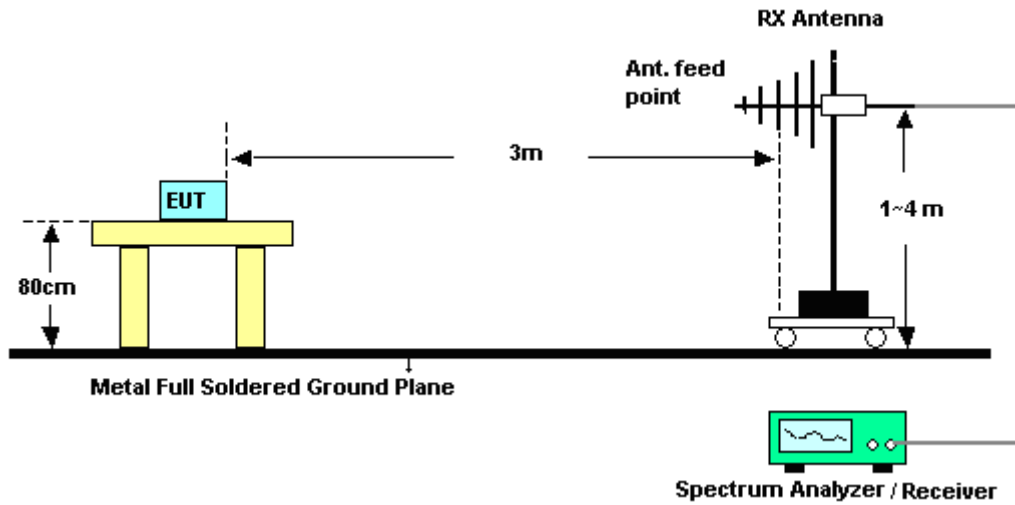
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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

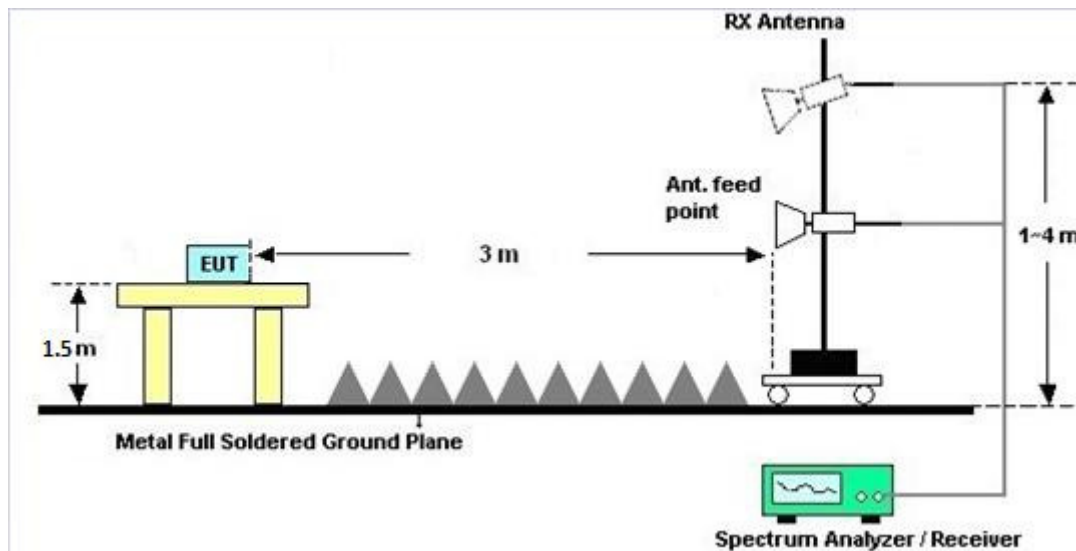
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.4.5 Test Results of Radiated Spurious 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 Spurious at Band Edges

Please refer to Appendix B.

3.4.7 Duty Cycle

Please refer to Appendix C.

3.4.8 Test Result of Radiated Spurious Emissions (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 μ 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.

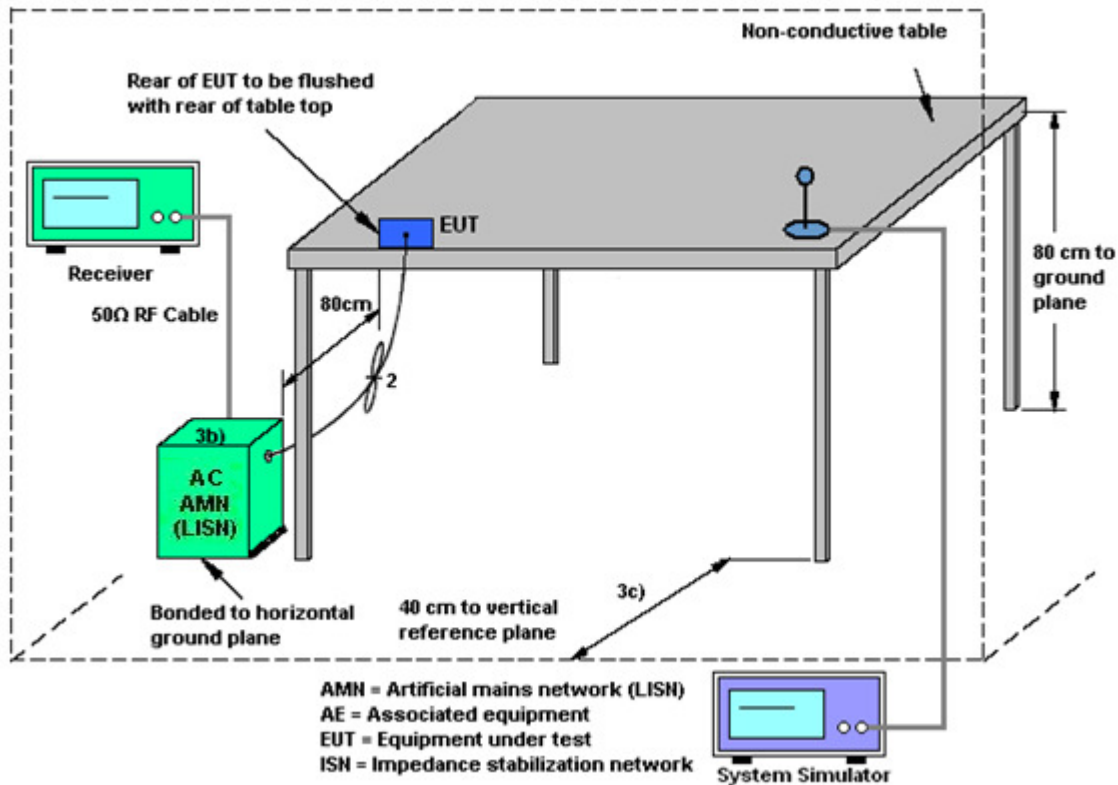
3.5.2 Measuring Instruments

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.

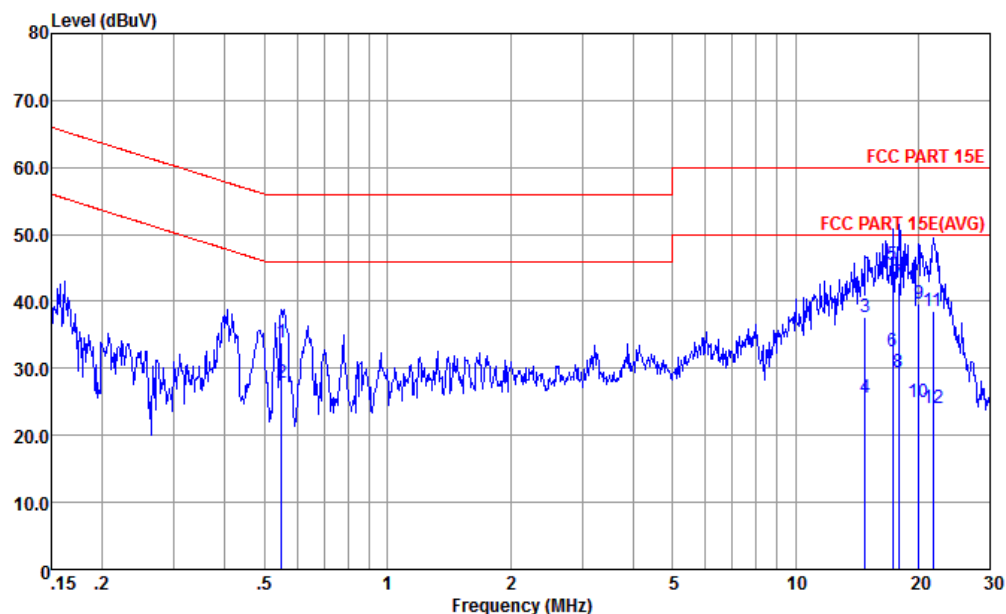
3.5.4 Test Setup





3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	22~24℃
Test Engineer :	Peter Wei	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link (5G) + USB Cable (Charging from Adapter) + Earphone 1		

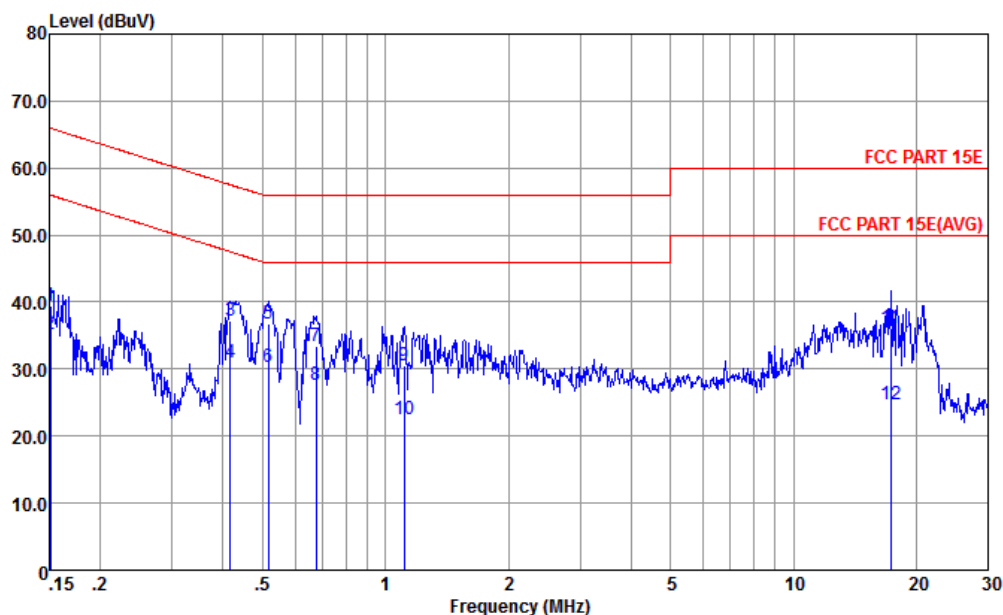


Site : CO01-KS
Condition : FCC PART 15E LISN-L-20151024 LINE
mode : Mode 1
: 004402550120376/004402550120384

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.549	33.82	-22.18	56.00	23.41	0.23	10.18	QP
2	0.549	27.92	-18.08	46.00	17.51	0.23	10.18	Average
3	14.828	37.61	-22.39	60.00	26.90	0.26	10.45	QP
4	14.828	25.71	-24.29	50.00	15.00	0.26	10.45	Average
5 *	17.291	45.44	-14.56	60.00	34.50	0.26	10.68	QP
6	17.291	32.44	-17.56	50.00	21.50	0.26	10.68	Average
7	17.944	42.80	-17.20	60.00	31.80	0.27	10.73	QP
8	17.944	29.50	-20.50	50.00	18.50	0.27	10.73	Average
9	20.056	39.57	-20.43	60.00	28.40	0.27	10.90	QP
10	20.056	25.07	-24.93	50.00	13.90	0.27	10.90	Average
11	21.715	38.49	-21.51	60.00	27.40	0.25	10.84	QP
12	21.715	24.09	-25.91	50.00	13.00	0.25	10.84	Average



Test Mode :	Mode 1	Temperature :	22~24℃
Test Engineer :	Peter Wei	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link (5G) + USB Cable (Charging from Adapter) + Earphone 1		



Site : CO01-KS
Condition : FCC PART 15E LISN-N-20151024 NEUTRAL
mode : Mode 1
: 004402550120376/004402550120384

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	39.49	-26.47	65.96	28.80	0.30	10.39	QP
2	0.151	35.29	-20.67	55.96	24.60	0.30	10.39	Average
3	0.417	37.31	-20.20	57.51	26.79	0.32	10.20	QP
4	0.417	31.01	-16.50	47.51	20.49	0.32	10.20	Average
5	0.516	36.81	-19.19	56.00	26.30	0.32	10.19	QP
6 *	0.516	30.21	-15.79	46.00	19.70	0.32	10.19	Average
7	0.675	33.52	-22.48	56.00	23.00	0.34	10.18	QP
8	0.675	27.62	-18.38	46.00	17.10	0.34	10.18	Average
9	1.111	30.56	-25.44	56.00	20.00	0.37	10.19	QP
10	1.111	22.46	-23.54	46.00	11.90	0.37	10.19	Average
11	17.291	36.04	-23.96	60.00	25.10	0.26	10.68	QP
12	17.291	24.84	-25.16	50.00	13.90	0.26	10.68	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.

