FCC RADIO TEST REPORT

FCC ID	:	**S9GR760**
Equipment	:	**R760 Access Point**
Brand Name	:	**RUCKUS**
Model Name	:	**R760**
Applicant	:	**Ruckus Wireless Inc.** **350 W. Java Dr., Sunnyvale CA 94089 USA**
Manufacturer	:	**Ruckus Wireless Inc.** **350 W. Java Dr., Sunnyvale CA 94089 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Jul. 28, 2021 and testing was performed from Aug. 15, 2021 to Feb. 07, 2023. We, Sporton International (USA) 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 from Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Lance Tang

Approved by: Lance Tang

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035

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History of this test report

Report No.	Version	Description	Issue Date
FR210728001-04B	01	Initial issue of report	Feb. 22, 2023
FR210728001-04B	02	Revise Summary note, section 2.2 and section 3.3.5	Mar. 14, 2023
FR210728001-04B	03	Revise remark in section 2.2	Mar. 16, 2023
FR210728001-04B	04	Revise section 3.3.5 and Appendix E	Mar. 21, 2023

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	0.16 dB under the limit at 5469.360 and 5351.040MHz
3.5	15.207	AC Conducted Emission	Pass	9.27 dB under the limit at 0.369 MHz
3.6	15.203 15.407(a)	Antenna Requirement	Pass	-

Note:

1. This is a variant report by adding Partial RU data. The FR210728001-04D report reuses Full RU and AC Conducted Emission data from the original report number FR210728001D.
2. This test report verifies the software change which is only associated with Partial Loaded RU. The implemented change does not have any impact on or make any difference in DFS and CBP algorithm, the maximum power and antenna design remain identical. Hence the DFS, CBP test results obtained in the original device are still representative for the variant device.

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. Please refer to the section ” Uncertainty of Evaluation ” for measurement uncertainty.
Comments and Explanations:
The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Product Feature of Equipment Under Test

The EUT is an indoor AP with radios including Bluetooth - LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/n/ac/ax, 802.15.4 (Zigbee), equipped with integrated antennas configured below:

Antenna Configuration	
Antenna Type	**WLAN 2.4GHz** <Ant. A>: Omni Antenna <Ant. B>: Omni Antenna <Ant. C>: Omni Antenna <Ant. D>: Omni Antenna **WLAN 5GHz** **Radio 1 and Radio 2:** <Ant. A>: Omni Antenna <Ant. B>: Omni Antenna <Ant. C>: Omni Antenna <Ant. D>: Omni Antenna **Radio 3:** <Ant. E>: Omni Antenna <Ant. F>: Omni Antenna <Ant. G>: Omni Antenna <Ant. H>: Omni Antenna **WLAN 6GHz** <Ant. E>: Omni Antenna <Ant. F>: Omni Antenna <Ant. G>: Omni Antenna <Ant. H>: Omni Antenna **Bluetooth-LE:** <Ant. 1>Omni Antenna **Zigbee:** <Ant. 1>Omni Antenna

Antenna information			
5150 MHz ~ 5725 MHz	Peak Gain (dBi)	Vertical	**<Ant. A>:** 2.9 **<Ant. D>:** 2.9
		Horizontal	**<Ant. B>:** 2.9 **<Ant. C>:** 2.9
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Vertical	**<Ant. E>:** 2.9 **<Ant. H>:** 2.9
		Horizontal	**<Ant. F>:** 2.9 **<Ant. G>:** 2.9

Remark:

1. The above EUT's information is declared by the manufacturer.
2. The device is a special case of MIMO system with four outputs driving a cross-polarized pair of linearly polarized antennas (noted as “vertical” and “horizontal”).
   The antenna printed on the secondary board which is vertically/horizontally mounted on the main board.
3. The device has three radio circuits operational in WLAN 5GHz bands, the configuration of each circuit is listed in the following table:

Radio 1	UNII-1, UNII-2a
Radio 2	UNII-1, UNII-2a, UNII-2c, UNII-3
Radio 3	UNII-2c, UNII-3

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	**Sporton Site No.**
	TH01-CA, CO01-CA, 03CH02-CA

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

FCC Designation No.: US1250

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.

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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X Plane for Radio 1 and Radio 2; Y Plane for Radio 3

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 Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)
5150-5350 MHz	50@	5250
5470-5725 MHz	114@	5570

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 with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80.
3. The above Frequency and Channel with "@" are 802.11ac VHT80+80, VHT160, 802.11ax HE80+80 and HE160.

2.2 Test Mode

The final test modes consider the modulation and the worst data rates as shown in the table below.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ac VHT80+80 (Covered by HE80+80)	MCS0
802.11ac VHT160 (Covered by HE160)	MCS0
802.11ax HE20	MCS0
802.11ax HE20 partial RU 52*4	MCS0
802.11ax HE20 partial RU 106*2	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE80+80	MCS0
802.11ax HE160	MCS0

TXBF Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ac VHT160 (Covered by HE160)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

Note:

1. The 802.11ax covers the 802.11n and 11ac due to same modulation family scheme.
2. Partial RU 52*4 and 106*2 has smallest occupied spectrum BW among supported partial RU configuration.
3. The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance. The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel, 996-tone RU is covered by 80MHz channel and 996*2-tone is covered by 160MHz channel.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + Bluetooth - LE Idle + Zigbee Tx + Charging from Adapter + LAN 1 Link+ WLAN (5GHz) (Iron 5G -AK10155) Link + WLAN (6GHz) Link + USB Load + LAN2 Link Mode 2 : WLAN (2.4GHz) Link + Bluetooth - LE Idle + Zigbee Tx + Charging from Adapter + LAN 1 Link + WLAN (5GHz) (PINE-HMD0139L) Link + WLAN (5GHz) (Iron 5G -QPQ190) Link + USB Load + LAN 2 Link Mode 3 : WLAN (2.4GHz) Link + Bluetooth – LE Tx + BLE Tx + Charging from Adapter + LAN 1 Link + WLAN (5GHz) (Iron 5G -AK10155) Link + WLAN (6GHz) Link + USB Load + LAN 2 Link
Remark: The worst case of Conducted Emission is mode 1; only the test data of it was reported.	

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：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. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

BW160	5150-5350 MHz	5470-5850MHz
	802.11ax HE80+80	802.11ax HE80+80
Ch. #	(CH42+58)	(CH106+CH122)

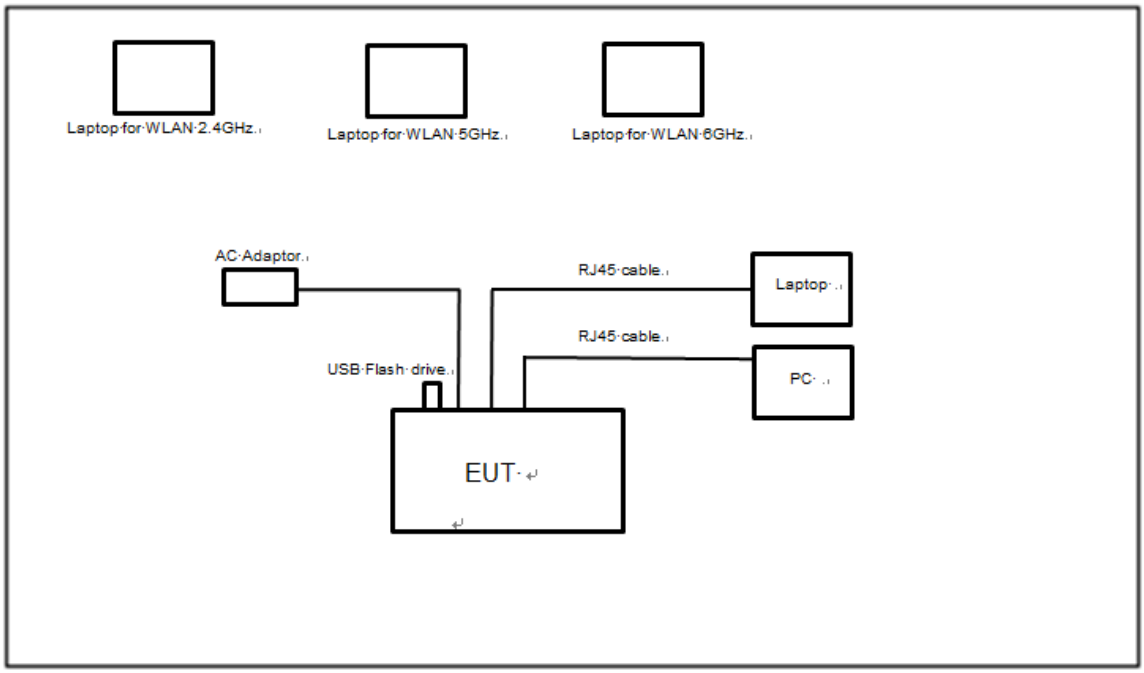
BW160	5150-5350 MHz	5470-5725MHz
	802.11ax HE160	802.11ax HE160
Ch. #	-	114

Remark:

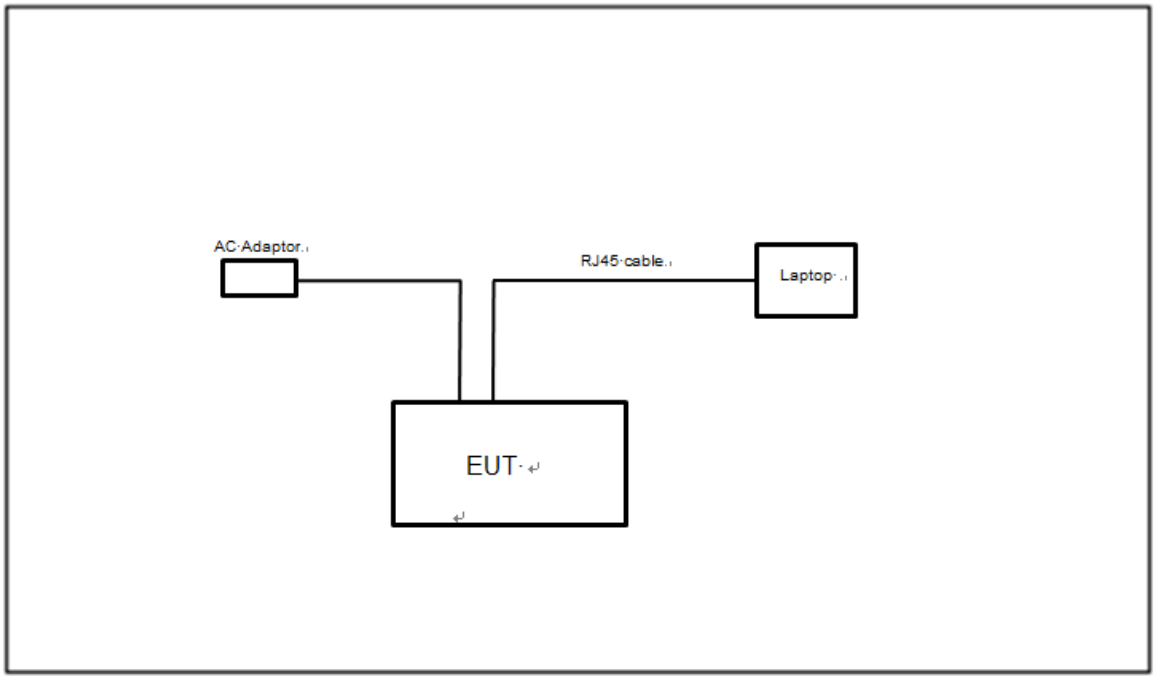
1. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.
2. RF power on each chain in MIMO mode is greater than SISO mode. The SISO Mode is covered by MIMO Mode.
3. After preliminary scan designated by the manufacturer, CDD mode is determined to be the worst case compared to Beamforming mode, hence, all the radiated test is performed in CDD mode.
4. The setup method between CDD and Beamforming mode is identical except that one of the polarizations is disabled while Beamforming mode is activated so both modes share the same conducted power table. The only difference is how directional gain is calculated between two modes.
5. 802.11ax HE80+80 and 802.11ac VHT80+80 are only supported by Radio 2 and Radio 1, whereas 802.11ax HE160 and 802.11ac VHT160 is only supported by Radio 3.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<Radiated Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	ACER	Altos PS548-G1	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
2.	Notebook	LENOVO	80RU	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
3.	Notebook	MSI	MS-17F3	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
4.	Notebook	ACER	Altos PS548-G1	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
5.	PC	Fractal	FD-C-DEF7A-01 (NETINTX550TR Intel X550T2BLK)	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
6.	USB Flash drive	SanDisk	N/A	N/A	N/A	N/A
7.	AC Adaptor	Ruckus	740-64277-001	N/A	N/A	AC I/P: Unshielded, 1.2m

2.5 EUT Operation Test Setup

The RF test items, utility “PuTTY VRelease 0.75” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

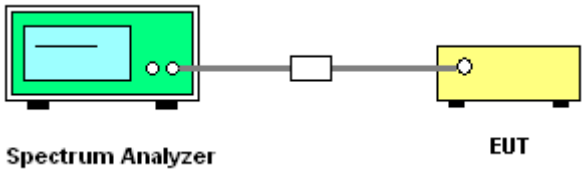
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup



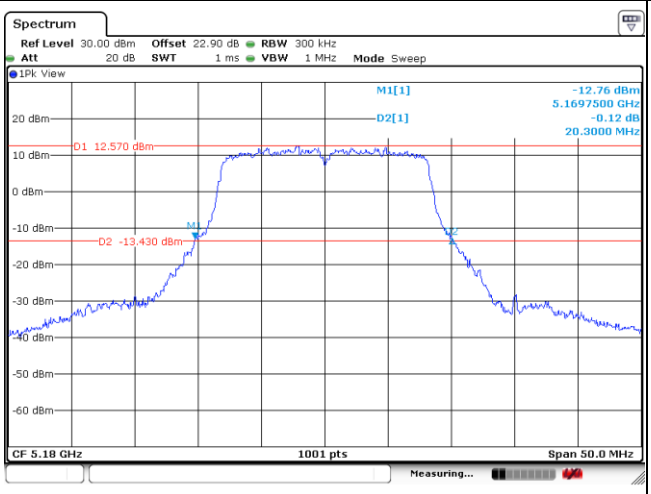
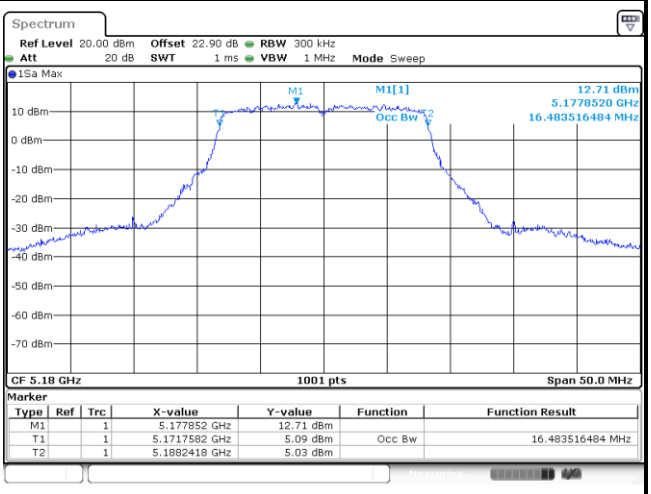
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

<Radio 1>

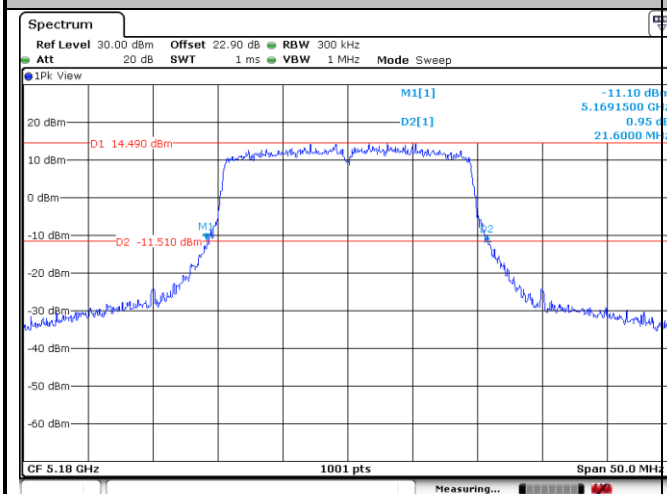
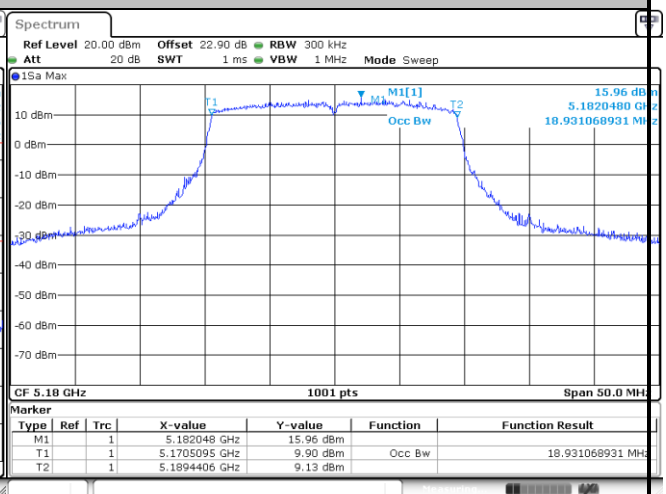
<CDD Mode>

<802.11a CH36 Ant. A>

26dB Bandwidth	99% Occupied Bandwidth
	

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

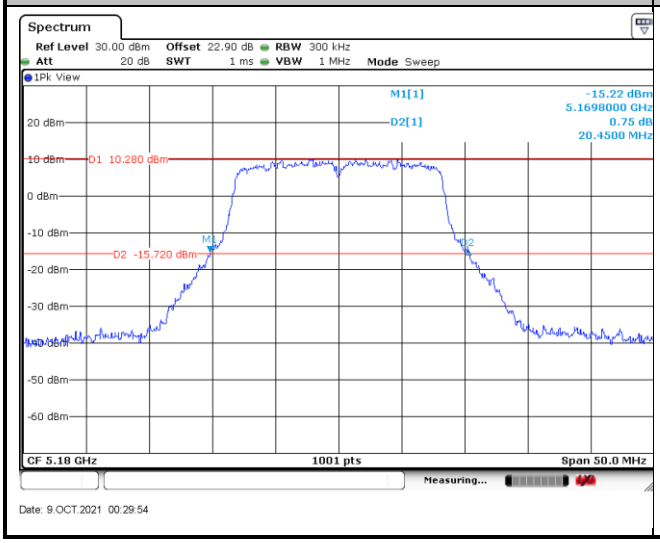
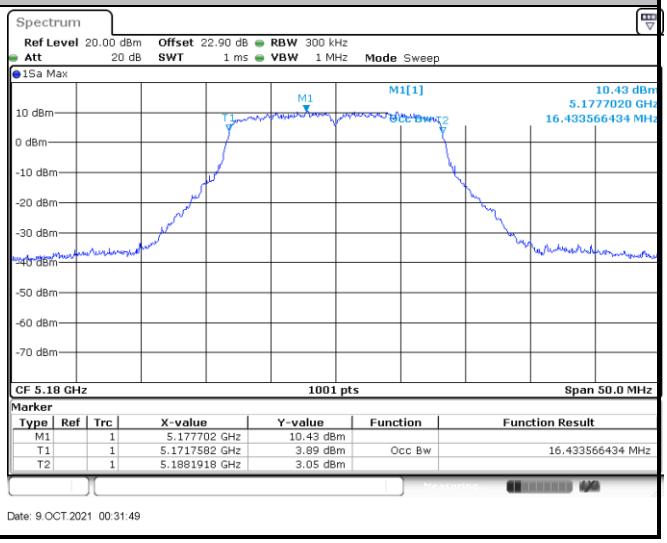
<802.11ax HE20 CH36 Ant. A>

26dB Bandwidth	99% Occupied Bandwidth
	

< Radio 2>

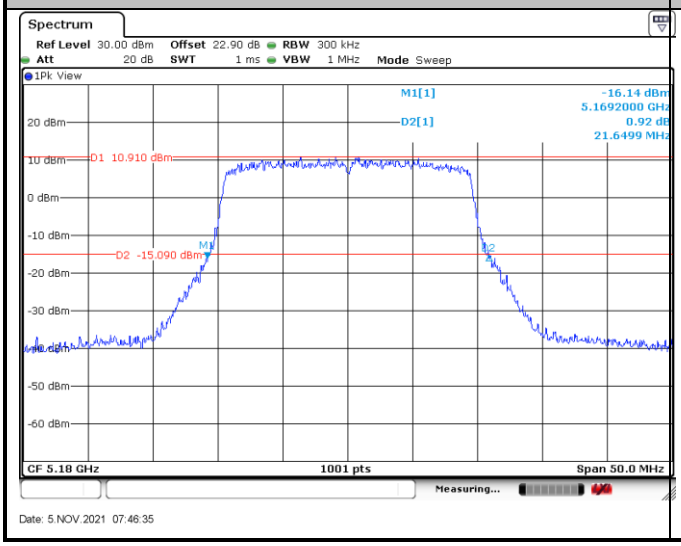
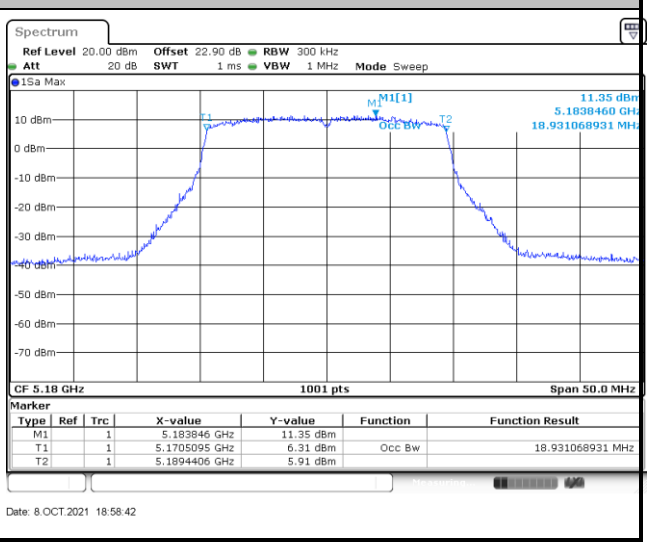
<CDD Mode>

<802.11a CH36 Ant. A>

26dB Bandwidth	99% Occupied Bandwidth
	

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

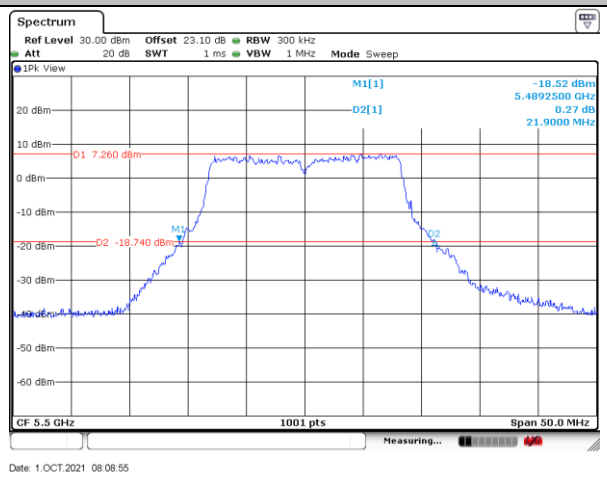
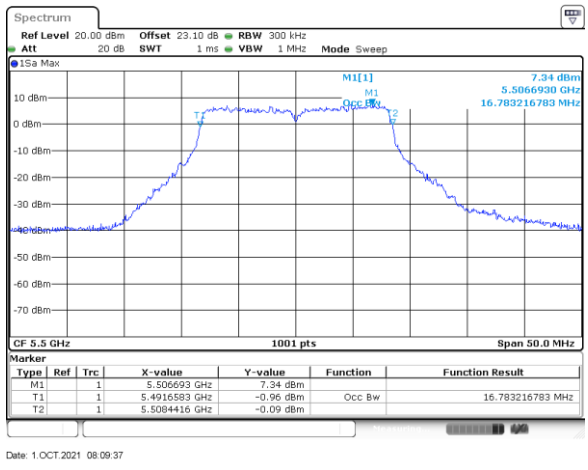
<802.11ax HE20 CH36 Ant. A>

26dB Bandwidth	99% Occupied Bandwidth
	

<Radio 3>

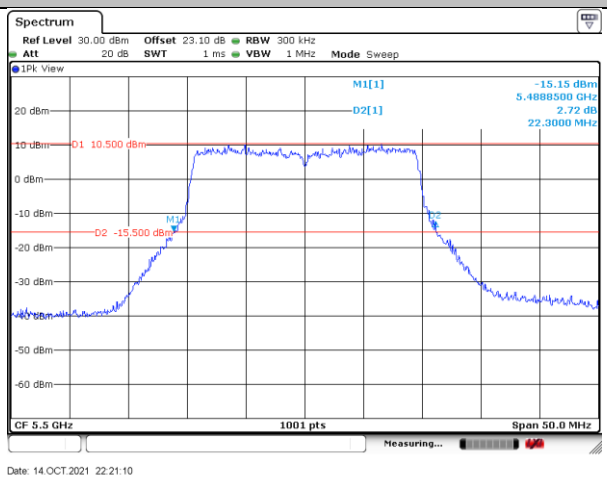
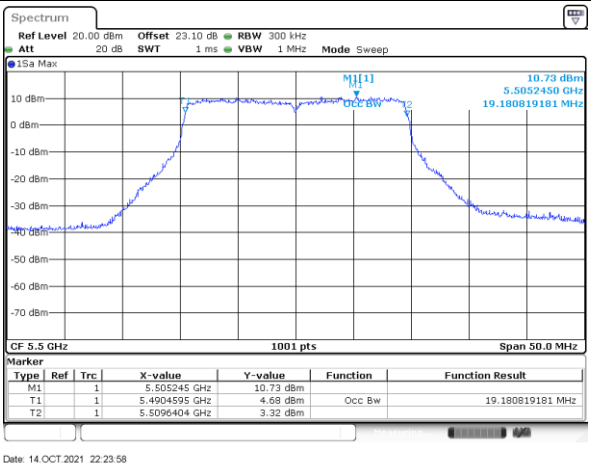
<CDD Mode>

<802.11a CH100 Ant. E>

26dB Bandwidth	99% Occupied Bandwidth
	

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

<802.11ax HE20 CH100 Ant. E>

26dB Bandwidth	99% Occupied Bandwidth
	

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ 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 an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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

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

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

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

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

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

<TXBF Modes>

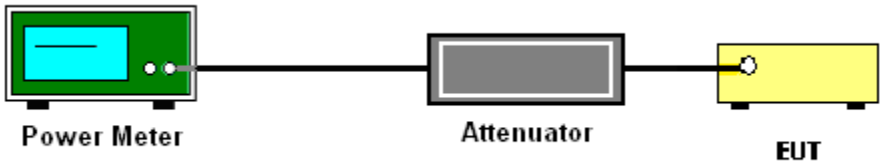
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

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

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

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in 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 ≥ 3 MHz.
- Number of points in sweep ≥ 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 is 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 from a device with 4 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, output 3 and output 4 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup

3.3.5 Test Result of Power Spectral Density

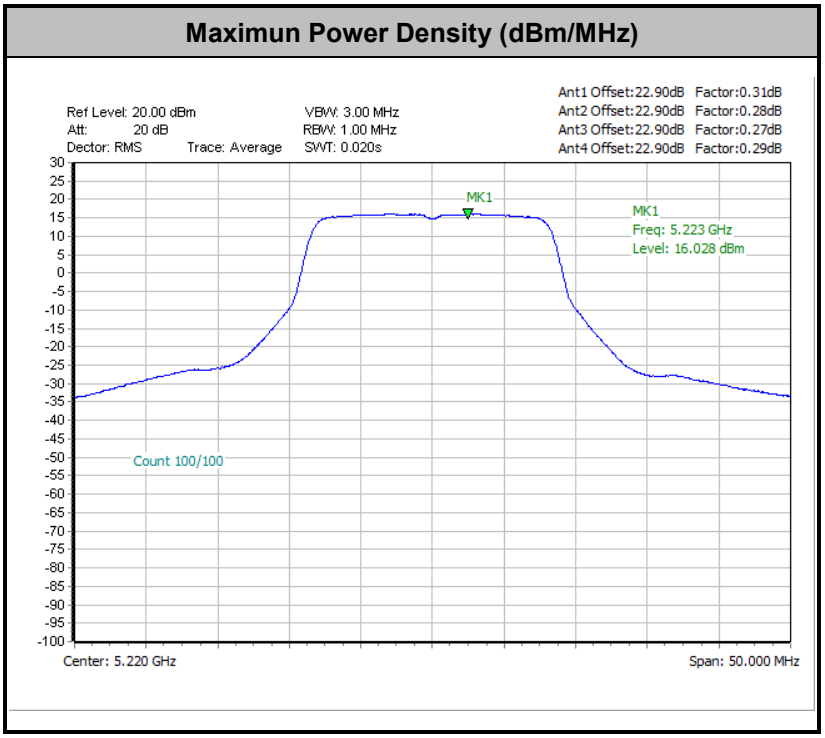
Please refer to Appendix A.

<Radio 1>

<CDD Modes>

<802.11a mode >

<MIMO Ant. A + D + B + C>



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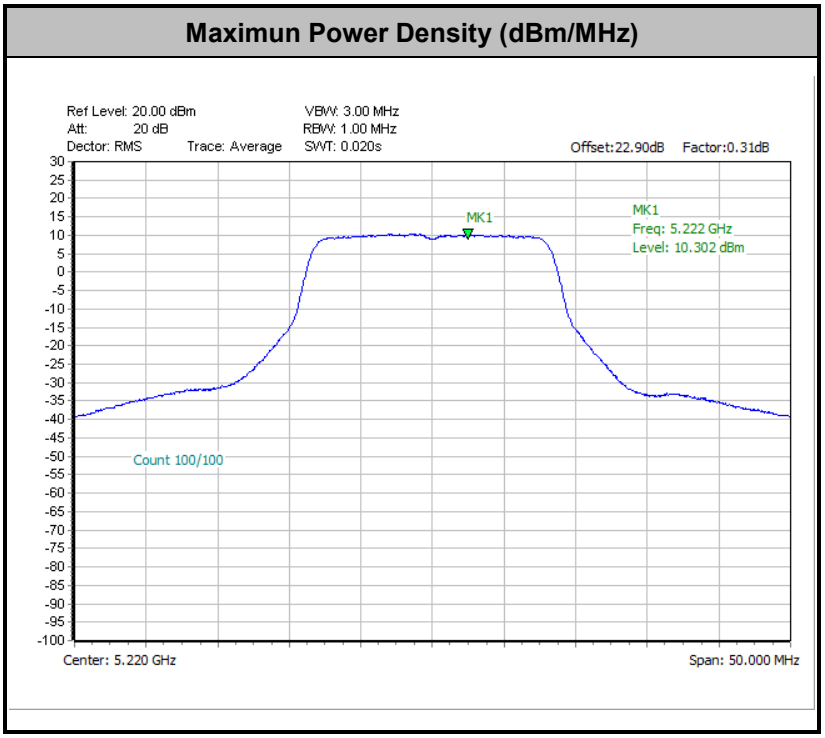

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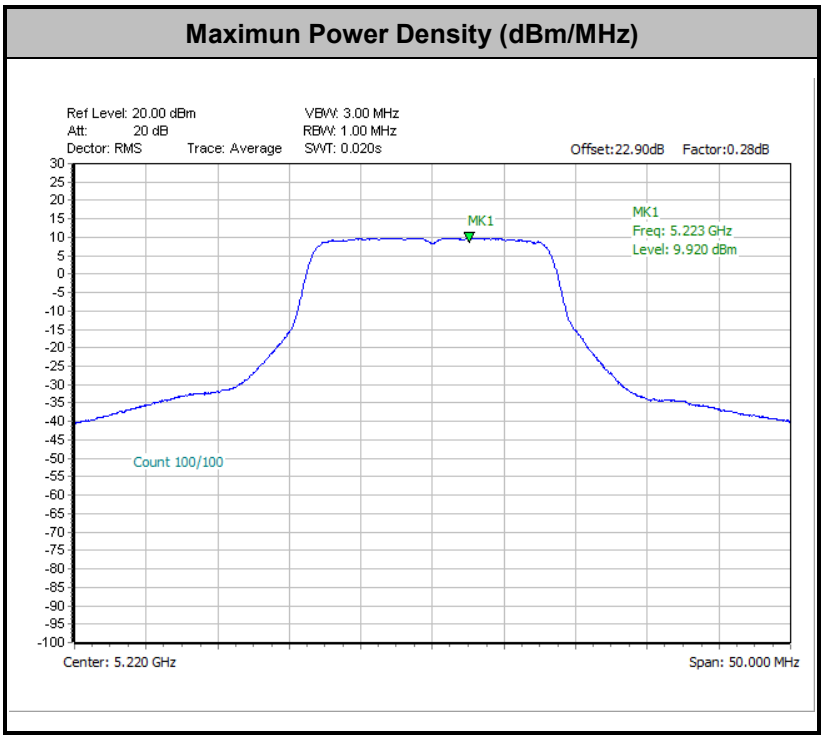

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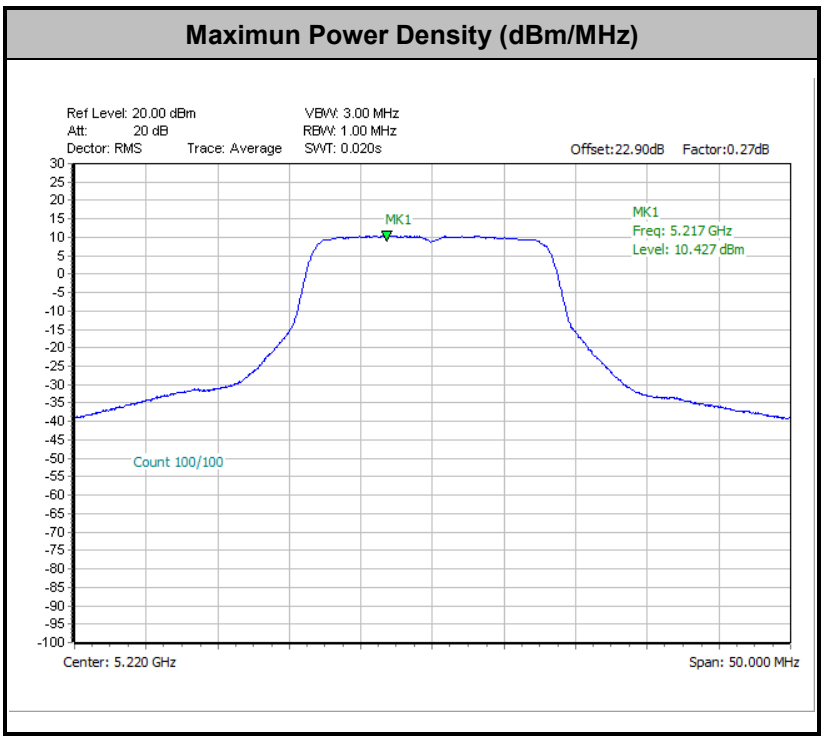

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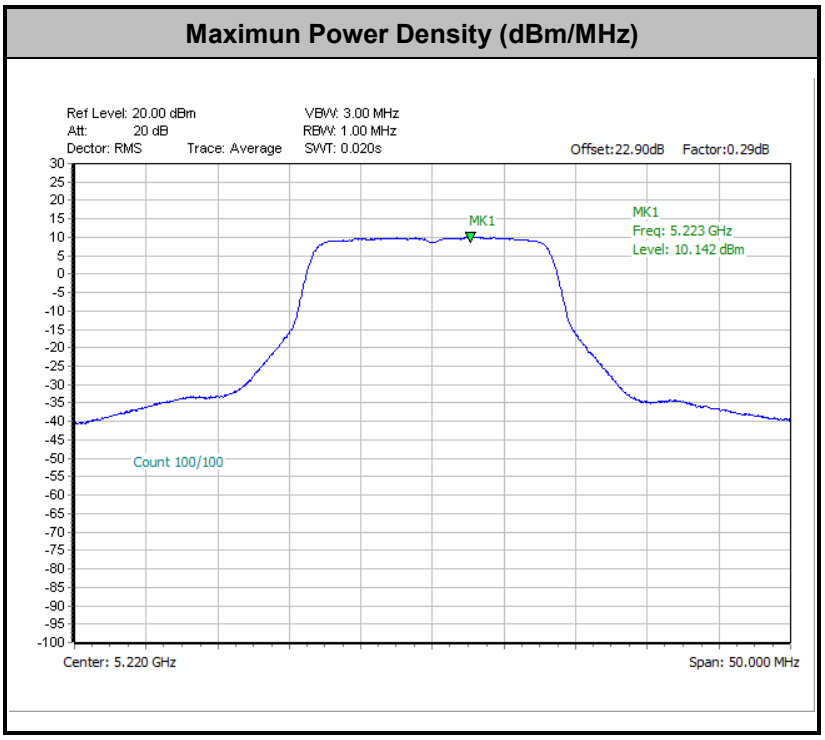
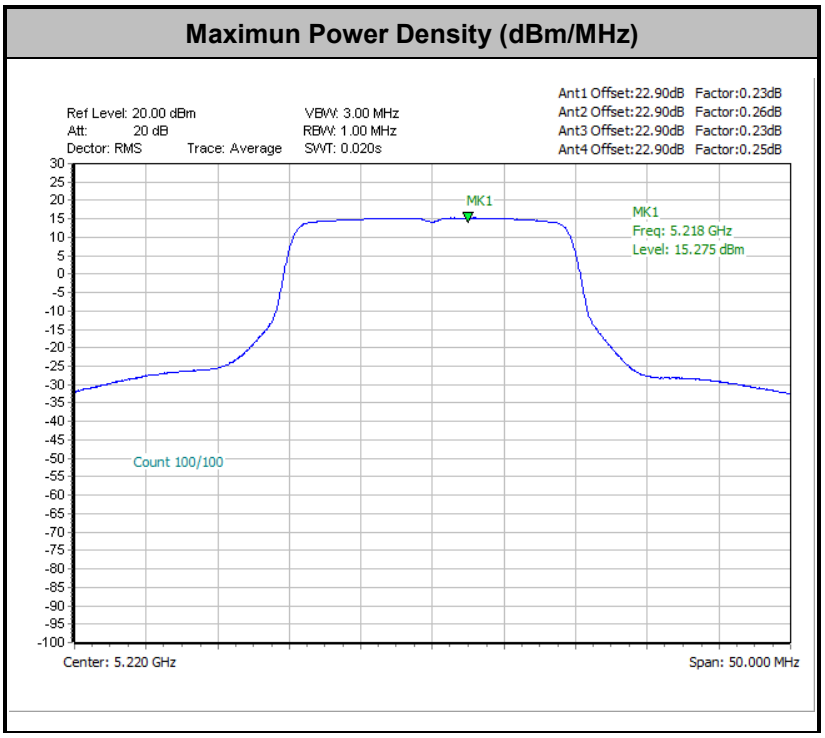


Note: Average Power Density (dB) = Measured value+ Duty Factor

<802.11ax mode>

<MIMO Ant. A + D + B + C>



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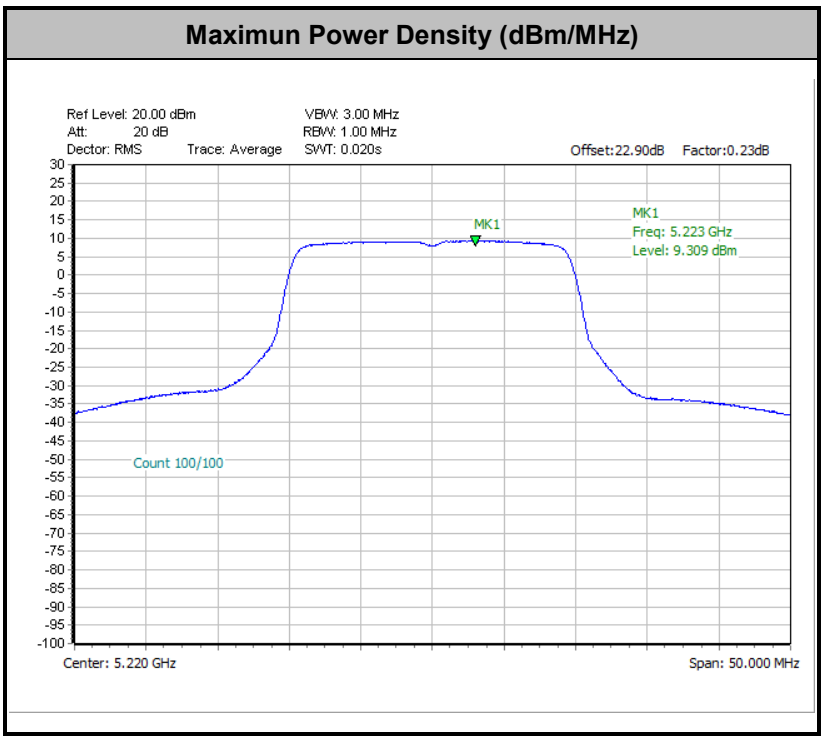

