



FCC RF Test Report

APPLICANT : vivo Mobile Communication Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : vivo
MODEL NAME : V2203, V2204
FCC ID : 2AUCY-V2203
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Jul. 04, 2022 ~ Jul. 12, 2022

We, Sporton International Inc. (Shenzhen), 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 Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR260913D	Rev. 01	Initial issue of report	Jul. 22, 2022



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Report only	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 4.23 dB at 5453.680 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.67 dB at 0.530 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	Pass	-

Remark: Not required means after assessing, test items are not necessary to carry out.

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan,Guangdong,China

1.2 Manufacturer

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan,Guangdong,China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	vivo
Model Name	V2203, V2204
FCC ID	2AUCY-V2203
IMEI Code	Conducted: 867315060002148 Conduction: 867315060002247/867315060002254 Radiation: 867315060002049
HW Version	MP_0.1
SW Version	PD2216CF_EX_A_12.0.1.38.W30.V00L1
EUT Stage	Production Unit

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 ~ 5720 MHz
Maximum Output Power to Antenna	<p><5180 MHz ~ 5240 MHz> 802.11a : 14.77 dBm / 0.0300 W 802.11n HT20 : 13.42 dBm / 0.0220 W 802.11n HT40 : 13.56 dBm / 0.0227 W 802.11ac VHT20 : 13.40 dBm / 0.0219 W 802.11ac VHT40 : 13.53 dBm / 0.0225 W 802.11ac VHT80 : 13.47 dBm / 0.0222 W</p> <p><5260 MHz ~ 5320 MHz> 802.11a : 14.79 dBm / 0.0301 W 802.11n HT20 : 13.51 dBm / 0.0224 W 802.11n HT40 : 13.55 dBm / 0.0226 W 802.11ac VHT20 : 13.48 dBm / 0.0223 W 802.11ac VHT40 : 13.52 dBm / 0.0225 W 802.11ac VHT80 : 13.46 dBm / 0.0222 W</p> <p><5500 MHz ~ 5720 MHz > 802.11a : 13.87 dBm / 0.0244 W 802.11n HT20 : 14.61 dBm / 0.0289 W 802.11n HT40 : 14.35 dBm / 0.0272 W 802.11ac VHT20 : 14.56 dBm / 0.0286 W 802.11ac VHT40 : 14.26 dBm / 0.0267 W 802.11ac VHT80 : 14.73 dBm / 0.0297 W</p>
99% Occupied Bandwidth	<p><5180 MHz ~ 5240 MHz> 802.11a : 16.73 MHz 802.11n HT20 : 17.78 MHz 802.11n HT40 : 36.66 MHz 802.11ac VHT80 : 75.16 MHz</p> <p><5260 MHz ~ 5320 MHz> 802.11a : 16.83 MHz 802.11n HT20 : 17.73 MHz 802.11n HT40 : 36.56 MHz 802.11ac VHT80 : 75.16 MHz</p> <p><5500 MHz ~ 5720 MHz > 802.11a : 16.73 MHz 802.11n HT20 : 17.83 MHz 802.11n HT40 : 36.76 MHz 802.11ac VHT80 : 75.16 MHz</p>
Antenna Type / Gain	<p><5180 MHz ~ 5240 MHz> PIFA Antenna with gain -1.92 dBi</p> <p><5260 MHz ~ 5320 MHz> PIFA Antenna with gain -1.92 dBi</p> <p><5500 MHz ~ 5720 MHz> PIFA Antenna with gain -1.92 dBi</p>
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

Note:

- Note: For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11n HT20/HT40 by referring to their maximum conducted power.



1.5 Modification of EUT

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

1.6 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b



1.8 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ 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

- a. 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: conduction emission (150 kHz to 30 MHz), radiation 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 (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5180-5240 MHz 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 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- 5720 MHz MHz 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)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710		

Note:

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



2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + WLAN(5G)Link + USB Cable 1(Charging from Adapter 1) + Battery1+ Earphone

Simultaneous transmission
802.11ac VHT80 CH106 (5530MHz)Tx + LTEB41 Link

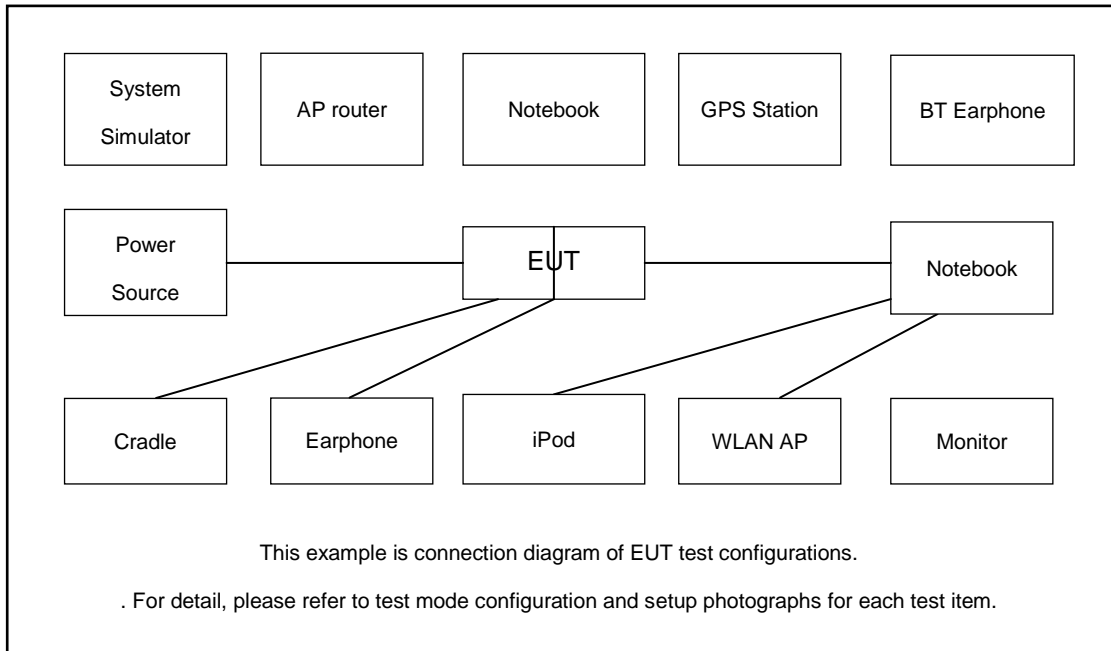
Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		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		-	-	144

Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

2.3 Connection Diagram of Test System





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station(LTE)	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Earphone	apple	DCAY1V-A900FZJW 3-000	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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

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

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor 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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 2.8 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 2.8 + 10 = 12.8 \text{ (dB)}
 \end{aligned}$$

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, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

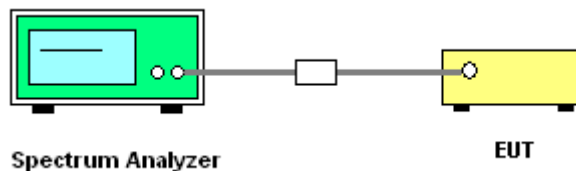
3.1.2 Measuring Instruments

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 v02r01. 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 1% to 5% of the OBW and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

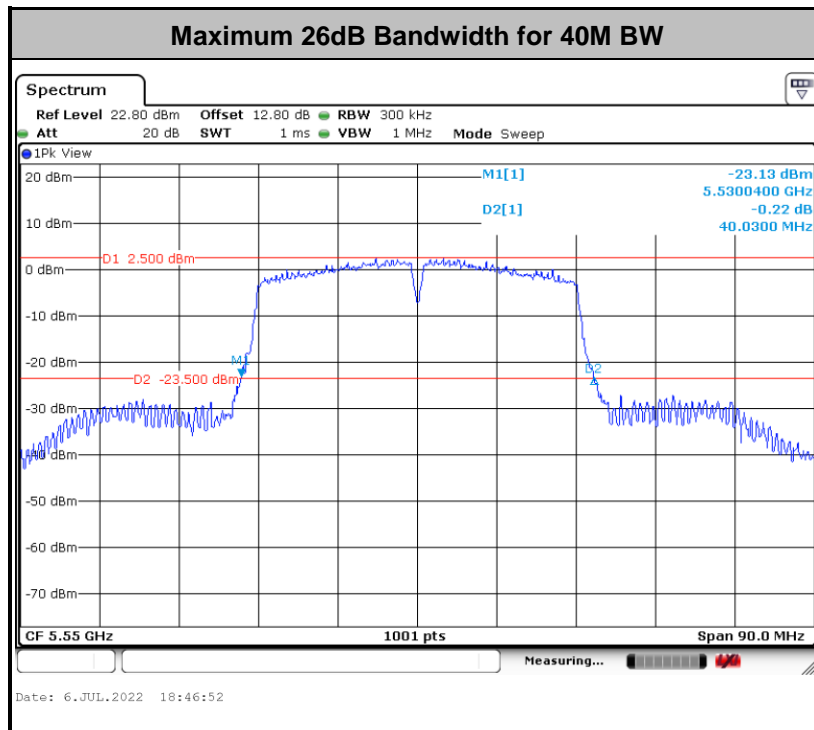
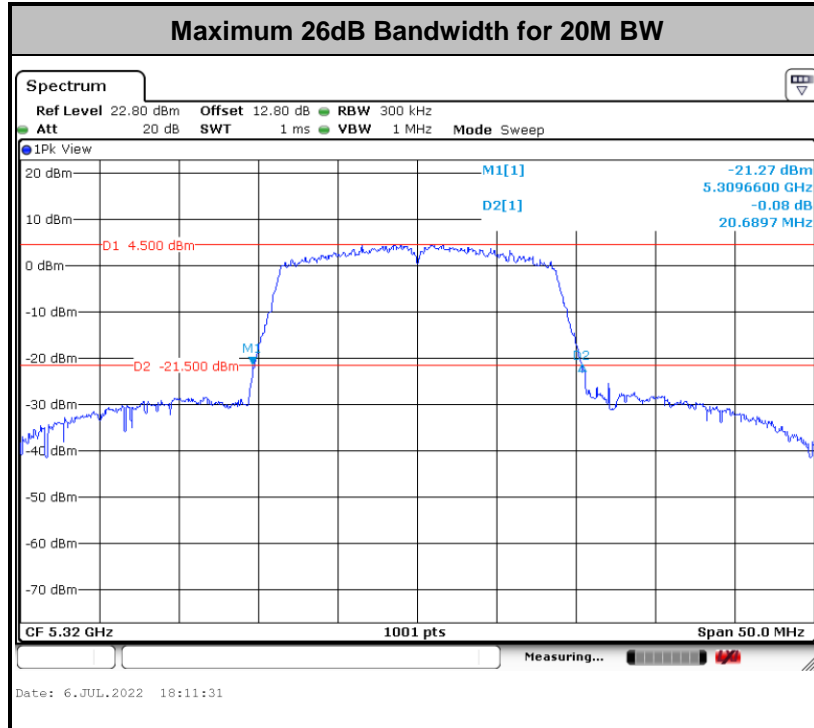
3.1.4 Test Setup

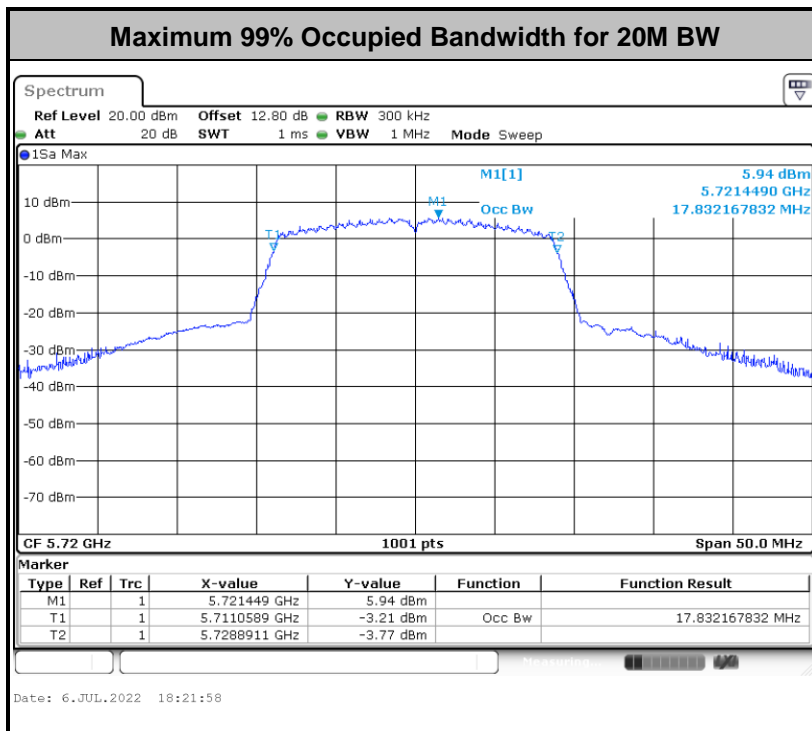
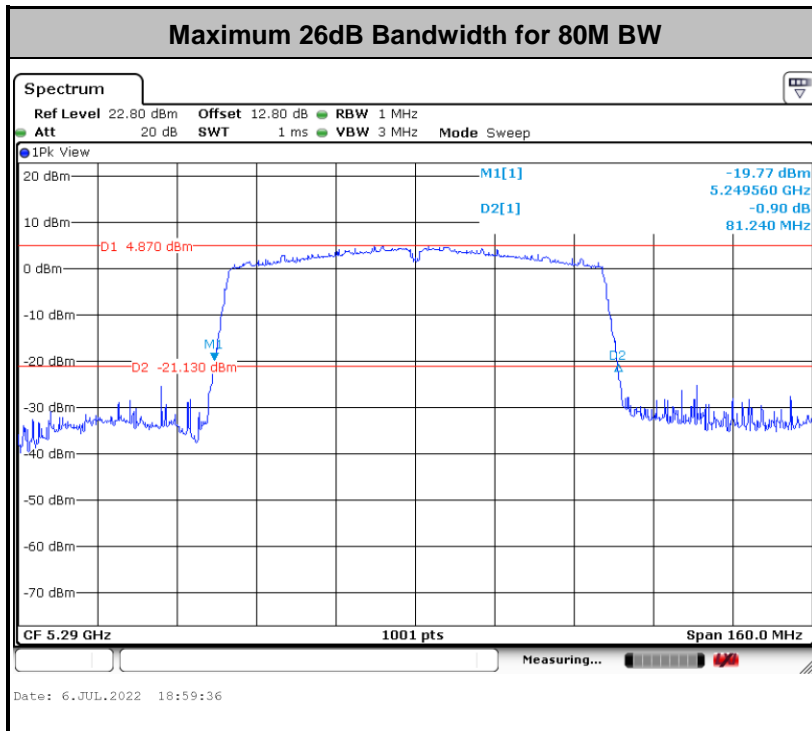