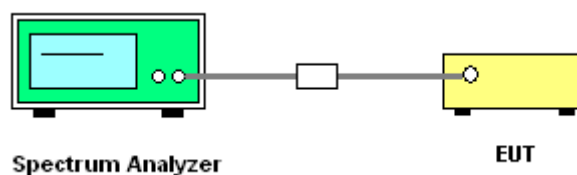
3.6.2 Measuring Instruments

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

An embedded-in antenna design is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant 1 (dBi)	Ant 2 (dBi)				
Band I	-2.00	-2.00	1.01	1.01	0.00	0.00
Band II	-2.00	-2.00	1.01	1.01	0.00	0.00
Band III	-3.00	-3.00	0.01	0.01	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 09, 2016	Dec. 05, 2016~ Dec. 29, 2016	Aug. 08, 2017	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Oct. 13, 2016	Dec. 05, 2016~ Dec. 29, 2016	Oct. 12, 2017	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 20, 2016	Dec. 05, 2016~ Dec. 29, 2016	Jan. 19, 2017	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 20, 2016	Dec. 05, 2016~ Dec. 29, 2016	Jan. 19, 2017	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 13, 2016	Dec. 05, 2016~ Dec. 29, 2016	Oct. 12, 2017	Conducted (TH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Apr. 29, 2016	Dec. 20, 2016	Apr. 28, 2017	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2016	Dec. 20, 2016	Oct. 12, 2017	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2016	Dec. 20, 2016	Oct. 12, 2017	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 13, 2016	Dec. 20, 2016	Oct. 12, 2017	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 09, 2016	Dec. 05, 2016~ Dec. 27, 2016	Aug. 08, 2017	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz, MAX 30dB	Apr. 22, 2016	Dec. 05, 2016~ Dec. 27, 2016	Apr. 21, 2017	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 23, 2016	Dec. 05, 2016~ Dec. 27, 2016	Nov. 22, 2017	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz~2GHz	Aug. 20, 2016	Dec. 05, 2016~ Dec. 27, 2016	Aug. 19, 2017	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 22, 2016	Dec. 05, 2016~ Dec. 27, 2016	Oct. 21, 2017	Radiation (03CH02-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Mar. 03, 2016	Dec. 05, 2016~ Dec. 27, 2016	Mar. 02, 2017	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	Apr. 22, 2016	Dec. 05, 2016~ Dec. 27, 2016	Apr. 21, 2017	Radiation (03CH02-KS)
HF Amplifier	Agilent	8449B	3008A02384	1GHz~26.5GHz	Oct. 13, 2016	Dec. 05, 2016~ Dec. 27, 2016	Oct. 12, 2017	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18GHz~40GHz	Jan. 20, 2016	Dec. 05, 2016~ Dec. 27, 2016	Jan. 19, 2017	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	6160100024 73	N/A	NCR	Dec. 05, 2016~ Dec. 27, 2016	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Dec. 05, 2016~ Dec. 27, 2016	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Dec. 05, 2016~ Dec. 27, 2016	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
--	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Appendix A. Conducted Test Results

Report Number : FR672003E

Test Engineer:	Silent Hai	Temperature:	21~25	°C
Test Date:	2016/12/5~2016/12/29	Relative Humidity:	51~55	%