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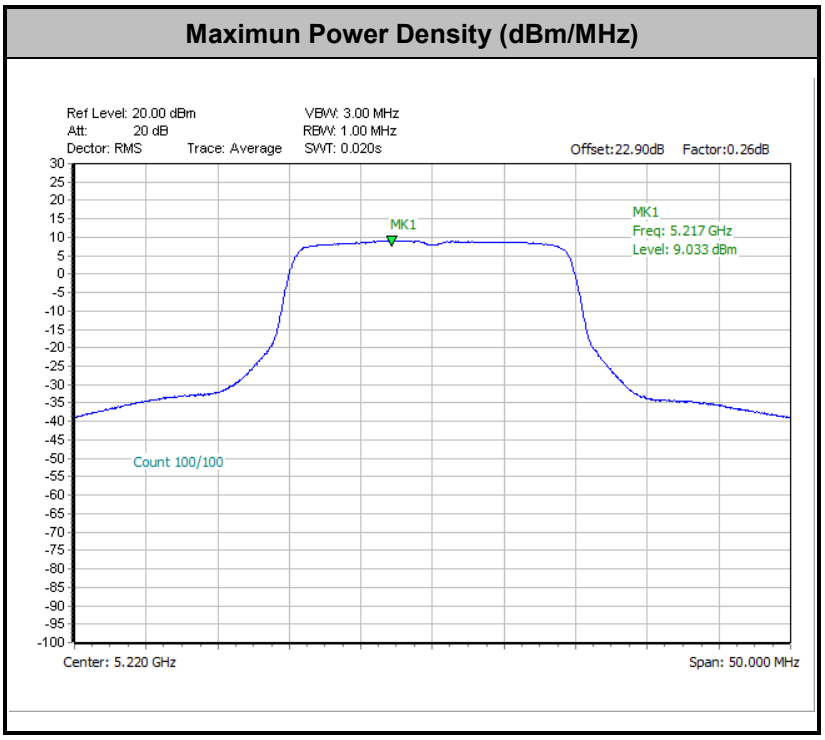

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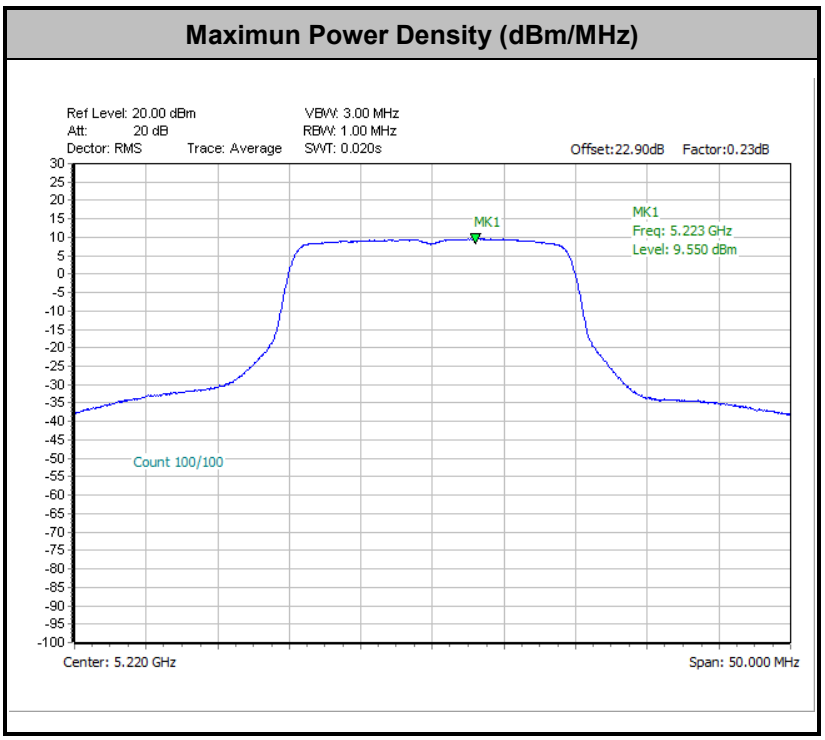

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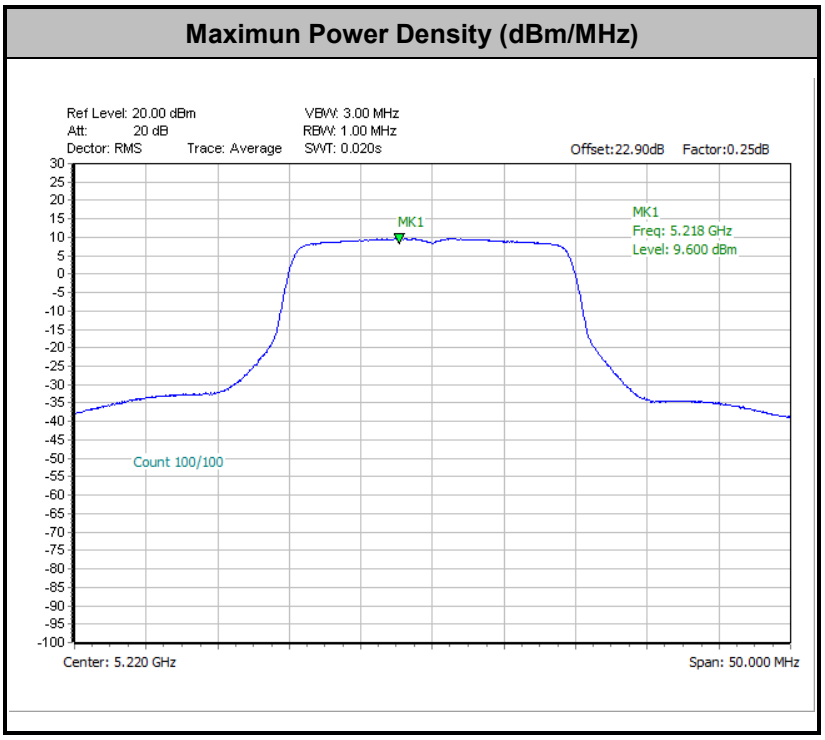
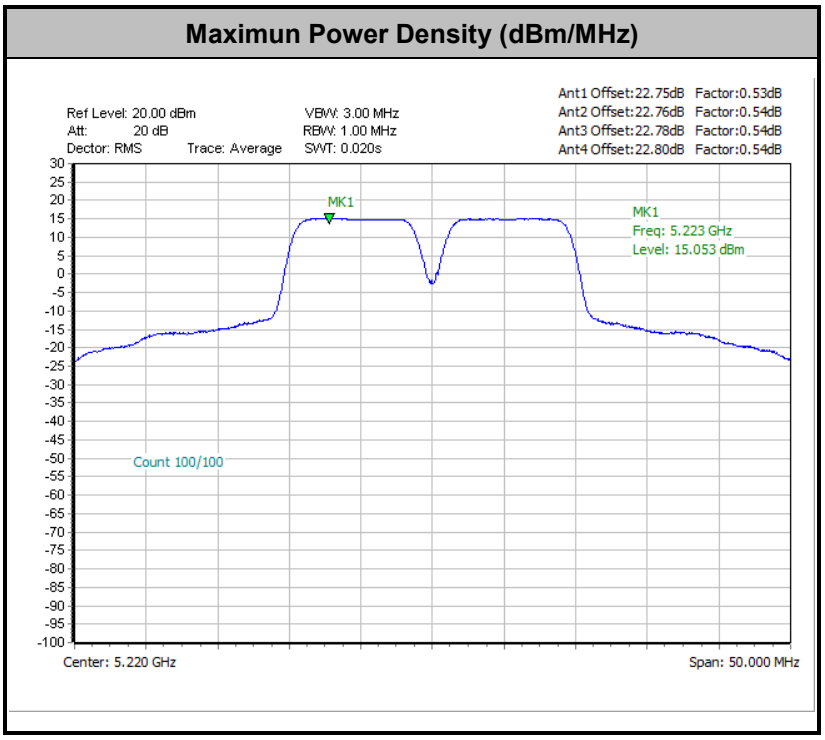


Note: Average Power Density (dB) = Measured value+ Duty Factor

<802.11ax HE20 partial RU 52*4 Mode >

<MIMO Ant. A + D + B + C>



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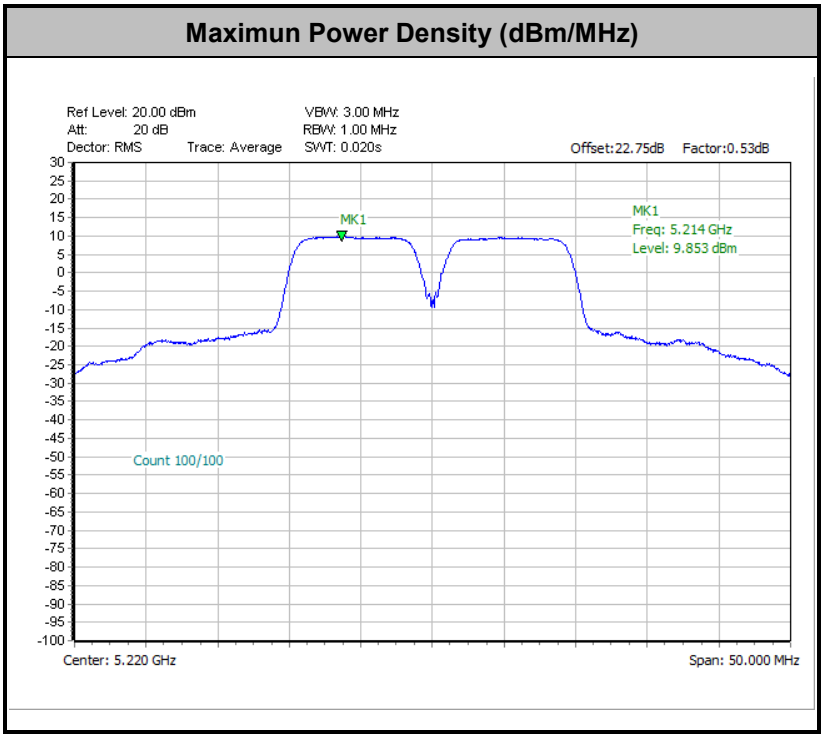

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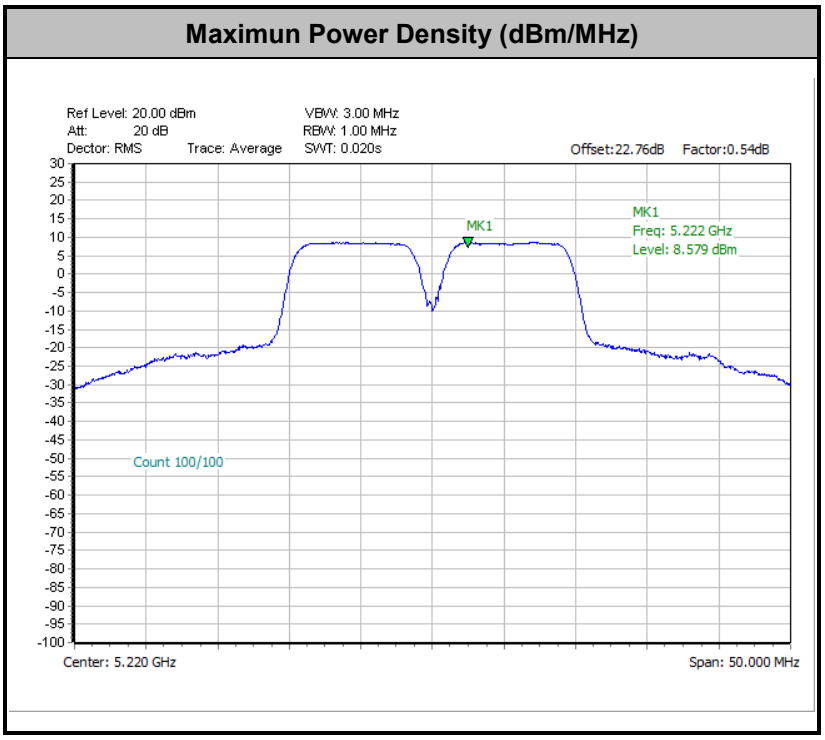

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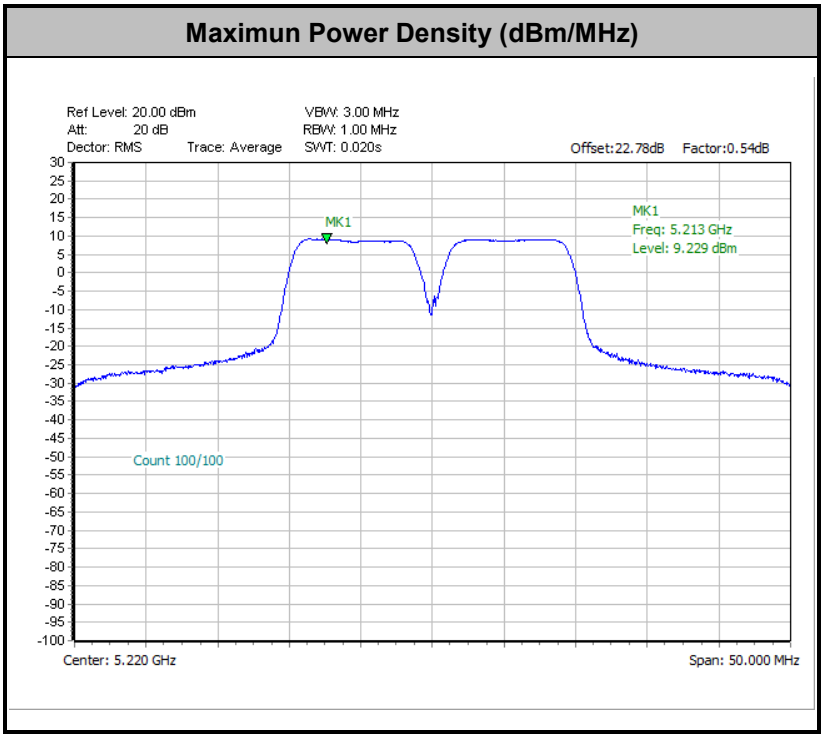

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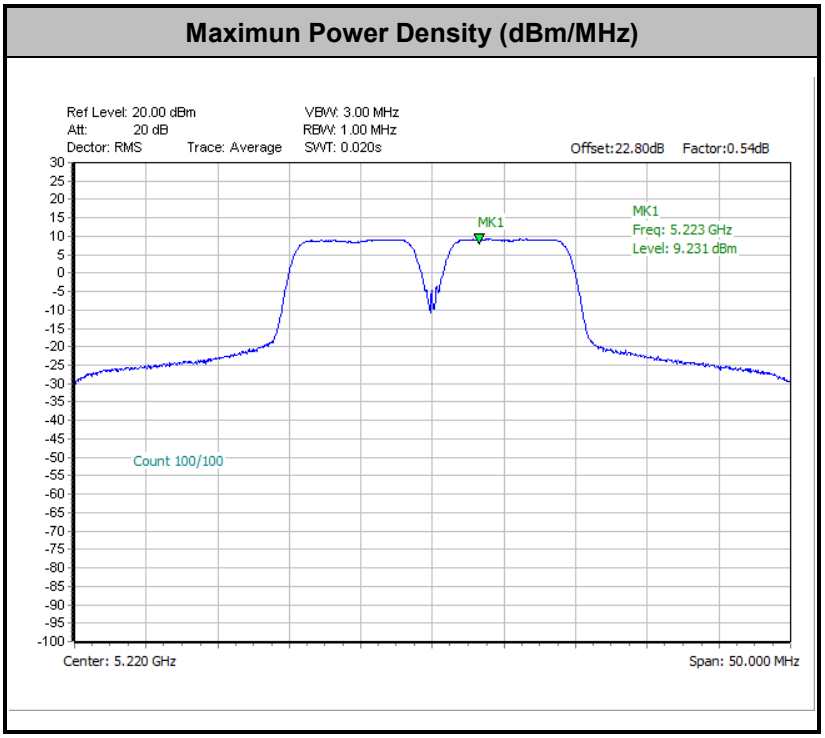
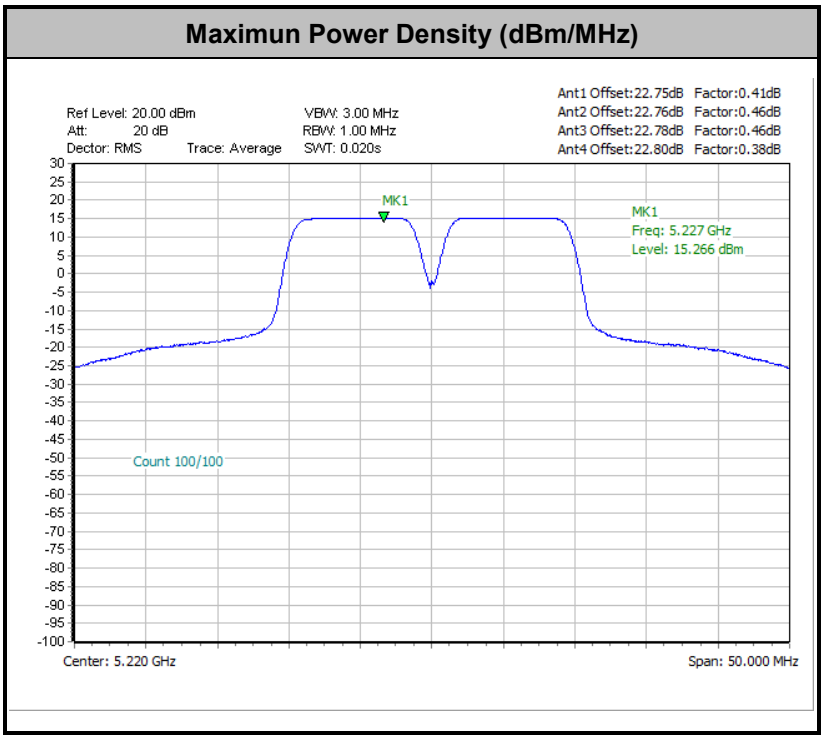


Note: Average Power Density (dB) = Measured value+ Duty Factor

<802.11ax HE20 partial RU 106*2 Mode >

<MIMO Ant. A + D + B + C>



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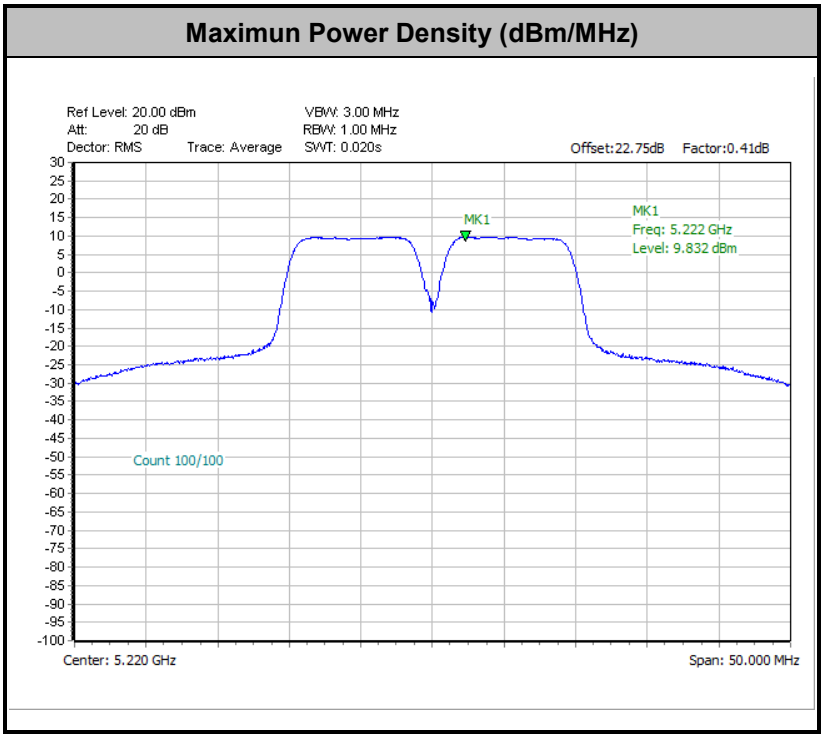

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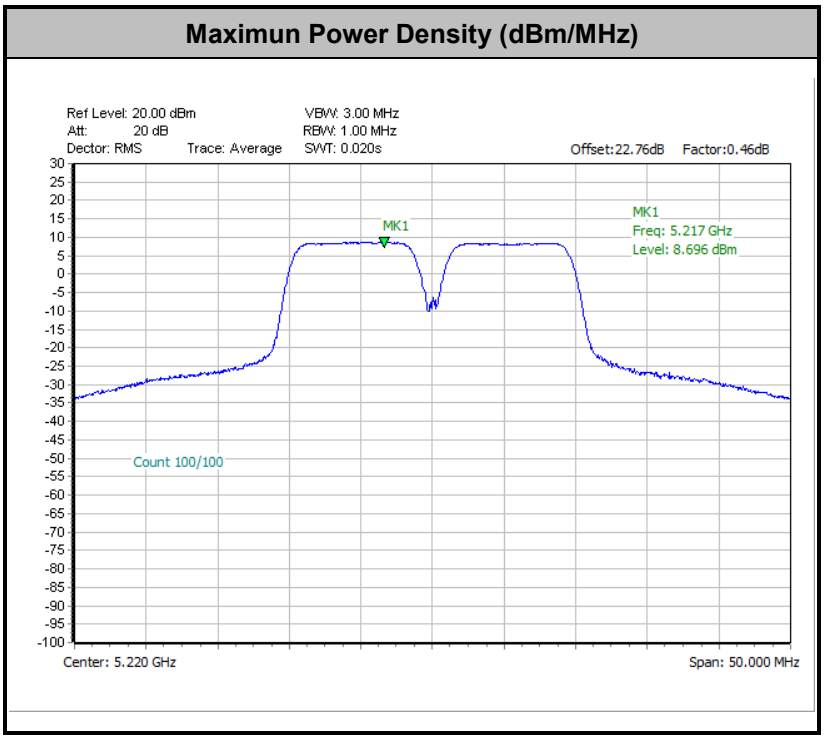

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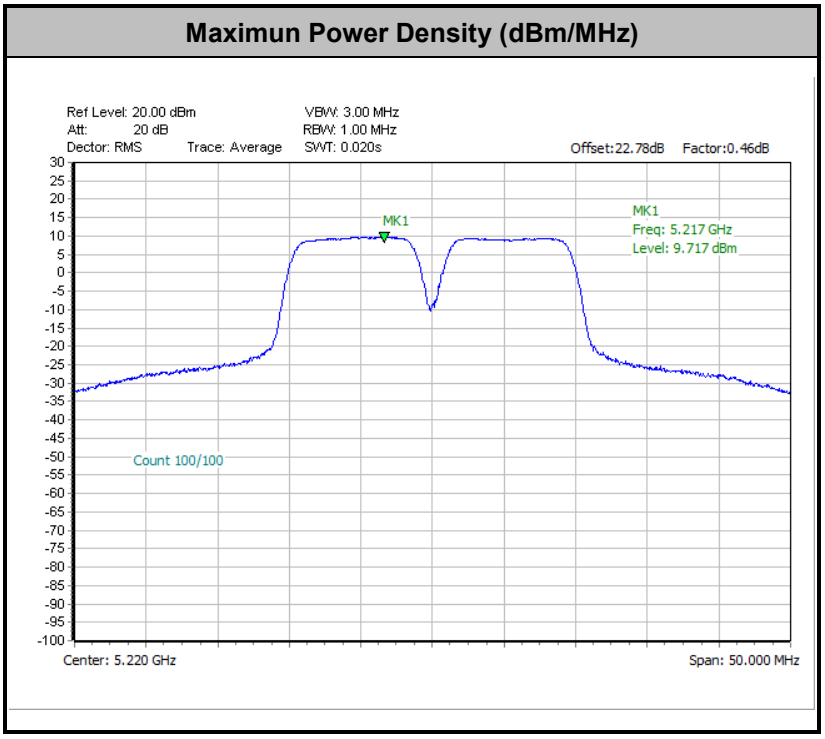

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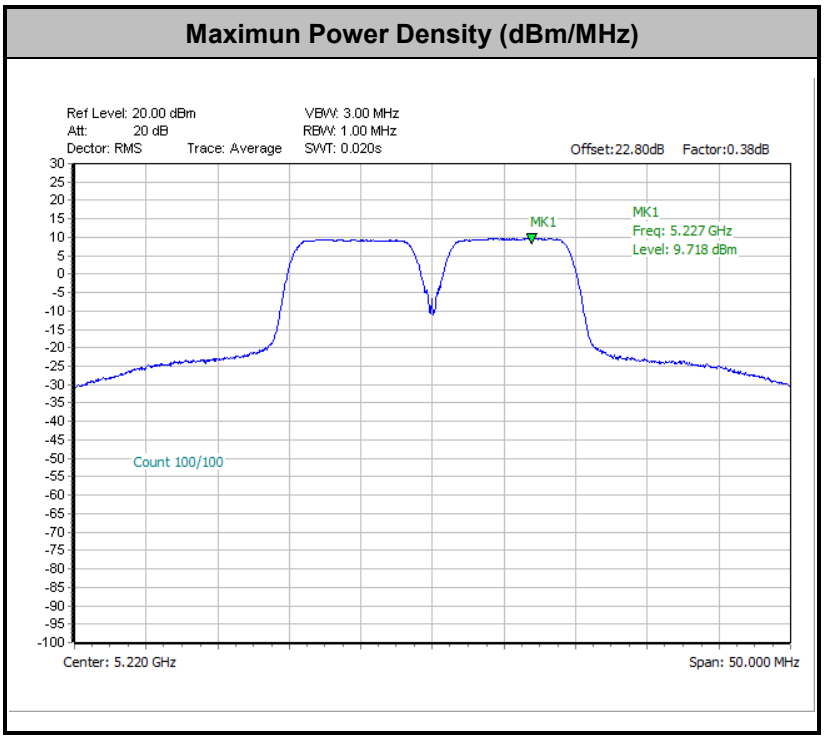


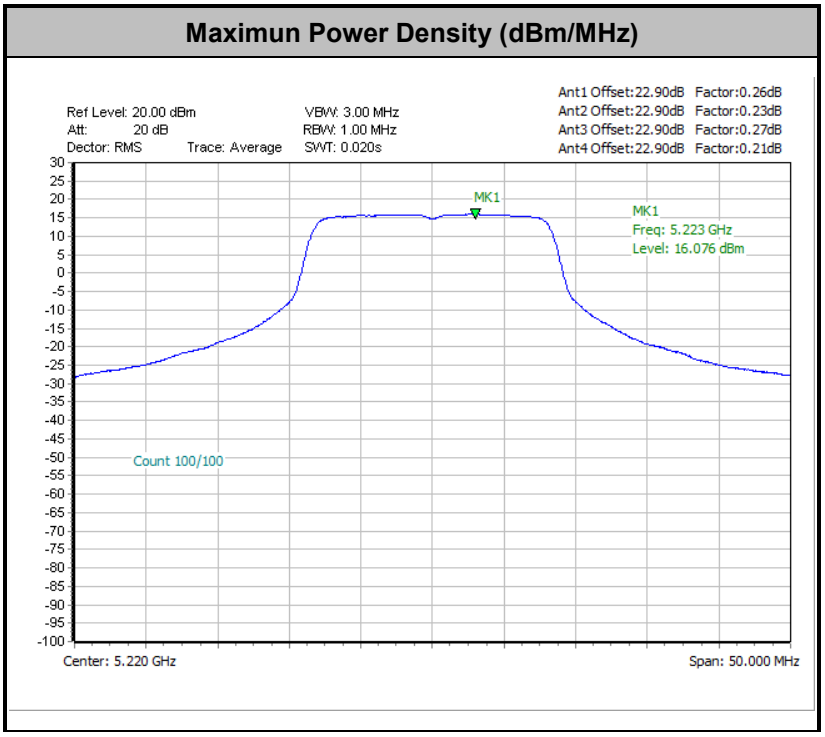
Note: Average Power Density (dB) = Measured value+ Duty Factor

< Radio 2>

<CDD Mode>

<802.11a mode >

<MIMO Ant. A+D+B+C>



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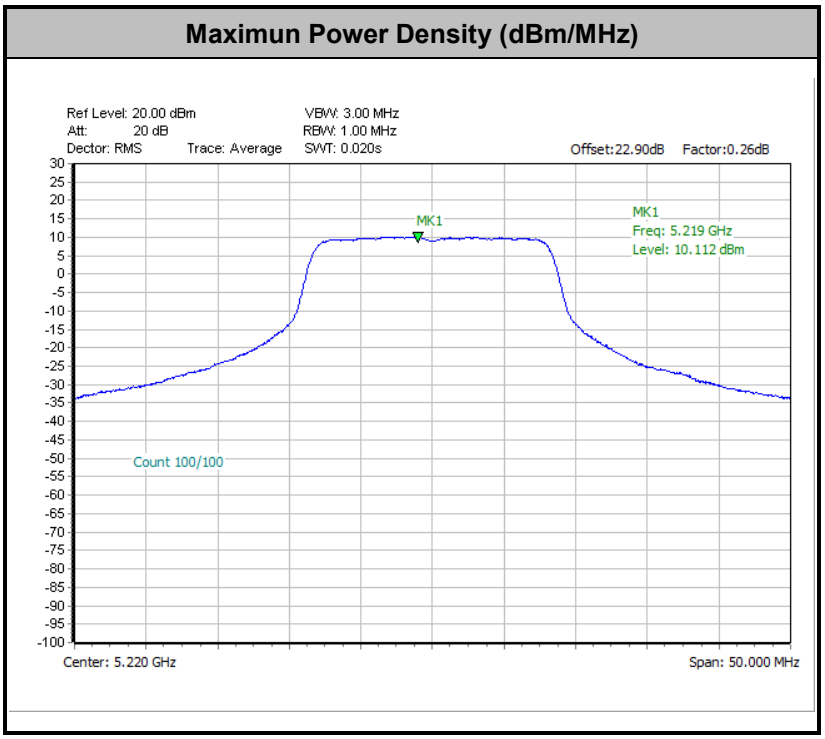

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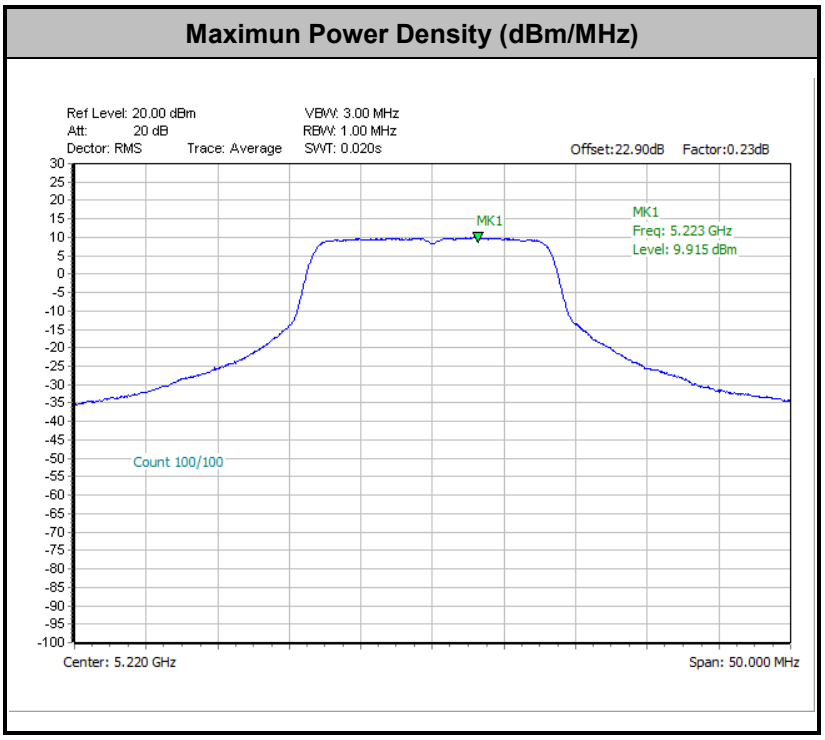

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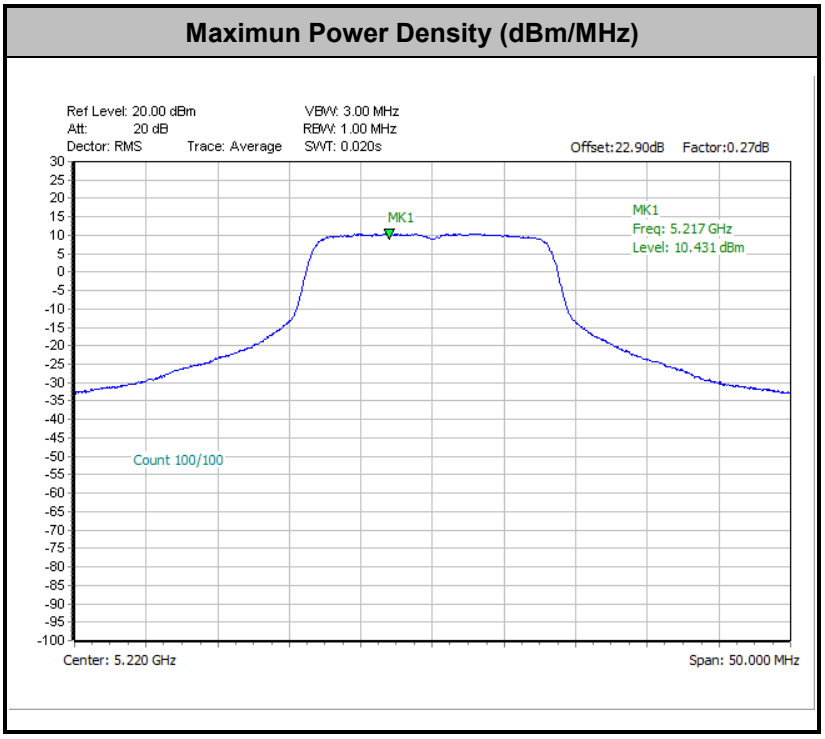

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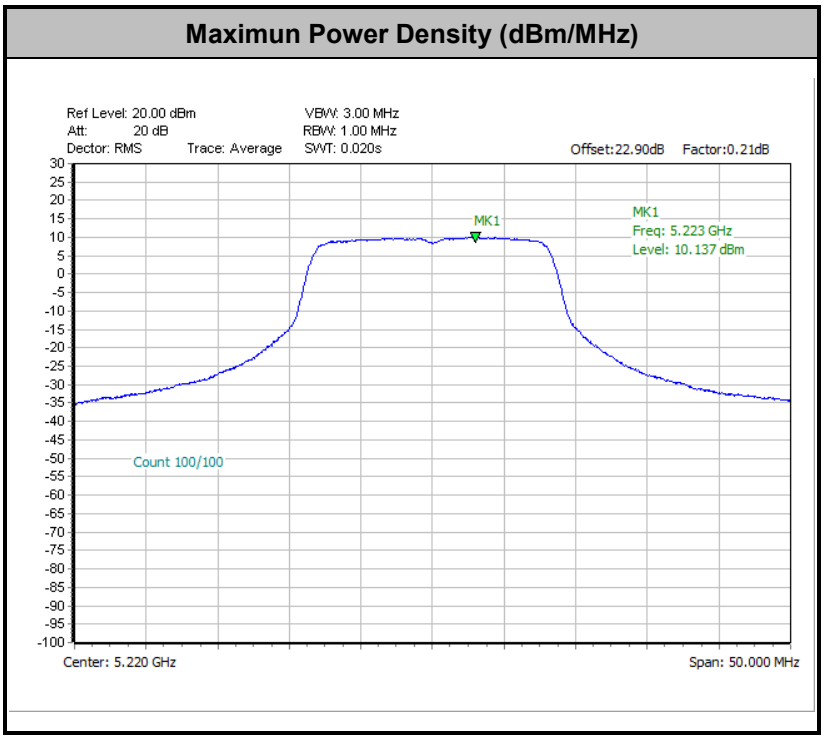
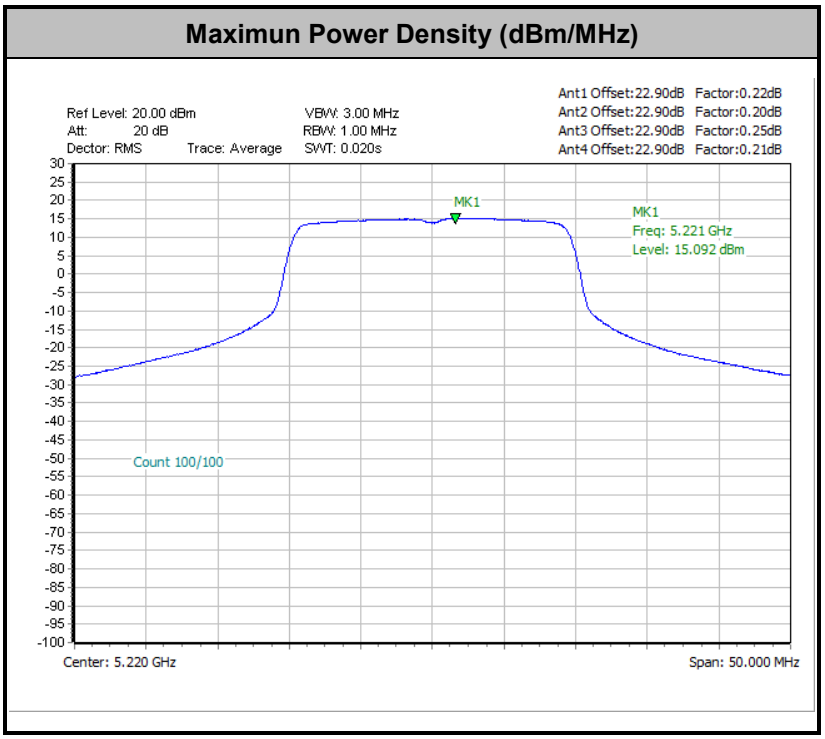


Note: Average Power Density (dB) = Measured value+ Duty Factor

<802.11ax mode>

<MIMO Ant. A+D+B+C>



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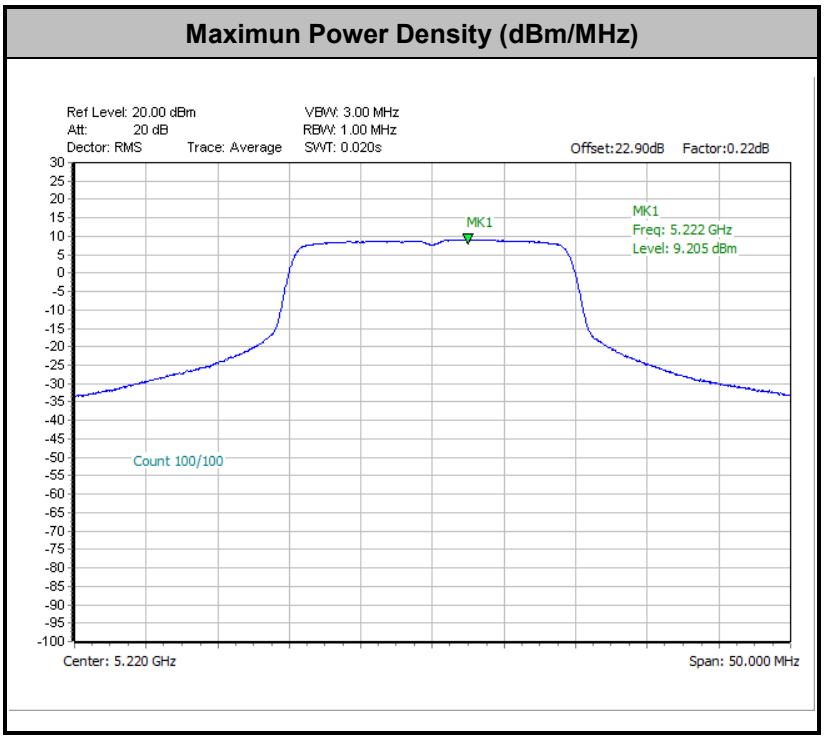

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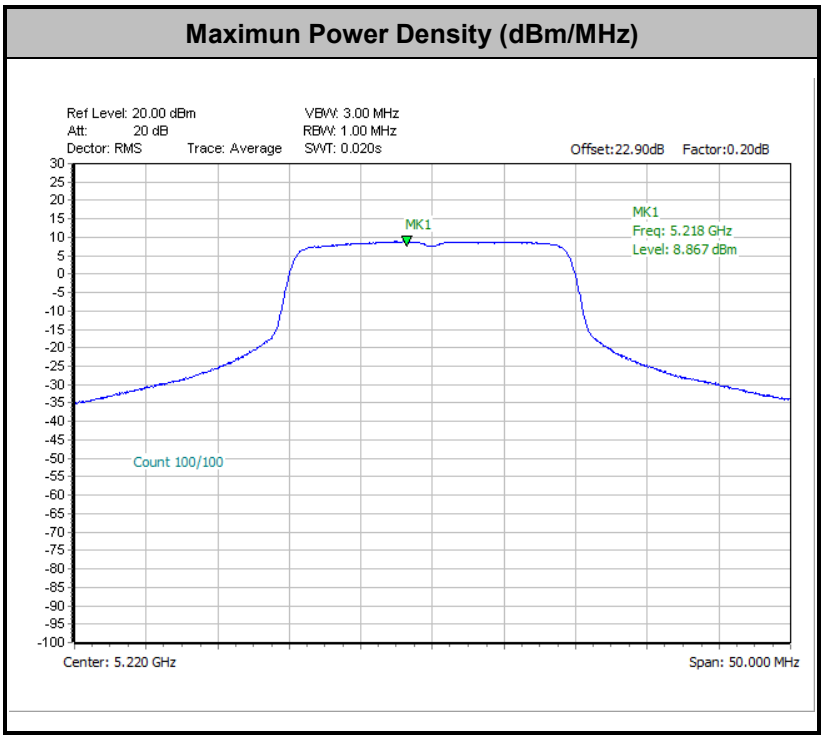

