



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2201-1
FCC ID : IHDT56AB1
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Nov. 03, 2021 ~ Dec. 21, 2021

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.

Jason Jia

Reviewed by: Jason Jia / Supervisor

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Approved by: Alex Wang / Manager



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People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR192317E	Rev. 01	Initial issue of report	Dec. 10, 2021
FR192317E	Rev. 02	Update conducted Power and PSD test data for 5260 MHz ~ 5320 MHz	Dec. 21, 2021



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 3.12 dB at 5464.080 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.04 dB at 1.503 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	Pass	-

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

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2201-1
FCC ID	IHDT56AB1
IMEI Code	Conducted: N/A Conduction: 355871980015197/355871980019205 Radiation: 355871980016294
HW Version	DVT2
SW Version	SSH32.79
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 ~ 5720 MHz
Maximum Output Power to Antenna	<p>MIMO<Ant.1+2></p> <p><5180 MHz ~ 5240 MHz></p> <p>802.11a : 20.94 dBm / 0.1242 W 802.11n HT20 : 20.79 dBm / 0.1199 W 802.11n HT40 : 19.97 dBm / 0.0993 W 802.11ac VHT20 : 20.75 dBm / 0.1189 W 802.11ac VHT40 : 19.87 dBm / 0.0971 W 802.11ac VHT80 : 18.73 dBm / 0.0746 W 802.11ac VHT160 : 16.82 dBm / 0.0481 W 802.11ax HE20 : 20.88 dBm / 0.1225 W 802.11ax HE40 : 20.01 dBm / 0.1002 W 802.11ax HE80 : 18.78 dBm / 0.0755 W 802.11ax HE160 : 16.89 dBm / 0.0489 W</p> <p><5260 MHz ~ 5320 MHz></p> <p>802.11a : 19.61 dBm / 0.0914 W 802.11n HT20 : 19.44 dBm / 0.0879 W 802.11n HT40 : 19.00 dBm / 0.0794 W 802.11ac VHT20 : 19.50 dBm / 0.0891 W 802.11ac VHT40 : 19.03 dBm / 0.0800 W 802.11ac VHT80 : 18.85 dBm / 0.0767 W 802.11ax HE20 : 19.55 dBm / 0.0902 W 802.11ax HE40 : 19.07 dBm / 0.0807 W 802.11ax HE80 : 18.88 dBm / 0.0773 W 802.11ax HE160 : 13.85 dBm / 0.0243 W</p> <p><5500 MHz ~ 5720 MHz ></p> <p>802.11a : 21.06 dBm / 0.1276 W 802.11n HT20 : 21.06 dBm / 0.1276 W 802.11n HT40 : 20.20 dBm / 0.1047 W 802.11ac VHT20 : 21.01 dBm / 0.1262 W 802.11ac VHT40 : 20.12 dBm / 0.1028 W 802.11ac VHT80 : 18.98 dBm / 0.0791 W 802.11ac VHT160 : 18.40 dBm / 0.0692 W 802.11ax HE20 : 21.10 dBm / 0.1288 W 802.11ax HE40 : 20.22 dBm / 0.1052 W 802.11ax HE80 : 19.01 dBm / 0.0796 W 802.11ax HE160 : 18.44 dBm / 0.0698 W</p>
Antenna Type / Gain	<p><5180 MHz ~ 5240 MHz ></p> <p><Ant. 1> : PIFA Antenna with gain -3.20 dBi <Ant. 2> : PIFA Antenna with gain -3.20 dBi</p> <p><5260 MHz ~ 5320 MHz ></p> <p><Ant. 1> : PIFA Antenna with gain -3.10 dBi <Ant. 2> : PIFA Antenna with gain -3.10 dBi</p> <p><5500 MHz ~ 5720 MHz ></p> <p><Ant. 1> : PIFA Antenna with gain -3.00 dBi <Ant. 2> : PIFA Antenna with gain -3.00 dBi</p>
Type of Modulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM /



	256QAM) 802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)		
Antenna Function Description		Ant. 1	Ant. 2
	802.11 a/n/ac/ax SISO/MIMO	V	V

Note:

1. For 802.11n/ac/ax 20/40/80/160 mode, the whole testing have assessed only 802.11ax 20/40/80/160 by referring to their maximum conducted power.
2. 802.11ax support full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) are tested, only the worse data were reported.
3. Ant.1 corresponds to ant.5 in EP. Ant.2 corresponds to ant.6 in EP.

1.5 Modification of EUT

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

1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH05-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH05-KS	AUDIX	E3	6.2009-8-24al
2.	CO01-KS	AUDIX	E3	6.2009-8-24



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.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output 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.

1.9 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola (Salom)	Model Name	MC-681
AC Adapter 1(EU)	Brand Name	Motorola (Salom)	Model Name	MC-682
AC Adapter 1(UK)	Brand Name	Motorola (Salom)	Model Name	MC-683
AC Adapter 1(AR)	Brand Name	Motorola (Salom)	Model Name	MC-686
AC Adapter 1(BR)	Brand Name	Motorola (Salom)	Model Name	MC-687
AC Adapter 1(Chile)	Brand Name	Motorola (Salom)	Model Name	MC-689
AC Adapter 2(AU)	Brand Name	Motorola (Salom)	Model Name	MC-305
AC Adapter 3(AU)	Brand Name	Motorola (Acbel)	Model Name	MC-305
Battery	Brand Name	Motorola (ATL)	Model Name	NA50
Earphone	Brand Name	Motorola(Lyand)	Model Name	MD211(SH38D20195)
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D13215
USB Cable 2	Brand Name	Motorola(Cabletech)	Model Name	SC18D13216
USB Cable 3	Brand Name	Motorola(Luxshare)	Model Name	SC18D13217
USB Cable 4	Brand Name	Motorola(Saibao)	Model Name	SC18D24968
Type C to HDMI Cable /USBC Cable	Brand Name	Motorola(Linxee)	Model Name	SC18D02146
Stylus	Brand Name	Motorola smart stylus	Model Name	XT2201-S
Smart Folio	Brand Name	Motorola(Techson)	Model Name	SS68D36907,SS68D36906
Wireless Dongle	Brand Name	Motorola	Model Name	MD-02
HDMI Cable	Brand Name	Motorola	Model Name	HC-01
USB Cable(Type A/C)	Brand Name	Motorola	Model Name	SC18C24367



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 (Y 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)
5150-5250 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210	50##	5250

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 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)
5470-5725 MHz U-NII-2C	100	5500	114##	5570
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
	112	5560		



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.
3. The above Frequency and Channel in "##" were 802.11ac VHT160

2.2 Test Mode

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

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

Co-location
802.11ax HE160 CH114 RU996 5570MHz TX + BLE CH39 TX+ LTE Band 48 Link
802.11ax HE160 CH50 5250MHz TX + 802.11ax HE20 CH11 TX+ LTE Band 48 Link

Test Cases	
AC Conducted Emission	Mode 1 : GSM 850 Idle + Bluetooth Link + WLAN Link(5G) + USB Cable 4(Charging From Adaptor 1)
Remark:	
1. For Radiated Test Cases, The tests were performance with Adapter2, Battery, and USB Cable1.	



Ch. #		U-NII-1 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		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 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		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 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

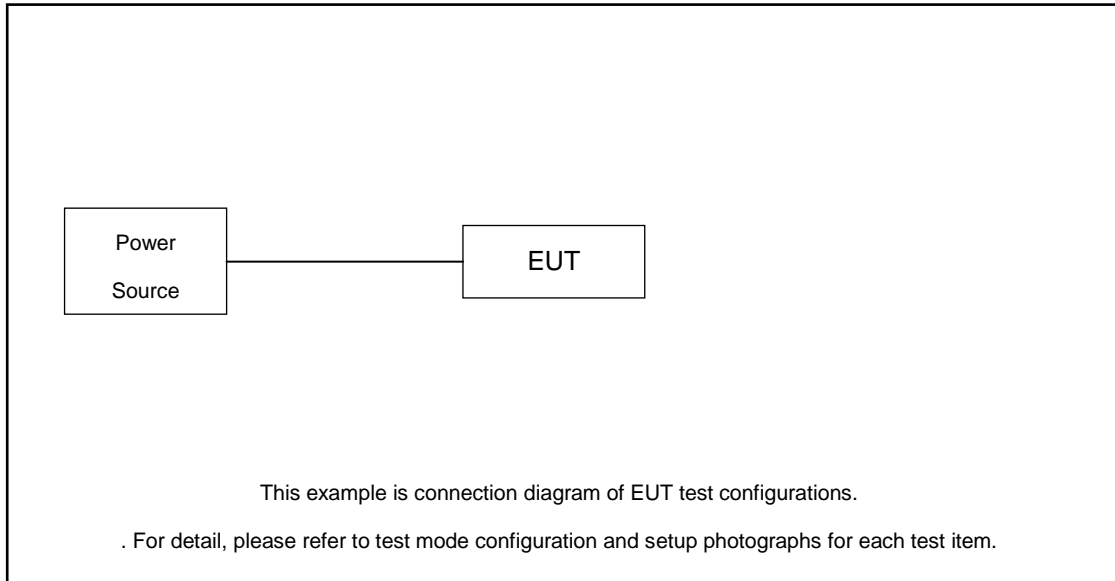
Ch. #		U-NII-1 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	-
Straddle		-	-	138

Ch. #		U-NII-1 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		802.11ac VHT160		802.11ac VHT160
L	Low	-	-	-
M	Middle	50		114
H	High	-	-	-

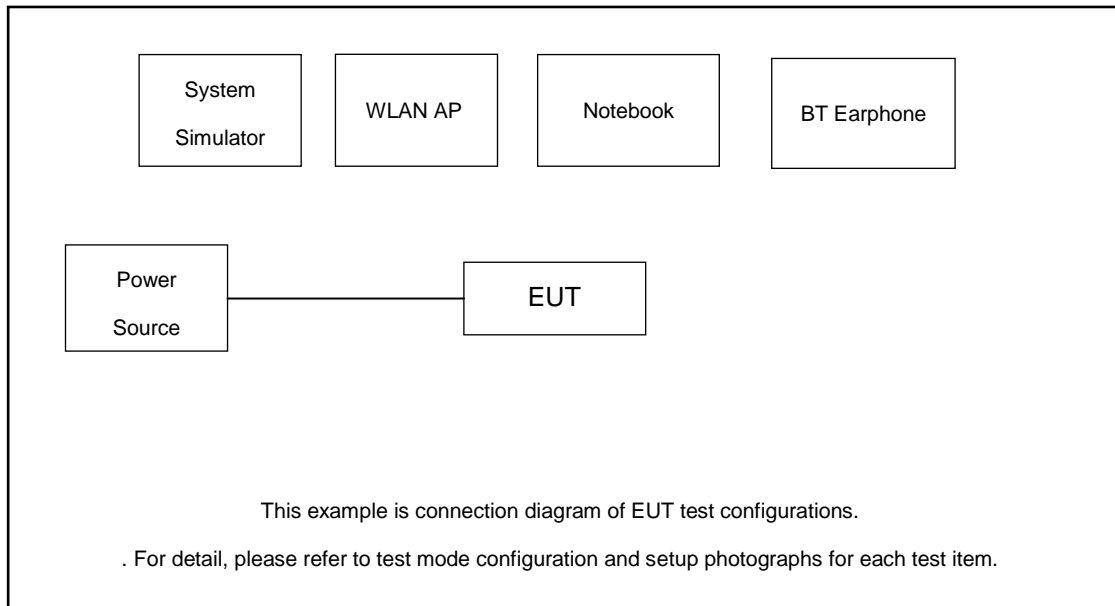
Note: 802.11ax supports the same channel as 802.11ac.

2.3 Connection Diagram of Test System

For Radiated Emission



For Conducted Emission





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
3.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m

2.5 EUT Operation Test Setup

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

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.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

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

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

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, 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.

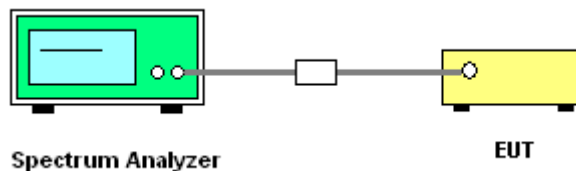
3.1.2 Measuring Instruments

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 1MHz and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup

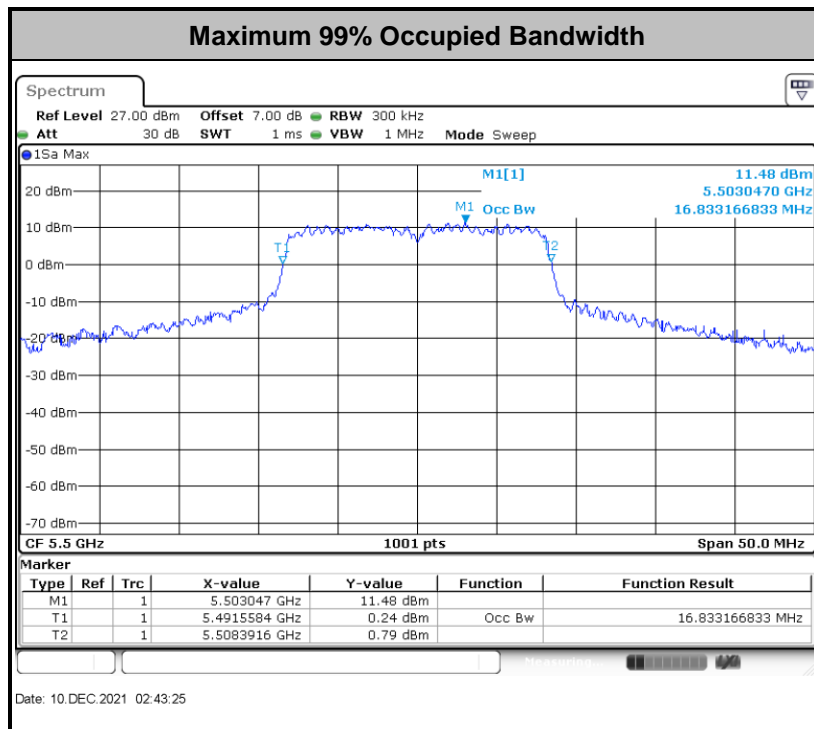
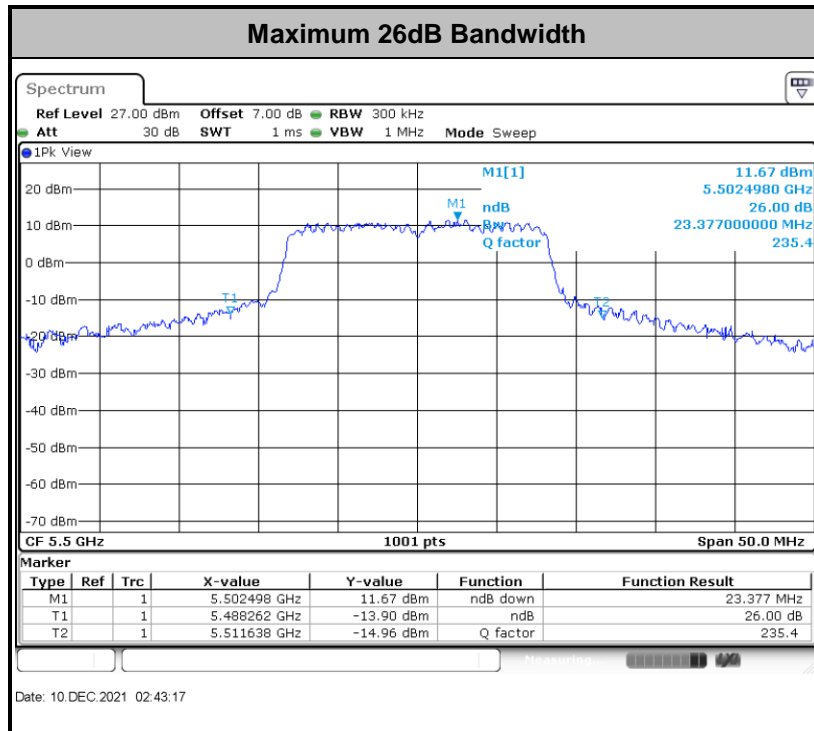