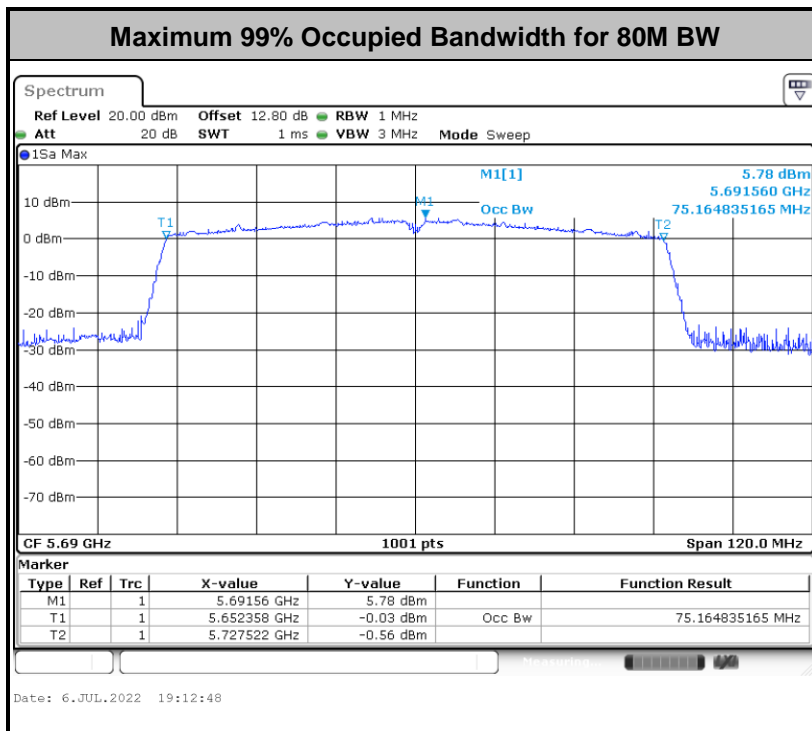
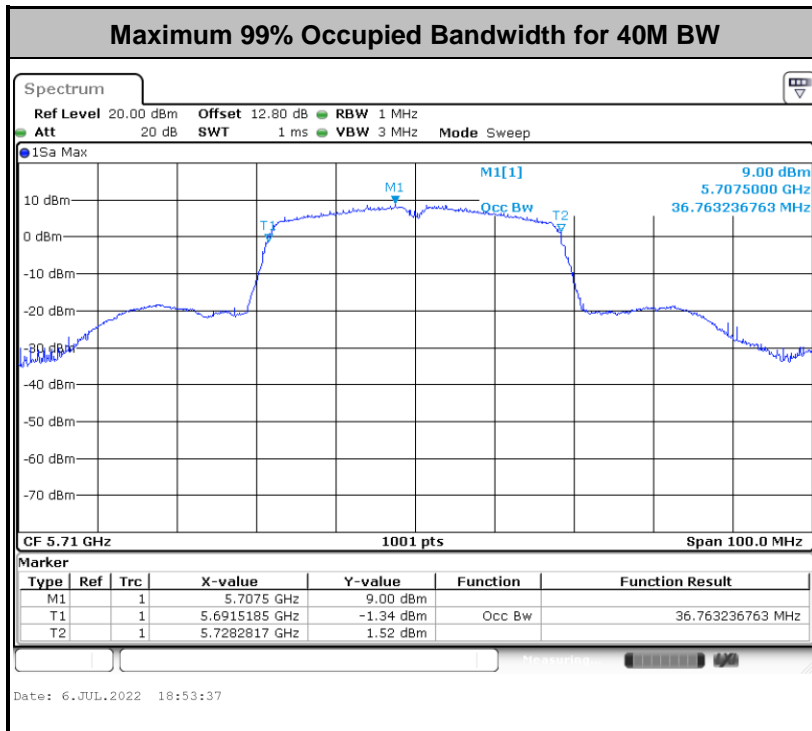


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.







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



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

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

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

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

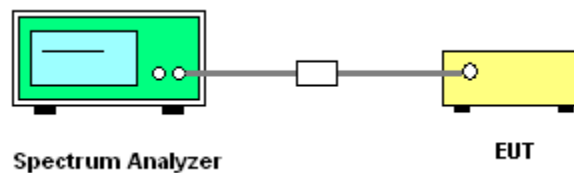
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

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

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

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

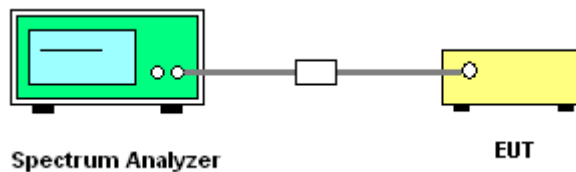
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

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

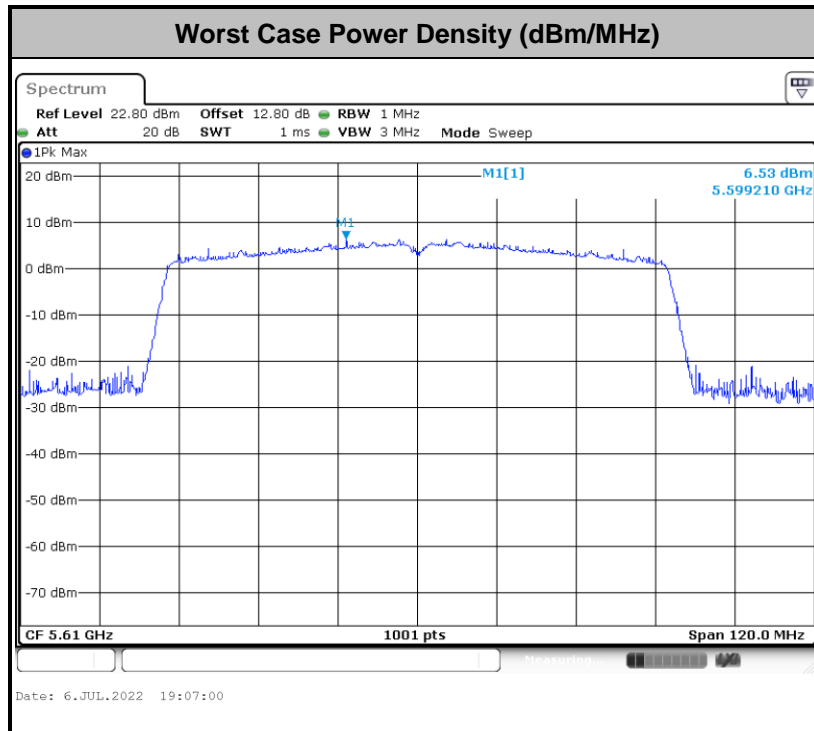
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, 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.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. 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 Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

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 5470-5725 MHz band: all emissions outside of the 5470-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits 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



EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

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

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

(3) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.4.2 Measuring Instruments

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

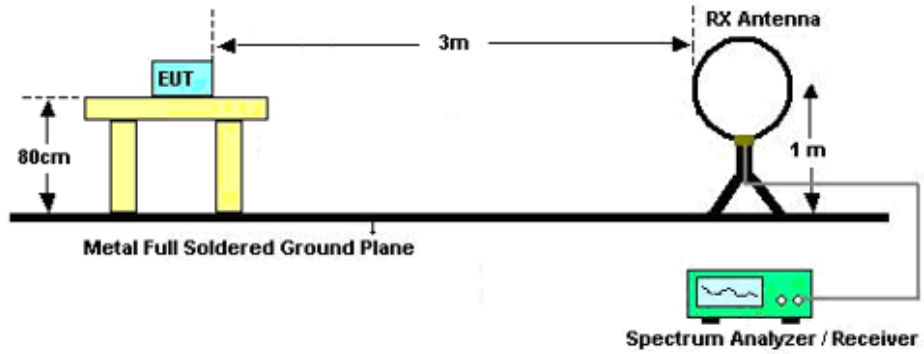


3.4.3 Test Procedures

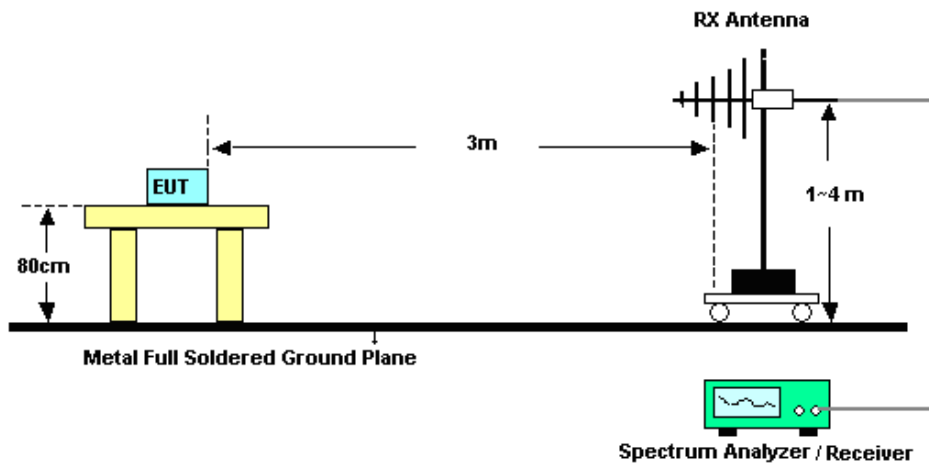
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak 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 peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

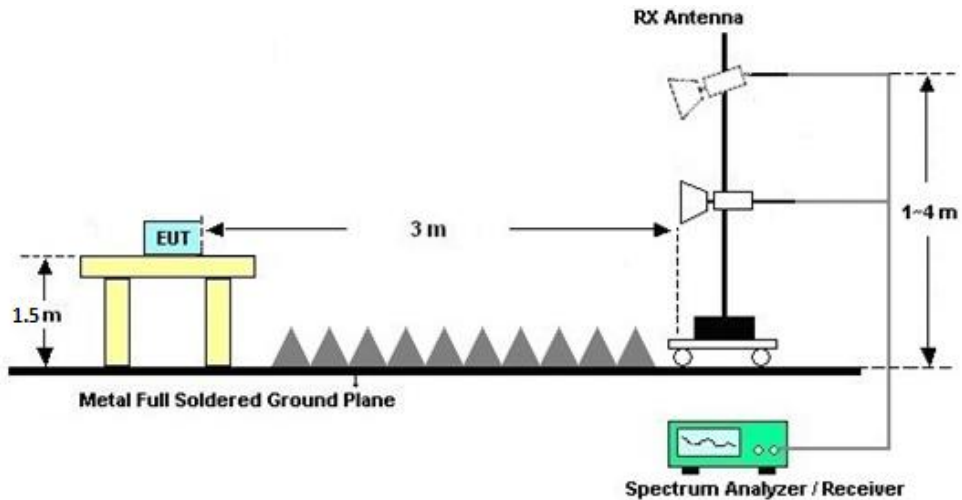
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.