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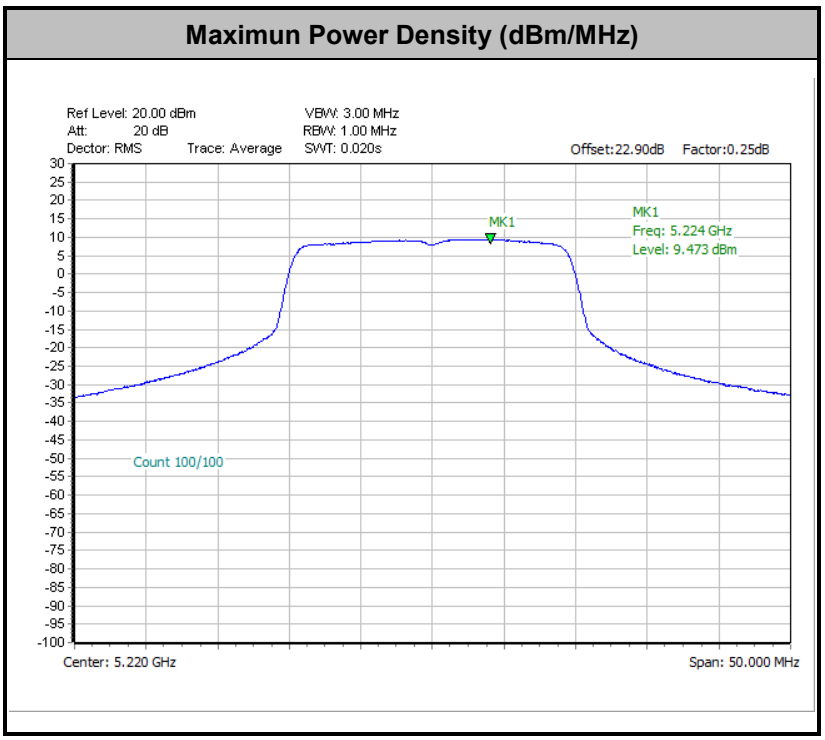

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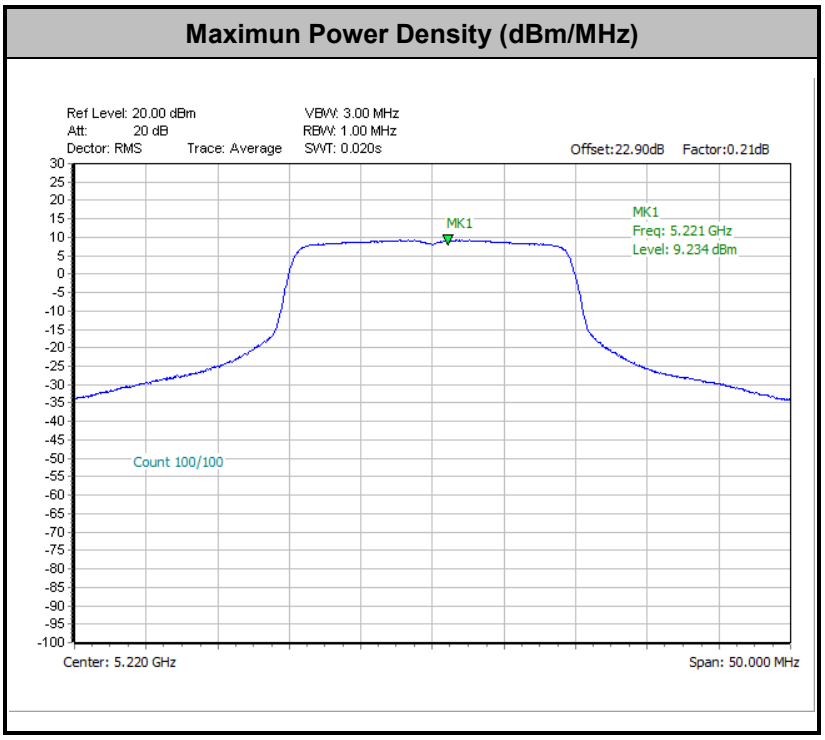
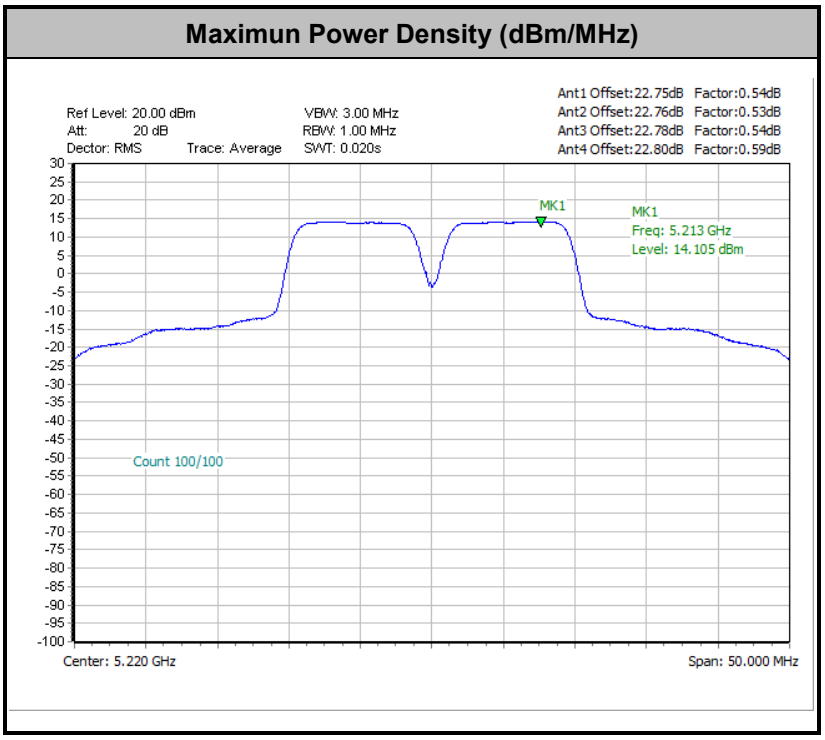


Note: Average Power Density (dB) = Measured value+ Duty Factor

<802.11ax HE20 partial RU 52*4 Mode >

<MIMO Ant. A + D + B + C>



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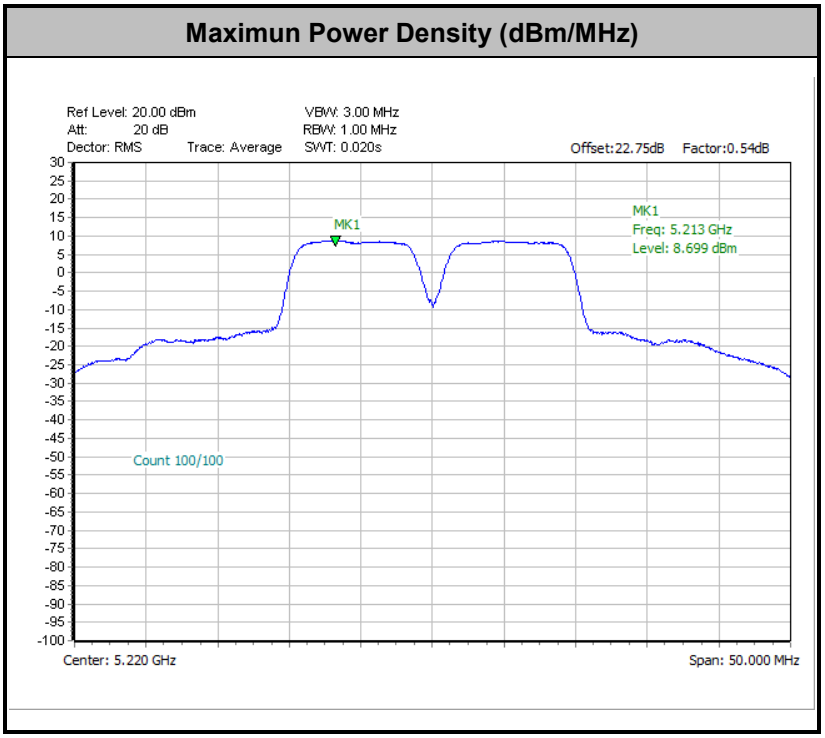

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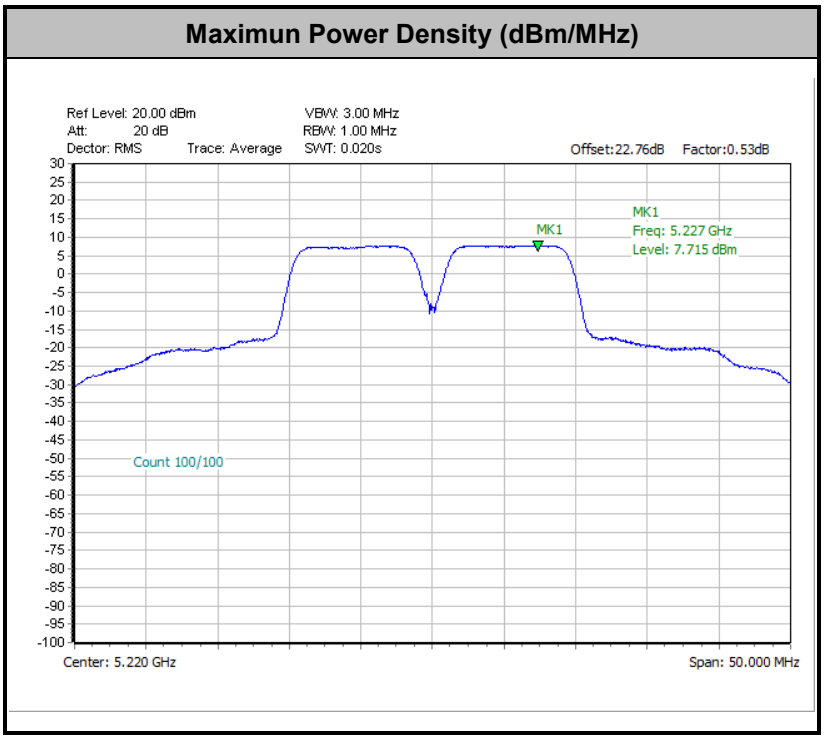

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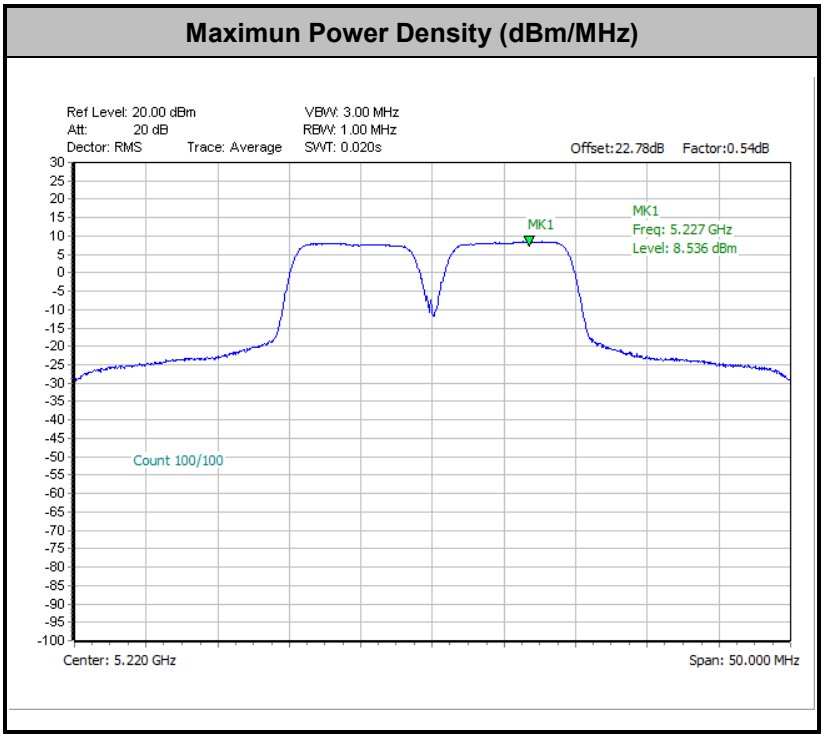

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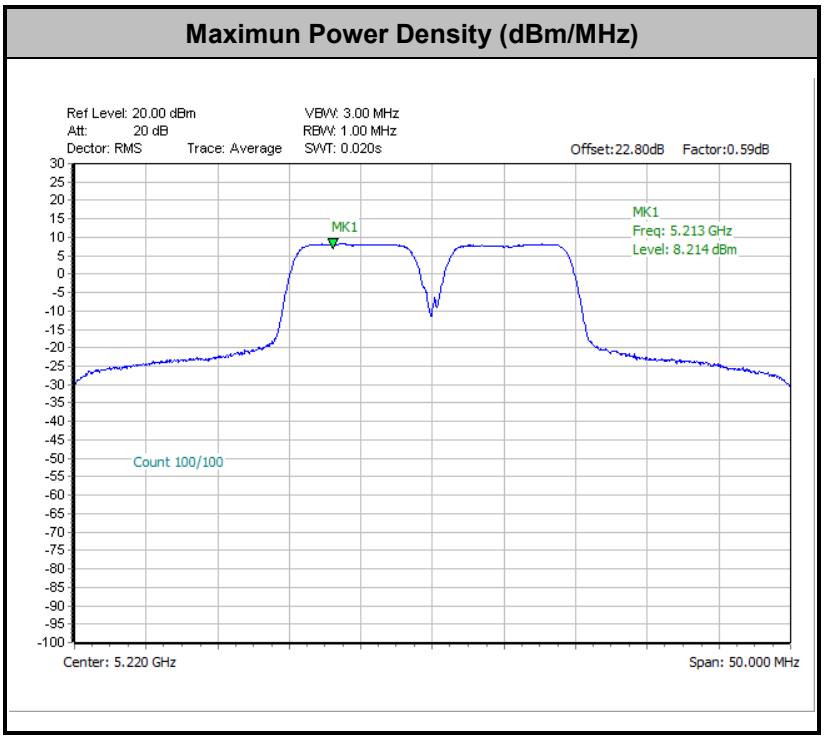
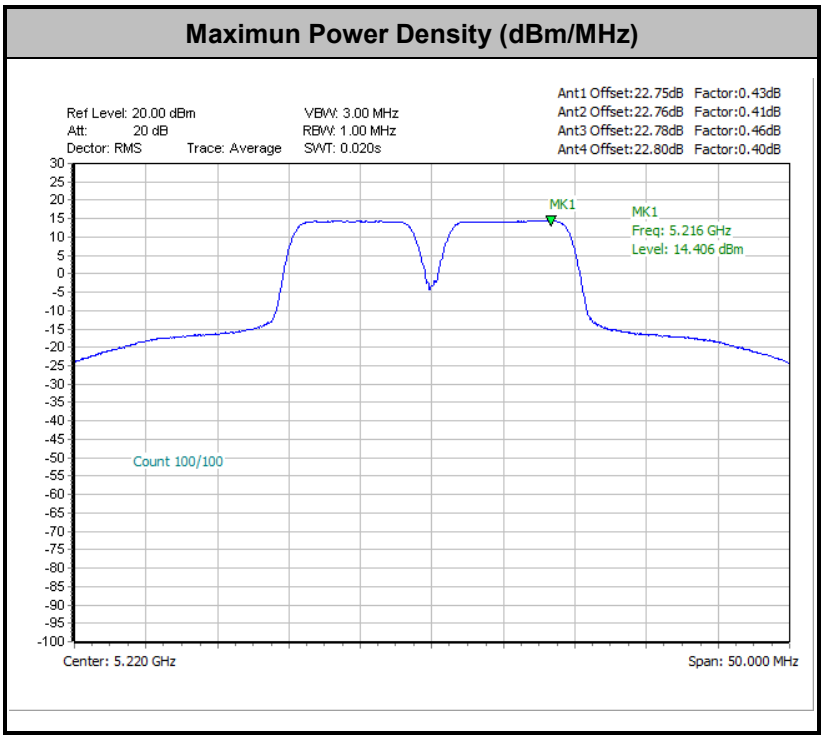


Note: Average Power Density (dB) = Measured value+ Duty Factor

<802.11ax HE20 partial RU 106*2 Mode >

<MIMO Ant. A + D + B + C>



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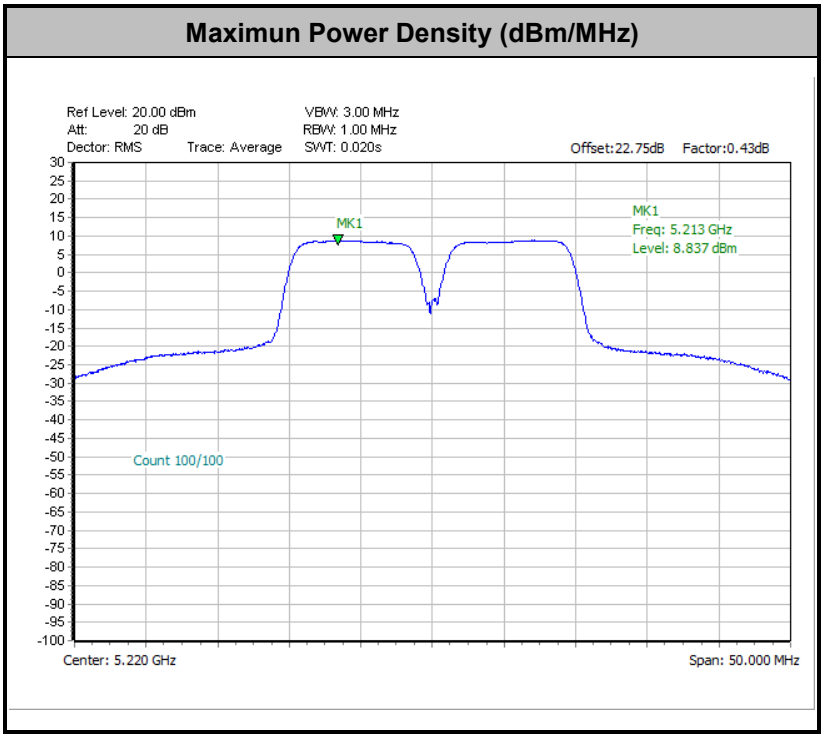

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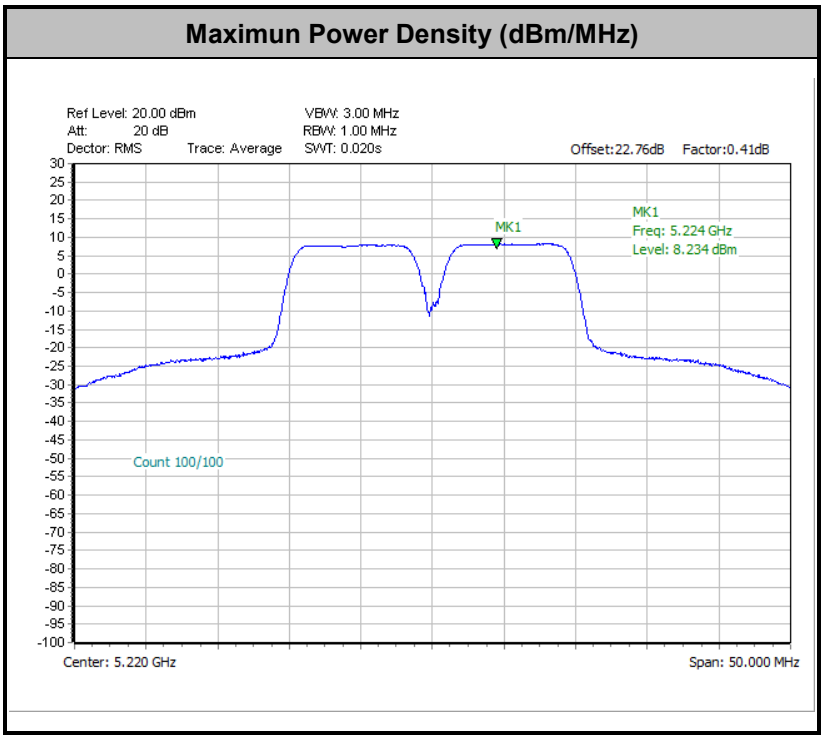

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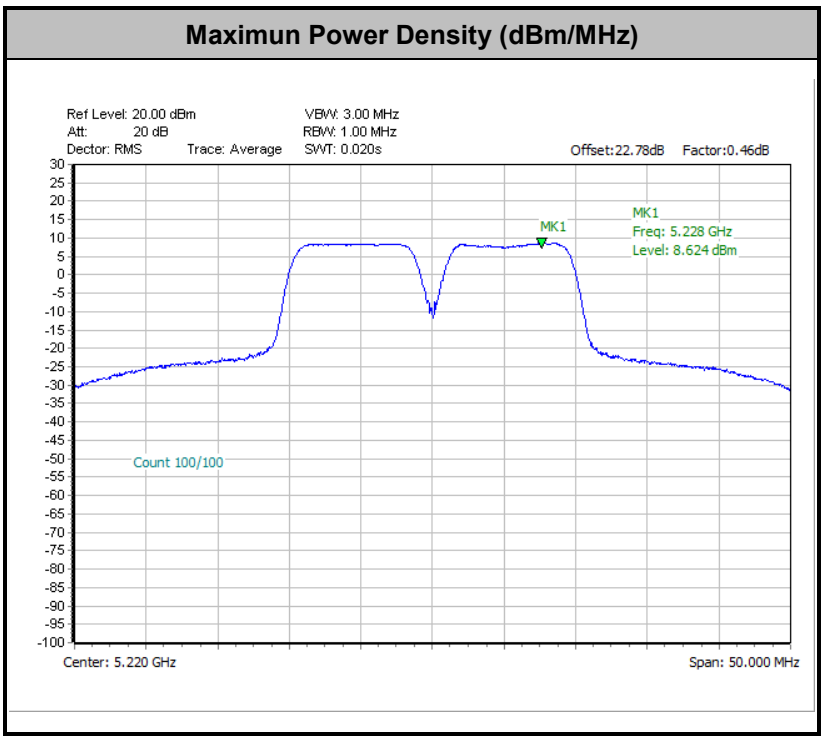

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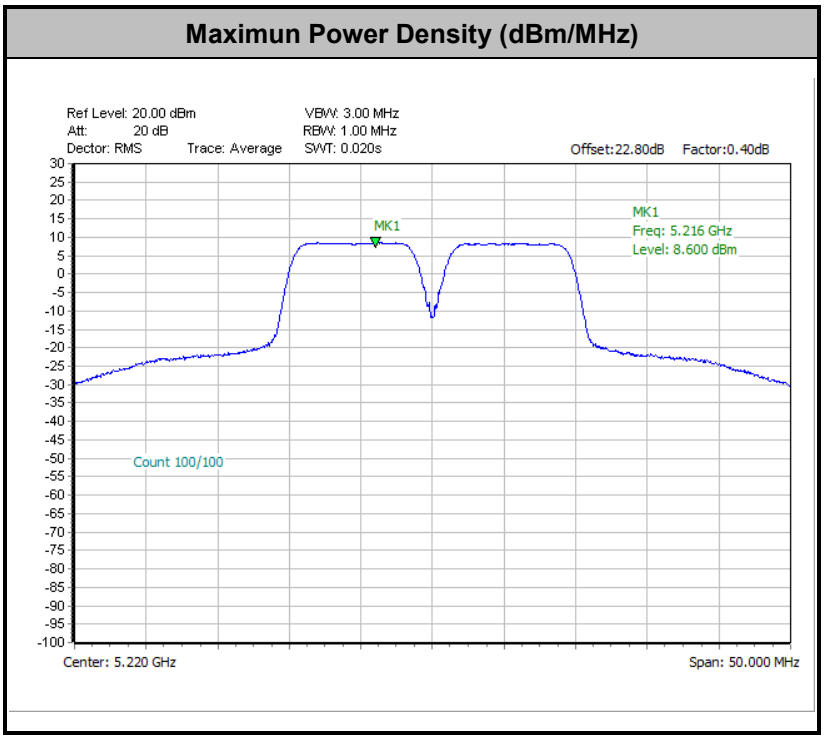
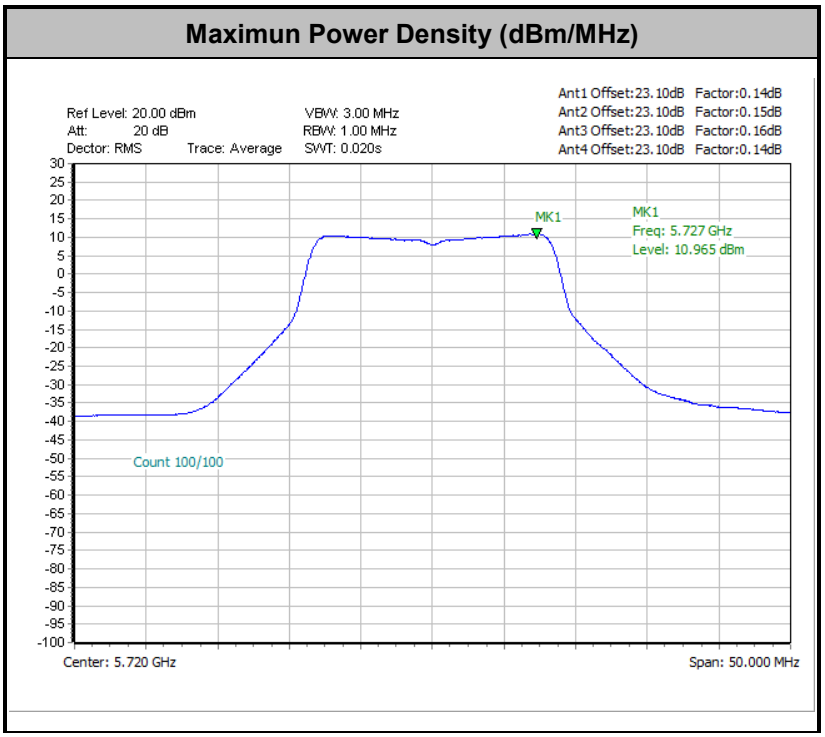


Note: Average Power Density (dB) = Measured value+ Duty Factor

<Radio 3>

<802.11a Mode>

<MIMO Ant. E+H+F+G>



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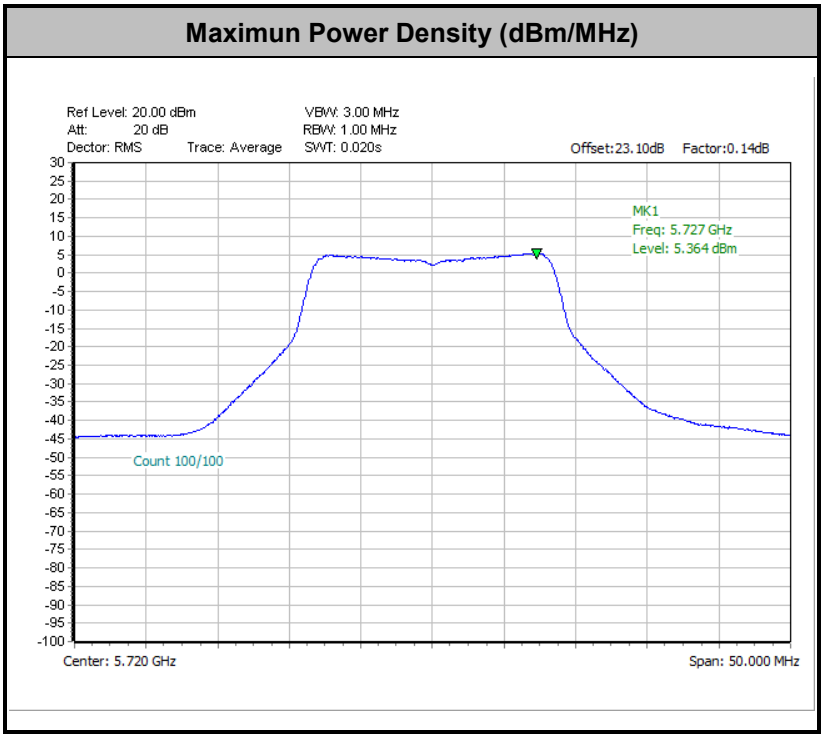

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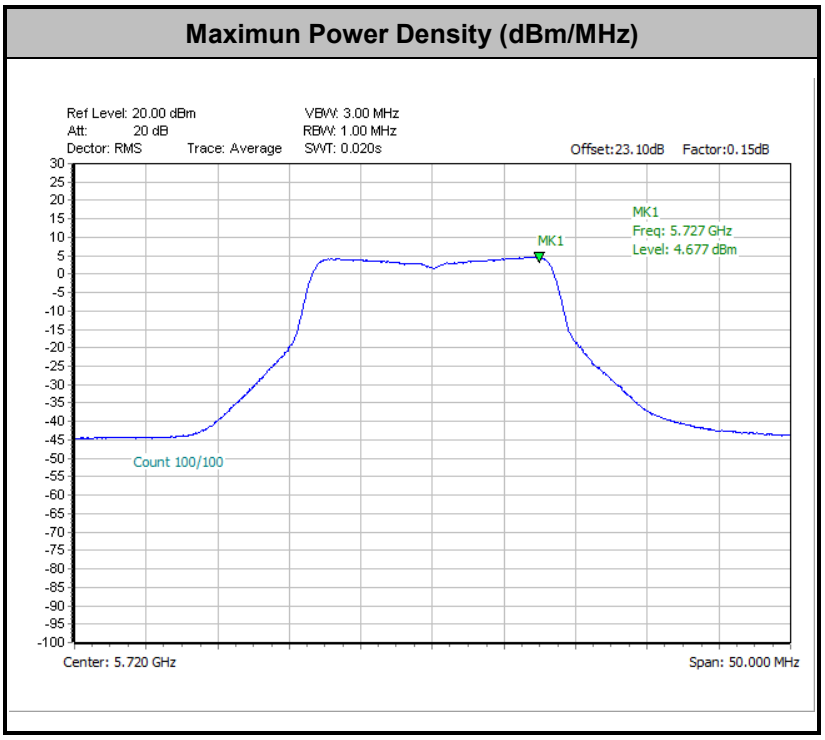

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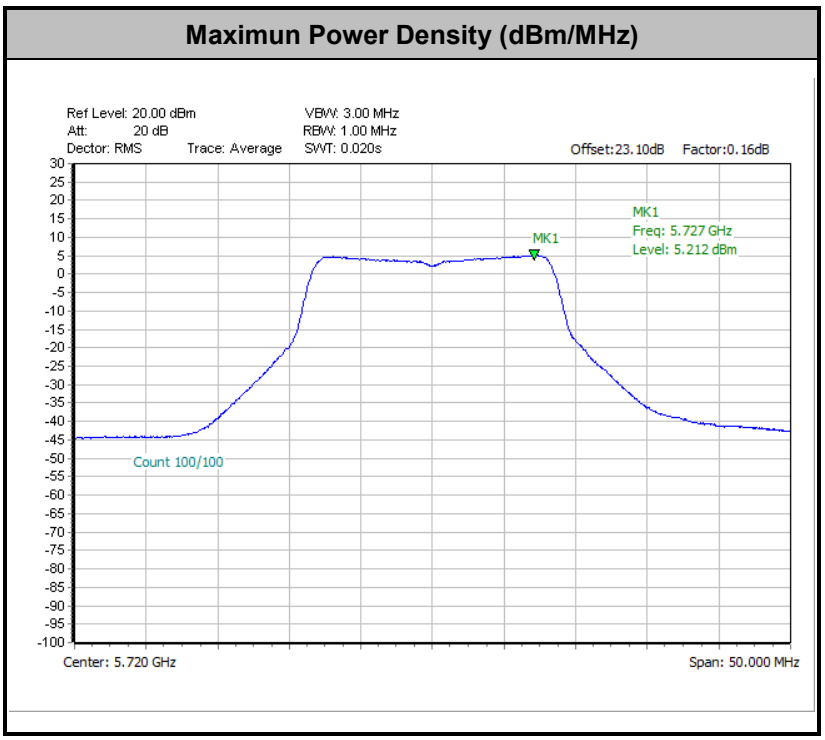

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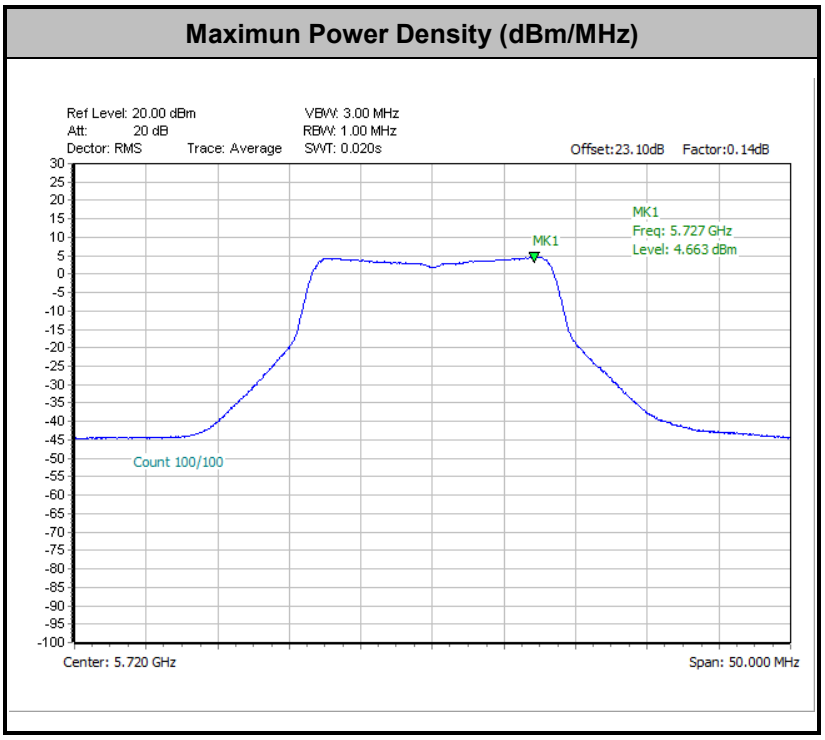
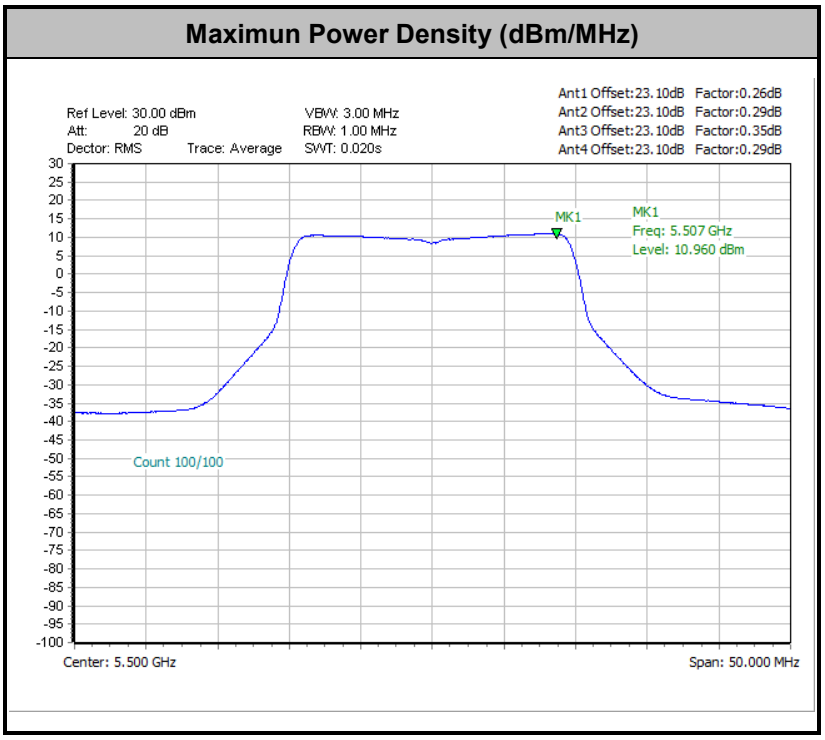


Note: Average Power Density (dB) = Measured value+ Duty Factor

<802.11ax mode>

<MIMO Ant. E+H+F+G>



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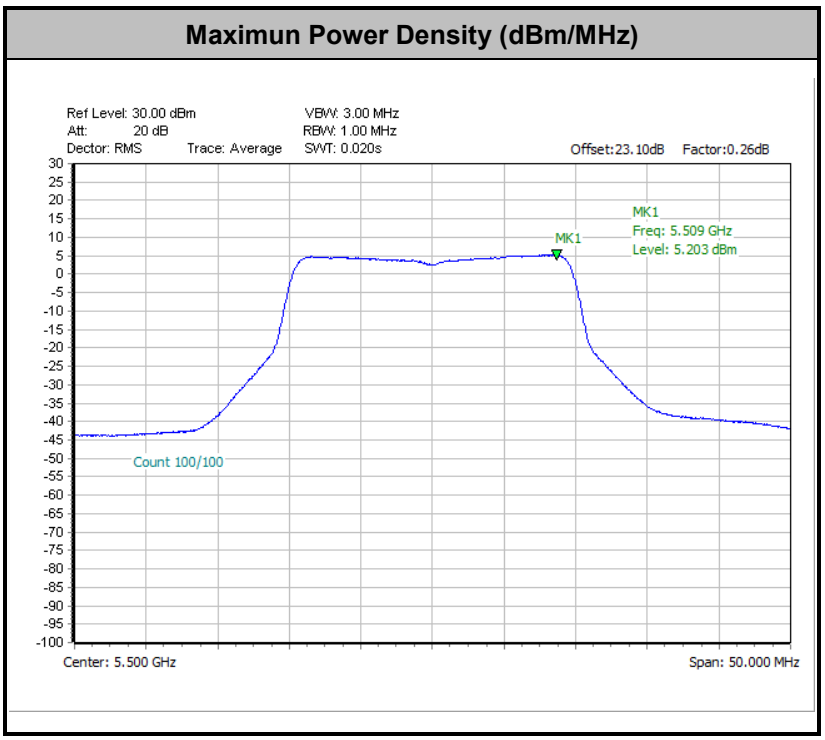

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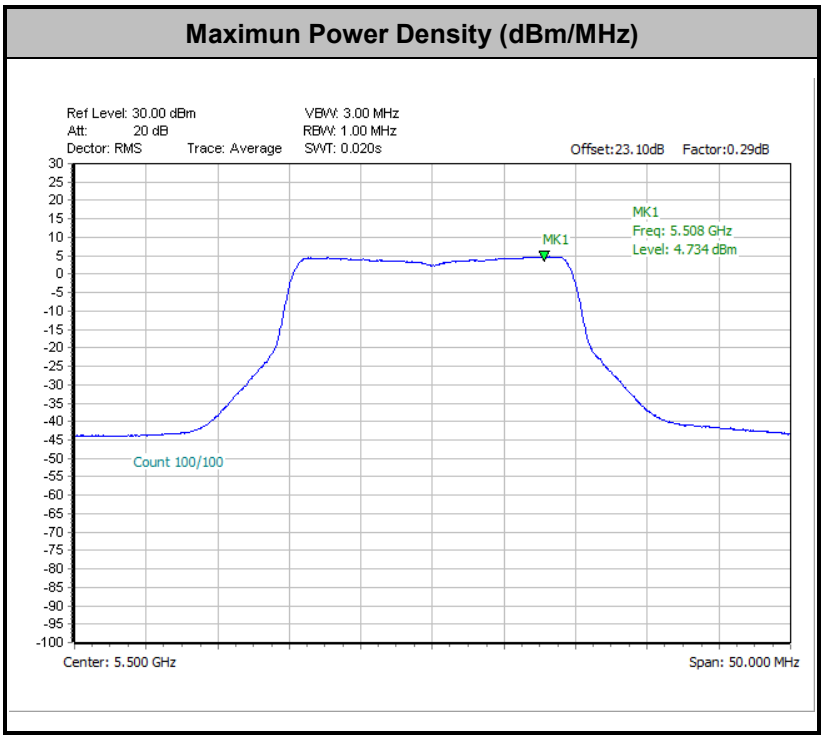

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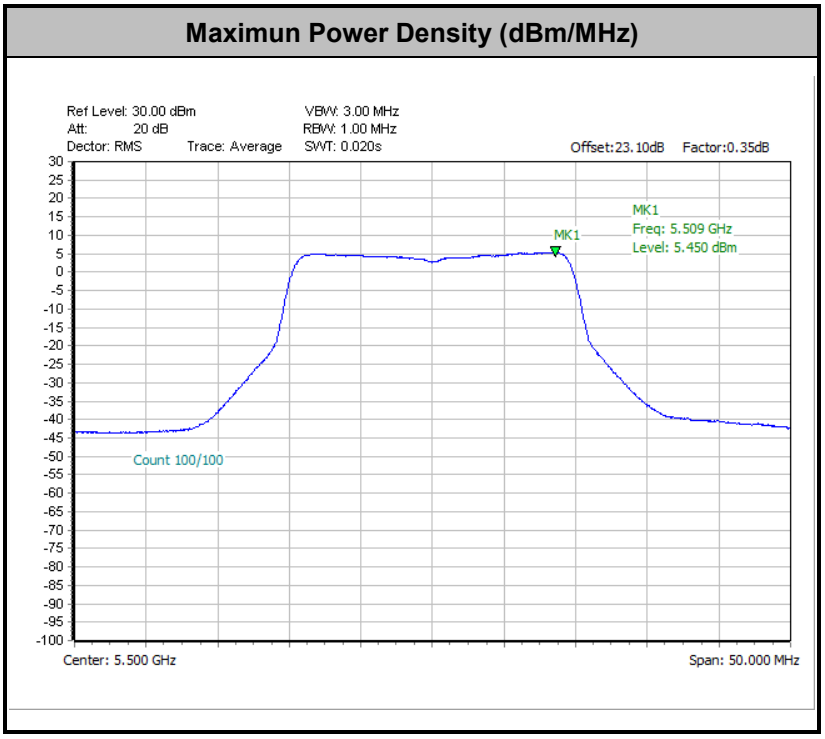
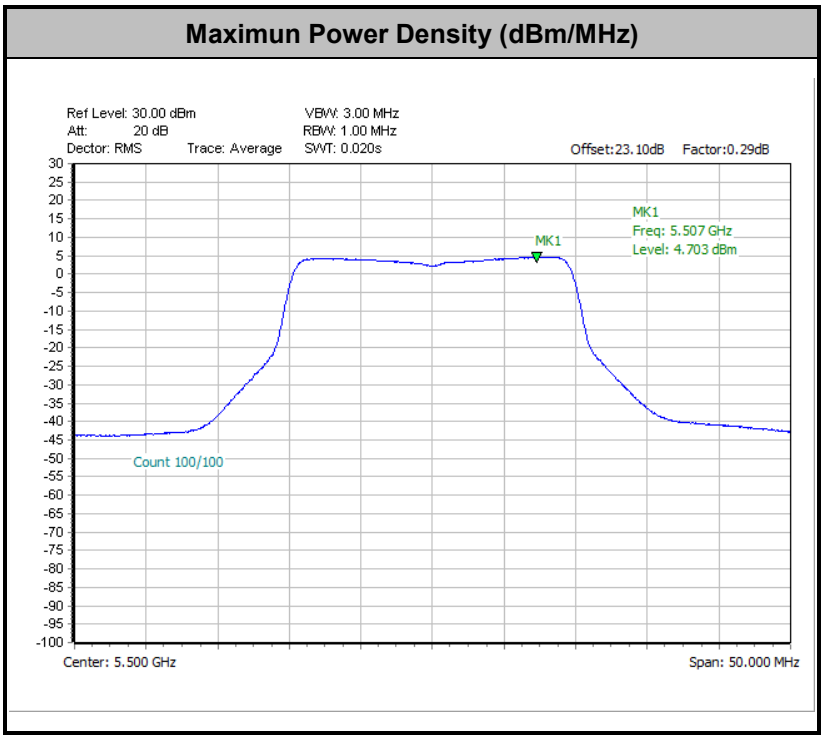