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

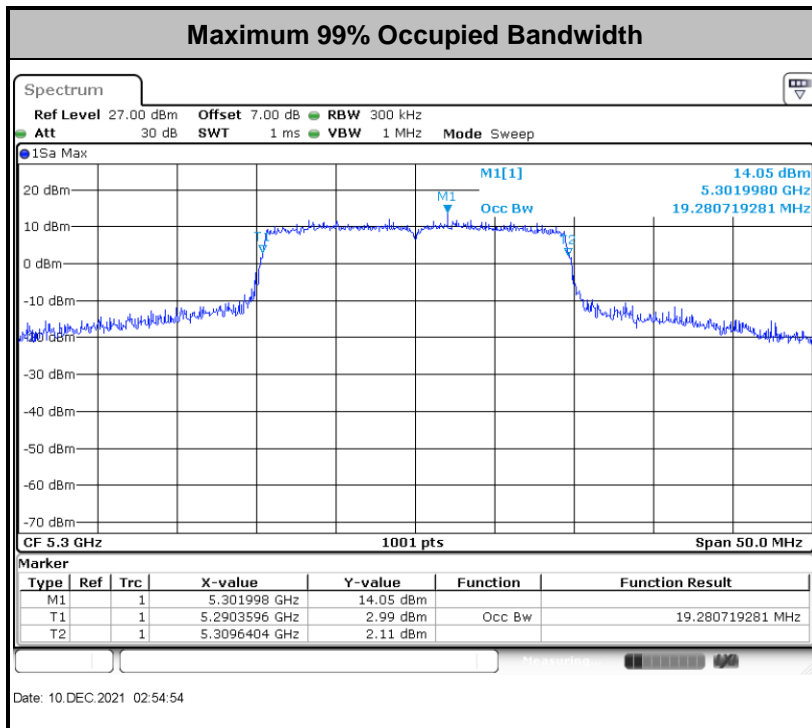
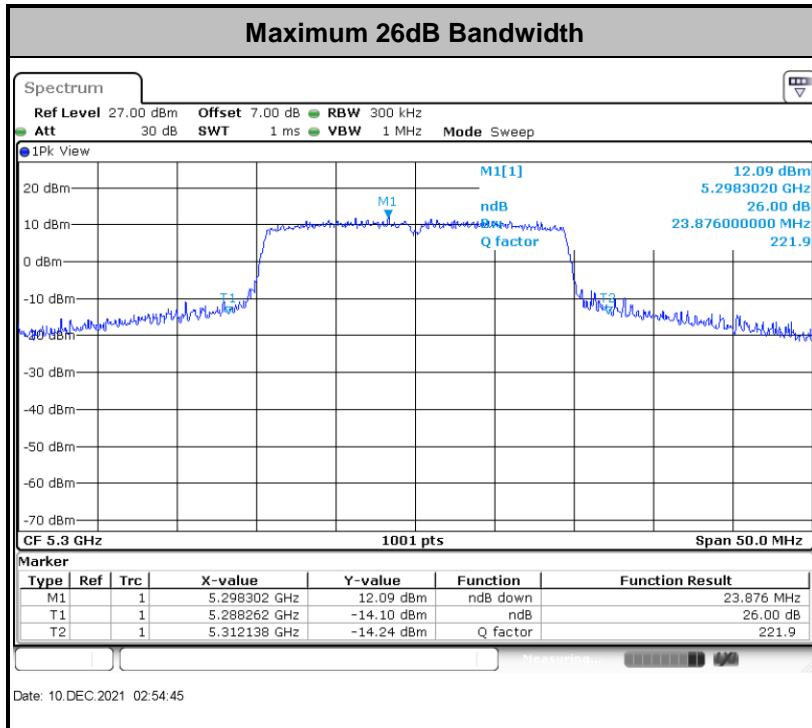


For 802.11a:



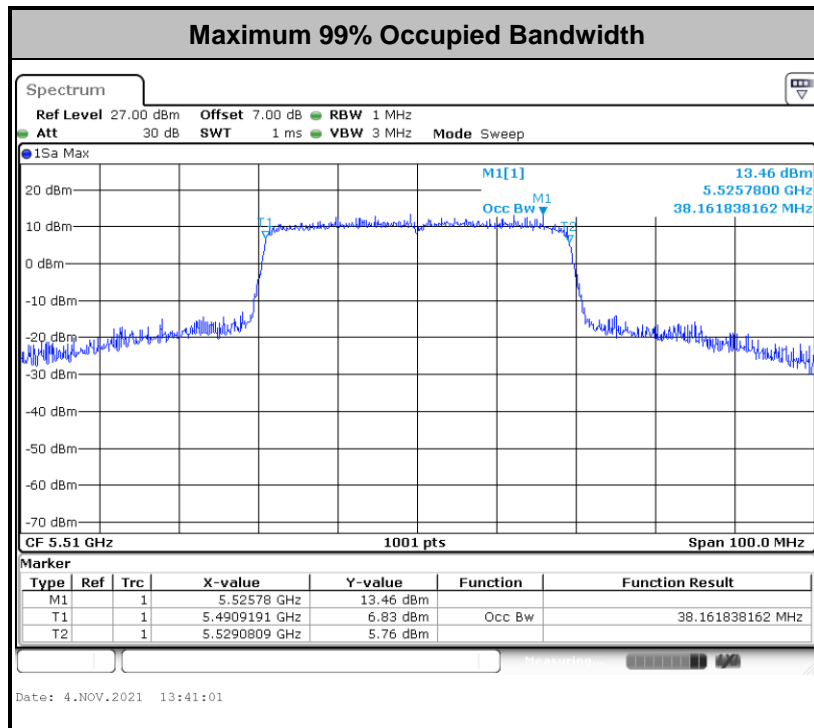
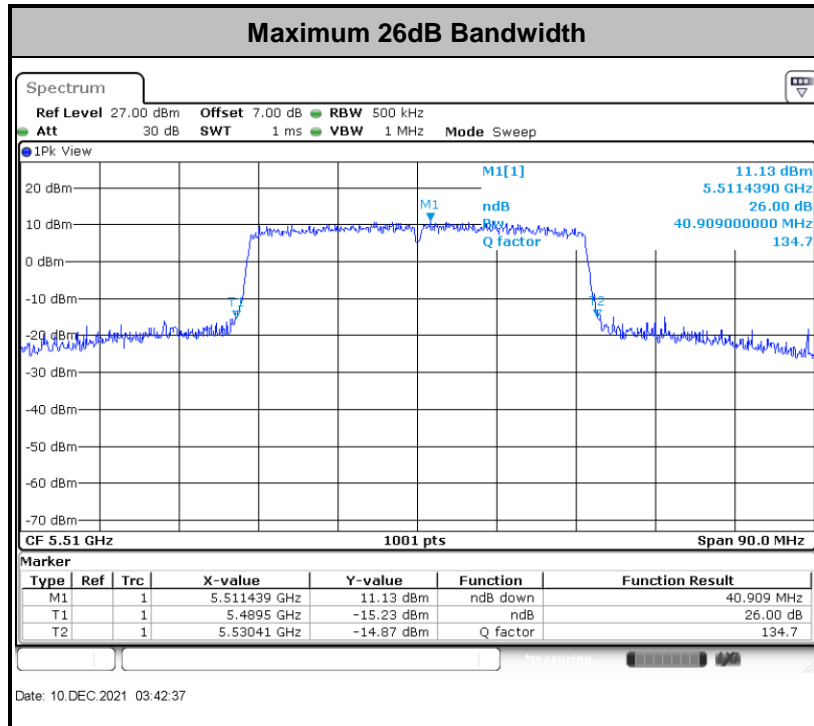


For 20MHz:



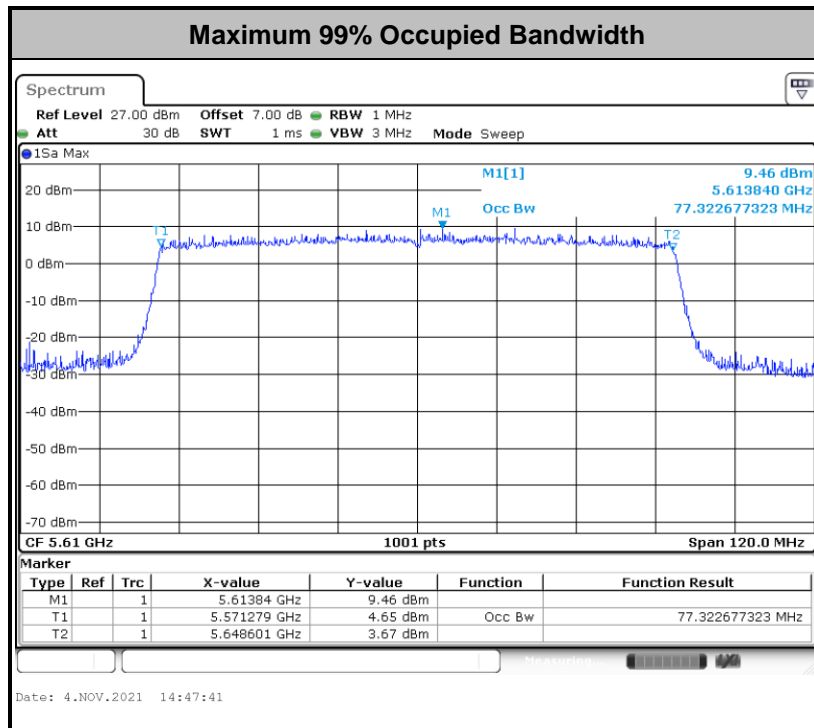
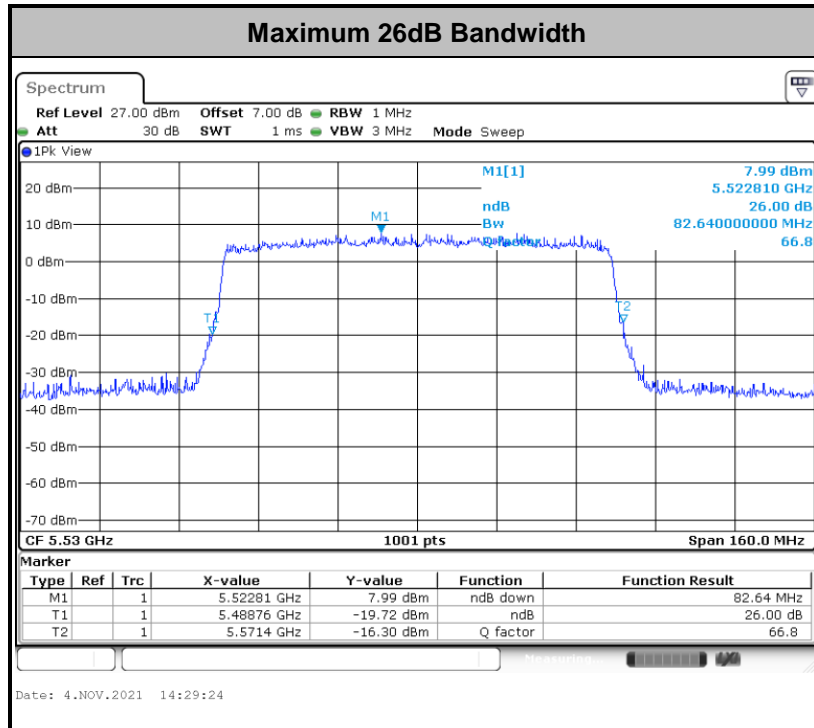


For 40MHz:



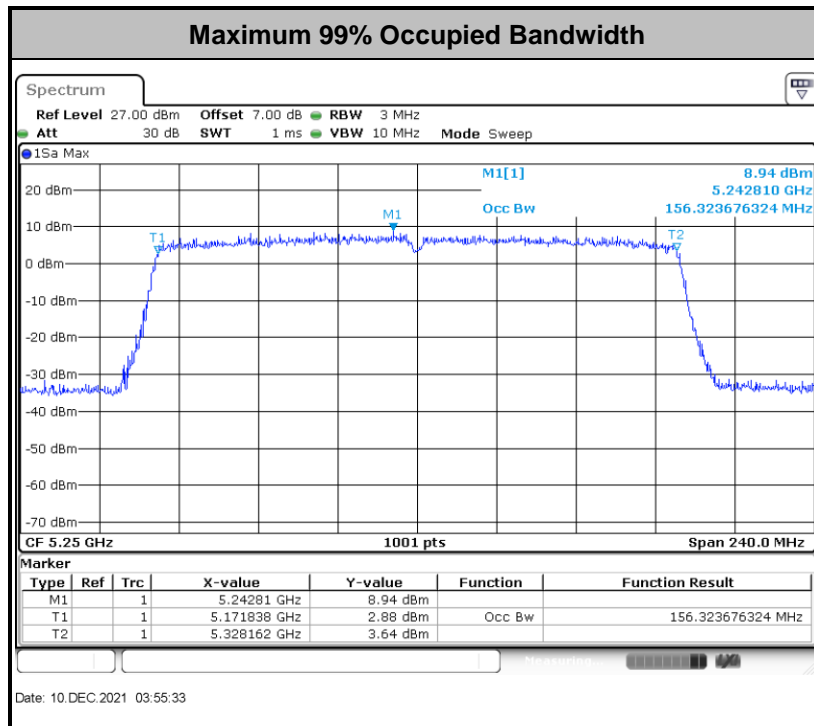
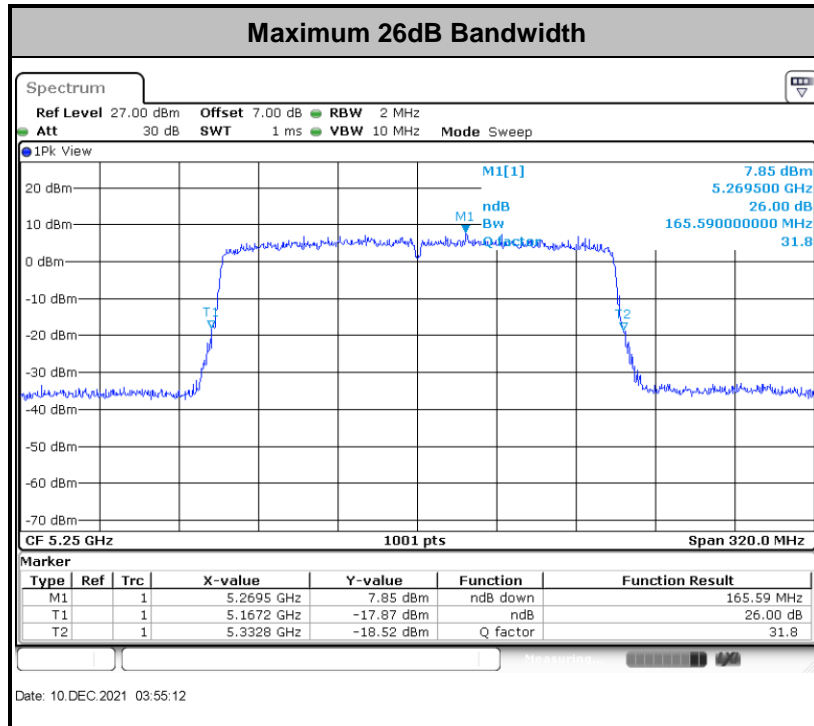


For 80MHz:





For 160MHz:



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 $11 + 10 \log B$, dBm, where B is the 26 dB emission bandwidth in megahertz.

For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% 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

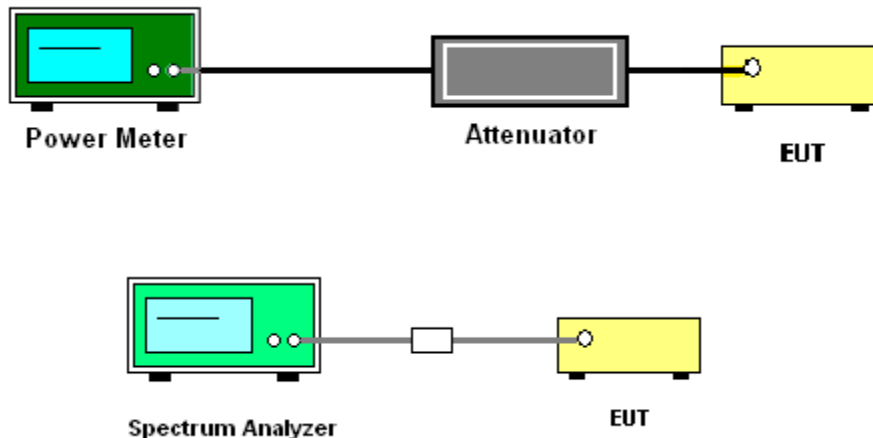
<CDD Modes>

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.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

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.

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.

<CDD Modes>

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. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

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

Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

Method (c): Measure and add $10 \log(N_{ANT})$ dB, where N_{ANT} is the number of outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The quantity $10 \log(N_{ANT})$ dB is added to each spectrum value before comparing to the emission limit.

3.3.4 Test Setup

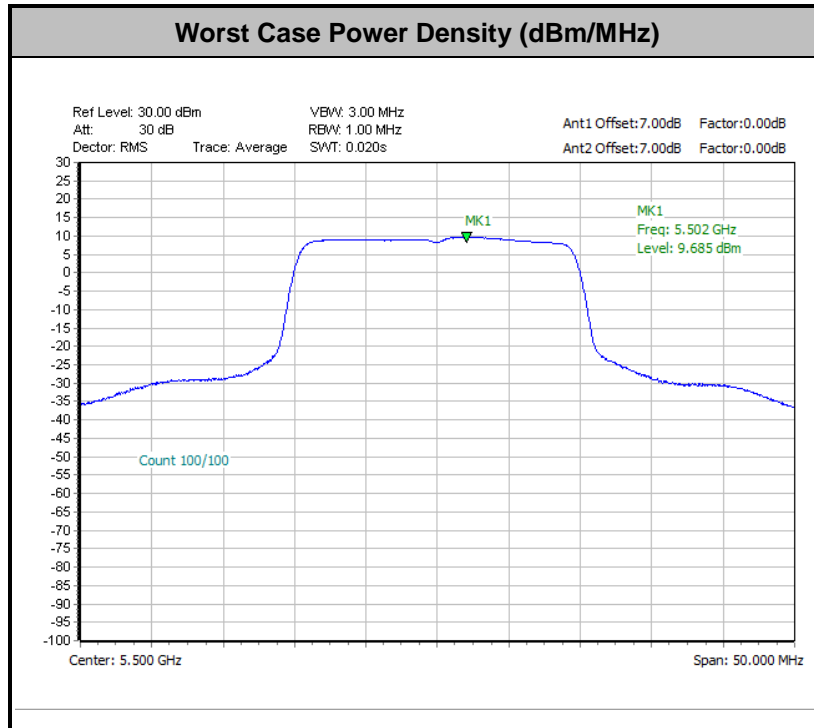


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



<CDD Modes>





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

3.4.2 Measuring Instruments

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

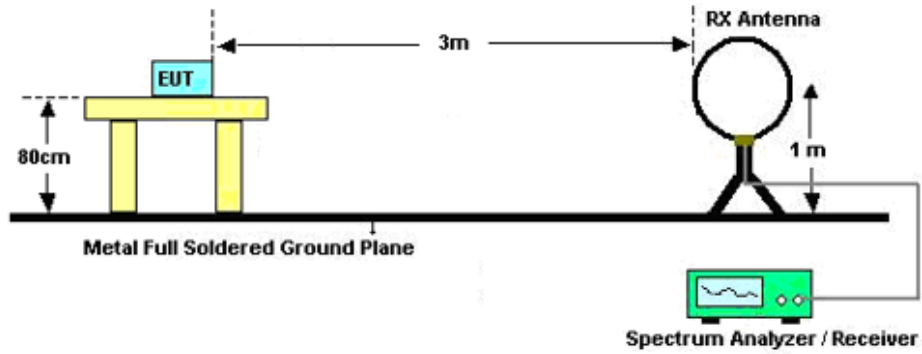


3.4.3 Test Procedures

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.