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 (dBµV)	
	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

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Jul. 06, 2022	Apr. 08, 2023	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 28, 2021	Jul. 06, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 28, 2021	Jul. 06, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Jul. 06, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 14, 2021	Jul. 12, 2022	Jul. 13, 2022	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 22, 2021	Jul. 12, 2022	Jul. 21, 2022	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Sep. 28, 2021	Jul. 12, 2022	Sep. 27, 2022	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 18, 2021	Jul. 12, 2022	Jul. 18, 2022	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 13, 2021	Jul. 12, 2022	Jul. 13, 2022	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 10, 2022	Jul. 12, 2022	Apr. 10, 2023	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 22, 2021	Jul. 12, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Jul. 12, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 22, 2021	Jul. 12, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Jul. 12, 2022	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jul. 12, 2022	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jul. 12, 2022	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Sep. 01, 2021	Jul. 04, 2022	Aug. 31, 2022	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 01, 2021	Jul. 04, 2022	Aug. 31, 2022	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 29, 2021	Jul. 04, 2022	Oct. 28, 2022	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 14, 2021	Jul. 04, 2022	Jul. 13, 2022	Conduction (CO01-SZ)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %
Conducted Power Spectral Density	±1.32 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.2 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

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



Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ma Jie	Temperature:	21~25	°C
Test Date:	2022/7/6	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I						
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
11a	6Mbps	1	36	5180	16.68	20.19
11a	6Mbps	1	44	5220	16.68	20.19
11a	6Mbps	1	48	5240	16.73	20.24
HT20	MCS0	1	36	5180	17.73	20.39
HT20	MCS0	1	44	5220	17.78	20.49
HT20	MCS0	1	48	5240	17.78	20.44
HT40	MCS0	1	38	5190	36.66	40.03
HT40	MCS0	1	46	5230	36.56	39.94
VHT80	MCS0	1	42	5210	75.16	81.12

TEST RESULTS DATA
Average Power Table

FCC Band I									
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail
11a	6Mbps	1	36	5180	0.14	14.59	24.00	-1.92	Pass
11a	6Mbps	1	44	5220	0.14	14.77	24.00	-1.92	Pass
11a	6Mbps	1	48	5240	0.14	14.55	24.00	-1.92	Pass
HT20	MCS0	1	36	5180	0.15	13.42	24.00	-1.92	Pass
HT20	MCS0	1	44	5220	0.15	13.40	24.00	-1.92	Pass
HT20	MCS0	1	48	5240	0.15	13.41	24.00	-1.92	Pass
HT40	MCS0	1	38	5190	0.28	13.52	24.00	-1.92	Pass
HT40	MCS0	1	46	5230	0.28	13.56	24.00	-1.92	Pass
VHT20	MCS0	1	36	5180	0.14	13.40	24.00	-1.92	Pass
VHT20	MCS0	1	44	5220	0.14	13.39	24.00	-1.92	Pass
VHT20	MCS0	1	48	5240	0.14	13.38	24.00	-1.92	Pass
VHT40	MCS0	1	38	5190	0.28	13.49	24.00	-1.92	Pass
VHT40	MCS0	1	46	5230	0.28	13.53	24.00	-1.92	Pass
VHT80	MCS0	1	42	5210	0.56	13.47	24.00	-1.92	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I									
Mod.	Data Rate	N _{TX}	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	0.14	6.59	11.00	-1.92	Pass
11a	6Mbps	1	44	5220	0.14	6.60	11.00	-1.92	Pass
11a	6Mbps	1	48	5240	0.14	6.46	11.00	-1.92	Pass
HT20	MCS0	1	36	5180	0.15	5.88	11.00	-1.92	Pass
HT20	MCS0	1	44	5220	0.15	5.60	11.00	-1.92	Pass
HT20	MCS0	1	48	5240	0.15	5.45	11.00	-1.92	Pass
HT40	MCS0	1	38	5190	0.28	3.30	11.00	-1.92	Pass
HT40	MCS0	1	46	5230	0.28	2.59	11.00	-1.92	Pass
VHT80	MCS0	1	42	5210	0.56	5.99	11.00	-1.92	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II							
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	FCC 26dB Bandwidth Power Limit (dBm)
11a	6M bps	1	52	5260	16.73	20.54	23.98
11a	6M bps	1	60	5300	16.83	20.14	23.98
11a	6M bps	1	64	5320	16.73	20.19	23.98
HT20	MCS 0	1	52	5260	17.73	20.59	23.98
HT20	MCS 0	1	60	5300	17.73	20.54	23.98
HT20	MCS 0	1	64	5320	17.68	20.69	23.98
HT40	MCS 0	1	54	5270	36.56	39.76	23.98
HT40	MCS 0	1	62	5310	36.56	39.67	23.98
VHT80	MCS 0	1	58	5290	75.16	81.24	23.98

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	0.14	14.72	23.98	-1.92	26.99	Pass
11a	6M bps	1	60	5300	0.14	14.74	23.98	-1.92	26.99	Pass
11a	6M bps	1	64	5320	0.14	14.79	23.98	-1.92	26.99	Pass
HT20	MCS 0	1	52	5260	0.15	13.51	23.98	-1.92	26.99	Pass
HT20	MCS 0	1	60	5300	0.15	13.49	23.98	-1.92	26.99	Pass
HT20	MCS 0	1	64	5320	0.15	13.38	23.98	-1.92	26.99	Pass
HT40	MCS 0	1	54	5270	0.28	13.53	23.98	-1.92	26.99	Pass
HT40	MCS 0	1	62	5310	0.28	13.55	23.98	-1.92	26.99	Pass
VHT20	MCS 0	1	52	5260	0.14	13.48	23.98	-1.92	26.99	Pass
VHT20	MCS 0	1	60	5300	0.14	13.47	23.98	-1.92	26.99	Pass
VHT20	MCS 0	1	64	5320	0.14	13.36	23.98	-1.92	26.99	Pass
VHT40	MCS 0	1	54	5270	0.28	13.51	23.98	-1.92	26.99	Pass
VHT40	MCS 0	1	62	5310	0.28	13.52	23.98	-1.92	26.99	Pass
VHT80	MCS 0	1	58	5290	0.56	13.46	23.98	-1.92	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II									
Mod.	Data Rate	N _{TX}	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	0.14	7.08	11.00	-1.92	Pass
11a	6M bps	1	60	5300	0.14	7.02	11.00	-1.92	Pass
11a	6M bps	1	64	5320	0.14	6.93	11.00	-1.92	Pass
HT20	MCS 0	1	52	5260	0.15	5.51	11.00	-1.92	Pass
HT20	MCS 0	1	60	5300	0.15	5.36	11.00	-1.92	Pass
HT20	MCS 0	1	64	5320	0.15	5.69	11.00	-1.92	Pass
HT40	MCS 0	1	54	5270	0.28	2.64	11.00	-1.92	Pass
HT40	MCS 0	1	62	5310	0.28	2.84	11.00	-1.92	Pass
VHT80	MCS 0	1	58	5290	0.56	7.02	11.00	-1.92	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	100	5500	16.68	20.24	23.98	
11a	6M bps	1	116	5580	16.68	20.04	23.98	
11a	6M bps	1	140	5700	16.73	20.14	23.98	
11a	6Mbps	1	144	5720	16.73	20.09	23.98	
HT20	MCS 0	1	100	5500	17.78	20.44	23.98	
HT20	MCS 0	1	116	5580	17.78	20.44	23.98	
HT20	MCS 0	1	140	5700	17.83	20.44	23.98	
HT20	MCS0	1	144	5720	17.83	20.59	23.98	
HT40	MCS 0	1	102	5510	36.66	39.85	23.98	
HT40	MCS 0	1	110	5550	36.66	40.03	23.98	
HT40	MCS 0	1	134	5670	36.76	39.85	23.98	
HT40	MCS0	1	142	5710	36.76	39.85	23.98	
VHT80	MCS 0	1	106	5530	75.16	80.96	23.98	
VHT80	MCS 0	1	122	5610	75.16	81.08	23.98	
VHT80	MCS0	1	138	5690	75.16	81.08	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band III										
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	0.14	13.08	23.98	-1.92	26.99	Pass
11a	6M bps	1	116	5580	0.14	13.74	23.98	-1.92	26.99	Pass
11a	6M bps	1	140	5700	0.14	13.55	23.98	-1.92	26.99	Pass
11a	6M bps	1	144	5720	0.14	13.87	23.98	-1.92	26.99	Pass
HT20	MCS 0	1	100	5500	0.15	14.02	23.98	-1.92	26.99	Pass
HT20	MCS 0	1	116	5580	0.15	14.61	23.98	-1.92	26.99	Pass
HT20	MCS 0	1	140	5700	0.15	14.58	23.98	-1.92	26.99	Pass
HT20	MCS 0	1	144	5720	0.15	14.61	23.98	-1.92	26.99	Pass
HT40	MCS 0	1	102	5510	0.28	14.05	23.98	-1.92	26.99	Pass
HT40	MCS 0	1	110	5550	0.28	14.02	23.98	-1.92	26.99	Pass
HT40	MCS 0	1	134	5670	0.28	14.35	23.98	-1.92	26.99	Pass
HT40	MCS 0	1	142	5710	0.28	14.33	23.98	-1.92	26.99	Pass
VHT20	MCS 0	1	100	5500	0.14	14.01	23.98	-1.92	26.99	Pass
VHT20	MCS 0	1	116	5580	0.14	14.56	23.98	-1.92	26.99	Pass
VHT20	MCS 0	1	140	5700	0.14	14.52	23.98	-1.92	26.99	Pass
VHT20	MCS 0	1	144	5720	0.14	14.56	23.98	-1.92	26.99	Pass
VHT40	MCS 0	1	102	5510	0.28	14.01	23.98	-1.92	26.99	Pass
VHT40	MCS 0	1	110	5550	0.28	14.00	23.98	-1.92	26.99	Pass
VHT40	MCS 0	1	134	5670	0.28	14.26	23.98	-1.92	26.99	Pass
VHT40	MCS 0	1	142	5710	0.28	14.24	23.98	-1.92	26.99	Pass
VHT80	MCS 0	1	106	5530	0.56	14.10	23.98	-1.92	26.99	Pass
VHT80	MCS 0	1	122	5610	0.56	14.73	23.98	-1.92	26.99	Pass
VHT80	MCS 0	1	138	5690	0.56	14.64	23.98	-1.92	26.99	Pass

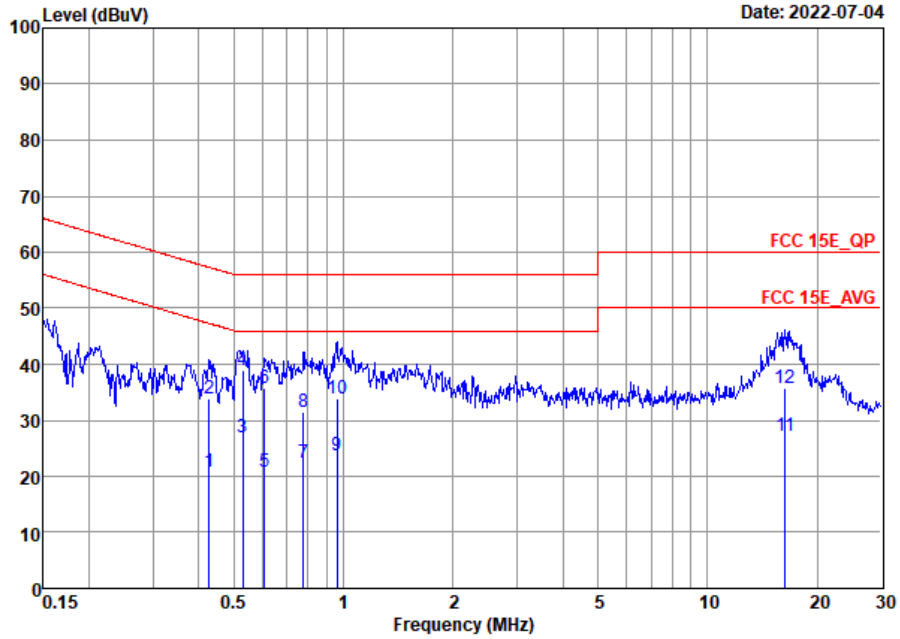
TEST RESULTS DATA
Power Spectral Density

Band III									
Mod.	Data Rate	N _{TX}	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	0.14	4.89	11.00	-1.92	Pass
11a	6M bps	1	116	5580	0.14	5.71	11.00	-1.92	Pass
11a	6M bps	1	140	5700	0.14	5.53	11.00	-1.92	Pass
11a	6Mbps	1	144	5720	0.14	5.43	11.00	-1.92	Pass
HT20	MCS 0	1	100	5500	0.15	5.72	11.00	-1.92	Pass
HT20	MCS 0	1	116	5580	0.15	6.15	11.00	-1.92	Pass
HT20	MCS 0	1	140	5700	0.15	5.90	11.00	-1.92	Pass
HT20	MCS0	1	144	5720	0.15	6.19	11.00	-1.92	Pass
HT40	MCS 0	1	102	5510	0.28	3.09	11.00	-1.92	Pass
HT40	MCS 0	1	110	5550	0.28	3.30	11.00	-1.92	Pass
HT40	MCS 0	1	134	5670	0.28	3.26	11.00	-1.92	Pass
HT40	MCS0	1	142	5710	0.28	3.80	11.00	-1.92	Pass
VHT80	MCS 0	1	106	5530	0.56	6.36	11.00	-1.92	Pass
VHT80	MCS 0	1	122	5610	0.56	7.09	11.00	-1.92	Pass
VHT80	MCS0	1	138	5690	0.56	6.86	11.00	-1.92	Pass



