

FCC RF Test Report

APPLICANT : BlackBerry Ltd.
EQUIPMENT : GSM Quad-band / UMTS Penta-band / LTE Deca-band mobile phone
BRAND NAME : BlackBerry
MODEL NAME : STH100-2 (RJD211LW)
FCC ID : L6ARLD210LW
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Apr. 29, 2016 and testing was completed on Jun. 16, 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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR642912E	Rev. 01	Initial issue of report	Jun. 24, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 0.48 dB at 5350.050 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 6.31 dB at 0.540 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

BlackBerry Ltd.

2200 University Ave E., Waterloo, ON, CAN. N2K0A7

1.2 Manufacturer

TCL Communication Ltd.

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	GSM Quad-band / UMTS Penta-band / LTE Deca-band mobile phone
Brand Name	BlackBerry
Model Name	STH100-2 (RJD211LW)
FCC ID	L6ARLD210LW
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE/NFC/ WLAN 2.4GHz 802.11b/g/n HT20/ WLAN 5GHz 802.11a/n HT20/HT40/ WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/ Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/ Bluetooth v4.2 LE
IMEI Code	Conducted: 004402243119892 Conduction: 004402243119900 Radiation: 004402243119918
HW Version	PIO
SW Version	AAF155
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> 802.11a : 16.29 dBm / 0.0426 W 802.11n HT20 : 15.39 dBm / 0.0346 W 802.11n HT40 : 15.40 dBm / 0.0347 W 802.11ac VHT20 : 16.26 dBm / 0.0423 W 802.11ac VHT40 : 16.12 dBm / 0.0409 W 802.11ac VHT80 : 15.70 dBm / 0.0372 W <5260 MHz ~ 5320 MHz> 802.11a : 15.99 dBm / 0.0397 W 802.11n HT20 : 15.09 dBm / 0.0323 W 802.11n HT40 : 15.10 dBm / 0.0324 W 802.11ac VHT20 : 15.96 dBm / 0.0394 W 802.11ac VHT40 : 15.08 dBm / 0.0322 W 802.11ac VHT80 : 14.43 dBm / 0.0277 W <5500 MHz ~ 5700 MHz> 802.11a : 15.34 dBm / 0.0342 W 802.11n HT20 : 14.36 dBm / 0.0273 W 802.11n HT40 : 14.43 dBm / 0.0277 W 802.11ac VHT20 : 15.27 dBm / 0.0337 W 802.11ac VHT40 : 15.21 dBm / 0.0332 W 802.11ac VHT80 : 13.14 dBm / 0.0206 W
99% Occupied Bandwidth	<5180 MHz ~ 5240 MHz> 802.11a : 20.58 MHz 802.11n HT20 : 20.08 MHz 802.11n HT40 : 37.16 MHz 802.11ac VHT20 : 21.78 MHz 802.11ac VHT40 : 37.86 MHz 802.11ac VHT80 : 75.16 MHz <5260 MHz ~ 5320 MHz> 802.11a : 20.73 MHz 802.11n HT20 : 20.33 MHz 802.11n HT40 : 37.26 MHz 802.11ac VHT20 : 22.33 MHz 802.11ac VHT40 : 37.36 MHz 802.11ac VHT80 : 75.04 MHz <5500 MHz ~ 5700 MHz> 802.11a : 20.08 MHz 802.11n HT20 : 19.93 MHz 802.11n HT40 : 37.66 MHz 802.11ac VHT20 : 20.83 MHz 802.11ac VHT40 : 38.36 MHz 802.11ac VHT80 : 74.93 MHz
Antenna Type/Gain	IFA Antenna with gain -2.40 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)



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	03CH03-KS	CO01-KS	306251

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

1.7 Specification of Accessory

Specification of Accessory				
AC Adapter	Brand Name	N/A	Model Name	UC13US
	Power Rating	I/P: 100 - 240Vac 0.5A, O/P:5V 2.0A		
	Manufacturer	BYD		
	S/N	CBA0059AG4C1		
Battery 1	Brand Name	N/A	Model Name	TLp026EJ
	Power Rating	3.85V 2610mAh		
	Manufacturer	COSLIGHT		
	P/N	C2610010CJ		
Battery 2	Brand Name	N/A	Model Name	TLp026E2
	Power Rating	3.84V 2610mAh		
	Manufacturer	SCUD		
	P/N	C2610011C2		
USB Cable 1	Brand Name	NA	Model Name	NA
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		
	P/N	CDA0000043C8		
USB Cable 2	Brand Name	NA	Model Name	NA
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		
	P/N	CDA0000043C2		
Earphone	Brand Name	NA	Model Name	NA
	Signal Line Type	1.25 meter, non-shielded cable, without ferrite core		
	P/N	CCB0045A15C3		



1.8 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01
- ♦ ANSI C63.10-2013

Remark:

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



2 Test Configuration of Equipment Under Test

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

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

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

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5180- 5240 MHz Band 1 (U-NII-1)	36	5180	44	5220
	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)
5500-5700 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	144	5720	142	5710
	138	5690	-	-

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



2.2 Pre-Scanned RF Power

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

WLAN 5GHz 802.11a Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	Data Rate 6Mbps	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
CH 36	5180	16.29	CH 36	15.82	15.47	15.06	14.57	14.20	13.67	12.70
CH 44	5220	15.84								
CH 48	5240	15.78								
CH 52	5260	15.99	CH 52	15.59	15.19	14.71	14.31	13.88	13.88	12.49
CH 60	5300	15.65								
CH 64	5320	15.71								
CH 100	5500	15.34	CH 100	14.81	14.28	13.91	13.27	13.05	12.46	11.52
CH 116	5580	15.03								
CH 140	5700	14.89								

WLAN 5GHz 802.11n-HT20 Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180	15.39	CH 36	15.09	14.56	14.15	13.73	13.30	12.79	11.81
CH 44	5220	15.00								
CH 48	5240	14.93								
CH 52	5260	15.09	CH 52	14.78	14.22	13.96	13.37	12.90	12.56	11.57
CH 60	5300	14.76								
CH 64	5320	14.81								
CH 100	5500	14.36	CH 100	13.90	13.42	13.00	12.57	11.94	11.60	10.63
CH 116	5580	14.09								
CH 140	5700	13.96								

WLAN 5GHz 802.11n-HT40 Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190	15.40	CH 38	15.07	14.58	14.07	13.51	13.19	12.76	11.74
CH 46	5230	15.01								
CH 54	5270	15.10	CH 54	14.74	14.29	13.88	13.19	12.96	12.46	11.63
CH 62	5310	14.83								
CH 102	5510	14.43	CH 102	14.02	13.44	12.92	12.43	12.02	11.57	10.59
CH 110	5550	14.33								
CH 134	5670	13.68								



WLAN 5GHz 802.11ac VHT20 Average Power (dBm)											
Power vs. Channel			Power vs. Data Rate								
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180	16.26	CH 36	15.84	15.65	14.99	14.67	14.29	13.58	13.23	12.79
CH 44	5220	15.88									
CH 48	5240	15.82									
CH 52	5260	15.96	CH 52	15.67	15.27	14.67	14.28	13.99	13.45	13.03	12.50
CH 60	5300	15.64									
CH 64	5320	15.68									
CH 100	5500	15.27	CH 100	14.88	14.54	13.96	13.49	12.96	12.60	11.92	11.50
CH 116	5580	15.03									
CH 140	5700	14.89									

WLAN 5GHz 802.11ac VHT40 Average Power (dBm)												
Power vs. Channel			Power vs. Data Rate									
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190	16.12	CH 38	15.84	15.39	14.97	14.63	14.00	13.77	13.21	12.78	12.76
CH 46	5230	15.82										
CH 54	5270	15.08	CH 54	14.68	14.37	13.76	13.50	12.93	12.60	12.02	11.61	11.59
CH 62	5310	14.82										
CH 102	5510	15.21	CH 102	14.91	14.38	13.87	13.50	13.09	12.61	12.01	11.67	11.62
CH 110	5550	15.17										
CH 134	5670	14.54										

WLAN 5GHz 802.11ac VHT80 Average Power (dBm)												
Power vs. Channel			Power vs. Data Rate									
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 42	5210	15.70	CH 42	15.31	14.86	14.39	13.92	13.41	13.01	12.71	12.11	11.99
CH 58	5290	14.43	CH 58	14.08	13.70	13.26	12.77	12.38	11.91	11.55	10.97	10.88
CH 106	5530	13.14	CH 106	12.69	12.27	11.77	11.28	10.78	10.21	9.91	9.36	9.23
CH 122	5610	12.68										

2.3 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone + Battery 1 + USB Cable 1(Charging from Adapter) Mode 2 : GSM850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone + Battery 2 + USB Cable 2(Charging from Adapter)
Remark: 1. For Radiated TCs, the tests were performed with Adapter, Earphone, Battery 1 and USB Cable 1. 2. The worst case of conducted emission is mode 2; only the test data of it was reported.	



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

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

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



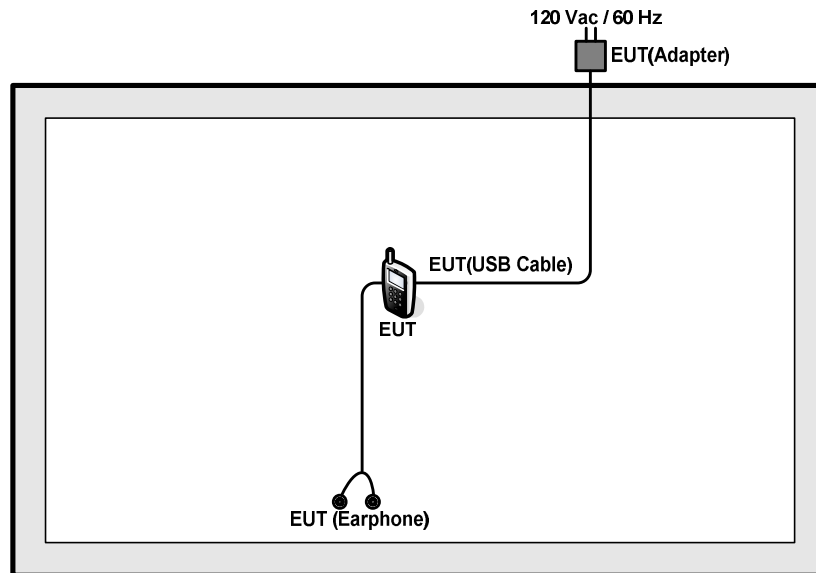
Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5700MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle Channel		-	-	144

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

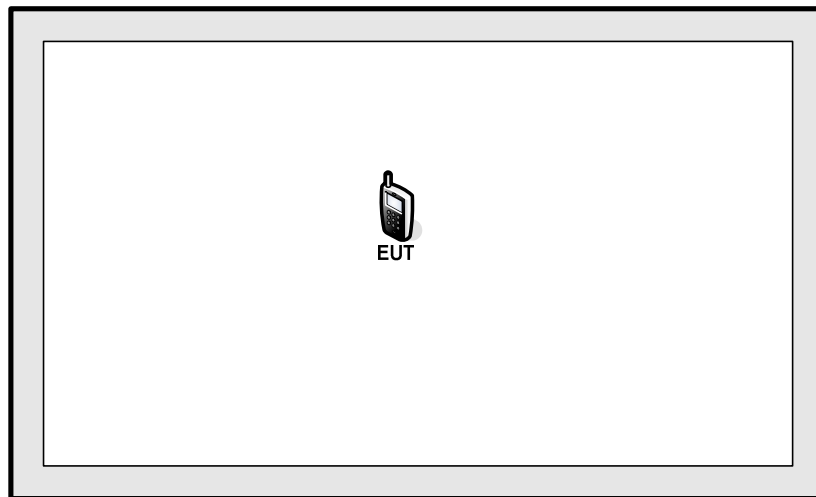
Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5700MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle Channel		-	-	138

2.4 Connection Diagram of Test System

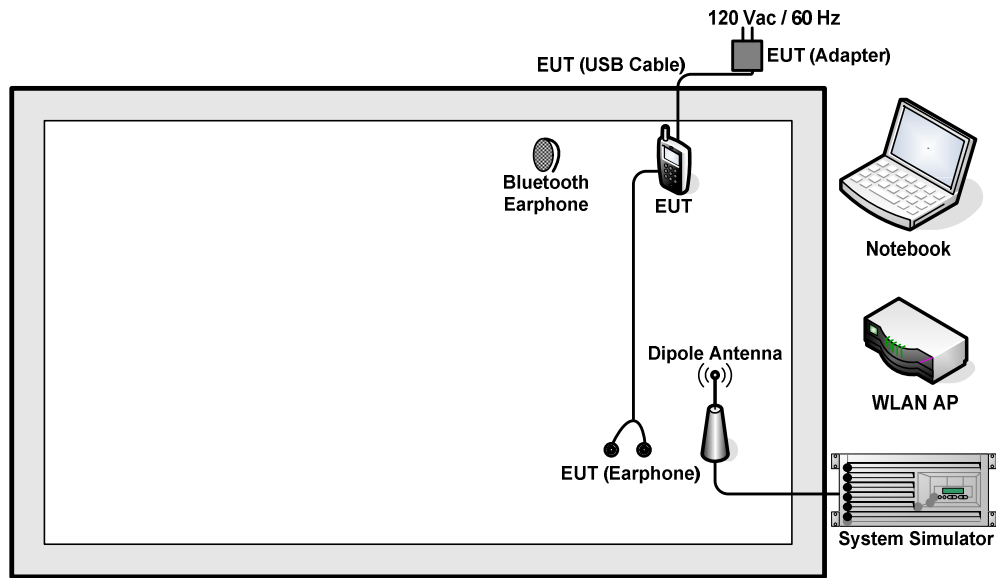
< Radiated Emission Mode >
For 802.11a/n HT20/HT40



For 802.11ac VHT20/VHT40/VHT80



<AC Conducted Emission Mode>



2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
2.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
3.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Lenovo	LBH 505	N/A	N/A	N/A
5.	DC Power Supply	GW INSTEK	GPD-2303S	N/A	N/A	Unshielded, 1.8 m

2.6 EUT Operation Test Setup

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

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

2.7 Measurement Results Explanation Example

For all conducted test items:

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

Example :

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

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

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

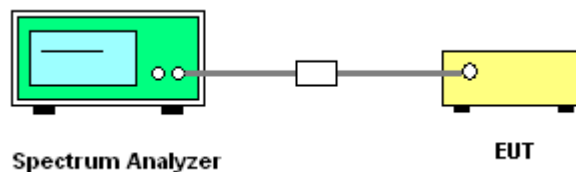
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