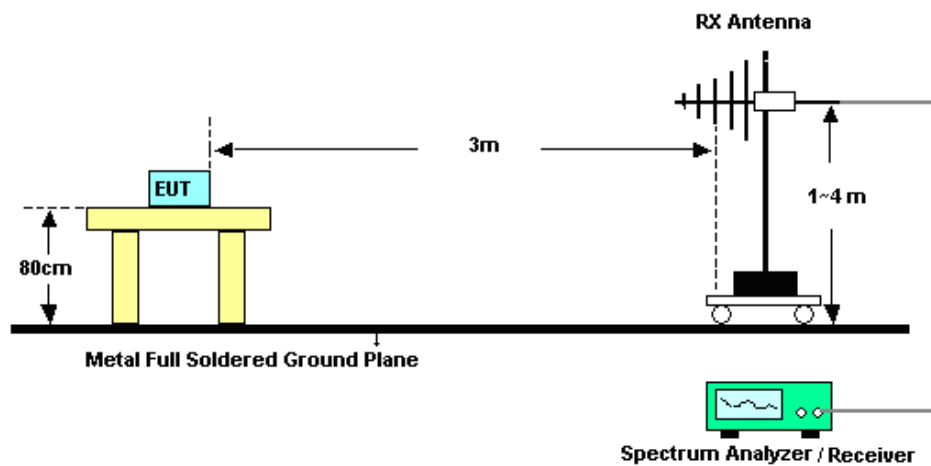
3.4.4 Test Setup

For radiated emissions below 30MHz



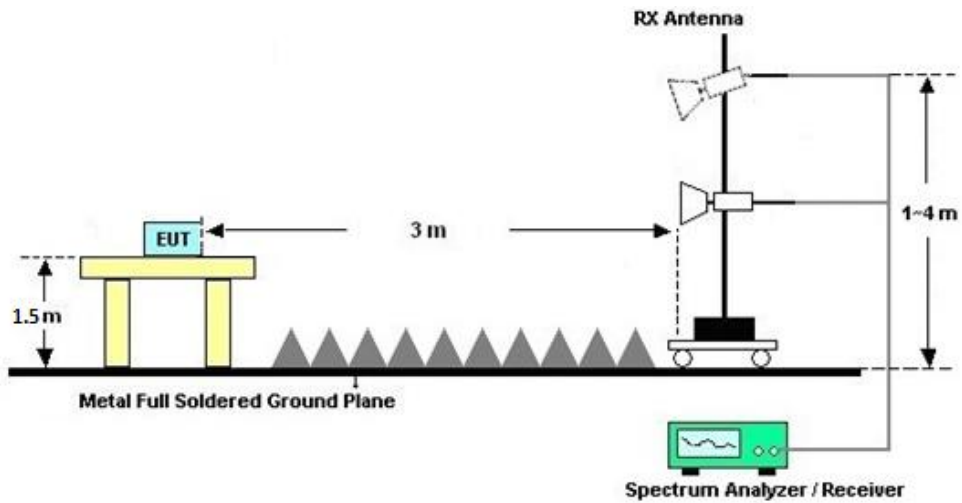
For radiated emissions from 30MHz to 1GHz

<CDD Mode>



For radiated emissions above 1GHz

<CDD Mode>



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

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

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

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

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

The EUT supports CDD mode.

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

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

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

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

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	-3.20	-3.20	-3.20	-0.19	0.00	0.00
Band II	-3.10	-3.10	-3.10	-0.09	0.00	0.00
Band III	-3.00	-3.00	-3.00	0.01	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Nov. 02, 2021~ Dec. 21, 2021	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 07, 2021	Nov. 02, 2021~ Dec. 21, 2021	Jan. 06, 2022	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 07, 2021	Nov. 02, 2021~ Dec. 21, 2021	Jan. 06, 2022	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 16, 2021	Nov. 23, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz, Max 30dB	Apr. 13, 2021	Nov. 23, 2021	Apr. 12, 2022	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Nov. 23, 2021	Oct. 29, 2022	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	Jun. 04, 2021	Nov. 23, 2021	Jun. 03, 2022	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 24, 2021	Nov. 23, 2021	Apr. 23, 2022	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 8, 2021	Nov. 23, 2021	Nov. 07, 2022	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	Apr. 12, 2021	Nov. 23, 2021	Apr. 11, 2022	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 07, 2021	Nov. 23, 2021	Jan. 06, 2022	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2012228	1GHz~18GHz	Oct. 16, 2021	Nov. 23, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5GHz	Oct. 16, 2021	Nov. 23, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 23, 2021	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 23, 2021	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 23, 2021	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 21, 2021	Nov. 30, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	Nov. 30, 2021	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 14, 2021	Nov. 30, 2021	Oct. 13, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	Nov. 30, 2021	Oct. 13, 2022	Conduction (CO01-KS)

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 Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.94dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

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

A1. Conducted Test Results

Test Engineer:	Jacob Zhang	Temperature:	21~25	°C
Test Date:	2021/11/2~2021/12/21	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	16.43	16.48	19.38	19.23	-	-	22.16		
11a	6Mbps	2	44	5220	16.43	16.48	19.48	20.08	-	-	22.16		
11a	6Mbps	2	48	5240	16.43	16.48	19.43	20.08	-	-	22.16		

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	17.31	17.46	20.40	24.00		-3.20	Pass	
11a	6Mbps	2	44	5220	17.75	17.88	20.83	24.00		-3.20	Pass	
11a	6Mbps	2	48	5240	17.85	18.01	20.94	24.00		-3.20	Pass	
HT20	MCS0	2	36	5180	17.71	17.77	20.75	24.00		-3.20	Pass	
HT20	MCS0	2	44	5220	17.56	17.94	20.76	24.00		-3.20	Pass	
HT20	MCS0	2	48	5240	17.64	17.91	20.79	24.00		-3.20	Pass	
HT40	MCS0	2	38	5190	16.91	17.01	19.97	24.00		-3.20	Pass	
HT40	MCS0	2	46	5230	16.79	17.05	19.93	24.00		-3.20	Pass	
VHT20	MCS0	2	36	5180	17.67	17.72	20.71	24.00		-3.20	Pass	
VHT20	MCS0	2	44	5220	17.52	17.91	20.73	24.00		-3.20	Pass	
VHT20	MCS0	2	48	5240	17.59	17.88	20.75	24.00		-3.20	Pass	
VHT40	MCS0	2	38	5190	16.82	16.89	19.87	24.00		-3.20	Pass	
VHT40	MCS0	2	46	5230	16.75	16.94	19.86	24.00		-3.20	Pass	
VHT80	MCS0	2	42	5210	15.52	15.91	18.73	24.00		-3.20	Pass	
VHT160	MCS0	2	50	5250	13.32	14.25	16.82	24.00		-3.20	Pass	

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180			8.68	11.00		-0.19		Pass
11a	6Mbps	2	44	5220			8.75	11.00		-0.19		Pass
11a	6Mbps	2	48	5240			8.83	11.00		-0.19		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	16.43	16.58	19.48	20.33	23.16		29.16		23.90		
11a	6Mbps	2	60	5300	16.43	16.58	19.38	20.33	23.16		29.16		23.87		
11a	6Mbps	2	64	5320	16.43	16.78	19.43	23.33	23.16		29.16		23.88		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	15.91	16.84	19.41	23.90		-3.10		26.99	Pass
11a	6Mbps	2	60	5300	15.97	16.98	19.51	23.87		-3.10		26.99	Pass
11a	6Mbps	2	64	5320	15.82	17.26	19.61	23.88		-3.10		26.99	Pass
HT20	MCS0	2	52	5260	15.82	16.62	19.25	23.98		-3.10		26.99	Pass
HT20	MCS0	2	60	5300	15.85	16.79	19.36	23.98		-3.10		26.99	Pass
HT20	MCS0	2	64	5320	15.63	17.11	19.44	23.98		-3.10		26.99	Pass
HT40	MCS0	2	54	5270	15.48	16.22	18.88	23.98		-3.10		26.99	Pass
HT40	MCS0	2	62	5310	15.35	16.55	19.00	23.98		-3.10		26.99	Pass
VHT20	MCS0	2	52	5260	15.84	16.69	19.30	23.98		-3.10		26.99	Pass
VHT20	MCS0	2	60	5300	15.89	16.85	19.41	23.98		-3.10		26.99	Pass
VHT20	MCS0	2	64	5320	15.71	17.15	19.50	23.98		-3.10		26.99	Pass
VHT40	MCS0	2	54	5270	15.49	16.24	18.89	23.98		-3.10		26.99	Pass
VHT40	MCS0	2	62	5310	15.37	16.58	19.03	23.98		-3.10		26.99	Pass
VHT80	MCS0	2	58	5290	15.48	16.17	18.85	23.98		-3.10		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260			7.85	11.00			-0.09	Pass
11a	6Mbps	2	60	5300			7.85	11.00			-0.09	Pass
11a	6Mbps	2	64	5320			8.02	11.00			-0.09	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	100	5500	16.43	16.83	19.53	23.38	23.16	23.16	29.16	23.91	---	---		
11a	6Mbps	2	116	5580	16.43	16.58	19.43	21.23	23.16	23.16	29.16	23.88	---	---		
11a	6Mbps	2	140	5700	16.48	16.48	19.28	19.33	23.17	23.17	29.17	23.85	---	---		

U-NII-2C straddle channel MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	144	5720	16.48	16.48	19.43	19.83	23.17	23.17	29.17	23.88	-	-		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	17.57	18.44	21.04	23.91		-3.00		26.99	Pass
11a	6Mbps	2	116	5580	17.79	18.30	21.06	23.88		-3.00		26.99	Pass
11a	6Mbps	2	140	5700	17.71	18.05	20.89	23.85		-3.00		26.99	Pass
HT20	MCS0	2	100	5500	17.41	18.38	20.93	23.98		-3.00		26.99	Pass
HT20	MCS0	2	116	5580	17.87	18.23	21.06	23.98		-3.00		26.99	Pass
HT20	MCS0	2	140	5700	17.59	17.84	20.73	23.98		-3.00		26.99	Pass
HT40	MCS0	2	102	5510	16.43	17.63	20.08	23.98		-3.00		26.99	Pass
HT40	MCS0	2	110	5550	16.85	17.51	20.20	23.98		-3.00		26.99	Pass
HT40	MCS0	2	134	5670	16.84	17.08	19.97	23.98		-3.00		26.99	Pass
VHT20	MCS0	2	100	5500	17.37	18.33	20.89	23.98		-3.00		26.99	Pass
VHT20	MCS0	2	116	5580	17.82	18.17	21.01	23.98		-3.00		26.99	Pass
VHT20	MCS0	2	140	5700	17.47	17.79	20.64	23.98		-3.00		26.99	Pass
VHT40	MCS0	2	102	5510	16.41	17.47	19.98	23.98		-3.00		26.99	Pass
VHT40	MCS0	2	110	5550	16.83	17.38	20.12	23.98		-3.00		26.99	Pass
VHT40	MCS0	2	134	5670	16.81	16.93	19.88	23.98		-3.00		26.99	Pass
VHT80	MCS0	2	106	5530	15.51	16.39	18.98	23.98		-3.00		26.99	Pass
VHT80	MCS0	2	122	5610	15.63	16.13	18.897	23.98		-3.00		26.99	Pass
VHT160	MCS0	2	114	5570	14.92	15.81	18.40	23.98		-3.00		26.99	Pass

FCC U-NII-2C straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	17.74	18.06	20.91	23.88		-3.00		26.99	Pass
HT20	MCS0	2	144	5720	17.65	17.92	20.80	23.98		-3.00		26.99	Pass
HT40	MCS0	2	142	5710	16.78	17.03	19.92	23.98		-3.00		26.99	Pass
VHT20	MCS0	2	144	5720	17.63	17.85	20.75	23.98		-3.00		26.99	Pass
VHT40	MCS0	2	142	5710	16.70	16.96	19.84	23.98		-3.00		26.99	Pass
VHT80	MCS0	2	138	5690	15.54	15.89	18.73	23.98		-3.00		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500			8.91	11.00	0.01		Pass	
11a	6Mbps	2	116	5580			8.78	11.00	0.01		Pass	
11a	6Mbps	2	140	5700			8.64	11.00	0.01		Pass	

U-NII-2C straddle channel MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	144	5720			8.67	11.00	0.01		Pass	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	17.78	17.83	20.82	24.00		-3.20		Pass
HE20	MCS0	2	36	5180	26/0	7.95	8.91	11.47	24.00		-3.20		Pass
HE20	MCS0	2	36	5180	52/37	11.11	12.01	14.59	24.00		-3.20		Pass
HE20	MCS0	2	36	5180	106/53	14.04	14.84	17.47	24.00		-3.20		Pass
HE20	MCS0	2	44	5220	Full	17.75	17.98	20.88	24.00		-3.20		Pass
HE20	MCS0	2	44	5220	26/4	9.05	9.20	12.14	24.00		-3.20		Pass
HE20	MCS0	2	44	5220	52/38	11.01	12.07	14.58	24.00		-3.20		Pass
HE20	MCS0	2	44	5220	106/53	13.68	14.84	17.31	24.00		-3.20		Pass
HE20	MCS0	2	48	5240	Full	17.67	17.95	20.82	24.00		-3.20		Pass
HE20	MCS0	2	48	5240	26/8	8.04	8.87	11.49	24.00		-3.20		Pass
HE20	MCS0	2	48	5240	52/40	11.45	11.77	14.62	24.00		-3.20		Pass
HE20	MCS0	2	48	5240	106/54	14.74	15.03	17.90	24.00		-3.20		Pass
HE40	MCS0	2	38	5190	Full	16.94	17.05	20.01	24.00		-3.20		Pass
HE40	MCS0	2	38	5190	242/61	13.48	14.17	16.85	24.00		-3.20		Pass
HE40	MCS0	2	46	5230	Full	16.83	17.07	19.96	24.00		-3.20		Pass
HE40	MCS0	2	46	5230	242/62	13.42	14.33	16.91	24.00		-3.20		Pass
HE80	MCS0	2	42	5210	Full	15.58	15.95	18.78	24.00		-3.20		Pass
HE80	MCS0	2	42	5210	484/65	12.18	12.60	15.41	24.00		-3.20		Pass
HE160	MCS0	2	50	5250	Full	13.62	14.12	16.89	24.00		-3.20		Pass
HE160	MCS0	2	50	5250	996/67	10.53	11.51	14.05	24.00		-3.20		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full			9.09	11.00		-0.19		Pass
HE20	MCS0	2	36	5180	26/0			8.72	11.00		-0.19		Pass
HE20	MCS0	2	36	5180	52/37			8.87	11.00		-0.19		Pass
HE20	MCS0	2	36	5180	106/53			8.99	11.00		-0.19		Pass
HE20	MCS0	2	44	5220	Full			9.11	11.00		-0.19		Pass
HE20	MCS0	2	44	5220	26/4			8.47	11.00		-0.19		Pass
HE20	MCS0	2	44	5220	52/38			8.89	11.00		-0.19		Pass
HE20	MCS0	2	44	5220	106/53			9.08	11.00		-0.19		Pass
HE20	MCS0	2	48	5240	Full			9.24	11.00		-0.19		Pass
HE20	MCS0	2	48	5240	26/8			8.74	11.00		-0.19		Pass
HE20	MCS0	2	48	5240	52/40			9.23	11.00		-0.19		Pass
HE20	MCS0	2	48	5240	106/54			9.21	11.00		-0.19		Pass
HE40	MCS0	2	38	5190	Full			4.91	11.00		-0.19		Pass
HE40	MCS0	2	38	5190	242/61			4.45	11.00		-0.19		Pass
HE40	MCS0	2	46	5230	Full			4.88	11.00		-0.19		Pass
HE40	MCS0	2	46	5230	242/62			4.50	11.00		-0.19		Pass
HE80	MCS0	2	42	5210	Full			0.22	11.00		-0.19		Pass
HE80	MCS0	2	42	5210	484/65			-0.01	11.00		-0.19		Pass
HE160	MCS0	2	50	5250	Full			-3.57	11.00		-0.19		Pass
HE160	MCS0	2	50	5250	996/67			-3.95	11.00		-0.19		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	52	5260	Full	18.98	19.03	21.28	21.53	23.78	23.78	29.78	29.78	23.98		
HE20	MCS0	2	60	5300	Full	18.98	19.28	21.23	23.88	23.78	23.78	29.78	29.78	23.98		
HE20	MCS0	2	64	5320	Full	18.98	19.18	21.13	21.93	23.78	23.78	29.78	29.78	23.98		
HE40	MCS0	2	54	5270	Full	37.96	38.16	40.46	40.82	23.98	23.98	30.00	30.00	23.98		
HE40	MCS0	2	62	5310	Full	37.96	38.06	40.28	40.73	23.98	23.98	30.00	30.00	23.98		
HE80	MCS0	2	58	5290	Full	77.20	77.20	82.16	82.32	23.98	23.98	30.00	30.00	23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	52	5260	Full	15.86	16.72	19.32	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	52	5260	26/0	5.77	6.82	9.34	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	52	5260	52/37	8.53	10.03	12.35	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	52	5260	106/53	10.97	12.73	14.95	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	60	5300	Full	15.91	16.89	19.44	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	60	5300	26/4	6.64	8.39	10.61	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	60	5300	52/38	8.42	10.15	12.38	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	60	5300	106/53	10.92	12.88	15.02	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	64	5320	Full	15.75	17.21	19.55	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	64	5320	26/8	5.94	7.03	9.53	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	64	5320	52/40	8.58	10.35	12.56	23.98		-3.10	26.99	Pass	
HE20	MCS0	2	64	5320	106/54	11.89	13.22	15.62	23.98		-3.10	26.99	Pass	
HE40	MCS0	2	54	5270	Full	15.55	16.28	18.94	23.98		-3.10	26.99	Pass	
HE40	MCS0	2	54	5270	242/61	10.73	12.09	14.47	23.98		-3.10	26.99	Pass	
HE40	MCS0	2	62	5310	Full	15.42	16.61	19.07	23.98		-3.10	26.99	Pass	
HE40	MCS0	2	62	5310	242/62	11.19	12.56	14.94	23.98		-3.10	26.99	Pass	
HE80	MCS0	2	58	5290	Full	15.53	16.19	18.88	23.98		-3.10	26.99	Pass	
HE80	MCS0	2	58	5290	484/66	12.22	13.30	15.81	23.98		-3.10	26.99	Pass	
HE160	MCS0	2	50	5250	996/S67	10.37	11.27	13.85	23.98		-3.10	26.99	Pass	