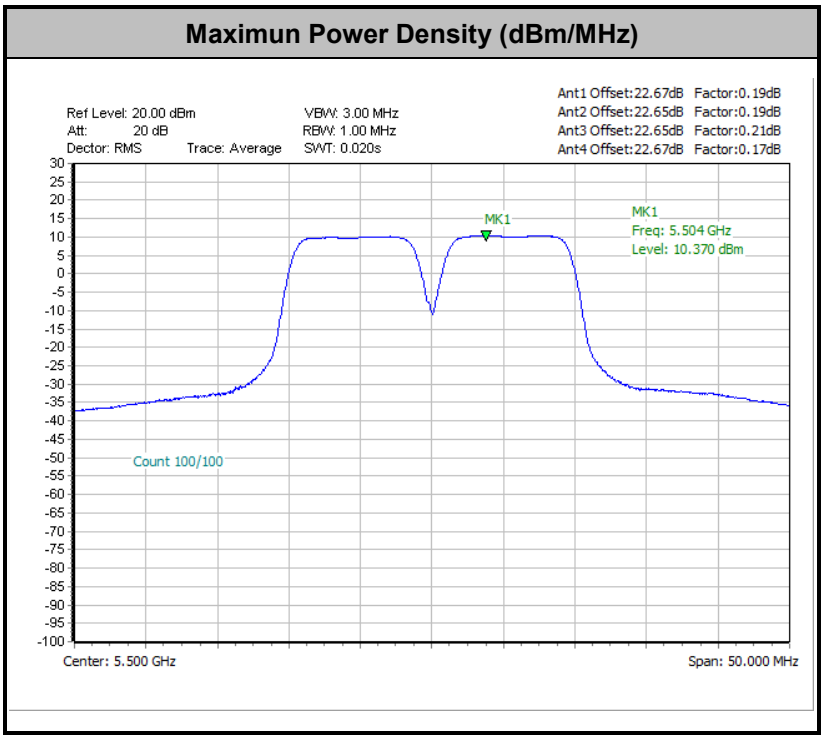
Trace 4 < Ant. G >



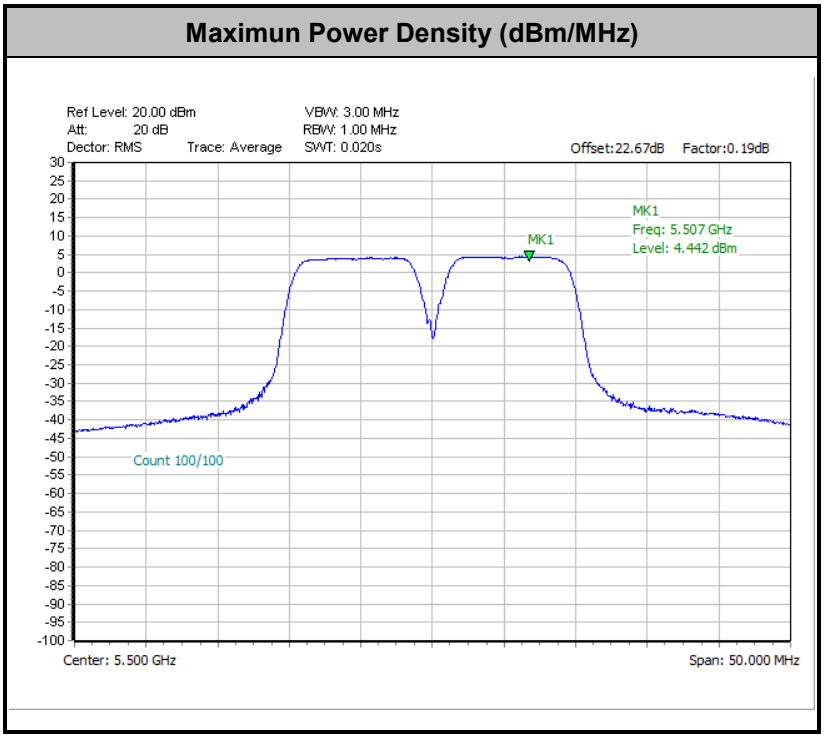
Note: Average Power Density (dB) = Measured value+ Duty Factor

<802.11ax HE20 partial RU 52*4 Mode >

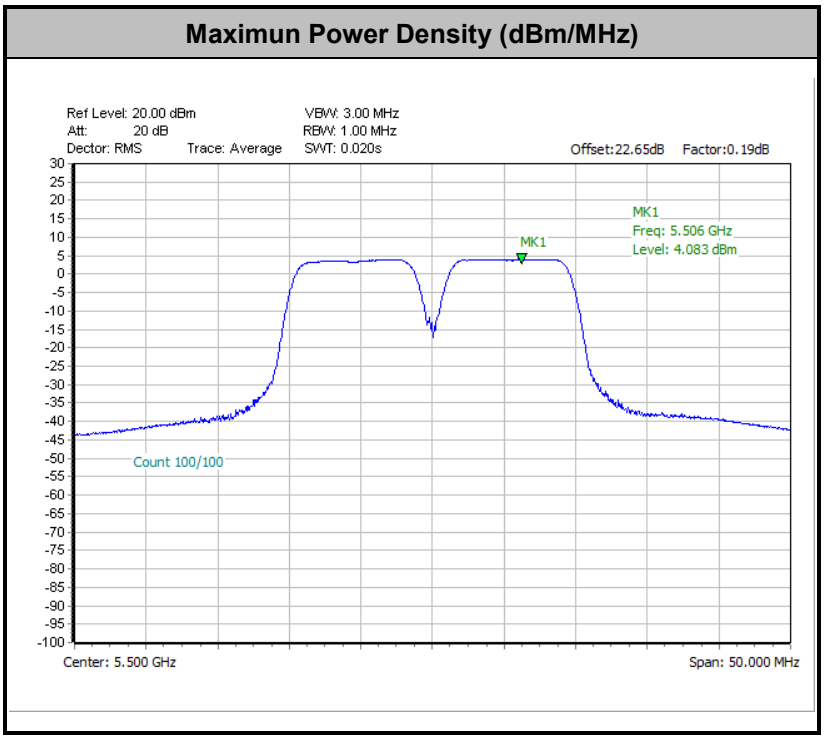
<MIMO Ant. E+H+F+G>



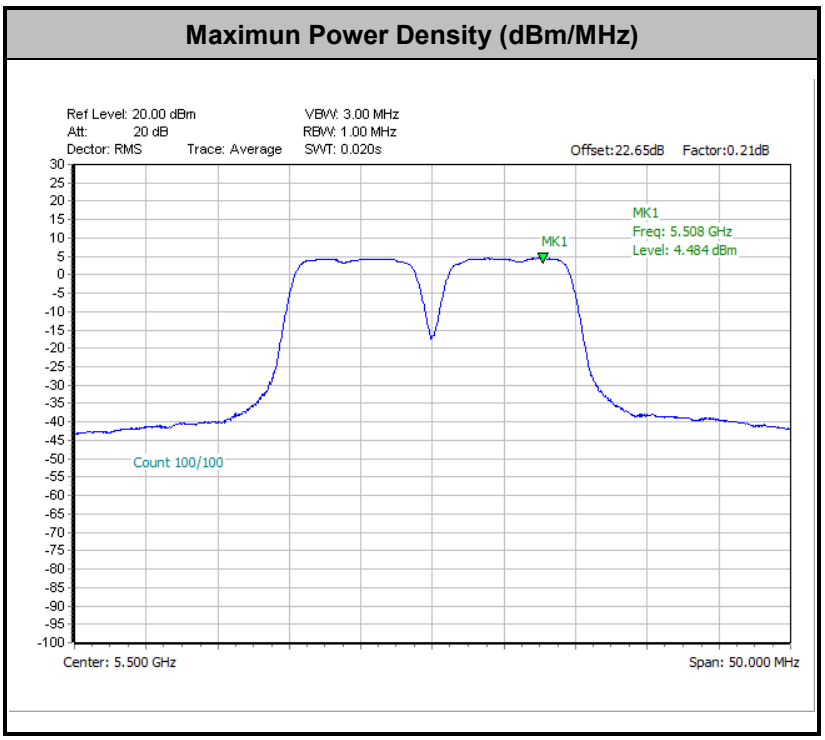
Trace 1 < Ant. E >



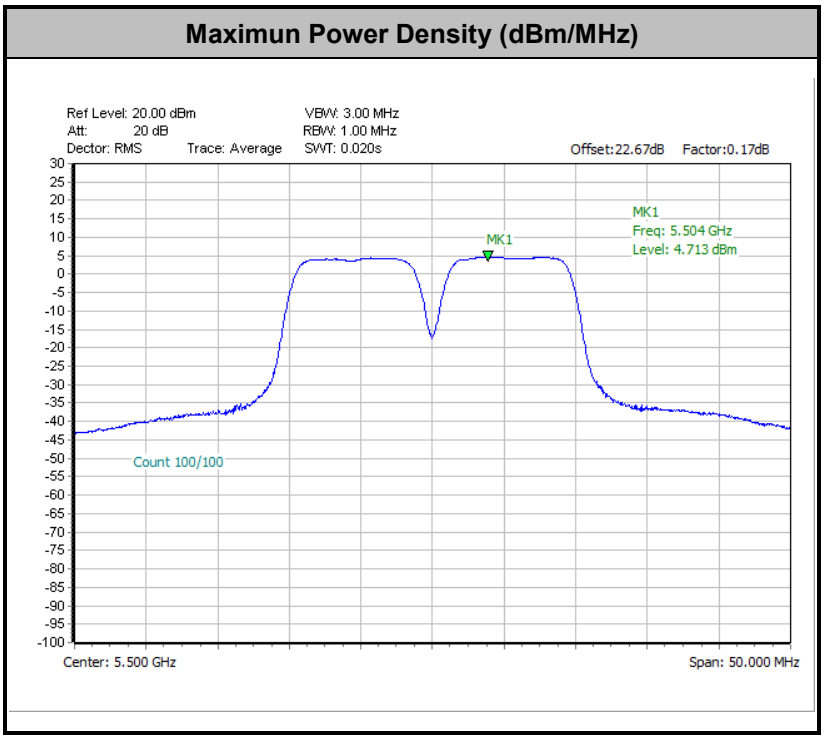
Trace 2 < Ant. H >



Trace 3 < Ant. F >



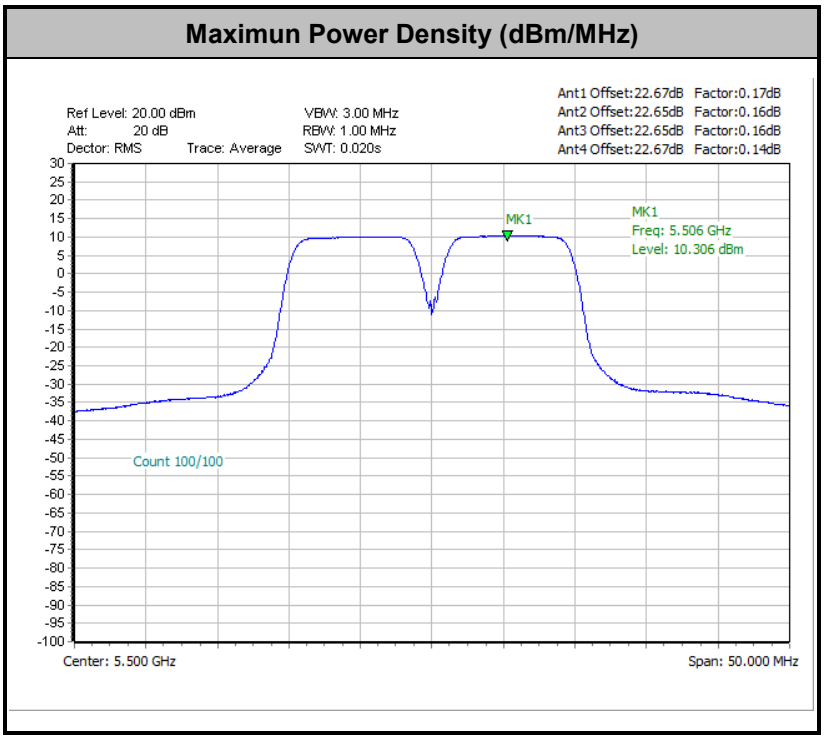
Trace 4 < Ant. G >



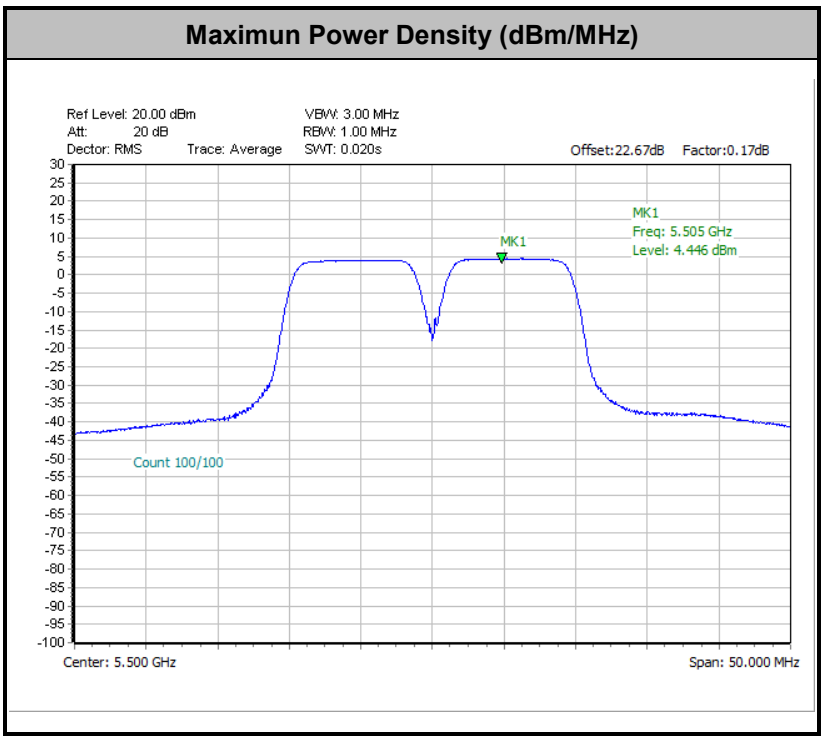
Note: Average Power Density (dB) = Measured value+ Duty Factor

<802.11ax HE20 partial RU 106*2 Mode >

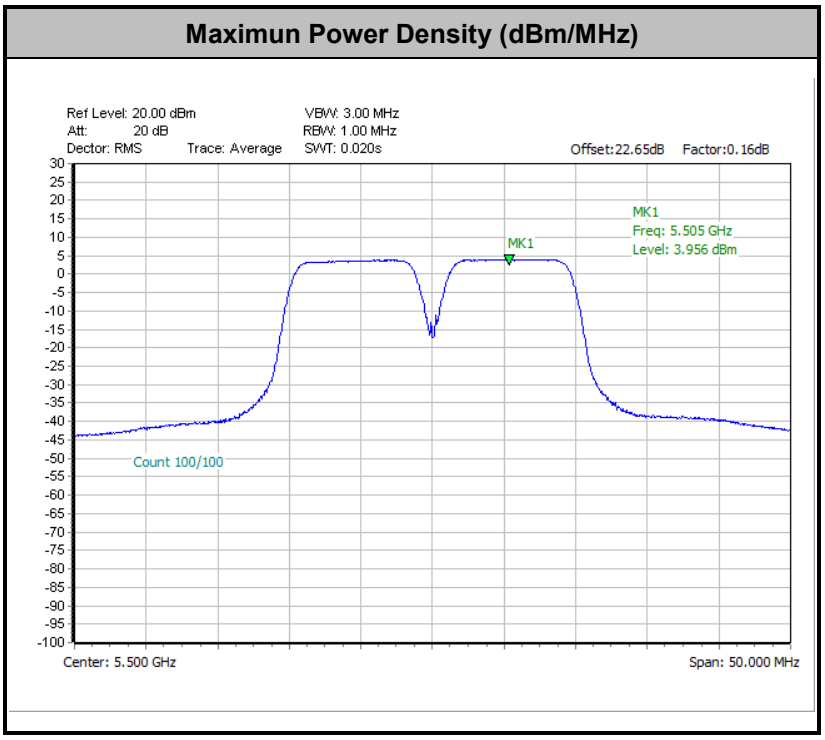
<MIMO Ant. E + H + F + G>



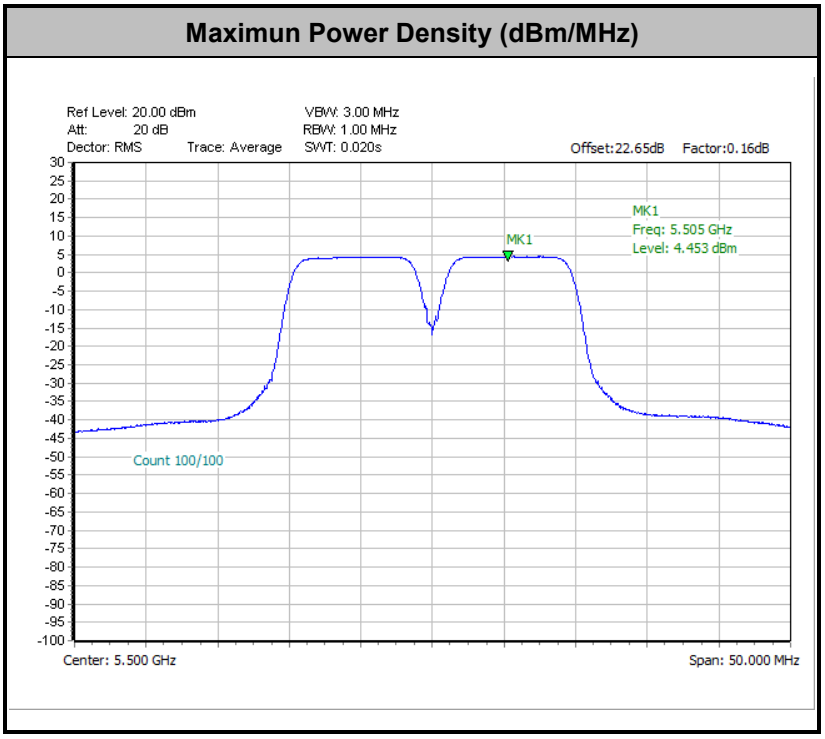
Trace 1 < Ant. E >



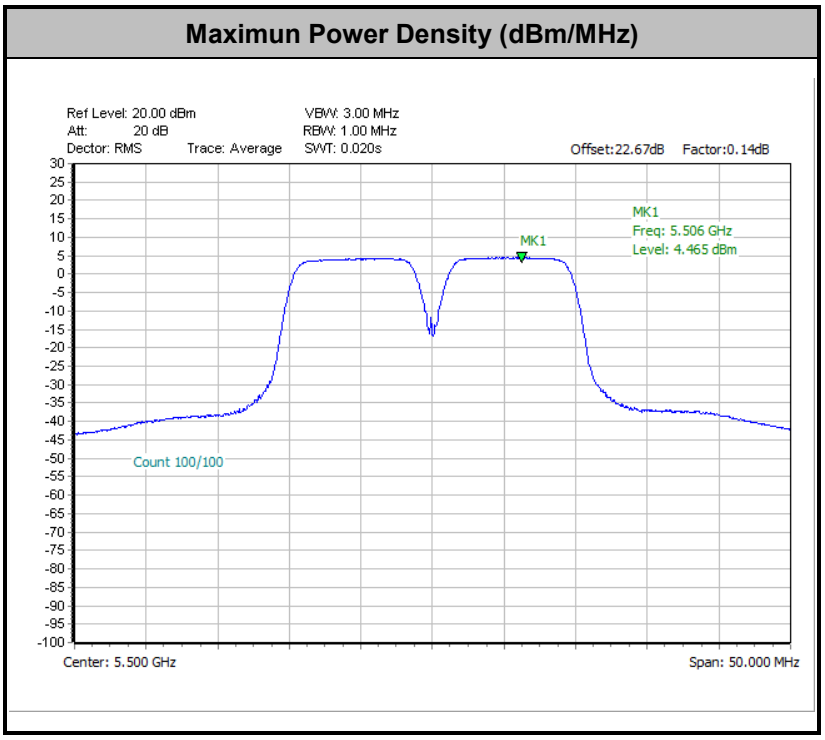
Trace 2 < Ant. H >



Trace 3 < Ant. F >



Trace 4 < Ant. G >



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

(2) Unwanted spurious emissions falls 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

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

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

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

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in 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 1000 MHz

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

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

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

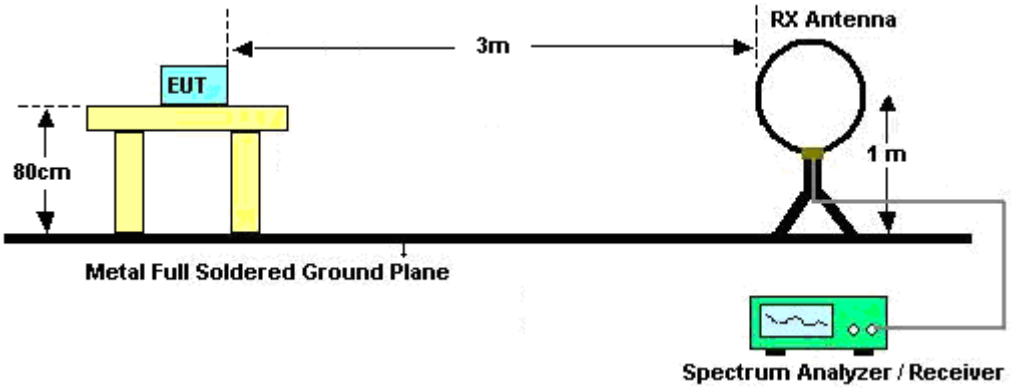
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 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 is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is 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 is 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. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

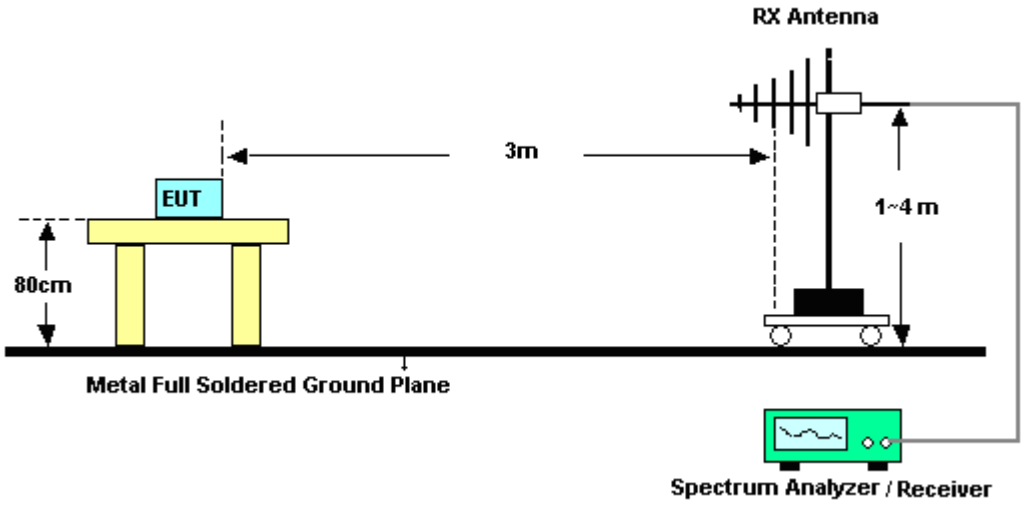
3.4.4 Test Setup

For radiated emissions below 30MHz

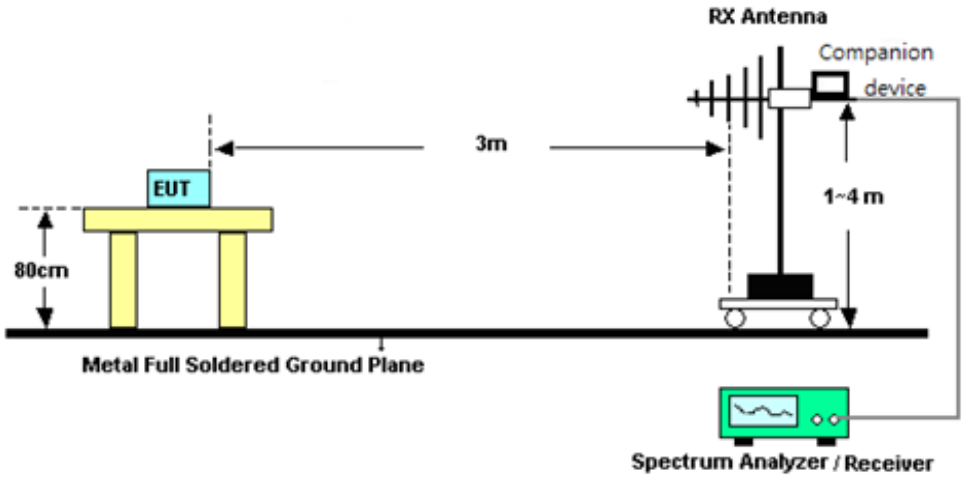


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

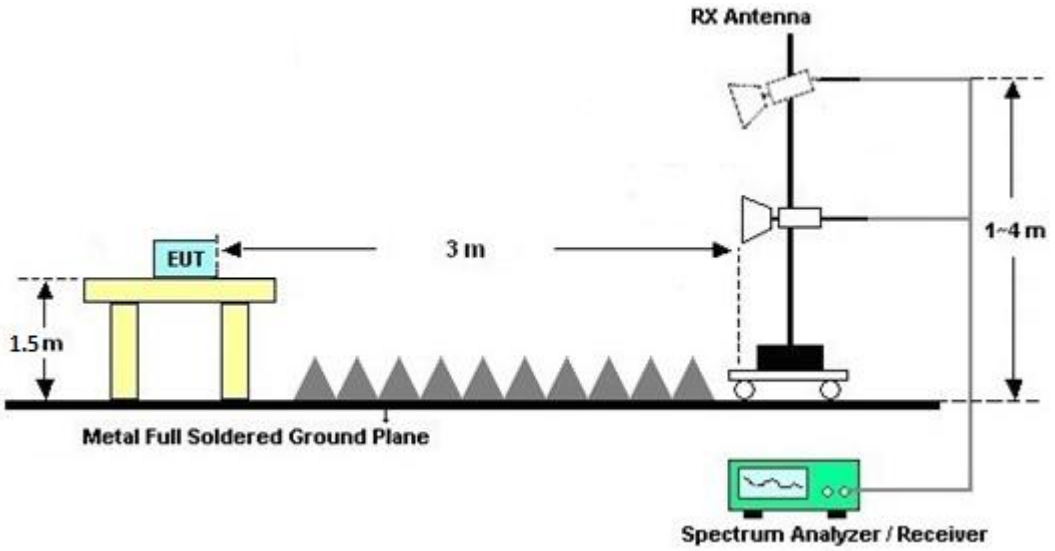


<TXBF Modes>

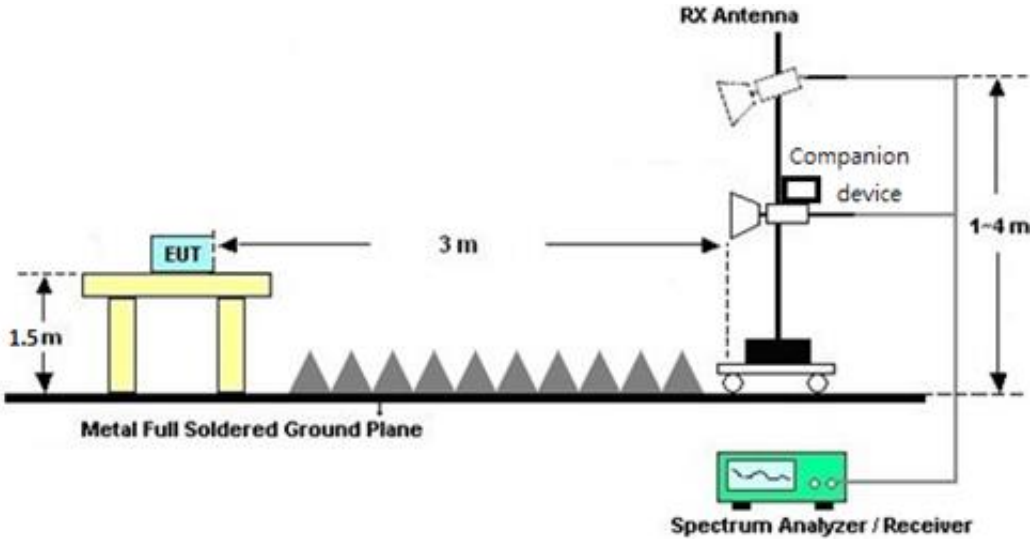


For radiated test from 1GHz to 18GHz

<CDD Mode>

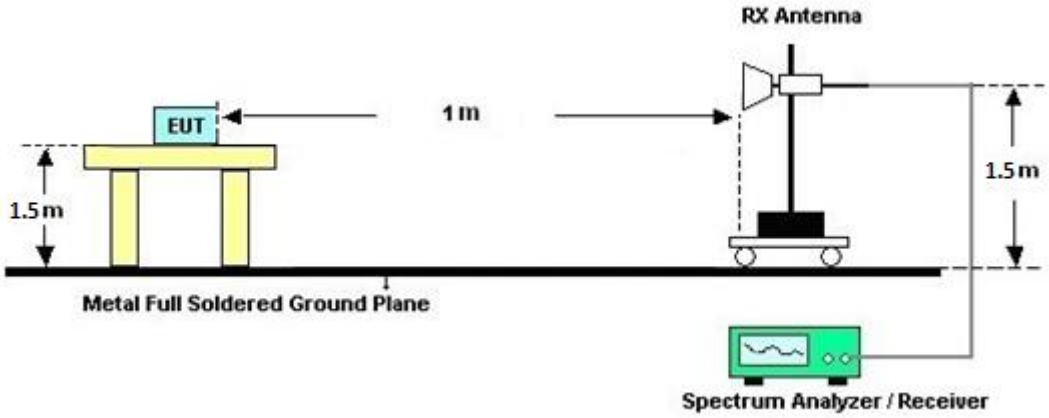


<TXBF Modes>

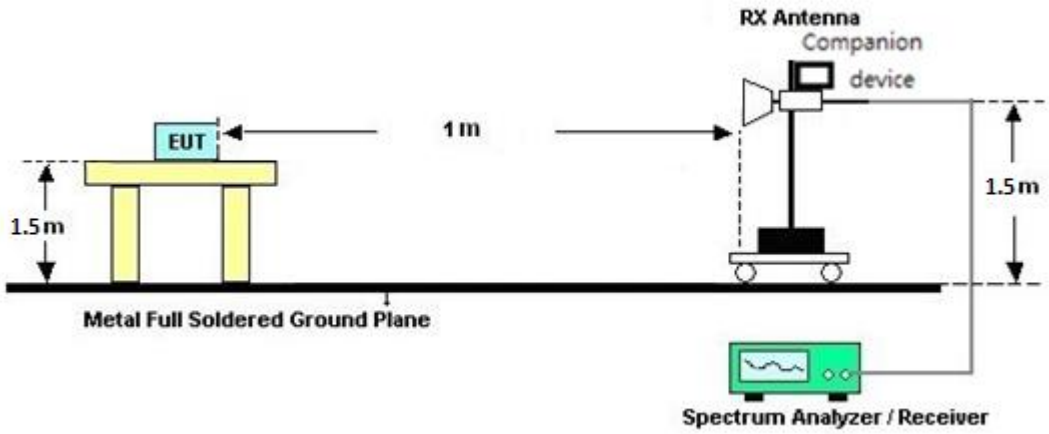


For radiated test above 18GHz

<CDD Mode>



<TXBF Modes>



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

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.

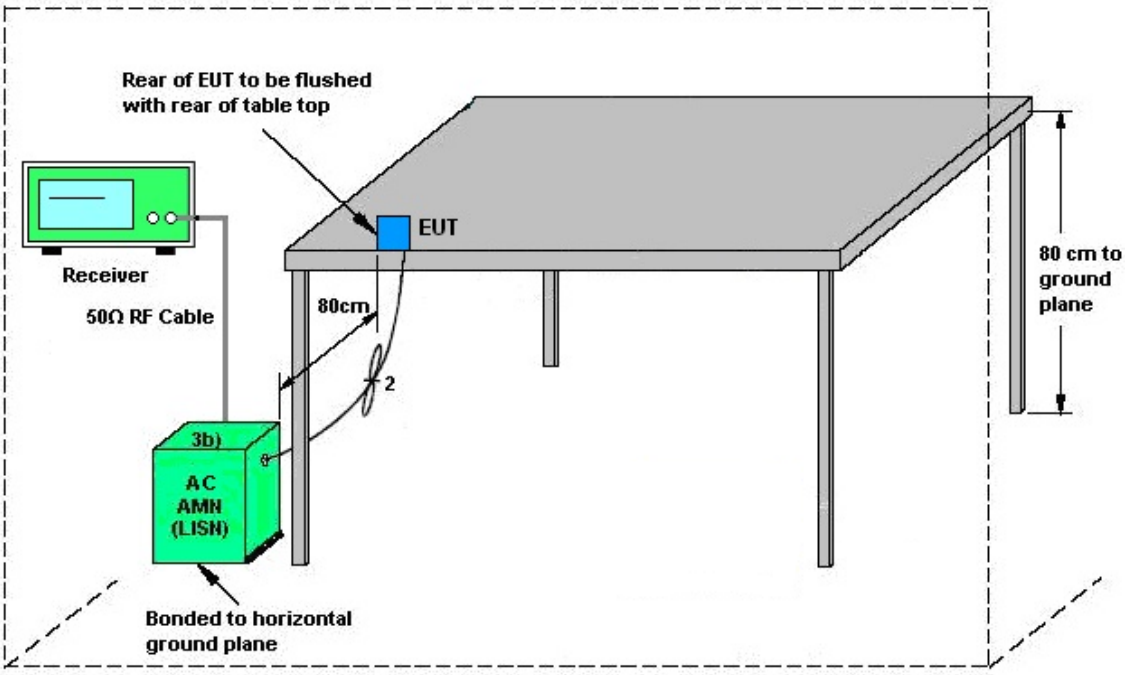
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

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 transmit power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The device is the special case of a MIMO system with four outputs driving a cross-polarized pair of linearly polarized antennas (noted as “vertical” and “horizontal”).

Refer to KDB 662911 D01 v02r01 F)2)c) for a system in which the antennas have fixed orientations relative to one another that ensure that the antennas are cross-polarized regardless of any user actions, the directional gain is computed as follows.

The total gain—including array gain—is computed separately for each of the two polarizations using the procedures presented in KDB 662911 D01 v02r01. The highest of the total gains shall apply.

For power measurements on IEEE 802.11 devices,

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

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

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation follows F)2)f)i) of KDB 662911 D01 Directional gain = $G_{ANT\ MAX}$ + 10 log(N_{ANT}/N_{SS}) dBi, where N_{SS} = the number of independent spatial streams of data and $G_{ANT\ MAX}$ is.the gain of the antenna having the highest gain (in dBi).

The directional gain of EUT is listed in the following table.

<Radio 1, Radio 2>

5GHz CDD mode	Ant A Vertical polarization (dBi)	Ant D Vertical polarization (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
UNII-1	2.90	2.90	2.90	5.91	0	0
UNII-2a	2.90	2.90	2.90	5.91	0	0
UNII-2c	2.90	2.90	2.90	5.91	0	0
5GHz CDD mode	**Ant B Horizontal polarization (dBi)**	**Ant C Horizontal polarization (dBi)**	**DG for Power (dBi)**	**DG for PSD (dBi)**	**Power Limit Reduction (dB)**	**PSD Limit Reduction (dB)**
UNII-1	2.90	2.90	2.90	5.91	0	0
UNII-2a	2.90	2.90	2.90	5.91	0	0
UNII-2c	2.90	2.90	2.90	5.91	0	0

<Radio 3>

5GHz CDD mode	Ant E Vertical polarization (dBi)	Ant H Vertical polarization (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
UNII-2c	2.90	2.90	2.90	5.91	0	0
5GHz CDD mode	**Ant F Horizontal polarization (dBi)**	**Ant G Horizontal polarization (dBi)**	**DG for Power (dBi)**	**DG for PSD (dBi)**	**Power Limit Reduction (dB)**	**PSD Limit Reduction (dB)**
UNII-2c	2.90	2.90	2.90	5.91	0	0

Calculation:

Directional gain of power measurement:

= max. antenna gain (2.9dBi, 2.9dBi) + 0 = 2.9 dBi

Directional gain of PSD measurement (Horizontal polarization):

= max. antenna gain (2.9dBi, 2.9dBi)+10*log(2/1) = 5.91dBi

Directional gain of PSD measurement (Vertical polarization):

= max. antenna gain (2.9dBi, 2.9dBi)+10*log(2/1) = 5.91dBi

Directional gain of PSD measurement:

= max directional gain of Horizontal and Vertical

= max. directional gain (5.91dBi, 5.91dBi) = 5.91 dBi

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power and PSD measurement, the directional gain calculation follows F)2)e)ii) of KDB 662911 D01 Directional gain = $G_{ANT\ MAX}$ + 10 log(N_{ANT}/N_{SS}) dBi, where N_{SS} = the number of independent spatial streams of data and $G_{ANT\ MAX}$ is.the gain of the antenna having the highest gain (in dBi).