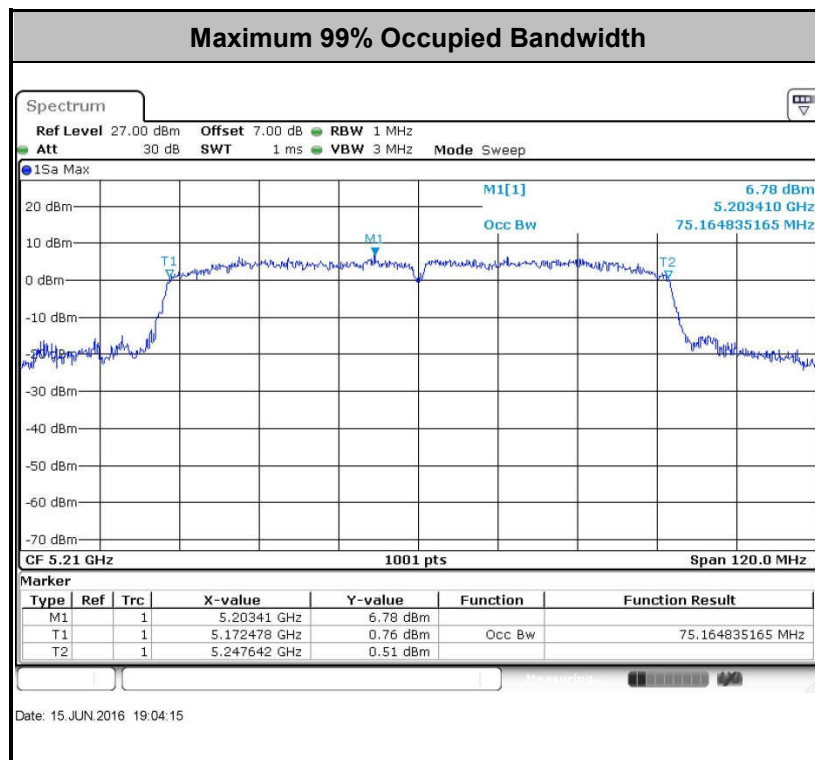
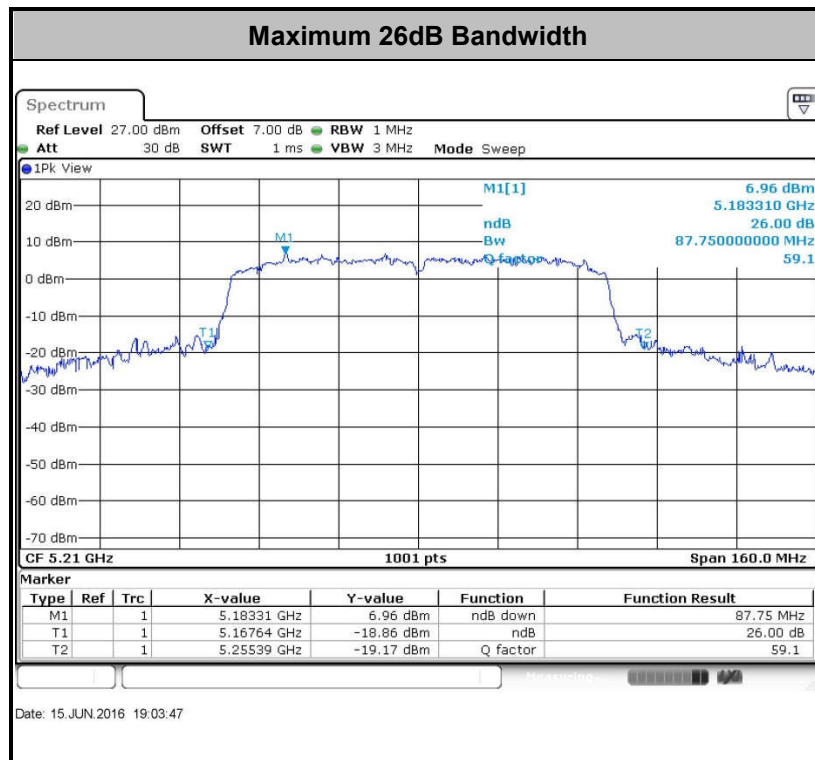
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

3.1.4 Test Setup



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

Please refer to Appendix A.



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<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 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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 v01r02.

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

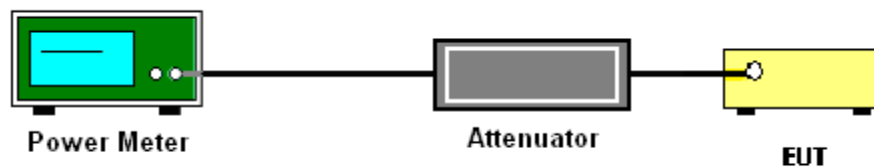
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x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

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

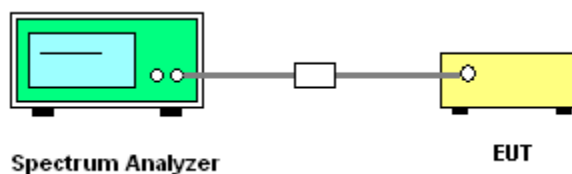
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

3.2.4 Test Setup

For normal channel:



For straddle channel:





3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

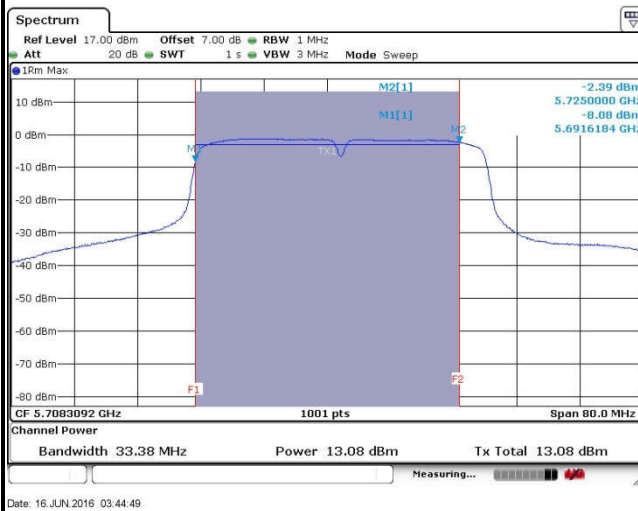




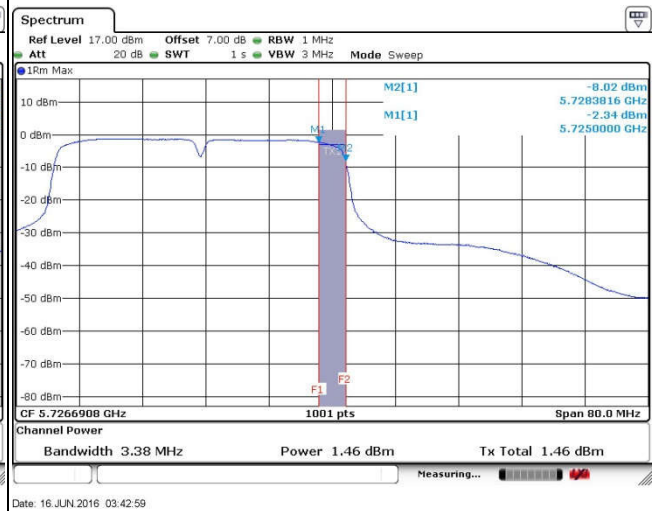
Maximum Straddle Channel Power

802.11n-HT40

NII-2C Band

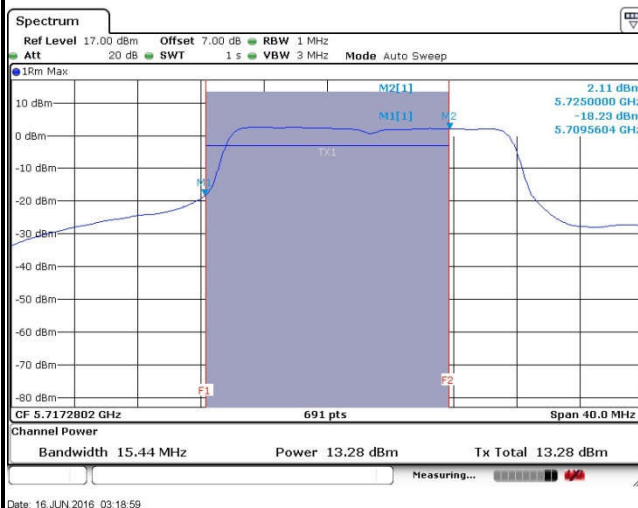


NII-3 Band

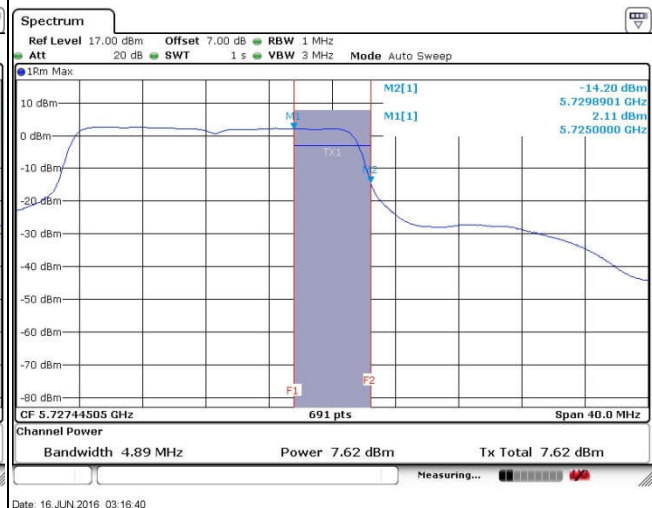


802.11ac VHT20

NII-2C Band



NII-3 Band

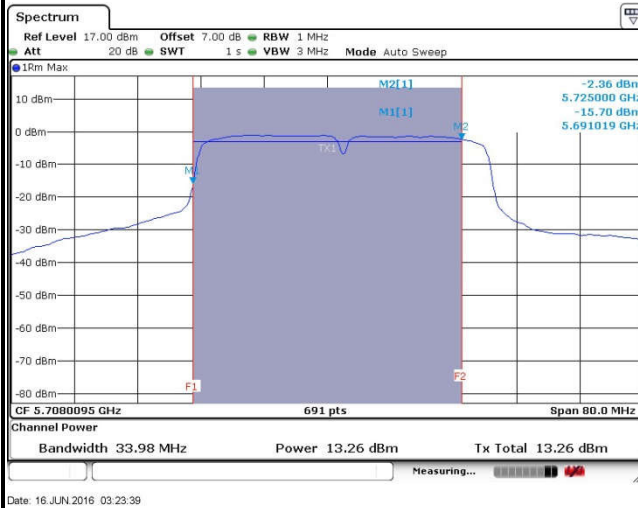




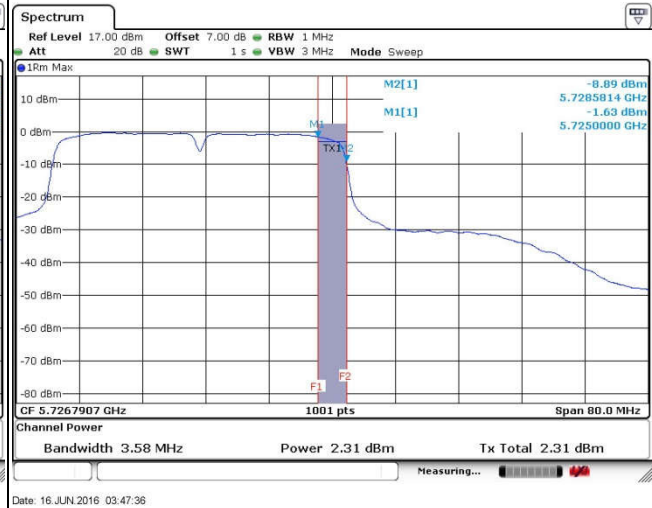
Maximum Straddle Channel Power

802.11ac VHT40

NII-2C Band

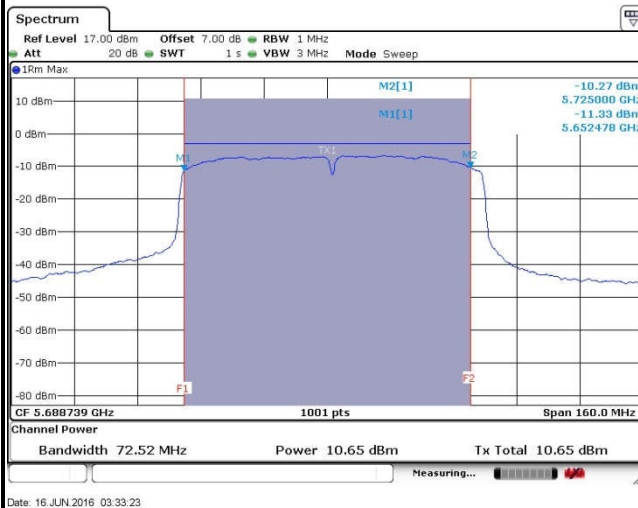


NII-3 Band

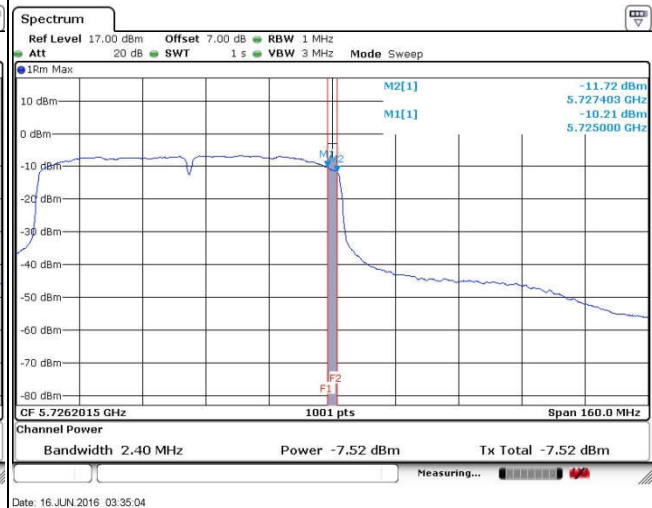


802.11ac VHT80

NII-2C Band



NII-3 Band





3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

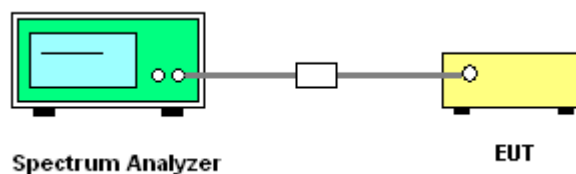
Section F) Maximum power spectral density

Method SA-2

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

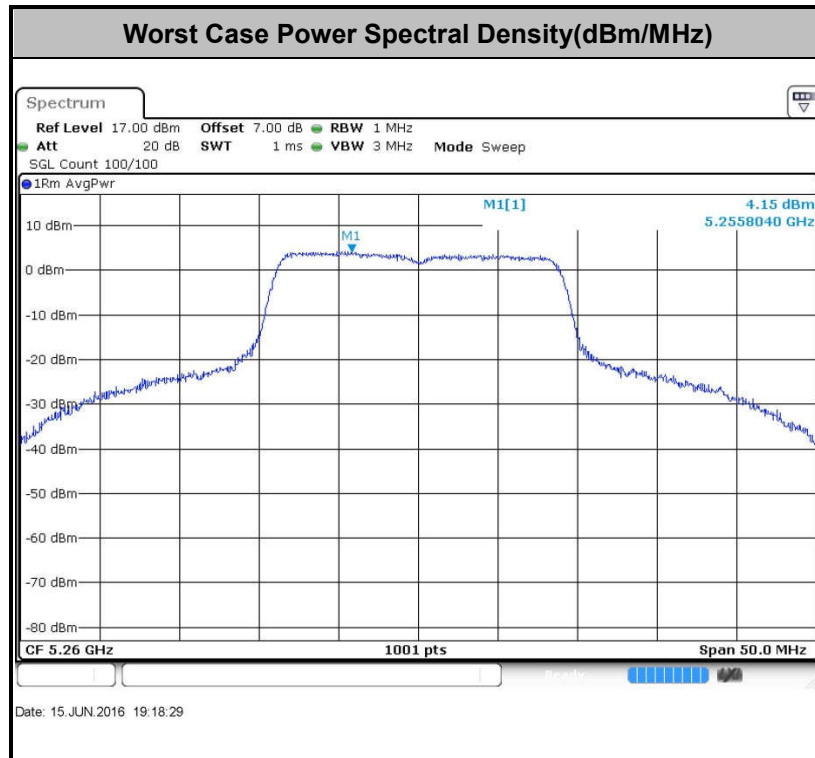
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.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

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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

3.4 Unwanted Radiated Emission Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

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 Part15.205 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 v01r02 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

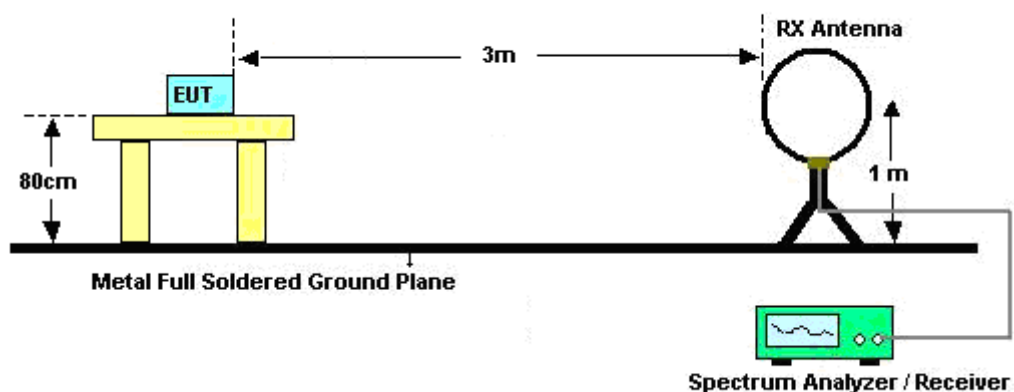
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