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	52	5260	Full			7.24	11.00		-0.09		Pass
HE20	MCS0	2	52	5260	26/0			6.95	11.00		-0.09		Pass
HE20	MCS0	2	52	5260	52/37			7.05	11.00		-0.09		Pass
HE20	MCS0	2	52	5260	106/53			6.80	11.00		-0.09		Pass
HE20	MCS0	2	60	5300	Full			7.21	11.00		-0.09		Pass
HE20	MCS0	2	60	5300	26/4			7.11	11.00		-0.09		Pass
HE20	MCS0	2	60	5300	52/38			7.14	11.00		-0.09		Pass
HE20	MCS0	2	60	5300	106/53			6.78	11.00		-0.09		Pass
HE20	MCS0	2	64	5320	Full			7.48	11.00		-0.09		Pass
HE20	MCS0	2	64	5320	26/8			7.01	11.00		-0.09		Pass
HE20	MCS0	2	64	5320	52/40			7.19	11.00		-0.09		Pass
HE20	MCS0	2	64	5320	106/54			7.35	11.00		-0.09		Pass
HE40	MCS0	2	54	5270	Full			3.83	11.00		-0.09		Pass
HE40	MCS0	2	54	5270	242/61			2.72	11.00		-0.09		Pass
HE40	MCS0	2	62	5310	Full			3.90	11.00		-0.09		Pass
HE40	MCS0	2	62	5310	242/62			3.15	11.00		-0.09		Pass
HE80	MCS0	2	58	5290	Full			0.52	11.00		-0.09		Pass
HE80	MCS0	2	58	5290	484/66			0.26	11.00		-0.09		Pass
HE160	MCS0	2	50	5250	996/S67			-4.29	11.00		-0.09		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	100	5500	Full	18.98	19.23	21.28	23.03	23.78	23.78	29.78	29.78	23.98	23.98	----	----
HE20	MCS0	2	116	5580	Full	18.98	19.08	21.28	22.03	23.78	23.78	29.78	29.78	23.98	23.98	----	----
HE20	MCS0	2	140	5700	Full	18.93	18.98	21.13	21.18	23.77	23.77	29.77	29.77	23.98	23.98	----	----
HE40	MCS0	2	102	5510	Full	37.96	38.16	40.64	40.91	23.98	23.98	30.00	30.00	23.98	23.98	----	----
HE40	MCS0	2	110	5550	Full	38.06	38.16	40.82	40.55	23.98	23.98	30.00	30.00	23.98	23.98	----	----
HE40	MCS0	2	134	5670	Full	37.96	38.06	40.46	40.82	23.98	23.98	30.00	30.00	23.98	23.98	----	----
HE80	MCS0	2	106	5530	Full	77.20	77.20	82.64	82.00	23.98	23.98	30.00	30.00	23.98	23.98	----	----
HE80	MCS0	2	122	5610	Full	77.20	77.32	82.00	82.48	23.98	23.98	30.00	30.00	23.98	23.98	----	----
HE160	MCS0	2	114	5570	Full	156.08	156.08	165.59	164.96	23.98	23.98	30.00	30.00	23.98	23.98	----	----
U-NII-2C straddle channel MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	144	5720	Full	18.98	18.98	21.18	21.63	23.78	23.78	29.78	29.78	23.98	23.98	-	-
HE40	MCS0	2	142	5710	Full	37.96	37.96	40.37	40.46	23.98	23.98	30.00	30.00	23.98	23.98	-	-
HE80	MCS0	2	138	5690	Full	77.32	77.20	82.64	82.32	23.98	23.98	30.00	30.00	23.98	23.98	-	-

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	100	5500	Full	17.44	18.42	20.97	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	100	5500	26/0	8.66	9.94	12.36	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	100	5500	52/37	11.54	12.41	15.01	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	100	5500	106/53	14.13	15.26	17.74	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	116	5580	Full	17.89	18.28	21.10	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	116	5580	26/4	9.34	9.87	12.62	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	116	5580	52/38	11.50	11.67	14.60	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	116	5580	106/53	14.04	14.71	17.40	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	140	5700	Full	17.63	17.95	20.80	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	140	5700	26/8	7.54	9.04	11.36	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	140	5700	52/40	10.64	11.51	14.11	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	140	5700	106/54	13.59	14.55	17.11	23.98		-3.00	26.99	Pass	
HE40	MCS0	2	102	5510	Full	16.47	17.64	20.10	23.98		-3.00	26.99	Pass	
HE40	MCS0	2	102	5510	242/61	14.05	15.26	17.71	23.98		-3.00	26.99	Pass	
HE40	MCS0	2	110	5550	Full	16.87	17.52	20.22	23.98		-3.00	26.99	Pass	
HE40	MCS0	2	110	5550	242/61	13.44	14.63	17.09	23.98		-3.00	26.99	Pass	
HE40	MCS0	2	134	5670	Full	16.88	17.11	20.01	23.98		-3.00	26.99	Pass	
HE40	MCS0	2	134	5670	242/62	13.63	14.15	16.91	23.98		-3.00	26.99	Pass	
HE80	MCS0	2	106	5530	Full	15.55	16.41	19.01	23.98		-3.00	26.99	Pass	
HE80	MCS0	2	106	5530	484/65	11.62	12.60	15.15	23.98		-3.00	26.99	Pass	
HE80	MCS0	2	122	5610	Full	15.64	16.16	18.92	23.98		-3.00	26.99	Pass	
HE80	MCS0	2	122	5610	484/66	12.22	12.45	15.35	23.98		-3.00	26.99	Pass	
HE160	MCS0	2	114	5570	Full	14.97	15.84	18.44	23.98		-3.00	26.99	Pass	
HE160	MCS0	2	114	5570	996/67	12.15	13.28	15.76	23.98		-3.00	26.99	Pass	
HE160	MCS0	2	114	5570	996/S67	11.44	12.53	15.02	23.98		-3.00	26.99	Pass	

FCC U-NII-2C straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	144	5720	Full	17.69	18.03	20.87	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	144	5720	26/8	8.16	9.46	11.87	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	144	5720	52/40	11.16	11.98	14.60	23.98		-3.00	26.99	Pass	
HE20	MCS0	2	144	5720	106/54	14.26	14.84	17.57	23.98		-3.00	26.99	Pass	
HE40	MCS0	2	142	5710	Full	16.81	17.07	19.95	23.98		-3.00	26.99	Pass	
HE40	MCS0	2	142	5710	242/62	13.09	13.81	16.48	23.98		-3.00	26.99	Pass	
HE80	MCS0	2	138	5690	Full	15.57	15.93	18.76	23.98		-3.00	26.99	Pass	
HE80	MCS0	2	138	5690	484/66	11.90	12.41	15.18	23.98		-3.00	26.99	Pass	

TEST RESULTS DATA
Power Spectral Density

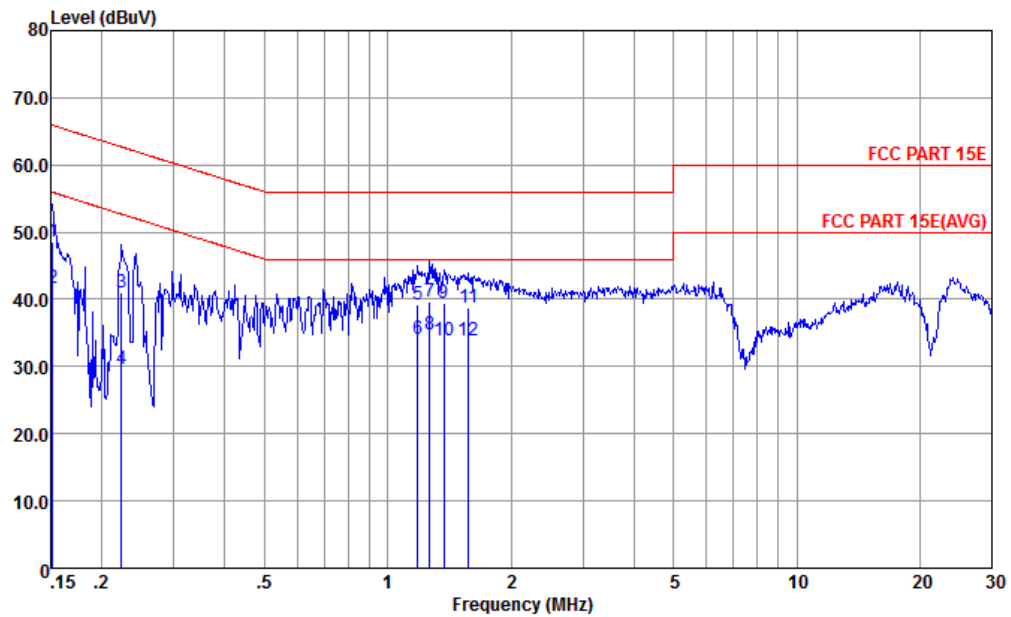
U-NII-2C MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	100	5500	Full			9.69	11.00	0.01		Pass	
HE20	MCS0	2	100	5500	26/0			9.59	11.00	0.01		Pass	
HE20	MCS0	2	100	5500	52/37			9.54	11.00	0.01		Pass	
HE20	MCS0	2	100	5500	106/53			9.45	11.00	0.01		Pass	
HE20	MCS0	2	116	5580	Full			9.22	11.00	0.01		Pass	
HE20	MCS0	2	116	5580	26/4			8.78	11.00	0.01		Pass	
HE20	MCS0	2	116	5580	52/38			9.20	11.00	0.01		Pass	
HE20	MCS0	2	116	5580	106/53			9.18	11.00	0.01		Pass	
HE20	MCS0	2	140	5700	Full			8.89	11.00	0.01		Pass	
HE20	MCS0	2	140	5700	26/8			8.53	11.00	0.01		Pass	
HE20	MCS0	2	140	5700	52/40			8.55	11.00	0.01		Pass	
HE20	MCS0	2	140	5700	106/54			8.55	11.00	0.01		Pass	
HE40	MCS0	2	102	5510	Full			6.20	11.00	0.01		Pass	
HE40	MCS0	2	102	5510	242/61			5.38	11.00	0.01		Pass	
HE40	MCS0	2	110	5550	Full			4.84	11.00	0.01		Pass	
HE40	MCS0	2	110	5550	242/61			4.64	11.00	0.01		Pass	
HE40	MCS0	2	134	5670	Full			4.62	11.00	0.01		Pass	
HE40	MCS0	2	134	5670	242/62			4.48	11.00	0.01		Pass	
HE80	MCS0	2	106	5530	Full			0.36	11.00	0.01		Pass	
HE80	MCS0	2	106	5530	484/65			-0.19	11.00	0.01		Pass	
HE80	MCS0	2	122	5610	Full			0.32	11.00	0.01		Pass	
HE80	MCS0	2	122	5610	484/66			-0.14	11.00	0.01		Pass	
HE160	MCS0	2	114	5570	Full			-2.58	11.00	0.01		Pass	
HE160	MCS0	2	114	5570	996/67			-2.67	11.00	0.01		Pass	
HE160	MCS0	2	114	5570	996/S67			-2.87	11.00	0.01		Pass	

U-NII-2C straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	144	5720	Full			9.15	11.00	0.01		Pass	
HE20	MCS0	2	144	5720	26/8			8.99	11.00	0.01		Pass	
HE20	MCS0	2	144	5720	52/40			9.13	11.00	0.01		Pass	
HE20	MCS0	2	144	5720	106/54			9.07	11.00	0.01		Pass	
HE40	MCS0	2	142	5710	Full			4.15	11.00	0.01		Pass	
HE40	MCS0	2	142	5710	242/62			4.09	11.00	0.01		Pass	
HE80	MCS0	2	138	5690	Full			-0.05	11.00	0.01		Pass	
HE80	MCS0	2	138	5690	484/66			-0.21	11.00	0.01		Pass	



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

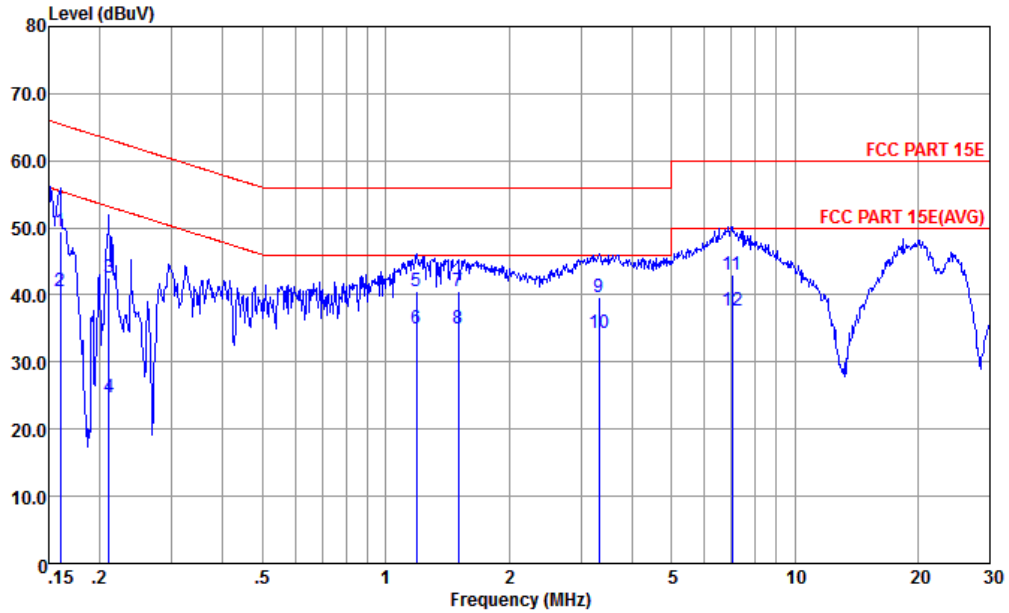


Site : CO01-KS
 Condition : FCC PART 15E LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.152	48.60	-17.31	65.91	38.10	0.02	10.48	QP
2	0.152	41.70	-14.21	55.91	31.20	0.02	10.48	Average
3	0.223	41.00	-21.70	62.70	30.60	0.05	10.35	QP
4	0.223	29.70	-23.00	52.70	19.30	0.05	10.35	Average
5	1.184	39.26	-16.74	56.00	28.90	0.13	10.23	QP
6	1.184	34.06	-11.94	46.00	23.70	0.13	10.23	Average
7	1.269	39.57	-16.43	56.00	29.21	0.13	10.23	QP
8 *	1.269	34.67	-11.33	46.00	24.31	0.13	10.23	Average
9	1.374	39.47	-16.53	56.00	29.11	0.13	10.23	QP
10	1.374	33.87	-12.13	46.00	23.51	0.13	10.23	Average
11	1.577	38.67	-17.33	56.00	28.30	0.14	10.23	QP
12	1.577	33.97	-12.03	46.00	23.60	0.14	10.23	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : FCC PART 15E LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.160	49.46	-16.01	65.47	38.90	0.11	10.45	QP
2	0.160	40.46	-15.01	55.47	29.90	0.11	10.45	Average
3	0.211	42.56	-20.62	63.18	32.10	0.10	10.36	QP
4	0.211	24.66	-28.52	53.18	14.20	0.10	10.36	Average
5	1.191	40.56	-15.44	56.00	30.21	0.12	10.23	QP
6	1.191	34.96	-11.04	46.00	24.61	0.12	10.23	Average
7	1.503	40.56	-15.44	56.00	30.20	0.13	10.23	QP
8 *	1.503	34.96	-11.04	46.00	24.60	0.13	10.23	Average
9	3.328	39.70	-16.30	56.00	29.29	0.16	10.25	QP
10	3.328	34.30	-11.70	46.00	23.89	0.16	10.25	Average
11	7.025	43.10	-16.90	60.00	32.60	0.20	10.30	QP
12	7.025	37.60	-12.40	50.00	27.10	0.20	10.30	Average