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)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	16.78	16.73	20.58	20.83	-	-	22.25	22.24	
11a	6Mbps	1	44	5220	16.78	16.73	20.53	20.48	-	-	22.25	22.24	
11a	6Mbps	1	48	5240	16.73	16.73	20.58	20.83	-	-	22.24	22.24	
HT20	MCS0	1	36	5180	17.68	17.73	21.48	21.48	-	-	22.48	22.49	
HT20	MCS0	1	44	5220	17.73	17.73	21.53	21.58	-	-	22.49	22.49	
HT20	MCS0	1	48	5240	17.73	17.68	21.43	21.63	-	-	22.49	22.48	
HT40	MCS0	1	38	5190	36.06	35.96	41.54	41.36	-	-	23.01	23.01	
HT40	MCS0	1	46	5230	36.06	35.96	41.45	41.81	-	-	23.01	23.01	
VHT80	MCS0	1	42	5210	74.93	74.93	83.44	82.16	-	-	23.01	23.01	
HT20	MCS0	2	36	5180	17.68	17.78	21.33	21.18	-	-	22.48		
HT20	MCS0	2	44	5220	17.68	17.73	21.58	21.43	-	-	22.48		
HT20	MCS0	2	48	5240	17.68	17.68	21.58	21.48	-	-	22.48		
HT40	MCS0	2	38	5190	36.06	35.96	41.54	41.36	-	-	23.01		
HT40	MCS0	2	46	5230	36.06	35.96	41.54	41.45	-	-	23.01		
VHT80	MCS0	2	42	5210	75.04	74.81	82.64	82.16	-	-	23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.30	0.32	17.25	17.33		24.00	24.00	-2.00	-2.00	Pass
11a	6Mbps	1	44	5220	0.30	0.32	17.47	16.96		24.00	24.00	-2.00	-2.00	Pass
11a	6Mbps	1	48	5240	0.30	0.32	17.55	17.18		24.00	24.00	-2.00	-2.00	Pass
HT20	MCS0	1	36	5180	0.34	0.35	16.90	17.01		24.00	24.00	-2.00	-2.00	Pass
HT20	MCS0	1	44	5220	0.34	0.35	17.13	16.70		24.00	24.00	-2.00	-2.00	Pass
HT20	MCS0	1	48	5240	0.34	0.35	17.25	16.80		24.00	24.00	-2.00	-2.00	Pass
HT40	MCS0	1	38	5190	0.62	0.62	17.24	17.37		24.00	24.00	-2.00	-2.00	Pass
HT40	MCS0	1	46	5230	0.62	0.62	17.53	17.15		24.00	24.00	-2.00	-2.00	Pass
VHT80	MCS0	1	42	5210	1.17	1.14	15.42	16.15		24.00	24.00	-2.00	-2.00	Pass
HT20	MCS0	2	36	5180	0.29	0.28	15.82	16.06	18.95	24.00		-2.00		Pass
HT20	MCS0	2	44	5220	0.29	0.28	16.22	15.85	19.05	24.00		-2.00		Pass
HT20	MCS0	2	48	5240	0.29	0.28	16.34	15.89	19.13	24.00		-2.00		Pass
HT40	MCS0	2	38	5190	0.62	0.62	14.24	14.37	17.32	24.00		-2.00		Pass
HT40	MCS0	2	46	5230	0.62	0.62	14.97	14.03	17.54	24.00		-2.00		Pass
VHT80	MCS0	2	42	5210	1.82	1.85	13.48	13.26	16.38	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
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.30	0.32	6.41			11.00	11.00	-2.00	-2.00	Pass
11a	6Mbps	1	44	5220	0.30	0.32	6.85			11.00	11.00	-2.00	-2.00	Pass
11a	6Mbps	1	48	5240	0.30	0.32	6.67			11.00	11.00	-2.00	-2.00	Pass
HT20	MCS0	1	36	5180	0.34	0.35	5.77			11.00	11.00	-2.00	-2.00	Pass
HT20	MCS0	1	44	5220	0.34	0.35	5.96			11.00	11.00	-2.00	-2.00	Pass
HT20	MCS0	1	48	5240	0.34	0.35	6.26			11.00	11.00	-2.00	-2.00	Pass
HT40	MCS0	1	38	5190	0.62	0.62	3.12			11.00	11.00	-2.00	-2.00	Pass
HT40	MCS0	1	46	5230	0.62	0.62	3.72			11.00	11.00	-2.00	-2.00	Pass
VHT80	MCS0	1	42	5210	1.17	1.14		-0.59		11.00	11.00	-2.00	-2.00	Pass
HT20	MCS0	2	36	5180	0.29	0.28			7.14	11.00		1.01		Pass
HT20	MCS0	2	44	5220	0.29	0.28			7.59	11.00		1.01		Pass
HT20	MCS0	2	48	5240	0.29	0.28			6.89	11.00		1.01		Pass
HT40	MCS0	2	38	5190	0.62	0.62			3.54	11.00		1.01		Pass
HT40	MCS0	2	46	5230	0.62	0.62			3.55	11.00		1.01		Pass
VHT80	MCS0	2	42	5210	1.82	1.85			-0.38	11.00		1.01		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
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	16.78	16.73	20.73	20.68	23.25	23.24	29.25	29.24	23.98	23.98	
11a	6Mbps	1	60	5300	16.73	16.68	20.53	20.63	23.24	23.22	29.24	29.22	23.98	23.98	
11a	6Mbps	1	64	5320	16.73	16.78	20.83	20.83	23.24	23.25	29.24	29.25	23.98	23.98	
HT20	MCS0	1	52	5260	17.78	17.68	21.48	21.63	23.50	23.48	29.50	29.48	23.98	23.98	
HT20	MCS0	1	60	5300	17.68	17.73	21.63	21.58	23.48	23.49	29.48	29.49	23.98	23.98	
HT20	MCS0	1	64	5320	17.68	17.68	21.53	21.53	23.48	23.48	29.48	29.48	23.98	23.98	
HT40	MCS0	1	54	5270	36.06	35.86	41.81	41.72	23.98	23.98	30.00	30.00	23.98	23.98	
HT40	MCS0	1	62	5310	36.06	35.96	41.54	41.54	23.98	23.98	30.00	30.00	23.98	23.98	
VHT80	MCS0	1	58	5290	74.93	74.93	82.80	83.12	23.98	23.98	30.00	30.00	23.98	23.98	
HT20	MCS0	2	52	5260	17.68	17.73	21.73	21.38	23.48		29.48		23.98		
HT20	MCS0	2	60	5300	17.73	17.78	21.48	21.38	23.49		29.49		23.98		
HT20	MCS0	2	64	5320	17.68	17.73	21.58	21.43	23.48		29.48		23.98		
HT40	MCS0	2	54	5270	36.06	35.96	41.54	41.45	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	35.96	35.96	41.45	41.63	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.04	74.93	83.28	82.00	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)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.30	0.32	17.78	17.07		23.98	23.98	-2.00	-2.00	26.99	Pass
11a	6Mbps	1	60	5300	0.30	0.32	17.76	16.80		23.98	23.98	-2.00	-2.00	26.99	Pass
11a	6Mbps	1	64	5320	0.30	0.32	17.85	16.94		23.98	23.98	-2.00	-2.00	26.99	Pass
HT20	MCS0	1	52	5260	0.34	0.35	17.46	16.78		23.98	23.98	-2.00	-2.00	26.99	Pass
HT20	MCS0	1	60	5300	0.34	0.35	17.57	16.60		23.98	23.98	-2.00	-2.00	26.99	Pass
HT20	MCS0	1	64	5320	0.34	0.35	17.47	16.58		23.98	23.98	-2.00	-2.00	26.99	Pass
HT40	MCS0	1	54	5270	0.62	0.62	17.83	17.04		23.98	23.98	-2.00	-2.00	26.99	Pass
HT40	MCS0	1	62	5310	0.62	0.62	17.85	16.91		23.98	23.98	-2.00	-2.00	26.99	Pass
VHT80	MCS0	1	58	5290	1.17	1.14	16.06	15.66		23.98	23.98	-2.00	-2.00	26.99	Pass
HT20	MCS0	2	52	5260	0.29	0.28	16.56	15.83	19.22	23.98		-2.00		26.99	Pass
HT20	MCS0	2	60	5300	0.29	0.28	16.70	15.63	19.21	23.98		-2.00		26.99	Pass
HT20	MCS0	2	64	5320	0.29	0.28	16.60	15.62	19.15	23.98		-2.00		26.99	Pass
HT40	MCS0	2	54	5270	0.62	0.62	16.21	15.45	18.86	23.98		-2.00		26.99	Pass
HT40	MCS0	2	62	5310	0.62	0.62	16.13	15.23	18.71	23.98		-2.00		26.99	Pass
VHT80	MCS0	2	58	5290	1.82	1.85	14.97	13.83	17.45	23.98		-2.00		26.99	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
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	0.30	0.32	6.45			11.00	11.00	-2.00	-2.00	Pass
11a	6Mbps	1	60	5300	0.30	0.32	6.55			11.00	11.00	-2.00	-2.00	Pass
11a	6Mbps	1	64	5320	0.30	0.32	6.59			11.00	11.00	-2.00	-2.00	Pass
HT20	MCS0	1	52	5260	0.34	0.35	6.00			11.00	11.00	-2.00	-2.00	Pass
HT20	MCS0	1	60	5300	0.34	0.35	6.13			11.00	11.00	-2.00	-2.00	Pass
HT20	MCS0	1	64	5320	0.34	0.35	6.19			11.00	11.00	-2.00	-2.00	Pass
HT40	MCS0	1	54	5270	0.62	0.62	3.44			11.00	11.00	-2.00	-2.00	Pass
HT40	MCS0	1	62	5310	0.62	0.62	3.65			11.00	11.00	-2.00	-2.00	Pass
VHT80	MCS0	1	58	5290	1.17	1.14	-0.77			11.00	11.00	-2.00	-2.00	Pass
HT20	MCS0	2	52	5260	0.29	0.28			7.35	11.00		1.01		Pass
HT20	MCS0	2	60	5300	0.29	0.28			7.36	11.00		1.01		Pass
HT20	MCS0	2	64	5320	0.29	0.28			7.33	11.00		1.01		Pass
HT40	MCS0	2	54	5270	0.62	0.62			3.90	11.00		1.01		Pass
HT40	MCS0	2	62	5310	0.62	0.62			3.75	11.00		1.01		Pass
VHT80	MCS0	2	58	5290	1.82	1.85			0.21	11.00		1.01		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
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	100	5500	16.78	16.78	20.78	20.58	23.25	23.25	29.25	29.25	23.98	23.98	
11a	6Mbps	1	116	5580	16.88	16.68	20.88	20.68	23.27	23.22	29.27	29.22	23.98	23.98	
11a	6Mbps	1	140	5700	16.83	16.73	20.78	20.68	23.26	23.24	29.26	29.24	23.98	23.98	
HT20	MCS0	1	100	5500	17.73	17.68	21.58	21.68	23.49	23.48	29.49	29.48	23.98	23.98	
HT20	MCS0	1	116	5580	17.73	17.68	21.78	21.58	23.49	23.48	29.49	29.48	23.98	23.98	
HT20	MCS0	1	140	5700	17.78	17.73	21.83	21.53	23.50	23.49	29.50	29.49	23.98	23.98	
HT40	MCS0	1	102	5510	35.96	35.96	41.63	41.54	23.98	23.98	30.00	30.00	23.98	23.98	
HT40	MCS0	1	110	5550	36.06	35.96	42.08	41.45	23.98	23.98	30.00	30.00	23.98	23.98	
HT40	MCS0	1	134	5670	36.06	35.96	41.63	41.81	23.98	23.98	30.00	30.00	23.98	23.98	
VHT80	MCS0	1	106	5530	75.04	74.81	82.64	82.64	23.98	23.98	30.00	30.00	23.98	23.98	
VHT80	MCS0	1	122	5610	74.93	74.81	83.12	82.96	23.98	23.98	30.00	30.00	23.98	23.98	
HT20	MCS0	2	100	5500	17.68	17.73	21.58	21.48	23.48		29.48		23.98		
HT20	MCS0	2	116	5580	17.73	17.78	21.58	21.43	23.49		29.49		23.98		
HT20	MCS0	2	140	5700	17.73	17.78	21.68	21.48	23.49		29.49		23.98		
HT40	MCS0	2	102	5510	35.96	36.06	41.45	41.90	23.98		30.00		23.98		
HT40	MCS0	2	110	5550	35.96	35.96	41.54	41.81	23.98		30.00		23.98		
HT40	MCS0	2	134	5670	35.96	35.96	41.54	41.36	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	74.93	74.93	82.32	82.16	23.98		30.00		23.98		
VHT80	MCS0	2	122	5610	74.93	74.93	82.80	82.48	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)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.30	0.32	16.66	16.47		23.98	23.98	-3.00	-3.00	26.99	Pass
11a	6Mbps	1	116	5580	0.30	0.32	17.48	16.11		23.98	23.98	-3.00	-3.00	26.99	Pass
11a	6Mbps	1	140	5700	0.30	0.32	17.49	15.48		23.98	23.98	-3.00	-3.00	26.99	Pass
HT20	MCS0	1	100	5500	0.34	0.35	16.46	17.72		23.98	23.98	-3.00	-3.00	26.99	Pass
HT20	MCS0	1	116	5580	0.34	0.35	17.26	16.87		23.98	23.98	-3.00	-3.00	26.99	Pass
HT20	MCS0	1	140	5700	0.34	0.35	17.27	16.37		23.98	23.98	-3.00	-3.00	26.99	Pass
HT40	MCS0	1	102	5510	0.62	0.62	16.23	17.01		23.98	23.98	-3.00	-3.00	26.99	Pass
HT40	MCS0	1	110	5550	0.62	0.62	16.27	17.00		23.98	23.98	-3.00	-3.00	26.99	Pass
HT40	MCS0	1	134	5670	0.62	0.62	17.25	15.67		23.98	23.98	-3.00	-3.00	26.99	Pass
VHT80	MCS0	1	106	5530	1.17	1.14	14.88	15.31		23.98	23.98	-3.00	-3.00	26.99	Pass
VHT80	MCS0	1	122	5610	1.17	1.14	15.74	14.66		23.98	23.98	-3.00	-3.00	26.99	Pass
HT20	MCS0	2	100	5500	0.29	0.28	15.52	15.72	18.63	23.98		-3.00		26.99	Pass
HT20	MCS0	2	116	5580	0.29	0.28	16.80	14.83	18.94	23.98		-3.00		26.99	Pass
HT20	MCS0	2	140	5700	0.29	0.28	16.39	14.43	18.53	23.98		-3.00		26.99	Pass
HT40	MCS0	2	102	5510	0.62	0.62	14.14	13.60	16.89	23.98		-3.00		26.99	Pass
HT40	MCS0	2	110	5550	0.62	0.62	14.20	13.49	16.87	23.98		-3.00		26.99	Pass
HT40	MCS0	2	134	5670	0.62	0.62	15.45	12.45	17.22	23.98		-3.00		26.99	Pass
VHT80	MCS0	2	106	5530	1.82	1.85	13.01	12.27	15.67	23.98		-3.00		26.99	Pass
VHT80	MCS0	2	122	5610	1.82	1.85	14.07	12.01	16.17	23.98		-3.00		26.99	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
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	100	5500	0.30	0.32	6.33			11.00	11.00	-3.00	-3.00	Pass
11a	6Mbps	1	116	5580	0.30	0.32	7.22			11.00	11.00	-3.00	-3.00	Pass
11a	6Mbps	1	140	5700	0.30	0.32	7.04			11.00	11.00	-3.00	-3.00	Pass
HT20	MCS0	1	100	5500	0.34	0.35		6.52		11.00	11.00	-3.00	-3.00	Pass
HT20	MCS0	1	116	5580	0.34	0.35		6.33		11.00	11.00	-3.00	-3.00	Pass
HT20	MCS0	1	140	5700	0.34	0.35		5.95		11.00	11.00	-3.00	-3.00	Pass
HT40	MCS0	1	102	5510	0.62	0.62	2.37			11.00	11.00	-3.00	-3.00	Pass
HT40	MCS0	1	110	5550	0.62	0.62	2.43			11.00	11.00	-3.00	-3.00	Pass
HT40	MCS0	1	134	5670	0.62	0.62	3.55			11.00	11.00	-3.00	-3.00	Pass
VHT80	MCS0	1	106	5530	1.17	1.14	-1.33			11.00	11.00	-3.00	-3.00	Pass
VHT80	MCS0	1	122	5610	1.17	1.14	-1.00			11.00	11.00	-3.00	-3.00	Pass
HT20	MCS0	2	100	5500	0.29	0.28			7.56	11.00		0.01		Pass
HT20	MCS0	2	116	5580	0.29	0.28			7.52	11.00		0.01		Pass
HT20	MCS0	2	140	5700	0.29	0.28			7.44	11.00		0.01		Pass
HT40	MCS0	2	102	5510	0.62	0.62			2.92	11.00		0.01		Pass
HT40	MCS0	2	110	5550	0.62	0.62			3.03	11.00		0.01		Pass
HT40	MCS0	2	134	5670	0.62	0.62			3.39	11.00		0.01		Pass
VHT80	MCS0	2	106	5530	1.82	1.85			-1.37	11.00		0.01		Pass
VHT80	MCS0	2	122	5610	1.82	1.85			-1.64	11.00		0.01		Pass

TEST RESULTS DATA
26dB and 99% OBW

Straddle Channel																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Emission Bandwidth (MHz)		6 dB Emission Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HT40	MCS0	1	142	5710	36.06	35.86	41.54	41.72	35.09	35.09	-	-	-	-	-	-
				NII-2C	33.08	32.98	35.77	36.04	32.58	32.58	23.98	23.98	30.00	30.00	23.98	23.98
				NII-3	2.98	2.88	5.77	5.68	2.50	2.50	30.00	30.00	36.02	36.02	-	-
VHT80	MCS0	1	138	5690	75.04	74.81	83.12	83.12	75.13	75.05	-	-	-	-	-	-
				NII-2C	72.64	72.64	76.72	77.04	72.56	72.56	23.98	23.98	30.00	30.00	23.98	23.98
				NII-3	2.40	2.16	6.40	6.08	2.56	2.48	30.00	30.00	36.02	36.02	-	-
HT40	MCS0	2	142	5710	36.06	35.86	41.81	41.72	35.08	35.05	-	-	-	-	-	-
				NII-2C	33.08	32.98	36.04	35.86	32.58	32.58	23.98	23.98	30.00	30.00	23.98	23.98
				NII-3	2.982	2.882	5.769	5.859	2.503	2.463	30.00	30.00	36.02	36.02	-	-
VHT80	MCS0	2	138	5690	74.93	74.81	82.80	82.48	75.05	75.05	-	-	-	-	-	-
				NII-2C	72.64	72.64	76.56	76.72	72.56	72.56	23.98	23.98	30.00	30.00	23.98	23.98
				NII-3	2.283	2.163	6.24	5.76	2.483	2.483	30.00	30.00	36.02	36.02	-	-