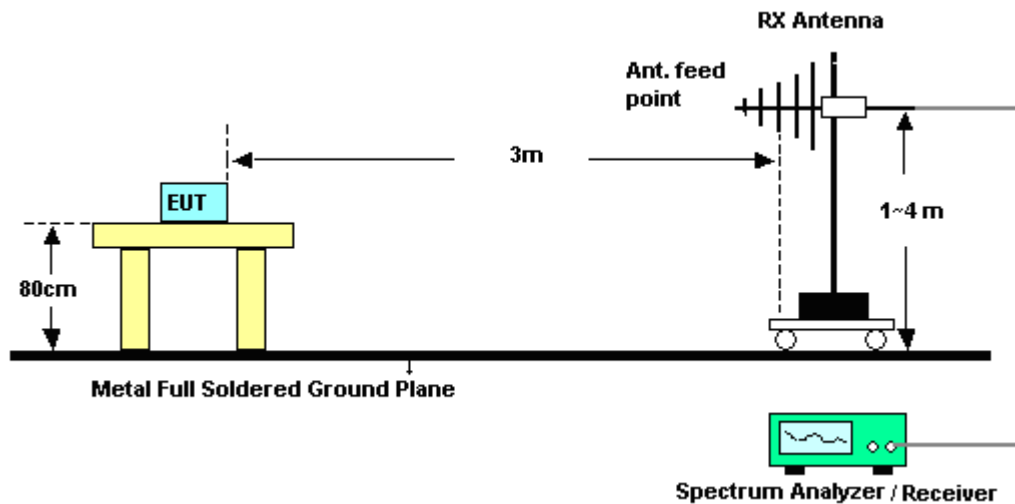
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

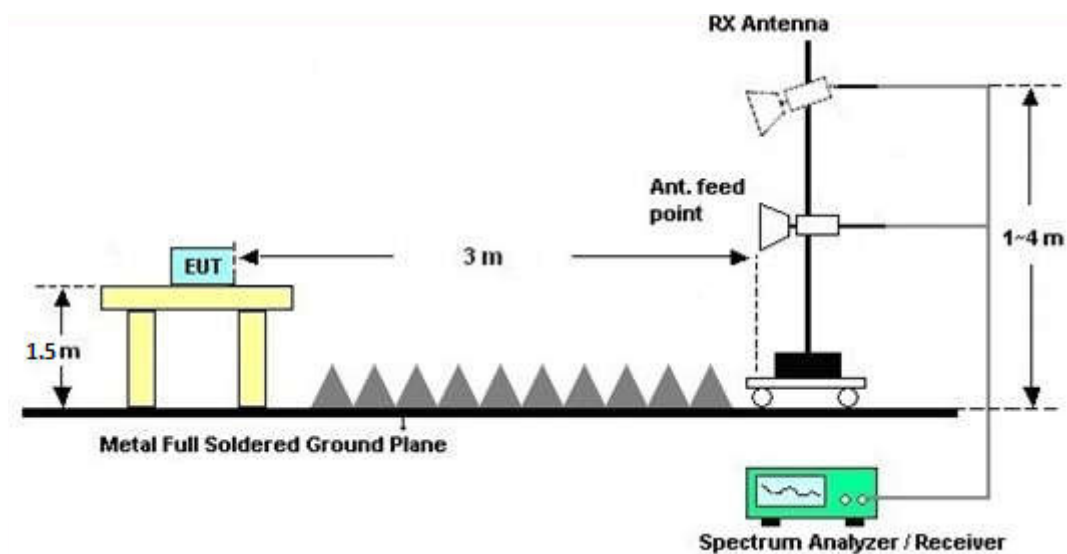
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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



3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix B.

3.4.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB 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.

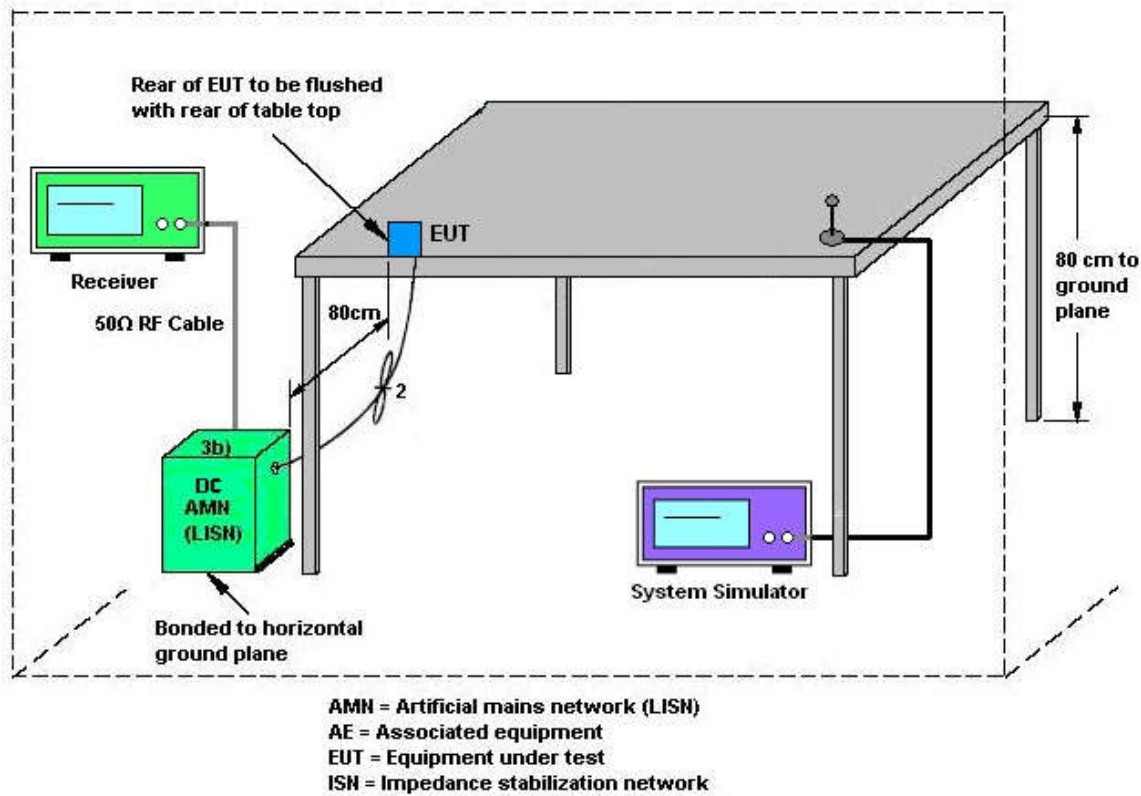
3.5.2 Measuring Instruments

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.

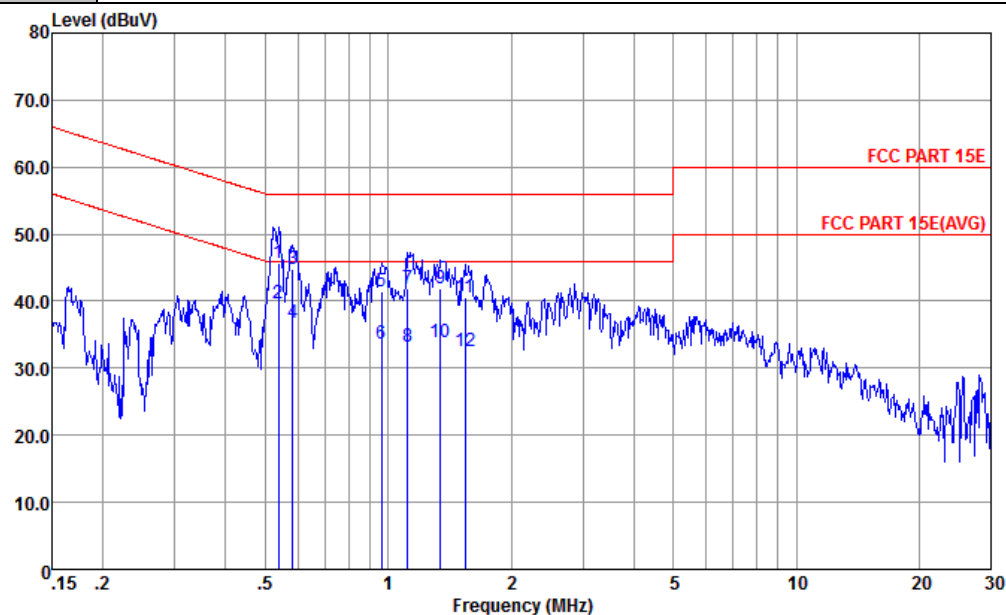
3.5.4 Test Setup





3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	44~47%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone + Battery 2 + USB Cable 2(Charging from Adapter)		

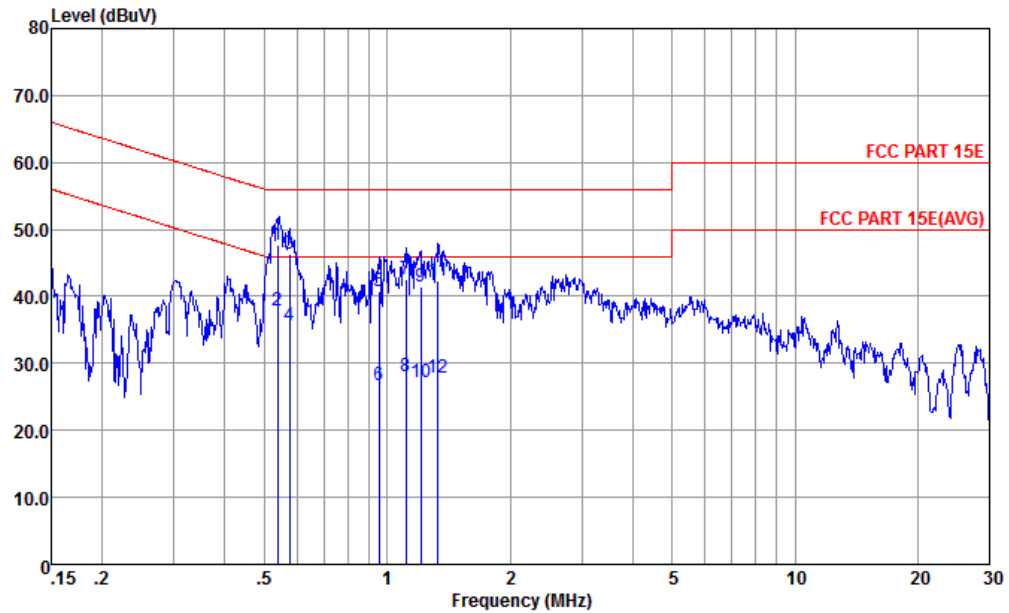


Site : CO01-KS
Condition : FCC PART 15E LISN-L-20151024 LINE
mode : Mode 2

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.54	45.59	-10.41	56.00	35.20	0.23	10.16	QP
2 *	0.54	39.69	-6.31	46.00	29.30	0.23	10.16	Average
3	0.58	44.69	-11.31	56.00	34.30	0.23	10.16	QP
4	0.58	36.69	-9.31	46.00	26.30	0.23	10.16	Average
5	0.96	41.49	-14.51	56.00	31.10	0.25	10.14	QP
6	0.96	33.59	-12.41	46.00	23.20	0.25	10.14	Average
7	1.12	41.98	-14.02	56.00	31.60	0.24	10.14	QP
8	1.12	33.28	-12.72	46.00	22.90	0.24	10.14	Average
9	1.34	41.86	-14.14	56.00	31.50	0.22	10.14	QP
10	1.34	33.96	-12.04	46.00	23.60	0.22	10.14	Average
11	1.54	40.55	-15.45	56.00	30.20	0.21	10.14	QP
12	1.54	32.45	-13.55	46.00	22.10	0.21	10.14	Average



Test Mode :	Mode 2	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	44~47%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone + Battery 2 + USB Cable 2(Charging from Adapter)		



Site : C001-KS
Condition : FCC PART 15E LISN-N-20151024 NEUTRAL
mode : Mode 2

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.54	47.79	-8.21	56.00	37.31	0.32	10.16	QP
2 *	0.54	37.99	-8.01	46.00	27.51	0.32	10.16	Average
3	0.58	46.39	-9.61	56.00	35.90	0.33	10.16	QP
4	0.58	35.69	-10.31	46.00	25.20	0.33	10.16	Average
5	0.95	40.70	-15.30	56.00	30.19	0.37	10.14	QP
6	0.95	26.80	-19.20	46.00	16.29	0.37	10.14	Average
7	1.11	42.61	-13.39	56.00	32.10	0.37	10.14	QP
8	1.11	28.11	-17.89	46.00	17.60	0.37	10.14	Average
9	1.21	41.41	-14.59	56.00	30.90	0.37	10.14	QP
10	1.21	27.11	-18.89	46.00	16.60	0.37	10.14	Average
11	1.33	42.41	-13.59	56.00	31.90	0.37	10.14	QP
12	1.33	27.81	-18.19	46.00	17.30	0.37	10.14	Average

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

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

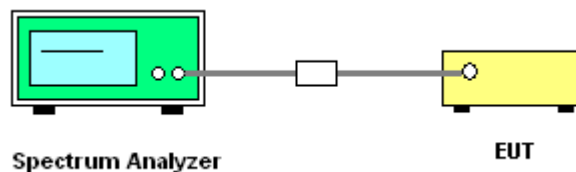
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

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

3.7.2 Measuring Instruments

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

3.7.3 Test Result of Automatically Discontinue Transmission

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



3.8 Antenna Requirements

3.8.1 Standard Applicable

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

3.8.2 Antenna Anti-Replacement Construction

Non-standard antenna connector is used.