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	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5136	58.19	-15.81	74	46.14	35.01	11.58	34.54	247	308	P	H
		5150	47.11	-6.89	54	34.92	35.03	11.6	34.44	247	308	A	H
	*	5182	109.28	-	-	96.92	35.06	11.63	34.33	247	308	P	H
		5182	102.01	-	-	89.65	35.06	11.63	34.33	247	308	A	H
		5141.92	57.52	-16.48	74	45.33	35.03	11.6	34.44	178	319	P	V
		5146.72	45.88	-8.12	54	33.69	35.03	11.6	34.44	178	319	A	V
	*	5176	106.78	-	-	94.42	35.06	11.63	34.33	178	319	P	V
		5176	99.22	-	-	86.86	35.06	11.63	34.33	178	319	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10358.36	44.37	-23.93	68.3	49.8	38.32	16.93	60.68	300	0	P	H
		10358.36	44.25	-24.05	68.3	49.68	38.32	16.93	60.68	300	0	P	V
802.11a CH 44 5220MHz		10438.44	44.81	-23.49	68.3	50.09	38.35	17.03	60.66	300	0	P	H
		10438.44	44.71	-23.59	68.3	49.99	38.35	17.03	60.66	300	0	P	V
802.11a CH 48 5240MHz		10478.47	45.15	-23.15	68.3	50.35	38.36	17.09	60.65	300	0	P	H
		10478.47	44.4	-23.9	68.3	49.6	38.36	17.09	60.65	300	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 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Full CH 36 5180MHz		5150	68.16	-5.84	74	55.97	35.03	11.6	34.44	249	309	P	H
		5150	49.61	-4.39	54	37.42	35.03	11.6	34.44	249	309	A	H
	*	5182	111.86	-	-	99.5	35.06	11.63	34.33	249	309	P	H
		5182	102.17	-	-	89.81	35.06	11.63	34.33	249	309	A	H
		5142.4	60.5	-13.5	74	48.31	35.03	11.6	34.44	166	316	P	V
		5150	47.03	-6.97	54	34.84	35.03	11.6	34.44	166	316	A	V
	*	5182	106.84	-	-	94.48	35.06	11.63	34.33	166	316	P	V
		5182	98.86	-	-	86.5	35.06	11.63	34.33	166	316	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Full CH 36 5180MHz		10358.36	44.7	-23.6	68.3	50.13	38.32	16.93	60.68	300	0	P	H
		10358.36	44.08	-24.22	68.3	49.51	38.32	16.93	60.68	300	0	P	V
802.11ax HE20 Full CH 44 5220MHz		10438.44	44.7	-23.6	68.3	49.98	38.35	17.03	60.66	300	0	P	H
		10438.44	44.33	-23.97	68.3	49.61	38.35	17.03	60.66	300	0	P	V
802.11ax HE20 Full CH 48 5240MHz		10478.47	45.41	-22.89	68.3	50.61	38.36	17.09	60.65	300	0	P	H
		10478.47	44.43	-23.87	68.3	49.63	38.36	17.09	60.65	300	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 802.11ax HE20 Partial 26 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 5+6, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 data for 802.11ax HE20 Partial 26/0 CH 36 5180MHz and 802.11ax HE20 Partial 26/8 CH 48 5240MHz.

Remark
1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



Band 1 5150~5250MHz
WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Partial 52/37 CH 36 5180MHz		5111.36	54.72	-19.28	74	42.8	35	11.56	34.64	251	317	P	H
		5105.92	44.25	-9.75	54	32.33	35	11.56	34.64	251	317	A	H
		5170	109.63	-	-	97.3	35.05	11.61	34.33	251	317	P	H
		5170	101.67	-	-	89.34	35.05	11.61	34.33	251	317	A	H
		5120.64	55.02	-18.98	74	43	35	11.56	34.54	111	333	P	V
		5101.44	44.24	-9.76	54	32.36	34.98	11.54	34.64	111	333	A	V
		5170	105.96	-	-	93.63	35.05	11.61	34.33	111	333	P	V
		5170	98.92	-	-	86.59	35.05	11.61	34.33	111	333	A	V
802.11ax HE20 Partial 52/40 CH 48 5240MHz		5383.08	54.19	-19.81	74	40.62	35.26	11.84	33.53	171	315	P	H
		5399.46	44.54	-9.46	54	30.94	35.27	11.86	33.53	171	315	A	H
		5248	113.82	-	-	101.02	35.13	11.7	34.03	171	315	P	H
		5248	103.22	-	-	90.42	35.13	11.7	34.03	171	315	A	H
		5379.12	55.49	-18.51	74	41.92	35.26	11.84	33.53	122	11	P	V
		5400	44.48	-9.52	54	30.88	35.27	11.86	33.53	122	11	A	V
		5248	109.74	-	-	96.94	35.13	11.7	34.03	122	11	P	V
		5248	101.09	-	-	88.29	35.13	11.7	34.03	122	11	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Partial 106/53 CH 36 5180MHz		5129.76	55.47	-18.53	74	43.42	35.01	11.58	34.54	192	300	P	H
		5101.12	44.31	-9.69	54	32.43	34.98	11.54	34.64	192	300	A	H
		5170	108.85	-	-	96.52	35.05	11.61	34.33	192	300	P	H
		5170	101.23	-	-	88.9	35.05	11.61	34.33	192	300	A	H
		5123.84	54.74	-19.26	74	42.69	35.01	11.58	34.54	299	298	P	V
		5100.96	44.18	-9.82	54	32.3	34.98	11.54	34.64	299	298	A	V
		5176	106.45	-	-	94.09	35.06	11.63	34.33	299	298	P	V
		5176	98.76	-	-	86.4	35.06	11.63	34.33	299	298	A	V
802.11ax HE20 Partial 106/54 CH 48 5240MHz		5395.32	55.06	-18.94	74	41.46	35.27	11.86	33.53	174	302	P	H
		5396.4	44.51	-9.49	54	30.91	35.27	11.86	33.53	174	302	A	H
		5248	109.05	-	-	96.25	35.13	11.7	34.03	174	302	P	H
		5248	100.84	-	-	88.04	35.13	11.7	34.03	174	302	A	H
		5397.3	54.86	-19.14	74	41.26	35.27	11.86	33.53	156	50	P	V
		5399.82	44.49	-9.51	54	30.89	35.27	11.86	33.53	156	50	A	V
		5248	107.51	-	-	94.71	35.13	11.7	34.03	156	50	P	V
		5248	99.88	-	-	87.08	35.13	11.7	34.03	156	50	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE40 Full CH 38 5190MHz		5140.32	61.66	-12.34	74	49.57	35.03	11.6	34.54	251	306	P	H
		5150	49.93	-4.07	54	37.74	35.03	11.6	34.44	251	306	A	H
	*	5182	107.46	-	-	95.1	35.06	11.63	34.33	251	306	P	H
		5182	97.96	-	-	85.6	35.06	11.63	34.33	251	306	A	H
		5375.16	54.9	-19.1	74	41.37	35.24	11.82	33.53	251	306	P	H
		5398.56	44.66	-9.34	54	31.06	35.27	11.86	33.53	251	306	A	H
		5144.48	58.01	-15.99	74	45.82	35.03	11.6	34.44	209	321	P	V
		5150	46.64	-7.36	54	34.45	35.03	11.6	34.44	209	321	A	V
	*	5176	102.86	-	-	90.5	35.06	11.63	34.33	209	321	P	V
		5176	94.43	-	-	82.07	35.06	11.63	34.33	209	321	A	V
		5386.5	54.51	-19.49	74	40.94	35.26	11.84	33.53	209	321	P	V
		5399.46	44.46	-9.54	54	30.86	35.27	11.86	33.53	209	321	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE40 Full CH 38 5190MHz		10378.38	45.63	-22.67	68.3	51	38.33	16.97	60.67	300	0	P	H
		10378.38	45.54	-22.76	68.3	50.91	38.33	16.97	60.67	300	0	P	V
802.11ax HE40 Full CH 46 5230MHz		10458.46	44.18	-24.12	68.3	49.44	38.35	17.05	60.66	300	0	P	H
		10458.46	44.21	-24.09	68.3	49.47	38.35	17.05	60.66	300	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 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE40 Partial 242/61 CH 38 5190MHz		5140.16	58.11	-15.89	74	46.02	35.03	11.6	34.54	180	303	P	H
		5149.76	44.34	-9.66	54	32.15	35.03	11.6	34.44	180	303	A	H
		5182	108.15	-	-	95.79	35.06	11.63	34.33	180	303	P	H
		5182	98.17	-	-	85.81	35.06	11.63	34.33	180	303	A	H
		5369.58	54.36	-19.64	74	40.93	35.24	11.82	33.63	180	303	P	H
		5399.46	44.35	-9.65	54	30.75	35.27	11.86	33.53	180	303	A	H
		5141.76	56.59	-17.41	74	44.4	35.03	11.6	34.44	175	312	P	V
		5100.48	44.15	-9.85	54	32.27	34.98	11.54	34.64	175	312	A	V
		5182	104.73	-	-	92.37	35.06	11.63	34.33	175	312	P	V
		5182	95.42	-	-	83.06	35.06	11.63	34.33	175	312	A	V
		5391.9	53.84	-20.16	74	40.27	35.26	11.84	33.53	175	312	P	V
		5399.28	44.29	-9.71	54	30.69	35.27	11.86	33.53	175	312	A	V
802.11ax HE40 Partial 242/62 CH 46 5230MHz		5143.36	54.53	-19.47	74	42.34	35.03	11.6	34.44	183	306	P	H
		5104.64	44.27	-9.73	54	32.39	34.98	11.54	34.64	183	306	A	H
		5230	108.16	-	-	95.5	35.11	11.68	34.13	183	306	P	H
		5230	98.15	-	-	85.49	35.11	11.68	34.13	183	306	A	H
		5369.4	54.15	-19.85	74	40.72	35.24	11.82	33.63	183	306	P	H
		5399.28	44.54	-9.46	54	30.94	35.27	11.86	33.53	183	306	A	H
		5145.12	54.45	-19.55	74	42.26	35.03	11.6	34.44	127	311	P	V
		5105.6	44.19	-9.81	54	32.27	35	11.56	34.64	127	311	A	V
		5242	103.32	-	-	90.62	35.13	11.7	34.13	127	311	P	V
		5242	95.44	-	-	82.74	35.13	11.7	34.13	127	311	A	V
		5399.46	53.82	-20.18	74	40.22	35.27	11.86	33.53	127	311	P	V
		5397.66	44.46	-9.54	54	30.86	35.27	11.86	33.53	127	311	A	V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



Band 1 5150~5250MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE80 Full CH 42 5210MHz		5143.2	57.9	-16.1	74	45.71	35.03	11.6	34.44	246	313	P	H
		5141.44	47.62	-6.38	54	35.43	35.03	11.6	34.44	246	313	A	H
	*	5212	103.1	-	-	90.57	35.09	11.67	34.23	246	313	P	H
		5212	93.76	-	-	81.23	35.09	11.67	34.23	246	313	A	H
		5360.22	54.9	-19.1	74	41.51	35.22	11.8	33.63	246	313	P	H
		5393.16	44.82	-9.18	54	31.25	35.26	11.84	33.53	246	313	A	H
		5123.84	56.18	-17.82	74	44.13	35.01	11.58	34.54	163	317	P	V
		5142.08	46.92	-7.08	54	34.73	35.03	11.6	34.44	163	317	A	V
	*	5212	101.09	-	-	88.56	35.09	11.67	34.23	163	317	P	V
		5212	91.54	-	-	79.01	35.09	11.67	34.23	163	317	A	V
		5379.48	54.31	-19.69	74	40.74	35.26	11.84	33.53	163	317	P	V
		5397.12	44.58	-9.42	54	30.98	35.27	11.86	33.53	163	317	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE80 Full CH 42 5210MHz		10418.42	45.8	-22.5	68.3	51.12	38.34	17.01	60.67	300	0	P	H
		10418.42	45.18	-23.12	68.3	50.5	38.34	17.01	60.67	300	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 802.11ax HE80 Partial 484 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 5+6, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 frequency data for 802.11ax HE80 Partial 484/65 CH 42 5210MHz and a Remark section.



Band 1 5150~5250MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE160 Full CH 50 5250MHz		5150	60.6	-13.4	74	48.41	35.03	11.6	34.44	166	302	P	H
		5149.6	50.02	-3.98	54	37.83	35.03	11.6	34.44	166	302	A	H
	*	5212	100.04	-	-	87.51	35.09	11.67	34.23	166	302	P	H
		5212	91.12	-	-	78.59	35.09	11.67	34.23	166	302	A	H
		5372.8	60.44	-13.56	74	47.01	35.24	11.82	33.63	166	302	P	H
		5351.2	50.6	-3.4	54	37.21	35.22	11.8	33.63	166	302	A	H
		5116.64	57.19	-16.81	74	45.17	35	11.56	34.54	283	258	P	V
		5145.6	46.35	-7.65	54	34.16	35.03	11.6	34.44	283	258	A	V
	*	5224	98.03	-	-	85.4	35.09	11.67	34.13	283	258	P	V
		5224	88.06	-	-	75.43	35.09	11.67	34.13	283	258	A	V
	5397.9	57.82	-16.18	74	44.22	35.27	11.86	33.53	283	258	P	V	
	5398.3	47.29	-6.71	54	33.69	35.27	11.86	33.53	283	258	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE160 Full CH 50 5250MHz		10498.5	44.33	-23.97	68.3	49.5	38.37	17.11	60.65	300	0	P	H
		10498.5	45.07	-23.23	68.3	50.24	38.37	17.11	60.65	300	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 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE160 Partial 996/67 CH 50 5250MHz		5135.2	67.32	-6.68	74	55.27	35.01	11.58	34.54	183	303	P	H
		5149.44	46.4	-7.6	54	34.21	35.03	11.6	34.44	183	303	A	H
		5188	100.24	-	-	87.88	35.06	11.63	34.33	183	303	P	H
		5188	91.76	-	-	79.4	35.06	11.63	34.33	183	303	A	H
		5385.24	67.45	-6.55	74	53.88	35.26	11.84	33.53	183	303	P	H
		5400	45.95	-8.05	54	32.35	35.27	11.86	33.53	183	303	A	H
		5135.52	63.52	-10.48	74	51.47	35.01	11.58	34.54	242	360	P	V
		5140	44.94	-9.06	54	32.85	35.03	11.6	34.54	242	360	A	V
		5224	96.72	-	-	84.09	35.09	11.67	34.13	242	360	P	V
		5224	88.82	-	-	76.19	35.09	11.67	34.13	242	360	A	V
		5392.62	60.77	-13.23	74	47.2	35.26	11.84	33.53	242	360	P	V
		5397.3	44.89	-9.11	54	31.29	35.27	11.86	33.53	242	360	A	V
802.11ax HE160 Partial 996/S67 CH 50 5250MHz		5135.84	65.58	-8.42	74	53.53	35.01	11.58	34.54	178	313	P	H
		5125.6	45.09	-8.91	54	33.04	35.01	11.58	34.54	178	313	A	H
		5260	101.27	-	-	88.44	35.14	11.72	34.03	178	313	P	H
		5260	92.96	-	-	80.13	35.14	11.72	34.03	178	313	A	H
		5396.04	65.1	-8.9	74	51.5	35.27	11.86	33.53	178	313	P	H
		5351.76	46.26	-7.74	54	32.87	35.22	11.8	33.63	178	313	A	H
		5124.16	59.38	-14.62	74	47.33	35.01	11.58	34.54	254	34	P	V
		5112.64	44.35	-9.65	54	32.43	35	11.56	34.64	254	34	A	V
		5266	98.28	-	-	85.45	35.14	11.72	34.03	254	34	P	V
		5266	90.41	-	-	77.58	35.14	11.72	34.03	254	34	A	V
	5398.56	64.13	-9.87	74	50.53	35.27	11.86	33.53	254	34	P	V	
	5369.4	45.45	-8.55	54	32.02	35.24	11.82	33.63	254	34	A	V	

Remark	1. No other spurious found.
	2. All results are PASS against Peak and Average limit line.