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
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT40	MCS0	1	142	5710	0.62	0.62	16.71	-		-	-	-3.00	-3.00	-
				NII-2C	0.62	0.62	16.49			23.98	23.98	-3.00	-3.00	Pass
				NII-3	0.62	0.62	3.74			-	-	-3.00	-3.00	Pass
VHT80	MCS0	1	138	5690	1.17	1.14	15.60	-		-	-	-3.00	-3.00	-
				NII-2C	1.17	1.14	15.53			23.98	23.98	-3.00	-3.00	Pass
				NII-3	1.17	1.14	-2.46			-	-	-3.00	-3.00	Pass
HT40	MCS0	2	142	5710	0.62	0.62	14.53	12.30	16.57	-	-	-3.00	-3.00	-
				NII-2C	0.62	0.62	14.31	12.10	16.35	23.98	23.98	-3.00	-3.00	Pass
				NII-3	0.62	0.62	1.54	-1.18	3.40	-	-	-3.00	-3.00	Pass
VHT80	MCS0	2	138	5690	1.82	1.85	13.54	11.26	15.56	-	-	-3.00	-3.00	-
				NII-2C	1.82	1.85	13.48	11.20	15.50	23.98	23.98	-3.00	-3.00	Pass
				NII-3	1.82	1.85	-4.75	-7.43	-2.88	-	-	-3.00	-3.00	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
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT40	MCS0	1	142	NII-2C	0.62	0.62	3.43	2.07		11.00	11.00	-3.00	-3.00	Pass
				NII-3	0.62	0.62	3.43	2.07		30.00	30.00	-3.00	-3.00	Pass
VHT80	MCS0	1	138	NII-2C	1.17	1.14	-0.41	-2.02		11.00	11.00	-3.00	-3.00	Pass
				NII-3	1.17	1.14	-0.41	-2.02		30.00	30.00	-3.00	-3.00	Pass
HT40	MCS0	2	142	NII-2C	0.62	0.62			1.87	11.00		0.01		Pass
				NII-3	0.62	0.62			1.87	30.00		0.01		Pass
VHT80	MCS0	2	138	NII-2C	1.82	1.85			-2.04	11.00		0.01		Pass
				NII-3	1.82	1.85			-2.04	30.00		0.01		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	5179.925	-0.075	-14.48	50	3.82	
11a	6Mbps	1	36	5180	5180.025	0.025	4.83	-30	3.82	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	20	4.35	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	20	3.5	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	20	3.82	

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	5319.925	-0.075	-14.10	50	3.82	
11a	6Mbps	1	64	5320	5320.075	0.075	14.10	-30	3.82	
11a	6Mbps	1	64	5320	5319.975	-0.025	-4.70	20	4.35	
11a	6Mbps	1	64	5320	5319.975	-0.025	-4.70	20	3.5	
11a	6Mbps	1	64	5320	5319.975	-0.025	-4.70	20	3.82	

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	5499.975	-0.025	-4.55	50	3.82	
11a	6Mbps	1	100	5500	5500.025	0.025	4.55	-30	3.82	
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	20	4.35	
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	20	3.5	
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	20	3.82	



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		5127.04	52.16	-21.84	74	43.98	31.64	7	30.46	220	327	P	H
		5149.76	42.96	-11.04	54	34.8	31.65	7.02	30.51	220	327	A	H
	*	5182	103.59	-	-	95.45	31.67	7.06	30.59	220	327	P	H
	*	5182	96.41	-	-	88.27	31.67	7.06	30.59	220	327	A	H
		5149.44	54.86	-19.14	74	46.7	31.65	7.02	30.51	114	3	P	V
		5149.6	44.63	-9.37	54	36.47	31.65	7.02	30.51	114	3	A	V
	*	5176	106.05	-	-	97.91	31.67	7.06	30.59	114	3	P	V
	*	5176	98.82	-	-	90.68	31.67	7.06	30.59	114	3	A	V
802.11a CH 44 5220MHz		5121.76	49.87	-24.13	74	41.68	31.63	6.98	30.42	210	340	P	H
		5132.48	41.18	-12.82	54	33	31.64	7	30.46	210	340	A	H
	*	5220	103.44	-	-	95.26	31.68	7.11	30.61	210	340	P	H
	*	5220	96.51	-	-	88.33	31.68	7.11	30.61	210	340	A	H
		5351.4	48.72	-25.28	74	40.09	31.73	7.3	30.4	210	340	P	H
		5396.94	39.82	-14.18	54	31.03	31.74	7.37	30.32	210	340	A	H
		5119.68	50.73	-23.27	74	42.54	31.63	6.98	30.42	208	0	P	V
		5111.68	41.32	-12.68	54	33.13	31.63	6.98	30.42	208	0	A	V
	*	5222	105.65	-	-	97.47	31.68	7.11	30.61	208	0	P	V
	*	5222	98.17	-	-	89.99	31.68	7.11	30.61	208	0	A	V
		5387.22	49.13	-24.87	74	40.4	31.74	7.34	30.35	208	0	P	V
		5397.12	40.03	-13.97	54	31.24	31.74	7.37	30.32	208	0	A	V



802.11a CH 48 5240MHz		5379.3	49.67	-24.33	74	40.94	31.74	7.34	30.35	210	340	P	H
		5390.82	40	-14	54	31.27	31.74	7.34	30.35	210	340	A	H
	*	5240	104.14	-	-	95.9	31.69	7.13	30.58	210	340	P	H
	*	5240	96.9	-	-	88.66	31.69	7.13	30.58	210	340	A	H
		5399.1	49.12	-24.88	74	40.33	31.74	7.37	30.32	100	0	P	V
		5391.54	40.07	-13.93	54	31.34	31.74	7.34	30.35	100	0	A	V
	*	5242	105.34	-	-	97.05	31.69	7.16	30.56	100	0	P	V
	*	5242	98.68	-	-	90.39	31.69	7.16	30.56	100	0	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		10360	45.21	-28.79	74	53.8	38.76	9.9	57.25	100	360	P	H
CH 36		10360	45.26	-28.74	74	53.85	38.76	9.9	57.25	100	360	P	V
5180MHz													
802.11a		10440	46.69	-27.31	74	54.99	38.88	9.94	57.12	100	360	P	H
CH 44		10440	44.31	-29.69	74	52.61	38.88	9.94	57.12	100	360	P	V
5220MHz													
802.11a		10480	46.91	-27.09	74	55	38.96	9.97	57.02	100	360	P	H
CH 48		10480	45.87	-28.13	74	53.96	38.96	9.97	57.02	100	360	P	V
5240MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

Band 2 - 5250~5350MHz

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 52 5260MHz		5130.88	50.62	-23.38	74	42.44	31.64	7	30.46	228	334	P	H
		5134.08	41.36	-12.64	54	33.18	31.64	7	30.46	228	334	A	H
	*	5258	104.86	-	-	96.57	31.69	7.16	30.56	228	334	P	H
	*	5258	97.07	-	-	88.78	31.69	7.16	30.56	228	334	A	H
		5130.24	51.23	-22.77	74	43.05	31.64	7	30.46	100	2	P	V
		5110.4	41.65	-12.35	54	33.46	31.63	6.98	30.42	100	2	A	V
	*	5256	106.17	-	-	97.88	31.69	7.16	30.56	100	2	P	V
	*	5256	98.96	-	-	90.67	31.69	7.16	30.56	100	2	A	V
802.11a CH 60 5300MHz		5110.4	50.33	-23.67	74	42.14	31.63	6.98	30.42	231	360	P	H
		5125.92	40.85	-13.15	54	32.67	31.64	7	30.46	231	360	A	H
	*	5298	102.56	-	-	94.1	31.71	7.23	30.48	231	360	P	H
	*	5298	95.56	-	-	87.1	31.71	7.23	30.48	231	360	A	H
		5353	50.71	-23.29	74	42.08	31.73	7.3	30.4	231	360	P	H
		5350.3	40.55	-13.45	54	31.92	31.73	7.3	30.4	231	360	A	H
		5132.8	51.04	-22.96	74	42.86	31.64	7	30.46	106	2	P	V
		5100.96	41.31	-12.69	54	33.12	31.61	6.95	30.37	106	2	A	V
	*	5302	105.45	-	-	96.99	31.71	7.23	30.48	106	2	P	V
	*	5302	98.9	-	-	90.44	31.71	7.23	30.48	106	2	A	V
		5354	50.54	-23.46	74	41.91	31.73	7.3	30.4	106	2	P	V
		5350.3	41.45	-12.55	54	32.82	31.73	7.3	30.4	106	2	A	V



802.11a CH 64 5320MHz	*	5320	103.96	-	-	95.44	31.72	7.25	30.45	171	343	P	H
	*	5320	96.7	-	-	88.18	31.72	7.25	30.45	171	343	A	H
		5356.6	50.82	-23.18	74	42.19	31.73	7.3	30.4	171	343	P	H
		5350	42.42	-11.58	54	33.79	31.73	7.3	30.4	171	343	A	H
	*	5320	105.67	-	-	97.15	31.72	7.25	30.45	107	12	P	V
	*	5320	98.4	-	-	89.88	31.72	7.25	30.45	107	12	A	V
		5350.5	53.26	-20.74	74	44.63	31.73	7.3	30.4	107	12	P	V
		5350.5	43.69	-10.31	54	35.06	31.73	7.3	30.4	107	12	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (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		10520	46.02	-27.98	74	53.96	39.01	10	56.95	100	360	P	H
CH 52 5260MHz		10520	44.89	-29.11	74	52.83	39.01	10	56.95	100	360	P	V
802.11a		10600	46.13	-27.87	74	53.76	39.1	10.05	56.78	100	360	P	H
CH 60 5300MHz		10600	44.28	-29.72	74	51.91	39.1	10.05	56.78	100	360	P	V
802.11a		10640	46.19	-27.81	74	53.69	39.14	10.07	56.71	100	360	P	H
CH 64 5320MHz		10640	44.65	-29.35	74	52.15	39.14	10.07	56.71	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

Band 3 - 5470~5725MHz

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 100 5500MHz		5467.28	55.19	-18.81	74	46.4	31.84	7.37	30.42	184	22	P	H
		5470	45.19	-8.81	54	36.4	31.84	7.37	30.42	184	22	A	H
	*	5504	102.81	-	-	94.03	31.88	7.37	30.47	184	22	P	H
	*	5504	96.75	-	-	87.97	31.88	7.37	30.47	184	22	A	H
		5466.64	55.38	-18.62	74	46.59	31.84	7.37	30.42	100	345	P	V
		5470	45.09	-8.91	54	36.3	31.84	7.37	30.42	100	345	A	V
	*	5502	103.02	-	-	94.24	31.88	7.37	30.47	100	345	P	V
	*	5502	96.22	-	-	87.44	31.88	7.37	30.47	100	345	A	V
802.11a CH 116 5580MHz		5446.8	49.4	-24.6	74	40.61	31.81	7.37	30.39	178	23	P	H
		5462.48	40.13	-13.87	54	31.34	31.81	7.37	30.39	178	23	A	H
	*	5582	103.9	-	-	95.12	32.01	7.36	30.59	178	23	P	H
	*	5582	96.75	-	-	87.97	32.01	7.36	30.59	178	23	A	H
		5730.92	50.29	-23.71	74	40.95	32.27	7.52	30.45	178	23	P	H
		5758.04	41.25	-12.75	54	31.77	32.33	7.56	30.41	178	23	A	H
		5384.4	49.67	-24.33	74	40.94	31.74	7.34	30.35	120	24	P	V
		5460	40.18	-13.82	54	31.39	31.81	7.37	30.39	120	24	A	V
	*	5578	104.21	-	-	95.43	31.98	7.36	30.56	120	24	P	V
	*	5578	97.21	-	-	88.43	31.98	7.36	30.56	120	24	A	V
		5760.36	49.59	-24.41	74	40.11	32.33	7.56	30.41	120	24	P	V
		5755.64	41.08	-12.92	54	31.6	32.33	7.56	30.41	120	24	A	V