3.8.3 Antenna Gain

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



4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Sep. 10, 2015	May 10, 2016~ Jun. 16, 2016	Sep. 09, 2016	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 20, 2016	May 10, 2016~ Jun. 16, 2016	Jan. 19, 2017	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 20, 2016	May 10, 2016~ Jun. 16, 2016	Jan. 19, 2017	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 24, 2015	May 10, 2016~ Jun. 16, 2016	Oct. 23, 2016	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 10, 2015	May 10, 2016 Jun. 14, 2016	Sep. 09, 2016	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 22, 2016	May 10, 2016 Jun. 14, 2016	Apr. 21, 2017	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 07, 2015	May 10, 2016 Jun. 14, 2016	Nov. 06, 2016	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 16, 2016	May 10, 2016 Jun. 14, 2016	Apr. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 16, 2016	May 10, 2016 Jun. 14, 2016	Apr. 15, 2017	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz ~40GHz	Mar. 03, 2016	May 10, 2016 Jun. 14, 2016	Mar. 02, 2017	Radiation (03CH03-KS)
Amplifier	Burgeon	BPA-530	102212	0.01MHz-3000M Hz	Aug. 10, 2015	May 10, 2016 Jun. 14, 2016	Aug. 09, 2016	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18~40GHz	Aug. 27, 2015	May 10, 2016 Jun. 14, 2016	Aug. 26, 2016	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	1889560	1GHz-18GHz	Aug. 10, 2015	May 10, 2016 Jun. 14, 2016	Aug. 09, 2016	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 24, 2015	May 10, 2016 Jun. 14, 2016	Oct. 23, 2016	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 10, 2016 Jun. 14, 2016	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 10, 2016 Jun. 14, 2016	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 10, 2016 Jun. 14, 2016	NCR	Radiation (03CH03-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 10, 2015	May 29, 2016	Sep. 09, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	May 29, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	May 29, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	May 29, 2016	Oct. 23, 2016	Conduction (CO01-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% ($U = 2Uc(y)$)	2.3dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6dB
---	-------



Appendix A. Conducted Test Results

Report Number : FR642912E

Test Engineer:	Ivan Wang	Temperature:	24~25	°C
Test Date:	2016/5/10~2016/6/16	Relative Humidity:	54~55	%

TEST RESULTS DATA
26dB and 99% OBW

Band I										
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	-	-
11a	6Mbps	1	36	5180	19.33	31.22	-	-	-	-
11a	6Mbps	1	44	5220	19.68	32.57	-	-	-	-
11a	6Mbps	1	48	5240	20.58	36.66	-	-	-	-
HT20	MCS0	1	36	5180	19.73	31.12	-	-	-	-
HT20	MCS0	1	44	5220	20.08	30.72	-	-	-	-
HT20	MCS0	1	48	5240	19.98	32.12	-	-	-	-
HT40	MCS0	1	38	5190	37.16	46.75	-	-	-	-
HT40	MCS0	1	46	5230	36.96	49.99	-	-	-	-
VHT20	MCS0	1	36	5180	20.48	38.01	-	-	-	-
VHT20	MCS0	1	44	5220	21.38	38.46	-	-	-	-
VHT20	MCS0	1	48	5240	21.78	38.11	-	-	-	-
VHT40	MCS0	1	38	5190	37.46	54.31	-	-	-	-
VHT40	MCS0	1	46	5230	37.86	60.15	-	-	-	-
VHT80	MCS0	1	42	5210	75.16	87.75	-	-	-	-

TEST RESULTS DATA
Average Power Table

FCC Band I										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.59	16.29	24.00	-2.40	-	Pass
11a	6Mbps	1	44	5220	0.59	15.84	24.00	-2.40		Pass
11a	6Mbps	1	48	5240	0.59	15.78	24.00	-2.40		Pass
HT20	MCS0	1	36	5180	0.61	15.39	24.00	-2.40		Pass
HT20	MCS0	1	44	5220	0.61	15.00	24.00	-2.40		Pass
HT20	MCS0	1	48	5240	0.61	14.93	24.00	-2.40		Pass
HT40	MCS0	1	38	5190	1.20	15.40	24.00	-2.40		Pass
HT40	MCS0	1	46	5230	1.20	15.01	24.00	-2.40		Pass
VHT20	MCS0	1	36	5180	0.81	16.26	24.00	-2.40		Pass
VHT20	MCS0	1	44	5220	0.81	15.88	24.00	-2.40		Pass
VHT20	MCS0	1	48	5240	0.81	15.82	24.00	-2.40		Pass
VHT40	MCS0	1	38	5190	1.47	16.12	24.00	-2.40		Pass
VHT40	MCS0	1	46	5230	1.47	15.82	24.00	-2.40		Pass
VHT80	MCS0	1	42	5210	2.57	15.70	24.00	-2.40		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.59	4.91	11.00	-2.40	-	Pass
11a	6Mbps	1	44	5220	0.59	4.41	11.00	-2.40		Pass
11a	6Mbps	1	48	5240	0.59	4.73	11.00	-2.40		Pass
HT20	MCS0	1	36	5180	0.61	3.88	11.00	-2.40		Pass
HT20	MCS0	1	44	5220	0.61	3.64	11.00	-2.40		Pass
HT20	MCS0	1	48	5240	0.61	3.60	11.00	-2.40		Pass
HT40	MCS0	1	38	5190	1.20	1.33	11.00	-2.40		Pass
HT40	MCS0	1	46	5230	1.20	0.69	11.00	-2.40		Pass
VHT20	MCS0	1	36	5180	0.81	4.61	11.00	-2.40		Pass
VHT20	MCS0	1	44	5220	0.81	4.63	11.00	-2.40		Pass
VHT20	MCS0	1	48	5240	0.81	4.67	11.00	-2.40		Pass
VHT40	MCS0	1	38	5190	1.47	1.71	11.00	-2.40		Pass
VHT40	MCS0	1	46	5230	1.47	1.68	11.00	-2.40		Pass
VHT80	MCS0	1	42	5210	2.57	-1.37	11.00	-2.40		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	20.18	35.42	23.98	30.00	23.98	-
11a	6M bps	1	60	5300	20.03	28.57	23.98	30.00	23.98	-
11a	6M bps	1	64	5320	20.73	37.96	23.98	30.00	23.98	-
HT20	MCS 0	1	52	5260	20.03	31.67	23.98	30.00	23.98	-
HT20	MCS 0	1	60	5300	20.18	34.02	23.98	30.00	23.98	-
HT20	MCS 0	1	64	5320	20.33	35.91	23.98	30.00	23.98	-
HT40	MCS 0	1	54	5270	37.06	49.99	23.98	30.00	23.98	-
HT40	MCS 0	1	62	5310	37.26	50.26	23.98	30.00	23.98	-
VHT20	MCS 0	1	52	5260	21.28	37.91	23.98	30.00	23.98	-
VHT20	MCS 0	1	60	5300	21.48	37.81	23.98	30.00	23.98	-
VHT20	MCS 0	1	64	5320	22.33	41.26	23.98	30.00	23.98	-
VHT40	MCS 0	1	54	5270	37.16	49.45	23.98	30.00	23.98	-
VHT40	MCS 0	1	62	5310	37.36	53.95	23.98	30.00	23.98	-
VHT80	MCS 0	1	58	5290	75.04	86.47	23.98	30.00	23.98	-

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	-	Pass/Fail
11a	6M bps	1	52	5260	0.59	15.99	23.98	-2.40	-	Pass
11a	6M bps	1	60	5300	0.59	15.65	23.98	-2.40		Pass
11a	6M bps	1	64	5320	0.59	15.71	23.98	-2.40		Pass
HT20	MCS 0	1	52	5260	0.61	15.09	23.98	-2.40		Pass
HT20	MCS 0	1	60	5300	0.61	14.76	23.98	-2.40		Pass
HT20	MCS 0	1	64	5320	0.61	14.81	23.98	-2.40		Pass
HT40	MCS 0	1	54	5270	1.20	15.10	23.98	-2.40		Pass
HT40	MCS 0	1	62	5310	1.20	14.83	23.98	-2.40		Pass
VHT20	MCS 0	1	52	5260	0.81	15.96	23.98	-2.40		Pass
VHT20	MCS 0	1	60	5300	0.81	15.64	23.98	-2.40		Pass
VHT20	MCS 0	1	64	5320	0.81	15.68	23.98	-2.40		Pass
VHT40	MCS 0	1	54	5270	1.47	15.08	23.98	-2.40		Pass
VHT40	MCS 0	1	62	5310	1.47	14.82	23.98	-2.40		Pass
VHT80	MCS 0	1	58	5290	2.57	14.43	23.98	-2.40		Pass

TEST RESULTS DATA
Power Spectral Density

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6M bps	1	52	5260	0.59	4.86	11.00	-2.40		Pass
11a	6M bps	1	60	5300	0.59	4.42	11.00	-2.40		Pass
11a	6M bps	1	64	5320	0.59	4.35	11.00	-2.40		Pass
HT20	MCS 0	1	52	5260	0.61	3.76	11.00	-2.40		Pass
HT20	MCS 0	1	60	5300	0.61	3.23	11.00	-2.40		Pass
HT20	MCS 0	1	64	5320	0.61	3.24	11.00	-2.40		Pass
HT40	MCS 0	1	54	5270	1.20	0.86	11.00	-2.40		Pass
HT40	MCS 0	1	62	5310	1.20	0.41	11.00	-2.40		Pass
VHT20	MCS 0	1	52	5260	0.81	4.96	11.00	-2.40		Pass
VHT20	MCS 0	1	60	5300	0.81	4.72	11.00	-2.40		Pass
VHT20	MCS 0	1	64	5320	0.81	4.20	11.00	-2.40		Pass
VHT40	MCS 0	1	54	5270	1.47	1.08	11.00	-2.40		Pass
VHT40	MCS 0	1	62	5310	1.47	0.91	11.00	-2.40		Pass
VHT80	MCS 0	1	58	5290	2.57	-2.28	11.00	-2.40		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	100	5500	19.88	29.12	23.98	29.98	23.98	-
11a	6M bps	1	116	5580	20.08	29.22	23.98	30.00	23.98	-
11a	6M bps	1	140	5700	19.83	28.17	23.97	29.97	23.98	-
HT20	MCS 0	1	100	5500	19.83	26.37	23.97	29.97	23.98	-
HT20	MCS 0	1	116	5580	19.93	28.62	23.98	30.00	23.98	-
HT20	MCS 0	1	140	5700	19.83	27.37	23.97	29.97	23.98	-
HT40	MCS 0	1	102	5510	37.26	51.70	23.98	30.00	23.98	-
HT40	MCS 0	1	110	5550	37.06	46.75	23.98	30.00	23.98	-
HT40	MCS 0	1	134	5670	37.66	51.88	23.98	30.00	23.98	-
VHT20	MCS 0	1	100	5500	20.53	34.32	23.98	30.00	23.98	-
VHT20	MCS 0	1	116	5580	20.83	33.07	23.98	30.00	23.98	-
VHT20	MCS 0	1	140	5700	20.33	32.42	23.98	30.00	23.98	-
VHT40	MCS 0	1	102	5510	37.76	52.87	23.98	30.00	23.98	-
VHT40	MCS 0	1	110	5550	37.56	49.72	23.98	30.00	23.98	-
VHT40	MCS 0	1	134	5670	38.36	57.72	23.98	30.00	23.98	-
VHT80	MCS 0	1	106	5530	74.93	84.72	23.98	30.00	23.98	-
VHT80	MCS 0	1	122	5610	74.81	85.51	23.98	30.00	23.98	-

TEST RESULTS DATA
Average Power Table

FCC Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	-	Pass/Fail
11a	6M bps	1	100	5500	0.59	15.34	23.98	-2.40	-	Pass
11a	6M bps	1	116	5580	0.59	15.03	23.98	-2.40		Pass
11a	6M bps	1	140	5700	0.59	14.89	23.98	-2.40		Pass
HT20	MCS 0	1	100	5500	0.61	14.36	23.98	-2.40		Pass
HT20	MCS 0	1	116	5580	0.61	14.09	23.98	-2.40		Pass
HT20	MCS 0	1	140	5700	0.61	13.96	23.98	-2.40		Pass
HT40	MCS 0	1	102	5510	1.20	14.43	23.98	-2.40		Pass
HT40	MCS 0	1	110	5550	1.20	14.33	23.98	-2.40		Pass
HT40	MCS 0	1	134	5670	1.20	13.68	23.98	-2.40		Pass
VHT20	MCS 0	1	100	5500	0.81	15.27	23.98	-2.40		Pass
VHT20	MCS 0	1	116	5580	0.81	15.03	23.98	-2.40		Pass
VHT20	MCS 0	1	140	5700	0.81	14.89	23.98	-2.40		Pass
VHT40	MCS 0	1	102	5510	1.47	15.21	23.98	-2.40		Pass
VHT40	MCS 0	1	110	5550	1.47	15.17	23.98	-2.40		Pass
VHT40	MCS 0	1	134	5670	1.47	14.54	23.98	-2.40		Pass
VHT80	MCS 0	1	106	5530	2.57	13.14	23.98	-2.40		Pass
VHT80	MCS 0	1	122	5610	2.57	12.68	23.98	-2.40		Pass

TEST RESULTS DATA
Power Spectral Density

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6M bps	1	100	5500	0.59	4.35	11.00	-2.40	-	Pass
11a	6M bps	1	116	5580	0.59	4.11	11.00	-2.40		Pass
11a	6M bps	1	140	5700	0.59	3.85	11.00	-2.40		Pass
HT20	MCS 0	1	100	5500	0.61	2.93	11.00	-2.40		Pass
HT20	MCS 0	1	116	5580	0.61	2.71	11.00	-2.40		Pass
HT20	MCS 0	1	140	5700	0.61	2.72	11.00	-2.40		Pass
HT40	MCS 0	1	102	5510	1.20	0.23	11.00	-2.40		Pass
HT40	MCS 0	1	110	5550	1.20	-0.06	11.00	-2.40		Pass
HT40	MCS 0	1	134	5670	1.20	-0.05	11.00	-2.40		Pass
VHT20	MCS 0	1	100	5500	0.81	3.52	11.00	-2.40		Pass
VHT20	MCS 0	1	116	5580	0.81	4.26	11.00	-2.40		Pass
VHT20	MCS 0	1	140	5700	0.81	4.05	11.00	-2.40		Pass
VHT40	MCS 0	1	102	5510	1.47	1.23	11.00	-2.40		Pass
VHT40	MCS 0	1	110	5550	1.47	1.03	11.00	-2.40		Pass
VHT40	MCS 0	1	134	5670	1.47	0.80	11.00	-2.40		Pass
VHT80	MCS 0	1	106	5530	2.57	-3.06	11.00	-2.40		Pass
VHT80	MCS 0	1	122	5610	2.57	-3.78	11.00	-2.40		Pass

TEST RESULTS DATA
26dB and 99% OBW

Straddle Channel											
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)	6DB Bandwidth (MHz)	Emission Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6Mbps	1	144	5720	19.23	16.34	31.17	-	-	-	-
				NII-2C	14.8901	13.152	22.832	22.73	28.73	23.98	-
				NII-3	4.3407	3.192	8.337	23.38	29.38	-	-
HT20	MCS0	1	144	5720	19.78	17.56	28.52	-	-	-	-
				NII-2C	15.0899	13.771	20.534	22.79	28.79	23.98	-
				NII-3	4.6903	3.791	7.987	23.71	29.71	-	-
HT40	MCS0	1	142	5710	36.76	35.13	52.96	-	-	-	-
				NII-2C	33.3816	32.542	43.142	23.98	30.00	23.98	-
				NII-3	3.3816	2.583	9.815	22.29	28.29	-	-
VHT20	MCS0	1	144	5720	20.33	17.56	35.71	-	-	-	-
				NII-2C	15.4396	13.771	23.731	22.89	28.89	23.98	-
				NII-3	4.8901	3.791	11.983	23.89	29.89	-	-
VHT40	MCS0	1	142	5710	37.56	35.13	52.60	-	-	-	-
				NII-2C	33.981	32.542	42.602	23.98	30.00	23.98	-
				NII-3	3.5814	2.583	9.995	22.54	28.54	-	-
VHT80	MCS0	1	138	5690	74.93	75.05	86.00	-	-	-	-
				NII-2C	72.522	72.48	78	23.98	30.00	23.98	-
				NII-3	2.403	2.565	8	20.81	26.81	-	-

TEST RESULTS DATA
Average Power Table

FCC Straddle Channel										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	144	5720	0.59	13.57	-	-2.40		Pass
				NII-2C	0.59	12.42	23.98	-2.40		Pass
				NII-3	0.59	7.24	30.00	-2.40		Pass
HT20	MCS0	1	144	5720	0.61	13.48	-	-2.40		Pass
				NII-2C	0.61	12.44	23.98	-2.40		Pass
				NII-3	0.61	6.77	30.00	-2.40		Pass
HT40	MCS0	1	142	5710	1.20	13.37	-	-2.40		Pass
				NII-2C	1.20	13.08	23.98	-2.40		Pass
				NII-3	1.20	1.46	30.00	-2.40		Pass
VHT20	MCS0	1	144	5720	0.81	14.32	-	-2.40		Pass
				NII-2C	0.81	13.28	23.98	-2.40		Pass
				NII-3	0.81	7.62	30.00	-2.40		Pass
VHT40	MCS0	1	142	5710	1.47	13.60	-	-2.40		Pass
				NII-2C	1.47	13.26	23.98	-2.40		Pass
				NII-3	1.47	2.31	30.00	-2.40		Pass
VHT80	MCS0	1	138	5690	2.57	10.72	-	-2.40		Pass
				NII-2C	2.57	10.65	23.98	-2.40		Pass
				NII-3	2.57	-7.52	30.00	-2.40		Pass