Band 2A - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 64 5320MHz		5350.3	64.16	-9.84	74	50.77	35.22	11.8	33.63	114	295	P	H
		5350	49.27	-4.73	54	35.88	35.22	11.8	33.63	114	295	A	H
	*	5314	107.87	-	-	94.74	35.19	11.77	33.83	114	295	P	H
		5314	100.54	-	-	87.41	35.19	11.77	33.83	114	295	A	H
		5350.1	62.88	-11.12	74	49.49	35.22	11.8	33.63	179	30	P	V
		5350	48.82	-5.18	54	35.43	35.22	11.8	33.63	179	30	A	V
	*	5320	107.01	-	-	93.88	35.19	11.77	33.83	179	30	P	V
		5320	99.95	-	-	86.82	35.19	11.77	33.83	179	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		7015.015	52.73	-15.57	68.3	62.95	36.79	13.44	60.45	300	0	P	H
		10518.52	44.61	-23.69	68.3	49.77	38.37	17.12	60.65	300	0	P	H
		7015.015	50.46	-17.84	68.3	60.68	36.79	13.44	60.45	300	0	P	V
		10518.52	44.67	-23.63	68.3	49.83	38.37	17.12	60.65	300	0	P	V
802.11a CH 60 5300MHz		7065.065	51.71	-16.59	68.3	61.91	36.77	13.49	60.46	300	0	P	H
		10600	45.08	-28.92	74	50.14	38.4	17.17	60.63	300	0	P	H
		7065.065	49.27	-19.03	68.3	59.47	36.77	13.49	60.46	300	0	P	V
		10600	44.64	-29.36	74	49.7	38.4	17.17	60.63	300	0	P	V
802.11a CH 64 5320MHz		7095.095	51.59	-16.71	68.3	61.78	36.76	13.52	60.47	300	0	P	H
		10640	44.74	-29.26	74	49.75	38.41	17.2	60.62	300	0	P	H
		7095.095	49.29	-19.01	68.3	59.48	36.76	13.52	60.47	300	0	P	V
		10640	46.65	-27.35	74	51.66	38.41	17.2	60.62	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2A 5250~5350MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Full CH 64 5320MHz		5351.1	64.21	-9.79	74	50.82	35.22	11.8	33.63	114	296	P	H
		5350	48.89	-5.11	54	35.5	35.22	11.8	33.63	114	296	A	H
	*	5320	108.82	-	-	95.69	35.19	11.77	33.83	114	296	P	H
		5320	100.69	-	-	87.56	35.19	11.77	33.83	114	296	A	H
		5355.8	64.62	-9.38	74	51.23	35.22	11.8	33.63	180	30	P	V
		5350	47.96	-6.04	54	34.57	35.22	11.8	33.63	180	30	A	V
	*	5326	108.64	-	-	95.41	35.19	11.77	33.73	180	30	P	V
		5326	100.01	-	-	86.78	35.19	11.77	33.73	180	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2A 5250~5350MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 5+6, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 802.11ax HE20 Full channels 52, 60, and 64.



Band 2A 5250~5350MHz
WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Partial 26/0 CH 52 5260MHz		5111.68	54.48	-19.52	74	42.56	35	11.56	34.64	259	320	P	H
		5100.16	44.16	-9.84	54	32.28	34.98	11.54	34.64	259	320	A	H
		5254	106.95	-	-	94.15	35.13	11.7	34.03	259	320	P	H
		5254	97.36	-	-	84.56	35.13	11.7	34.03	259	320	A	H
		5102.08	54.75	-19.25	74	42.87	34.98	11.54	34.64	162	326	P	V
		5100.16	44.17	-9.83	54	32.29	34.98	11.54	34.64	162	326	A	V
		5254	103.33	-	-	90.53	35.13	11.7	34.03	162	326	P	V
		5254	95.36	-	-	82.56	35.13	11.7	34.03	162	326	A	V
802.11ax HE20 Partial 26/8 CH 64 5320MHz		5384.7	54.35	-19.65	74	40.78	35.26	11.84	33.53	100	46	P	H
		5398.7	44.51	-9.49	54	30.91	35.27	11.86	33.53	100	46	A	H
		5326	108.38	-	-	95.15	35.19	11.77	33.73	100	46	P	H
		5326	100.02	-	-	86.79	35.19	11.77	33.73	100	46	A	H
		5393.7	55.02	-18.98	74	41.45	35.26	11.84	33.53	156	30	P	V
		5395.4	44.47	-9.53	54	30.87	35.27	11.86	33.53	156	30	A	V
		5326	106.82	-	-	93.59	35.19	11.77	33.73	156	30	P	V
		5326	98.29	-	-	85.06	35.19	11.77	33.73	156	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2A 5250~5350MHz
WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Partial 52/37 CH 52 5260MHz		5109.92	54.56	-19.44	74	42.64	35	11.56	34.64	264	320	P	H
		5102.08	44.22	-9.78	54	32.34	34.98	11.54	34.64	264	320	A	H
		5254	110.18	-	-	97.38	35.13	11.7	34.03	264	320	P	H
		5254	100.65	-	-	87.85	35.13	11.7	34.03	264	320	A	H
		5115.68	54.45	-19.55	74	42.43	35	11.56	34.54	109	337	P	V
		5100.8	44.2	-9.8	54	32.32	34.98	11.54	34.64	109	337	A	V
		5254	105.79	-	-	92.99	35.13	11.7	34.03	109	337	P	V
802.11ax HE20 Partial 52/40 CH 64 5320MHz		5254	98.09	-	-	85.29	35.13	11.7	34.03	109	337	A	V
		5383	55.4	-18.6	74	41.83	35.26	11.84	33.53	103	30	P	H
		5397.1	44.59	-9.41	54	30.99	35.27	11.86	33.53	103	30	A	H
		5326	108.7	-	-	95.47	35.19	11.77	33.73	103	30	P	H
		5326	99.86	-	-	86.63	35.19	11.77	33.73	103	30	A	H
		5385.8	55.33	-18.67	74	41.76	35.26	11.84	33.53	163	50	P	V
		5398.7	44.6	-9.4	54	31	35.27	11.86	33.53	163	50	A	V
Remark	1.	No other spurious found.											
	2.	All results are PASS against Peak and Average limit line.											



Band 2A 5250~5350MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 5+6, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 data for 802.11ax HE20 Partial 106/53 CH 52 5260MHz and 802.11ax HE20 Partial 106/54 CH 64 5320MHz.



Band 2A 5250~5350MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE40 Full CH 62 5310MHz		5109.12	55.37	-18.63	74	43.45	35	11.56	34.64	261	297	P	H
		5109.76	44.44	-9.56	54	32.52	35	11.56	34.64	261	297	A	H
	*	5302	105.91	-	-	92.81	35.18	11.75	33.83	261	297	P	H
		5302	97.47	-	-	84.37	35.18	11.75	33.83	261	297	A	H
		5351.9	58.91	-15.09	74	45.52	35.22	11.8	33.63	261	297	P	H
		5351.5	48.09	-5.91	54	34.7	35.22	11.8	33.63	261	297	A	H
		5144.64	55.12	-18.88	74	42.93	35.03	11.6	34.44	190	314	P	V
		5102.56	44.33	-9.67	54	32.45	34.98	11.54	34.64	190	314	A	V
	*	5314	104.35	-	-	91.22	35.19	11.77	33.83	190	314	P	V
		5314	95.26	-	-	82.13	35.19	11.77	33.83	190	314	A	V
		5350.7	57.8	-16.2	74	44.41	35.22	11.8	33.63	190	314	P	V
		5353	46.32	-7.68	54	32.93	35.22	11.8	33.63	190	314	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2A 5250~5350MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax		7025.025	51.89	-16.41	68.3	62.11	36.79	13.44	60.45	300	0	P	H
HE40 Full		10540	45	-23.3	68.3	50.13	38.38	17.13	60.64	300	0	P	H
CH 54		7025.025	51.18	-17.12	68.3	61.4	36.79	13.44	60.45	300	0	P	V
5270MHz		10538.54	45.62	-22.68	68.3	50.75	38.38	17.13	60.64	300	0	P	V
802.11ax		7080.08	52.41	-15.89	68.3	62.61	36.77	13.5	60.47	300	0	P	H
HE40 Full		10618.62	45.49	-28.51	74	50.52	38.41	17.18	60.62	300	0	P	H
CH 62		7080.08	51.33	-16.97	68.3	61.53	36.77	13.5	60.47	300	0	P	V
5310MHz		10618.62	45.24	-28.76	74	50.27	38.41	17.18	60.62	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2A 5250~5350MHz
WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE40 Partial 242/61 CH 54 5270MHz		5141.12	55.9	-18.1	74	43.71	35.03	11.6	34.44	179	310	P	H
		5100.48	44.23	-9.77	54	32.35	34.98	11.54	34.64	179	310	A	H
		5260	107.79	-	-	94.96	35.14	11.72	34.03	179	310	P	H
		5260	98.45	-	-	85.62	35.14	11.72	34.03	179	310	A	H
		5391.7	54.68	-19.32	74	41.11	35.26	11.84	33.53	179	310	P	H
		5395.8	44.61	-9.39	54	31.01	35.27	11.86	33.53	179	310	A	H
		5144	54.81	-19.19	74	42.62	35.03	11.6	34.44	154	308	P	V
		5100.64	44.2	-9.8	54	32.32	34.98	11.54	34.64	154	308	A	V
		5254	103.55	-	-	90.75	35.13	11.7	34.03	154	308	P	V
		5254	95.76	-	-	82.96	35.13	11.7	34.03	154	308	A	V
		5386.3	54.73	-19.27	74	41.16	35.26	11.84	33.53	154	308	P	V
		5398.4	44.47	-9.53	54	30.87	35.27	11.86	33.53	154	308	A	V
802.11ax HE40 Partial 242/62 CH 62 5310MHz		5142.88	55.44	-18.56	74	43.25	35.03	11.6	34.44	114	48	P	H
		5100	44.25	-9.75	54	32.37	34.98	11.54	34.64	114	48	A	H
		5320	104.21	-	-	91.08	35.19	11.77	33.83	114	48	P	H
		5320	95.95	-	-	82.82	35.19	11.77	33.83	114	48	A	H
		5357.1	56.2	-17.8	74	42.81	35.22	11.8	33.63	114	48	P	H
		5399	44.78	-9.22	54	31.18	35.27	11.86	33.53	114	48	A	H
		5118.72	54.21	-19.79	74	42.19	35	11.56	34.54	101	334	P	V
		5105.44	44.18	-9.82	54	32.3	34.98	11.54	34.64	101	334	A	V
		5314	101.48	-	-	88.35	35.19	11.77	33.83	101	334	P	V
		5314	93.99	-	-	80.86	35.19	11.77	33.83	101	334	A	V
		5385.9	55.62	-18.38	74	42.05	35.26	11.84	33.53	101	334	P	V
		5396.4	44.52	-9.48	54	30.92	35.27	11.86	33.53	101	334	A	V

Remark	1. No other spurious found.
	2. All results are PASS against Peak and Average limit line.



Band 2A 5250~5350MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE80 Full CH 58 5290MHz		5134.56	54.84	-19.16	74	42.79	35.01	11.58	34.54	124	46	P	H
		5103.68	44.37	-9.63	54	32.49	34.98	11.54	34.64	124	46	A	H
	*	5296	102.48	-	-	89.48	35.18	11.75	33.93	124	46	P	H
		5296	93.55	-	-	80.55	35.18	11.75	33.93	124	46	A	H
		5358.6	59.16	-14.84	74	45.77	35.22	11.8	33.63	124	46	P	H
		5358.3	48.82	-5.18	54	35.43	35.22	11.8	33.63	124	46	A	H
		5111.36	55.17	-18.83	74	43.25	35	11.56	34.64	247	31	P	V
		5100	44.31	-9.69	54	32.43	34.98	11.54	34.64	247	31	A	V
	*	5290	102.26	-	-	89.3	35.16	11.73	33.93	247	31	P	V
		5290	91.77	-	-	78.81	35.16	11.73	33.93	247	31	A	V
		5358.8	58.07	-15.93	74	44.68	35.22	11.8	33.63	247	31	P	V
		5359.4	47.49	-6.51	54	34.1	35.22	11.8	33.63	247	31	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2A 5250~5350MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE80 Full CH 58 5290MHz		7055.055	52.17	-16.13	68.3	62.38	36.78	13.47	60.46	300	0	P	H
		10580	45.44	-22.86	68.3	50.51	38.4	17.16	60.63	300	0	P	H
		7055.055	51.19	-17.11	68.3	61.4	36.78	13.47	60.46	300	0	P	V
		10578.58	45.52	-22.78	68.3	50.61	38.39	17.15	60.63	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2A 5250~5350MHz
WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 5+6, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 frequency measurements like 5131.2, 5101.28, 5308, etc.



Band 2C - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		5459.28	62.14	-11.86	74	48.14	35.32	11.91	33.23	108	293	P	H
		5470	63.52	-4.78	68.3	49.48	35.34	11.93	33.23	108	293	P	H
		5460	47.56	-6.44	54	33.56	35.32	11.91	33.23	108	293	A	H
	*	5506	107.71	-	-	93.4	35.37	11.96	33.02	108	293	P	H
		5506	100.54	-	-	86.23	35.37	11.96	33.02	108	293	A	H
		5457.68	59.82	-14.18	74	45.82	35.32	11.91	33.23	159	33	P	V
		5466	62.56	-5.74	68.3	48.52	35.34	11.93	33.23	159	33	P	V
		5460	47.06	-6.94	54	33.06	35.32	11.91	33.23	159	33	A	V
	*	5500	108.66	-	-	94.45	35.37	11.96	33.12	159	33	P	V
		5500	101.08	-	-	86.87	35.37	11.96	33.12	159	33	A	V
802.11a CH 140 5700MHz		5726.92	59	-9.3	68.3	44.06	35.65	12.15	32.86	100	9	P	H
	*	5704	108.95	-	-	93.95	35.62	12.13	32.75	100	9	P	H
		5704	102.14	-	-	87.14	35.62	12.13	32.75	100	9	A	H
		5728.36	59.75	-8.55	68.3	44.81	35.65	12.15	32.86	159	32	P	V
	*	5704	108.01	-	-	93.01	35.62	12.13	32.75	159	32	P	V
		5704	100.41	-	-	85.41	35.62	12.13	32.75	159	32	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 2C - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		10999	44.35	-29.65	74	48.94	38.53	17.42	60.54	300	0	P	H
		10999	44.4	-29.6	74	48.99	38.53	17.42	60.54	300	0	P	V
802.11a CH 116 5580MHz		11159.16	45.37	-28.63	74	49.79	38.59	17.49	60.5	300	0	P	H
		11159.16	45.89	-28.11	74	50.31	38.59	17.49	60.5	300	0	P	V
802.11a CH 140 5700MHz		11399.39	45.89	-28.11	74	50.08	38.67	17.59	60.45	300	0	P	H
		11399.39	45.12	-28.88	74	49.31	38.67	17.59	60.45	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2C - 5470~5725MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Full CH 100 5500MHz		5460	64.13	-9.87	74	50.13	35.32	11.91	33.23	101	53	P	H
		5460.24	64.2	-4.1	68.3	50.2	35.32	11.91	33.23	101	53	P	H
		5459.92	46.73	-7.27	54	32.73	35.32	11.91	33.23	101	53	A	H
	*	5500	108.66	-	-	94.45	35.37	11.96	33.12	101	53	P	H
		5500	99.92	-	-	85.71	35.37	11.96	33.12	101	53	A	H
		5459.28	59.96	-14.04	74	45.96	35.32	11.91	33.23	160	32	P	V
		5466	63.67	-4.63	68.3	49.63	35.34	11.93	33.23	160	32	P	V
		5459.92	46.33	-7.67	54	32.33	35.32	11.91	33.23	160	32	A	V
	*	5500	110.01	-	-	95.8	35.37	11.96	33.12	160	32	P	V
	5500	100.45	-	-	86.24	35.37	11.96	33.12	160	32	A	V	
802.11ax HE20 Full CH 140 5700MHz		5731.4	60.35	-7.95	68.3	45.41	35.65	12.15	32.86	101	4	P	H
	*	5704	111.4	-	-	96.4	35.62	12.13	32.75	101	4	P	H
		5704	103.56	-	-	88.56	35.62	12.13	32.75	101	4	A	H
		5726.92	62.05	-6.25	68.3	47.11	35.65	12.15	32.86	208	29	P	V
	*	5698	106.71	-	-	91.75	35.59	12.12	32.75	208	29	P	V
	5698	98.84	-	-	83.88	35.59	12.12	32.75	208	29	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2C 5470~5725MHz
WIFI 802.11ax HE20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 5+6, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 data for channels 100, 116, and 140.



Band 2C 5470~5725MHz
WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Partial 26/0 CH 100 5260MHz		5456.08	55.82	-18.18	74	41.82	35.32	11.91	33.23	167	324	P	H
		5465.04	55.87	-12.43	68.3	41.83	35.34	11.93	33.23	167	324	P	H
		5456.88	45.45	-8.55	54	31.45	35.32	11.91	33.23	167	324	A	H
		5494	109.72	-	-	95.55	35.35	11.94	33.12	167	324	P	H
		5494	100.8	-	-	86.63	35.35	11.94	33.12	167	324	A	H
		5443.92	57.23	-16.77	74	43.36	35.31	11.89	33.33	290	43	P	V
		5468.72	54.28	-14.02	68.3	40.24	35.34	11.93	33.23	290	43	P	V
		5459.44	45.44	-8.56	54	31.44	35.32	11.91	33.23	290	43	A	V
		5494	107.52	-	-	93.35	35.35	11.94	33.12	290	43	P	V
		5494	99.37	-	-	85.2	35.35	11.94	33.12	290	43	A	V
802.11ax HE20 Partial 26/8 CH 140 5700MHz		5763.64	57.27	-11.03	68.3	42.34	35.72	12.18	32.97	106	350	P	H
		5710	109.37	-	-	94.37	35.62	12.13	32.75	106	350	P	H
		5710	102.75	-	-	87.75	35.62	12.13	32.75	106	350	A	H
		5750.04	56.97	-11.33	68.3	42.1	35.68	12.16	32.97	348	136	P	V
		5710	105.81	-	-	90.81	35.62	12.13	32.75	348	136	P	V
		5710	97.99	-	-	82.99	35.62	12.13	32.75	348	136	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2C 5470~5725MHz
WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 5+6, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 data for 802.11ax HE20 Partial 52/37 CH 100 5500MHz and 802.11ax HE20 Partial 52/40 CH 140 5700MHz.