802.11a CH 140 5700MHz	*	5698	102.68	-	-	93.51	32.2	7.47	30.5	194	16	P	H
	*	5698	95.4	-	-	86.23	32.2	7.47	30.5	194	16	A	H
		5726.84	59.93	-14.07	74	50.59	32.27	7.52	30.45	194	16	P	H
	!	5725.08	50.24	-3.76	54	40.9	32.27	7.52	30.45	194	16	A	H
	*	5696	105.14	-	-	95.97	32.2	7.47	30.5	100	349	P	V
	*	5696	97.54			88.37	32.2	7.47	30.5	100	349	A	V
	!	5726.04	68.86	-5.14	74	59.52	32.27	7.52	30.45	100	349	P	V
	!	5725.08	52.85	-1.15	54	43.51	32.27	7.52	30.45	100	349	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (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		11000	46.93	-27.07	74	53.09	39.53	10.31	56	100	360	P	H
CH 100		11000	45.3	-28.7	74	51.46	39.53	10.31	56	100	360	P	V
5500MHz													
802.11a		11160	46.1	-27.9	74	52.6	39.42	10.42	56.34	100	360	P	H
CH 116		11160	45.41	-28.59	74	51.91	39.42	10.42	56.34	100	360	P	V
5580MHz													
802.11a		11400	44.23	-29.77	74	51.2	39.27	10.57	56.81	100	360	P	H
CH 140		11400	44	-30	74	50.97	39.27	10.57	56.81	100	360	P	V
5700MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

Emission below 1GHz

WIFI 802.11a (LF @ 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 LF		34.85	26.16	-13.84	40	30.1	25.9	0.65	30.49	-	-	P	H
		62.01	24.6	-15.4	40	40.52	13.26	0.86	30.04	-	-	P	H
		90.14	29.79	-13.71	43.5	40.73	17.7	1.01	29.65	-	-	P	H
		159.98	32.02	-11.48	43.5	41.25	18.29	1.33	28.85	-	-	P	H
		209.45	34.98	-8.52	43.5	44.6	17.12	1.55	28.29	126	87	P	H
		796.3	32.06	-13.94	46	25.62	29.04	2.96	25.56	-	-	P	H
		30	34.53	-5.47	40	37.68	26.7	0.65	30.5	-	-	P	V
		33.88	34.88	-5.12	40	38.66	26.06	0.65	30.49	106	249	P	V
		54.25	29.33	-10.67	40	43.23	15.46	0.8	30.16	-	-	P	V
		161.92	24.82	-18.68	43.5	34.08	18.22	1.34	28.82	-	-	P	V
		209.45	30.63	-12.87	43.5	40.25	17.12	1.55	28.29	-	-	P	V
		808.91	31.18	-14.82	46	24.77	28.99	2.98	25.56	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.92	53.72	-20.28	74	45.56	31.65	7.02	30.51	308	65	P	H
		5150	43.5	-10.5	54	35.34	31.65	7.02	30.51	308	65	A	H
	*	5178	103.81	-	-	95.67	31.67	7.06	30.59	308	65	P	H
	*	5178	96.15	-	-	88.01	31.67	7.06	30.59	308	65	A	H
		5146.88	54.19	-19.81	74	46.03	31.65	7.02	30.51	100	35	P	V
		5150	44.99	-9.01	54	36.83	31.65	7.02	30.51	100	35	A	V
	*	5176	106.57	-	-	98.43	31.67	7.06	30.59	100	35	P	V
	*	5176	99.28	-	-	91.14	31.67	7.06	30.59	100	35	A	V
802.11a CH 44 5220MHz		5118.24	50.43	-23.57	74	42.24	31.63	6.98	30.42	298	67	P	H
		5125.12	41.24	-12.76	54	33.06	31.64	7	30.46	298	67	A	H
	*	5222	103.08	-	-	94.9	31.68	7.11	30.61	298	67	P	H
	*	5222	95.26	-	-	87.08	31.68	7.11	30.61	298	67	A	H
		5359.68	48.64	-25.36	74	40.01	31.73	7.3	30.4	298	67	P	H
		5391.18	39.91	-14.09	54	31.18	31.74	7.34	30.35	298	67	A	H
		5148.8	50.78	-23.22	74	42.62	31.65	7.02	30.51	100	37	P	V
		5127.04	41.32	-12.68	54	33.14	31.64	7	30.46	100	37	A	V
	*	5224	106.77	-	-	98.59	31.68	7.11	30.61	100	37	P	V
	*	5224	99.75	-	-	91.57	31.68	7.11	30.61	100	37	A	V
		5395.32	49.15	-24.85	74	40.36	31.74	7.37	30.32	100	37	P	V
		5394.24	40	-14	54	31.27	31.74	7.34	30.35	100	37	A	V



802.11a CH 48 5240MHz		5383.98	49.87	-24.13	74	41.14	31.74	7.34	30.35	297	63	P	H
		5390.1	39.94	-14.06	54	31.21	31.74	7.34	30.35	297	63	A	H
	*	5242	102.95	-	-	94.66	31.69	7.16	30.56	297	63	P	H
	*	5242	95.45	-	-	87.16	31.69	7.16	30.56	297	63	A	H
		5379.84	49.4	-24.6	74	40.67	31.74	7.34	30.35	100	38	P	V
		5383.8	40.31	-13.69	54	31.58	31.74	7.34	30.35	100	38	A	V
	*	5240	107.22	-	-	98.98	31.69	7.13	30.58	100	38	P	V
	*	5240	99.89	-	-	91.65	31.69	7.13	30.58	100	38	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. 2	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		10360	44.12	-29.88	74	52.71	38.76	9.9	57.25	100	360	P	H
CH 36 5180MHz		10360	44.57	-29.43	74	53.16	38.76	9.9	57.25	100	360	P	V
802.11a		10440	45.04	-28.96	74	53.34	38.88	9.94	57.12	100	360	P	H
CH 44 5220MHz		10440	44.61	-29.39	74	52.91	38.88	9.94	57.12	100	360	P	V
802.11a		10480	44.52	-29.48	74	52.61	38.96	9.97	57.02	100	360	P	H
CH 48 5240MHz		10480	44.91	-29.09	74	53	38.96	9.97	57.02	100	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 802.11a (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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5104.8	50.58	-23.42	74	42.39	31.61	6.95	30.37	300	63	P	H
		5113.92	41.31	-12.69	54	33.12	31.63	6.98	30.42	300	63	A	H
	*	5262	102.16	-	-	93.81	31.7	7.18	30.53	300	63	P	H
	*	5262	94.74	-	-	86.39	31.7	7.18	30.53	300	63	A	H
		5111.36	50.96	-23.04	74	42.77	31.63	6.98	30.42	100	37	P	V
		5111.2	41.34	-12.66	54	33.15	31.63	6.98	30.42	100	37	A	V
	*	5264	107.76	-	-	99.41	31.7	7.18	30.53	100	37	P	V
	*	5264	99.99	-	-	91.64	31.7	7.18	30.53	100	37	A	V
802.11a CH 60 5300MHz		5106.4	51.28	-22.72	74	43.09	31.63	6.98	30.42	306	70	P	H
		5111.68	41.25	-12.75	54	33.06	31.63	6.98	30.42	306	70	A	H
	*	5296	101.88	-	-	93.42	31.71	7.23	30.48	306	70	P	H
	*	5296	94.65	-	-	86.19	31.71	7.23	30.48	306	70	A	H
		5354	50.27	-23.73	74	41.64	31.73	7.3	30.4	306	70	P	H
		5351.8	40.01	-13.99	54	31.38	31.73	7.3	30.4	306	70	A	H
		5124.8	50.22	-23.78	74	42.04	31.64	7	30.46	100	38	P	V
		5108.64	41.26	-12.74	54	33.07	31.63	6.98	30.42	100	38	A	V
	*	5296	106.19	-	-	97.73	31.71	7.23	30.48	100	38	P	V
	*	5296	99.48	-	-	91.02	31.71	7.23	30.48	100	38	A	V
		5370.8	50.38	-23.62	74	41.71	31.73	7.32	30.38	100	38	P	V
		5351.6	41.41	-12.59	54	32.78	31.73	7.3	30.4	100	38	A	V



802.11a CH 64 5320MHz	*	5322	102.25	-	-	93.73	31.72	7.25	30.45	340	71	P	H
	*	5322	94.64	-	-	86.12	31.72	7.25	30.45	340	71	A	H
		5369.7	49.78	-24.22	74	41.11	31.73	7.32	30.38	340	71	P	H
		5350.2	41.26	-12.74	54	32.63	31.73	7.3	30.4	340	71	A	H
	*	5316	107.23	-	-	98.71	31.72	7.25	30.45	110	37	P	V
	*	5316	99.59	-	-	91.07	31.72	7.25	30.45	110	37	A	V
		5354	51.94	-22.06	74	43.31	31.73	7.3	30.4	110	37	P	V
		5368.1	44.13	-9.87	54	35.46	31.73	7.32	30.38	110	37	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	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		10520	44.97	-29.03	74	52.91	39.01	10	56.95	100	360	P	H
CH 52 5260MHz		10520	45.19	-28.81	74	53.13	39.01	10	56.95	100	360	P	V
802.11a		10600	44.32	-29.68	74	51.95	39.1	10.05	56.78	100	360	P	H
CH 60 5300MHz		10600	45.84	-28.16	74	53.47	39.1	10.05	56.78	100	360	P	V
802.11a		10640	44.33	-29.67	74	51.83	39.14	10.07	56.71	100	360	P	H
CH 64 5320MHz		10640	45.38	-28.62	74	52.88	39.14	10.07	56.71	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

Band 3 - 5470~5725MHz

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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5469.68	51.82	-22.18	74	43.03	31.84	7.37	30.42	319	64	P	H
		5470	42.06	-11.94	54	33.27	31.84	7.37	30.42	319	64	A	H
	*	5498	100.21	-	-	91.43	31.88	7.37	30.47	319	64	P	H
	*	5498	92.97	-	-	84.19	31.88	7.37	30.47	319	64	A	H
		5468.56	55.34	-18.66	74	46.55	31.84	7.37	30.42	100	36	P	V
		5469.68	46.42	-7.58	54	37.63	31.84	7.37	30.42	100	36	A	V
	*	5500	106.1	-	-	97.32	31.88	7.37	30.47	100	36	P	V
	*	5500	98.9	-	-	90.12	31.88	7.37	30.47	100	36	A	V
802.11a CH 116 5580MHz		5432.72	49.33	-24.67	74	40.54	31.79	7.37	30.37	296	57	P	H
		5455.6	40.01	-13.99	54	31.22	31.81	7.37	30.39	296	57	A	H
	*	5578	101.47	-	-	92.69	31.98	7.36	30.56	296	57	P	H
	*	5578	93.65	-	-	84.87	31.98	7.36	30.56	296	57	A	H
		5735.48	50.24	-23.76	74	40.83	32.3	7.54	30.43	296	57	P	H
		5753.56	41.1	-12.9	54	31.62	32.33	7.56	30.41	296	57	A	H
		5461.84	50.34	-23.66	74	41.55	31.81	7.37	30.39	120	24	P	V
		5462.16	40.3	-13.7	54	31.51	31.81	7.37	30.39	120	24	A	V
	*	5578	105.6	-	-	96.82	31.98	7.36	30.56	120	24	P	V
	*	5578	98.67	-	-	89.89	31.98	7.36	30.56	120	24	A	V
		5741.56	50.25	-23.75	74	40.84	32.3	7.54	30.43	120	24	P	V
		5748.84	41.26	-12.74	54	31.85	32.3	7.54	30.43	120	24	A	V