TEST RESULTS DATA
Power Spectral Density

Straddle Channel										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	144	NII-2C	0.59	3.87	11.00	-2.40	-	Pass
				NII-3	0.59	3.87	30.00	-2.40		Pass
HT20	MCS0	1	144	NII-2C	0.61	2.42	11.00	-2.40		Pass
				NII-3	0.61	2.42	30.00	-2.40		Pass
HT40	MCS0	1	142	NII-2C	1.20	-0.32	11.00	-2.40		Pass
				NII-3	1.20	-0.32	30.00	-2.40		Pass
VHT20	MCS0	1	144	NII-2C	0.81	3.61	11.00	-2.40		Pass
				NII-3	0.81	3.61	30.00	-2.40		Pass
VHT40	MCS0	1	142	NII-2C	1.47	0.92	11.00	-2.40		Pass
				NII-3	1.47	0.92	30.00	-2.40		Pass
VHT80	MCS0	1	138	NII-2C	2.57	-4.23	11.00	-2.40		Pass
				NII-3	2.57	-4.23	30.00	-2.40		Pass

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.025	0.025	4.83	20	3.55	-
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.4	-
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.9	-
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	-30	3.9	-
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	50	3.9	-

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.025	0.025	4.70	20	3.55	-
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	4.4	-
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.9	-
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	-30	3.9	-
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	50	3.9	-

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5500.025	0.025	4.55	20	3.55	-
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	4.4	-
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	3.9	-
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	-30	3.9	-
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	50	3.9	-