<Radio 1, Radio 2>

5GHz TXBF mode	Ant A Vertical polarization (dBi)	Ant D Vertical polarization (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
UNII-1	2.90	2.90	5.91	5.91	0	0
UNII-2a	2.90	2.90	5.91	5.91	0	0
UNII-2c	2.90	2.90	5.91	5.91	0	0
5GHz TXBF mode	**Ant B Horizontal polarization (dBi)**	**Ant C Horizontal polarization (dBi)**	**DG for Power (dBi)**	**DG for PSD (dBi)**	**Power Limit Reduction (dB)**	**PSD Limit Reduction (dB)**
UNII-1	2.90	2.90	5.91	5.91	0	0
UNII-2a	2.90	2.90	5.91	5.91	0	0
UNII-2c	2.90	2.90	5.91	5.91	0	0

<Radio 3>

5GHz TXBF mode	Ant E Vertical polarization (dBi)	Ant H Vertical polarization (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
UNII-2c	2.90	2.90	5.91	5.91	0	0
5GHz TXBF mode	**Ant F Horizontal polarization (dBi)**	**Ant G Horizontal polarization (dBi)**	**DG for Power (dBi)**	**DG for PSD (dBi)**	**Power Limit Reduction (dB)**	**PSD Limit Reduction (dB)**
UNII-2c	2.90	2.90	5.91	5.91	0	0

Calculation:

Directional gain of power and PSD measurement (Horizontal polarization):

= max. antenna gain (2.9dBi, 2.9dBi)+10*log(2/1) = 5.91dBi

Directional gain of power and PSD measurement (Vertical polarization):

= max. antenna gain (2.9dBi, 2.9dBi)+10*log(2/1) = 5.91dBi

Directional gain of PSD measurement:

= max directional gain of Horizontal and Vertical

= max. directional gain (5.91dBi, 5.91dBi) = 5.91 dBi

4 List of List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	R&S	HFH2-Z2E	100840	9kHz~30MHz	Jun. 21, 2021	Aug. 15, 2021~ Nov. 05, 2021	Jun. 20, 2022	Radiation (03CH02-CA)
Bilog Antenna	TESEQ	6111D	50392	30MHz~1GHz	Aug. 10, 2021	Aug. 15, 2021~ Nov. 05, 2021	Aug. 09, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02113	1GHz~18GHz	Jul. 08, 2021	Aug. 15, 2021~ Nov. 05, 2021	Jul. 07, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02113	1GHz~18GHz	Jun. 22, 2022	Jan. 13, 2023~ Feb. 07, 2023	Jun. 21, 2023	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9170D	00842	18GHz~40GHz	Jul. 20, 2021	Aug. 15, 2021~ Nov. 05, 2021	Jul. 19, 2022	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	N/A	Aug. 09, 2021	Aug. 15, 2021~ Nov. 05, 2021	Aug. 08, 2022	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	Jul. 27, 2021	Aug. 15, 2021~ Nov. 05, 2021	Jul. 26, 2022	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	May 11, 2022	Jan. 13, 2023~ Feb. 07, 2023	May 10, 2023	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M-18G-56-01-A70	EC1900251	1GHz~18GHz	Mar. 30, 2021	Aug. 15, 2021~ Nov. 05, 2021	Mar. 29, 2022	Radiation (03CH02-CA)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055004	1GHz~18GHz	Jul. 21, 2021	Aug. 15, 2021~ Nov. 05, 2021	Jul. 20, 2022	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	60725	18GHz-40GHz	Jul. 21, 2021	Aug. 15, 2021~ Nov. 05, 2021	Jul. 20, 2022	Radiation (03CH02-CA)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 05, 2021	Aug. 15, 2021~ Nov. 05, 2021	Mar. 04, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN08	6.75GHz High Pass Filter	Jul. 23, 2021	Aug. 15, 2021~ Nov. 05, 2021	Jul. 22, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN10	3 GHz High Pass Filter	Jul. 23, 2021	Aug. 15, 2021~ Nov. 05, 2021	Jul. 22, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-1272-11000-40SS	SN1	1.2G Low Pass	Jul. 23, 2021	Aug. 15, 2021~ Nov. 05, 2021	Jul. 22, 2022	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug. 04, 2021	Aug. 15, 2021~ Nov. 05, 2021	Aug. 03, 2022	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Sep.12, 2022	Jan. 13, 2023~ Feb. 07, 2023	Sep. 11, 2023	Radiation (03CH02-CA)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Aug. 15, 2021~ Nov. 05, 2021	N/A	Radiation (03CH02-CA)
Controller	ChainTek	EM-1000	060876	NA	N/A	Jan. 13, 2023~ Feb. 07, 2023	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 15, 2021~ Feb. 07, 2023	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 15, 2021~ Feb. 07, 2023	N/A	Radiation (03CH02-CA)
Software	Audix	E3	N/A	N/A	N/A	Aug. 15, 2021~ Feb. 07, 2023	N/A	Radiation (03CH02-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	8024032/2, 802406/2, 802875/2	N/A	Jun. 22, 2022	Jan. 13, 2023~ Feb. 07, 2023	Jun. 21, 2023	Radiation (03CH02-CA)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	45142595	N/A	Sep. 03, 2021	Oct. 01, 2021~ Dec. 01, 2021	Sep. 02, 2022	Conducted (TH01-CA)
Hygrometer	Testo	608-H1	45141354	N/A	Jul. 27, 2022	Dec. 01, 2022~ Dec. 14, 2022	Jul. 26, 2023	Conducted (TH01-CA)
Power Sensor	EM Electronics Corporation	RPR3006W	RPR6W-1901026	10MHz-6GHz	Jul. 26, 2021	Oct. 01, 2021~ Dec. 01, 2021	Jul. 25, 2022	Conducted (TH01-CA)
Switch Box & RF Cable	EM Electronics	EMSW26	1090304	N/A	Dec. 30, 2020	Oct. 01, 2021~ Dec. 01, 2021	Dec. 29, 2021	Conducted (TH01-CA)
Switch Box & RF Cable	EM Electronics	EMSW26	1090304	N/A	Mar. 30, 2022	Dec. 01, 2022~ Dec. 04, 2022	Mar. 29, 2023	Conducted (TH01-CA)
Switch Box & RF Cable	EM Electronics	EMSW26	1090304	N/A	Dec. 05, 2022	Dec. 05, 2022~ Dec. 14, 2022	Dec. 04, 2023	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101089	10Hz-40GHz	Jun. 02, 2021	Oct. 01, 2021~ Dec. 01, 2021	Jun. 01, 2022	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101089	10Hz-40GHz	Jun. 01, 2022	Dec. 01, 2022~ Dec. 14, 2022	May 31, 2023	Conducted (TH01-CA)
Power Sensor	EM Electronics Corporation	RPR3006W #010	RPR6W-2101003	10MHz-8GHz	Apr. 15, 2021	Oct. 01, 2021~ Nov. 30, 2021	Apr. 14, 2022	Conducted (TH01-CA)
USB Power Meter	EM Electronics Corporation	RPR3006W #010	RPR6W-2101003	10MHz-8GHz	May 04, 2022	Dec. 01, 2022~ Dec. 14, 2022	May 03, 2023	Conducted (TH01-CA)
LISN	TESEQ	NNB51	47407	N/A	Jul. 21, 2021	Dec. 17, 2021	Jul. 20, 2022	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	9KHz~7GHz	Jun. 02, 2021	Dec. 17, 2021	Jun. 01, 2022	Conduction (CO01-CA)
Pulse limiter with 10dB attenuation	R&S	VTSD 9561-F N	9561-F-N00412	N/A	Jul. 07, 2021	Dec. 17, 2021	Jul. 06, 2022	Conduction (CO01-CA)
Test Software	R&S	EMC32 V10.30.0	N/A	N/A	N/A	Dec. 17, 2021	N/A	Conduction (CO01-CA)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.0 dB**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.2 dB**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.5 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer	LilianaGonzalez, Andy Kao	Temperature	17.1~22.5	°C
Test Date	2021/10/1~2022/12/14	Relative Humidity	32.40~54.80	%

TEST RESULTS DATA
26dB and 99% OBW

UNII-1 MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
					Ant A	Ant D	Ant B	Ant C	Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
11a	6Mbps	4	36	5180	20.30	20.60	20.60	20.50	16.48	16.43	16.43	16.43	22.16
11a	6Mbps	4	44	5220	20.65	20.75	20.60	20.50	16.48	16.48	16.48	16.43	22.16
11a	6Mbps	4	48	5240	20.60	20.75	20.40	20.45	16.43	16.48	16.43	16.43	22.16

TEST RESULTS DATA
Average Power Table

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	36	5180	20.74	20.34	20.86	20.38	26.61	30.00	2.90	Pass
11a	6Mbps	4	44	5220	21.68	21.37	21.80	21.44	27.60	30.00	2.90	Pass
11a	6Mbps	4	48	5240	21.89	21.14	21.74	21.35	27.56	30.00	2.90	Pass
HT20	MCS0	4	36	5180	21.07	20.65	21.11	20.68	26.90	30.00	2.90	Pass
HT20	MCS0	4	44	5220	21.28	20.89	21.39	21.19	27.21	30.00	2.90	Pass
HT20	MCS0	4	48	5240	21.49	20.69	21.38	21.03	27.18	30.00	2.90	Pass
HT40	MCS0	4	38	5190	17.68	17.30	17.71	17.37	23.54	30.00	2.90	Pass
HT40	MCS0	4	46	5230	21.49	20.88	21.37	21.04	27.22	30.00	2.90	Pass
VHT20	MCS0	4	36	5180	21.01	20.62	21.01	20.53	26.82	30.00	2.90	Pass
VHT20	MCS0	4	44	5220	21.21	20.83	21.31	21.05	27.12	30.00	2.90	Pass
VHT20	MCS0	4	48	5240	21.37	20.62	21.26	21.10	27.12	30.00	2.90	Pass
VHT40	MCS0	4	38	5190	17.68	17.31	17.72	17.37	23.54	30.00	2.90	Pass
VHT40	MCS0	4	46	5230	21.50	20.90	21.37	21.07	27.24	30.00	2.90	Pass
VHT80	MCS0	4	42	5210	16.41	15.92	16.40	16.14	22.24	30.00	2.90	Pass
VHT80+80	MCS0	4	42	5210	17.33	-	17.41	-	20.38	30.00	2.90	Pass
			58	5290	-	17.44	-	17.33	20.40	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C								
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average PSD with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi) (see note.1)	Pass /Fail
					Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	36	5180	15.08	17	5.91	Pass
11a	6Mbps	4	44	5220	16.03	17	5.91	Pass
11a	6Mbps	4	48	5240	16.02	17	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another. Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

UNII-2a MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
					Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
11a	6Mbps	4	52	5260	20.55	20.70	20.60	20.55	23.98
11a	6Mbps	4	60	5300	20.60	20.70	20.60	20.45	23.98
11a	6Mbps	4	64	5320	20.55	20.60	20.70	20.45	23.98

UNII-2a MIMO 4Tx Mode Ant A + D + B + C												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
					Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A	Ant D	Ant B	Ant C
11a	6Mbps	4	52	5260	16.43	16.48	16.43	16.43	23.16	29.16			
11a	6Mbps	4	60	5300	16.48	16.48	16.43	16.43	23.16	29.16			
11a	6Mbps	4	64	5320	16.48	16.48	16.48	16.43	23.16	29.16			

TEST RESULTS DATA
Average Power Table

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C												
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	52	5260	16.64	15.72	16.46	15.94	22.23	23.98	2.90	Pass
11a	6Mbps	4	60	5300	16.50	16.20	16.41	15.82	22.26	23.98	2.90	Pass
11a	6Mbps	4	64	5320	16.46	15.80	16.53	15.88	22.20	23.98	2.90	Pass
HT20	MCS0	4	52	5260	17.29	16.37	17.05	16.63	22.87	23.98	2.90	Pass
HT20	MCS0	4	60	5300	16.91	16.36	16.81	16.55	22.68	23.98	2.90	Pass
HT20	MCS0	4	64	5320	16.86	16.39	16.95	16.38	22.67	23.98	2.90	Pass
HT40	MCS0	4	54	5270	18.12	16.99	17.69	17.13	23.53	23.98	2.90	Pass
HT40	MCS0	4	62	5310	16.57	15.77	16.40	15.99	22.21	23.98	2.90	Pass
VHT20	MCS0	4	52	5260	17.29	16.25	16.81	16.39	22.72	23.98	2.90	Pass
VHT20	MCS0	4	60	5300	17.09	16.35	16.79	16.05	22.61	23.98	2.90	Pass
VHT20	MCS0	4	64	5320	17.07	16.39	16.88	16.22	22.67	23.98	2.90	Pass
VHT40	MCS0	4	54	5270	18.11	17.00	17.69	17.12	23.52	23.98	2.90	Pass
VHT40	MCS0	4	62	5310	16.57	15.79	16.41	15.85	22.19	23.98	2.90	Pass
VHT80	MCS0	4	58	5290	15.69	14.91	15.44	14.77	21.24	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

UNII-2a MIMO 4Tx Mode Ant A + D + B + C								
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
					Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	52	5260	10.59	11.00	5.91	Pass
11a	6Mbps	4	60	5300	10.66	11.00	5.91	Pass
11a	6Mbps	4	64	5320	10.66	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another. Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

UNII-1 MIMO 4Tx Mode Ant A + D + B + C														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
HE20	MCS0	4	36	5180	Full	21.60	21.60	22.30	21.60	18.93	18.93	18.88	18.88	22.76
HE20	MCS0	4	44	5220	Full	21.90	21.50	21.80	21.70	18.98	18.93	18.88	18.93	22.76
HE20	MCS0	4	48	5240	Full	21.90	21.85	21.25	21.95	18.93	18.93	18.88	18.88	22.76
HE40	MCS0	4	38	5190	Full	40.95	41.22	40.86	40.59	37.86	37.86	37.86	37.76	23.01
HE40	MCS0	4	46	5230	Full	40.32	40.77	40.77	40.41	37.96	37.86	37.96	37.86	23.01
HE80	MCS0	4	42	5210	Full	83.20	82.24	82.40	82.56	77.08	77.08	76.96	76.96	23.01
HE80+80	MCS0	4	42	5210	Full	82.08	-	81.92	-	76.72	-	76.72	-	23.01
			58	5290		-	81.76	-	82.08	-	76.36	-	76.60	30.00

TEST RESULTS DATA
Average Power Table

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	21.10	20.67	21.20	20.73	26.95	30.00	2.90	Pass
HE20	MCS0	4	44	5220	Full	21.40	21.06	21.56	21.44	27.39	30.00	2.90	Pass
HE20	MCS0	4	48	5240	Full	21.53	20.83	21.45	21.21	27.28	30.00	2.90	Pass
HE40	MCS0	4	38	5190	Full	17.70	17.33	17.74	17.40	23.57	30.00	2.90	Pass
HE40	MCS0	4	46	5230	Full	21.52	20.92	21.40	21.09	27.26	30.00	2.90	Pass
HE80	MCS0	4	42	5210	Full	16.46	15.97	16.43	16.24	22.30	30.00	2.90	Pass
HE80+8	MCS0	4	42	5210	Full	17.30	-	17.48	-	20.40	30.00	2.90	Pass
			58	5290		-	17.41	-	17.38	20.41	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	14.93	17.00	5.91	Pass
HE20	MCS0	4	44	5220	Full	15.28	17.00	5.91	Pass
HE20	MCS0	4	48	5240	Full	15.16	17.00	5.91	Pass
HE40	MCS0	4	38	5190	Full	8.53	17.00	5.91	Pass
HE40	MCS0	4	46	5230	Full	12.28	17.00	5.91	Pass
HE80	MCS0	4	42	5210	Full	4.59	17.00	5.91	Pass
HE80+80	MCS0	4	42	5210	Full	3.24	17.00	5.91	Pass
			58	5290		3.15	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

UNII-2a MIMO 4Tx Mode Ant A + D + B + C										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
HE20	MCS0	4	52	5260	Full	21.85	21.75	22.15	21.85	23.98
HE20	MCS0	4	60	5300	Full	21.90	21.65	21.45	21.55	23.98
HE20	MCS0	4	64	5320	Full	21.80	21.45	21.80	21.95	23.98
HE40	MCS0	4	54	5270	Full	40.86	40.68	40.59	41.22	23.98
HE40	MCS0	4	62	5310	Full	40.50	40.68	40.59	40.68	23.98
HE80	MCS0	4	58	5290	Full	82.56	81.92	82.08	81.76	23.98

TEST RESULTS DATA
Average Power Table

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	17.43	16.68	17.08	16.65	22.99	23.98	2.90	Pass
HE20	MCS0	4	60	5300	Full	17.12	16.42	17.11	16.67	22.86	23.98	2.90	Pass
HE20	MCS0	4	64	5320	Full	17.13	16.41	17.05	16.41	22.78	23.98	2.90	Pass
HE40	MCS0	4	54	5270	Full	18.16	17.03	17.72	17.16	23.56	23.98	2.90	Pass
HE40	MCS0	4	62	5310	Full	16.59	15.81	16.44	16.01	22.24	23.98	2.90	Pass
HE80	MCS0	4	58	5290	Full	15.71	14.96	15.46	14.82	21.27	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

UNII-2a MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	10.81	11.00	5.91	Pass
HE20	MCS0	4	60	5300	Full	10.69	11.00	5.91	Pass
HE20	MCS0	4	64	5320	Full	10.60	11.00	5.91	Pass
HE40	MCS0	4	54	5270	Full	8.44	11.00	5.91	Pass
HE40	MCS0	4	62	5310	Full	7.16	11.00	5.91	Pass
HE80	MCS0	4	58	5290	Full	3.69	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	21.10	20.67	21.20	20.73	26.95	30.00	2.90	Pass
HE20	MCS0	4	36	5180	52_52_52_52	19.84	19.18	19.26	19.49	25.47	30.00	2.90	Pass
HE20	MCS0	4	36	5180	106_106	20.23	19.50	19.84	19.90	25.90	30.00	2.90	Pass
HE20	MCS0	4	44	5220	Full	21.40	21.06	21.56	21.44	27.39	30.00	2.90	Pass
HE20	MCS0	4	44	5220	52_52_52_52	20.92	19.84	20.40	20.84	26.54	30.00	2.90	Pass
HE20	MCS0	4	44	5220	106_106	21.14	20.25	20.55	20.75	26.71	30.00	2.90	Pass
HE20	MCS0	4	48	5240	Full	21.53	20.83	21.45	21.21	27.28	30.00	2.90	Pass
HE20	MCS0	4	48	5240	52_52_52_52	20.66	20.16	20.34	20.73	26.50	30.00	2.90	Pass
HE20	MCS0	4	48	5240	106_106	20.95	20.09	20.77	20.82	26.69	30.00	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

Note 3: The test results of full RU configs presented in the table are derived from the orignally-granted test test report (FR210728001D) for power and PSD comparison against Partial loaded RU configs.

Note 4: The power setting of partial RU increases or decreases in one dB step, wheras the power setting in Full RU are half dB step.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	14.93	17.00	5.91	Pass
HE20	MCS0	4	36	5180	52_52_52_52	14.00	17.00	5.91	Pass
HE20	MCS0	4	36	5180	106_106	14.45	17.00	5.91	Pass
HE20	MCS0	4	44	5220	Full	15.28	17.00	5.91	Pass
HE20	MCS0	4	44	5220	52_52_52_52	15.05	17.00	5.91	Pass
HE20	MCS0	4	44	5220	106_106	15.27	17.00	5.91	Pass
HE20	MCS0	4	48	5240	Full	15.16	17.00	5.91	Pass
HE20	MCS0	4	48	5240	52_52_52_52	15.04	17.00	5.91	Pass
HE20	MCS0	4	48	5240	106_106	15.10	17.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	17.43	16.68	17.08	16.65	22.99	23.98	2.90	Pass
HE20	MCS0	4	52	5260	52_52_52_52	16.32	14.97	15.40	15.46	21.59	23.98	2.90	Pass
HE20	MCS0	4	52	5260	106_106	16.11	15.27	15.46	15.66	21.66	23.98	2.90	Pass
HE20	MCS0	4	60	5300	Full	17.12	16.72	17.11	16.67	22.93	23.98	2.90	Pass
HE20	MCS0	4	60	5300	52_52_52_52	15.13	15.08	14.81	14.64	20.94	23.98	2.90	Pass
HE20	MCS0	4	60	5300	106_106	15.49	14.65	14.57	14.33	20.80	23.98	2.90	Pass
HE20	MCS0	4	64	5320	Full	17.13	16.41	17.05	16.41	22.78	23.98	2.90	Pass
HE20	MCS0	4	64	5320	52_52_52_52	15.43	15.39	14.59	14.65	21.05	23.98	2.90	Pass
HE20	MCS0	4	64	5320	106_106	15.59	15.22	14.85	15.16	21.23	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

Note 3: The test results of full RU configs presented in the table are derived from the orignally-granted test test report (FR210728001D) for power and PSD comparison against Partial loaded RU configs.

Note 4: The power setting of partial RU increases or decreases in one dB step, wheras the power setting in Full RU are half dB step.

TEST RESULTS DATA
Power Spectral Density

UNII-2a MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	10.81	11.00	5.91	Pass
HE20	MCS0	4	52	5260	52_52_52_52	10.14	11.00	5.91	Pass
HE20	MCS0	4	52	5260	106_106	10.36	11.00	5.91	Pass
HE20	MCS0	4	60	5300	Full	10.69	11.00	5.91	Pass
HE20	MCS0	4	60	5300	52_52_52_52	9.01	11.00	5.91	Pass
HE20	MCS0	4	60	5300	106_106	9.45	11.00	5.91	Pass
HE20	MCS0	4	64	5320	Full	10.60	11.00	5.91	Pass
HE20	MCS0	4	64	5320	52_52_52_52	9.68	11.00	5.91	Pass
HE20	MCS0	4	64	5320	106_106	9.68	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

<TXBF>

TEST RESULTS DATA
Average Power Table

FCC UNII-1 Beamforming Mode Ant A + D + B + C												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	36	5180	20.74	20.34	20.86	20.38	26.61	30.00	5.91	Pass
11a	6Mbps	4	44	5220	21.68	21.37	21.80	21.44	27.60	30.00	5.91	Pass
11a	6Mbps	4	48	5240	21.89	21.14	21.74	21.35	27.56	30.00	5.91	Pass
HT20	MCS0	4	36	5180	21.07	20.65	21.11	20.68	26.90	30.00	5.91	Pass
HT20	MCS0	4	44	5220	21.28	20.89	21.39	21.19	27.21	30.00	5.91	Pass
HT20	MCS0	4	48	5240	21.49	20.69	21.38	21.03	27.18	30.00	5.91	Pass
HT40	MCS0	4	38	5190	17.68	17.30	17.71	17.37	23.54	30.00	5.91	Pass
HT40	MCS0	4	46	5230	21.49	20.88	21.37	21.04	27.22	30.00	5.91	Pass
VHT20	MCS0	4	36	5180	21.01	20.62	21.01	20.53	26.82	30.00	5.91	Pass
VHT20	MCS0	4	44	5220	21.21	20.83	21.31	21.05	27.12	30.00	5.91	Pass
VHT20	MCS0	4	48	5240	21.37	20.62	21.26	21.10	27.12	30.00	5.91	Pass
VHT40	MCS0	4	38	5190	17.68	17.31	17.72	17.37	23.54	30.00	5.91	Pass
VHT40	MCS0	4	46	5230	21.50	20.90	21.37	21.07	27.24	30.00	5.91	Pass
VHT80	MCS0	4	42	5210	16.41	15.92	16.40	16.14	22.24	30.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB = 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2a Beamforming Mode Ant A + D + B + C												
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	52	5260	16.64	15.72	16.46	15.94	22.23	23.98	5.91	Pass
11a	6Mbps	4	60	5300	16.50	16.20	16.41	15.82	22.26	23.98	5.91	Pass
11a	6Mbps	4	64	5320	16.46	15.80	16.53	15.88	22.20	23.98	5.91	Pass
HT20	MCS0	4	52	5260	17.29	16.37	17.05	16.63	22.87	23.98	5.91	Pass
HT20	MCS0	4	60	5300	16.91	16.36	16.81	16.55	22.68	23.98	5.91	Pass
HT20	MCS0	4	64	5320	16.86	16.39	16.95	16.38	22.67	23.98	5.91	Pass
HT40	MCS0	4	54	5270	18.12	16.99	17.69	17.13	23.53	23.98	5.91	Pass
HT40	MCS0	4	62	5310	16.57	15.77	16.40	15.99	22.21	23.98	5.91	Pass
VHT20	MCS0	4	52	5260	17.29	16.25	16.81	16.39	22.72	23.98	5.91	Pass
VHT20	MCS0	4	60	5300	17.09	16.35	16.79	16.05	22.61	23.98	5.91	Pass
VHT20	MCS0	4	64	5320	17.07	16.39	16.88	16.22	22.67	23.98	5.91	Pass
VHT40	MCS0	4	54	5270	18.11	17.00	17.69	17.12	23.52	23.98	5.91	Pass
VHT40	MCS0	4	62	5310	16.57	15.79	16.41	15.85	22.19	23.98	5.91	Pass
VHT80	MCS0	4	58	5290	15.69	14.91	15.44	14.77	21.24	23.98	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB = 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-1 Beamforming Mode Ant A + D + B + C													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	21.10	20.67	21.20	20.73	26.95	30.00	5.91	Pass
HE20	MCS0	4	44	5220	Full	21.40	21.06	21.56	21.44	27.39	30.00	5.91	Pass
HE20	MCS0	4	48	5240	Full	21.53	20.83	21.45	21.21	27.28	30.00	5.91	Pass
HE40	MCS0	4	38	5190	Full	17.70	17.33	17.74	17.40	23.57	30.00	5.91	Pass
HE40	MCS0	4	46	5230	Full	21.52	20.92	21.40	21.09	27.26	30.00	5.91	Pass
HE80	MCS0	4	42	5210	Full	16.46	15.97	16.43	16.24	22.30	30.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2a Beamforming Mode Ant A + D + B + C													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	17.43	16.68	17.08	16.65	22.99	23.98	5.91	Pass
HE20	MCS0	4	60	5300	Full	17.12	16.42	17.11	16.67	22.86	23.98	5.91	Pass
HE20	MCS0	4	64	5320	Full	17.13	16.41	17.05	16.41	22.78	23.98	5.91	Pass
HE40	MCS0	4	54	5270	Full	18.16	17.03	17.72	17.16	23.56	23.98	5.91	Pass
HE40	MCS0	4	62	5310	Full	16.59	15.81	16.44	16.01	22.24	23.98	5.91	Pass
HE80	MCS0	4	58	5290	Full	15.71	14.96	15.46	14.82	21.27	23.98	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
					Ant A	Ant D	Ant B	Ant C	Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
11a	6Mbps	4	36	5180	20.45	20.70	20.60	20.50	16.43	16.48	16.43	16.43	22.16
11a	6Mbps	4	44	5220	22.15	22.30	22.65	21.60	16.63	16.63	16.68	16.53	22.18
11a	6Mbps	4	48	5240	21.90	21.25	21.70	21.70	16.63	16.53	16.53	16.48	22.17

TEST RESULTS DATA
Average Power Table

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C												
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	36	5180	18.64	18.20	18.61	18.36	24.48	30.00	2.90	Pass
11a	6Mbps	4	44	5220	21.47	21.29	21.76	21.29	27.48	30.00	2.90	Pass
11a	6Mbps	4	48	5240	21.50	21.10	21.63	21.17	27.38	30.00	2.90	Pass
HT20	MCS0	4	36	5180	17.87	17.41	17.99	17.58	23.74	30.00	2.90	Pass
HT20	MCS0	4	44	5220	21.10	20.90	21.50	21.10	27.18	30.00	2.90	Pass
HT20	MCS0	4	48	5240	21.27	20.81	21.34	20.64	27.05	30.00	2.90	Pass
HT40	MCS0	4	38	5190	17.40	17.05	17.40	17.05	23.25	30.00	2.90	Pass
HT40	MCS0	4	46	5230	21.03	20.45	20.95	20.45	26.75	30.00	2.90	Pass
VHT20	MCS0	4	36	5180	17.88	17.65	17.96	17.39	23.75	30.00	2.90	Pass
VHT20	MCS0	4	44	5220	21.22	20.96	21.39	20.91	27.15	30.00	2.90	Pass
VHT20	MCS0	4	48	5240	21.36	20.79	21.24	20.79	27.07	30.00	2.90	Pass
VHT40	MCS0	4	38	5190	17.44	16.98	17.46	17.03	23.25	30.00	2.90	Pass
VHT40	MCS0	4	46	5230	20.93	20.50	20.99	20.49	26.75	30.00	2.90	Pass
VHT80	MCS0	4	42	5210	16.86	16.47	16.94	16.52	22.72	30.00	2.90	Pass
VHT80+80	MCS0	4	42	5210	16.56	-	16.62	-	19.60	30.00	2.90	Pass
			58	5290	-	16.53	-	16.50	19.53	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C								
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average PSD with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi) (see note.1)	Pass /Fail
					Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	36	5180	12.94	17	5.91	Pass
11a	6Mbps	4	44	5220	16.08	17	5.91	Pass
11a	6Mbps	4	48	5240	15.90	17	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
					Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
11a	6Mbps	4	52	5260	20.50	20.70	20.55	20.40	23.98
11a	6Mbps	4	60	5300	20.70	20.60	20.65	20.85	23.98
11a	6Mbps	4	64	5320	20.60	20.75	20.50	20.50	23.98

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
					Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A	Ant D	Ant B	Ant C
11a	6Mbps	4	52	5260	16.43	16.48	16.43	16.43	23.16	29.16			
11a	6Mbps	4	60	5300	16.48	16.43	16.48	16.48	23.16	29.16			
11a	6Mbps	4	64	5320	16.48	16.43	16.43	16.48	23.16	29.16			

TEST RESULTS DATA
Average Power Table

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	52	5260	16.74	16.17	16.86	16.32	22.55	23.98	2.90	Pass
11a	6Mbps	4	60	5300	16.61	16.24	16.63	15.99	22.40	23.98	2.90	Pass
11a	6Mbps	4	64	5320	16.29	15.72	16.50	15.89	22.13	23.98	2.90	Pass
HT20	MCS0	4	52	5260	17.48	17.02	17.44	16.65	23.18	23.98	2.90	Pass
HT20	MCS0	4	60	5300	17.30	17.00	17.30	16.70	23.10	23.98	2.90	Pass
HT20	MCS0	4	64	5320	17.53	16.78	17.43	16.85	23.18	23.98	2.90	Pass
HT40	MCS0	4	54	5270	18.10	17.20	17.90	17.50	23.71	23.98	2.90	Pass
HT40	MCS0	4	62	5310	15.58	14.88	15.58	15.20	21.34	23.98	2.90	Pass
VHT20	MCS0	4	52	5260	17.40	17.00	17.56	16.86	23.23	23.98	2.90	Pass
VHT20	MCS0	4	60	5300	17.57	16.75	17.42	16.55	23.11	23.98	2.90	Pass
VHT20	MCS0	4	64	5320	17.46	16.96	17.52	16.96	23.25	23.98	2.90	Pass
VHT40	MCS0	4	54	5270	18.01	17.33	17.95	17.51	23.73	23.98	2.90	Pass
VHT40	MCS0	4	62	5310	15.63	14.96	15.57	15.26	21.38	23.98	2.90	Pass
VHT80	MCS0	4	58	5290	15.87	15.39	15.81	15.18	21.59	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
					Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	52	5260	10.94	11.00	5.91	Pass
11a	6Mbps	4	60	5300	10.84	11.00	5.91	Pass
11a	6Mbps	4	64	5320	10.68	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
					Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
11a	6Mbps	4	100	5500	20.60	20.55	20.60	20.70	23.98
11a	6Mbps	4	116	5580	20.50	20.70	20.60	20.85	23.98
11a	6Mbps	4	140	5700	20.55	20.70	20.55	20.35	23.98

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
					Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A	Ant D	Ant B	Ant C
11a	6Mbps	4	144	5720	15.40	15.25	15.30	15.25	22.83	3.15	3.15	3.15	3.15

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
					Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A + D + B + C
11a	6Mbps	4	100	5500	16.48	16.48	16.43	16.48	23.16	29.16
11a	6Mbps	4	116	5580	16.43	16.43	16.43	16.53	23.16	29.16
11a	6Mbps	4	140	5700	16.48	16.48	16.43	16.43	23.16	29.16

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
					Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A + D + B + C
11a	6Mbps	4	144	5720	13.29	13.29	13.24	13.29	22.22	28.22

TEST RESULTS DATA
Average Power Table

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	100	5500	16.51	16.12	16.36	15.44	22.15	23.98	2.90	Pass
11a	6Mbps	4	116	5580	16.62	16.35	16.73	15.98	22.45	23.98	2.90	Pass
11a	6Mbps	4	140	5700	16.58	16.19	16.57	15.77	22.31	23.98	2.90	Pass
HT20	MCS0	4	100	5500	17.00	16.70	17.10	16.80	22.92	23.98	2.90	Pass
HT20	MCS0	4	116	5580	17.10	16.64	17.37	16.93	23.04	23.98	2.90	Pass
HT20	MCS0	4	140	5700	17.09	16.47	16.84	16.45	22.74	23.98	2.90	Pass
HT40	MCS0	4	102	5510	17.75	17.05	17.75	17.25	23.48	23.98	2.90	Pass
HT40	MCS0	4	110	5550	17.89	17.29	18.09	17.64	23.76	23.98	2.90	Pass
HT40	MCS0	4	134	5670	17.80	17.30	18.47	17.21	23.75	23.98	2.90	Pass
VHT20	MCS0	4	100	5500	17.26	16.73	17.05	16.45	22.90	23.98	2.90	Pass
VHT20	MCS0	4	116	5580	17.17	16.80	17.30	16.79	23.04	23.98	2.90	Pass
VHT20	MCS0	4	140	5700	17.54	16.82	17.01	16.44	22.99	23.98	2.90	Pass
VHT40	MCS0	4	102	5510	17.83	17.03	17.77	17.21	23.49	23.98	2.90	Pass
VHT40	MCS0	4	110	5550	17.83	17.33	18.15	17.98	23.85	23.98	2.90	Pass
VHT40	MCS0	4	134	5670	17.92	17.45	18.08	17.39	23.74	23.98	2.90	Pass
VHT80	MCS0	4	106	5530	17.47	16.77	17.52	16.91	23.20	23.98	2.90	Pass
VHT80	MCS0	4	122	5610	17.80	17.41	18.29	17.81	23.86	23.98	2.90	Pass
VHT80+80	MCS0	4	106+122	5530+5610	18.18	17.17	18.16	17.36	23.76	23.98	2.90	Pass

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	144	5720	16.55	16.01	16.41	15.21	22.10	22.83	2.90	Pass
HT20	MCS0	4	144	5720	16.95	16.35	17.05	16.25	22.68	23.98	2.90	Pass
HT40	MCS0	4	142	5710	18.06	17.55	18.05	17.67	23.86	23.98	2.90	Pass
VHT20	MCS0	4	144	5720	16.88	16.59	16.87	16.02	22.62	23.98	2.90	Pass
VHT40	MCS0	4	142	5710	18.06	17.60	18.12	17.76	23.91	23.98	2.90	Pass
VHT80	MCS0	4	138	5690	18.04	17.57	18.16	17.53	23.85	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna
Note 2: Directional Gain =GMAX + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C								
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
					Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	100	5500	10.72	11.00	5.91	Pass
11a	6Mbps	4	116	5580	10.77	11.00	5.91	Pass
11a	6Mbps	4	140	5700	10.73	11.00	5.91	Pass

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C								
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
					Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	144	5720	10.56	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another. Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
HE20	MCS0	4	36	5180	Full	21.65	21.50	21.75	21.60	18.93	18.88	18.93	18.93	22.76
HE20	MCS0	4	44	5220	Full	23.40	22.75	22.85	22.55	18.98	19.03	19.03	18.98	22.78
HE20	MCS0	4	48	5240	Full	22.70	22.35	22.25	22.30	18.98	18.93	18.93	18.93	22.77
HE40	MCS0	4	38	5190	Full	41.13	40.32	40.95	41.04	37.86	37.86	37.96	37.86	23.01
HE40	MCS0	4	46	5230	Full	41.04	41.13	41.40	41.31	37.96	37.96	37.96	37.96	23.01
HE80	MCS0	4	42	5210	Full	82.08	82.08	82.56	82.08	77.08	76.84	76.96	76.96	23.01
HE80+80	MCS0	4	42	5210	Full	81.76	-	81.92	-	76.60	-	76.60	-	23.01
			58	5290	Full	-	82.08	-	82.40	-	76.72	-	76.48	30.00

TEST RESULTS DATA
Average Power Table

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	17.81	17.51	18.03	17.67	23.78	30.00	2.90	Pass
HE20	MCS0	4	44	5220	Full	21.12	20.99	21.35	21.19	27.19	30.00	2.90	Pass
HE20	MCS0	4	48	5240	Full	21.21	20.94	21.38	20.72	27.09	30.00	2.90	Pass
HE40	MCS0	4	38	5190	Full	17.30	17.10	17.50	17.10	23.27	30.00	2.90	Pass
HE40	MCS0	4	46	5230	Full	20.84	20.62	21.01	20.53	26.77	30.00	2.90	Pass
HE80	MCS0	4	42	5210	Full	16.90	16.50	16.90	16.60	22.75	30.00	2.90	Pass
HE80+80	MCS0	4	42	5210	Full	16.46	-	16.79	-	19.64	30.00	2.90	Pass
			58	5290		-	16.62	-	16.63	19.64	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	11.67	17.00	5.91	Pass
HE20	MCS0	4	44	5220	Full	15.09	17.00	5.91	Pass
HE20	MCS0	4	48	5240	Full	14.87	17.00	5.91	Pass
HE40	MCS0	4	38	5190	Full	8.16	17.00	5.91	Pass
HE40	MCS0	4	46	5230	Full	11.75	17.00	5.91	Pass
HE80	MCS0	4	42	5210	Full	4.97	17.00	5.91	Pass
HE80+80	MCS0	4	42	5210	Full	2.05	17.00	5.91	Pass
		4	58	5290	Full	2.00	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
HE20	MCS0	4	52	5260	Full	21.95	21.85	21.65	21.85	23.98
HE20	MCS0	4	60	5300	Full	22.25	21.70	22.00	21.95	23.98
HE20	MCS0	4	64	5320	Full	21.80	21.95	21.80	22.10	23.98
HE40	MCS0	4	54	5270	Full	40.59	40.77	40.77	40.95	23.98
HE40	MCS0	4	62	5310	Full	40.68	40.50	40.50	40.41	23.98
HE80	MCS0	4	58	5290	Full	82.88	82.08	82.08	82.72	23.98

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A	Ant D	Ant B	Ant C
HE20	MCS0	4	52	5260	Full	18.93	18.93	18.88	18.93	23.76	29.76			
HE20	MCS0	4	60	5300	Full	18.93	18.93	18.93	18.93	23.77	29.77			
HE20	MCS0	4	64	5320	Full	18.93	18.88	18.93	18.93	23.76	29.76			
HE40	MCS0	4	54	5270	Full	37.86	37.86	37.86	37.86	23.98	30.00			
HE40	MCS0	4	62	5310	Full	37.96	37.86	37.86	37.86	23.98	30.00			
HE80	MCS0	4	58	5290	Full	76.96	76.96	77.20	77.08	23.98	30.00			

TEST RESULTS DATA
Average Power Table

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	17.47	17.02	17.45	16.94	23.25	23.98	2.90	Pass
HE20	MCS0	4	60	5300	Full	17.40	17.03	17.30	16.69	23.13	23.98	2.90	Pass
HE20	MCS0	4	64	5320	Full	17.56	17.07	17.54	16.75	23.26	23.98	2.90	Pass
HE40	MCS0	4	54	5270	Full	17.98	17.37	17.90	17.61	23.74	23.98	2.90	Pass
HE40	MCS0	4	62	5310	Full	15.55	14.98	15.59	15.39	21.40	23.98	2.90	Pass
HE80	MCS0	4	58	5290	Full	15.90	15.40	15.80	15.30	21.63	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	10.88	11.00	5.91	Pass
HE20	MCS0	4	60	5300	Full	10.83	11.00	5.91	Pass
HE20	MCS0	4	64	5320	Full	10.90	11.00	5.91	Pass
HE40	MCS0	4	54	5270	Full	8.63	11.00	5.91	Pass
HE40	MCS0	4	62	5310	Full	6.28	11.00	5.91	Pass
HE80	MCS0	4	58	5290	Full	3.74	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
HE20	MCS0	4	100	5500	Full	21.90	21.85	21.35	21.95	23.98
HE20	MCS0	4	116	5580	Full	21.65	21.85	21.35	21.20	23.98
HE20	MCS0	4	140	5700	Full	21.50	21.70	21.70	21.70	23.98
HE40	MCS0	4	102	5510	Full	40.59	40.50	41.31	40.50	23.98
HE40	MCS0	4	110	5550	Full	40.86	41.40	40.32	40.68	23.98
HE40	MCS0	4	134	5670	Full	40.68	40.68	41.13	40.50	23.98
HE80	MCS0	4	106	5530	Full	82.40	82.72	82.56	81.60	23.98
HE80	MCS0	4	122	5610	Full	82.88	82.40	82.56	82.56	23.98
HE80+80	MCS0	4	106	5530	Full	82.48	-	82.48	-	23.98
			122	5610	Full	-	82.88	-	82.64	

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)		
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A	Ant D	Ant B	Ant C
HE20	MCS0	4	144	5720	Full	16.05	15.95	16.05	16.05	23.03	4.17	4.45	4.35	4.40
HE40	MCS0	4	142	5710	Full	35.25	35.25	35.43	35.43	23.98	3.99	3.99	3.90	3.90
HE80	MCS0	4	138	5690	Full	76.28	76.12	76.44	76.44	23.98	3.08	3.88	3.88	3.08

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A + D + B + C
HE20	MCS0	4	100	5500	Full	18.88	18.93	18.88	18.88	23.76	29.76
HE20	MCS0	4	116	5580	Full	18.88	18.88	18.93	18.88	23.76	29.76
HE20	MCS0	4	140	5700	Full	18.88	18.88	18.88	18.93	23.76	29.76
HE40	MCS0	4	102	5510	Full	37.86	37.86	37.76	37.76	23.98	30.00
HE40	MCS0	4	110	5550	Full	37.86	37.86	37.76	37.76	23.98	30.00
HE40	MCS0	4	134	5670	Full	37.86	37.76	37.86	37.76	23.98	30.00
HE80	MCS0	4	106	5530	Full	76.96	77.08	76.96	76.96	23.98	30.00
HE80+80	MCS0	4	106	5530	Full	77.08	-	77.08	-	23.98	30.00
			122	5610	Full	-	77.08	-	76.84	23.98	30.00

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A + D + B + C
HE20	MCS0	4	144	5720	Full	14.49	14.49	14.49	14.49	22.61	28.61
HE40	MCS0	4	142	5710	Full	33.98	33.88	33.98	33.98	23.98	30.00
HE80	MCS0	4	138	5690	Full	73.60	73.48	73.48	73.60	23.98	30.00

TEST RESULTS DATA
Average Power Table

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	100	5500	Full	17.20	16.90	17.10	16.40	22.93	23.98	2.90	Pass
HE20	MCS0	4	116	5580	Full	17.33	16.71	17.43	16.66	23.07	23.98	2.90	Pass
HE20	MCS0	4	140	5700	Full	17.31	16.59	17.23	16.79	23.01	23.98	2.90	Pass
HE40	MCS0	4	102	5510	Full	17.70	17.14	17.79	17.29	23.51	23.98	2.90	Pass
HE40	MCS0	4	110	5550	Full	17.91	17.35	18.17	17.93	23.87	23.98	2.90	Pass
HE40	MCS0	4	134	5670	Full	17.95	17.54	18.04	17.45	23.77	23.98	2.90	Pass
HE80	MCS0	4	106	5530	Full	17.50	16.90	17.50	16.90	23.23	23.98	2.90	Pass
HE80	MCS0	4	122	5610	Full	17.90	17.40	18.30	17.80	23.88	23.98	2.90	Pass
HE80+80	MCS0	4	106+122	5530+5610	Full	18.28	17.14	18.18	17.27	23.77	23.98	2.90	Pass

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	144	5720	Full	17.02	16.39	17.05	16.25	22.71	23.03	2.90	Pass
HE40	MCS0	4	142	5710	Full	18.08	17.62	18.04	17.83	23.92	23.98	2.90	Pass
HE80	MCS0	4	138	5690	Full	18.10	17.60	18.00	17.70	23.88	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	100	5500	Full	10.71	11.00	5.91	Pass
HE20	MCS0	4	116	5580	Full	10.78	11.00	5.91	Pass
HE20	MCS0	4	140	5700	Full	10.81	11.00	5.91	Pass
HE40	MCS0	4	102	5510	Full	8.56	11.00	5.91	Pass
HE40	MCS0	4	110	5550	Full	8.72	11.00	5.91	Pass
HE40	MCS0	4	134	5670	Full	8.71	11.00	5.91	Pass
HE80	MCS0	4	106	5530	Full	5.42	11.00	5.91	Pass
HE80	MCS0	4	122	5610	Full	6.16	11.00	5.91	Pass
HE80+80	MCS0	4	106	5530	Full	3.45	11.00	5.91	Pass
			122	5610	Full	2.45	11.00	5.91	Pass

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	144	5720	Full	10.58	11.00	5.91	Pass
HE40	MCS0	4	142	5710	Full	9.21	11.00	5.91	Pass
HE80	MCS0	4	138	5690	Full	6.30	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	17.81	17.51	18.03	17.67	23.78	30.00	2.90	Pass
HE20	MCS0	4	36	5180	52_52_52_52	16.52	15.90	16.25	16.67	22.37	30.00	2.90	Pass
HE20	MCS0	4	36	5180	106_106	16.86	16.21	16.81	16.80	22.70	30.00	2.90	Pass
HE20	MCS0	4	44	5220	Full	21.12	20.99	21.35	21.19	27.19	30.00	2.90	Pass
HE20	MCS0	4	44	5220	52_52_52_52	19.60	19.30	19.52	19.38	25.47	30.00	2.90	Pass
HE20	MCS0	4	44	5220	106_106	20.02	19.85	19.99	19.87	25.95	30.00	2.90	Pass
HE20	MCS0	4	48	5240	Full	21.21	20.94	21.38	20.72	27.09	30.00	2.90	Pass
HE20	MCS0	4	48	5240	52_52_52_52	19.53	18.75	19.35	19.77	25.39	30.00	2.90	Pass
HE20	MCS0	4	48	5240	106_106	20.00	19.19	19.88	19.88	25.77	30.00	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

Note 3: The test results of full RU configs presented in the table are derived from the orignally-granted test test report (FR210728001D) for power and PSD comparison against Partial loaded RU configs.