802.11a CH 140 5700MHz	*	5704	104	-	-	94.76	32.23	7.49	30.48	305	272	P	H
	*	5704	95.97	-	-	86.73	32.23	7.49	30.48	305	272	A	H
		5725.56	62.17	-11.83	74	52.83	32.27	7.52	30.45	305	272	P	H
	!	5725	48.44	-5.56	54	39.1	32.27	7.52	30.45	305	272	A	H
	*	5702	108.05	-	-	98.81	32.23	7.49	30.48	100	23	P	V
	*	5702	100.18	-	-	90.94	32.23	7.49	30.48	100	23	A	V
		5725.32	64.17	-9.83	74	54.83	32.27	7.52	30.45	100	23	P	V
	!	5725.08	52.74	-1.26	54	43.4	32.27	7.52	30.45	100	23	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	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		11000	45.68	-28.32	74	51.84	39.53	10.31	56	100	360	P	H
CH 100 5500MHz		11000	44.46	-29.54	74	50.62	39.53	10.31	56	100	360	P	V
802.11a		11160	45.23	-28.77	74	51.73	39.42	10.42	56.34	100	360	P	H
CH 116 5580MHz		11160	45.6	-28.4	74	52.1	39.42	10.42	56.34	100	360	P	V
802.11a		11400	43.98	-30.02	74	50.95	39.27	10.57	56.81	100	360	P	H
CH 140 5700MHz		11400	44.96	-29.04	74	51.93	39.27	10.57	56.81	100	360	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 36 5180MHz		5145.12	55.02	-18.98	74	46.86	31.65	7.02	30.51	272	71	P	H
		5150	45.01	-8.99	54	36.85	31.65	7.02	30.51	272	71	A	H
	*	5178	108.41	-	-	100.27	31.67	7.06	30.59	272	71	P	H
	*	5178	100.75	-	-	92.61	31.67	7.06	30.59	272	71	A	H
		5150	56.2	-17.8	74	48.04	31.65	7.02	30.51	110	353	P	V
		5150	46.12	-7.88	54	37.96	31.65	7.02	30.51	110	353	A	V
	*	5178	108.34	-	-	100.2	31.67	7.06	30.59	110	353	P	V
	*	5178	101.48	-	-	93.34	31.67	7.06	30.59	110	353	A	V
802.11n HT20 CH 44 5220MHz		5131.2	51.01	-22.99	74	42.83	31.64	7	30.46	285	69	P	H
		5129.76	41.58	-12.42	54	33.4	31.64	7	30.46	285	69	A	H
	*	5216	107.84	-	-	99.66	31.68	7.11	30.61	285	69	P	H
	*	5216	101.27	-	-	93.09	31.68	7.11	30.61	285	69	A	H
		5351.22	48.38	-25.62	74	39.75	31.73	7.3	30.4	285	69	P	H
		5396.04	39.87	-14.13	54	31.08	31.74	7.37	30.32	285	69	A	H
		5138.88	51.75	-22.25	74	43.57	31.64	7	30.46	122	346	P	V
		5141.28	42.02	-11.98	54	33.86	31.65	7.02	30.51	122	346	A	V
	*	5218	109.24	-	-	101.06	31.68	7.11	30.61	122	346	P	V
	*	5218	102.15	-	-	93.97	31.68	7.11	30.61	122	346	A	V
		5369.76	50.07	-23.93	74	41.4	31.73	7.32	30.38	122	346	P	V
		5396.58	40.16	-13.84	54	31.37	31.74	7.37	30.32	122	346	A	V



802.11n HT20 CH 48 5240MHz		5382.18	50.31	-23.69	74	41.58	31.74	7.34	30.35	282	70	P	H
		5388.48	40.28	-13.72	54	31.55	31.74	7.34	30.35	282	70	A	H
	*	5236	109.68	-	-	101.44	31.69	7.13	30.58	282	70	P	H
	*	5236	102.2	-	-	93.96	31.69	7.13	30.58	282	70	A	H
		5382.36	49.73	-24.27	74	41	31.74	7.34	30.35	136	348	P	V
		5384.16	40.51	-13.49	54	31.78	31.74	7.34	30.35	136	348	A	V
	*	5242	110.48	-	-	102.19	31.69	7.16	30.56	136	348	P	V
	*	5242	103.01	-	-	94.72	31.69	7.16	30.56	136	348	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 HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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	43.26	-30.74	74	51.85	38.76	9.9	57.25	100	360	P	H
		10360	43.96	-30.04	74	52.55	38.76	9.9	57.25	100	360	P	V
802.11n HT20 CH 44 5220MHz		10440	45.9	-28.1	74	54.2	38.88	9.94	57.12	100	360	P	H
		10440	45.79	-28.21	74	54.09	38.88	9.94	57.12	100	360	P	V
802.11n HT20 CH 48 5240MHz		10480	44.08	-29.92	74	52.17	38.96	9.97	57.02	100	360	P	H
		10480	44.82	-29.18	74	52.91	38.96	9.97	57.02	100	360	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+2	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		5137.28	62.51	-11.49	74	54.33	31.64	7	30.46	127	324	P	H
	!	5149.92	52.42	-1.58	54	44.26	31.65	7.02	30.51	127	324	A	H
	*	5198	104.42	-	-	96.29	31.68	7.09	30.64	127	324	P	H
	*	5198	97.72	-	-	89.59	31.68	7.09	30.64	127	324	A	H
		5355.18	53.52	-20.48	74	44.89	31.73	7.3	30.4	127	324	P	H
		5382.9	41.44	-12.56	54	32.71	31.74	7.34	30.35	127	324	A	H
		5148.96	57.48	-16.52	74	49.32	31.65	7.02	30.51	101	5	P	V
	!	5150	51.18	-2.82	54	43.02	31.65	7.02	30.51	101	5	A	V
	*	5196	99.54	-	-	91.41	31.68	7.09	30.64	101	5	P	V
	*	5196	93.71	-	-	85.58	31.68	7.09	30.64	101	5	A	V
		5369.58	50.53	-23.47	74	41.86	31.73	7.32	30.38	101	5	P	V
		5399.28	39.98	-14.02	54	31.19	31.74	7.37	30.32	101	5	A	V
802.11n HT40 CH 46 5230MHz		5138.88	56.43	-17.57	74	48.25	31.64	7	30.46	156	323	P	H
		5142.72	42.76	-11.24	54	34.6	31.65	7.02	30.51	156	323	A	H
	*	5236	105.1	-	-	96.86	31.69	7.13	30.58	156	323	P	H
	*	5236	98.53	-	-	90.29	31.69	7.13	30.58	156	323	A	H
		5366.88	48.56	-25.44	74	39.89	31.73	7.32	30.38	156	323	P	H
		5360.76	41.57	-12.43	54	32.9	31.73	7.32	30.38	156	323	A	H
		5132.8	50.36	-23.64	74	42.18	31.64	7	30.46	119	10	P	V
		5141.76	41.48	-12.52	54	33.32	31.65	7.02	30.51	119	10	A	V
	*	5226	99.8	-	-	91.56	31.69	7.13	30.58	119	10	P	V
	*	5226	94	-	-	85.76	31.69	7.13	30.58	119	10	A	V
		5359.32	50.07	-23.93	74	41.44	31.73	7.3	30.4	119	10	P	V
		5391.72	39.95	-14.05	54	31.22	31.74	7.34	30.35	119	10	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+2	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		10380	45.85	-28.15	74	54.37	38.79	9.91	57.22	100	360	P	H
		10380	44.2	-29.8	74	52.72	38.79	9.91	57.22	100	360	P	V
802.11n HT40 CH 46 5230MHz		10460	43.53	-30.47	74	51.76	38.9	9.95	57.08	100	360	P	H
		10460	44.6	-29.4	74	52.83	38.9	9.95	57.08	100	360	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+2	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 42 5210MHz		5140.8	60.76	-13.24	74	52.6	31.65	7.02	30.51	132	360	P	H
	!	5145.12	51.76	-2.24	54	43.6	31.65	7.02	30.51	132	360	A	H
	*	5194	94.61	-	-	86.48	31.68	7.09	30.64	132	360	P	H
	*	5194	86.43	-	-	78.3	31.68	7.09	30.64	132	360	A	H
		5372.82	48.62	-25.38	74	39.95	31.73	7.32	30.38	132	360	P	H
		5371.56	41.53	-12.47	54	32.86	31.73	7.32	30.38	132	360	A	H
		5138.88	60.43	-13.57	74	52.25	31.64	7	30.46	134	15	P	V
	!	5149.12	51.33	-2.67	54	43.17	31.65	7.02	30.51	134	15	A	V
	*	5226	99.81	-	-	91.57	31.69	7.13	30.58	134	15	P	V
	*	5226	94.22	-	-	85.98	31.69	7.13	30.58	134	15	A	V
		5368.5	50.04	-23.96	74	41.37	31.73	7.32	30.38	134	15	P	V
		5354.1	43.3	-10.7	54	34.67	31.73	7.3	30.4	134	15	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 VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	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		10420	44.9	-29.1	74	53.27	38.85	9.93	57.15	100	360	P	H
CH 42 5210MHz		10420	45.12	-28.88	74	53.49	38.85	9.93	57.15	100	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 802.11n HT20 (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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		5113.92	52.06	-21.94	74	43.87	31.63	6.98	30.42	294	67	P	H
		5134.56	41.34	-12.66	54	33.16	31.64	7	30.46	294	67	A	H
	*	5258	107.87	-	-	99.58	31.69	7.16	30.56	294	67	P	H
	*	5258	100.82	-	-	92.53	31.69	7.16	30.56	294	67	A	H
		5121.28	51.46	-22.54	74	43.27	31.63	6.98	30.42	100	351	P	V
		5120.16	41.48	-12.52	54	33.29	31.63	6.98	30.42	100	351	A	V
	*	5256	109.25	-	-	100.96	31.69	7.16	30.56	100	351	P	V
	*	5256	101.83	-	-	93.54	31.69	7.16	30.56	100	351	A	V
802.11n HT20 CH 60 5300MHz		5127.68	50.86	-23.14	74	42.68	31.64	7	30.46	279	67	P	H
		5128.48	41.2	-12.8	54	33.02	31.64	7	30.46	279	67	A	H
	*	5306	107.11	-	-	98.65	31.71	7.23	30.48	279	67	P	H
	*	5306	101.24	-	-	92.78	31.71	7.23	30.48	279	67	A	H
		5361.7	49.08	-24.92	74	40.41	31.73	7.32	30.38	279	67	P	H
		5353.1	41.09	-12.91	54	32.46	31.73	7.3	30.4	279	67	A	H
		5129.92	50.58	-23.42	74	42.4	31.64	7	30.46	184	352	P	V
		5123.04	41.14	-12.86	54	32.96	31.64	7	30.46	184	352	A	V
	*	5304	108.99	-	-	100.53	31.71	7.23	30.48	184	352	P	V
	*	5304	101.99	-	-	93.53	31.71	7.23	30.48	184	352	A	V
		5351.7	51.77	-22.23	74	43.14	31.73	7.3	30.4	184	352	P	V
		5351.2	42.34	-11.66	54	33.71	31.73	7.3	30.4	184	352	A	V