Appendix B. Radiated Spurious Emission

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.6	47.48	-26.52	74	44.04	31.84	8.13	36.53	126	22	P	H
		5149.4	37.66	-16.34	54	34.22	31.84	8.13	36.53	126	22	A	H
	*	5186	92.7	-	-	89.19	31.85	8.17	36.51	126	22	P	H
	*	5184	85.22	-	-	81.71	31.85	8.17	36.51	126	22	A	H
		5148.5	48.33	-25.67	74	44.89	31.84	8.13	36.53	392	38	P	V
		5149.5	38.53	-15.47	54	35.09	31.84	8.13	36.53	392	38	A	V
	*	5174	95.46	-	-	91.95	31.85	8.17	36.51	392	38	P	V
	*	5176	88.1	-	-	84.59	31.85	8.17	36.51	392	38	A	V
802.11a CH 44 5220MHz	*	5222	87.69	-	-	84.13	31.86	8.2	36.5	100	33	P	H
	*	5224	80.64	-	-	77.08	31.86	8.2	36.5	100	33	A	H
	*	5216	95.98	-	-	92.42	31.86	8.2	36.5	317	35	P	V
	*	5226	89.03	-	-	85.45	31.87	8.21	36.5	317	35	A	V
802.11a CH 48 5240MHz	*	5246	91.25	-	-	87.65	31.88	8.22	36.5	100	36	P	H
	*	5244	83.7	-	-	80.1	31.88	8.22	36.5	100	36	A	H
		5358	45.63	-28.37	74	41.93	31.91	8.29	36.5	100	36	P	H
		5383.45	36.27	-17.73	54	32.53	31.92	8.32	36.5	100	36	A	H
	*	5242	95.58	-	-	91.98	31.88	8.22	36.5	323	14	P	V
	*	5244	88.52	-	-	84.92	31.88	8.22	36.5	323	14	A	V
		5387.1	45.85	-28.15	74	42.11	31.92	8.32	36.5	323	14	P	V
		5389.05	36.48	-17.52	54	32.74	31.92	8.32	36.5	323	14	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11a (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		10359	54.93	-19.07	74	64.47	38.02	13.54	61.1	140	45	P	H
CH 36	!	10359	52.37	-1.63	54	61.91	38.02	13.54	61.1	140	45	A	H
5180MHz		10359	47.94	-26.06	74	57.48	38.02	13.54	61.1	100	360	P	V
802.11a		10440	52.53	-21.47	74	61.96	38.06	13.58	61.07	108	346	P	H
CH 44		10440	47.79	-6.21	54	57.22	38.06	13.58	61.07	108	346	A	H
5220MHz		10440	45.41	-28.59	74	54.84	38.06	13.58	61.07	100	0	P	V
802.11a		10479	54.84	-19.16	74	64.18	38.09	13.61	61.04	107	288	P	H
CH 48	!	10479	52.13	-1.87	54	61.47	38.09	13.61	61.04	107	288	A	H
5240MHz		10479	47.05	-26.95	74	56.39	38.09	13.61	61.04	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5148.35	50.41	-23.59	74	46.97	31.84	8.13	36.53	262	328	P	H
		5149.75	38.54	-15.46	54	35.1	31.84	8.13	36.53	262	328	A	H
	*	5184	94.83	-	-	91.32	31.85	8.17	36.51	262	328	P	H
	*	5184	87.53	-	-	84.02	31.85	8.17	36.51	262	328	A	H
		5104.45	47.33	-26.67	74	43.98	31.83	8.08	36.56	347	30	P	V
		5103.85	36.79	-17.21	54	33.44	31.83	8.08	36.56	347	30	A	V
	*	5186	89.08	-	-	85.57	31.85	8.17	36.51	347	30	P	V
	*	5188	81.46	-	-	77.95	31.85	8.17	36.51	347	30	A	V
802.11n HT20 CH 44 5220MHz	*	5224	92.48	-	-	88.92	31.86	8.2	36.5	100	298	P	H
	*	5224	85.32	-	-	81.76	31.86	8.2	36.5	100	298	A	H
	*	5226	86.06	-	-	82.48	31.87	8.21	36.5	100	112	P	V
	*	5224	78.99	-	-	75.43	31.86	8.2	36.5	100	112	A	V
802.11n HT20 CH 48 5240MHz	*	5244	96.3	-	-	92.7	31.88	8.22	36.5	362	329	P	H
	*	5246	88.78	-	-	85.18	31.88	8.22	36.5	362	329	A	H
		5355.6	45.98	-28.02	74	42.28	31.91	8.29	36.5	362	329	P	H
		5389.05	36.52	-17.48	54	32.78	31.92	8.32	36.5	362	329	A	H
	*	5246	89.58	-	-	85.98	31.88	8.22	36.5	314	14	P	V
	*	5244	81.98	-	-	78.38	31.88	8.22	36.5	314	14	A	V
		5384.75	44.92	-29.08	74	41.18	31.92	8.32	36.5	314	14	P	V
		5380.9	36.1	-17.9	54	32.36	31.92	8.32	36.5	314	14	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10359	44.39	-29.61	74	53.93	38.02	13.54	61.1	100	0	P	H
		10359	49.13	-24.87	74	58.67	38.02	13.54	61.1	100	26	P	V
		10359	47	-7	54	56.54	38.02	13.54	61.1	100	26	A	V
802.11n HT20 CH 44 5220MHz		10440	45.36	-28.64	74	54.79	38.06	13.58	61.07	100	0	P	H
		10440	48.96	-25.04	74	58.39	38.06	13.58	61.07	100	27	P	V
		10440	46.21	-7.79	54	55.64	38.06	13.58	61.07	100	27	A	V
802.11n HT20 CH 48 5240MHz		10479	46.53	-27.47	74	55.87	38.09	13.61	61.04	100	360	P	H
		10479	48.89	-25.11	74	58.23	38.09	13.61	61.04	100	25	P	V
	!	10479	48.18	-5.82	54	57.52	38.09	13.61	61.04	100	25	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5146.4	55.88	-18.12	74	52.44	31.84	8.13	36.53	327	316	P	H
		5149.75	45.1	-8.9	54	41.66	31.84	8.13	36.53	327	316	A	H
	*	5196	93.12	-	-	89.57	31.86	8.19	36.5	327	316	P	H
	*	5202	86.21	-	-	82.66	31.86	8.19	36.5	327	316	A	H
		5146.85	50.39	-23.61	74	46.95	31.84	8.13	36.53	155	347	P	V
		5149.75	40.11	-13.89	54	36.67	31.84	8.13	36.53	155	347	A	V
	*	5204	87.27	-	-	83.72	31.86	8.19	36.5	155	347	P	V
	*	5200	80.28	-	-	76.73	31.86	8.19	36.5	155	347	A	V
802.11n HT40 CH 46 5230MHz	*	5234	93.76	-	-	90.18	31.87	8.21	36.5	342	341	P	H
	*	5242	86.6	-	-	83	31.88	8.22	36.5	342	341	A	H
		5398.05	45.35	-28.65	74	41.6	31.92	8.33	36.5	342	341	P	H
		5358.9	36.85	-17.15	54	33.15	31.91	8.29	36.5	342	341	A	H
	*	5242	89.27	-	-	85.67	31.88	8.22	36.5	100	347	P	V
	*	5240	82.13	-	-	78.55	31.87	8.21	36.5	100	347	A	V
		5380.8	45.16	-28.84	74	41.42	31.92	8.32	36.5	100	347	P	V
		5395.25	36.62	-17.38	54	32.87	31.92	8.33	36.5	100	347	A	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	46.54	-27.46	74	56.06	38.03	13.55	61.1	100	360	P	H
		10380	48.34	-25.66	74	57.86	38.03	13.55	61.1	100	0	P	V
802.11n HT40 CH 46 5230MHz		10461	45.48	-28.52	74	54.85	38.08	13.6	61.05	100	302	P	H
		10461	49.71	-24.29	74	59.08	38.08	13.6	61.05	100	32	P	V
		10461	47.86	-6.14	54	57.23	38.08	13.6	61.05	100	32	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 VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 36 5180MHz		5150	51.85	-22.15	74	48.41	31.84	8.13	36.53	312	21	P	H
		5149.95	40.04	-13.96	54	36.6	31.84	8.13	36.53	312	21	A	H
	*	5186	92.94	-	-	89.43	31.85	8.17	36.51	312	21	P	H
	*	5188	85.95	-	-	82.44	31.85	8.17	36.51	312	21	A	H
		5149.4	50.46	-23.54	74	47.02	31.84	8.13	36.53	300	22	P	V
		5150	38.96	-15.04	54	35.52	31.84	8.13	36.53	300	22	A	V
	*	5186	90.3	-	-	86.79	31.85	8.17	36.51	300	22	P	V
802.11ac VHT20 CH 44 5220MHz	*	5184	83.41	-	-	79.9	31.85	8.17	36.51	300	22	A	V
	*	5226	97.84	-	-	94.26	31.87	8.21	36.5	305	327	P	H
	*	5224	90.68	-	-	87.12	31.86	8.2	36.5	305	327	A	H
	*	5228	90.49	-	-	86.91	31.87	8.21	36.5	300	38	P	V
802.11ac VHT20 CH 48 5240MHz	*	5224	83.45	-	-	79.89	31.86	8.2	36.5	300	38	A	V
	*	5242	97.08	-	-	93.48	31.88	8.22	36.5	336	320	P	H
	*	5244	90.34	-	-	86.74	31.88	8.22	36.5	336	320	A	H
		5398	45.59	-28.41	74	41.84	31.92	8.33	36.5	336	320	P	H
		5376.45	37.13	-16.87	54	33.41	31.91	8.31	36.5	336	320	A	H
	*	5246	91.06	-	-	87.46	31.88	8.22	36.5	307	27	P	V
	*	5244	84.25	-	-	80.65	31.88	8.22	36.5	307	27	A	V
		5353.05	45.56	-28.44	74	41.86	31.91	8.29	36.5	307	27	P	V
Remark		5379.6	36.85	-17.15	54	33.11	31.92	8.32	36.5	307	27	A	V
	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 36 5180MHz		10359	45.44	-28.56	74	54.98	38.02	13.54	61.1	100	360	P	H
		10359	52.29	-21.71	74	61.83	38.02	13.54	61.1	100	26	P	V
	!	10359	48.52	-5.48	54	58.06	38.02	13.54	61.1	100	26	A	V
802.11ac VHT20 CH 44 5220MHz		10440	46.04	-27.96	74	55.47	38.06	13.58	61.07	100	0	P	H
		10440	52.27	-21.73	74	61.7	38.06	13.58	61.07	104	31	P	V
	!	10440	48.78	-5.22	54	58.21	38.06	13.58	61.07	104	31	A	V
802.11ac VHT20 CH 48 5240MHz		10479	44.93	-29.07	74	54.27	38.09	13.61	61.04	100	360	P	H
		10479	52.85	-21.15	74	62.19	38.09	13.61	61.04	100	0	P	V
	!	10479	48.91	-5.09	54	58.25	38.09	13.61	61.04	113	25	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz	*	5200	94.83	-	-	91.28	31.86	8.19	36.5	301	325	P	H
	*	5202	87.64	-	-	84.09	31.86	8.19	36.5	301	325	A	H
		5148.95	58.12	-15.88	74	54.68	31.84	8.13	36.53	301	325	P	H
		5149.6	46.41	-7.59	54	42.97	31.84	8.13	36.53	301	325	A	H
	*	5194	86.85	-	-	83.3	31.86	8.19	36.5	109	107	P	V
	*	5188	79.94	-	-	76.43	31.85	8.17	36.51	109	107	A	V
		5148.45	51.96	-22.04	74	48.52	31.84	8.13	36.53	109	107	P	V
		5148.7	40.99	-13.01	54	37.55	31.84	8.13	36.53	109	107	A	V
802.11ac VHT40 CH 46 5230MHz	*	5244	95.08	-	-	91.48	31.88	8.22	36.5	300	323	P	H
	*	5238	87.95	-	-	84.37	31.87	8.21	36.5	300	323	A	H
		5375.7	45.62	-28.38	74	41.9	31.91	8.31	36.5	300	323	P	H
		5360.75	37.3	-16.7	54	33.58	31.91	8.31	36.5	300	323	A	H
	*	5228	87.92	-	-	84.34	31.87	8.21	36.5	340	34	P	V
	*	5218	80.93	-	-	77.37	31.86	8.2	36.5	340	34	A	V
		5373.95	45.64	-28.36	74	41.92	31.91	8.31	36.5	340	34	P	V
		5388.6	36.88	-17.12	54	33.14	31.92	8.32	36.5	340	34	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		10380	45.27	-28.73	74	54.79	38.03	13.55	61.1	100	0	P	H
		10380	52.88	-21.12	74	62.4	38.03	13.55	61.1	100	30	P	V
	!	10380	48.78	-5.22	54	58.3	38.03	13.55	61.1	100	30	A	V
802.11ac VHT40 CH 46 5230MHz		10461	44.03	-29.97	74	53.4	38.08	13.6	61.05	100	360	P	H
		10461	52.28	-21.72	74	61.65	38.08	13.6	61.05	108	31	P	V
	!	10461	49.16	-4.84	54	58.53	38.08	13.6	61.05	108	31	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz	*	5224	88.78	-	-	85.22	31.86	8.2	36.5	100	36	P	H
	*	5214	82.16	-	-	78.6	31.86	8.2	36.5	100	36	A	H
		5147.6	52.87	-21.13	74	49.43	31.84	8.13	36.53	100	36	P	H
		5149.6	43.86	-10.14	54	40.42	31.84	8.13	36.53	100	36	A	H
		5380.2	45.65	-28.35	74	41.91	31.92	8.32	36.5	100	36	P	H
		5391.85	38.47	-15.53	54	34.73	31.92	8.32	36.5	100	36	A	H
	*	5204	85.21	-	-	81.66	31.86	8.19	36.5	361	261	P	V
	*	5214	78.17	-	-	74.61	31.86	8.2	36.5	361	261	A	V
		5150	49.89	-24.11	74	46.45	31.84	8.13	36.53	361	261	P	V
		5148.85	41.06	-12.94	54	37.62	31.84	8.13	36.53	361	261	A	V
		5351.15	45.53	-28.47	74	41.83	31.91	8.29	36.5	361	261	P	V
		5382.2	38.33	-15.67	54	34.59	31.92	8.32	36.5	361	261	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	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		10419	44.29	-29.71	74	53.75	38.05	13.57	61.08	100	360	P	H
VHT80		10419	50.59	-23.41	74	60.05	38.05	13.57	61.08	101	23	P	V
CH 42 5210MHz		10419	47.1	-6.9	54	56.56	38.05	13.57	61.08	101	23	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 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5149.95	46.64	-27.36	74	43.2	31.84	8.13	36.53	255	23	P	H
		5100.1	37.05	-16.95	54	33.7	31.83	8.08	36.56	255	23	A	H
	*	5266	90.52	-	-	86.91	31.88	8.23	36.5	255	23	P	H
	*	5264	83.09	-	-	79.48	31.88	8.23	36.5	255	23	A	H
		5111.45	47.17	-26.83	74	43.79	31.83	8.1	36.55	390	32	P	V
		5112.35	37.17	-16.83	54	33.79	31.83	8.1	36.55	390	32	A	V
	*	5266	97.52	-	-	93.91	31.88	8.23	36.5	390	32	P	V
	*	5256	90.15	-	-	86.55	31.88	8.22	36.5	390	32	A	V
802.11a CH 60 5300MHz	*	5304	92.12	-	-	88.47	31.89	8.26	36.5	292	4	P	H
	*	5304	84.73	-	-	81.08	31.89	8.26	36.5	292	4	A	H
	*	5304	96.08	-	-	92.43	31.89	8.26	36.5	389	25	P	V
	*	5294	88.7	-	-	85.05	31.89	8.26	36.5	389	25	A	V
802.11a CH 64 5320MHz	*	5324	91.94	-	-	88.27	31.9	8.27	36.5	305	11	P	H
	*	5324	84.74	-	-	81.07	31.9	8.27	36.5	305	11	A	H
		5351.85	51.91	-22.09	74	48.21	31.91	8.29	36.5	305	11	P	H
		5350.95	39	-15	54	35.3	31.91	8.29	36.5	305	11	A	H
	*	5324	97.59	-	-	93.92	31.9	8.27	36.5	379	37	P	V
	*	5324	90.36	-	-	86.69	31.9	8.27	36.5	379	37	A	V
		5351.55	57.98	-16.02	74	54.28	31.91	8.29	36.5	379	37	P	V
		5350.55	42.63	-11.37	54	38.93	31.91	8.29	36.5	379	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. 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		10521	50.86	-23.14	74	60.15	38.11	13.63	61.03	100	360	P	H
CH 52 5260MHz		10521	45.62	-28.38	74	54.91	38.11	13.63	61.03	100	360	P	V
802.11a		10599	50.36	-23.64	74	59.5	38.16	13.68	60.98	110	342	P	H
CH 60	!	10599	49.59	-4.41	54	58.73	38.16	13.68	60.98	110	342	A	H
5300MHz		10599	43.31	-30.69	74	52.45	38.16	13.68	60.98	100	0	P	V
802.11a		10641	54.13	-19.87	74	63.22	38.18	13.7	60.97	111	341	P	H
CH 64	!	10641	50.57	-3.43	54	59.66	38.18	13.7	60.97	111	341	A	H
5320MHz		10641	46.49	-27.51	74	55.58	38.18	13.7	60.97	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz	*	5262	95.34	-	-	91.73	31.88	8.23	36.5	336	349	P	H
	*	5256	88.05	-	-	84.45	31.88	8.22	36.5	336	349	A	H
		5131.2	46.77	-27.23	74	43.36	31.84	8.11	36.54	336	349	P	H
		5112.55	36.84	-17.16	54	33.46	31.83	8.1	36.55	336	349	A	H
	*	5264	91.92	-	-	88.31	31.88	8.23	36.5	121	349	P	V
	*	5264	84.65	-	-	81.04	31.88	8.23	36.5	121	349	A	V
		5124.2	46.86	-27.14	74	43.45	31.84	8.11	36.54	121	349	P	V
		5105.45	36.76	-17.24	54	33.41	31.83	8.08	36.56	121	349	A	V
802.11n HT20 CH 60 5300MHz	*	5308	96.23	-	-	92.58	31.89	8.26	36.5	311	328	P	H
	*	5304	88.73	-	-	85.08	31.89	8.26	36.5	311	328	A	H
	*	5306	91.68	-	-	88.03	31.89	8.26	36.5	100	327	P	V
	*	5306	84.77	-	-	81.12	31.89	8.26	36.5	100	327	A	V
802.11n HT20 CH 64 5320MHz	*	5326	96.46	-	-	92.79	31.9	8.27	36.5	311	320	P	H
	*	5324	89.28	-	-	85.61	31.9	8.27	36.5	311	320	A	H
		5350.45	53.07	-20.93	74	49.37	31.91	8.29	36.5	311	320	P	H
		5350.05	39.43	-14.57	54	35.73	31.91	8.29	36.5	311	320	A	H
	*	5324	93.68	-	-	90.01	31.9	8.27	36.5	100	343	P	V
	*	5324	86.2	-	-	82.53	31.9	8.27	36.5	100	343	A	V
		5352.5	51.44	-22.56	74	47.74	31.91	8.29	36.5	100	343	P	V
		5372	38.43	-15.57	54	34.71	31.91	8.31	36.5	100	343	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	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		10521	47.43	-26.57	74	56.72	38.11	13.63	61.03	102	360	P	H
		10521	50.99	-23.01	74	60.28	38.11	13.63	61.03	106	27	P	V
	!	10521	48.84	-5.16	54	58.13	38.11	13.63	61.03	106	27	A	V
802.11n HT20 CH 60 5300MHz		10599	45.1	-28.9	74	54.24	38.16	13.68	60.98	100	360	P	H
		10599	50.98	-23.02	74	60.12	38.16	13.68	60.98	100	29	P	V
	!	10599	48.51	-5.49	54	57.65	38.16	13.68	60.98	100	29	A	V
802.11n HT20 CH 64 5320MHz		10641	46.37	-27.63	74	55.46	38.18	13.7	60.97	100	0	P	H
		10641	51.84	-22.16	74	60.93	38.18	13.7	60.97	100	12	P	V
	!	10641	49.16	-4.84	54	58.25	38.18	13.7	60.97	100	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 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5130.3	47.54	-26.46	74	44.13	31.84	8.11	36.54	343	321	P	H
		5111.95	37.25	-16.75	54	33.87	31.83	8.1	36.55	343	321	A	H
	*	5266	93.47	-	-	89.86	31.88	8.23	36.5	343	321	P	H
	*	5260	86.5	-	-	82.89	31.88	8.23	36.5	343	321	A	H
		5120	46.22	-27.78	74	42.84	31.83	8.1	36.55	100	329	P	V
		5140.55	37.21	-16.79	54	33.77	31.84	8.13	36.53	100	329	A	V
	*	5278	90.49	-	-	86.85	31.89	8.25	36.5	100	329	P	V
	*	5282	83.39	-	-	79.75	31.89	8.25	36.5	100	329	A	V
802.11n HT40 CH 62 5310MHz	*	5300	94.33	-	-	90.68	31.89	8.26	36.5	346	319	P	H
	*	5322	87.11	-	-	83.44	31.9	8.27	36.5	346	319	A	H
		5354.7	66.95	-7.05	74	63.25	31.91	8.29	36.5	346	319	P	H
	!	5350	52.41	-1.59	54	48.71	31.91	8.29	36.5	346	319	A	H
	*	5322	90.52	-	-	86.85	31.9	8.27	36.5	100	318	P	V
	*	5322	83.61	-	-	79.94	31.9	8.27	36.5	100	318	A	V
		5350.55	63.74	-10.26	74	60.04	31.91	8.29	36.5	100	318	P	V
	!	5350.4	49.8	-4.2	54	46.1	31.91	8.29	36.5	100	318	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10539	44.91	-29.09	74	54.17	38.12	13.64	61.02	100	360	P	H
		10539	52.21	-21.79	74	61.47	38.12	13.64	61.02	100	17	P	V
	!	10539	48.6	-5.4	54	57.86	38.12	13.64	61.02	100	17	A	V
802.11n HT40 CH 62 5310MHz		10620	44.89	-29.11	74	54.01	38.17	13.69	60.98	100	4	P	H
		10620	51.95	-22.05	74	61.07	38.17	13.69	60.98	100	13	P	V
	!	10620	49.1	-4.9	54	58.22	38.17	13.69	60.98	100	23	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 VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 52 5260MHz		5102.4	47.54	-26.46	74	44.19	31.83	8.08	36.56	301	329	P	H
		5108.8	37.5	-16.5	54	34.12	31.83	8.1	36.55	301	329	A	H
	*	5258	97.42	-	-	93.82	31.88	8.22	36.5	301	329	P	H
	*	5256	90.38	-	-	86.78	31.88	8.22	36.5	301	329	A	H
		5140.8	46.6	-27.4	74	43.16	31.84	8.13	36.53	337	29	P	V
		5108.7	37.35	-16.65	54	33.97	31.83	8.1	36.55	337	29	A	V
	*	5268	90.6	-	-	86.99	31.88	8.23	36.5	337	29	P	V
	*	5268	83.64	-	-	80.03	31.88	8.23	36.5	337	29	A	V
802.11ac VHT20 CH 60 5300MHz	*	5306	98.25	-	-	94.6	31.89	8.26	36.5	352	330	P	H
	*	5304	90.6	-	-	86.95	31.89	8.26	36.5	352	330	A	H
	*	5304	90.93	-	-	87.28	31.89	8.26	36.5	332	29	P	V
	*	5304	83.82	-	-	80.17	31.89	8.26	36.5	332	29	A	V
802.11ac VHT20 CH 64 5320MHz	*	5326	98.71	-	-	95.04	31.9	8.27	36.5	311	328	P	H
	*	5324	91.26	-	-	87.59	31.9	8.27	36.5	311	328	A	H
		5351.65	57.13	-16.87	74	53.43	31.91	8.29	36.5	311	328	P	H
		5350.35	43.93	-10.07	54	40.23	31.91	8.29	36.5	311	328	A	H
	*	5328	91.89	-	-	88.21	31.9	8.28	36.5	100	333	P	V
	*	5324	84.58	-	-	80.91	31.9	8.27	36.5	100	333	A	V
		5350.85	54.52	-19.48	74	50.82	31.91	8.29	36.5	100	333	P	V
		5350.75	40.1	-13.9	54	36.4	31.91	8.29	36.5	100	333	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 VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 52 5260MHz		10521	46.7	-27.3	74	55.99	38.11	13.63	61.03	100	0	P	H
		10521	52.76	-21.24	74	62.05	38.11	13.63	61.03	100	25	P	V
	!	10521	48.88	-5.12	54	58.17	38.11	13.63	61.03	100	25	A	V
802.11ac VHT20 CH 60 5300MHz		10599	44.07	-29.93	74	53.21	38.16	13.68	60.98	100	360	P	H
		10599	52.06	-21.94	74	61.2	38.16	13.68	60.98	100	24	P	V
	!	10599	48.06	-5.94	54	57.2	38.16	13.68	60.98	100	24	A	V
802.11ac VHT20 CH 64 5320MHz		10359	43.83	-30.17	74	53.37	38.02	13.54	61.1	100	360	P	H
		10641	53.33	-20.67	74	62.42	38.18	13.7	60.97	100	21	P	V
	!	10641	49.94	-4.06	54	59.03	38.18	13.7	60.97	100	21	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 54 5270MHz		5381.04	46.7	-27.3	74	42.96	31.92	8.32	36.5	314	325	P	H
		5373.84	37.83	-16.17	54	34.11	31.91	8.31	36.5	314	325	A	H
	*	5282	93.67	-	-	90.03	31.89	8.25	36.5	314	325	P	H
	*	5258	86.57	-	-	82.97	31.88	8.22	36.5	314	325	A	H
		5468.88	46.23	-27.77	74	42.3	31.95	8.38	36.4	317	31	P	V
		5447.92	37.27	-16.73	54	33.38	31.94	8.37	36.42	317	31	A	V
	*	5262	86.9	-	-	83.29	31.88	8.23	36.5	317	31	P	V
	*	5258	79.94	-	-	76.34	31.88	8.22	36.5	317	31	A	V
802.11ac VHT40 CH 62 5310MHz	*	5298	96.35	-	-	92.7	31.89	8.26	36.5	309	320	P	H
	*	5298	89.11	-	-	85.46	31.89	8.26	36.5	309	320	A	H
		5351.55	64.6	-9.4	74	60.9	31.91	8.29	36.5	309	320	P	H
	!	5350.05	53.52	-0.48	54	49.82	31.91	8.29	36.5	309	320	A	H
	*	5308	90.99	-	-	87.34	31.89	8.26	36.5	100	340	P	V
	*	5322	83.05	-	-	79.38	31.9	8.27	36.5	100	340	A	V
		5351.55	59.48	-14.52	74	55.78	31.91	8.29	36.5	100	340	P	V
		5350	47.89	-6.11	54	44.19	31.91	8.29	36.5	100	340	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10539	44.59	-29.41	74	53.85	38.12	13.64	61.02	100	360	P	H
VHT40		10539	53.25	-20.75	74	62.51	38.12	13.64	61.02	101	20	P	V
CH 54 5270MHz	!	10539	50.24	-3.76	54	59.5	38.12	13.64	61.02	101	20	A	V
802.11ac		10620	43.66	-30.34	74	52.78	38.17	13.69	60.98	100	0	P	H
VHT40		10620	49.14	-24.86	74	58.26	38.17	13.69	60.98	100	360	P	V
CH 62 5310MHz	!	10620	50.36	-3.64	54	59.48	38.17	13.69	60.98	102	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 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz	*	5304	90.35	-	-	86.7	31.89	8.26	36.5	391	320	P	H
	*	5294	83.73	-	-	80.08	31.89	8.26	36.5	391	320	A	H
		5108.95	46.2	-27.8	74	42.82	31.83	8.1	36.55	391	320	P	H
		5112.2	38.68	-15.32	54	35.3	31.83	8.1	36.55	391	320	A	H
		5373.6	58.4	-15.6	74	54.68	31.91	8.31	36.5	391	320	P	H
	!	5354.95	50.27	-3.73	54	46.57	31.91	8.29	36.5	391	320	A	H
	*	5264	83.44	-	-	79.83	31.88	8.23	36.5	332	32	P	V
	*	5294	76.8	-	-	73.15	31.89	8.26	36.5	332	32	A	V
		5125.05	46.9	-27.1	74	43.49	31.84	8.11	36.54	332	32	P	V
		5128.9	38.58	-15.42	54	35.17	31.84	8.11	36.54	332	32	A	V
		5358.75	51.63	-22.37	74	47.93	31.91	8.29	36.5	332	32	P	V
		5350.2	43.38	-10.62	54	39.68	31.91	8.29	36.5	332	32	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	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		10581	44.64	-29.36	74	53.81	38.15	13.67	60.99	100	360	P	H
VHT80		10581	51.42	-22.58	74	60.59	38.15	13.67	60.99	100	23	P	V
CH 58 5290MHz	!	10581	48.3	-5.7	54	57.47	38.15	13.67	60.99	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 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5469.04	54.71	-19.29	74	50.78	31.95	8.38	36.4	300	350	P	H
		5469.84	42.36	-11.64	54	38.43	31.95	8.38	36.4	300	350	A	H
	*	5494	95.82	-	-	91.86	31.95	8.39	36.38	300	350	P	H
	*	5496	88.43	-	-	84.47	31.95	8.39	36.38	300	350	A	H
		5469.84	61.61	-12.39	74	57.68	31.95	8.38	36.4	355	29	P	V
		5469.52	44.21	-9.79	54	40.28	31.95	8.38	36.4	355	29	A	V
	*	5496	98.79	-	-	94.83	31.95	8.39	36.38	355	29	P	V
	*	5494	91.79	-	-	87.83	31.95	8.39	36.38	355	29	A	V
802.11a CH 116 5580MHz	*	5582	95.82	-	-	91.6	31.98	8.47	36.23	358	354	P	H
	*	5584	88.7	-	-	84.48	31.98	8.47	36.23	358	354	A	H
	*	5586	96.43	-	-	92.21	31.98	8.47	36.23	300	353	P	V
	*	5586	89.17	-	-	84.95	31.98	8.47	36.23	300	353	A	V
802.11a CH 140 5700MHz	*	5706	94.82	-	-	90.51	32.03	8.55	36.27	391	0	P	H
	*	5706	87.2	-	-	82.89	32.03	8.55	36.27	391	0	A	H
		5725.8	56.82	-17.18	74	52.49	32.04	8.57	36.28	391	0	P	H
		5725	43.41	-10.59	54	39.08	32.04	8.57	36.28	391	0	A	H
	*	5706	97.06	-	-	92.75	32.03	8.55	36.27	338	30	P	V
	*	5696	89.49	-	-	85.18	32.02	8.54	36.25	338	30	A	V
		5726.28	56.03	-17.97	74	51.7	32.04	8.57	36.28	338	30	P	V
		5725	45.09	-8.91	54	40.76	32.04	8.57	36.28	338	30	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		11001	58.02	-15.98	74	66.5	38.4	13.91	60.79	100	359	P	H
CH 100	!	11001	52.12	-1.88	54	60.6	38.4	13.91	60.79	100	359	A	H
5500MHz		11007	50.53	-23.47	74	58.98	38.41	13.92	60.78	100	0	P	V
802.11a		11160	56.09	-17.91	74	64.32	38.47	14.01	60.71	100	351	P	H
CH 116	!	11160	51.38	-2.62	54	59.61	38.47	14.01	60.71	100	351	A	H
5580MHz		11160	44.78	-29.22	74	53.01	38.47	14.01	60.71	100	360	P	V
802.11a		11400	55.2	-18.8	74	63.08	38.56	14.15	60.59	100	357	P	H
CH 140	!	11400	53.33	-0.67	54	61.21	38.56	14.15	60.59	100	357	A	H
5700MHz		11400	44.35	-29.65	74	52.23	38.56	14.15	60.59	100	39	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz	*	5494	96.61	-	-	92.65	31.95	8.39	36.38	320	334	P	H
	*	5496	89.65	-	-	85.69	31.95	8.39	36.38	320	334	A	H
		5465.36	52.33	-21.67	74	48.4	31.95	8.38	36.4	320	334	P	H
		5470	40.82	-13.18	54	36.89	31.95	8.38	36.4	320	334	A	H
	*	5496	95.85	-	-	91.89	31.95	8.39	36.38	100	344	P	V
	*	5494	88.77	-	-	84.81	31.95	8.39	36.38	100	344	A	V
		5469.36	49.69	-24.31	74	45.76	31.95	8.38	36.4	100	344	P	V
		5470	40.5	-13.5	54	36.57	31.95	8.38	36.4	100	344	A	V
802.11n HT20 CH 116 5580MHz	*	5586	96.05	-	-	91.83	31.98	8.47	36.23	320	334	P	H
	*	5584	88.79	-	-	84.57	31.98	8.47	36.23	320	334	A	H
	*	5586	95.96	-	-	91.74	31.98	8.47	36.23	100	345	P	V
	*	5576	87.97	-	-	83.79	31.98	8.45	36.25	100	345	A	V
802.11n HT20 CH 140 5700MHz	*	5694	96.37	-	-	92.06	32.02	8.54	36.25	334	334	P	H
	*	5696	88.76	-	-	84.45	32.02	8.54	36.25	334	334	A	H
		5725.32	57.45	-16.55	74	53.12	32.04	8.57	36.28	334	334	P	H
		5725.08	45.27	-8.73	54	40.94	32.04	8.57	36.28	334	334	A	H
	*	5694	95.33	-	-	91.02	32.02	8.54	36.25	100	334	P	V
	*	5694	87.75	-	-	83.44	32.02	8.54	36.25	100	334	A	V
		5725.32	55.24	-18.76	74	50.91	32.04	8.57	36.28	100	334	P	V
		5725	44.79	-9.21	54	40.46	32.04	8.57	36.28	100	334	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	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		11001	47.89	-26.11	74	56.37	38.4	13.91	60.79	100	30	P	H
		11001	54.93	-19.07	74	63.41	38.4	13.91	60.79	100	12	P	V
	!	11001	51.64	-2.36	54	60.12	38.4	13.91	60.79	100	12	A	V
802.11n HT20 CH 116 5580MHz		11160	44.66	-29.34	74	52.89	38.47	14.01	60.71	100	360	P	H
		11160	53.05	-20.95	74	61.28	38.47	14.01	60.71	100	7	P	V
	!	11160	49.95	-4.05	54	58.18	38.47	14.01	60.71	100	7	A	V
802.11n HT20 CH 140 5700MHz		11400	45.32	-28.68	74	53.2	38.56	14.15	60.59	106	0	P	H
		11400	52.35	-21.65	74	60.23	38.56	14.15	60.59	108	11	P	V
	!	11400	49.77	-4.23	54	57.65	38.56	14.15	60.59	108	11	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5469.52	62.05	-11.95	74	58.12	31.95	8.38	36.4	400	316	P	H
	!	5470	51.96	-2.04	54	48.03	31.95	8.38	36.4	400	316	A	H
	*	5500	93.65	-	-	89.64	31.96	8.4	36.35	400	316	P	H
	*	5498	86.64	-	-	82.63	31.96	8.4	36.35	400	316	A	H
		5467.92	60.09	-13.91	74	56.16	31.95	8.38	36.4	100	339	P	V
	!	5470	51.17	-2.83	54	47.24	31.95	8.38	36.4	100	339	A	V
	*	5500	92.55	-	-	88.54	31.96	8.4	36.35	100	339	P	V
	*	5498	85.42	-	-	81.41	31.96	8.4	36.35	100	339	A	V
802.11n HT40 CH 110 5550MHz	*	5540	92.72	-	-	88.62	31.97	8.43	36.3	400	325	P	H
	*	5538	85.51	-	-	81.41	31.97	8.43	36.3	400	325	A	H
	*	5558	91.79	-	-	87.66	31.97	8.44	36.28	100	324	P	V
	*	5562	84.76	-	-	80.63	31.97	8.44	36.28	100	324	A	V
802.11n HT40 CH 134 5670MHz	*	5660	91.75	-	-	87.45	32.01	8.52	36.23	300	336	P	H
	*	5660	84.55	-	-	80.25	32.01	8.52	36.23	300	336	A	H
		5727.56	49.49	-24.51	74	45.16	32.04	8.57	36.28	300	336	P	H
		5725.16	40.55	-13.45	54	36.22	32.04	8.57	36.28	300	336	A	H
	*	5682	89.82	-	-	85.51	32.02	8.53	36.24	147	335	P	V
	*	5658	82.53	-	-	78.23	32.01	8.52	36.23	147	335	A	V
		5727.56	49.54	-24.46	74	45.21	32.04	8.57	36.28	147	335	P	V
		5725.8	39.3	-14.7	54	34.97	32.04	8.57	36.28	147	335	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	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		11019	46.03	-27.97	74	54.48	38.41	13.92	60.78	100	0	P	H
		11019	54.11	-19.89	74	62.56	38.41	13.92	60.78	112	14	P	V
	!	11019	50.55	-3.45	54	59	38.41	13.92	60.78	112	14	A	V
802.11n HT40 CH 110 5550MHz		11100	43.97	-30.03	74	52.3	38.44	13.97	60.74	100	248	P	H
		11100	54.28	-19.72	74	62.61	38.44	13.97	60.74	100	13	P	V
	!	11100	51.79	-2.21	54	60.12	38.44	13.97	60.74	100	13	A	V
802.11n HT40 CH 134 5670MHz		11340	43.01	-30.99	74	50.99	38.53	14.11	60.62	100	50	P	H
		11340	52.26	-21.74	74	60.24	38.53	14.11	60.62	100	9	P	V
	!	11340	49.26	-4.74	54	57.24	38.53	14.11	60.62	100	9	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 VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 100 5500MHz		5463.6	55.69	-18.31	74	51.76	31.95	8.38	36.4	360	329	P	H
		5470	45.33	-8.67	54	41.4	31.95	8.38	36.4	360	329	A	H
	*	5496	98.95	-	-	94.99	31.95	8.39	36.38	360	329	P	H
	*	5496	91.96	-	-	88	31.95	8.39	36.38	360	329	A	H
		5469.36	53.42	-20.58	74	49.49	31.95	8.38	36.4	100	329	P	V
		5470	43.16	-10.84	54	39.23	31.95	8.38	36.4	100	329	A	V
	*	5496	95.96	-	-	92	31.95	8.39	36.38	100	329	P	V
	*	5496	89.09	-	-	85.13	31.95	8.39	36.38	100	329	A	V
802.11ac VHT20 CH 116 5580MHz	*	5576	97.41	-	-	93.23	31.98	8.45	36.25	300	326	P	H
	*	5574	90.14	-	-	85.96	31.98	8.45	36.25	300	326	A	H
	*	5574	94.51	-	-	90.33	31.98	8.45	36.25	100	323	P	V
	*	5576	87.39	-	-	83.21	31.98	8.45	36.25	100	323	A	V
802.11ac VHT20 CH 140 5700MHz	*	5696	96.65	-	-	92.34	32.02	8.54	36.25	301	331	P	H
	*	5694	89.21	-	-	84.9	32.02	8.54	36.25	301	331	A	H
		5727	57.78	-16.22	74	53.45	32.04	8.57	36.28	301	331	P	H
		5725	47.89	-6.11	54	43.56	32.04	8.57	36.28	301	331	A	H
	*	5694	94.15	-	-	89.84	32.02	8.54	36.25	100	323	P	V
	*	5696	87.18	-	-	82.87	32.02	8.54	36.25	100	323	A	V
		5725.24	55.11	-18.89	74	50.78	32.04	8.57	36.28	100	323	P	V
		5725	46.51	-7.49	54	42.18	32.04	8.57	36.28	100	323	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 VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 100 5500MHz		11001	45.92	-28.08	74	54.4	38.4	13.91	60.79	100	360	P	H
		11001	54.85	-19.15	74	63.33	38.4	13.91	60.79	100	0	P	V
	!	11001	50.77	-3.23	54	59.25	38.4	13.91	60.79	100	18	A	V
802.11ac VHT20 CH 116 5580MHz		11160	45.06	-28.94	74	53.29	38.47	14.01	60.71	100	360	P	H
		11160	54.12	-19.88	74	62.35	38.47	14.01	60.71	104	18	P	V
	!	11160	50.39	-3.61	54	58.62	38.47	14.01	60.71	104	18	A	V
802.11ac VHT20 CH 140 5700MHz		11400	43.16	-30.84	74	51.04	38.56	14.15	60.59	100	360	P	H
		11400	53.39	-20.61	74	61.27	38.56	14.15	60.59	100	24	P	V
	!	11400	49.88	-4.12	54	57.76	38.56	14.15	60.59	100	24	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 VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 102 5510MHz	*	5524	95.25	-	-	91.2	31.96	8.42	36.33	305	328	P	H
	*	5518	88.25	-	-	84.2	31.96	8.42	36.33	305	328	A	H
		5460	55.19	-18.81	74	51.3	31.94	8.37	36.42	305	328	P	H
		5460	46.58	-7.42	54	42.69	31.94	8.37	36.42	305	328	A	H
	*	5524	92.48	-	-	88.43	31.96	8.42	36.33	228	42	P	V
	*	5518	85.52	-	-	81.47	31.96	8.42	36.33	228	42	A	V
		5456.08	55.52	-18.48	74	51.63	31.94	8.37	36.42	228	42	P	V
		5460	45.39	-8.61	54	41.5	31.94	8.37	36.42	228	42	A	V
802.11ac VHT40 CH 110 5550MHz	*	5546	93.85	-	-	89.75	31.97	8.43	36.3	300	327	P	H
	*	5540	86.76	-	-	82.66	31.97	8.43	36.3	300	327	A	H
	*	5538	90.81	-	-	86.71	31.97	8.43	36.3	100	325	P	V
	*	5548	83.55	-	-	79.42	31.97	8.44	36.28	100	325	A	V
802.11ac VHT40 CH 134 5670MHz	*	5668	94.29	-	-	89.98	32.02	8.53	36.24	301	327	P	H
	*	5660	86.28	-	-	81.98	32.01	8.52	36.23	301	327	A	H
		5726.12	50.41	-17.89	68.3	46.08	32.04	8.57	36.28	301	327	P	H
		5726.44	41.94	-12.06	54	37.61	32.04	8.57	36.28	301	327	A	H
	*	5682	90.96	-	-	86.65	32.02	8.53	36.24	100	332	P	V
	*	5682	83.56	-	-	79.25	32.02	8.53	36.24	100	332	A	V
		5726.04	48.75	-25.25	74	44.42	32.04	8.57	36.28	100	332	P	V
		5726.04	40.92	-13.08	54	36.59	32.04	8.57	36.28	100	332	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 VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 102 5510MHz		11019	44.45	-29.55	74	52.9	38.41	13.92	60.78	100	360	P	H
		11019	52.78	-21.22	74	61.23	38.41	13.92	60.78	100	24	P	V
	!	11019	50.78	-3.22	54	59.23	38.41	13.92	60.78	100	24	A	V
802.11ac VHT40 CH 110 5550MHz		11100	46.95	-27.05	74	55.28	38.44	13.97	60.74	100	360	P	H
		11100	55.16	-18.84	74	63.49	38.44	13.97	60.74	106	21	P	V
	!	11100	52.21	-1.79	54	60.54	38.44	13.97	60.74	106	21	A	V
802.11ac VHT40 CH 134 5670MHz		11340	43.58	-30.42	74	51.56	38.53	14.11	60.62	100	0	P	H
		11340	52	-22	74	59.98	38.53	14.11	60.62	100	12	P	V
	!	11340	49.1	-4.9	54	57.08	38.53	14.11	60.62	100	12	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5460.24	60.09	-13.91	74	56.2	31.94	8.37	36.42	336	321	P	H
	!	5459.76	50.81	-3.19	54	46.92	31.94	8.37	36.42	336	321	A	H
	*	5512	91.79	-	-	87.78	31.96	8.4	36.35	336	321	P	H
	*	5524	84.2	-	-	80.15	31.96	8.42	36.33	336	321	A	H
		5754.92	46.37	-27.63	74	42.03	32.05	8.59	36.3	336	321	P	H
		5733.8	38.82	-15.18	54	34.49	32.04	8.57	36.28	336	321	A	H
	*	5534	81.57	-	-	77.47	31.97	8.43	36.3	317	34	P	V
	*	5534	75.23	-	-	71.13	31.97	8.43	36.3	317	34	A	V
		5467.76	50.5	-23.5	74	46.57	31.95	8.38	36.4	317	34	P	V
		5467.12	44.22	-9.78	54	40.29	31.95	8.38	36.4	317	34	A	V
		5763.88	47.38	-26.62	74	43.04	32.05	8.59	36.3	317	34	P	V
		5730.04	38.45	-15.55	54	34.12	32.04	8.57	36.28	317	34	A	V
802.11ac VHT80 CH 122 5610MHz		5376.72	45.47	-28.53	74	41.75	31.91	8.31	36.5	347	333	P	H
		5458	38.66	-15.34	54	34.77	31.94	8.37	36.42	347	333	A	H
	*	5590	89.41	-	-	85.19	31.98	8.47	36.23	347	333	P	H
	*	5586	82.46	-	-	78.24	31.98	8.47	36.23	347	333	A	H
		5738.04	46.46	-27.54	74	42.12	32.05	8.58	36.29	347	333	P	H
		5745.64	38.77	-15.23	54	34.43	32.05	8.58	36.29	347	333	A	H
		5458.64	46.39	-27.61	74	42.5	31.94	8.37	36.42	100	319	P	V
		5466.16	38.37	-15.63	54	34.44	31.95	8.38	36.4	100	319	A	V
	*	5584	86.09	-	-	81.87	31.98	8.47	36.23	100	319	P	V
	*	5592	78.76	-	-	74.54	31.98	8.47	36.23	100	319	A	V
		5736.76	47.03	-26.97	74	42.69	32.05	8.58	36.29	100	319	P	V
		5740.76	38.59	-15.41	54	34.25	32.05	8.58	36.29	100	319	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11061	46.52	-27.48	74	54.9	38.43	13.95	60.76	100	0	P	H
		11061	53.95	-20.05	74	62.33	38.43	13.95	60.76	106	20	P	V
	!	11061	51.28	-2.72	54	59.66	38.43	13.95	60.76	106	20	A	V
802.11ac VHT80 CH 122 5610MHz		11220	44.78	-29.22	74	52.93	38.49	14.04	60.68	100	0	P	H
		11220	52.85	-21.15	74	61	38.49	14.04	60.68	105	24	P	V
	!	11220	50.53	-3.47	54	58.68	38.49	14.04	60.68	105	24	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5716	94.29	-	-	89.98	32.03	8.55	36.27	387	0	P	H
	*	5716	86.85	-	-	82.54	32.03	8.55	36.27	387	0	A	H
	*	5726	97.49	-	-	93.16	32.04	8.57	36.28	317	31	P	V
	*	5716	89.49	-	-	85.18	32.03	8.55	36.27	317	31	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a		11439	54.64	-19.36	74	62.47	38.57	14.17	60.57	109	353	P	H
CH 144	!	11439	51.83	-2.17	54	59.66	38.57	14.17	60.57	109	353	A	H
5720MHz		11439	44.45	-29.55	74	52.28	38.57	14.17	60.57	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n	*	5724	96	-	-	91.67	32.04	8.57	36.28	334	327	P	H
HT20	*	5716	88.51	-	-	84.2	32.03	8.55	36.27	334	327	A	H
CH 144	*	5716	93.27	-	-	88.96	32.03	8.55	36.27	118	328	P	V
5720MHz	*	5716	85.68	-	-	81.37	32.03	8.55	36.27	118	328	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11439	44.28	-29.72	74	52.11	38.57	14.17	60.57	100	0	P	H
		11439	50.65	-23.35	74	58.48	38.57	14.17	60.57	100	12	P	V
	!	11439	48.38	-5.62	54	56.21	38.57	14.17	60.57	100	12	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n	*	5700	92.74	-	-	88.43	32.02	8.54	36.25	306	331	P	H
HT40	*	5700	85.57	-	-	81.26	32.02	8.54	36.25	306	331	A	H
CH 142	*	5714	89.82	-	-	85.51	32.03	8.55	36.27	110	331	P	V
5710MHz	*	5700	82.34	-	-	78.03	32.02	8.54	36.25	110	331	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11421	45.56	-28.44	74	53.41	38.57	14.16	60.58	100	0	P	H
HT40		11421	50.15	-23.85	74	58	38.57	14.16	60.58	100	360	P	V
CH 142 5710MHz		11421	47.96	-6.04	54	55.81	38.57	14.16	60.58	100	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 VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5728	97.21	-	-	92.88	32.04	8.57	36.28	306	331	P	H
VHT20	*	5716	89.86	-	-	85.55	32.03	8.55	36.27	306	331	A	H
CH 144	*	5716	93.51	-	-	89.2	32.03	8.55	36.27	100	331	P	V
5720MHz	*	5714	86.07	-	-	81.76	32.03	8.55	36.27	100	331	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11439	44.71	-29.29	74	52.54	38.57	14.17	60.57	100	0	P	H
VHT20		11439	49.82	-24.18	74	57.65	38.57	14.17	60.57	100	25	P	V
CH 144 5720MHz	!	11439	48.38	-5.62	54	56.21	38.57	14.17	60.57	100	25	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5708	93.74	-	-	89.43	32.03	8.55	36.27	360	330	P	H
VHT40	*	5698	85.26	-	-	80.95	32.02	8.54	36.25	360	330	A	H
CH 142	*	5698	89.74	-	-	85.43	32.02	8.54	36.25	100	330	P	V
5710MHz	*	5698	82.54	-	-	78.23	32.02	8.54	36.25	100	330	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11421	43.67	-30.33	74	51.52	38.57	14.16	60.58	100	0	P	H
VHT40		11421	50.94	-23.06	74	58.79	38.57	14.16	60.58	100	26	P	V
CH 142 5710MHz	!	11421	48.01	-5.99	54	55.86	38.57	14.16	60.58	100	26	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5684	91.43	-	-	87.12	32.02	8.54	36.25	360	330	P	H
VHT80	*	5666	83.32	-	-	79.02	32.01	8.52	36.23	360	330	A	H
CH 138	*	5694	87.99	-	-	83.68	32.02	8.54	36.25	100	330	P	V
5690MHz	*	5682	80.37	-	-	76.06	32.02	8.53	36.24	100	330	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11379	43.47	-30.53	74	51.38	38.55	14.14	60.6	100	0	P	H
VHT80		11379	50.76	-23.24	74	58.67	38.55	14.14	60.6	100	30	P	V
CH 138 5690MHz		11379	47.48	-6.52	54	55.39	38.55	14.14	60.6	100	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ac VHT40 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac vHT40 LF		30	17.73	-22.27	40	31.09	18.6	0.65	32.61	100	214	P	H
		119.24	15.88	-27.62	43.5	33.56	13.37	1.31	32.36	-	-	P	H
		252.13	18.09	-27.91	46	35.51	13.27	1.75	32.44	-	-	P	H
		288.02	20.42	-25.58	46	36.08	14.5	2.04	32.2	-	-	P	H
		323.91	19.65	-26.35	46	34.35	15.33	2.21	32.24	-	-	P	H
		644.01	20.73	-25.27	46	29.96	19.23	3.19	31.65	-	-	P	H
		45.52	23.32	-16.68	40	42.87	12.22	0.83	32.6	-	-	P	V
		58.13	24.62	-15.38	40	49.13	7.12	0.91	32.54	100	267	P	V
		288.02	22.96	-23.04	46	38.62	14.5	2.04	32.2	-	-	P	V
		305.48	23.76	-22.24	46	38.91	15	2.15	32.3	-	-	P	V
		323.91	26.25	-19.75	46	40.95	15.33	2.21	32.24	-	-	P	V
		969.93	24.27	-29.73	54	28.01	23.68	4.03	31.45	-	-	P	V
Remark		1. No other spurious found. 2. All results are PASS against 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)