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Lily	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

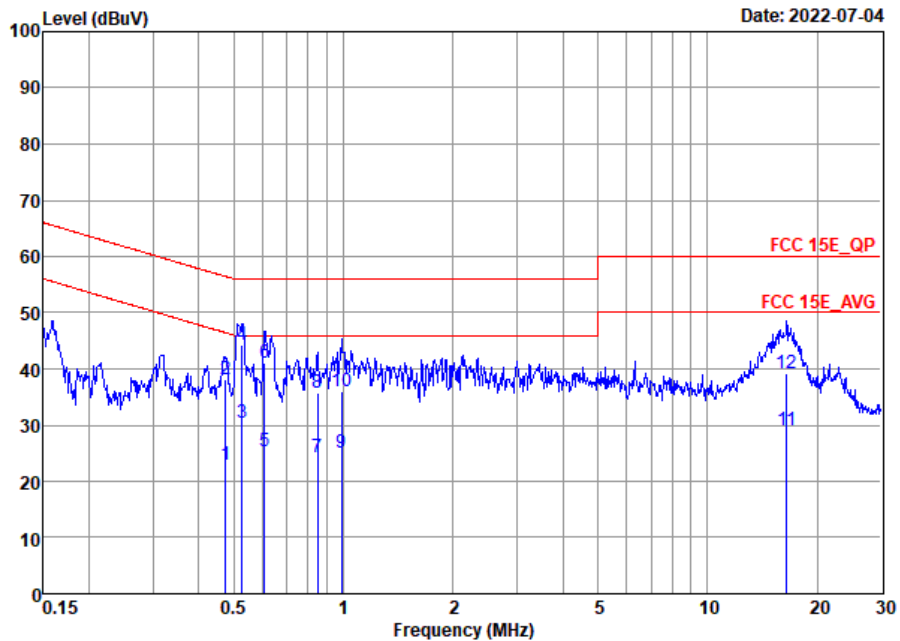


Site : CO01-SZ
 Condition: FCC 15E QP LISN 20210901 L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.43	20.68	-26.61	47.29	-1.00	10.11	11.57	Average
2	0.43	33.88	-23.41	57.29	12.20	10.11	11.57	QP
3	0.53	26.84	-19.16	46.00	5.00	10.11	11.73	Average
4 *	0.53	38.84	-17.16	56.00	17.00	10.11	11.73	QP
5	0.61	20.71	-25.29	46.00	-0.80	10.10	11.41	Average
6	0.61	35.61	-20.39	56.00	14.10	10.10	11.41	QP
7	0.78	22.36	-23.64	46.00	1.40	10.12	10.84	Average
8	0.78	31.36	-24.64	56.00	10.40	10.12	10.84	QP
9	0.96	23.76	-22.24	46.00	3.30	10.12	10.34	Average
10	0.96	33.96	-22.04	56.00	13.50	10.12	10.34	QP
11	16.31	27.32	-22.68	50.00	7.10	9.87	10.35	Average
12	16.31	35.82	-24.18	60.00	15.60	9.87	10.35	QP



Test Engineer :	Lily	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition: FCC 15E_QP LISN_20210901_N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.47	23.06	-23.39	46.45	1.10	10.19	11.77	Average
2	0.47	38.06	-18.39	56.45	16.10	10.19	11.77	QP
3	0.53	30.53	-15.47	46.00	8.59	10.21	11.73	Average
4 *	0.53	44.33	-11.67	56.00	22.39	10.21	11.73	QP
5	0.61	25.44	-20.56	46.00	3.79	10.24	11.41	Average
6	0.61	41.14	-14.86	56.00	19.49	10.24	11.41	QP
7	0.85	24.25	-21.75	46.00	3.40	10.22	10.63	Average
8	0.85	35.85	-20.15	56.00	15.00	10.22	10.63	QP
9	0.99	24.99	-21.01	46.00	4.50	10.22	10.27	Average
10	0.99	36.09	-19.91	56.00	15.60	10.22	10.27	QP
11	16.49	29.18	-20.82	50.00	9.00	9.83	10.35	Average
12	16.49	39.18	-20.82	60.00	19.00	9.83	10.35	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Band 1 - 5150~5250MHz WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5128.7	53.6	-20.4	74	40.17	33.97	10.06	30.6	102	261	P	H
		5147.42	45.01	-8.99	54	31.6	34	10.06	30.65	102	261	A	H
	*	5180	106.31	-	-	92.91	34	10.09	30.69	102	261	P	H
		5180	99.29	-	-	85.89	34	10.09	30.69	102	261	A	H
		5148.98	52.81	-21.19	74	39.4	34	10.06	30.65	100	139	P	V
		5149.5	43.84	-10.16	54	30.43	34	10.06	30.65	100	139	A	V
	*	5180	102.59	-	-	89.19	34	10.09	30.69	100	139	P	V
		5180	95.52	-	-	82.12	34	10.09	30.69	100	139	A	V
802.11a CH 44 5220MHz		5149.24	53.1	-20.9	74	39.69	34	10.06	30.65	100	240	P	H
		5143	44.49	-9.51	54	31.03	34	10.06	30.6	100	240	A	H
	*	5220	106.36	-	-	92.93	34.03	10.13	30.73	100	240	P	H
		5220	99.36	-	-	85.93	34.03	10.13	30.73	100	240	A	H
		5413.68	51.74	-22.26	74	37.73	34.2	10.34	30.53	100	240	P	H
		5350.32	42.98	-11.02	54	29	34.2	10.3	30.52	100	240	A	H
		5056.68	53.13	-20.87	74	39.94	33.83	9.99	30.63	114	154	P	V
		5145.34	43.38	-10.62	54	29.97	34	10.06	30.65	114	154	A	V
	*	5220	102.22	-	-	88.79	34.03	10.13	30.73	114	154	P	V
		5220	95.24	-	-	81.81	34.03	10.13	30.73	114	154	A	V
		5417.52	50.24	-23.76	74	36.23	34.2	10.34	30.53	114	154	P	V
		5452.08	42.28	-11.72	54	28.26	34.2	10.38	30.56	114	154	A	V



802.11a CH 48 5240MHz		5071.5	52.48	-21.52	74	39.21	33.87	9.99	30.59	101	240	P	H
		5144.56	43.97	-10.03	54	30.56	34	10.06	30.65	101	240	A	H
	*	5240	105.6	-	-	92.03	34.07	10.17	30.67	101	240	P	H
		5240	98.67	-	-	85.1	34.07	10.17	30.67	101	240	A	H
		5409.36	51.29	-22.71	74	37.28	34.2	10.34	30.53	101	240	P	H
		5355.12	42.83	-11.17	54	28.85	34.2	10.3	30.52	101	240	A	H
		5094.12	52.26	-21.74	74	38.9	33.9	10.02	30.56	100	153	P	V
		5126.62	43.3	-10.7	54	29.87	33.97	10.06	30.6	100	153	A	V
	*	5240	101.36	-	-	87.79	34.07	10.17	30.67	100	153	P	V
		5240	94.33	-	-	80.76	34.07	10.17	30.67	100	153	A	V
		5445.36	51.17	-22.83	74	37.14	34.2	10.38	30.55	100	153	P	V
		5428.8	42.39	-11.61	54	28.36	34.2	10.38	30.55	100	153	A	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10360	45.06	-23.24	68.3	56.63	37.22	11.56	60.35	-	-	P	H
		15540	50.21	-23.79	74	53.91	40.13	14.74	58.57	-	-	P	H
		10360	44.75	-23.55	68.3	56.32	37.22	11.56	60.35	-	-	P	V
		15540	50.23	-23.77	74	53.93	40.13	14.74	58.57	-	-	P	V
802.11a CH 44 5220MHz		10440	46.05	-22.25	68.3	57.55	37.26	11.61	60.37	-	-	P	H
		15660	50.42	-23.58	74	54.23	40.22	14.78	58.81	-	-	P	H
		10440	44.78	-23.52	68.3	56.28	37.26	11.61	60.37	-	-	P	V
		15660	50.7	-23.3	74	54.51	40.22	14.78	58.81	-	-	P	V
802.11a CH 48 5240MHz		10480	45.97	-22.33	68.3	57.46	37.29	11.61	60.39	-	-	P	H
		15720	50.38	-23.62	74	54.31	40.28	14.74	58.95	-	-	P	H
		10480	46.49	-21.81	68.3	57.98	37.29	11.61	60.39	-	-	P	V
		15720	50.71	-23.29	74	54.64	40.28	14.74	58.95	-	-	P	V



Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.
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**Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5148.46	51.32	-22.68	74	40.58	34	9.34	32.6	100	236	P	H
		5146.64	42.78	-11.22	54	32.04	34	9.34	32.6	100	236	A	H
	*	5180	102.05	-	-	91.28	34	9.4	32.63	100	236	P	H
		5180	95.08	-	-	84.31	34	9.4	32.63	100	236	A	H
		5093.34	50.36	-23.64	74	39.74	33.9	9.25	32.53	101	149	P	V
		5145.6	41.1	-12.9	54	30.36	34	9.34	32.6	101	149	A	V
	*	5180	95.33	-	-	84.56	34	9.4	32.63	101	149	P	V
		5180	88.28	-	-	77.51	34	9.4	32.63	101	149	A	V
802.11n HT20 CH 44 5220MHz		5066.04	50.92	-23.08	74	40.44	33.83	9.19	32.54	106	234	P	H
		5141.44	41.81	-12.19	54	31.03	34	9.34	32.56	106	234	A	H
	*	5220	102.83	-	-	91.98	34.03	9.49	32.67	106	234	P	H
		5220	95.84	-	-	84.99	34.03	9.49	32.67	106	234	A	H
		5437.2	48.21	-25.79	74	36.85	34.2	9.87	32.71	106	234	P	H
		5393.04	40.03	-13.97	54	28.64	34.2	9.81	32.62	106	234	A	H
		5137.28	49.54	-24.46	74	38.82	33.97	9.31	32.56	100	155	P	V
		5143.78	40.68	-13.32	54	29.94	34	9.34	32.6	100	155	A	V
	*	5220	96.06	-	-	85.21	34.03	9.49	32.67	100	155	P	V
		5220	89.06	-	-	78.21	34.03	9.49	32.67	100	155	A	V
	5440.56	47.75	-26.25	74	36.39	34.2	9.87	32.71	100	155	P	V	
	5447.04	39.67	-14.33	54	28.28	34.2	9.9	32.71	100	155	A	V	



802.11n HT20 CH 48 5240MHz		5149.76	50.57	-23.43	74	39.83	34	9.34	32.6	100	234	P	H
		5122.46	41.48	-12.52	54	30.83	33.93	9.28	32.56	100	234	A	H
	*	5240	102.66	-	-	91.71	34.07	9.54	32.66	100	234	P	H
		5240	95.7	-	-	84.75	34.07	9.54	32.66	100	234	A	H
		5438.16	48.85	-25.15	74	37.49	34.2	9.87	32.71	100	234	P	H
		5351.04	40.55	-13.45	54	29.17	34.2	9.8	32.62	100	234	A	H
		5089.96	49.55	-24.45	74	38.93	33.9	9.25	32.53	100	149	P	V
		5098.8	40.72	-13.28	54	30.1	33.9	9.25	32.53	100	149	A	V
	*	5240	97.51	-	-	86.56	34.07	9.54	32.66	100	149	P	V
		5240	90.52	-	-	79.57	34.07	9.54	32.66	100	149	A	V
		5406.48	47.91	-26.09	74	36.51	34.2	9.82	32.62	100	149	P	V
		5452.8	39.8	-14.2	54	28.5	34.2	9.9	32.8	100	149	A	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		10480	45.97	-22.33	68.3	57.46	37.29	11.61	60.39	-	-	P	H
HT20		15720	50.38	-23.62	74	54.31	40.28	14.74	58.95	-	-	P	H
CH 36		10480	46.49	-21.81	68.3	57.98	37.29	11.61	60.39	-	-	P	V
5180MHz		15720	50.71	-23.29	74	54.64	40.28	14.74	58.95	-	-	P	V
802.11n		10440	45.75	-22.55	68.3	57.25	37.26	11.61	60.37	-	-	P	H
HT20		15660	50.21	-23.79	74	54.02	40.22	14.78	58.81	-	-	P	H
CH 44		10440	45.36	-22.94	68.3	56.86	37.26	11.61	60.37	-	-	P	V
5220MHz		15660	50.74	-23.26	74	54.55	40.22	14.78	58.81	-	-	P	V
802.11n		10480	45.95	-22.35	68.3	57.44	37.29	11.61	60.39	-	-	P	H
HT20		15720	50.72	-23.28	74	54.65	40.28	14.74	58.95	-	-	P	H
CH 48		10480	45.56	-22.74	68.3	57.05	37.29	11.61	60.39	-	-	P	V
5240MHz		15720	50.9	-23.1	74	54.83	40.28	14.74	58.95	-	-	P	V



Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.
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**Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5149.24	61.97	-12.03	74	51.23	34	9.34	32.6	100	224	P	H
		5150	47.48	-6.52	54	36.74	34	9.34	32.6	100	224	A	H
	*	5190	100.53	-	-	89.76	34	9.4	32.63	100	224	P	H
		5190	93.54	-	-	82.77	34	9.4	32.63	100	224	A	H
		5390.56	48.7	-25.3	74	37.31	34.2	9.81	32.62	100	224	P	H
		5350.24	40.54	-13.46	54	29.16	34.2	9.8	32.62	100	224	A	H
		5101.14	49.86	-24.14	74	39.24	33.9	9.25	32.53	100	161	P	V
		5150	44.16	-9.84	54	33.42	34	9.34	32.6	100	161	A	V
	*	5190	94.73	-	-	83.96	34	9.4	32.63	100	161	P	V
		5190	87.74	-	-	76.97	34	9.4	32.63	100	161	A	V
		5441.24	48.17	-25.83	74	36.81	34.2	9.87	32.71	100	161	P	V
		5388.88	40.51	-13.49	54	29.12	34.2	9.81	32.62	100	161	A	V
802.11n HT40 CH 46 5230MHz		5138.58	49.42	-24.58	74	38.7	33.97	9.31	32.56	100	250	P	H
		5134.68	42.24	-11.76	54	31.52	33.97	9.31	32.56	100	250	A	H
	*	5230	100.12	-	-	89.17	34.07	9.54	32.66	100	250	P	H
		5230	92.4	-	-	81.45	34.07	9.54	32.66	100	250	A	H
		5442	49.18	-24.82	74	37.82	34.2	9.87	32.71	100	250	P	H
		5361.6	41.03	-12.97	54	29.65	34.2	9.8	32.62	100	250	A	H
		5080.6	49.14	-24.86	74	38.58	33.87	9.22	32.53	101	134	P	V
		5142.74	41.84	-12.16	54	31.06	34	9.34	32.56	101	134	A	V
	*	5230	95.73	-	-	84.78	34.07	9.54	32.66	101	134	P	V
		5230	86.81	-	-	75.86	34.07	9.54	32.66	101	134	A	V
	5380.56	47.47	-26.53	74	36.08	34.2	9.81	32.62	101	134	P	V	
	5440.08	40.55	-13.45	54	29.19	34.2	9.87	32.71	101	134	A	V	



Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>
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Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path 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	44.59	-23.71	68.3	56.12	37.23	11.59	60.35	-	-	P	H
		15570	50.52	-23.48	74	54.21	40.16	14.79	58.64	-	-	P	H
		10380	46.06	-22.24	68.3	57.59	37.23	11.59	60.35	-	-	P	V
		15570	50.19	-23.81	74	53.88	40.16	14.79	58.64	-	-	P	V
802.11n HT40 CH 46 5230MHz		10460	45.64	-22.66	68.3	57.14	37.27	11.61	60.38	-	-	P	H
		15690	50.23	-23.77	74	54.12	40.25	14.74	58.88	-	-	P	H
		10460	46.15	-22.15	68.3	57.65	37.27	11.61	60.38	-	-	P	V
		15690	50.81	-23.19	74	54.7	40.25	14.74	58.88	-	-	P	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												

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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5142.22	55.53	-18.47	74	44.75	34	9.34	32.56	100	239	P	H
		5143	48.89	-5.11	54	38.11	34	9.34	32.56	100	239	A	H
	*	5210	97.16	-	-	86.31	34.03	9.49	32.67	100	239	P	H
		5210	88.67	-	-	77.82	34.03	9.49	32.67	100	239	A	H
		5378.88	49.54	-24.46	74	38.15	34.2	9.81	32.62	100	239	P	H
		5355.84	43	-11	54	31.62	34.2	9.8	32.62	100	239	A	H
		5146.12	51.2	-22.8	74	40.46	34	9.34	32.6	101	134	P	V
		5147.68	46.41	-7.59	54	35.67	34	9.34	32.6	101	134	A	V
	*	5210	91.97	-	-	81.12	34.03	9.49	32.67	101	134	P	V
	5210	84.35	-	-	73.5	34.03	9.49	32.67	101	134	A	V	



		5405.52	48.25	-25.75	74	36.85	34.2	9.82	32.62	101	134	P	V
		5354.64	41.86	-12.14	54	30.48	34.2	9.8	32.62	101	134	A	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												

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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	45.74	-22.56	68.3	57.25	37.25	11.61	60.37	-	-	P	H
		15630	50.8	-23.2	74	54.57	40.21	14.8	58.78	-	-	P	H
		10420	46.34	-21.96	68.3	57.85	37.25	11.61	60.37	-	-	P	V
		15630	50.8	-23.2	74	54.57	40.21	14.8	58.78	-	-	P	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												

Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5112.32	53.21	-20.79	74	39.82	33.93	10.02	30.56	100	230	P	H
		5132.08	43.7	-10.3	54	30.27	33.97	10.06	30.6	100	230	A	H
	*	5260	106.6	-	-	92.92	34.13	10.17	30.62	100	230	P	H
		5260	99.46	-	-	85.78	34.13	10.17	30.62	100	230	A	H
		5357.52	51.84	-22.16	74	37.86	34.2	10.3	30.52	100	230	P	H
		5350.8	42.99	-11.01	54	29.01	34.2	10.3	30.52	100	230	A	H
		5033.28	53.13	-20.87	74	40.05	33.8	9.95	30.67	119	140	P	V
		5092.56	43.32	-10.68	54	29.99	33.9	10.02	30.59	119	140	A	V
	*	5260	101.24	-	-	87.56	34.13	10.17	30.62	119	140	P	V
		5260	94.15	-	-	80.47	34.13	10.17	30.62	119	140	A	V
		5416.8	52.03	-21.97	74	38.02	34.2	10.34	30.53	119	140	P	V



		5364.72	42.49	-11.51	54	28.51	34.2	10.3	30.52	119	140	A	V
802.11a CH 60 5300MHz		5099.75	53.85	-20.15	74	40.49	33.9	10.02	30.56	100	239	P	H
		5131.25	43.97	-10.03	54	30.54	33.97	10.06	30.6	100	239	A	H
	*	5300	106.97	-	-	93.07	34.2	10.21	30.51	100	239	P	H
		5300	99.88	-	-	85.98	34.2	10.21	30.51	100	239	A	H
		5350.08	53.44	-20.56	74	39.46	34.2	10.3	30.52	100	239	P	H
		5350.08	44.93	-9.07	54	30.95	34.2	10.3	30.52	100	239	A	H
		5082.95	52.1	-21.9	74	38.8	33.87	10.02	30.59	100	144	P	V
		5086.45	43.52	-10.48	54	30.22	33.87	10.02	30.59	100	144	A	V
	*	5300	102.82	-	-	88.92	34.2	10.21	30.51	100	144	P	V
		5300	95.78	-	-	81.88	34.2	10.21	30.51	100	144	A	V
		5397.12	51.41	-22.59	74	37.4	34.2	10.34	30.53	100	144	P	V
		5354.64	42.95	-11.05	54	28.97	34.2	10.3	30.52	100	144	A	V
	02.11a CH 64 5320MHz	*	5320	107	-	-	93.05	34.2	10.26	30.51	100	238	P
		5320	100.06	-	-	86.11	34.2	10.26	30.51	100	238	A	H
		5351.52	58.36	-15.64	74	44.38	34.2	10.3	30.52	100	238	P	H
		5350.24	46.84	-7.16	54	32.86	34.2	10.3	30.52	100	238	A	H
*		5320	101.58	-	-	87.63	34.2	10.26	30.51	100	159	P	V
		5320	94.06	-	-	80.11	34.2	10.26	30.51	100	159	A	V
		5351.36	52.94	-21.06	74	38.96	34.2	10.3	30.52	100	159	P	V
		5350.4	43.67	-10.33	54	29.69	34.2	10.3	30.52	100	159	A	V
Remark	<ol style="list-style-type: none"> 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.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	45.35	-22.95	68.3	56.7	37.32	11.65	60.32	-	-	P	H
		15780	50.54	-23.46	74	54.49	40.32	14.78	59.05	-	-	P	H
		10520	46.23	-22.07	68.3	57.58	37.32	11.65	60.32	-	-	P	V
		15780	50.41	-23.59	74	54.36	40.32	14.78	59.05	-	-	P	V
802.11a CH 60 5300MHz		10600	46.67	-27.33	74	57.33	37.42	11.86	59.94	-	-	P	H
		15900	51.05	-22.95	74	55.06	40.42	14.86	59.29	-	-	P	H
		10600	47.61	-26.39	74	58.27	37.42	11.86	59.94	-	-	P	V
		15900	50.24	-23.76	74	54.25	40.42	14.86	59.29	-	-	P	V
802.11a CH 64 5320MHz		10460	45.35	-22.95	68.3	56.85	37.27	11.61	60.38	-	-	P	H
		15690	50.83	-23.17	74	54.72	40.25	14.74	58.88	-	-	P	H
		10460	44.61	-23.69	68.3	56.11	37.27	11.61	60.38	-	-	P	V
		15690	50.65	-23.35	74	54.54	40.25	14.74	58.88	-	-	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.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5094.38	50.19	-23.81	74	39.57	33.9	9.25	32.53	109	232	P	H
		5095.42	41.11	-12.89	54	30.49	33.9	9.25	32.53	109	232	A	H
	*	5260	103.36	-	-	92.22	34.13	9.66	32.65	109	232	P	H
		5260	96.35	-	-	85.21	34.13	9.66	32.65	109	232	A	H
		5453.04	50	-24	74	38.7	34.2	9.9	32.8	109	232	P	H
		5356.08	40.39	-13.61	54	29.01	34.2	9.8	32.62	109	232	A	H
		5083.46	50.62	-23.38	74	40.06	33.87	9.22	32.53	100	159	P	V
		5109.98	40.7	-13.3	54	30.02	33.93	9.28	32.53	100	159	A	V
	*	5260	97.38	-	-	86.24	34.13	9.66	32.65	100	159	P	V
		5260	90.35	-	-	79.21	34.13	9.66	32.65	100	159	A	V



		5439.36	48.83	-25.17	74	37.47	34.2	9.87	32.71	100	159	P	V
		5373.84	39.91	-14.09	54	28.53	34.2	9.8	32.62	100	159	A	V
802.11n HT20 CH 60 5300MHz		5006.65	49.93	-24.07	74	39.59	33.8	9.09	32.55	104	247	P	H
		5040.25	41.13	-12.87	54	30.71	33.8	9.16	32.54	104	247	A	H
	*	5300	103.26	-	-	91.92	34.2	9.77	32.63	104	247	P	H
		5300	96.33	-	-	84.99	34.2	9.77	32.63	104	247	A	H
		5368.56	48.16	-25.84	74	36.78	34.2	9.8	32.62	104	247	P	H
		5350.32	41.59	-12.41	54	30.21	34.2	9.8	32.62	104	247	A	H
		5050.05	49.37	-24.63	74	38.95	33.8	9.16	32.54	100	140	P	V
		5098.35	40.83	-13.17	54	30.21	33.9	9.25	32.53	100	140	A	V
	*	5300	98.1	-	-	86.76	34.2	9.77	32.63	100	140	P	V
		5300	91.11	-	-	79.77	34.2	9.77	32.63	100	140	A	V
		5375.52	48.64	-25.36	74	37.26	34.2	9.8	32.62	100	140	P	V
		5361.84	40.21	-13.79	54	28.83	34.2	9.8	32.62	100	140	A	V
802.11n HT20 CH 64 5320MHz	*	5320	103.31	-	-	91.96	34.2	9.78	32.63	100	236	P	H
		5320	96.32	-	-	84.97	34.2	9.78	32.63	100	236	A	H
		5359.2	51.59	-22.41	74	40.21	34.2	9.8	32.62	100	236	P	H
		5351.04	42.71	-11.29	54	31.33	34.2	9.8	32.62	100	236	A	H
	*	5320	97.84	-	-	86.49	34.2	9.78	32.63	100	148	P	V
		5320	90.76	-	-	79.41	34.2	9.78	32.63	100	148	A	V
		5373.44	48.54	-25.46	74	37.16	34.2	9.8	32.62	100	148	P	V
	5351.84	40.41	-13.59	54	29.03	34.2	9.8	32.62	100	148	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.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20		10520	45.49	-22.81	68.3	56.84	37.32	11.65	60.32	-	-	P	H
		15780	50.6	-23.4	74	54.55	40.32	14.78	59.05	-	-	P	H
5260MHz CH 52		10520	46.17	-22.13	68.3	57.52	37.32	11.65	60.32	-	-	P	V
		15780	50.26	-23.74	74	54.21	40.32	14.78	59.05	-	-	P	V
5300MHz		10600	46.78	-27.22	74	57.44	37.42	11.86	59.94	-	-	P	H
		15900	49.99	-24.01	74	54	40.42	14.86	59.29	-	-	P	H
		10600	47.2	-26.8	74	57.86	37.42	11.86	59.94	-	-	P	V
		15900	49.32	-24.68	74	53.33	40.42	14.86	59.29	-	-	P	V
5320MHz		10640	46.22	-27.78	74	56.71	37.47	11.83	59.79	-	-	P	H
		15960	49.2	-24.8	74	53.27	40.47	14.89	59.43	-	-	P	H
		10640	45.78	-28.22	74	56.27	37.47	11.83	59.79	-	-	P	V
		15960	48.84	-25.16	74	52.91	40.47	14.89	59.43	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT40		5130.55	50.33	-23.67	74	39.61	33.97	9.31	32.56	101	245	P	H	
		5122.15	41.83	-12.17	54	31.18	33.93	9.28	32.56	101	245	A	H	
	*	5270	100.14	-	-	89	34.13	9.66	32.65	101	245	P	H	
		5270	93.44	-	-	82.3	34.13	9.66	32.65	101	245	A	H	
		5352.48	48.85	-25.15	74	37.47	34.2	9.8	32.62	101	245	P	H	
		5354.64	41.53	-12.47	54	30.15	34.2	9.8	32.62	101	245	A	H	
	5270MHz CH 54		5122.85	49.67	-24.33	74	38.95	33.97	9.31	32.56	100	134	P	V
			5127.05	41.55	-12.45	54	30.83	33.97	9.31	32.56	100	134	A	V
		*	5270	95.07	-	-	83.93	34.13	9.66	32.65	100	134	P	V
			5270	86.44	-	-	75.3	34.13	9.66	32.65	100	134	A	V