802.11n HT20 CH 64 5320MHz		5350.3	52.8	-21.2	74	44.17	31.73	7.3	30.4	286	65	P	H
		5350	43.97	-10.03	54	35.34	31.73	7.3	30.4	286	65	A	H
	*	5320	108.29	-	-	99.77	31.72	7.25	30.45	286	65	P	H
	*	5320	100.94	-	-	92.42	31.72	7.25	30.45	286	65	A	H
		5352.5	54.7	-19.3	74	46.07	31.73	7.3	30.4	139	349	P	V
		5350.8	45.16	-8.84	54	36.53	31.73	7.3	30.4	139	349	A	V
	*	5316	108.61	-	-	100.09	31.72	7.25	30.45	139	349	P	V
	*	5316	101.45	-	-	92.93	31.72	7.25	30.45	139	349	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 HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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		10520	45.08	-28.92	74	53.02	39.01	10	56.95	100	360	P	H
		10520	44.11	-29.89	74	52.05	39.01	10	56.95	100	360	P	V
802.11n HT20 CH 60 5300MHz		10600	44.82	-29.18	74	52.45	39.1	10.05	56.78	100	360	P	H
		10600	46.43	-27.57	74	54.06	39.1	10.05	56.78	100	360	P	V
802.11n HT20 CH 64 5320MHz		10640	44.99	-29.01	74	52.49	39.14	10.07	56.71	100	360	P	H
		10640	44.53	-29.47	74	52.03	39.14	10.07	56.71	100	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 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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		5142.08	52.86	-21.14	74	44.7	31.65	7.02	30.51	182	360	P	H
		5127.04	42.42	-11.58	54	34.24	31.64	7	30.46	182	360	A	H
	*	5284	104.78	-	-	96.39	31.7	7.2	30.51	182	360	P	H
	*	5284	98.61	-	-	90.22	31.7	7.2	30.51	182	360	A	H
		5378.1	58.78	-15.22	74	50.05	31.74	7.34	30.35	182	360	P	H
		5355.3	43.97	-10.03	54	35.34	31.73	7.3	30.4	182	360	A	H
		5125.28	50.87	-23.13	74	42.69	31.64	7	30.46	200	17	P	V
		5123.52	41.59	-12.41	54	33.41	31.64	7	30.46	200	17	A	V
	*	5266	101.38	-	-	93.03	31.7	7.18	30.53	200	17	P	V
	*	5266	94.51	-	-	86.16	31.7	7.18	30.53	200	17	A	V
		5350.7	53.29	-20.71	74	44.66	31.73	7.3	30.4	200	17	P	V
		5351.8	40.82	-13.18	54	32.19	31.73	7.3	30.4	200	17	A	V
802.11n HT40 CH 62 5310MHz		5127.2	50.96	-23.04	74	42.78	31.64	7	30.46	165	321	P	H
		5124.48	41.65	-12.35	54	33.47	31.64	7	30.46	165	321	A	H
	*	5300	106.03	-	-	97.57	31.71	7.23	30.48	165	321	P	H
	*	5300	99.1	-	-	90.64	31.71	7.23	30.48	165	321	A	H
		5361.9	66.45	-7.55	74	57.78	31.73	7.32	30.38	165	321	P	H
	!	5350	49.71	-4.29	54	41.08	31.73	7.3	30.4	165	321	A	H
		5128.64	51.64	-22.36	74	43.46	31.64	7	30.46	115	20	P	V
		5125.44	41.44	-12.56	54	33.26	31.64	7	30.46	115	20	A	V
	*	5316	101.5	-	-	92.98	31.72	7.25	30.45	115	20	P	V
	*	5316	95.27	-	-	86.75	31.72	7.25	30.45	115	20	A	V
		5357.8	58.22	-15.78	74	49.59	31.73	7.3	30.4	115	20	P	V
		5350.2	47.17	-6.83	54	38.54	31.73	7.3	30.4	115	20	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+2	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	44.85	-29.15	74	52.73	39.03	10.01	56.92	100	360	P	H
		10540	44.79	-29.21	74	52.67	39.03	10.01	56.92	100	360	P	V
802.11n HT40 CH 62 5310MHz		10620	44.66	-29.34	74	52.23	39.12	10.06	56.75	100	360	P	H
		10620	45.55	-28.45	74	53.12	39.12	10.06	56.75	100	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+2	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 58 5290MHz		5149.6	52.11	-21.89	74	43.95	31.65	7.02	30.51	279	68	P	H
		5149.76	44.55	-9.45	54	36.39	31.65	7.02	30.51	279	68	A	H
	*	5278	99.99	-	-	91.6	31.7	7.2	30.51	279	68	P	H
	*	5278	94.19	-	-	85.8	31.7	7.2	30.51	279	68	A	H
		5354.3	55.25	-18.75	74	46.62	31.73	7.3	30.4	279	68	P	H
	!	5355.1	49	-5	54	40.37	31.73	7.3	30.4	279	68	A	H
		5142.88	52.37	-21.63	74	44.21	31.65	7.02	30.51	132	353	P	V
		5146.24	44.42	-9.58	54	36.26	31.65	7.02	30.51	132	353	A	V
	*	5284	100.22	-	-	91.83	31.7	7.2	30.51	132	353	P	V
	*	5284	95.22	-	-	86.83	31.7	7.2	30.51	132	353	A	V
		5352.5	58.28	-15.72	74	49.65	31.73	7.3	30.4	132	353	P	V
	!	5354.5	51.49	-2.51	54	42.86	31.73	7.3	30.4	132	353	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 VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	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	45.35	-28.65	74	53.04	39.08	10.04	56.81	100	360	P	H
VHT80													
CH 58		10580	44.38	-29.62	74	52.07	39.08	10.04	56.81	100	360	P	V
5290MHz													
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	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		5468.4	52.6	-21.4	74	43.81	31.84	7.37	30.42	289	72	P	H
		5470	44.43	-9.57	54	35.64	31.84	7.37	30.42	289	72	A	H
	*	5498	105.59	-	-	96.81	31.88	7.37	30.47	289	72	P	H
	*	5498	99.42	-	-	90.64	31.88	7.37	30.47	289	72	A	H
		5465.68	55	-19	74	46.21	31.84	7.37	30.42	271	360	P	V
		5469.84	46.47	-7.53	54	37.68	31.84	7.37	30.42	271	360	A	V
	*	5496	108.02	-	-	99.23	31.86	7.37	30.44	271	360	P	V
	*	5496	101.1	-	-	92.31	31.86	7.37	30.44	271	360	A	V
802.11n HT20 CH 116 5580MHz		5459.92	51.33	-22.67	74	42.54	31.81	7.37	30.39	278	72	P	H
		5469.84	40.53	-13.47	54	31.74	31.84	7.37	30.42	278	72	A	H
	*	5578	108.07	-	-	99.29	31.98	7.36	30.56	278	72	P	H
	*	5578	100.59	-	-	91.81	31.98	7.36	30.56	278	72	A	H
		5730.36	50.15	-23.85	74	40.81	32.27	7.52	30.45	278	72	P	H
		5750.84	41.27	-12.73	54	31.86	32.3	7.54	30.43	278	72	A	H
		5419.28	50.45	-23.55	74	41.67	31.76	7.37	30.35	113	360	P	V
		5453.52	40.72	-13.28	54	31.93	31.81	7.37	30.39	113	360	A	V
	*	5576	108.59	-	-	99.81	31.98	7.36	30.56	113	360	P	V
	*	5576	101.97	-	-	93.19	31.98	7.36	30.56	113	360	A	V
		5730.92	50.87	-23.13	74	41.53	32.27	7.52	30.45	113	360	P	V
		5760.28	41.2	-12.8	54	31.72	32.33	7.56	30.41	113	360	A	V



802.11n HT20 CH 140 5700MHz		5726.28	61.93	-12.07	74	52.59	32.27	7.52	30.45	287	74	P	H
	!	5726.2	49.52	-4.48	54	40.18	32.27	7.52	30.45	287	74	A	H
	*	5698	107.75	-	-	98.58	32.2	7.47	30.5	287	74	P	H
	*	5698	99.86	-	-	90.69	32.2	7.47	30.5	287	74	A	H
		5727.24	64.31	-9.69	74	54.97	32.27	7.52	30.45	100	347	P	V
	!	5726.76	50.65	-3.35	54	41.31	32.27	7.52	30.45	100	347	A	V
	*	5698	108.59	-	-	99.42	32.2	7.47	30.5	100	347	P	V
	*	5698	101.81	-	-	92.64	32.2	7.47	30.5	100	347	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	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		11000	44.92	-29.08	74	51.08	39.53	10.31	56	100	360	P	H
		11000	45.19	-28.81	74	51.35	39.53	10.31	56	100	360	P	V
802.11n HT20 CH 116 5580MHz		11160	45.1	-28.9	74	51.6	39.42	10.42	56.34	100	360	P	H
		11160	44.14	-29.86	74	50.64	39.42	10.42	56.34	100	360	P	V
802.11n HT20 CH 140 5700MHz		11400	44.09	-29.91	74	51.06	39.27	10.57	56.81	100	360	P	H
		11400	44.63	-29.37	74	51.6	39.27	10.57	56.81	100	360	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+2	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 102 5510MHz		5469.84	61.85	-12.15	74	53.06	31.84	7.37	30.42	130	360	P	H
	!	5469.84	52.11	-1.89	54	43.32	31.84	7.37	30.42	130	360	A	H
	*	5500	103.01	-	-	94.23	31.88	7.37	30.47	130	360	P	H
	*	5500	96.38	-	-	87.6	31.88	7.37	30.47	130	360	A	H
		5759.56	50.71	-23.29	74	41.23	32.33	7.56	30.41	130	360	P	H
		5754.2	41.76	-12.24	54	32.28	32.33	7.56	30.41	130	360	A	H
		5468.56	61.43	-12.57	74	52.64	31.84	7.37	30.42	316	18	P	V
		5469.84	46.17	-7.83	54	37.38	31.84	7.37	30.42	316	18	A	V
	*	5502	98.79	-	-	90.01	31.88	7.37	30.47	316	18	P	V
	*	5502	92.19	-	-	83.41	31.88	7.37	30.47	316	18	A	V
		5745.48	49.81	-24.19	74	40.4	32.3	7.54	30.43	316	18	P	V
		5734.6	41.5	-12.5	54	32.09	32.3	7.54	30.43	316	18	A	V
802.11n HT40 CH 110 5550MHz		5469.36	54.08	-19.92	74	45.29	31.84	7.37	30.42	112	360	P	H
		5466.8	43.15	-10.85	54	34.36	31.84	7.37	30.42	112	360	A	H
	*	5556	102.97	-	-	94.19	31.96	7.36	30.54	112	360	P	H
	*	5556	96.3	-	-	87.52	31.96	7.36	30.54	112	360	A	H
		5735.48	52.33	-21.67	74	42.92	32.3	7.54	30.43	112	360	P	H
		5746.92	41.43	-12.57	54	32.02	32.3	7.54	30.43	112	360	A	H
		5431.44	51.41	-22.59	74	42.62	31.79	7.37	30.37	359	26	P	V
		5457.36	40.71	-13.29	54	31.92	31.81	7.37	30.39	359	26	A	V
	*	5552	100.22	-	-	91.44	31.96	7.36	30.54	359	26	P	V
	*	5552	92.5	-	-	83.72	31.96	7.36	30.54	359	26	A	V
		5735.8	50.04	-23.96	74	40.63	32.3	7.54	30.43	359	26	P	V
		5751.96	41.5	-12.5	54	32.02	32.33	7.56	30.41	359	26	A	V