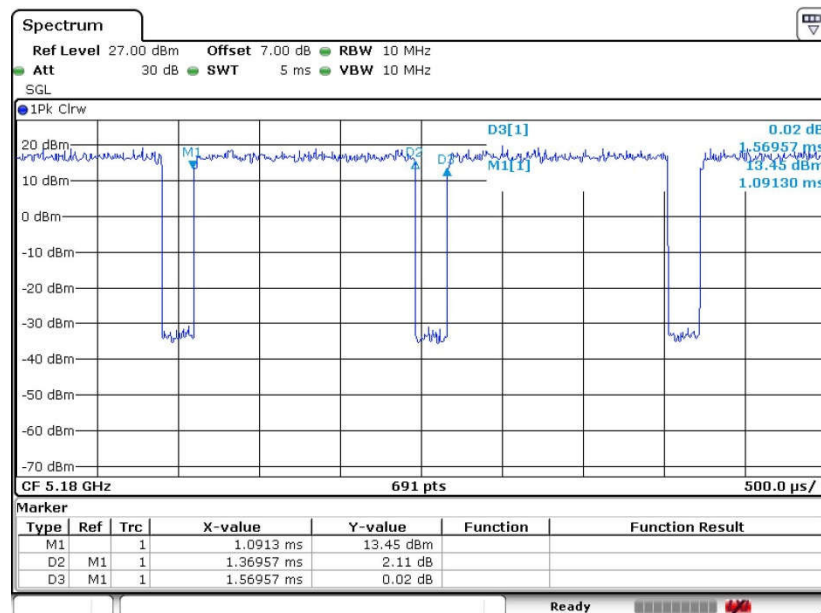
= -10.46(dB)