Band 2C 5470~5725MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Partial 106/53 CH 100 5500MHz		5443.12	55.64	-18.36	74	41.77	35.31	11.89	33.33	180	308	P	H
		5469.52	64.28	-4.02	68.3	50.24	35.34	11.93	33.23	180	308	P	H
		5457.04	45.7	-8.3	54	31.7	35.32	11.91	33.23	180	308	A	H
		5494	108.08	-	-	93.91	35.35	11.94	33.12	180	308	P	H
		5494	100.11	-	-	85.94	35.35	11.94	33.12	180	308	A	H
		5451.76	55.09	-18.91	74	41.19	35.32	11.91	33.33	199	36	P	V
		5466.96	57.31	-10.99	68.3	43.27	35.34	11.93	33.23	199	36	P	V
		5458	45.62	-8.38	54	31.62	35.32	11.91	33.23	199	36	A	V
		5500	107.31	-	-	93.1	35.37	11.96	33.12	199	36	P	V
		5500	99.04	-	-	84.83	35.37	11.96	33.12	199	36	A	V
802.11ax HE20 Partial 106/54 CH 140 5700MHz		5739.08	57.77	-10.53	68.3	42.9	35.68	12.16	32.97	283	45	P	H
		5704	108.07	-	-	93.07	35.62	12.13	32.75	283	45	P	H
		5704	101.15	-	-	86.15	35.62	12.13	32.75	283	45	A	H
		5739.32	57.18	-11.12	68.3	42.31	35.68	12.16	32.97	191	41	P	V
		5710	107.69	-	-	92.69	35.62	12.13	32.75	191	41	P	V
		5710	100.09	-	-	85.09	35.62	12.13	32.75	191	41	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2C 5470~5725MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE40 Full CH 102 5510MHz		5457.52	60.24	-13.76	74	46.24	35.32	11.91	33.23	300	52	P	H
		5466.8	64.71	-3.59	68.3	50.67	35.34	11.93	33.23	300	52	P	H
		5460	46.77	-7.23	54	32.77	35.32	11.91	33.23	300	52	A	H
	*	5512	106.51	-	-	92.2	35.37	11.96	33.02	300	52	P	H
		5512	97.11	-	-	82.8	35.37	11.96	33.02	300	52	A	H
		5744.52	56.79	-11.51	68.3	41.92	35.68	12.16	32.97	300	52	P	H
		5458.96	59.42	-14.58	74	45.42	35.32	11.91	33.23	160	30	P	V
		5463.28	60.26	-8.04	68.3	46.22	35.34	11.93	33.23	160	30	P	V
		5458	46.71	-7.29	54	32.71	35.32	11.91	33.23	160	30	A	V
	*	5518	104.46	-	-	90.12	35.39	11.97	33.02	160	30	P	V
		5518	96.08	-	-	81.74	35.39	11.97	33.02	160	30	A	V
		5751.64	56.53	-11.77	68.3	41.6	35.72	12.18	32.97	160	30	P	V
802.11ax HE40 Full CH 134 5670MHz		5438	55.45	-18.55	74	41.58	35.31	11.89	33.33	125	2	P	H
		5460.24	54.9	-13.4	68.3	40.9	35.32	11.91	33.23	125	2	P	H
		5459.44	45.39	-8.61	54	31.39	35.32	11.91	33.23	125	2	A	H
	*	5674	106.67	-	-	91.64	35.56	12.1	32.63	125	2	P	H
		5674	97.8	-	-	82.77	35.56	12.1	32.63	125	2	A	H
		5740.52	56.66	-11.64	68.3	41.79	35.68	12.16	32.97	125	2	P	H
		5450.64	54.68	-19.32	74	40.78	35.32	11.91	33.33	130	29	P	V
		5461.52	55.34	-12.96	68.3	41.34	35.32	11.91	33.23	130	29	P	V
		5458	45.38	-8.62	54	31.38	35.32	11.91	33.23	130	29	A	V
	*	5686	103.72	-	-	88.64	35.59	12.12	32.63	130	29	P	V
	5686	95.16	-	-	80.08	35.59	12.12	32.63	130	29	A	V	
	5732.04	56.68	-11.62	68.3	41.74	35.65	12.15	32.86	130	29	P	V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



Band 2C 5470~5725MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 5+6, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 data for channels 102, 110, and 134.



Band 2C 5470~5725MHz
WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE40 Partial 242/61 CH 102 5510MHz		5444.88	55.34	-18.66	74	41.47	35.31	11.89	33.33	241	308	P	H
		5464.08	57.68	-10.62	68.3	43.64	35.34	11.93	33.23	241	308	P	H
		5459.76	45.52	-8.48	54	31.52	35.32	11.91	33.23	241	308	A	H
		5494	105.46	-	-	91.29	35.35	11.94	33.12	241	308	P	H
		5494	97	-	-	82.83	35.35	11.94	33.12	241	308	A	H
		5740.2	56.87	-11.43	68.3	42	35.68	12.16	32.97	241	308	P	H
		5456.88	56.13	-17.87	74	42.13	35.32	11.91	33.23	198	46	P	V
		5468.56	62.9	-5.4	68.3	48.86	35.34	11.93	33.23	198	46	P	V
		5458.96	45.51	-8.49	54	31.51	35.32	11.91	33.23	198	46	A	V
		5500	105.07	-	-	90.86	35.37	11.96	33.12	198	46	P	V
		5500	96.57	-	-	82.36	35.37	11.96	33.12	198	46	A	V
		5740.84	56.38	-11.92	68.3	41.51	35.68	12.16	32.97	198	46	P	V
802.11ax HE40 Partial 242/62 CH 134 5670MHz		5450.16	54.92	-19.08	74	41.02	35.32	11.91	33.33	125	4	P	H
		5469.36	56.47	-11.83	68.3	42.43	35.34	11.93	33.23	125	4	P	H
		5457.52	45.3	-8.7	54	31.3	35.32	11.91	33.23	125	4	A	H
		5674	106.85	-	-	91.82	35.56	12.1	32.63	125	4	P	H
		5674	98.19	-	-	83.16	35.56	12.1	32.63	125	4	A	H
		5740.52	57.86	-10.44	68.3	42.99	35.68	12.16	32.97	125	4	P	H
		5449.04	55.18	-18.82	74	41.28	35.32	11.91	33.33	193	34	P	V
		5463.76	54.63	-13.67	68.3	40.59	35.34	11.93	33.23	193	34	P	V
		5456.4	45.31	-8.69	54	31.31	35.32	11.91	33.23	193	34	A	V
		5674	105.77	-	-	90.74	35.56	12.1	32.63	193	34	P	V
		5674	96.12	-	-	81.09	35.56	12.1	32.63	193	34	A	V
		5736.28	56.08	-12.22	68.3	41.1	35.68	12.16	32.86	193	34	P	V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



Band 2C 5470~5725MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE80 Full CH 106 5530MHz		5452.72	58.81	-15.19	74	44.91	35.32	11.91	33.33	242	124	P	H
		5466.96	58.41	-9.89	68.3	44.37	35.34	11.93	33.23	242	124	P	H
		5459.76	47.94	-6.06	54	33.94	35.32	11.91	33.23	242	124	A	H
	*	5524	103.88	-	-	89.54	35.39	11.97	33.02	242	124	P	H
		5524	93.58	-	-	79.24	35.39	11.97	33.02	242	124	A	H
		5759.8	56.96	-11.34	68.3	42.03	35.72	12.18	32.97	242	124	P	H
		5455.6	57.17	-16.83	74	43.17	35.32	11.91	33.23	161	216	P	V
		5469.36	59.95	-8.35	68.3	45.91	35.34	11.93	33.23	161	216	P	V
		5456.88	47.66	-6.34	54	33.66	35.32	11.91	33.23	161	216	A	V
	*	5506	101.51	-	-	87.2	35.37	11.96	33.02	161	216	P	V
		5506	92.78	-	-	78.47	35.37	11.96	33.02	161	216	A	V
	5756.76	57.11	-11.19	68.3	42.18	35.72	12.18	32.97	161	216	P	V	
802.11ax HE80 Full CH 122 5610MHz		5425.84	55.14	-18.86	74	41.41	35.29	11.87	33.43	104	51	P	H
		5465.2	55.42	-12.88	68.3	41.38	35.34	11.93	33.23	104	51	P	H
		5455.28	45.46	-8.54	54	31.46	35.32	11.91	33.23	104	51	A	H
	*	5608	100.91	-	-	86.11	35.47	12.05	32.72	104	51	P	H
		5608	93.28	-	-	78.48	35.47	12.05	32.72	104	51	A	H
		5737	56.35	-11.95	68.3	41.37	35.68	12.16	32.86	104	51	P	H
		5458	55.71	-18.29	74	41.71	35.32	11.91	33.23	197	27	P	V
		5461.36	54.74	-13.56	68.3	40.74	35.32	11.91	33.23	197	27	P	V
		5457.36	45.48	-8.52	54	31.48	35.32	11.91	33.23	197	27	A	V
	*	5608	102.32	-	-	87.52	35.47	12.05	32.72	197	27	P	V
	5608	92.12	-	-	77.32	35.47	12.05	32.72	197	27	A	V	
	5757.24	57.81	-10.49	68.3	42.88	35.72	12.18	32.97	197	27	P	V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



Band 2C 5470~5725MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 5+6, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 data for 802.11ax HE80 Full at 11059.05 MHz and 11219.21 MHz, and a Remark section.



Band 2C 5470~5725MHz
WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE80 Partial 484/65 CH 106 5530MHz		5434.96	56.73	-17.27	74	42.86	35.31	11.89	33.33	200	50	P	H
		5466.8	58.46	-9.84	68.3	44.42	35.34	11.93	33.23	200	50	P	H
		5460	45.7	-8.3	54	31.7	35.32	11.91	33.23	200	50	A	H
		5512	101.88	-	-	87.57	35.37	11.96	33.02	200	50	P	H
		5512	92.33	-	-	78.02	35.37	11.96	33.02	200	50	A	H
		5746.68	55.89	-12.41	68.3	41.02	35.68	12.16	32.97	200	50	P	H
		5443.76	56.54	-17.46	74	42.67	35.31	11.89	33.33	180	38	P	V
		5468.56	59.13	-9.17	68.3	45.09	35.34	11.93	33.23	180	38	P	V
		5458	45.59	-8.41	54	31.59	35.32	11.91	33.23	180	38	A	V
		5518	100.17	-	-	85.83	35.39	11.97	33.02	180	38	P	V
		5518	90.43	-	-	76.09	35.39	11.97	33.02	180	38	A	V
		5749.16	56.49	-11.81	68.3	41.62	35.68	12.16	32.97	180	38	P	V
802.11ax HE80 Partial 484/66 CH 122 5610MHz		5430.96	54.6	-19.4	74	40.73	35.31	11.89	33.33	286	52	P	H
		5466.8	55.24	-13.06	68.3	41.2	35.34	11.93	33.23	286	52	P	H
		5456.72	45.38	-8.62	54	31.38	35.32	11.91	33.23	286	52	A	H
		5644	100.95	-	-	85.89	35.5	12.08	32.52	286	52	P	H
		5644	93.26	-	-	78.2	35.5	12.08	32.52	286	52	A	H
		5734.84	56.08	-12.22	68.3	41.1	35.68	12.16	32.86	286	52	P	H
		5452.08	55.21	-18.79	74	41.31	35.32	11.91	33.33	159	52	P	V
		5462.16	56.11	-12.19	68.3	42.11	35.32	11.91	33.23	159	52	P	V
		5457.04	45.35	-8.65	54	31.35	35.32	11.91	33.23	159	52	A	V
		5620	99.69	-	-	84.77	35.48	12.06	32.62	159	52	P	V
		5620	90.59	-	-	75.67	35.48	12.06	32.62	159	52	A	V
		5746.28	56.47	-11.83	68.3	41.6	35.68	12.16	32.97	159	52	P	V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



Band 2C 5470~5725MHz
WIFI 802.11ax H160 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE160 Full CH 114 5570MHz		5456.08	58.61	-15.39	74	44.61	35.32	11.91	33.23	100	45	P	H
		5469.68	58.78	-9.52	68.3	44.74	35.34	11.93	33.23	100	45	P	H
		5458.32	49.02	-4.98	54	35.02	35.32	11.91	33.23	100	45	A	H
	*	5566	98.37	-	-	83.73	35.44	12.02	32.82	100	45	P	H
		5566	89.07	-	-	74.43	35.44	12.02	32.82	100	45	A	H
		5728.2	59.11	-9.19	68.3	44.17	35.65	12.15	32.86	100	45	P	H
		5455.92	58.77	-15.23	74	44.77	35.32	11.91	33.23	191	25	P	V
		5468.56	60.1	-8.2	68.3	46.06	35.34	11.93	33.23	191	25	P	V
		5457.84	48.91	-5.09	54	34.91	35.32	11.91	33.23	191	25	A	V
	*	5608	99.04	-	-	84.24	35.47	12.05	32.72	191	25	P	V
		5608	89.95	-	-	75.15	35.47	12.05	32.72	191	25	A	V
		5728.28	57.74	-10.56	68.3	42.8	35.65	12.15	32.86	191	25	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2C 5470~5725MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE160 Full CH 114 5570MHz		11139.13	44.45	-29.55	74	48.9	38.58	17.48	60.51	300	0	P	H
		11139.13	44.53	-29.47	74	48.98	38.58	17.48	60.51	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2C 5470~5725MHz
WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE160 Partial 996/67 CH 114 5570MHz		5458.96	64.33	-9.67	74	50.33	35.32	11.91	33.23	102	51	P	H
		5462	60.65	-7.65	68.3	46.65	35.32	11.91	33.23	102	51	P	H
		5459.12	46.49	-7.51	54	32.49	35.32	11.91	33.23	102	51	A	H
		5548	96.14	-	-	81.64	35.42	12	32.92	102	51	P	H
		5548	89.05	-	-	74.55	35.42	12	32.92	102	51	A	H
		5728.04	64.63	-3.67	68.3	49.69	35.65	12.15	32.86	102	51	P	H
		5453.84	67.57	-6.43	74	53.57	35.32	11.91	33.23	231	33	P	V
		5464.08	65.18	-3.12	68.3	51.14	35.34	11.93	33.23	231	33	P	V
		5459.28	46.6	-7.4	54	32.6	35.32	11.91	33.23	231	33	A	V
		5560	99.15	-	-	84.55	35.42	12	32.82	231	33	P	V
		5560	90.19	-	-	75.59	35.42	12	32.82	231	33	A	V
		5734.36	60.79	-7.51	68.3	45.85	35.65	12.15	32.86	231	33	P	V
802.11ax HE160 Partial 996/S67 CH 114 5570MHz		5456.56	61.62	-12.38	74	47.62	35.32	11.91	33.23	166	0	P	H
		5461.52	61.26	-7.04	68.3	47.26	35.32	11.91	33.23	166	0	P	H
		5441.52	45.57	-8.43	54	31.7	35.31	11.89	33.33	166	0	A	H
		5632	98.02	-	-	83.1	35.48	12.06	32.62	166	0	P	H
		5632	90.01	-	-	75.09	35.48	12.06	32.62	166	0	A	H
		5728.52	64.67	-3.63	68.3	49.73	35.65	12.15	32.86	166	0	P	H
		5458	63.71	-10.29	74	49.71	35.32	11.91	33.23	203	39	P	V
		5467.44	60.28	-8.02	68.3	46.24	35.34	11.93	33.23	203	39	P	V
		5453.68	45.51	-8.49	54	31.51	35.32	11.91	33.23	203	39	A	V
		5626	98.55	-	-	83.63	35.48	12.06	32.62	203	39	P	V
	5626	90.36	-	-	75.44	35.48	12.06	32.62	203	39	A	V	
	5725.32	61.88	-6.42	68.3	46.94	35.65	12.15	32.86	203	39	P	V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



Band 2C - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5716	109.35	-	-	94.46	35.62	12.13	32.86	400	0	P	H
		5716	101.35	-	-	86.46	35.62	12.13	32.86	400	0	A	H
	*	5716	105.35	-	-	90.46	35.62	12.13	32.86	100	0	P	V
		5716	97.47	-	-	82.58	35.62	12.13	32.86	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2C - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11439.44	45.34	-28.66	74	49.5	38.68	17.6	60.44	300	0	P	H
		11439.44	45.46	-28.54	74	49.62	38.68	17.6	60.44	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2C - Straddle Channel