		5388.96	47.84	-26.16	74	36.45	34.2	9.81	32.62	100	134	P	V
		5443.92	40.91	-13.09	54	29.55	34.2	9.87	32.71	100	134	A	V
802.11n HT40 CH 62 5310MHz		5119.35	50.24	-23.76	74	39.59	33.93	9.28	32.56	106	237	P	H
		5141.05	41.67	-12.33	54	30.89	34	9.34	32.56	106	237	A	H
	*	5310	99.25	-	-	87.9	34.2	9.78	32.63	106	237	P	H
		5310	91.68	-	-	80.33	34.2	9.78	32.63	106	237	A	H
		5355.84	53.64	-20.36	74	42.26	34.2	9.8	32.62	106	237	P	H
		5350.56	47.14	-6.86	54	35.76	34.2	9.8	32.62	106	237	A	H
		5023.45	49.47	-24.53	74	39.09	33.8	9.12	32.54	100	136	P	V
		5051.8	41.64	-12.36	54	31.22	33.8	9.16	32.54	100	136	A	V
	*	5310	94.54	-	-	83.19	34.2	9.78	32.63	100	136	P	V
		5310	86.71	-	-	75.36	34.2	9.78	32.63	100	136	A	V
		5365.44	55.45	-18.55	74	44.07	34.2	9.8	32.62	100	136	P	V
		5360.88	44.54	-9.46	54	33.16	34.2	9.8	32.62	100	136	A	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	Factor	Loss	Factor	Pos	Pos	Avg.	
							(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		10540	46.2	-22.1	68.3	57.42	37.34	11.69	60.25	-	-	P	H
HT40		15810	50.23	-23.77	74	54.19	40.35	14.81	59.12	-	-	P	H
CH 54		10540	45.72	-22.58	68.3	56.94	37.34	11.69	60.25	-	-	P	V
5270MHz		15810	49.83	-24.17	74	53.79	40.35	14.81	59.12	-	-	P	V
802.11n		10620	46.45	-27.55	74	57.03	37.44	11.85	59.87	-	-	P	H
HT40		15930	50.01	-23.99	74	54.05	40.44	14.88	59.36	-	-	P	H
CH 62		10620	46.03	-27.97	74	56.61	37.44	11.85	59.87	-	-	P	V
5310MHz		15930	49.7	-24.3	74	53.74	40.44	14.88	59.36	-	-	P	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												



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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5127.75	49.35	-24.65	74	38.63	33.97	9.31	32.56	101	238	P	H
		5096.25	43.22	-10.78	54	32.6	33.9	9.25	32.53	101	238	A	H
	*	5290	97.06	-	-	85.82	34.17	9.71	32.64	101	238	P	H
		5290	89.2	-	-	77.96	34.17	9.71	32.64	101	238	A	H
		5359.68	53.01	-20.99	74	41.63	34.2	9.8	32.62	101	238	P	H
		5350.8	48.29	-5.71	54	36.91	34.2	9.8	32.62	101	238	A	H
		5142.8	49.86	-24.14	74	39.08	34	9.34	32.56	100	132	P	V
		5140	42.98	-11.02	54	32.2	34	9.34	32.56	100	132	A	V
	*	5290	91.98	-	-	80.74	34.17	9.71	32.64	100	132	P	V
		5290	84.36	-	-	73.12	34.17	9.71	32.64	100	132	A	V
		5357.28	50.4	-23.6	74	39.02	34.2	9.8	32.62	100	132	P	V
		5357.28	45.58	-8.42	54	34.2	34.2	9.8	32.62	100	132	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.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		10580	46.49	-21.81	68.3	57.29	37.4	11.82	60.02	-	-	P	H
		15870	50.58	-23.42	74	54.59	40.4	14.85	59.26	-	-	P	H
		10580	47.58	-20.72	68.3	58.38	37.4	11.82	60.02	-	-	P	V
		15870	50.03	-23.97	74	54.04	40.4	14.85	59.26	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5439.12	51.06	-22.94	74	39.7	34.2	9.87	32.71	100	264	P	H
		5468.4	56.78	-11.52	68.3	45.46	34.2	9.92	32.8	100	264	P	H
		5458.48	42.3	-11.7	54	31	34.2	9.9	32.8	100	264	A	H
	*	5500	105.43	-	-	94.15	34.2	9.97	32.89	100	264	P	H
		5500	98.39	-	-	87.11	34.2	9.97	32.89	100	264	A	H
		5449.52	50.66	-23.34	74	39.27	34.2	9.9	32.71	108	149	P	V
		5468.08	52.03	-16.27	68.3	40.71	34.2	9.92	32.8	108	149	P	V
		5449.84	40.82	-13.18	54	29.52	34.2	9.9	32.8	108	149	A	V
	*	5500	98.38	-	-	87.1	34.2	9.97	32.89	108	149	P	V
		5500	91.41	-	-	80.13	34.2	9.97	32.89	108	149	A	V
802.11a CH 116 5580MHz		5442.88	49.22	-24.78	74	37.86	34.2	9.87	32.71	100	253	P	H
		5466.64	48.18	-20.12	68.3	36.86	34.2	9.92	32.8	100	253	P	H
		5448.88	40.44	-13.56	54	29.05	34.2	9.9	32.71	100	253	A	H
	*	5580	105.17	-	-	93.46	34.23	10.21	32.73	100	253	P	H
		5580	98.12	-	-	86.41	34.23	10.21	32.73	100	253	A	H
		5730.98	49.66	-18.64	68.3	37.58	34.57	10.44	32.93	100	253	P	H
		5416.96	47.56	-26.44	74	36.14	34.2	9.84	32.62	273	110	P	V
		5465.44	47.75	-20.55	68.3	36.43	34.2	9.92	32.8	273	110	P	V
		5439.04	39.86	-14.14	54	28.5	34.2	9.87	32.71	273	110	A	V
	*	5580	99.51	-	-	87.7	34.27	10.27	32.73	273	110	P	V
		5580	92.6	-	-	80.79	34.27	10.27	32.73	273	110	A	V
	5740.115	49.23	-19.07	68.3	37.07	34.6	10.49	32.93	273	110	P	V	



802.11a CH 140 5700MHz	*	5700	104.53	-	-	92.59	34.5	10.32	32.88	106	267	P	H
		5700	97.55	-	-	85.61	34.5	10.32	32.88	106	267	A	H
		5725.48	54.86	-13.44	68.3	42.75	34.57	10.44	32.9	106	267	P	H
	*	5700	99.66	-	-	87.72	34.5	10.32	32.88	100	137	P	V
		5700	92.71	-	-	80.77	34.5	10.32	32.88	100	137	A	V
		5726.28	52.34	-15.96	68.3	40.23	34.57	10.44	32.9	100	137	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	47.12	-26.88	74	55.41	37.9	12.01	58.2	-	-	P	H
		16500	51.22	-17.08	68.3	51.88	41.57	15.27	57.5	-	-	P	H
		11000	47.24	-26.76	74	55.53	37.9	12.01	58.2	-	-	P	V
		16500	50.83	-17.47	68.3	51.49	41.57	15.27	57.5	-	-	P	V
802.11a CH 116 5580MHz		11160	47.64	-26.36	74	55.59	38.05	12.1	58.1	-	-	P	H
		16740	51.59	-16.71	68.3	51.18	42.07	15.41	57.07	-	-	P	H
		11160	47.72	-26.28	74	55.67	38.05	12.1	58.1	-	-	P	V
		16740	51.59	-16.71	68.3	51.18	42.07	15.41	57.07	-	-	P	V
802.11a CH 140 5700MHz		11400	48.59	-25.41	74	56.09	38.27	12.19	57.96	-	-	P	H
		17100	53.16	-15.14	68.3	51.95	42.46	15.45	56.7	-	-	P	H
		11400	47.42	-26.58	74	54.92	38.27	12.19	57.96	-	-	P	V
		17100	56.13	-12.17	68.3	54.92	42.46	15.45	56.7	-	-	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.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5419.12	50.26	-23.74	74	38.84	34.2	9.84	32.62	103	234	P	H
		5462	50.26	-18.04	68.3	38.96	34.2	9.9	32.8	103	234	P	H
		5460	42.29	-11.71	54	30.99	34.2	9.9	32.8	103	234	A	H
	*	5500	103.06	-	-	91.78	34.2	9.97	32.89	103	234	P	H
		5500	96.05	-	-	84.77	34.2	9.97	32.89	103	234	A	H
		5447.6	48.9	-25.1	74	37.51	34.2	9.9	32.71	100	139	P	V
		5461.84	48.08	-20.22	68.3	36.78	34.2	9.9	32.8	100	139	P	V
		5443.92	40.29	-13.71	54	28.93	34.2	9.87	32.71	100	139	A	V
	*	5500	97.13	-	-	85.85	34.2	9.97	32.89	100	139	P	V
	5500	90.19	-	-	78.91	34.2	9.97	32.89	100	139	A	V	
802.11n HT20 CH 116 5580MHz		5417.68	48.1	-25.9	74	36.68	34.2	9.84	32.62	100	260	P	H
		5465.2	47.14	-21.16	68.3	35.82	34.2	9.92	32.8	100	260	P	H
		5448.64	40.4	-13.6	54	29.01	34.2	9.9	32.71	100	260	A	H
	*	5580	103.44	-	-	91.73	34.23	10.21	32.73	100	260	P	H
		5580	96.48	-	-	84.77	34.23	10.21	32.73	100	260	A	H
		5763.425	49.57	-18.73	68.3	37.35	34.63	10.55	32.96	100	260	P	H
		5443.84	48.72	-25.28	74	37.36	34.2	9.87	32.71	117	141	P	V
		5468.08	48.16	-20.14	68.3	36.84	34.2	9.92	32.8	117	141	P	V
		5457.52	40.08	-13.92	54	28.78	34.2	9.9	32.8	117	141	A	V
	*	5580	99.49	-	-	87.78	34.23	10.21	32.73	117	141	P	V
	5580	92.52	-	-	80.81	34.23	10.21	32.73	117	141	A	V	
	5734.76	50.13	-18.17	68.3	37.97	34.6	10.49	32.93	117	141	P	V	