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

Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	87.26	1.37	0.73	1kHz
802.11n HT20	86.94	1.27	0.78	1kHz
802.11n HT40	75.86	0.64	1.57	3kHz
802.11ac VHT20	82.92	0.97	1.03	3kHz
802.11ac VHT40	71.34	0.49	2.02	3kHz
802.11ac VHT80	55.34	0.25	4.04	10kHz

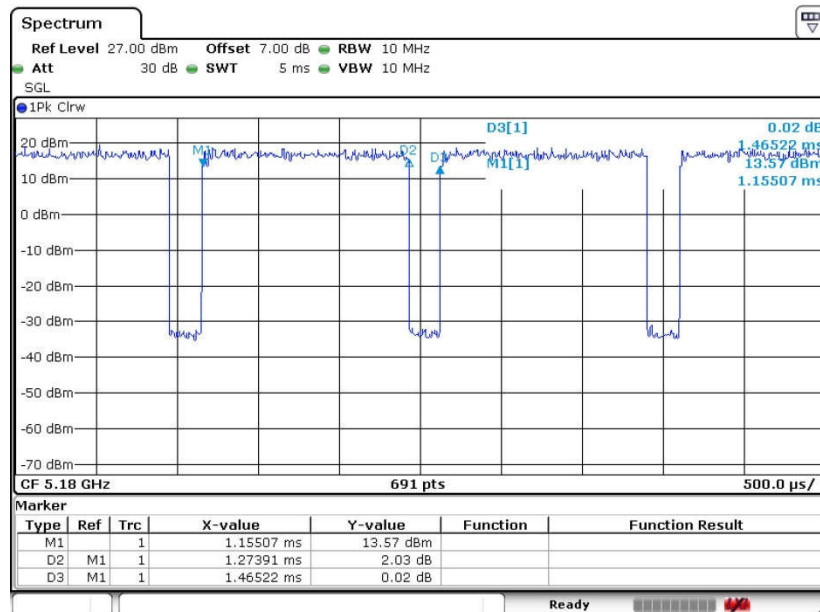
802.11a



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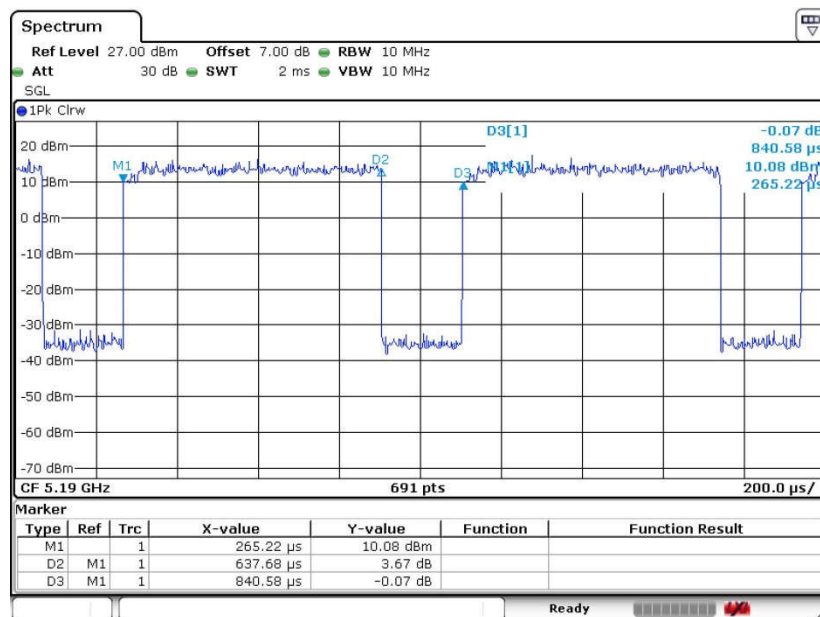


802.11n HT20



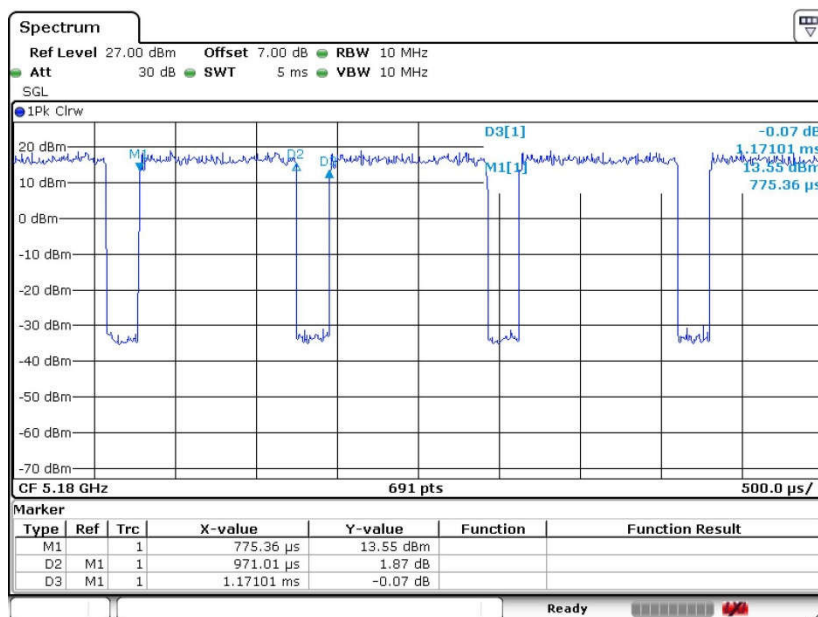
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802.11n HT40



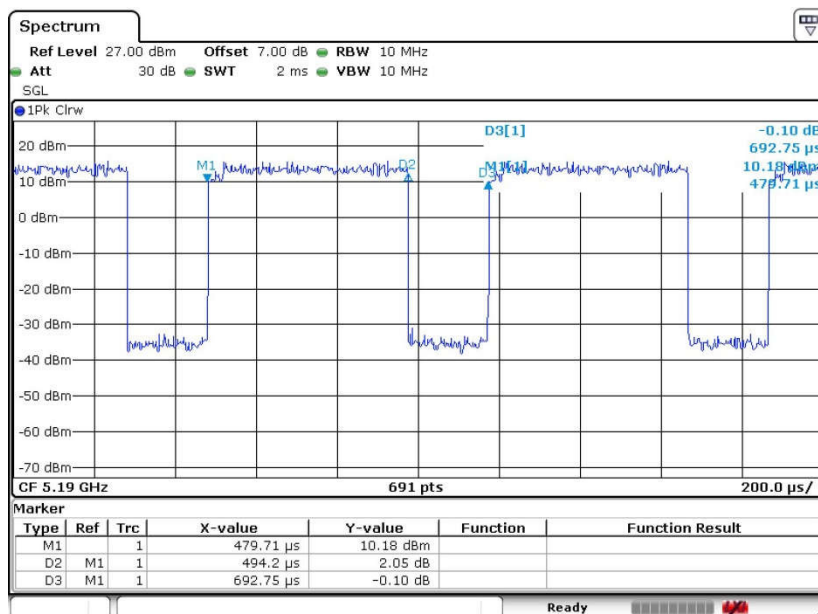
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802.11ac VHT20



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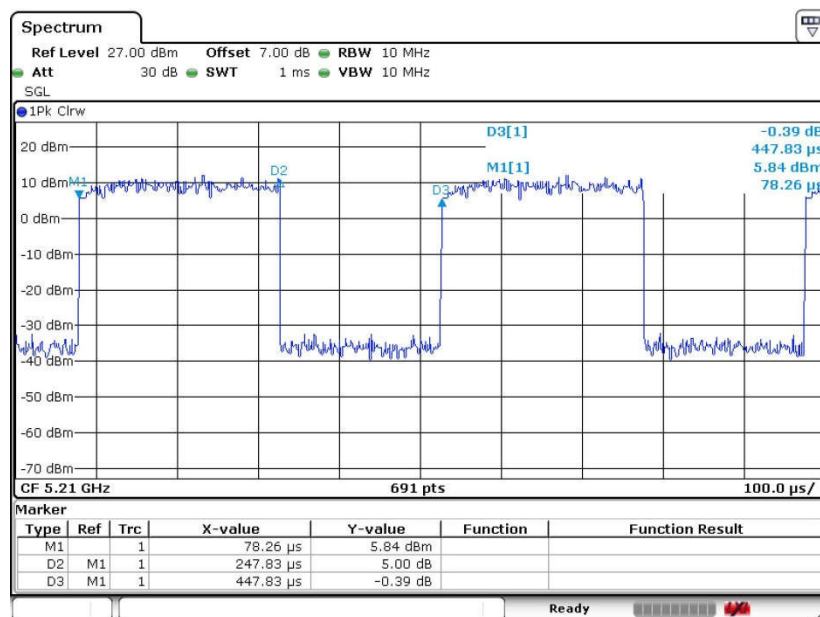
802.11ac VHT40



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802.11ac VHT80



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