Note 4: The power setting of partial RU increases or decreases in one dB step, wheras the power setting in Full RU are half dB step.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	11.67	17.00	5.91	Pass
HE20	MCS0	4	36	5180	52_52_52_52	10.89	17.00	5.91	Pass
HE20	MCS0	4	36	5180	106_106	10.97	17.00	5.91	Pass
HE20	MCS0	4	44	5220	Full	15.09	17.00	5.91	Pass
HE20	MCS0	4	44	5220	52_52_52_52	14.11	17.00	5.91	Pass
HE20	MCS0	4	44	5220	106_106	14.41	17.00	5.91	Pass
HE20	MCS0	4	48	5240	Full	14.87	17.00	5.91	Pass
HE20	MCS0	4	48	5240	52_52_52_52	13.72	17.00	5.91	Pass
HE20	MCS0	4	48	5240	106_106	14.10	17.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	17.47	17.02	17.45	16.94	23.25	23.98	2.90	Pass
HE20	MCS0	4	52	5260	52_52_52_52	15.92	14.96	15.59	15.84	21.61	23.98	2.90	Pass
HE20	MCS0	4	52	5260	106_106	16.20	15.23	15.57	15.54	21.67	23.98	2.90	Pass
HE20	MCS0	4	60	5300	Full	17.40	17.03	17.30	16.69	23.13	23.98	2.90	Pass
HE20	MCS0	4	60	5300	52_52_52_52	16.04	15.79	15.32	15.61	21.72	23.98	2.90	Pass
HE20	MCS0	4	60	5300	106_106	16.06	15.96	15.50	15.74	21.84	23.98	2.90	Pass
HE20	MCS0	4	64	5320	Full	17.56	17.07	17.54	16.75	23.26	23.98	2.90	Pass
HE20	MCS0	4	64	5320	52_52_52_52	15.53	14.93	15.47	15.52	21.39	23.98	2.90	Pass
HE20	MCS0	4	64	5320	106_106	15.62	15.18	15.67	15.40	21.49	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

Note 3: The test results of full RU configs presented in the table are derived from the orignally-granted test test report (FR210728001D) for power and PSD comparison against Partial loaded RU configs.

Note 4: The power setting of partial RU increases or decreases in one dB step, wheras the power setting in Full RU are half dB step.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	10.88	11.00	5.91	Pass
HE20	MCS0	4	52	5260	52_52_52_52	9.85	11.00	5.91	Pass
HE20	MCS0	4	52	5260	106_106	10.03	11.00	5.91	Pass
HE20	MCS0	4	60	5300	Full	10.83	11.00	5.91	Pass
HE20	MCS0	4	60	5300	52_52_52_52	9.85	11.00	5.91	Pass
HE20	MCS0	4	60	5300	106_106	10.08	11.00	5.91	Pass
HE20	MCS0	4	64	5320	Full	10.90	11.00	5.91	Pass
HE20	MCS0	4	64	5320	52_52_52_52	10.14	11.00	5.91	Pass
HE20	MCS0	4	64	5320	106_106	9.64	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	100	5500	Full	17.20	16.90	17.10	16.40	22.93	23.98	2.90	Pass
HE20	MCS0	4	100	5500	52_52_52_52	15.46	14.85	15.35	15.15	21.23	23.98	2.90	Pass
HE20	MCS0	4	100	5500	106_106	15.50	14.42	15.21	14.89	21.04	23.98	2.90	Pass
HE20	MCS0	4	116	5580	Full	17.33	16.71	17.43	16.66	23.07	23.98	2.90	Pass
HE20	MCS0	4	116	5580	52_52_52_52	15.77	14.89	15.93	15.62	21.59	23.98	2.90	Pass
HE20	MCS0	4	116	5580	106_106	15.70	15.61	15.25	15.16	21.46	23.98	2.90	Pass
HE20	MCS0	4	140	5700	Full	17.31	16.59	17.23	16.79	23.01	23.98	2.90	Pass
HE20	MCS0	4	140	5700	52_52_52_52	15.35	14.85	14.98	15.08	21.09	23.98	2.90	Pass
HE20	MCS0	4	140	5700	106_106	15.15	14.91	14.99	15.12	21.06	23.98	2.90	Pass

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	144	5720	Full	17.02	16.39	17.05	16.25	22.71	23.03	2.90	Pass
HE20	MCS0	4	144	5720	52/39+52/40	15.41	14.89	15.14	14.74	21.07	23.03	2.90	Pass
HE20	MCS0	4	144	5720	106/53+106/54	15.62	15.08	15.22	14.70	21.19	23.03	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

Note 3: The test results of full RU configs presented in the table are derived from the orignally-granted test test report (FR210728001D) for power and PSD comparison against Partial loaded RU configs.

Note 4: The power setting of partial RU increases or decreases in one dB step, wheras the power setting in Full RU are half dB step.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	100	5500	Full	10.71	11.00	5.91	Pass
HE20	MCS0	4	100	5500	52_52_52_52	9.51	11.00	5.91	Pass
HE20	MCS0	4	100	5500	106_106	9.92	11.00	5.91	Pass
HE20	MCS0	4	116	5580	Full	10.78	11.00	5.91	Pass
HE20	MCS0	4	116	5580	52_52_52_52	9.75	11.00	5.91	Pass
HE20	MCS0	4	116	5580	106_106	9.92	11.00	5.91	Pass
HE20	MCS0	4	140	5700	Full	10.81	11.00	5.91	Pass
HE20	MCS0	4	140	5700	52_52_52_52	10.24	11.00	5.91	Pass
HE20	MCS0	4	140	5700	106_106	9.97	11.00	5.91	Pass

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C									
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant A + D + B + C	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	144	5720	Full	10.58	11.00	5.91	Pass
HE20	MCS0	4	144	5720	52_52_52_52	10.04	11.00	5.91	Pass
HE20	MCS0	4	144	5720	106_106	9.87	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
HE20	MCS0	4	36	5180	Full	21.65	21.50	21.75	21.60	18.93	18.88	18.93	18.93	22.76
HE20	MCS0	4	44	5220	Full	23.40	22.75	22.85	22.55	18.98	19.03	19.03	18.98	22.78
HE20	MCS0	4	48	5240	Full	22.70	22.35	22.25	22.30	18.98	18.93	18.93	18.93	22.77
HE40	MCS0	4	38	5190	Full	41.13	40.32	40.95	41.04	37.86	37.86	37.96	37.86	23.01
HE40	MCS0	4	46	5230	Full	41.04	41.13	41.40	41.31	37.96	37.96	37.96	37.96	23.01
HE80	MCS0	4	42	5210	Full	82.08	82.08	82.56	82.08	77.08	76.84	76.96	76.96	23.01
HE80+80	MCS0	4	42	5210	Full	81.76	-	81.92	-	76.60	-	76.60	-	23.01
			58	5290	Full	-	82.08	-	82.40	-	76.72	-	76.48	30.00

TEST RESULTS DATA
26dB and 99% OBW

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
HE20	MCS0	4	52	5260	Full	21.95	21.85	21.65	21.85	23.98
HE20	MCS0	4	60	5300	Full	22.25	21.70	22.00	21.95	23.98
HE20	MCS0	4	64	5320	Full	21.80	21.95	21.80	22.10	23.98
HE40	MCS0	4	54	5270	Full	40.59	40.77	40.77	40.95	23.98
HE40	MCS0	4	62	5310	Full	40.68	40.50	40.50	40.41	23.98
HE80	MCS0	4	58	5290	Full	82.88	82.08	82.08	82.72	23.98

FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A	Ant D	Ant B	Ant C
HE20	MCS0	4	52	5260	Full	18.93	18.93	18.88	18.93	23.76	29.76			
HE20	MCS0	4	60	5300	Full	18.93	18.93	18.93	18.93	23.77	29.77			
HE20	MCS0	4	64	5320	Full	18.93	18.88	18.93	18.93	23.76	29.76			
HE40	MCS0	4	54	5270	Full	37.86	37.86	37.86	37.86	23.98	30.00			
HE40	MCS0	4	62	5310	Full	37.96	37.86	37.86	37.86	23.98	30.00			
HE80	MCS0	4	58	5290	Full	76.96	76.96	77.20	77.08	23.98	30.00			

TEST RESULTS DATA
26dB and 99% OBW

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C
HE20	MCS0	4	100	5500	Full	21.90	21.85	21.35	21.95	23.98
HE20	MCS0	4	116	5580	Full	21.65	21.85	21.35	21.20	23.98
HE20	MCS0	4	140	5700	Full	21.50	21.70	21.70	21.70	23.98
HE40	MCS0	4	102	5510	Full	40.59	40.50	41.31	40.50	23.98
HE40	MCS0	4	110	5550	Full	40.86	41.40	40.32	40.68	23.98
HE40	MCS0	4	134	5670	Full	40.68	40.68	41.13	40.50	23.98
HE80	MCS0	4	106	5530	Full	82.40	82.72	82.56	81.60	23.98
HE80	MCS0	4	122	5610	Full	82.88	82.40	82.56	82.56	23.98
HE80+80	MCS0	4	106	5530	Full	82.48	-	82.48	-	23.98
			122	5610	Full	-	82.88	-	82.64	

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)		
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A	Ant D	Ant B	Ant C
HE20	MCS0	4	144	5720	Full	16.05	15.95	16.05	16.05	23.03	4.17	4.45	4.35	4.40
HE40	MCS0	4	142	5710	Full	35.25	35.25	35.43	35.43	23.98	3.99	3.99	3.90	3.90
HE80	MCS0	4	138	5690	Full	76.28	76.12	76.44	76.44	23.98	3.08	3.88	3.88	3.08

FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A + D + B + C
HE20	MCS0	4	100	5500	Full	18.88	18.93	18.88	18.88	23.76	29.76
HE20	MCS0	4	116	5580	Full	18.88	18.88	18.93	18.88	23.76	29.76
HE20	MCS0	4	140	5700	Full	18.88	18.88	18.88	18.93	23.76	29.76
HE40	MCS0	4	102	5510	Full	37.86	37.86	37.76	37.76	23.98	30.00
HE40	MCS0	4	110	5550	Full	37.86	37.86	37.76	37.76	23.98	30.00
HE40	MCS0	4	134	5670	Full	37.86	37.76	37.86	37.76	23.98	30.00
HE80	MCS0	4	106	5530	Full	76.96	77.08	76.96	76.96	23.98	30.00
HE80+80	MCS0	4	106	5530	Full	77.08	-	77.08	-	23.98	30.00
			122	5610	Full	-	77.08	-	76.84	23.98	30.00

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant D	Ant B	Ant C	Ant A + D + B + C	Ant A + D + B + C
HE20	MCS0	4	144	5720	Full	14.49	14.49	14.49	14.49	22.61	28.61
HE40	MCS0	4	142	5710	Full	33.98	33.88	33.98	33.98	23.98	30.00
HE80	MCS0	4	138	5690	Full	73.60	73.48	73.48	73.60	23.98	30.00

<TXBF>

TEST RESULTS DATA
Average Power Table

FCC UNII-1 Beamforming Mode Ant A + D + B + C												
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	36	5180	18.64	18.20	18.61	18.36	24.48	30.00	5.91	Pass
11a	6Mbps	4	44	5220	21.47	21.29	21.76	21.29	27.48	30.00	5.91	Pass
11a	6Mbps	4	48	5240	21.50	21.10	21.63	21.17	27.38	30.00	5.91	Pass
HT20	MCS0	4	36	5180	17.87	17.41	17.99	17.58	23.74	30.00	5.91	Pass
HT20	MCS0	4	44	5220	21.10	20.90	21.50	21.10	27.18	30.00	5.91	Pass
HT20	MCS0	4	48	5240	21.27	20.81	21.34	20.64	27.05	30.00	5.91	Pass
HT40	MCS0	4	38	5190	17.40	17.05	17.40	17.05	23.25	30.00	5.91	Pass
HT40	MCS0	4	46	5230	21.03	20.45	20.95	20.45	26.75	30.00	5.91	Pass
VHT20	MCS0	4	36	5180	17.88	17.65	17.96	17.39	23.75	30.00	5.91	Pass
VHT20	MCS0	4	44	5220	21.22	20.96	21.39	20.91	27.15	30.00	5.91	Pass
VHT20	MCS0	4	48	5240	21.36	20.79	21.24	20.79	27.07	30.00	5.91	Pass
VHT40	MCS0	4	38	5190	17.44	16.98	17.46	17.03	23.25	30.00	5.91	Pass
VHT40	MCS0	4	46	5230	20.93	20.50	20.99	20.49	26.75	30.00	5.91	Pass
VHT80	MCS0	4	42	5210	16.86	16.47	16.94	16.52	22.72	30.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2a Beamforming Mode Ant A + D + B + C												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	52	5260	16.74	16.17	16.86	16.32	22.55	23.98	5.91	Pass
11a	6Mbps	4	60	5300	16.61	16.24	16.63	15.99	22.40	23.98	5.91	Pass
11a	6Mbps	4	64	5320	16.29	15.72	16.50	15.89	22.13	23.98	5.91	Pass
HT20	MCS0	4	52	5260	17.48	17.02	17.44	16.65	23.18	23.98	5.91	Pass
HT20	MCS0	4	60	5300	17.30	17.00	17.30	16.70	23.10	23.98	5.91	Pass
HT20	MCS0	4	64	5320	17.53	16.78	17.43	16.85	23.18	23.98	5.91	Pass
HT40	MCS0	4	54	5270	18.10	17.20	17.90	17.50	23.71	23.98	5.91	Pass
HT40	MCS0	4	62	5310	15.58	14.88	15.58	15.20	21.34	23.98	5.91	Pass
VHT20	MCS0	4	52	5260	17.40	17.00	17.56	16.86	23.23	23.98	5.91	Pass
VHT20	MCS0	4	60	5300	17.57	16.75	17.42	16.55	23.11	23.98	5.91	Pass
VHT20	MCS0	4	64	5320	17.46	16.96	17.52	16.96	23.25	23.98	5.91	Pass
VHT40	MCS0	4	54	5270	18.01	17.33	17.95	17.51	23.73	23.98	5.91	Pass
VHT40	MCS0	4	62	5310	15.63	14.96	15.57	15.26	21.38	23.98	5.91	Pass
VHT80	MCS0	4	58	5290	15.87	15.39	15.81	15.18	21.59	23.98	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2c Beamforming Mode Ant A + D + B + C												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	100	5500	16.51	16.12	16.36	15.44	22.15	23.98	5.91	Pass
11a	6Mbps	4	116	5580	16.62	16.35	16.73	15.98	22.45	23.98	5.91	Pass
11a	6Mbps	4	140	5700	16.58	16.19	16.57	15.77	22.31	23.98	5.91	Pass
HT20	MCS0	4	100	5500	17.00	16.70	17.10	16.80	22.92	23.98	5.91	Pass
HT20	MCS0	4	116	5580	17.10	16.64	17.37	16.93	23.04	23.98	5.91	Pass
HT20	MCS0	4	140	5700	17.09	16.47	16.84	16.45	22.74	23.98	5.91	Pass
HT40	MCS0	4	102	5510	17.75	17.05	17.75	17.25	23.48	23.98	5.91	Pass
HT40	MCS0	4	110	5550	17.89	17.29	18.09	17.64	23.76	23.98	5.91	Pass
HT40	MCS0	4	134	5670	17.80	17.30	18.47	17.21	23.75	23.98	5.91	Pass
VHT20	MCS0	4	100	5500	17.26	16.73	17.05	16.45	22.90	23.98	5.91	Pass
VHT20	MCS0	4	116	5580	17.17	16.80	17.30	16.79	23.04	23.98	5.91	Pass
VHT20	MCS0	4	140	5700	17.54	16.82	17.01	16.44	22.99	23.98	5.91	Pass
VHT40	MCS0	4	102	5510	17.83	17.03	17.77	17.21	23.49	23.98	5.91	Pass
VHT40	MCS0	4	110	5550	17.83	17.33	18.15	17.98	23.85	23.98	5.91	Pass
VHT40	MCS0	4	134	5670	17.92	17.45	18.08	17.39	23.74	23.98	5.91	Pass
VHT80	MCS0	4	106	5530	17.47	16.77	17.52	16.91	23.20	23.98	5.91	Pass
VHT80	MCS0	4	122	5610	17.80	17.41	18.29	17.81	23.86	23.98	5.91	Pass

FCC UNII-2c Straddle Channel Beamforming Mode Ant A + D + B + C												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
11a	6Mbps	4	144	5720	16.55	16.01	16.41	15.21	22.10	22.83	5.91	Pass
HT20	MCS0	4	144	5720	16.95	16.35	17.05	16.25	22.68	23.98	5.91	Pass
HT40	MCS0	4	142	5710	18.06	17.55	18.05	17.67	23.86	23.98	5.91	Pass
VHT20	MCS0	4	144	5720	16.88	16.59	16.87	16.02	22.62	23.98	5.91	Pass
VHT40	MCS0	4	142	5710	18.06	17.60	18.12	17.76	23.91	23.98	5.91	Pass
VHT80	MCS0	4	138	5690	18.04	17.57	18.16	17.53	23.85	23.98	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-1 Beamforming Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	36	5180	Full	17.81	17.51	18.03	17.67	23.78	30.00	2.90	Pass
HE20	MCS0	4	44	5220	Full	21.12	20.99	21.35	21.19	27.19	30.00	2.90	Pass
HE20	MCS0	4	48	5240	Full	21.21	20.94	21.38	20.72	27.09	30.00	2.90	Pass
HE40	MCS0	4	38	5190	Full	17.30	17.10	17.50	17.10	23.27	30.00	2.90	Pass
HE40	MCS0	4	46	5230	Full	20.84	20.62	21.01	20.53	26.77	30.00	2.90	Pass
HE80	MCS0	4	42	5210	Full	16.90	16.50	16.90	16.60	22.75	30.00	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB= 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2a Beamforming Mode Ant A + D + B + C													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	52	5260	Full	17.47	17.02	17.45	16.94	23.25	23.98	2.90	Pass
HE20	MCS0	4	60	5300	Full	17.40	17.03	17.30	16.69	23.13	23.98	2.90	Pass
HE20	MCS0	4	64	5320	Full	17.56	17.07	17.54	16.75	23.26	23.98	2.90	Pass
HE40	MCS0	4	54	5270	Full	17.98	17.37	17.90	17.61	23.74	23.98	2.90	Pass
HE40	MCS0	4	62	5310	Full	15.55	14.98	15.59	15.39	21.40	23.98	2.90	Pass
HE80	MCS0	4	58	5290	Full	15.90	15.40	15.80	15.30	21.63	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB= 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2c Beamforming Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	100	5500	Full	17.20	16.90	17.10	16.40	22.93	23.98	2.90	Pass
HE20	MCS0	4	116	5580	Full	17.33	16.71	17.43	16.66	23.07	23.98	2.90	Pass
HE20	MCS0	4	140	5700	Full	17.31	16.59	17.23	16.79	23.01	23.98	2.90	Pass
HE40	MCS0	4	102	5510	Full	17.70	17.14	17.79	17.29	23.51	23.98	2.90	Pass
HE40	MCS0	4	110	5550	Full	17.91	17.35	18.17	17.93	23.87	23.98	2.90	Pass
HE40	MCS0	4	134	5670	Full	17.95	17.54	18.04	17.45	23.77	23.98	2.90	Pass
HE80	MCS0	4	106	5530	Full	17.50	16.90	17.50	16.90	23.23	23.98	2.90	Pass
HE80	MCS0	4	122	5610	Full	17.90	17.40	18.30	17.80	23.88	23.98	2.90	Pass

FCC UNII-2c Beamforming Mode Ant A + D + B + C													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM	Ant A + D + B + C	Ant A + D + B + C	
HE20	MCS0	4	144	5720	Full	17.02	16.39	17.05	16.25	22.71	23.03	2.90	Pass
HE40	MCS0	4	142	5710	Full	18.08	17.62	18.04	17.83	23.92	23.98	2.90	Pass
HE80	MCS0	4	138	5690	Full	18.10	17.60	18.00	17.70	23.88	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB= 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

UNII-2c MIMO 4Tx Mode Ant E + H + F + G									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
					Ant E	Ant H	Ant F	Ant G	Ant E + H + F + G
11a	6Mbps	4	100	5500	21.90	21.00	21.50	21.20	23.98
11a	6Mbps	4	116	5580	22.00	21.55	21.85	21.55	23.98
11a	6Mbps	4	140	5700	22.30	21.25	21.60	21.70	23.98

UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
					Ant E	Ant H	Ant F	Ant G	Ant E + H + F + G	Ant E	Ant H	Ant F	Ant G
11a	6Mbps	4	144	5720	15.80	15.35	15.65	15.45	22.86	3.22	3.30	3.30	3.30

UNII-2c MIMO 4Tx Mode Ant E + H + F + G										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
					Ant E	Ant H	Ant F	Ant G	Ant E + H + F + G	Ant E + H + F + G
11a	6Mbps	4	100	5500	16.78	16.78	16.73	16.73	23.24	29.24
11a	6Mbps	4	116	5580	16.78	16.73	16.78	16.73	23.24	29.24
11a	6Mbps	4	140	5700	16.78	16.73	16.78	16.73	23.24	29.24

UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
					Ant E	Ant H	Ant F	Ant G	Ant E + H + F + G	Ant E + H + F + G
11a	6Mbps	4	144	5720	13.34	13.34	13.34	13.34	22.25	28.25

TEST RESULTS DATA
Average Power Table

FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
11a	6Mbps	4	100	5500	15.29	14.96	15.44	14.69	21.13	23.98	2.90	Pass
11a	6Mbps	4	116	5580	15.66	15.13	15.86	15.15	21.48	23.98	2.90	Pass
11a	6Mbps	4	140	5700	15.91	15.58	16.28	15.70	21.90	23.98	2.90	Pass
HT20	MCS0	4	100	5500	16.80	16.39	16.72	16.23	22.56	23.98	2.90	Pass
HT20	MCS0	4	116	5580	16.86	16.31	17.11	16.32	22.68	23.98	2.90	Pass
HT20	MCS0	4	140	5700	16.65	16.11	16.82	16.20	22.48	23.98	2.90	Pass
HT40	MCS0	4	102	5510	17.82	17.40	18.00	17.20	23.64	23.98	2.90	Pass
HT40	MCS0	4	110	5550	17.80	17.20	18.00	17.20	23.59	23.98	2.90	Pass
HT40	MCS0	4	134	5670	18.10	17.40	18.15	17.65	23.86	23.98	2.90	Pass
VHT20	MCS0	4	100	5500	16.74	16.44	16.80	16.27	22.59	23.98	2.90	Pass
VHT20	MCS0	4	116	5580	16.96	16.34	17.02	16.34	22.70	23.98	2.90	Pass
VHT20	MCS0	4	140	5700	16.67	16.12	16.86	16.26	22.51	23.98	2.90	Pass
VHT40	MCS0	4	102	5510	17.75	17.45	18.05	17.20	23.64	23.98	2.90	Pass
VHT40	MCS0	4	110	5550	17.82	17.25	18.01	17.20	23.60	23.98	2.90	Pass
VHT40	MCS0	4	134	5670	18.10	17.35	18.20	17.55	23.84	23.98	2.90	Pass
VHT80	MCS0	4	106	5530	17.71	17.27	17.93	16.99	23.51	23.98	2.90	Pass
VHT80	MCS0	4	122	5610	17.66	17.50	17.98	17.25	23.63	23.98	2.90	Pass
VHT160	MCS0	4	114	5570	17.20	16.60	17.30	16.50	22.93	23.98	2.90	Pass

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
11a	6Mbps	4	144	5720	16.23	15.56	16.13	15.51	21.89	22.86	2.90	Pass
HT20	MCS0	4	144	5720	16.65	16.16	16.79	16.13	22.46	23.98	2.90	Pass
HT40	MCS0	4	142	5710	18.09	17.52	18.24	17.70	23.92	23.98	2.90	Pass
VHT20	MCS0	4	144	5720	16.76	16.25	16.74	16.07	22.49	23.98	2.90	Pass
VHT40	MCS0	4	142	5710	18.05	17.50	18.30	17.60	23.90	23.98	2.90	Pass
VHT80	MCS0	4	138	5690	18.10	17.50	18.20	17.70	23.90	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
					Ant E + H + F + G	Ant E + H + F + G	Ant E + H + F + G	
11a	6Mbps	4	100	5500	10.52	11.00	5.91	Pass
11a	6Mbps	4	116	5580	10.53	11.00	5.91	Pass
11a	6Mbps	4	140	5700	10.74	11.00	5.91	Pass

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
					Ant E + H + F + G	Ant E + H + F + G	Ant E + H + F + G	
11a	6Mbps	4	144	5720	10.97	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another. Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO 4Tx Mode Ant E + H + F + G										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)
						Ant E	Ant H	Ant F	Ant G	Ant E + H + F + G
HE20	MCS0	4	100	5500	Full	22.30	22.65	22.90	23.10	23.98
HE20	MCS0	4	116	5580	Full	22.95	23.05	22.60	22.50	23.98
HE20	MCS0	4	140	5700	Full	22.70	23.30	22.90	22.80	23.98
HE40	MCS0	4	102	5510	Full	40.23	40.50	40.14	40.05	23.98
HE40	MCS0	4	110	5550	Full	40.23	40.14	40.14	39.87	23.98
HE40	MCS0	4	134	5670	Full	40.41	40.23	40.05	40.05	23.98
HE80	MCS0	4	106	5530	Full	82.24	81.76	82.08	82.56	23.98
HE80	MCS0	4	122	5610	Full	82.88	82.56	82.72	81.92	23.98
HE160	MCS0	4	114	5570	Full	163.84	163.84	163.84	164.16	23.98

Band III Straddle Channel MIMO 4Tx Mode Ant E + H + F + G														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
						Ant E	Ant H	Ant F	Ant G	Ant E + H + F + G	Ant E	Ant H	Ant F	Ant G
HE20	MCS0	4	144	5720	Full	16.30	16.40	16.20	16.60	23.10	4.52	4.55	4.60	4.60
HE40	MCS0	4	142	5710	Full	34.89	34.89	35.25	34.98	23.98	3.95	3.90	3.90	3.99
HE80	MCS0	4	138	5690	Full	76.12	76.60	76.60	76.44	23.98	3.56	3.56	3.72	4.04

TEST RESULTS DATA
Average Power Table

FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G													
MO 2Tx	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	100	5500	Full	16.80	16.58	16.94	16.37	22.70	23.98	2.90	Pass
HE20	MCS0	4	116	5580	Full	17.02	16.37	17.23	16.52	22.82	23.98	2.90	Pass
HE20	MCS0	4	140	5700	Full	16.79	16.19	17.04	16.40	22.64	23.98	2.90	Pass
HE40	MCS0	4	102	5510	Full	17.76	17.39	18.16	17.14	23.65	23.98	2.90	Pass
HE40	MCS0	4	110	5550	Full	17.75	17.28	18.08	17.17	23.61	23.98	2.90	Pass
HE40	MCS0	4	134	5670	Full	18.12	17.48	18.20	17.56	23.87	23.98	2.90	Pass
HE80	MCS0	4	106	5530	Full	17.77	17.31	17.96	16.99	23.54	23.98	2.90	Pass
HE80	MCS0	4	122	5610	Full	17.66	17.47	18.10	17.27	23.66	23.98	2.90	Pass
HE160	MCS0	4	114	5570	Full	17.30	16.60	17.40	16.80	23.06	23.98	2.90	Pass

FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	144	5720	Full	16.82	16.37	16.84	16.29	22.61	23.10	2.90	Pass
HE40	MCS0	4	142	5710	Full	18.10	17.50	18.31	17.68	23.93	23.98	2.90	Pass
HE80	MCS0	4	138	5690	Full	18.19	17.58	18.21	17.70	23.95	23.98	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant E + H + F + G	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	100	5500	Full	10.96	11.00	5.91	Pass
HE20	MCS0	4	116	5580	Full	10.90	11.00	5.91	Pass
HE20	MCS0	4	140	5700	Full	10.80	11.00	5.91	Pass
HE40	MCS0	4	102	5510	Full	9.11	11.00	5.91	Pass
HE40	MCS0	4	110	5550	Full	8.98	11.00	5.91	Pass
HE40	MCS0	4	134	5670	Full	9.17	11.00	5.91	Pass
HE80	MCS0	4	106	5530	Full	6.07	11.00	5.91	Pass
HE80	MCS0	4	122	5610	Full	6.19	11.00	5.91	Pass
HE160	MCS0	4	114	5570	Full	2.53	11.00	5.91	Pass

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant E + H + F + G	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	144	5720	Full	10.85	11.00	5.91	Pass
HE40	MCS0	4	142	5710	Full	9.30	11.00	5.91	Pass
HE80	MCS0	4	138	5690	Full	6.30	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	100	5500	Full	16.80	16.58	16.94	16.37	22.70	23.98	2.90	Pass
HE20	MCS0	4	100	5500	52_52_52_52	15.79	15.40	15.99	15.95	21.81	23.98	2.90	Pass
HE20	MCS0	4	100	5500	106_106	15.92	15.47	15.87	15.89	21.81	23.98	2.90	Pass
HE20	MCS0	4	116	5580	Full	17.02	16.37	17.23	16.52	22.82	23.98	2.90	Pass
HE20	MCS0	4	116	5580	52_52_52_52	15.86	15.34	16.03	15.96	21.83	23.98	2.90	Pass
HE20	MCS0	4	116	5580	106_106	15.89	15.28	15.86	15.81	21.74	23.98	2.90	Pass
HE20	MCS0	4	140	5700	Full	16.79	16.19	17.04	16.40	22.64	23.98	2.90	Pass
HE20	MCS0	4	140	5700	52_52_52_52	15.97	15.36	15.88	15.79	21.78	23.98	2.90	Pass
HE20	MCS0	4	140	5700	106_106	15.93	15.24	15.65	15.74	21.67	23.98	2.90	Pass

FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	144	5720	Full	16.82	16.37	16.84	16.29	22.61	23.10	2.90	Pass
HE20	MCS0	4	144	5720	52_52_52_52	15.82	15.22	15.56	15.76	21.62	23.10	2.90	Pass
HE20	MCS0	4	144	5720	106_106	15.84	15.08	15.45	15.72	21.55	23.10	2.90	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

Note 3: The test results of full RU configs presented in the table are derived from the orignally-granted test test report (FR210728001D) for power and PSD comparison against Partial loaded RU configs.

Note 4: The power setting of partial RU increases or decreases in one dB step, wheras the power setting in Full RU are half dB step.

TEST RESULTS DATA
Power Spectral Density

FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi) (see note.1)	Pass /Fail
						Ant E + H + F + G	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	100	5500	Full	10.96	11.00	5.91	Pass
HE20	MCS0	4	100	5500	52_52_52_52	10.37	11.00	5.91	Pass
HE20	MCS0	4	100	5500	106_106	10.31	11.00	5.91	Pass
HE20	MCS0	4	116	5580	Full	10.90	11.00	5.91	Pass
HE20	MCS0	4	116	5580	52_52_52_52	10.32	11.00	5.91	Pass
HE20	MCS0	4	116	5580	106_106	10.16	11.00	5.91	Pass
HE20	MCS0	4	140	5700	Full	10.80	11.00	5.91	Pass
HE20	MCS0	4	140	5700	52_52_52_52	10.23	11.00	5.91	Pass
HE20	MCS0	4	140	5700	106_106	10.18	11.00	5.91	Pass

FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant E + H + F + G	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	144	5720	Full	10.85	11.00	5.91	Pass
HE20	MCS0	4	144	5720	52_52_52_52	10.03	11.00	5.91	Pass
HE20	MCS0	4	144	5720	106_106	9.98	11.00	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

<TXBF>

TEST RESULTS DATA
Average Power Table

FCC UNII-2c Beamforming Mode Ant E + H + F + G												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
11a	6Mbps	4	100	5500	15.29	14.96	15.44	14.69	21.13	23.98	5.91	Pass
11a	6Mbps	4	116	5580	15.66	15.13	15.86	15.15	21.48	23.98	5.91	Pass
11a	6Mbps	4	140	5700	15.91	15.58	16.28	15.70	21.90	23.98	5.91	Pass
HT20	MCS0	4	100	5500	16.80	16.39	16.72	16.23	22.56	23.98	5.91	Pass
HT20	MCS0	4	116	5580	16.86	16.31	17.11	16.32	22.68	23.98	5.91	Pass
HT20	MCS0	4	140	5700	16.65	16.11	16.82	16.20	22.48	23.98	5.91	Pass
HT40	MCS0	4	102	5510	17.82	17.40	18.00	17.20	23.64	23.98	5.91	Pass
HT40	MCS0	4	110	5550	17.80	17.20	18.00	17.20	23.59	23.98	5.91	Pass
HT40	MCS0	4	134	5670	18.10	17.40	18.15	17.65	23.86	23.98	5.91	Pass
VHT20	MCS0	4	100	5500	16.74	16.44	16.80	16.27	22.59	23.98	5.91	Pass
VHT20	MCS0	4	116	5580	16.96	16.34	17.02	16.34	22.70	23.98	5.91	Pass
VHT20	MCS0	4	140	5700	16.67	16.12	16.86	16.26	22.51	23.98	5.91	Pass
VHT40	MCS0	4	102	5510	17.75	17.45	18.05	17.20	23.64	23.98	5.91	Pass
VHT40	MCS0	4	110	5550	17.82	17.25	18.01	17.20	23.60	23.98	5.91	Pass
VHT40	MCS0	4	134	5670	18.10	17.35	18.20	17.55	23.84	23.98	5.91	Pass
VHT80	MCS0	4	106	5530	17.71	17.27	17.93	16.99	23.51	23.98	5.91	Pass
VHT80	MCS0	4	122	5610	17.66	17.50	17.98	17.25	23.63	23.98	5.91	Pass
VHT160	MCS0	4	114	5570	17.20	16.60	17.30	16.50	22.93	23.98	5.91	Pass

FCC UNII-2c Straddle Channel Beamforming Mode Ant E + H + F + G												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
11a	6Mbps	4	144	5720	16.23	15.56	16.13	15.51	21.89	22.86	5.91	Pass
HT20	MCS0	4	144	5720	16.65	16.16	16.79	16.13	22.46	23.98	5.91	Pass
HT40	MCS0	4	142	5710	18.09	17.52	18.24	17.70	23.92	23.98	5.91	Pass
VHT20	MCS0	4	144	5720	16.76	16.25	16.74	16.07	22.49	23.98	5.91	Pass
VHT40	MCS0	4	142	5710	18.05	17.50	18.30	17.60	23.90	23.98	5.91	Pass
VHT80	MCS0	4	138	5690	18.10	17.50	18.20	17.70	23.90	23.98	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB = 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

TEST RESULTS DATA
Average Power Table

FCC UNII-2c Beamforming Mode Ant E + H + F + G													
MO 2Tx	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	100	5500	Full	16.80	16.58	16.94	16.37	22.70	23.98	5.91	Pass
HE20	MCS0	4	116	5580	Full	17.02	16.37	17.23	16.52	22.82	23.98	5.91	Pass
HE20	MCS0	4	140	5700	Full	16.79	16.19	17.04	16.40	22.64	23.98	5.91	Pass
HE40	MCS0	4	102	5510	Full	17.76	17.39	18.16	17.14	23.65	23.98	5.91	Pass
HE40	MCS0	4	110	5550	Full	17.75	17.28	18.08	17.17	23.61	23.98	5.91	Pass
HE40	MCS0	4	134	5670	Full	18.12	17.48	18.20	17.56	23.87	23.98	5.91	Pass
HE80	MCS0	4	106	5530	Full	17.77	17.31	17.96	16.99	23.54	23.98	5.91	Pass
HE80	MCS0	4	122	5610	Full	17.66	17.47	18.10	17.27	23.66	23.98	5.91	Pass
HE160	MCS0	4	114	5570	Full	17.30	16.60	17.40	16.80	23.06	23.98	5.91	Pass

FCC UNII-2c Beamforming Mode Ant E + H + F + G													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant E	Ant H	Ant F	Ant G	SUM	Ant E + H + F + G	Ant E + H + F + G	
HE20	MCS0	4	144	5720	Full	16.82	16.37	16.84	16.29	22.61	23.10	5.91	Pass
HE40	MCS0	4	142	5710	Full	18.10	17.50	18.31	17.68	23.93	23.98	5.91	Pass
HE80	MCS0	4	138	5690	Full	18.19	17.58	18.21	17.70	23.95	23.98	5.91	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =G_{MAX} + Array Gain = 2.9 dBi + 3.01 dB= 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

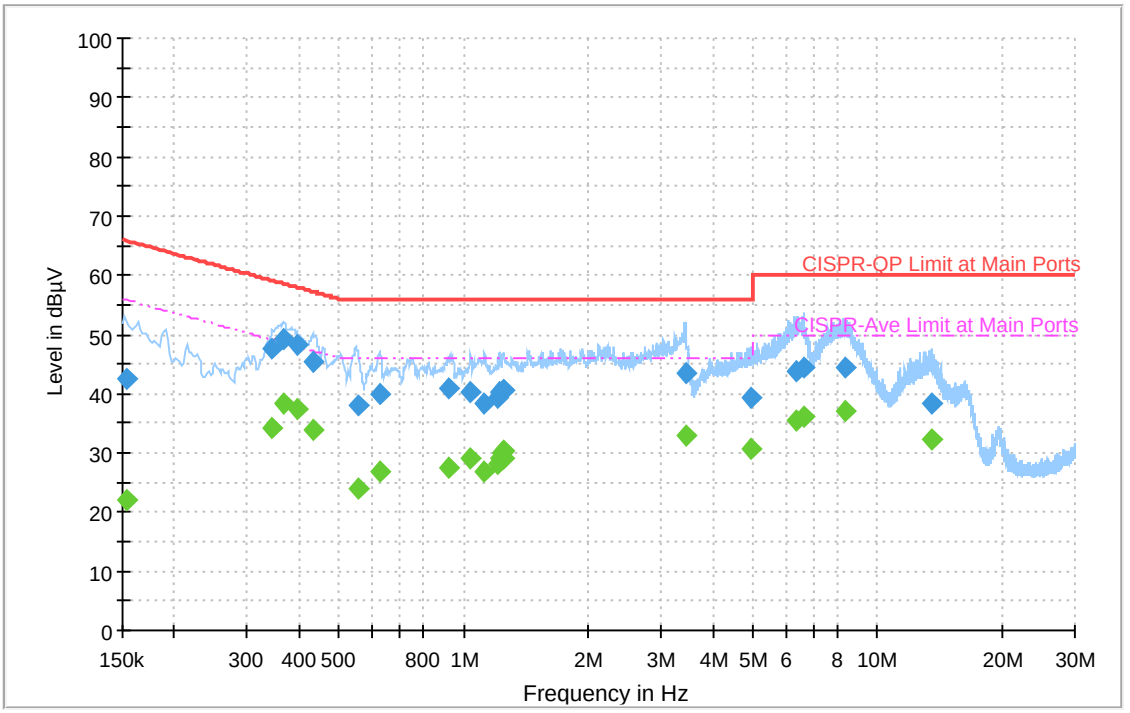
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Paul Lin	**Temperature :**	18~21℃
		Relative Humidity :	42~45%