802.11n HT20 CH 140 5700MHz	*	5700	101.91	-	-	89.97	34.5	10.32	32.88	100	261	P	H
		5700	94	-	-	82.06	34.5	10.32	32.88	100	261	A	H
		5725	62.75	-5.55	68.3	50.64	34.57	10.44	32.9	100	261	P	H
	*	5700	99.3	-	-	87.36	34.5	10.32	32.88	100	131	P	V
		5700	92.04	-	-	80.1	34.5	10.32	32.88	100	131	A	V
		5728.84	59.27	-9.03	68.3	47.16	34.57	10.44	32.9	100	131	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 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	47.15	-26.85	74	55.44	37.9	12.01	58.2	-	-	P	H
		16500	51.51	-16.79	68.3	52.17	41.57	15.27	57.5	-	-	P	H
802.11n HT20 CH 116 5580MHz		11000	47.24	-26.76	74	55.53	37.9	12.01	58.2	-	-	P	V
		16500	52.03	-16.27	68.3	52.69	41.57	15.27	57.5	-	-	P	V
802.11n HT20 CH 140 5700MHz		11160	48.25	-25.75	74	56.2	38.05	12.1	58.1	-	-	P	H
		16740	52.91	-15.39	68.3	52.5	42.07	15.41	57.07	-	-	P	H
802.11n HT20 CH 140 5700MHz		11160	47.89	-26.11	74	55.84	38.05	12.1	58.1	-	-	P	V
		16740	53.12	-15.18	68.3	52.71	42.07	15.41	57.07	-	-	P	V
802.11n HT20 CH 140 5700MHz		11400	47.65	-26.35	74	55.15	38.27	12.19	57.96	-	-	P	H
		17100	55.01	-13.29	68.3	53.8	42.46	15.45	56.7	-	-	P	H
802.11n HT20 CH 140 5700MHz		11400	47.99	-26.01	74	55.49	38.27	12.19	57.96	-	-	P	V
		17100	54.94	-13.36	68.3	53.73	42.46	15.45	56.7	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5443.6	52.5	-21.5	74	41.14	34.2	9.87	32.71	100	265	P	H
		5462.08	53.89	-14.41	68.3	42.59	34.2	9.9	32.8	100	265	P	H
		5459.92	42.47	-11.53	54	31.17	34.2	9.9	32.8	100	265	A	H
	*	5510	99.73	-	-	88.41	34.2	9.97	32.85	100	265	P	H
		5510	92.62	-	-	81.3	34.2	9.97	32.85	100	265	A	H
		5743.58	49.71	-18.59	68.3	37.55	34.6	10.49	32.93	100	265	P	H
		5448.16	50.51	-23.49	74	39.12	34.2	9.9	32.71	100	132	P	V
		5468.32	49.22	-19.08	68.3	37.9	34.2	9.92	32.8	100	132	P	V
		5452.48	41.46	-12.54	54	30.16	34.2	9.9	32.8	100	132	A	V
	*	5510	94.66	-	-	83.34	34.2	9.97	32.85	100	132	P	V
		5510	86.95	-	-	75.63	34.2	9.97	32.85	100	132	A	V
		5742.635	49.58	-18.72	68.3	37.42	34.6	10.49	32.93	100	132	P	V
802.11n HT40 CH 110 5550MHz		5394.88	48.17	-25.83	74	36.77	34.2	9.82	32.62	100	267	P	H
		5470	47.28	-21.02	68.3	35.96	34.2	9.92	32.8	100	267	P	H
		5447.92	40.86	-13.14	54	29.47	34.2	9.9	32.71	100	267	A	H
	*	5550	99.93	-	-	88.39	34.2	10.15	32.81	100	267	P	H
		5550	92.87	-	-	81.33	34.2	10.15	32.81	100	267	A	H
		5740.745	49.15	-19.15	68.3	36.99	34.6	10.49	32.93	100	267	P	H
		5456.32	47.73	-26.27	74	36.43	34.2	9.9	32.8	100	135	P	V
		5465.44	47.85	-20.45	68.3	36.53	34.2	9.92	32.8	100	135	P	V
		5453.92	40.59	-13.41	54	29.29	34.2	9.9	32.8	100	135	A	V
	*	5550	94.15	-	-	82.61	34.2	10.15	32.81	100	135	P	V
	5550	86.67	-	-	75.13	34.2	10.15	32.81	100	135	A	V	
	5748.935	50.22	-18.08	68.3	38.06	34.6	10.49	32.93	100	135	P	V	



802.11n HT40 CH 134 5670MHz		5459.2	48.42	-25.58	74	37.12	34.2	9.9	32.8	101	276	P	H
		5466.2	48.45	-19.85	68.3	37.13	34.2	9.92	32.8	101	276	P	H
		5423.5	40.64	-13.36	54	29.22	34.2	9.84	32.62	101	276	A	H
	*	5670	99.45	-	-	87.57	34.4	10.32	32.84	101	276	P	H
		5670	92.01	-	-	80.13	34.4	10.32	32.84	101	276	A	H
		5749.075	51.08	-17.22	68.3	38.92	34.6	10.49	32.93	101	276	P	H
		5458.5	47.71	-26.29	74	36.41	34.2	9.9	32.8	101	132	P	V
		5463.75	47.1	-21.2	68.3	35.78	34.2	9.92	32.8	101	132	P	V
		5457.1	40.36	-13.64	54	29.06	34.2	9.9	32.8	101	132	A	V
	*	5670	95.62	-	-	83.74	34.4	10.32	32.84	101	132	P	V
		5670	87.11	-	-	75.23	34.4	10.32	32.84	101	132	P	V
		5726.15	51.76	-16.54	68.3	39.65	34.57	10.44	32.9	101	132	P	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												

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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102		11020	47.47	-26.53	74	55.7	37.92	12.04	58.19	-	-	P	H
		16530	52.4	-15.9	68.3	52.94	41.64	15.26	57.44	-	-	P	H
5510MHz		11020	47.48	-26.52	74	55.71	37.92	12.04	58.19	-	-	P	V
		16530	51.43	-16.87	68.3	51.97	41.64	15.26	57.44	-	-	P	V
802.11n HT40 CH 110 5550MHz		11100	48.17	-25.83	74	56.15	37.99	12.17	58.14	-	-	P	H
		16650	50.04	-18.26	68.3	50.09	41.89	15.28	57.22	-	-	P	H
		11100	48.67	-25.33	74	56.65	37.99	12.17	58.14	-	-	P	V
		16650	51.59	-16.71	68.3	51.64	41.89	15.28	57.22	-	-	P	V
802.11n HT40 CH 134 5670MHz		11340	47.85	-26.15	74	55.3	38.21	12.34	58	-	-	P	H
		17010	51.9	-16.4	68.3	50.35	42.58	15.59	56.62	-	-	P	H
		11340	47.1	-26.9	74	54.55	38.21	12.34	58	-	-	P	V
		17010	51.96	-16.34	68.3	50.41	42.58	15.59	56.62	-	-	P	V



Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.
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Band 3 - 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5457.04	54.9	-19.1	74	43.6	34.2	9.9	32.8	102	114	P	H
		5467.84	57.58	-10.72	68.3	46.26	34.2	9.92	32.8	102	114	P	H
		5453.68	49.77	-4.23	54	38.47	34.2	9.9	32.8	102	114	A	H
	*	5530	97.19	-	-	85.77	34.2	10.03	32.81	102	114	P	H
		5530	90.38	-	-	78.96	34.2	10.03	32.81	102	114	A	H
		5750.82	50.47	-17.83	68.3	38.31	34.6	10.49	32.93	102	114	P	H
		5459.92	56.16	-17.84	74	44.86	34.2	9.9	32.8	101	132	P	V
		5467.12	58.33	-9.97	68.3	47.01	34.2	9.92	32.8	101	132	P	V
		5458.96	47.4	-6.6	54	36.1	34.2	9.9	32.8	101	132	A	V
	*	5530	92.68	-	-	81.26	34.2	10.03	32.81	101	132	P	V
		5530	85.95	-	-	74.53	34.2	10.03	32.81	101	132	A	V
		5742.01	50.27	-18.03	68.3	38.11	34.6	10.49	32.93	101	132	P	V
802.11ac VHT80 CH 122 5610MHz		5386.96	48.16	-25.84	74	36.77	34.2	9.81	32.62	101	237	P	H
		5465.68	47.24	-21.06	68.3	35.92	34.2	9.92	32.8	101	237	P	H
		5459.68	42.44	-11.56	54	31.14	34.2	9.9	32.8	101	237	A	H
	*	5610	97.03	-	-	85.17	34.3	10.33	32.77	101	237	P	H
		5610	90.49	-	-	78.63	34.3	10.33	32.77	101	237	A	H
		5725.8	51.55	-16.75	68.3	39.44	34.57	10.44	32.9	101	237	P	H
		5404.96	47.85	-26.15	74	36.45	34.2	9.82	32.62	101	132	P	V
		5464	47.82	-20.48	68.3	36.5	34.2	9.92	32.8	101	132	P	V
		5451.52	41.74	-12.26	54	30.44	34.2	9.9	32.8	101	132	A	V
	*	5610	93.29	-	-	81.43	34.3	10.33	32.77	101	132	P	V
	5610	85.99	-	-	74.13	34.3	10.33	32.77	101	132	A	V	
	5725.97	50.07	-18.23	68.3	37.96	34.57	10.44	32.9	101	132	P	V	



Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>
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Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11060	47.58	-26.42	74	55.66	37.96	12.12	58.16	-	-	P	H
		16590	49.36	-18.94	68.3	49.7	41.75	15.25	57.34	-	-	P	H
		11060	46.03	-27.97	74	54.11	37.96	12.12	58.16	-	-	P	V
		16590	50.17	-18.13	68.3	50.51	41.75	15.25	57.34	-	-	P	V
802.11ac VHT80 CH 122 5610MHz		11220	48.03	-25.97	74	55.88	38.1	12.12	58.07	-	-	P	H
		16830	50.46	-17.84	68.3	49.62	42.24	15.51	56.91	-	-	P	H
		11220	47.8	-26.2	74	55.65	38.1	12.12	58.07	-	-	P	V
		16830	51.13	-17.17	68.3	50.29	42.24	15.51	56.91	-	-	P	V

Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>
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Band 3 5470~5725MHz

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		5378.6	48.24	-25.76	74	36.85	34.2	9.81	32.62	101	250	P	H
		5469.9	47.1	-21.2	68.3	35.78	34.2	9.92	32.8	101	250	P	H
		5720	98.89	-	-	86.78	34.57	10.44	32.9	101	250	P	H
		5880.75	50.23	-18.07	68.3	37.5	34.97	10.85	33.09	101	250	P	H
		5430.85	39.74	-14.26	54	28.38	34.2	9.87	32.71	101	250	A	H
		5720	93.18	-	-	81.07	34.57	10.44	32.9	101	250	A	H
		5410.5	47.39	-26.61	74	35.99	34.2	9.82	32.62	101	131	P	V
		5469.35	46.71	-21.59	68.3	35.39	34.2	9.92	32.8	101	131	P	V



		5720	98.1	-	-	85.99	34.57	10.44	32.9	101	131	P	V
		5895.05	50.68	-17.62	68.3	37.92	35	10.89	33.13	101	131	P	V
		5446.25	39.7	-14.3	54	28.31	34.2	9.9	32.71	101	131	A	V
		5720	91.93	-	-	79.82	34.57	10.44	32.9	101	131	A	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												

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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	47.32	-26.68	74	54.72	38.3	12.24	57.94	-	-	P	H
		17160	49.96	-18.34	68.3	48.79	42.36	15.58	56.77	-	-	P	H
		11440	47.24	-26.76	74	54.64	38.3	12.24	57.94	-	-	P	V
		17160	50.33	-17.97	68.3	49.16	42.36	15.58	56.77	-	-	P	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												



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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		5395.1	47.9	-26.1	74	36.5	34.2	9.82	32.62	100	113	P	H
		5469.35	47.99	-20.31	68.3	36.67	34.2	9.92	32.8	100	113	P	H
		5720	100.79	-	-	88.68	34.57	10.44	32.9	100	113	P	H
		5880.75	49.88	-18.42	68.3	37.15	34.97	10.85	33.09	100	113	P	H
		5451.2	40	-14	54	28.7	34.2	9.9	32.8	100	113	A	H
		5720	94.79	-	-	82.68	34.57	10.44	32.9	100	113	A	H
		5457.8	48.05	-25.95	74	36.75	34.2	9.9	32.8	281	102	P	V
		5461.1	46.18	-22.12	68.3	34.88	34.2	9.9	32.8	281	102	P	V
		5720	97.26	-	-	85.15	34.57	10.44	32.9	281	102	P	V
		5865.35	49.65	-18.65	68.3	36.99	34.93	10.82	33.09	281	102	P	V
		5457.25	39.66	-14.34	54	28.36	34.2	9.9	32.8	281	102	A	V
		5720	91.87	-	-	79.76	34.57	10.44	32.9	281	102	A	V
Remark	<p align="center">1. No other spurious found. 2. All results are PASS against Peak and Average limit line.</p>												

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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	47.54	-26.46	74	54.94	38.3	12.24	57.94	-	-	P	H
		17160	52.16	-16.14	68.3	50.99	42.36	15.58	56.77	-	-	P	H
		11440	47.28	-26.72	74	54.68	38.3	12.24	57.94	-	-	P	V
		17160	53.06	-15.24	68.3	51.89	42.36	15.58	56.77	-	-	P	V
Remark	<p align="center">1. No other spurious found. 2. All results are PASS against Peak and Average limit line.</p>												



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

Table with 14 columns: WIFI Ant., Note, Frequency (MHz), Level (dBµV/m), Margin (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11n HT40 CH 142 5710MHz and a Remark section.