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 144 5720MHz	*	5722	109.88	-	-	94.94	35.65	12.15	32.86	400	0	P	H
		5722	101.46	-	-	86.52	35.65	12.15	32.86	400	0	A	H
	*	5716	106.07	-	-	91.18	35.62	12.13	32.86	100	0	P	V
		5716	98.32	-	-	83.43	35.62	12.13	32.86	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2C - Straddle Channel

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE20 Full		11439.44	45.72	-28.28	74	49.88	38.68	17.6	60.44	300	0	P	H
CH 144 5720MHz		11439.44	45.06	-28.94	74	49.22	38.68	17.6	60.44	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2C - Straddle Channel

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE40 Full	*	5704	106.35	-	-	91.35	35.62	12.13	32.75	400	0	P	H
CH 142 5710MHz	*	5710	102.8	-	-	87.8	35.62	12.13	32.75	100	0	P	V
		5710	95.48	-	-	80.48	35.62	12.13	32.75	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2C - Straddle Channel

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax HE40 Full		11419.42	45.26	-28.74	74	49.45	38.67	17.59	60.45	300	0	P	H
CH 142 5710MHz		11419.42	44.3	-29.7	74	48.49	38.67	17.59	60.45	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2C Straddle Channel
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax	*	5704	103.11	-	-	88.11	35.62	12.13	32.75	400	0	P	H
HE80 Full		5704	96.75	-	-	81.75	35.62	12.13	32.75	400	0	A	H
CH 138	*	5710	99	-	-	84	35.62	12.13	32.75	100	0	P	V
5690MHz		5710	91.59	-	-	76.59	35.62	12.13	32.75	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2C - Straddle Channel
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11ax		11379.38	45.07	-28.93	74	49.29	38.66	17.58	60.46	300	0	P	H
HE80 Full													
CH 138		11379.38	45.33	-28.67	74	49.55	38.66	17.58	60.46	300	0	P	V
5690MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ax HE160 Partial 996 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
WIFI 802.11ax HE160 Partial 996 LF		45.52	26.91	-13.09	40	41.88	16.92	1.03	32.92	-	-	P	H
		97.9	24.32	-19.18	43.5	37.97	17.68	1.49	32.82	-	-	P	H
		181.32	20.25	-23.25	43.5	34.44	16.75	2.05	32.99	-	-	P	H
		308.39	20.16	-25.84	46	29.97	20.41	2.68	32.9	-	-	P	H
		537.31	25.23	-20.77	46	28.8	25.54	3.54	32.65	-	-	P	H
		889.42	31.93	-14.07	46	32.53	27.36	4.56	32.52	-	-	P	H
		45.52	27.21	-12.79	40	42.18	16.92	1.03	32.92	-	-	P	V
		98.87	26.14	-17.36	43.5	39.61	17.89	1.5	32.86	-	-	P	V
		182.29	20.56	-22.94	43.5	34.78	16.72	2.05	32.99	-	-	P	V
		512.09	25.14	-20.86	46	29.6	24.83	3.46	32.75	-	-	P	V
		688.63	26.37	-19.63	46	29.39	25.75	4.01	32.78	-	-	P	V
	910.76	30.68	-15.32	46	31.01	27.51	4.62	32.46	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE160 Full +WIFI 802.11ax HE20 Full + Part 96 B48 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
8802.11ax HE20 Full CH 11 2462MHz	*	2484.16	60.88	-13.12	74	56.42	30.86	7.86	34.26	144	216	P	H
	*	2483.5	47.69	-6.31	54	43.23	30.86	7.86	34.26	144	216	A	H
		2458	108.07	---	---	103.73	30.79	7.83	34.28	144	216	P	H
		2458	97.79	---	---	93.45	30.79	7.83	34.28	144	216	A	H
	*	2485.3	60.15	-13.85	74	55.69	30.86	7.86	34.26	300	303	P	V
	*	2483.5	46.62	-7.38	54	42.16	30.86	7.86	34.26	300	303	A	V
		2460	108.69	---	---	104.35	30.79	7.83	34.28	300	303	P	V
		2460	98.2	---	---	93.86	30.79	7.83	34.28	300	303	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE160 Full +WIFI 802.11ax HE20 Full + Part 96 B48 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 11 2462MHz		4926	37.86	-36.14	74	57.19	34.77	11.35	65.45	300	0	P	H
		7386	45.23	-28.77	74	60.95	36.64	13.8	66.16	300	0	P	H
		4926	38.16	-35.84	74	57.49	34.77	11.35	65.45	300	360	P	V
		7386	43.59	-30.41	74	59.31	36.64	13.8	66.16	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 - 5150~5250MHz

WIFI 802.11ax HE160 Full +WIFI 802.11ax HE20 Full + Part 96 B48 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	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)
802.11ax HE160 Full CH 50 5250MHz		5149.6	57.29	-16.71	74	45.1	35.03	11.6	34.44	180	311	P	H
		5150	46.8	-7.2	54	34.61	35.03	11.6	34.44	180	311	A	H
	*	5260	96.83	-	-	84	35.14	11.72	34.03	180	311	P	H
		5260	88.5	-	-	75.67	35.14	11.72	34.03	180	311	A	H
		5359.2	61.08	-12.92	74	47.69	35.22	11.8	33.63	180	311	P	H
		5371.2	50.01	-3.99	54	36.58	35.24	11.82	33.63	180	311	A	H
		5120.8	55.89	-18.11	74	43.87	35	11.56	34.54	107	335	P	V
		5142.08	45.82	-8.18	54	33.63	35.03	11.6	34.44	107	335	A	V
	*	5230	94.49	-	-	81.83	35.11	11.68	34.13	107	335	P	V
		5230	86.42	-	-	73.76	35.11	11.68	34.13	107	335	A	V
		5382.6	55.79	-18.21	74	42.22	35.26	11.84	33.53	107	335	P	V
		5390.6	45.87	-8.13	54	32.3	35.26	11.84	33.53	107	335	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE160 Full +WIFI 802.11ax HE20 Full + Part 96 B48 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	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)
802.11ax HE160 Full CH 50 5250MHz		10503	44.48	-23.82	68.3	55.95	38.37	17.11	66.95	100	360	P	H
		10503	44.9	-23.4	68.3	56.37	38.37	17.11	66.95	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE160 Partial 996+BLE+ Part 96 B48 (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 2480MHz	*	2486.08	53.58	-20.42	74	49.12	30.86	7.86	34.26	330	330	P	H
	*	2483.5	46.26	-7.74	54	41.8	30.86	7.86	34.26	330	330	A	H
		2480	100.81	-	-	96.35	30.86	7.86	34.26	330	330	P	H
		2480	100.18	-	-	95.72	30.86	7.86	34.26	330	330	A	H
	*	2493.22	53.96	-20.04	74	49.37	30.93	7.89	34.23	244	247	P	V
	*	2483.5	45.52	-8.48	54	41.06	30.86	7.86	34.26	244	247	A	V
		2480	99.34	-	-	94.88	30.86	7.86	34.26	244	247	P	V
		2480	98.88	-	-	94.42	30.86	7.86	34.26	244	247	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE160 Partial 996+BLE+ Part 96 B48 (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 2480MHz		4962	38.84	-35.16	74	58.1	34.82	11.39	65.47	300	0	P	H
		7440	45.1	-28.9	74	60.94	36.62	13.85	66.31	300	0	P	H
		4960	39.97	-34.03	74	59.23	34.82	11.39	65.47	300	360	P	V
		7440	44.41	-29.59	74	60.25	36.62	13.85	66.31	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2C - 5470~5725MHz

WIFI 802.11ax HE160 Partial 996+BLE+ Part 96 B48 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Partial 996/67 CH 114 5570MHz		5441.36	64.18	-9.82	74	50.31	35.31	11.89	33.33	288	46	P	H
		5463.28	56.38	-11.92	68.3	42.34	35.34	11.93	33.23	288	46	P	H
		5452.4	46.32	-7.68	54	32.42	35.32	11.91	33.33	288	46	A	H
		5524	99.71	-	-	85.37	35.39	11.97	33.02	288	46	P	H
		5524	88.72	-	-	74.38	35.39	11.97	33.02	288	46	A	H
		5728.04	64.58	-3.72	68.3	49.64	35.65	12.15	32.86	288	46	P	H
		5437.52	59.21	-14.79	74	45.34	35.31	11.89	33.33	198	24	P	V
		5460.24	58.59	-9.71	68.3	44.59	35.32	11.91	33.23	198	24	P	V
		5457.68	46.77	-7.23	54	32.77	35.32	11.91	33.23	198	24	A	V
		5548	97.79	-	-	83.29	35.42	12	32.92	198	24	P	V
		5548	88.72	-	-	74.22	35.42	12	32.92	198	24	A	V
		5725.8	61.04	-7.26	68.3	46.1	35.65	12.15	32.86	198	24	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2C 5470~5725MHz

WIFI 802.11ax HE160 Partial 996+BLE+ Part 96 B48 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Partial 996/67 CH 114 5570MHz		11142	45.12	-28.88	74	55.55	38.58	17.48	66.49	100	360	P	H
		11142	45.93	-28.07	74	56.36	38.58	17.48	66.49	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+6		(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. 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. Over Limit(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. 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) + 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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

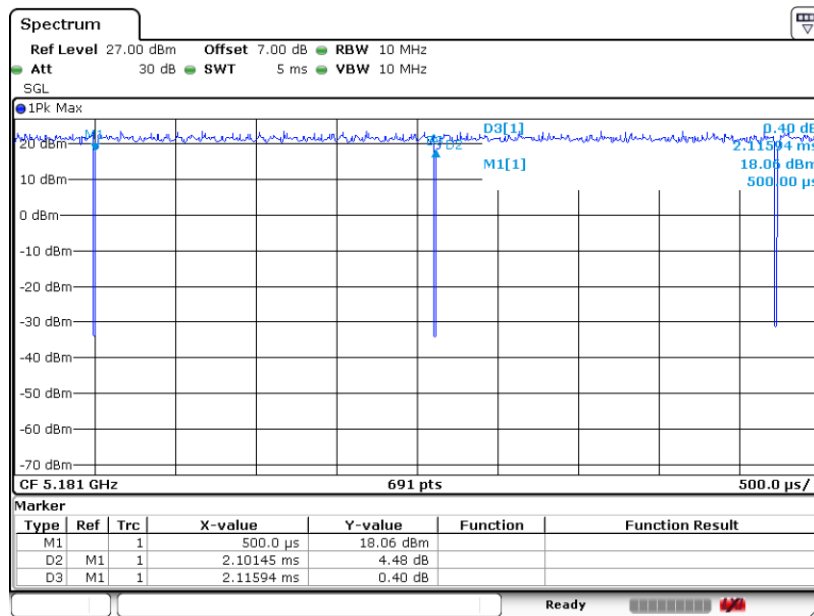
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	99.32	-	-	10Hz
802.11ax HE20	100	-	-	10Hz
802.11ax HE40	100	-	-	10Hz
802.11ax HE80	100	-	-	10Hz
802.11ax HE160	100	-	-	10Hz

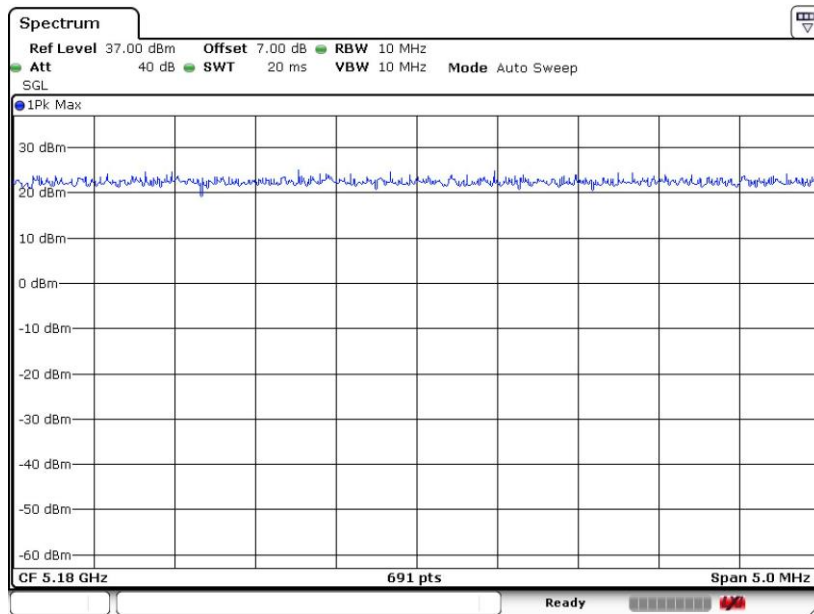
802.11a



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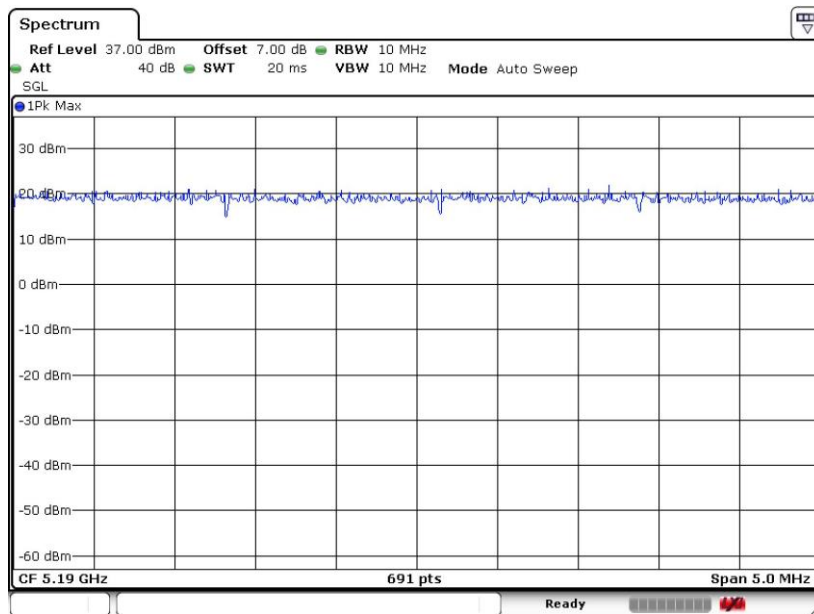


802.11ax HE20



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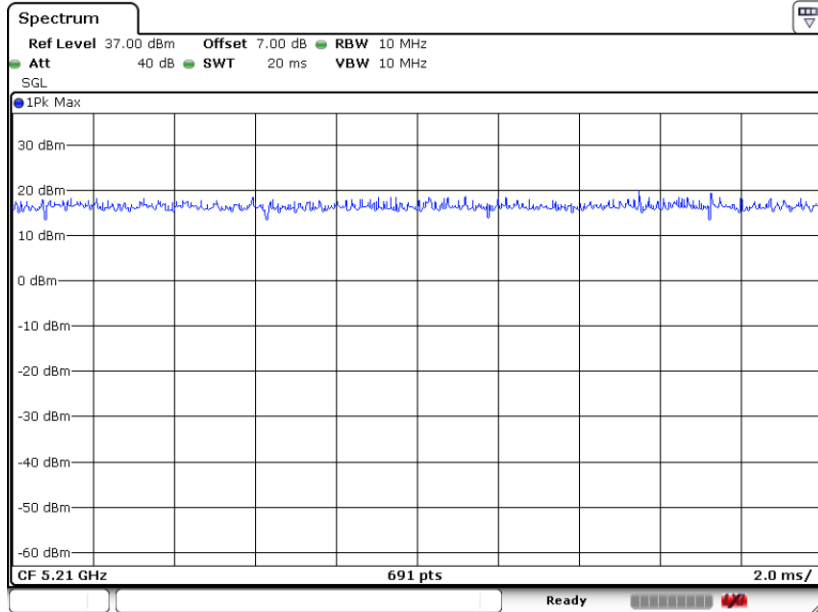
802.11ax HE40



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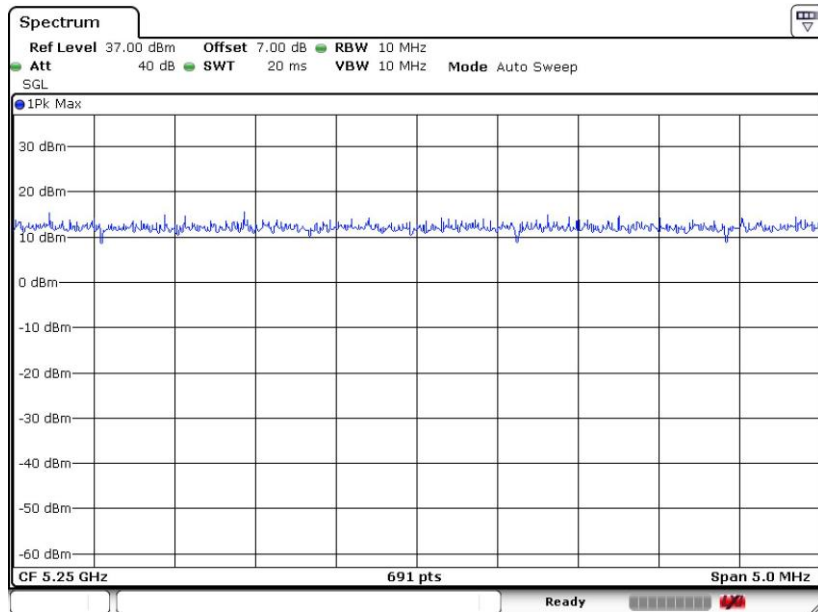


802.11ax HE80



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802.11ax HE160



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