EUT Information

Test Site Location :	CO01-CA
Power:	120Vac/60Hz
Mode:	1
Type:	Line

Full Spectrum



Final_Result

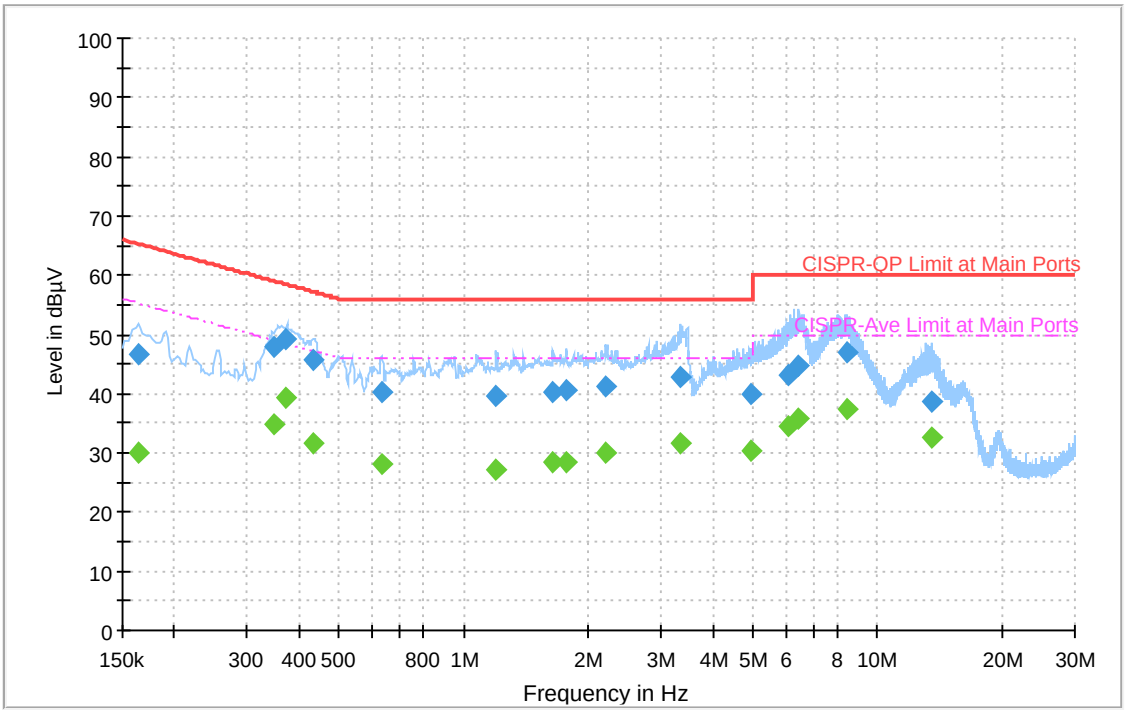
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152842	---	22.07	55.84	33.77	L1	OFF	20.3
0.152842	42.47	---	65.84	23.37	L1	OFF	20.3
0.344679	---	34.08	49.09	15.01	L1	OFF	20.3
0.344679	47.68	---	59.09	11.41	L1	OFF	20.3
0.368988	---	38.28	48.52	10.24	L1	OFF	20.3
0.368988	49.25	---	58.52	9.27	L1	OFF	20.3
0.395673	---	37.35	47.94	10.59	L1	OFF	20.3
0.395673	48.33	---	57.94	9.61	L1	OFF	20.3
0.431682	---	33.88	47.22	13.34	L1	OFF	20.3
0.431682	45.30	---	57.22	11.92	L1	OFF	20.3
0.554001	---	24.08	46.00	21.92	L1	OFF	20.3
0.554001	37.99	---	56.00	18.01	L1	OFF	20.3
0.624975	---	26.87	46.00	19.13	L1	OFF	20.3
0.624975	39.81	---	56.00	16.19	L1	OFF	20.3
0.921750	---	27.42	46.00	18.58	L1	OFF	20.3
0.921750	40.99	---	56.00	15.01	L1	OFF	20.3
1.037688	---	29.05	46.00	16.95	L1	OFF	20.3
1.037688	40.23	---	56.00	15.77	L1	OFF	20.3
1.120443	---	26.86	46.00	19.14	L1	OFF	20.3
1.120443	38.19	---	56.00	17.81	L1	OFF	20.3
1.212459	---	28.21	46.00	17.79	L1	OFF	20.3

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
1.212459	39.44	---	56.00	16.56	L1	OFF	20.3
1.226589	---	28.92	46.00	17.08	L1	OFF	20.3
1.226589	40.12	---	56.00	15.88	L1	OFF	20.3
1.236498	---	29.92	46.00	16.08	L1	OFF	20.3
1.236498	40.32	---	56.00	15.68	L1	OFF	20.3
1.244814	---	30.43	46.00	15.57	L1	OFF	20.3
1.244814	40.65	---	56.00	15.35	L1	OFF	20.3
1.244904	---	29.20	46.00	16.80	L1	OFF	20.3
1.244904	40.50	---	56.00	15.50	L1	OFF	20.3
3.431787	---	32.95	46.00	13.05	L1	OFF	20.4
3.431787	43.40	---	56.00	12.60	L1	OFF	20.4
4.930359	---	30.75	46.00	15.25	L1	OFF	20.4
4.930359	39.17	---	56.00	16.83	L1	OFF	20.4
6.328041	---	35.54	50.00	14.46	L1	OFF	20.4
6.328041	43.91	---	60.00	16.09	L1	OFF	20.4
6.612828	---	36.14	50.00	13.86	L1	OFF	20.4
6.612828	44.35	---	60.00	15.65	L1	OFF	20.4
8.328966	---	36.93	50.00	13.07	L1	OFF	20.5
8.328966	44.33	---	60.00	15.67	L1	OFF	20.5
13.504650	---	32.27	50.00	17.73	L1	OFF	20.5
13.504650	38.47	---	60.00	21.53	L1	OFF	20.5

EUT Information

Test Site Location :	CO01-CA
Power:	120Vac/60Hz
Mode:	1
Type:	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.164013	---	30.02	55.26	25.24	N	OFF	20.2
0.164013	46.57	---	65.26	18.69	N	OFF	20.2
0.346686	---	34.68	49.04	14.36	N	OFF	20.3
0.346686	47.93	---	59.04	11.11	N	OFF	20.3
0.371220	---	39.19	48.47	9.28	N	OFF	20.3
0.371220	49.18	---	58.47	9.29	N	OFF	20.3
0.431466	---	31.61	47.22	15.61	N	OFF	20.3
0.431466	45.58	---	57.22	11.64	N	OFF	20.3
0.634965	---	28.24	46.00	17.76	N	OFF	20.3
0.634965	40.28	---	56.00	15.72	N	OFF	20.3
1.201767	---	27.19	46.00	18.81	N	OFF	20.3
1.201767	39.64	---	56.00	16.36	N	OFF	20.3
1.643937	---	28.28	46.00	17.72	N	OFF	20.3
1.643937	40.41	---	56.00	15.59	N	OFF	20.3
1.769316	---	28.56	46.00	17.44	N	OFF	20.3
1.769316	40.70	---	56.00	15.30	N	OFF	20.3
2.210307	---	29.92	46.00	16.08	N	OFF	20.3
2.210307	41.21	---	56.00	14.79	N	OFF	20.3
3.341571	---	31.60	46.00	14.40	N	OFF	20.3
3.341571	42.83	---	56.00	13.17	N	OFF	20.3
4.944102	---	30.33	46.00	15.67	N	OFF	20.4

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
4.944102	39.82	---	56.00	16.18	N	OFF	20.4
6.084978	---	34.41	50.00	15.59	N	OFF	20.4
6.084978	43.29	---	60.00	16.71	N	OFF	20.4
6.428850	---	35.93	50.00	14.07	N	OFF	20.4
6.428850	44.78	---	60.00	15.22	N	OFF	20.4
8.447487	---	37.29	50.00	12.71	N	OFF	20.4
8.447487	46.85	---	60.00	13.15	N	OFF	20.4
13.513740	---	32.58	50.00	17.42	N	OFF	20.5
13.513740	38.75	---	60.00	21.25	N	OFF	20.5

Appendix C. Radiated Spurious Emission

Test Engineer :	Michael Bui, Daniel Lee	Temperature :	20~23.1°C
		Relative Humidity :	40~43.2%

<Radio 1>

UNII-1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5148.2	61.43	-12.57	74	48.32	31.99	11.19	30.07	264	163	P	H
		5146.9	51.28	-2.72	54	38.17	31.99	11.19	30.07	264	163	A	H
	*	5180	120.65	-	-	107.72	31.77	11.23	30.07	264	163	P	H
	*	5180	112.13	-	-	99.2	31.77	11.23	30.07	264	163	A	H
		5149.5	63.59	-10.41	74	50.43	32.04	11.19	30.07	268	334	P	V
		5149.76	52.93	-1.07	54	39.77	32.04	11.19	30.07	268	334	P	V
	*	5180	122.34	-	-	109.29	31.89	11.23	30.07	268	334	P	V
	*	5180	114.23	-	-	101.18	31.89	11.23	30.07	268	334	A	V
802.11a CH 44 5220MHz		5130	54.09	-19.91	74	40.96	32.03	11.17	30.07	268	168	P	H
		5126.88	46.29	-7.71	54	33.16	32.04	11.16	30.07	268	168	A	H
	*	5220	121.06	-	-	108.3	31.54	11.28	30.06	268	168	P	H
	*	5220	113.52	-	-	100.76	31.54	11.28	30.06	268	168	A	H
		5384.4	54.59	-19.41	74	41.53	31.71	11.42	30.07	268	168	P	H
		5409.88	47.43	-6.57	54	34.23	31.83	11.44	30.07	268	168	A	H
		5122.98	54.67	-19.33	74	41.49	32.1	11.16	30.08	284	177	P	V
		5109.98	46.19	-7.81	54	33	32.13	11.14	30.08	284	177	A	V
	*	5220	118.94	-	-	106.01	31.71	11.28	30.06	284	177	P	V
	*	5220	111.56	-	-	98.63	31.71	11.28	30.06	284	177	A	V
		5407.92	54.81	-19.19	74	41.64	31.8	11.44	30.07	284	177	P	V
		5350.24	47.96	-6.04	54	35.09	31.54	11.4	30.07	284	177	A	V

802.11a CH 48 5240MHz		5135.72	55.01	-18.99	74	41.88	32.02	11.18	30.07	266	45	P	H
		5149.24	47.83	-6.17	54	34.73	31.98	11.19	30.07	266	45	A	H
	*	5240	123.77	-	-	111.08	31.44	11.3	30.05	266	45	P	H
	*	5240	114.87	-	-	102.18	31.44	11.3	30.05	266	45	A	H
		5353.04	54.87	-19.13	74	41.98	31.56	11.4	30.07	266	45	P	H
		5349.96	45.83	-104.17	150	32.96	31.54	11.4	30.07	266	45	A	H
		5137.8	55.75	-18.25	74	42.58	32.06	11.18	30.07	289	336	P	V
		5145.6	46.77	-7.23	54	33.6	32.05	11.19	30.07	289	336	A	V
	*	5240	124.06	-	-	111.17	31.64	11.3	30.05	289	336	P	V
	*	5240	115.39	-	-	102.5	31.64	11.3	30.05	289	336	A	V
		5372.36	61.01	-12.99	74	48.03	31.64	11.41	30.07	289	336	P	V
		5370.68	46.89	-7.11	54	33.92	31.63	11.41	30.07	289	336	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	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 36 5180MHz		10360	51.64	-16.56	68.2	64.35	39.41	16.63	68.75	-	-	P	H
		11312	50.04	-23.96	74	60.55	39.79	17.45	67.75	-	-	P	H
		11312	41.71	-12.29	54	52.22	39.79	17.45	67.75	-	-	A	H
		13369	51.05	-22.95	74	59.95	39.56	19.23	67.69	-	-	P	H
		13369	43.07	-10.93	54	51.97	39.56	19.23	67.69	-	-	A	H
		14491	52.29	-21.71	74	58.05	41.94	20.04	67.74	-	-	P	H
		14491	43.81	-10.19	54	49.57	41.94	20.04	67.74	-	-	A	H
		15540	47.92	-26.08	74	57.83	38.19	20.71	68.81	-	-	P	H
		17989	60.37	-13.63	74	58.26	48.53	23	69.42	-	-	P	H
		17989	50.27	-3.73	54	48.16	48.53	23	69.42	-	-	A	H
		10360	53.43	-14.77	68.2	66.22	39.33	16.63	68.75	-	-	P	V
		11268	50.22	-23.78	74	60.95	39.65	17.41	67.79	-	-	P	V
		11268	41.91	-12.09	54	52.64	39.65	17.41	67.79	-	-	A	V
		13259	50.62	-23.38	74	60.04	39.19	19.14	67.75	-	-	P	V
		13259	43	-11	54	52.42	39.19	19.14	67.75	-	-	A	V
		14491	52.82	-21.18	74	58.57	41.95	20.04	67.74	-	-	P	V
		14491	43.86	-10.14	54	49.61	41.95	20.04	67.74	-	-	A	V
		15540	47.23	-26.77	74	57.04	38.29	20.71	68.81	-	-	P	V
		17967	60.98	-13.02	74	59.14	48.29	22.97	69.42	-	-	P	V
		17967	50.71	-3.29	54	48.87	48.29	22.97	69.42	-	-	A	V

WIFI	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)
		10440	50.66	-17.54	68.2	63.06	39.6	16.7	68.7	-	-	P	H
		11411	51.21	-22.79	74	61.31	40.03	17.54	67.67	-	-	P	H
		11411	42.29	-11.71	54	52.39	40.03	17.54	67.67	-	-	A	H
		13369	50.55	-23.45	74	59.45	39.56	19.23	67.69	-	-	P	H
		13369	43.07	-10.93	54	51.97	39.56	19.23	67.69	-	-	A	H
		14491	52.34	-21.66	74	58.1	41.94	20.04	67.74	-	-	P	H
		14491	43.69	-10.31	54	49.45	41.94	20.04	67.74	-	-	A	H
		15660	47.67	-26.33	74	57.72	37.8	20.79	68.64	-	-	P	H
		17989	60.68	-13.32	74	58.57	48.53	23	69.42	-	-	P	H
		17989	50.17	-3.83	54	48.06	48.53	23	69.42	-	-	A	H
802.11a													
CH 44		10440	52.41	-15.79	68.2	64.84	39.57	16.7	68.7	-	-	P	V
5220MHz		11356	50.72	-23.28	74	61.1	39.84	17.49	67.71	-	-	P	V
		11356	41.65	-12.35	54	52.03	39.84	17.49	67.71	-	-	A	V
		13380	51.05	-22.95	74	59.88	39.61	19.24	67.68	-	-	P	V
		13380	42.94	-11.06	54	51.77	39.61	19.24	67.68	-	-	A	V
		14491	53.15	-20.85	74	58.9	41.95	20.04	67.74	-	-	P	V
		14491	42.34	-11.66	54	48.09	41.95	20.04	67.74	-	-	A	V
		15660	47.91	-26.09	74	57.89	37.87	20.79	68.64	-	-	P	V
		17945	60.76	-13.24	74	59.44	47.79	22.95	69.42	-	-	P	V
		17945	50.39	-3.61	54	49.07	47.79	22.95	69.42	-	-	A	V

WIFI	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 48 5240MHz		10480	52.38	-15.82	68.2	64.63	39.7	16.73	68.68	-	-	P	H
		11422	50.49	-23.51	74	60.55	40.05	17.55	67.66	-	-	P	H
		11422	41.71	-12.29	54	51.77	40.05	17.55	67.66	-	-	A	H
		13292	50.4	-23.6	74	59.67	39.29	19.17	67.73	-	-	P	H
		13292	43.56	-10.44	54	52.83	39.29	19.17	67.73	-	-	A	H
		14491	52.13	-21.87	74	57.89	41.94	20.04	67.74	-	-	P	H
		14491	42.67	-11.33	54	48.43	41.94	20.04	67.74	-	-	A	H
		15720	49.52	-24.48	74	59.63	37.62	20.83	68.56	210	227	P	H
		15720	42.62	-11.38	54	52.73	37.62	20.83	68.56	210	227	A	H
		17989	60.64	-13.36	74	58.53	48.53	23	69.42	-	-	P	H
		17989	50.68	-3.32	54	48.57	48.53	23	69.42	-	-	A	H
		10480	52.01	-16.19	68.2	64.32	39.64	16.73	68.68	-	-	P	V
		11389	50.43	-23.57	74	60.69	39.9	17.53	67.69	-	-	P	V
		11389	42.78	-11.22	54	53.04	39.9	17.53	67.69	-	-	A	V
		13369	50.79	-23.21	74	59.69	39.56	19.23	67.69	-	-	P	V
		13369	43.54	-10.46	54	52.44	39.56	19.23	67.69	-	-	A	V
		14491	51.85	-22.15	74	57.6	41.95	20.04	67.74	-	-	P	V
		14491	46.01	-7.99	54	51.76	41.95	20.04	67.74	-	-	A	V
		15720	49.42	-24.58	74	59.42	37.73	20.83	68.56	319	239	P	V
		15720	41.36	-12.64	54	51.36	37.73	20.83	68.56	319	239	A	V
		17978	60.55	-13.45	74	58.44	48.54	22.99	69.42	-	-	P	V
		17978	50.62	-3.38	54	48.51	48.54	22.99	69.42	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-1 5150~5250MHz

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

WIFI	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)
		5144.56	62.14	-11.86	74	49.03	31.99	11.19	30.07	271	333	P	H
		5143	51.08	-2.92	54	37.96	32	11.19	30.07	271	333	A	H
	*	5180	119.82	-	-	106.89	31.77	11.23	30.07	271	333	P	H
	*	5180	110.98	-	-	98.05	31.77	11.23	30.07	271	333	A	H
802.11ax													
HE20 Full													
CH 36		5146.38	63.3	-10.7	74	50.14	32.04	11.19	30.07	287	333	P	V
5180MHz		5146.9	53.31	-0.69	54	40.15	32.04	11.19	30.07	287	333	A	V
	*	5180	121	-	-	107.95	31.89	11.23	30.07	287	333	P	V
	*	5180	112.62	-	-	99.57	31.89	11.23	30.07	287	333	A	V
		5125.58	54.65	-19.35	74	41.52	32.04	11.16	30.07	301	12	P	H
		5129.74	45.29	-8.71	54	32.16	32.03	11.17	30.07	301	12	A	H
	*	5220	119.66	-	-	106.9	31.54	11.28	30.06	301	12	P	H
	*	5220	112.18	-	-	99.42	31.54	11.28	30.06	301	12	A	H
802.11ax		5439	54.01	-19.99	74	40.67	31.95	11.47	30.08	301	12	P	H
HE20 Full		5417.72	45.8	-8.2	54	32.56	31.86	11.45	30.07	301	12	A	H
CH 44		5101.92	54.49	-19.51	74	41.29	32.15	11.13	30.08	279	176	P	V
5220MHz		5147.94	44.72	-9.28	54	31.56	32.04	11.19	30.07	279	176	A	V
	*	5220	118.72	-	-	105.79	31.71	11.28	30.06	279	176	P	V
	*	5220	110.46	-	-	97.53	31.71	11.28	30.06	279	176	A	V
		5430.88	54.59	-19.41	74	41.32	31.89	11.46	30.08	279	176	P	V
		5410.16	45.28	-8.72	54	32.1	31.81	11.44	30.07	279	176	A	V

		5149.5	54.75	-19.25	74	41.65	31.98	11.19	30.07	297	17	P	H
		5143	46.24	-7.76	54	33.12	32	11.19	30.07	297	17	A	H
	*	5240	123.14	-	-	110.45	31.44	11.3	30.05	297	17	P	H
	*	5240	114.12	-	-	101.43	31.44	11.3	30.05	297	17	A	H
802.11ax		5422.76	53.72	-20.28	74	40.46	31.88	11.45	30.07	297	17	P	H
HE20 Full		5381.04	44.56	-9.44	54	31.52	31.69	11.42	30.07	297	17	A	H
CH 48		5141.7	54.68	-19.32	74	41.52	32.05	11.18	30.07	294	340	P	V
5240MHz		5145.08	45.92	-8.08	54	32.75	32.05	11.19	30.07	294	340	A	V
	*	5240	123.61	-	-	110.72	31.64	11.3	30.05	294	340	P	V
	*	5240	114.82	-	-	101.93	31.64	11.3	30.05	294	340	A	V
		5365.36	53.82	-20.18	74	40.87	31.61	11.41	30.07	294	340	P	V
		5352.2	45.06	-8.94	54	32.19	31.54	11.4	30.07	294	340	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	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)
		10360	49.62	-18.58	68.2	62.33	39.41	16.63	68.75	-	-	P	H
		11356	50.13	-23.87	74	60.44	39.91	17.49	67.71	-	-	P	H
		11356	42.42	-11.58	54	52.73	39.91	17.49	67.71	-	-	A	H
		13380	50.12	-23.88	74	58.96	39.6	19.24	67.68	-	-	P	H
		13380	43.36	-10.64	54	52.2	39.6	19.24	67.68	-	-	A	H
		14491	52.59	-21.41	74	58.35	41.94	20.04	67.74	-	-	P	H
		14491	43.36	-10.64	54	49.12	41.94	20.04	67.74	-	-	A	H
		15540	47.7	-26.3	74	57.61	38.19	20.71	68.81	-	-	P	H
		17967	60.95	-13.05	74	59.44	47.96	22.97	69.42	-	-	P	H
		17967	50.44	-3.56	54	48.93	47.96	22.97	69.42	-	-	A	H
802.11ax													
HE20 Full													
CH 36		10360	52.05	-16.15	68.2	64.84	39.33	16.63	68.75	-	-	P	V
5180MHz		11565	50.51	-23.49	74	60.43	40.02	17.68	67.62	-	-	P	V
		11565	43.17	-10.83	54	53.09	40.02	17.68	67.62	-	-	A	V
		13314	49.81	-24.19	74	58.99	39.35	19.19	67.72	-	-	P	V
		13314	43.56	-10.44	54	52.74	39.35	19.19	67.72	-	-	A	V
		14491	52.21	-21.79	74	57.96	41.95	20.04	67.74	-	-	P	V
		14491	43.98	-10.02	54	49.73	41.95	20.04	67.74	-	-	A	V
		15540	47.95	-26.05	74	57.76	38.29	20.71	68.81	-	-	P	V
		17967	60.46	-13.54	74	58.62	48.29	22.97	69.42	-	-	P	V
		17967	50.37	-3.63	54	48.53	48.29	22.97	69.42	-	-	A	V

WIFI	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)
		10440	50.56	-17.64	68.2	62.96	39.6	16.7	68.7	-	-	P	H
		11367	50.19	-23.81	74	60.45	39.94	17.5	67.7	-	-	P	H
		11367	42.81	-11.19	54	53.07	39.94	17.5	67.7	-	-	A	H
		13292	51.15	-22.85	74	60.42	39.29	19.17	67.73	-	-	P	H
		13292	42.68	-11.32	54	51.95	39.29	19.17	67.73	-	-	A	H
		14491	52.31	-21.69	74	58.07	41.94	20.04	67.74	-	-	P	H
		14491	42.01	-11.99	54	47.77	41.94	20.04	67.74	-	-	A	H
		15660	49.45	-24.55	74	59.5	37.8	20.79	68.64	187	243	P	H
		15660	43.51	-10.49	54	53.56	37.8	20.79	68.64	187	243	A	H
		17989	60.51	-13.49	74	58.4	48.53	23	69.42	-	-	P	H
802.11ax		17989	50.19	-3.81	54	48.08	48.53	23	69.42	-	-	A	H
HE20 Full													
CH 44		10440	51.93	-16.27	68.2	64.36	39.57	16.7	68.7	-	-	P	V
5220MHz		10894	50.91	-23.09	74	61.97	40.02	17.08	68.16	-	-	P	V
		10894	42.25	-11.75	54	53.31	40.02	17.08	68.16	-	-	A	V
		13369	50.55	-23.45	74	59.45	39.56	19.23	67.69	-	-	P	V
		13369	43.19	-10.81	54	52.09	39.56	19.23	67.69	-	-	A	V
		14491	52.83	-21.17	74	58.58	41.95	20.04	67.74	-	-	P	V
		14491	43.3	-10.7	54	49.05	41.95	20.04	67.74	-	-	A	V
		15660	49.27	-24.73	74	59.25	37.87	20.79	68.64	296	207	P	V
		15660	42.47	-11.53	54	52.45	37.87	20.79	68.64	296	207	A	V
		17956	60.57	-13.43	74	58.99	48.04	22.96	69.42	-	-	P	V
		17956	49.93	-4.07	54	48.35	48.04	22.96	69.42	-	-	A	V

WIFI	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)
		10480	49.4	-18.8	68.2	61.65	39.7	16.73	68.68	-	-	P	H
		11466	50.7	-23.3	74	60.6	40.13	17.59	67.62	-	-	P	H
		11466	43.37	-10.63	54	53.27	40.13	17.59	67.62	-	-	A	H
		13347	51.43	-22.57	74	60.42	39.5	19.21	67.7	-	-	P	H
		13347	43.5	-10.5	54	52.49	39.5	19.21	67.7	-	-	A	H
		14491	52.23	-21.77	74	57.99	41.94	20.04	67.74	-	-	P	H
		14491	42.75	-11.25	54	48.51	41.94	20.04	67.74	-	-	A	H
		15720	47.76	-26.24	74	57.87	37.62	20.83	68.56	-	-	P	H
		17989	60.79	-13.21	74	58.68	48.53	23	69.42	-	-	P	H
		17989	50.64	-3.36	54	48.53	48.53	23	69.42	-	-	A	H
802.11ax													
HE20 Full													
CH 48		10480	51.55	-16.65	68.2	63.86	39.64	16.73	68.68	-	-	P	V
5240MHz		11488	50.45	-23.55	74	60.36	40.08	17.61	67.6	-	-	P	V
		11488	43.4	-10.6	54	53.31	40.08	17.61	67.6	-	-	A	V
		13292	51.14	-22.86	74	60.42	39.28	19.17	67.73	-	-	P	V
		13292	43.34	-10.66	54	52.62	39.28	19.17	67.73	-	-	A	V
		14491	52.59	-21.41	74	58.34	41.95	20.04	67.74	-	-	P	V
		14491	43.97	-10.03	54	49.72	41.95	20.04	67.74	-	-	A	V
		15720	47.91	-26.09	74	57.91	37.73	20.83	68.56	-	-	P	V
		18000	60.52	-13.48	74	57.89	49.04	23.01	69.42	-	-	P	V
		18000	50.54	-3.46	54	47.91	49.04	23.01	69.42	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-1 - 5150~5250MHz

WIFI 802.11ax HE20 Partial RU 52 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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 Partial RU 52_52_52_52 CH 36 5180MHz		5146.64	60.92	-13.08	74	46.15	33.22	11.9	30.35	307	120	P	H
		5150	53.21	-0.79	54	38.44	33.22	11.9	30.35	307	120	A	H
	*	5180	120.03	-	-	105.25	33.24	11.9	30.36	307	120	P	H
	*	5180	112.28	-	-	97.5	33.24	11.9	30.36	307	120	A	H
													H
													H
		5149.24	60.88	-13.12	74	46.11	33.22	11.9	30.35	242	110	P	V
		5150	53.35	-0.65	54	38.58	33.22	11.9	30.35	242	110	A	V
	*	5180	116.18	-	-	101.4	33.24	11.9	30.36	242	110	P	V
	*	5180	109.04	-	-	94.26	33.24	11.9	30.36	242	110	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

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

WIFI	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		5148.72	59.95	-14.05	74	46.84	31.99	11.19	30.07	264	45	P	H
		5149.5	52.88	-1.12	54	39.78	31.98	11.19	30.07	264	45	A	H
	*	5190	115.38	-	-	102.49	31.71	11.25	30.07	264	45	P	H
	*	5190	107.18	-	-	94.29	31.71	11.25	30.07	264	45	A	H
		5429.76	54.09	-19.91	74	40.8	31.91	11.46	30.08	264	45	P	H
		5382.72	45.17	-8.83	54	32.12	31.7	11.42	30.07	264	45	A	H
		5149.76	57.32	-16.68	74	44.16	32.04	11.19	30.07	272	48	P	V
		5149.5	48.56	-5.44	54	35.4	32.04	11.19	30.07	272	48	A	V
	*	5190	111.05	-	-	98.03	31.84	11.25	30.07	272	48	P	V
	*	5190	102.71	-	-	89.69	31.84	11.25	30.07	272	48	A	V
		5442.08	53.42	-20.58	74	40.1	31.93	11.47	30.08	272	48	P	V
		5384.68	44.95	-9.05	54	31.9	31.7	11.42	30.07	272	48	A	V
802.11ax HE40 Full CH 46 5230MHz		5147.68	60.31	-13.69	74	47.2	31.99	11.19	30.07	264	166	P	H
		5149.5	52.77	-1.23	54	39.67	31.98	11.19	30.07	264	166	A	H
	*	5230	118.13	-	-	105.41	31.49	11.29	30.06	264	166	P	H
	*	5230	110.72	-	-	98	31.49	11.29	30.06	264	166	A	H
		5421.36	55.41	-18.59	74	42.15	31.88	11.45	30.07	264	166	P	H
		5351.08	47.15	-6.85	54	34.27	31.55	11.4	30.07	264	166	A	H
		5108.94	62.02	-11.98	74	48.83	32.13	11.14	30.08	285	175	P	V
		5150	49.72	-4.28	54	36.57	32.03	11.19	30.07	285	175	A	V
	*	5230	117.51	-	-	104.61	31.67	11.29	30.06	285	175	P	V
	*	5230	108.72	-	-	95.82	31.67	11.29	30.06	285	175	A	V
		5374.6	54.49	-19.51	74	41.5	31.65	11.41	30.07	285	175	P	V
		5350	46.31	-7.69	54	33.45	31.53	11.4	30.07	285	175	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	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)
		10380	48.49	-19.71	68.2	61.13	39.46	16.64	68.74	-	-	P	H
		11257	50.76	-23.24	74	61.43	39.73	17.4	67.8	-	-	P	H
		11257	42.51	-11.49	54	53.18	39.73	17.4	67.8	-	-	A	H
		13380	50.16	-23.84	74	59	39.6	19.24	67.68	-	-	P	H
		13380	43.28	-10.72	54	52.12	39.6	19.24	67.68	-	-	A	H
		14491	52.57	-21.43	74	58.33	41.94	20.04	67.74	-	-	P	H
		14491	43.14	-10.86	54	48.9	41.94	20.04	67.74	-	-	A	H
		15570	47.9	-26.1	74	57.86	38.08	20.73	68.77	-	-	P	H
		17956	60.14	-13.86	74	58.92	47.68	22.96	69.42	-	-	P	H
		17956	50.3	-3.7	54	49.08	47.68	22.96	69.42	-	-	A	H
802.11ax													
HE40 Full													
CH 38		10380	50.49	-17.71	68.2	63.18	39.41	16.64	68.74	-	-	P	V
5190MHz		11488	50.4	-23.6	74	60.31	40.08	17.61	67.6	-	-	P	V
		11488	42.51	-11.49	54	52.42	40.08	17.61	67.6	-	-	A	V
		13325	50.51	-23.49	74	59.64	39.39	19.2	67.72	-	-	P	V
		13325	41.76	-12.24	54	50.89	39.39	19.2	67.72	-	-	A	V
		14491	52.34	-21.66	74	58.09	41.95	20.04	67.74	-	-	P	V
		14491	42.82	-11.18	54	48.57	41.95	20.04	67.74	-	-	A	V
		15570	47.11	-26.89	74	56.97	38.18	20.73	68.77	-	-	P	V
		17978	60.53	-13.47	74	58.42	48.54	22.99	69.42	-	-	P	V
		17978	50.19	-3.81	54	48.08	48.54	22.99	69.42	-	-	A	V

WIFI	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)
		10460	48.55	-19.65	68.2	60.88	39.65	16.71	68.69	-	-	P	H
		11477	50.26	-23.74	74	60.12	40.15	17.6	67.61	-	-	P	H
		11477	41.17	-12.83	54	51.03	40.15	17.6	67.61	-	-	A	H
		13314	50.61	-23.39	74	59.77	39.37	19.19	67.72	-	-	P	H
		13314	42.37	-11.63	54	51.53	39.37	19.19	67.72	-	-	A	H
		14491	52.13	-21.87	74	57.89	41.94	20.04	67.74	-	-	P	H
		14491	42.3	-11.7	54	48.06	41.94	20.04	67.74	-	-	A	H
		15690	47.57	-26.43	74	57.66	37.7	20.81	68.6	-	-	P	H
		17989	59.96	-14.04	74	57.85	48.53	23	69.42	-	-	P	H
		17989	50.37	-3.63	54	48.26	48.53	23	69.42	-	-	A	H
802.11ax													
HE40 Full													
CH 46		10460	51.04	-17.16	68.2	63.41	39.61	16.71	68.69	-	-	P	V
5230MHz		10982	50.1	-23.9	74	60.88	40.1	17.16	68.04	-	-	P	V
		10982	41.88	-12.12	54	52.66	40.1	17.16	68.04	-	-	A	V
		13336	50.06	-23.94	74	59.13	39.43	19.21	67.71	-	-	P	V
		13336	42.39	-11.61	54	51.46	39.43	19.21	67.71	-	-	A	V
		14491	51.47	-22.53	74	57.22	41.95	20.04	67.74	-	-	P	V
		14491	43.44	-10.56	54	49.19	41.95	20.04	67.74	-	-	A	V
		15690	47.62	-26.38	74	57.61	37.8	20.81	68.6	-	-	P	V
		18000	60.72	-13.28	74	58.09	49.04	23.01	69.42	-	-	P	V
		18000	50.11	-3.89	54	47.48	49.04	23.01	69.42	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-1 5150~5250MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	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		5148.46	61.8	-12.2	74	48.69	31.99	11.19	30.07	278	166	P	H
		5147.94	53.32	-0.68	54	40.21	31.99	11.19	30.07	278	166	A	H
	*	5210	112.19	-	-	99.4	31.59	11.27	30.07	278	166	P	H
	*	5210	102.81	-	-	90.02	31.59	11.27	30.07	278	166	A	H
		5409.6	55.5	-18.5	74	42.31	31.82	11.44	30.07	278	166	P	H
		5350.24	46.69	-7.31	54	33.82	31.54	11.4	30.07	278	166	A	H
		5140.14	57.45	-16.55	74	44.28	32.06	11.18	30.07	306	173	P	V
		5150	49.46	-4.54	54	36.31	32.03	11.19	30.07	306	173	A	V
	*	5210	109.73	-	-	96.78	31.75	11.27	30.07	306	173	P	V
	*	5210	101.09	-	-	88.14	31.75	11.27	30.07	306	173	A	V
		5428.64	54.11	-19.89	74	40.85	31.88	11.46	30.08	306	173	P	V
		5353.6	45.38	-8.62	54	32.5	31.55	11.4	30.07	306	173	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	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)
		10420	47.98	-20.22	68.2	60.45	39.55	16.69	68.71	-	-	P	H
		10861	50.5	-23.5	74	61.56	40.08	17.06	68.2	-	-	P	H
		10861	41.38	-12.62	54	52.44	40.08	17.06	68.2	-	-	A	H
		13270	50.09	-23.91	74	59.5	39.19	19.15	67.75	-	-	P	H
		13270	42.67	-11.33	54	52.08	39.19	19.15	67.75	-	-	A	H
		14491	51.79	-22.21	74	57.55	41.94	20.04	67.74	-	-	P	H
		14491	43.26	-10.74	54	49.02	41.94	20.04	67.74	-	-	A	H
		15630	46.57	-27.43	74	56.59	37.9	20.77	68.69	-	-	P	H
		17989	60.77	-13.23	74	58.66	48.53	23	69.42	-	-	P	H
		17989	50.18	-3.82	54	48.07	48.53	23	69.42	-	-	A	H
802.11ax													
HE80 Full													
CH 42		10420	48.83	-19.37	68.2	61.32	39.53	16.69	68.71	-	-	P	V
5210MHz		11433	50.36	-23.64	74	60.44	40.01	17.56	67.65	-	-	P	V
		11433	43	-11	54	53.08	40.01	17.56	67.65	-	-	A	V
		13314	50.61	-23.39	74	59.79	39.35	19.19	67.72	-	-	P	V
		13314	42.93	-11.07	54	52.11	39.35	19.19	67.72	-	-	A	V
		14491	51.9	-22.1	74	57.65	41.95	20.04	67.74	-	-	P	V
		14491	43.27	-10.73	54	49.02	41.95	20.04	67.74	-	-	A	V
		15630	47.29	-26.71	74	57.24	37.97	20.77	68.69	-	-	P	V
		17989	60.58	-13.42	74	58.21	48.79	23	69.42	-	-	P	V
		17989	49.94	-4.06	54	47.57	48.79	23	69.42	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-2A - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	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		5143.48	54.24	-19.76	74	41.12	32	11.19	30.07	279	167	P	H
		5149.26	45.4	-8.6	54	32.3	31.98	11.19	30.07	279	167	A	H
	*	5260	121.44	-	-	108.77	31.4	11.33	30.06	279	167	P	H
	*	5260	113.94	-	-	101.27	31.4	11.33	30.06	279	167	A	H
		5449.68	54.68	-19.32	74	41.29	32	11.47	30.08	279	167	P	H
		5358.48	47.44	-6.56	54	34.52	31.58	11.41	30.07	279	167	A	H
		5149.94	65.47	-8.53	74	52.31	32.04	11.19	30.07	309	173	P	V
		5149.6	47.02	-6.98	54	33.86	32.04	11.19	30.07	309	173	A	V
	*	5260	119.91	-	-	107.08	31.56	11.33	30.06	309	173	P	V
	*	5260	112.06	-	-	99.23	31.56	11.33	30.06	309	173	A	V
		5350.08	54.12	-19.88	74	41.26	31.53	11.4	30.07	309	173	P	V
		5389.68	48.75	-5.25	54	35.68	31.72	11.42	30.07	309	173	A	V
802.11a CH 60 5300MHz		5146.88	54.26	-19.74	74	41.15	31.99	11.19	30.07	259	167	P	H
		5148.24	45.17	-8.83	54	32.06	31.99	11.19	30.07	259	167	A	H
	*	5300	121.99	-	-	109.3	31.4	11.37	30.08	259	167	P	H
	*	5300	114.23	-	-	101.54	31.4	11.37	30.08	259	167	A	H
		5356.56	58.35	-15.65	74	45.45	31.57	11.4	30.07	259	167	P	H
		5356.32	51.12	-2.88	54	38.22	31.57	11.4	30.07	259	167	A	H
		5111.18	54.21	-19.79	74	41.02	32.13	11.14	30.08	291	171	P	V
		5149.94	45.09	-8.91	54	31.93	32.04	11.19	30.07	291	171	A	V
	*	5300	119	-	-	106.32	31.39	11.37	30.08	291	171	P	V
	*	5300	111.5	-	-	98.82	31.39	11.37	30.08	291	171	A	V
		5350.32	57.88	-16.12	74	45.01	31.54	11.4	30.07	291	171	P	V
		5350.08	50.25	-3.75	54	37.39	31.53	11.4	30.07	291	171	A	V

802.11a CH 64 5320MHz	*	5320	119.66	-	-	106.9	31.46	11.38	30.08	253	164	P	H
	*	5320	111.87	-	-	99.11	31.46	11.38	30.08	253	164	A	H
		5360.16	60.52	-13.48	74	47.59	31.59	11.41	30.07	253	164	P	H
		5356.8	53.49	-0.51	54	40.58	31.58	11.4	30.07	253	164	A	H
	*	5320	116.55	-	-	103.8	31.45	11.38	30.08	295	171	P	V
	*	5320	109.27	-	-	96.52	31.45	11.38	30.08	295	171	A	V
		5450.72	65.46	-8.54	74	52.1	31.96	11.48	30.08	295	171	P	V
		5350.08	51.55	-2.45	54	38.69	31.53	11.4	30.07	295	171	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	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		10520	50.07	-18.13	68.2	62.2	39.74	16.77	68.64	-	-	P	H
		11334	50.56	-23.44	74	60.97	39.85	17.47	67.73	-	-	P	H
		11334	42.81	-11.19	54	53.22	39.85	17.47	67.73	-	-	A	H
		13325	50.01	-23.99	74	59.11	39.42	19.2	67.72	-	-	P	H
		13325	43.37	-10.63	54	52.47	39.42	19.2	67.72	-	-	A	H
		14491	51.62	-22.38	74	57.38	41.94	20.04	67.74	-	-	P	H
		14491	42.74	-11.26	54	48.5	41.94	20.04	67.74	-	-	A	H
		15780	50.12	-23.88	74	60.23	37.48	20.88	68.47	227	318	P	H
		15780	41.83	-12.17	54	51.94	37.48	20.88	68.47	227	318	A	H
		18000	60.05	-13.95	74	57.64	48.82	23.01	69.42	-	-	P	H
		18000	50.38	-3.62	54	47.97	48.82	23.01	69.42	-	-	A	H
		10520	52.49	-15.71	68.2	64.69	39.67	16.77	68.64	-	-	P	V
		10927	49.93	-24.07	74	60.85	40.08	17.11	68.11	-	-	P	V
		10927	41.52	-12.48	54	52.44	40.08	17.11	68.11	-	-	A	V
		13314	50.4	-23.6	74	59.58	39.35	19.19	67.72	-	-	P	V
		13314	42.46	-11.54	54	51.64	39.35	19.19	67.72	-	-	A	V
		14491	52.46	-21.54	74	58.21	41.95	20.04	67.74	-	-	P	V
		14491	42.08	-11.92	54	47.83	41.95	20.04	67.74	-	-	A	V
		15780	49.38	-24.62	74	59.35	37.62	20.88	68.47	299	164	P	V
		15780	41.02	-12.98	54	50.99	37.62	20.88	68.47	299	164	A	V
		18000	60.03	-13.97	74	57.4	49.04	23.01	69.42	-	-	P	V
		18000	50.24	-3.76	54	47.61	49.04	23.01	69.42	-	-	A	V