802.11n HT40 CH 134 5670MHz		5442.32	50.66	-23.34	74	41.87	31.79	7.37	30.37	156	360	P	H
		5468.56	41.4	-12.6	54	32.61	31.84	7.37	30.42	156	360	A	H
	*	5668	104.48	-	-	95.39	32.16	7.45	30.52	156	360	P	H
	*	5668	96.99	-	-	87.9	32.16	7.45	30.52	156	360	A	H
		5764.12	54.48	-19.52	74	45	32.33	7.56	30.41	156	360	P	H
		5728.68	46.55	-7.45	54	37.21	32.27	7.52	30.45	156	360	A	H
		5360.72	49.01	-24.99	74	40.34	31.73	7.32	30.38	327	20	P	V
		5462.32	40.55	-13.45	54	31.76	31.81	7.37	30.39	327	20	A	V
	*	5674	100.46	-	-	91.37	32.16	7.45	30.52	327	20	P	V
	*	5674	92.53	-	-	83.44	32.16	7.45	30.52	327	20	A	V
		5728.52	58.38	-15.62	74	49.04	32.27	7.52	30.45	327	20	P	V
		5725.16	42.96	-11.04	54	33.62	32.27	7.52	30.45	327	20	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	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 102 5510MHz		11020	45.57	-28.43	74	51.76	39.52	10.32	56.03	100	360	P	H
		11020	45.82	-28.18	74	52.01	39.52	10.32	56.03	100	360	P	V
802.11n HT40 CH 110 5550MHz		11100	44.78	-29.22	74	51.14	39.47	10.37	56.2	100	360	P	H
		11100	45.6	-28.4	74	51.96	39.47	10.37	56.2	100	360	P	V
802.11n HT40 CH 134 5670MHz		11340	45.01	-28.99	74	51.84	39.32	10.53	56.68	100	360	P	H
		11340	44.3	-29.7	74	51.13	39.32	10.53	56.68	100	360	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+2	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		5465.04	57.01	-16.99	74	48.22	31.84	7.37	30.42	298	67	P	H
	!	5461.2	48.76	-5.24	54	39.97	31.81	7.37	30.39	298	67	A	H
	*	5542	94.69	-	-	85.91	31.93	7.36	30.51	298	67	P	H
	*	5542	89.02	-	-	80.24	31.93	7.36	30.51	298	67	A	H
		5764.68	49.9	-24.1	74	40.42	32.33	7.56	30.41	298	67	P	H
		5752.44	42.69	-11.31	54	33.21	32.33	7.56	30.41	298	67	A	H
		5467.6	59.89	-14.11	74	51.1	31.84	7.37	30.42	112	360	P	V
	!	5467.76	52.82	-1.18	54	44.03	31.84	7.37	30.42	112	360	A	V
	*	5542	98.55	-	-	89.77	31.93	7.36	30.51	112	360	P	V
	*	5542	92.19	-	-	83.41	31.93	7.36	30.51	112	360	A	V
		5755.8	50.88	-23.12	74	41.4	32.33	7.56	30.41	112	360	P	V
		5751.8	43.19	-10.81	54	33.71	32.33	7.56	30.41	112	360	A	V
802.11ac VHT80 CH 122 5610MHz		5412.72	49.46	-24.54	74	40.68	31.76	7.37	30.35	277	304	P	H
		5468.24	42.19	-11.81	54	33.4	31.84	7.37	30.42	277	304	A	H
	*	5614	96.1	-	-	87.32	32.03	7.36	30.61	277	304	P	H
	*	5614	89.1	-	-	80.32	32.03	7.36	30.61	277	304	A	H
		5739.88	50.56	-23.44	74	41.15	32.3	7.54	30.43	277	304	P	H
		5745	43.41	-10.59	54	34	32.3	7.54	30.43	277	304	A	H
		5466.64	51.17	-22.83	74	42.38	31.84	7.37	30.42	285	0	P	V
		5463.44	43.09	-10.91	54	34.3	31.84	7.37	30.42	285	0	A	V
	*	5600	99.1	-	-	90.32	32.03	7.36	30.61	285	0	P	V
	*	5600	91.83	-	-	83.05	32.03	7.36	30.61	285	0	A	V
		5731.96	51.44	-22.56	74	42.1	32.27	7.52	30.45	285	0	P	V
		5726.92	44.04	-9.96	54	34.7	32.27	7.52	30.45	285	0	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+2	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		11060	45.82	-28.18	74	52.12	39.49	10.35	56.14	100	360	P	H
		11060	47.73	-26.27	74	54.03	39.49	10.35	56.14	100	360	P	V
802.11ac VHT80 CH 122 5610MHz		11220	44.88	-29.12	74	51.48	39.39	10.45	56.44	100	360	P	H
		11220	45.3	-28.7	74	51.9	39.39	10.45	56.44	100	360	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n	*	5718	105.01	-	-	95.67	32.27	7.52	30.45	285	69	P	H
HT40	*	5718	96.89	-	-	87.55	32.27	7.52	30.45	285	69	A	H
CH 142	*	5712	106.92	-	-	97.68	32.23	7.49	30.48	100	345	P	V
5710MHz	*	5712	98.62	-	-	89.38	32.23	7.49	30.48	100	345	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+2	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 142 5710MHz		11420	44.65	-29.35	74	51.66	39.26	10.58	56.85	100	360	P	H
		11420	45.15	-28.85	74	52.16	39.26	10.58	56.85	100	360	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+2	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	*	5702	103.24	-	-	94	32.23	7.49	30.48	278	66	P	H
VHT40	*	5702	94.34	-	-	85.1	32.23	7.49	30.48	278	66	A	H
CH 142	*	5714	107.24	-	-	98	32.23	7.49	30.48	256	360	P	V
5710MHz	*	5714	98.39	-	-	89.15	32.23	7.49	30.48	256	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+2	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	45.03	-28.97	74	52.04	39.26	10.58	56.85	100	360	P	H
VHT40													
CH 142		11420	45.16	-28.84	74	52.17	39.26	10.58	56.85	100	360	P	V
5710MHz													
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+2	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	*	5678	101.54	-	-	92.45	32.16	7.45	30.52	296	72	P	H
VHT80	*	5678	94.07	-	-	84.98	32.16	7.45	30.52	296	72	A	H
CH 138	*	5680	103.49	-	-	94.4	32.16	7.45	30.52	146	360	P	V
5690MHz	*	5680	95.88	-	-	86.79	32.16	7.45	30.52	146	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+2	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	44.75	-29.25	74	51.69	39.28	10.56	56.78	100	360	P	H
VHT80													
CH 138		11380	44.43	-29.57	74	51.37	39.28	10.56	56.78	100	360	P	V
5690MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Note symbol**

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

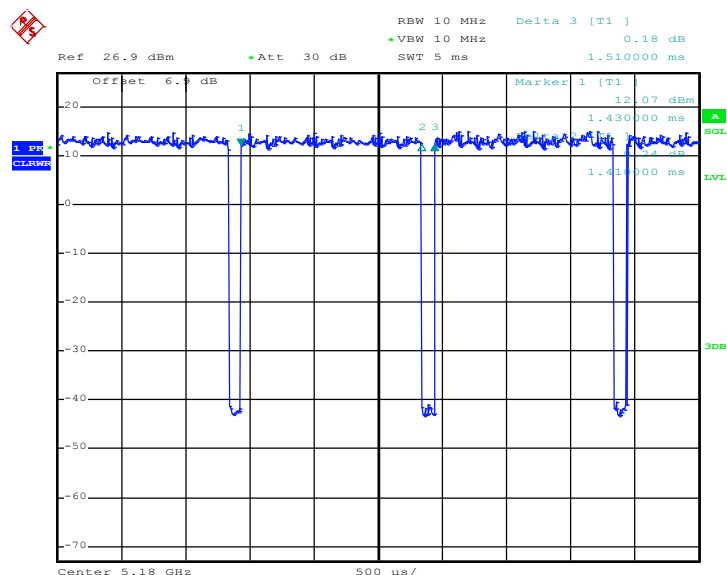
Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1	802.11a	93.38	1.41	0.71	1kHz
2	802.11a	92.98	1.40	0.71	1kHz
1+2	802.11n HT20	93.48	1.32	0.76	1kHz
1+2	802.11n HT40	86.67	0.65	1.54	3kHz
1+2	802.11ac VHT80	65.73	0.19	5.32	10kHz

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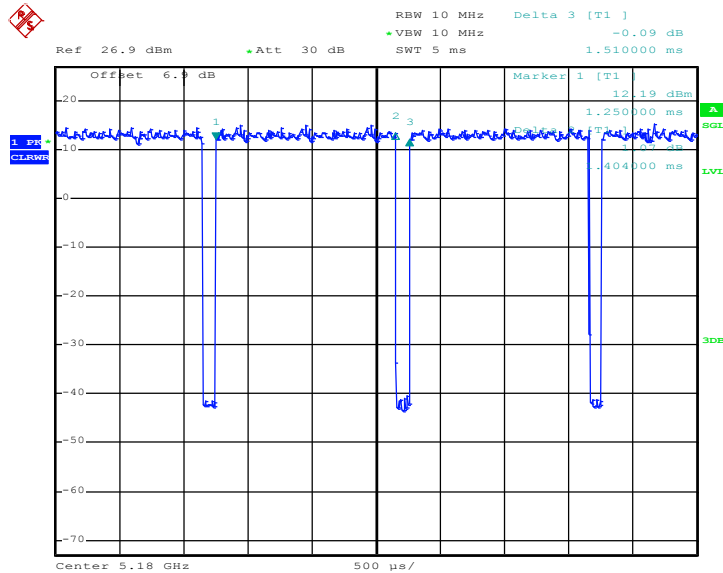
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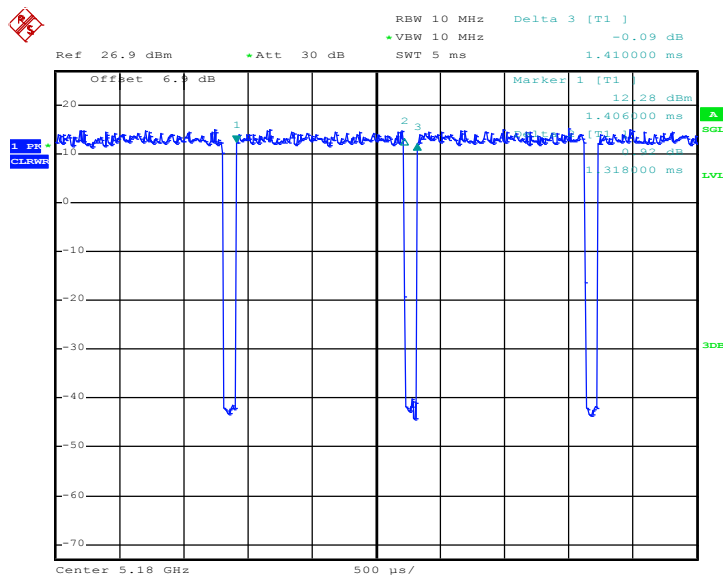
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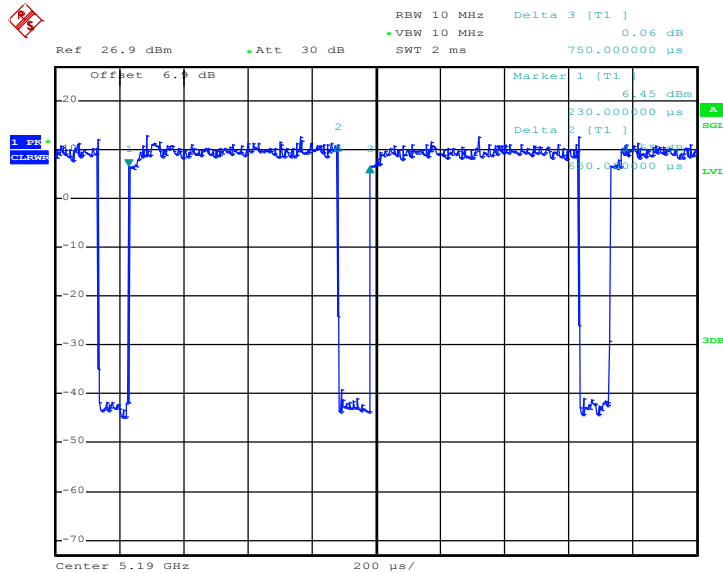
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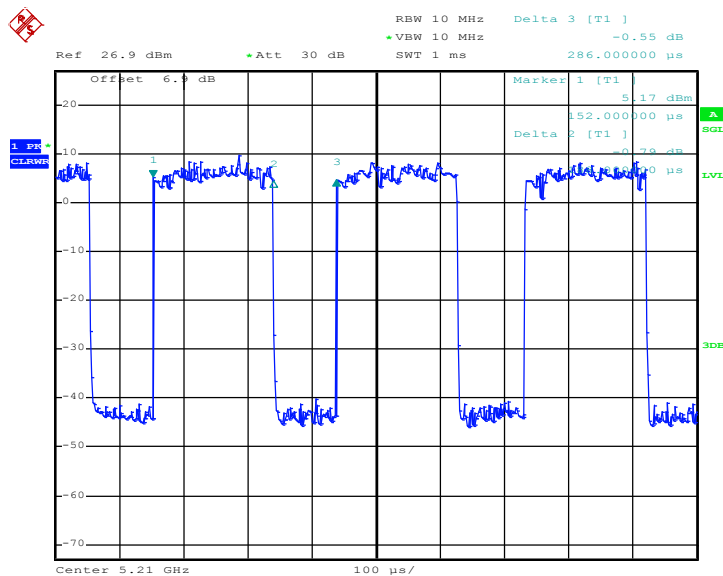
802.11n HT40



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802.11ac VHT80



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