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

WIFI Ant.	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		11420	46.46	-27.54	74	53.91	38.28	12.22	57.95	-	-	P	H
		17130	51.43	-16.87	68.3	50.24	42.41	15.51	56.73	-	-	P	H
		11420	47	-27	74	54.45	38.28	12.22	57.95	-	-	P	V
		17130	51.66	-16.64	68.3	50.47	42.41	15.51	56.73	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant.	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		5417.1	49.08	-24.92	74	37.66	34.2	9.84	32.62	100	235	P	H
		5462.2	46.61	-21.69	68.3	35.31	34.2	9.9	32.8	100	235	P	H
		5690	93.93	-	-	81.99	34.5	10.32	32.88	100	235	P	H
		5893.95	50.29	-18.01	68.3	37.53	35	10.89	33.13	100	235	P	H
		5456.7	42.31	-11.69	54	31.01	34.2	9.9	32.8	100	235	A	H
		5690	89.31	-	-	77.37	34.5	10.32	32.88	100	235	A	H
		5375.3	47.94	-26.06	74	36.56	34.2	9.8	32.62	100	126	P	V
		5464.4	46.33	-21.97	68.3	35.01	34.2	9.92	32.8	100	126	P	V
		5690	89.32	-	-	77.38	34.5	10.32	32.88	100	126	P	V
		5897.8	51.14	-17.16	68.3	38.38	35	10.89	33.13	100	126	P	V
		5457.8	42.52	-11.48	54	31.22	34.2	9.9	32.8	100	126	A	V
		5690	85.02	-	-	73.08	34.5	10.32	32.88	100	126	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.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		11380	48.17	-25.83	74	55.66	38.25	12.23	57.97	-	-	P	H
		17070	51.9	-16.4	68.3	50.55	42.51	15.51	56.67	-	-	P	H
		11380	48.45	-25.55	74	55.94	38.25	12.23	57.97	-	-	P	V
		17070	51.54	-16.76	68.3	50.19	42.51	15.51	56.67	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
5GHz 802.11ac VHT80 LF		58.13	19.6	-20.4	40	32.57	19.75	2.2	34.92	-	-	P	H
		158.04	20.33	-23.17	43.5	33.14	19.31	2.58	34.7	-	-	P	H
		299.66	20.36	-25.64	46	32.04	19.73	3.19	34.6	-	-	P	H
		608.12	24.76	-21.24	46	29.56	25.89	3.89	34.58	-	-	P	H
		817.64	28.14	-17.86	46	30.09	28.36	3.99	34.3	-	-	P	H
		961.2	29.14	-24.86	54	29.47	29.85	4.1	34.28	-	-	P	H
		77.53	30.53	-9.47	40	46.9	15.98	2.37	34.72	-	-	P	V
		161.92	25.53	-17.97	43.5	38.32	19.31	2.6	34.7	-	-	P	V
		240.49	21.73	-24.27	46	35.56	18.04	2.83	34.7	-	-	P	V
		563.5	24.27	-21.73	46	30.02	25.07	3.71	34.53	-	-	P	V
		798.24	27.43	-18.57	46	29.57	28.21	3.95	34.3	-	-	P	V
	933.07	29.52	-16.48	46	30.04	29.65	4.13	34.3	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<Simultaneous transmission>

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz <EB41 Co-location		5459.44	55.36	-18.64	74	44.06	34.2	9.9	32.8	102	113	P	H
		5469.76	58.03	-10.27	68.3	46.71	34.2	9.92	32.8	102	113	P	H
		5457.76	49.6	-4.4	54	38.3	34.2	9.9	32.8	102	113	A	H
	*	5530	96.77	-	-	85.35	34.2	10.03	32.81	102	113	P	H
		5530	89.7	-	-	78.28	34.2	10.03	32.81	102	113	A	H
		5757.125	51.47	-16.83	68.3	39.25	34.63	10.55	32.96	102	113	P	H
		5457.04	49.81	-24.19	74	38.51	34.2	9.9	32.8	102	116	P	V
		5468.08	53.66	-14.64	68.3	42.34	34.2	9.92	32.8	102	116	P	V
		5459.2	45.19	-8.81	54	33.89	34.2	9.9	32.8	102	116	A	V
		*	5530	91.34	-	-	79.92	34.2	10.03	32.81	102	116	P
		5530	83.41	-	-	71.99	34.2	10.03	32.81	102	116	A	V
		5726.57	49.98	-18.32	68.3	37.87	34.57	10.44	32.9	102	116	P	V
Remark	<p>3. No other spurious found.</p> <p>4. All results are PASS against Peak and Average limit line.</p>												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz <EB41 Co-location		5168	51.97	-16.33	68.3	41.2	34	9.37	32.6	-	-	P	H
		7752	43.36	-24.94	68.3	56.05	35.85	11.06	59.6	-	-	P	H
		10336	44.15	-24.15	68.3	55.77	37.2	11.51	60.33	-	-	P	H
		11060	47.14	-26.86	74	55.22	37.96	12.12	58.16	-	-	P	H
		16590	50.52	-17.78	68.3	50.86	41.75	15.25	57.34	-	-	P	H
		5168	47.88	-20.42	68.3	37.11	34	9.37	32.6	-	-	P	V
		7752	43.26	-25.04	68.3	55.95	35.85	11.06	59.6	-	-	P	V
		10336	44.85	-23.45	68.3	56.47	37.2	11.51	60.33	-	-	P	V



		11060	47.07	-26.93	74	55.15	37.96	12.12	58.16	-	-	P	V
		16590	50.61	-17.69	68.3	50.95	41.75	15.25	57.34	-	-	P	V
Remark	<p>3. No other spurious found.</p> <p>4. All results are PASS against Peak and Average limit line.</p>												

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 Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(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		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
2412MHz													

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path 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. Margin (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) + Path 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. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

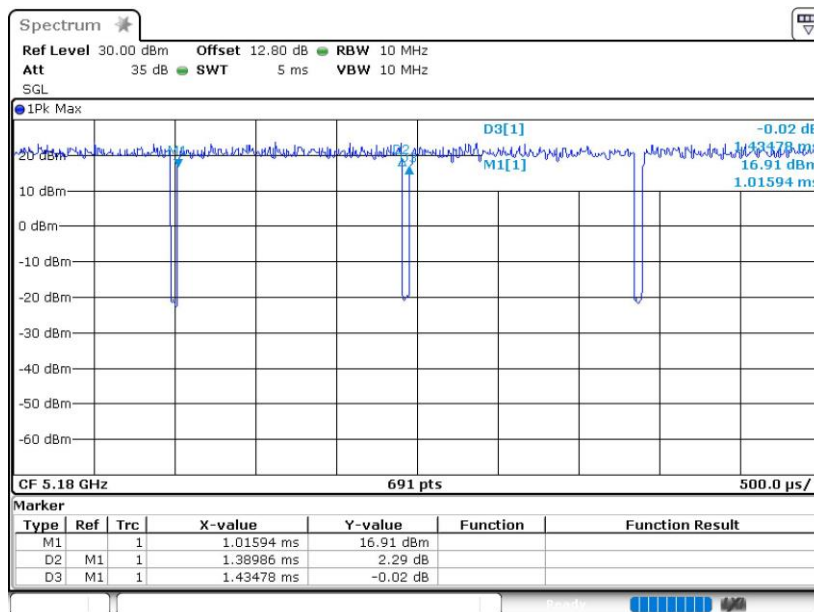
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Duty Cycle Plots

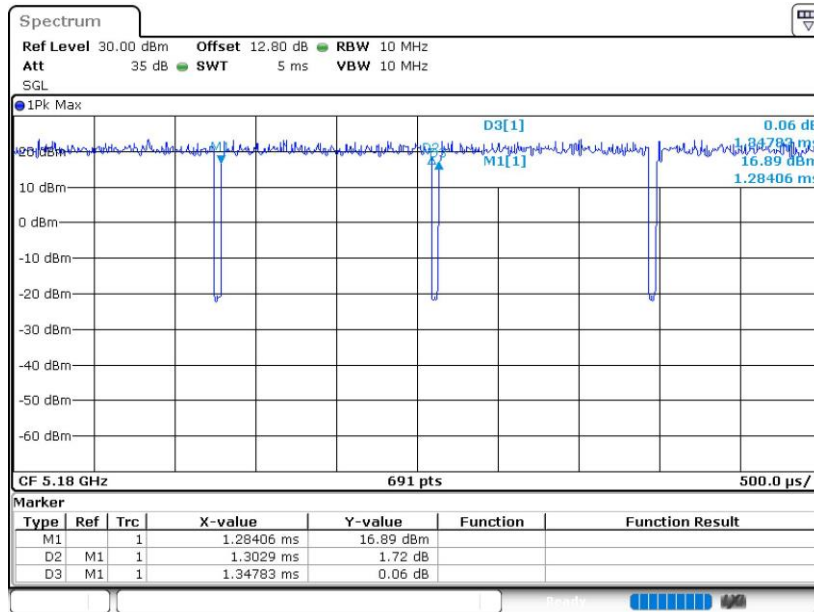
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	96.87	1.390	0.719	1KHz
802.11n HT20	96.67	1.303	0.768	1KHz
802.11n HT40	93.73	0.650	1.540	3KHz
802.11ac VHT20	96.80	1.316	0.760	1KHz
802.11ac VHT40	93.75	0.652	1.533	3KHz
802.11ac VHT80	87.84	0.325	3.080	10KHZ

802.11a

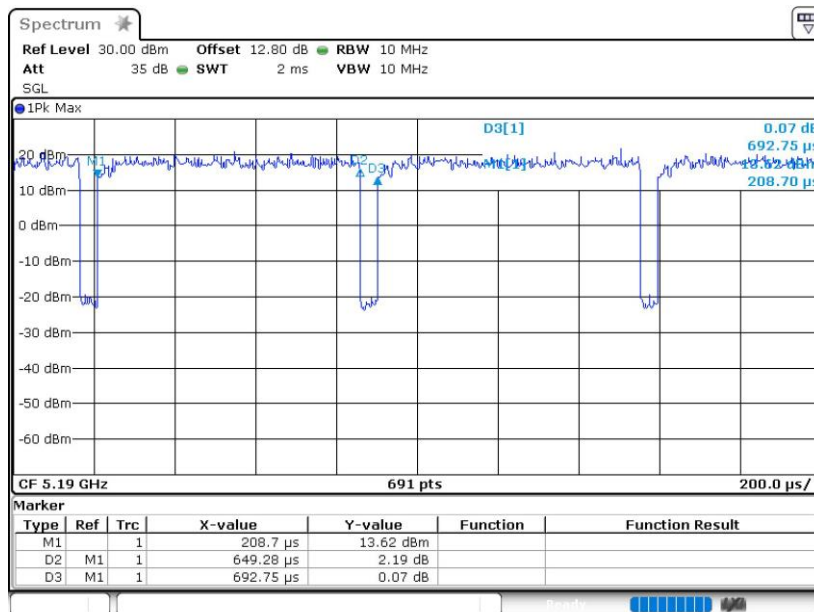




802.11n HT20

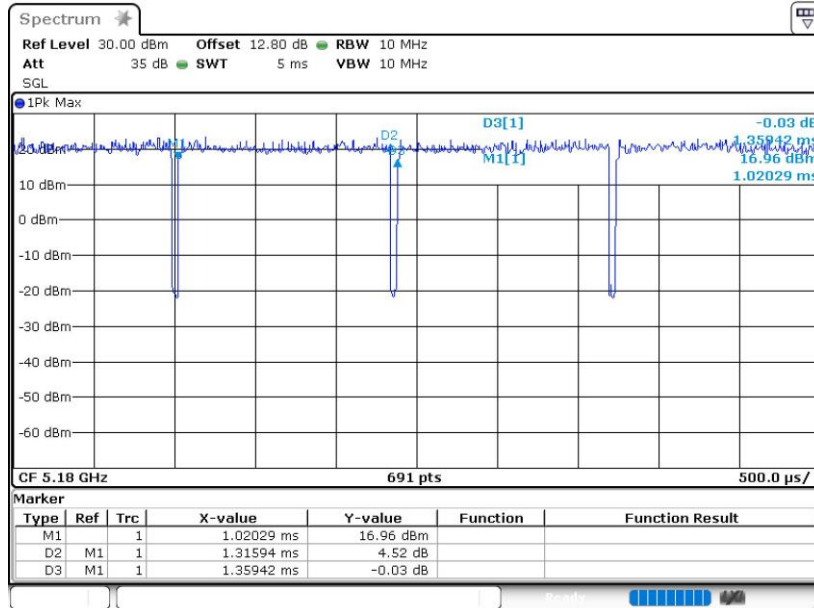


802.11n HT40

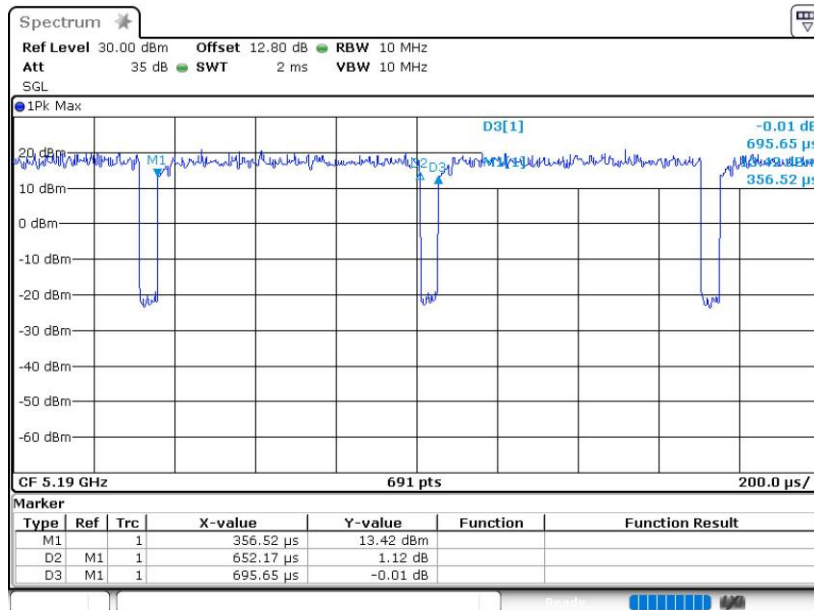




802.11ac VHT20



802.11ac VHT40





802.11ac VHT80