WIFI	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)
		10600	49.8	-24.2	74	61.83	39.68	16.83	68.54	187	240	P	H
		10600	40.6	-13.4	54	52.63	39.68	16.83	68.54	187	240	A	H
		11334	50.86	-23.14	74	61.27	39.85	17.47	67.73	-	-	P	H
		11334	42.63	-11.37	54	53.04	39.85	17.47	67.73	-	-	A	H
		13336	49.64	-24.36	74	58.68	39.46	19.21	67.71	-	-	P	H
		13336	42.03	-11.97	54	51.07	39.46	19.21	67.71	-	-	A	H
		14491	52.13	-21.87	74	57.89	41.94	20.04	67.74	-	-	P	H
		14491	42.76	-11.24	54	48.52	41.94	20.04	67.74	-	-	A	H
		15900	47.53	-26.47	74	57.5	37.37	20.96	68.3	-	-	P	H
		17945	60.64	-13.36	74	59.69	47.42	22.95	69.42	-	-	P	H
		17945	50.23	-3.77	54	49.28	47.42	22.95	69.42	-	-	A	H
i802.11a CH 60 5300MHz													
		10600	55.78	-18.22	74	67.62	39.87	16.83	68.54	291	309	P	V
		10600	46.31	-7.69	54	58.15	39.87	16.83	68.54	291	309	A	V
		11466	50.47	-23.53	74	60.43	40.07	17.59	67.62	-	-	P	V
		11466	42.61	-11.39	54	52.57	40.07	17.59	67.62	-	-	A	V
		13314	50.52	-23.48	74	59.7	39.35	19.19	67.72	-	-	P	V
		13314	43.89	-10.11	54	53.07	39.35	19.19	67.72	-	-	A	V
		14491	51.75	-22.25	74	57.5	41.95	20.04	67.74	-	-	P	V
		14491	42.34	-11.66	54	48.09	41.95	20.04	67.74	-	-	A	V
		15900	47.25	-26.75	74	57.15	37.44	20.96	68.3	-	-	P	V
		17989	60.48	-13.52	74	58.11	48.79	23	69.42	-	-	P	V
		17989	50.32	-3.68	54	47.95	48.79	23	69.42	-	-	A	V

WIFI	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)
		10640	52.71	-21.29	74	64.52	39.81	16.87	68.49	389	358	P	H
		10640	42.39	-11.61	54	54.2	39.81	16.87	68.49	389	358	A	H
		11433	49.9	-24.1	74	59.91	40.08	17.56	67.65	-	-	P	H
		11433	43.03	-10.97	54	53.04	40.08	17.56	67.65	-	-	A	H
		13292	50.37	-23.63	74	59.64	39.29	19.17	67.73	-	-	P	H
		13292	42.19	-11.81	54	51.46	39.29	19.17	67.73	-	-	A	H
		14491	52.57	-21.43	74	58.33	41.94	20.04	67.74	-	-	P	H
		14491	42.15	-11.85	54	47.91	41.94	20.04	67.74	-	-	A	H
		15960	46.76	-27.24	74	56.65	37.33	21	68.22	-	-	P	H
		17989	60.21	-13.79	74	58.1	48.53	23	69.42	-	-	P	H
		17989	50.11	-3.89	54	48	48.53	23	69.42	-	-	A	H
802.11a CH 64 5320MHz													
		10640	56.66	-17.34	74	68.41	39.87	16.87	68.49	240	277	P	V
		10640	47.51	-6.49	54	59.26	39.87	16.87	68.49	240	277	A	V
		11323	50.25	-23.75	74	60.77	39.76	17.46	67.74	-	-	P	V
		11323	42.71	-11.29	54	53.23	39.76	17.46	67.74	-	-	A	V
		13369	49.43	-24.57	74	58.33	39.56	19.23	67.69	-	-	P	V
		13369	43.19	-10.81	54	52.09	39.56	19.23	67.69	-	-	A	V
		14491	51.95	-22.05	74	57.7	41.95	20.04	67.74	-	-	P	V
		14491	41.37	-12.63	54	47.12	41.95	20.04	67.74	-	-	A	V
		15960	47.35	-26.65	74	57.08	37.49	21	68.22	-	-	P	V
		17967	60.16	-13.84	74	58.32	48.29	22.97	69.42	-	-	P	V
		17967	50.43	-3.57	54	48.59	48.29	22.97	69.42	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-2A 5250~5350MHz

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

WIFI	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)
		5092.48	54.24	-19.76	74	41.13	32.09	11.1	30.08	283	167	P	H
		5149.6	44.68	-9.32	54	31.58	31.98	11.19	30.07	283	167	A	H
	*	5260	121.58	-	-	108.91	31.4	11.33	30.06	283	167	P	H
	*	5260	113.06	-	-	100.39	31.4	11.33	30.06	283	167	A	H
802.11ax		5362.08	54.85	-19.15	74	41.91	31.6	11.41	30.07	283	167	P	H
HE20 Full		5364.72	46.12	-7.88	54	33.17	31.61	11.41	30.07	283	167	A	H
CH 52		5122.4	54.46	-19.54	74	41.28	32.1	11.16	30.08	287	172	P	V
5260MHz		5149.6	44.49	-9.51	54	31.33	32.04	11.19	30.07	287	172	A	V
	*	5260	118.63	-	-	105.8	31.56	11.33	30.06	287	172	P	V
	*	5260	110.72	-	-	97.89	31.56	11.33	30.06	287	172	A	V
		5381.28	57.25	-16.75	74	44.22	31.68	11.42	30.07	287	172	P	V
		5454.96	45.95	-8.05	54	32.59	31.96	11.48	30.08	287	172	A	V
		5137.02	54.14	-19.86	74	41.02	32.01	11.18	30.07	252	14	P	H
		5149.94	45.31	-8.69	54	32.21	31.98	11.19	30.07	252	14	A	H
	*	5300	125.15	-	-	112.46	31.4	11.37	30.08	252	14	P	H
	*	5300	115.1	-	-	102.41	31.4	11.37	30.08	252	14	P	H
802.11ax		5356.32	53.89	-20.11	74	40.99	31.57	11.4	30.07	252	14	P	H
HE20 Full		5355.36	45.98	-8.02	54	33.08	31.57	11.4	30.07	252	14	A	H
CH 60		5097.92	54.02	-19.98	74	40.84	32.14	11.12	30.08	301	344	P	V
5300MHz		5149.94	45.26	-8.74	54	32.1	32.04	11.19	30.07	301	344	A	V
	*	5300	124.14	-	-	111.46	31.39	11.37	30.08	301	344	P	V
	*	5300	114.65	-	-	101.97	31.39	11.37	30.08	301	344	A	V
		5350.8	55.62	-18.38	74	42.75	31.54	11.4	30.07	301	344	P	V
		5350.32	47.65	-6.35	54	34.78	31.54	11.4	30.07	301	344	A	V

	*	5320	118.31	-	-	105.55	31.46	11.38	30.08	274	19	P	H
		5357.6	55.92	-18.08	74	43.01	31.58	11.4	30.07	274	19	P	H
		5359.36	47.79	-6.21	54	34.86	31.59	11.41	30.07	274	19	A	H
802.11ax													
HE20 Full													
CH 64	*	5320	121.73	-	-	108.98	31.45	11.38	30.08	297	347	P	V
5320MHz	*	5320	112.91	-	-	100.16	31.45	11.38	30.08	297	347	A	V
		5350.08	61.74	-12.26	74	48.88	31.53	11.4	30.07	297	347	P	V
		5350.24	53.59	-0.41	54	40.72	31.54	11.4	30.07	297	347	A	V

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

UNII-2A 5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	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)
		10520	50.35	-17.85	68.2	62.48	39.74	16.77	68.64	-	-	P	H
		11422	50.81	-23.19	74	60.87	40.05	17.55	67.66	-	-	P	H
		11422	42.24	-11.76	54	52.3	40.05	17.55	67.66	-	-	A	H
		13380	50.47	-23.53	74	59.31	39.6	19.24	67.68	-	-	P	H
		13380	42.89	-11.11	54	51.73	39.6	19.24	67.68	-	-	A	H
		14491	52.54	-21.46	74	58.3	41.94	20.04	67.74	-	-	P	H
		14491	43.14	-10.86	54	48.9	41.94	20.04	67.74	-	-	A	H
		15780	49.09	-24.91	74	59.2	37.48	20.88	68.47	299	173	P	H
		15780	40.92	-13.08	54	51.03	37.48	20.88	68.47	299	173	A	H
		17978	60.59	-13.41	74	58.77	48.25	22.99	69.42	-	-	P	H
802.11ax		17978	50.87	-3.13	54	49.05	48.25	22.99	69.42	-	-	A	H
HE20 Full													
CH 52		10520	52.99	-15.21	68.2	65.19	39.67	16.77	68.64	-	-	P	V
5260MHz		10916	50.59	-23.41	74	61.56	40.06	17.1	68.13	-	-	P	V
		10916	41.76	-12.24	54	52.73	40.06	17.1	68.13	-	-	A	V
		13358	50.92	-23.08	74	59.89	39.51	19.22	67.7	-	-	P	V
		13358	43.12	-10.88	54	52.09	39.51	19.22	67.7	-	-	A	V
		14491	52.26	-21.74	74	58.01	41.95	20.04	67.74	-	-	P	V
		14491	43.01	-10.99	54	48.76	41.95	20.04	67.74	-	-	A	V
		15780	49.51	-24.49	74	59.48	37.62	20.88	68.47	320	189	P	V
		15780	41.56	-12.44	54	51.53	37.62	20.88	68.47	320	189	A	V
		17956	60.7	-13.3	74	59.12	48.04	22.96	69.42	-	-	P	V
		17956	50.18	-3.82	54	48.6	48.04	22.96	69.42	-	-	A	V

WIFI	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)
		10600	54.25	-19.75	74	66.15	39.81	16.83	68.54	387	358	P	H
		10600	43.08	-10.92	54	54.98	39.81	16.83	68.54	387	358	A	H
		11510	50.91	-23.09	74	60.72	40.15	17.63	67.59	-	-	P	H
		11510	42.57	-11.43	54	52.38	40.15	17.63	67.59	-	-	A	H
		13369	51.3	-22.7	74	60.2	39.56	19.23	67.69	-	-	P	H
		13369	43.34	-10.66	54	52.24	39.56	19.23	67.69	-	-	A	H
		14491	52.75	-21.25	74	58.51	41.94	20.04	67.74	-	-	P	H
		14491	43.31	-10.69	54	49.07	41.94	20.04	67.74	-	-	A	H
		15900	47.2	-26.8	74	57.17	37.37	20.96	68.3	-	-	P	H
		17967	60.42	-13.58	74	58.91	47.96	22.97	69.42	-	-	P	H
802.11ax		17967	50.59	-3.41	54	49.08	47.96	22.97	69.42	-	-	A	H
HE20 Full													
CH 60		10600	59.78	-14.22	74	71.62	39.87	16.83	68.54	244	279	P	V
5300MHz		10600	47.73	-6.27	54	59.57	39.87	16.83	68.54	244	279	A	V
		11422	50.73	-23.27	74	60.86	39.98	17.55	67.66	-	-	P	V
		11422	42.92	-11.08	54	53.05	39.98	17.55	67.66	-	-	A	V
		13358	50.46	-23.54	74	59.43	39.51	19.22	67.7	-	-	P	V
		13358	42.7	-11.3	54	51.67	39.51	19.22	67.7	-	-	A	V
		14491	52.91	-21.09	74	58.66	41.95	20.04	67.74	-	-	P	V
		14491	43.15	-10.85	54	48.9	41.95	20.04	67.74	-	-	A	V
		15900	47.69	-26.31	74	57.59	37.44	20.96	68.3	-	-	P	V
		17956	60.85	-13.15	74	59.27	48.04	22.96	69.42	-	-	P	V
		17956	50.69	-3.31	54	49.11	48.04	22.96	69.42	-	-	A	V

WIFI	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)
		10640	50.36	-23.64	74	62.3	39.68	16.87	68.49	253	234	P	H
		10640	41.18	-12.82	54	53.12	39.68	16.87	68.49	253	234	A	H
		10971	50.78	-23.22	74	61.53	40.16	17.15	68.06	-	-	P	H
		10971	41.93	-12.07	54	52.68	40.16	17.15	68.06	-	-	A	H
		13358	50.27	-23.73	74	59.22	39.53	19.22	67.7	-	-	P	H
		13358	42.79	-11.21	54	51.74	39.53	19.22	67.7	-	-	A	H
		14491	52.07	-21.93	74	57.83	41.94	20.04	67.74	-	-	P	H
		14491	42.74	-11.26	54	48.5	41.94	20.04	67.74	-	-	A	H
		15960	46.93	-27.07	74	56.82	37.33	21	68.22	-	-	P	H
		18000	60.33	-13.67	74	57.92	48.82	23.01	69.42	-	-	P	H
802.11ax		18000	50.53	-3.47	54	48.12	48.82	23.01	69.42	-	-	A	H
HE20 Full													
CH 64		10640	57.8	-16.2	74	69.55	39.87	16.87	68.49	286	282	P	V
5320MHz		10640	45.36	-8.64	54	57.11	39.87	16.87	68.49	286	282	A	V
		11356	50.36	-23.64	74	60.74	39.84	17.49	67.71	-	-	P	V
		11356	42.57	-11.43	54	52.95	39.84	17.49	67.71	-	-	A	V
		13325	50.97	-23.03	74	60.1	39.39	19.2	67.72	-	-	P	V
		13325	43.64	-10.36	54	52.77	39.39	19.2	67.72	-	-	A	V
		14491	52.45	-21.55	74	58.2	41.95	20.04	67.74	-	-	P	V
		14491	43.36	-10.64	54	49.11	41.95	20.04	67.74	-	-	A	V
		15960	47.2	-26.8	74	56.93	37.49	21	68.22	-	-	P	V
		18000	60.19	-13.81	74	57.56	49.04	23.01	69.42	-	-	P	V
		18000	50.19	-3.81	54	47.56	49.04	23.01	69.42	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-2a - 5250~5350MHz

WIFI 802.11ax HE20 Partial RU 52 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial RU 52_52_52_52 CH 64 5320MHz	*	5320	116.66	-	-	101.95	33.03	12.03	30.35	100	252	P	H
	*	5320	107.29	-	-	92.58	33.03	12.03	30.35	100	252	A	H
		5350.24	56.72	-17.28	74	41.98	33.03	12.07	30.36	100	252	P	H
		5350.08	47.65	-6.35	54	32.91	33.03	12.07	30.36	100	252	A	H
													H
													H
	*	5320	113.51	-	-	98.8	33.03	12.03	30.35	248	121	P	V
	*	5320	104.96	-	-	90.25	33.03	12.03	30.35	248	121	A	V
		5350.08	54.67	-19.33	74	39.93	33.03	12.07	30.36	248	121	P	V
		5350.24	46.66	-7.34	54	31.92	33.03	12.07	30.36	248	121	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A 5250~5350MHz

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

WIFI	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 54 5270MHz		5130.56	54.81	-19.19	74	41.68	32.03	11.17	30.07	283	167	P	H
		5147.9	45.54	-8.46	54	32.43	31.99	11.19	30.07	283	167	A	H
	*	5270	119.41	-	-	106.73	31.4	11.34	30.06	283	167	P	H
	*	5270	110.88	-	-	98.2	31.4	11.34	30.06	283	167	A	H
		5351.52	60.61	-13.39	74	47.73	31.55	11.4	30.07	283	167	P	H
		5350.08	52.96	-1.04	54	40.09	31.54	11.4	30.07	283	167	A	H
		5095.54	53.72	-20.28	74	40.55	32.14	11.11	30.08	296	173	P	V
		5149.94	45.22	-8.78	54	32.06	32.04	11.19	30.07	296	173	A	V
	*	5270	117.42	-	-	104.62	31.52	11.34	30.06	296	173	P	V
	*	5270	108.88	-	-	96.08	31.52	11.34	30.06	296	173	A	V
		5352.96	56.79	-17.21	74	43.91	31.55	11.4	30.07	296	173	P	V
		5353.68	49.97	-4.03	54	37.09	31.55	11.4	30.07	296	173	A	V
802.11ax HE40 Full CH 62 5310MHz		5129.54	54.53	-19.47	74	41.4	32.03	11.17	30.07	288	166	P	H
		5136	44.15	-9.85	54	31.02	32.02	11.18	30.07	288	166	A	H
	*	5310	114.24	-	-	101.51	31.43	11.38	30.08	288	166	P	H
	*	5310	105.35	-	-	92.62	31.43	11.38	30.08	288	166	A	H
		5351.04	61.56	-12.44	74	48.68	31.55	11.4	30.07	288	166	P	H
		5351.04	53.84	-0.16	54	40.96	31.55	11.4	30.07	288	166	A	H
		5063.92	53.11	-20.89	74	40.18	32.03	10.98	30.08	291	171	P	V
		5129.54	44.05	-9.95	54	30.87	32.08	11.17	30.07	291	171	A	V
	*	5310	111.83	-	-	99.11	31.42	11.38	30.08	291	171	P	V
	*	5310	102.7	-	-	89.98	31.42	11.38	30.08	291	171	A	V
		5354.4	60.29	-13.71	74	47.4	31.56	11.4	30.07	291	171	P	V
		5353.2	50.6	-3.4	54	37.72	31.55	11.4	30.07	291	171	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A 5250~5350MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	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)
		10540	48.93	-19.27	68.2	61.03	39.73	16.79	68.62	-	-	P	H
		11290	51.23	-22.77	74	61.82	39.75	17.43	67.77	-	-	P	H
		11290	42.46	-11.54	54	53.05	39.75	17.43	67.77	-	-	A	H
		13325	50.67	-23.33	74	59.77	39.42	19.2	67.72	-	-	P	H
		13325	42.98	-11.02	54	52.08	39.42	19.2	67.72	-	-	A	H
		14491	53.52	-20.48	74	59.28	41.94	20.04	67.74	-	-	P	H
		14491	42.96	-11.04	54	48.72	41.94	20.04	67.74	-	-	A	H
		15810	47.55	-26.45	74	57.66	37.42	20.9	68.43	-	-	P	H
		17956	60.65	-13.35	74	59.43	47.68	22.96	69.42	-	-	P	H
		17956	50.08	-3.92	54	48.86	47.68	22.96	69.42	-	-	A	H
802.11ax													
HE40 Full													
CH 54		10540	50.61	-17.59	68.2	62.77	39.67	16.79	68.62	-	-	P	V
5270MHz		11301	51.12	-22.88	74	61.74	39.7	17.44	67.76	-	-	P	V
		11301	42.69	-11.31	54	53.31	39.7	17.44	67.76	-	-	A	V
		13325	50.73	-23.27	74	59.86	39.39	19.2	67.72	-	-	P	V
		13325	42.64	-11.36	54	51.77	39.39	19.2	67.72	-	-	A	V
		14491	52.68	-21.32	74	58.43	41.95	20.04	67.74	-	-	P	V
		14491	43.26	-10.74	54	49.01	41.95	20.04	67.74	-	-	A	V
		15810	47.98	-26.02	74	57.94	37.57	20.9	68.43	-	-	P	V
		17989	60.23	-13.77	74	57.86	48.79	23	69.42	-	-	P	V
		17989	50.45	-3.55	54	48.08	48.79	23	69.42	-	-	A	V

WIFI	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)
		10620	49.87	-24.13	74	61.85	39.68	16.85	68.51	208	246	P	H
		10620	41.09	-12.91	54	53.07	39.68	16.85	68.51	208	246	A	H
		11510	51.42	-22.58	74	61.23	40.15	17.63	67.59	-	-	P	H
		11510	42.95	-11.05	54	52.76	40.15	17.63	67.59	-	-	A	H
		13292	50.33	-23.67	74	59.6	39.29	19.17	67.73	-	-	P	H
		13292	43.1	-10.9	54	52.37	39.29	19.17	67.73	-	-	A	H
		14491	52.54	-21.46	74	58.3	41.94	20.04	67.74	-	-	P	H
		14491	43.2	-10.8	54	48.96	41.94	20.04	67.74	-	-	A	H
		15930	46.68	-27.32	74	56.62	37.34	20.98	68.26	-	-	P	H
		17978	60.62	-13.38	74	58.8	48.25	22.99	69.42	-	-	P	H
802.11ax		17978	50.89	-3.11	54	49.07	48.25	22.99	69.42	-	-	A	H
HE40 Full													
CH 62		10620	50.94	-23.06	74	62.97	39.63	16.85	68.51	307	133	P	V
5310MHz		10620	41.2	-12.8	54	53.23	39.63	16.85	68.51	307	133	A	V
		11257	51.1	-22.9	74	61.87	39.63	17.4	67.8	-	-	P	V
		11257	42.28	-11.72	54	53.05	39.63	17.4	67.8	-	-	A	V
		13314	51.78	-22.22	74	60.96	39.35	19.19	67.72	-	-	P	V
		13314	43.64	-10.36	54	52.82	39.35	19.19	67.72	-	-	A	V
		14491	52.8	-21.2	74	58.55	41.95	20.04	67.74	-	-	P	V
		14491	43.47	-10.53	54	49.22	41.95	20.04	67.74	-	-	A	V
		15930	46.87	-27.13	74	56.69	37.46	20.98	68.26	-	-	P	V
		17978	60.31	-13.69	74	58.2	48.54	22.99	69.42	-	-	P	V
		17978	50.68	-3.32	54	48.57	48.54	22.99	69.42	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-2A 5250~5350MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	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		5119	53.97	-20.03	74	40.84	32.06	11.15	30.08	292	166	P	H
		5147.22	44.85	-9.15	54	31.74	31.99	11.19	30.07	292	166	A	H
	*	5290	109.37	-	-	96.68	31.4	11.36	30.07	292	166	P	H
	*	5290	101.86	-	-	89.17	31.4	11.36	30.07	292	166	A	H
		5351.76	61.57	-12.43	74	48.69	31.55	11.4	30.07	292	166	P	H
		5350.56	53.7	-0.3	54	40.82	31.55	11.4	30.07	292	166	A	H
		5093.5	53.82	-20.18	74	40.67	32.13	11.1	30.08	284	170	P	V
		5149.94	44.16	-9.84	54	31	32.04	11.19	30.07	284	170	A	V
	*	5290	108.12	-	-	95.4	31.43	11.36	30.07	284	170	P	V
	*	5290	99.65	-	-	86.93	31.43	11.36	30.07	284	170	A	V
		5352.96	58.44	-15.56	74	45.56	31.55	11.4	30.07	284	170	P	V
		5353.92	51.06	-2.94	54	38.18	31.55	11.4	30.07	284	170	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A 5250~5350MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	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)
		10580	48.04	-20.16	68.2	60.11	39.69	16.81	68.57	-	-	P	H
		10872	50.65	-23.35	74	61.67	40.11	17.06	68.19	-	-	P	H
		10872	42.03	-11.97	54	53.05	40.11	17.06	68.19	-	-	A	H
		13358	50.92	-23.08	74	59.87	39.53	19.22	67.7	-	-	P	H
		13358	41.15	-12.85	54	50.1	39.53	19.22	67.7	-	-	A	H
		14491	52.18	-21.82	74	57.94	41.94	20.04	67.74	-	-	P	H
		14491	42.83	-11.17	54	48.59	41.94	20.04	67.74	-	-	A	H
		15870	47.09	-26.91	74	57.11	37.38	20.94	68.34	-	-	P	H
		17989	60.02	-13.98	74	57.91	48.53	23	69.42	-	-	P	H
		17989	50.87	-3.13	54	48.76	48.53	23	69.42	-	-	A	H
802.11ax													
HE80 Full													
CH 58		10580	48.62	-19.58	68.2	60.71	39.67	16.81	68.57	-	-	P	V
5290MHz		11675	50.47	-23.53	74	60.74	39.61	17.78	67.66	-	-	P	V
		11675	43.23	-10.77	54	53.5	39.61	17.78	67.66	-	-	A	V
		13369	49.78	-24.22	74	58.68	39.56	19.23	67.69	-	-	P	V
		13369	43.52	-10.48	54	52.42	39.56	19.23	67.69	-	-	A	V
		14491	53.05	-20.95	74	58.8	41.95	20.04	67.74	-	-	P	V
		14491	42.91	-11.09	54	48.66	41.95	20.04	67.74	-	-	A	V
		15870	46.68	-27.32	74	56.6	37.48	20.94	68.34	-	-	P	V
		17989	60.94	-13.06	74	58.57	48.79	23	69.42	-	-	P	V
		17989	50.13	-3.87	54	47.76	48.79	23	69.42	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Emission above 18GHz

WIFI 802.11ax HE40 Full (SHF @ 1m)

WIFI	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)
802.11ax HE40 Full CH62 5310MHz SHF		36480	46.31	-27.69	74	36.64	42.54	21.91	54.78	-	-	P	H
		39780	53	-21	74	37.2	44.81	24.44	53.45	-	-	P	H
		39780	45.48	-8.52	54	29.68	44.81	24.44	53.45	-	-	A	H
		36480	46.69	-27.31	74	36.97	42.59	21.91	54.78	-	-	P	V
		39516	52.08	-21.92	74	37.32	44.54	24.26	54.04	-	-	P	V
		39516	44.94	-9.06	54	30.18	44.54	24.26	54.04	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.

Emission below 1GHz

WIFI 802.11ax HE40 Full (LF @ 3m)

WIFI	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)
802.11ax HE40 Full CH62 5310MHz LF		62.98	31.45	-8.55	40	50.69	11.8	1.39	32.43	-	-	P	H
		147.37	28.04	-15.46	43.5	41.18	17.26	2.01	32.41	-	-	P	H
		324.88	32.27	-13.73	46	42.25	19.5	2.97	32.45	-	-	P	H
		423.82	32.61	-13.39	46	38.96	22.58	3.58	32.51	-	-	P	H
		749.74	35.05	-10.95	46	34.78	27.99	4.66	32.38	-	-	P	H
		874.87	38.4	-7.6	46	36.14	29.1	4.94	31.78	120	202	Q	H
		874.87	42.16	-3.84	46	39.9	29.1	4.94	31.78	120	202	P	H
		39.7	33.08	-6.92	40	44.56	19.88	1.08	32.44	-	-	P	V
		61.04	33.16	-6.84	40	52.53	11.7	1.36	32.43	-	-	P	V
		105.66	30.76	-12.74	43.5	44.87	16.57	1.73	32.41	-	-	P	V
		424.79	36.79	-9.21	46	43.12	22.6	3.58	32.51	-	-	P	V
		753.62	35.14	-10.86	46	34.85	28	4.66	32.37	-	-	P	V
		874.87	38.2	-7.8	46	35.94	29.1	4.94	31.78	-	-	P	V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	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)
802.11a CH 36 5180MHz		5150	58.84	-15.16	74	45.00	31.86	11.19	29.21	141	240	P	H
		5150	48.84	-5.16	54	35.00	31.86	11.19	29.21	214	78	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 @ 5150MHz:

1. Level(dBμV/m)

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

= 31.86(dB/m) + 11.19(dB) + 45.00(dBμV) – 29.21 (dB)

= 58.84 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 58.84(dBμV/m) – 74(dBμV/m)

= -15.16(dB)

For Average Limit @ 5150MHz:

1. Level(dBμV/m)

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

= 31.86(dB/m) + 11.19(dB) + 35.00(dBμV) – 29.21 (dB)

= 48.84 (dBμV/m)

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

= 48.84 (dBμV/m) – 54(dBμV/m)

= -5.16 (dB)

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

<Radio 2>

UNII-1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.94	57.29	-16.71	74	44.18	31.99	11.19	30.07	280	27	P	H
		5144.82	48.46	-5.54	54	35.35	31.99	11.19	30.07	280	27	A	H
	*	5180	119.56	-	-	106.63	31.77	11.23	30.07	280	27	P	H
	*	5180	111.04	-	-	98.11	31.77	11.23	30.07	280	27	A	H
		5148.72	59.51	-14.49	74	46.35	32.04	11.19	30.07	287	339	P	V
		5149.5	53.37	-0.63	54	40.21	32.04	11.19	30.07	287	339	A	V
	*	5180	120.42	-	-	107.37	31.89	11.23	30.07	287	339	P	V
	*	5180	111.76	-	-	98.71	31.89	11.23	30.07	287	339	A	V
802.11a CH 44 5220MHz		5120.12	54.41	-19.59	74	41.28	32.05	11.16	30.08	262	45	P	H
		5129.22	46.61	-7.39	54	33.48	32.03	11.17	30.07	262	45	A	H
	*	5220	121.73	-	-	108.97	31.54	11.28	30.06	262	45	P	H
	*	5220	115.06	-	-	102.3	31.54	11.28	30.06	262	45	A	H
		5408.48	55.42	-18.58	74	42.23	31.82	11.44	30.07	262	45	P	H
		5412.96	47.68	-6.32	54	34.47	31.84	11.44	30.07	262	45	A	H
		5140.92	53.98	-20.02	74	40.81	32.06	11.18	30.07	289	340	P	V
		5126.36	45.82	-8.18	54	32.64	32.09	11.16	30.07	289	340	A	V
	*	5220	122.33	-	-	109.4	31.71	11.28	30.06	289	340	P	V
	*	5220	115.22	-	-	102.29	31.71	11.28	30.06	289	340	A	V
		5408.76	54.87	-19.13	74	41.69	31.81	11.44	30.07	289	340	P	V
		5414.92	47.68	-6.32	54	34.48	31.83	11.44	30.07	289	340	A	V

802.11a CH 48 5240MHz		5150	53.14	-20.86	74	40.04	31.98	11.19	30.07	333	15	P	H
		5147.42	46.27	-7.73	54	33.16	31.99	11.19	30.07	333	15	A	H
	*	5240	122.69	-	-	110	31.44	11.3	30.05	333	15	P	H
	*	5240	114.04	-	-	101.35	31.44	11.3	30.05	333	15	A	H
		5431.44	54.55	-19.45	74	41.25	31.92	11.46	30.08	333	15	P	H
		5432.84	46.82	-7.18	54	33.51	31.93	11.46	30.08	333	15	A	H
		5139.88	52.57	-21.43	74	39.4	32.06	11.18	30.07	301	340	P	V
		5147.42	45.87	-8.13	54	32.71	32.04	11.19	30.07	301	340	A	V
	*	5240	123.44	-	-	110.55	31.64	11.3	30.05	301	340	P	V
	*	5240	114.86	-	-	101.97	31.64	11.3	30.05	301	340	A	V
		5434.8	54.02	-19.98	74	40.74	31.9	11.46	30.08	301	340	P	V
		5434.52	46.82	-7.18	54	33.54	31.9	11.46	30.08	301	340	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	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 36 5180MHz		10360	55.09	-13.11	68.2	57.18	39.48	16.63	58.2	-	-	P	H
		11488	52.8	-21.2	74	54.3	40.14	17.61	59.25	-	-	P	H
		11488	41.07	-12.93	54	42.57	40.14	17.61	59.25	-	-	A	H
		13347	51.9	-22.1	74	54.17	39.49	19.21	60.97	-	-	P	H
		13347	39.6	-14.4	54	41.87	39.49	19.21	60.97	-	-	A	H
		14491	52.17	-21.83	74	51.66	41.76	20.04	61.29	-	-	P	H
		14491	40.4	-13.6	54	39.89	41.76	20.04	61.29	-	-	A	H
		15540	54.04	-19.96	74	56.51	37.99	20.71	61.17	204	169	P	H
		15540	47.07	-6.93	54	49.54	37.99	20.71	61.17	204	169	A	H
		17989	60.76	-13.24	74	45.8	48.15	23	56.19	-	-	P	H
		17989	49.76	-4.24	54	34.8	48.15	23	56.19	-	-	A	H
		10360	57.84	-10.36	68.2	59.95	39.46	16.63	58.2	-	-	P	V
		11488	52.64	-21.36	74	54.04	40.24	17.61	59.25	-	-	P	V
		11488	40.9	-13.1	54	42.3	40.24	17.61	59.25	-	-	A	V
		13380	50.55	-23.45	74	52.68	39.6	19.24	60.97	-	-	P	V
		13380	39.48	-14.52	54	41.61	39.6	19.24	60.97	-	-	A	V
		14491	51.5	-22.5	74	51.12	41.63	20.04	61.29	-	-	P	V
		14491	39.97	-14.03	54	39.59	41.63	20.04	61.29	-	-	A	V
		15540	55.85	-18.15	74	58.15	38.16	20.71	61.17	306	335	P	V
		15540	48.45	-5.55	54	50.75	38.16	20.71	61.17	306	335	A	V
		17978	60.47	-13.53	74	46.2	47.5	22.99	56.22	-	-	P	V
		17978	49.47	-4.53	54	35.2	47.5	22.99	56.22	-	-	A	V

WIFI	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 44 5220MHz		10440	54.98	-13.22	68.2	56.87	39.71	16.7	58.3	-	-	P	H
		11477	52.46	-21.54	74	53.94	40.15	17.6	59.23	-	-	P	H
		11477	41.16	-12.84	54	42.64	40.15	17.6	59.23	-	-	A	H
		13369	51.94	-22.06	74	54.12	39.56	19.23	60.97	-	-	P	H
		13369	39.61	-14.39	54	41.79	39.56	19.23	60.97	-	-	A	H
		14491	52.4	-21.6	74	51.89	41.76	20.04	61.29	-	-	P	H
		14491	42.37	-11.63	54	41.86	41.76	20.04	61.29	-	-	A	H
		15660	51.45	-22.55	74	54.2	37.57	20.79	61.11	269	334	P	H
		15660	41.48	-12.52	54	44.23	37.57	20.79	61.11	269	334	A	H
		17967	60.71	-13.29	74	46.4	47.59	22.97	56.25	-	-	P	H
		17967	49.61	-4.39	54	35.3	47.59	22.97	56.25	-	-	A	H
		10440	58.57	-9.63	68.2	60.44	39.73	16.7	58.3	-	-	P	V
		11477	52.23	-21.77	74	53.63	40.23	17.6	59.23	-	-	P	V
		11477	41.1	-12.9	54	42.5	40.23	17.6	59.23	-	-	A	V
		13380	52.49	-21.51	74	54.62	39.6	19.24	60.97	-	-	P	V
		13380	39.92	-14.08	54	42.05	39.6	19.24	60.97	-	-	A	V
		14491	51.8	-22.2	74	51.42	41.63	20.04	61.29	-	-	P	V
		14491	40.49	-13.51	54	40.11	41.63	20.04	61.29	-	-	A	V
		15660	51.61	-22.39	74	54.21	37.72	20.79	61.11	318	204	P	V
		15660	40.57	-13.43	54	43.17	37.72	20.79	61.11	318	204	A	V
		17978	60.07	-13.93	74	45.8	47.5	22.99	56.22	-	-	P	V
		17978	49.17	-4.83	54	34.9	47.5	22.99	56.22	-	-	A	V

WIFI	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)
		10480	52.13	-16.07	68.2	53.99	39.77	16.73	58.36	-	-	P	H
		11092	52.49	-21.51	74	54.3	40.07	17.25	59.13	-	-	P	H
		11092	40.74	-13.26	54	42.55	40.07	17.25	59.13	-	-	A	H
		13369	52.28	-21.72	74	54.46	39.56	19.23	60.97	-	-	P	H
		13369	40.83	-13.17	54	43.01	39.56	19.23	60.97	-	-	A	H
		14491	52.27	-21.73	74	51.76	41.76	20.04	61.29	-	-	P	H
		14491	41.52	-12.48	54	41.01	41.76	20.04	61.29	-	-	A	H
		15720	49.33	-24.67	74	52.26	37.3	20.83	61.06	238	227	P	H
		15720	41.51	-12.49	54	44.44	37.3	20.83	61.06	238	227	A	H
		18000	61.08	-12.92	74	45.8	48.43	23.01	56.16	-	-	P	H
		18000	49.38	-4.62	54	34.1	48.43	23.01	56.16	-	-	A	H
802.11a CH 48 5240MHz													
		10480	54.05	-14.15	68.2	55.86	39.82	16.73	58.36	-	-	P	V
		11554	53.09	-20.91	74	54.56	40.16	17.67	59.3	-	-	P	V
		11554	41.12	-12.88	54	42.59	40.16	17.67	59.3	-	-	A	V
		13391	52.48	-21.52	74	54.57	39.63	19.25	60.97	-	-	P	V
		13391	39.94	-14.06	54	42.03	39.63	19.25	60.97	-	-	A	V
		14491	52.63	-21.37	74	52.25	41.63	20.04	61.29	-	-	P	V
		14491	41.85	-12.15	54	41.47	41.63	20.04	61.29	-	-	A	V
		15720	54.09	-19.91	74	56.81	37.51	20.83	61.06	305	49	P	V
		15720	46.19	-7.81	54	48.91	37.51	20.83	61.06	305	49	A	V
		17956	59.87	-14.13	74	46.2	46.99	22.96	56.28	-	-	P	V
		17956	49.27	-4.73	54	35.6	46.99	22.96	56.28	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-1 5150~5250MHz

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

WIFI	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)
		5150.02	54.74	-95.26	150	41.63	31.98	11.2	30.07	265	170	P	H
		5150.02	48.85	-101.15	150	35.74	31.98	11.2	30.07	265	170	A	H
	*	5180	121.34	-	-	108.41	31.77	11.23	30.07	265	170	P	H
	*	5180	109.92	-	-	96.99	31.77	11.23	30.07	265	170	A	H
802.11ax													
HE20 Full													
CH 36		5149.76	60.65	-13.35	74	47.49	32.04	11.19	30.07	301	340	P	V
5180MHz		5148.98	52.5	-1.5	54	39.34	32.04	11.19	30.07	301	340	A	V
	*	5180	122.35	-	-	109.3	31.89	11.23	30.07	301	340	P	V
	*	5180	111.28	-	-	98.23	31.89	11.23	30.07	301	340	A	V
		5119.6	53.98	-20.02	74	40.85	32.05	11.16	30.08	266	164	P	H
		5121.68	45.44	-8.56	54	32.31	32.05	11.16	30.08	266	164	A	H
	*	5220	123.29	-	-	110.53	31.54	11.28	30.06	266	164	P	H
	*	5220	114.07	-	-	101.31	31.54	11.28	30.06	266	164	A	H
802.11ax		5374.04	55.13	-18.87	74	42.13	31.66	11.41	30.07	266	164	P	H
HE20 Full		5413.52	46.42	-7.58	54	33.21	31.84	11.44	30.07	266	164	A	H
CH 44		5117.52	53.55	-20.45	74	40.37	32.11	11.15	30.08	315	338	P	V
5220MHz		5149.76	45.14	-8.86	54	31.98	32.04	11.19	30.07	315	338	A	V
	*	5220	122.2	-	-	109.27	31.71	11.28	30.06	315	338	P	V
	*	5220	114.19	-	-	101.26	31.71	11.28	30.06	315	338	A	V
		5371.8	55.07	-18.93	74	42.09	31.64	11.41	30.07	315	338	P	V
		5408.2	46.43	-7.57	54	33.26	31.8	11.44	30.07	315	338	A	V

		5138.84	53.94	-20.06	74	40.82	32.01	11.18	30.07	273	164	P	H
		5141.44	45.95	-8.05	54	32.84	32	11.18	30.07	273	164	A	H
	*	5240	125	-	-	112.31	31.44	11.3	30.05	273	164	P	H
	*	5240	114.09	-	-	101.4	31.44	11.3	30.05	273	164	A	H
802.11ax		5432.28	53.84	-20.16	74	40.54	31.92	11.46	30.08	273	164	P	H
HE20 Full		5433.12	45.77	-8.23	54	32.46	31.93	11.46	30.08	273	164	A	H
CH 48		5135.2	53.27	-20.73	74	40.09	32.07	11.18	30.07	295	338	P	V
5240MHz		5146.38	45.22	-8.78	54	32.06	32.04	11.19	30.07	295	338	A	V
	*	5240	125.36	-	-	112.47	31.64	11.3	30.05	295	338	P	V
	*	5240	114	-	-	101.11	31.64	11.3	30.05	295	338	A	V
		5428.92	54.44	-19.56	74	41.18	31.88	11.46	30.08	295	338	P	V
		5435.36	45.74	-8.26	54	32.46	31.9	11.46	30.08	295	338	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	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)
		10360	52.77	-15.43	68.2	65.41	39.48	16.63	68.75	-	-	P	H
		11279	50.57	-23.43	74	61.1	39.82	17.43	67.78	-	-	P	H
		11279	41.58	-12.42	54	52.11	39.82	17.43	67.78	-	-	A	H
		13281	49.57	-24.43	74	58.91	39.24	19.16	67.74	-	-	P	H
		13281	41.89	-12.11	54	51.23	39.24	19.16	67.74	-	-	A	H
		14491	51.97	-22.03	74	57.91	41.76	20.04	67.74	-	-	P	H
		14491	43.87	-10.13	54	49.81	41.76	20.04	67.74	-	-	A	H
		15540	57.75	-16.25	74	67.86	37.99	20.71	68.81	282	105	P	H
		15540	42.78	-11.22	54	52.89	37.99	20.71	68.81	282	105	A	H
		18000	61.27	-12.73	74	59.25	48.43	23.01	69.42	-	-	P	H
802.11ax		18000	51.97	-2.03	54	49.95	48.43	23.01	69.42	-	-	A	H
HE20 Full													
CH 36		10360	56.21	-11.99	68.2	68.87	39.46	16.63	68.75	-	-	P	V
5180MHz		11433	50.21	-23.79	74	60.14	40.16	17.56	67.65	-	-	P	V
		11433	41.56	-12.44	54	51.49	40.16	17.56	67.65	-	-	A	V
		13391	49.54	-24.46	74	58.34	39.63	19.25	67.68	-	-	P	V
		13391	43.12	-10.88	54	51.92	39.63	19.25	67.68	-	-	A	V
		14491	51.48	-22.52	74	57.55	41.63	20.04	67.74	-	-	P	V
		14491	43.64	-10.36	54	49.71	41.63	20.04	67.74	-	-	A	V
		15540	57.9	-16.1	74	67.84	38.16	20.71	68.81	290	257	P	V
		15540	43.35	-10.65	54	53.29	38.16	20.71	68.81	290	257	A	V
		18000	61	-13	74	59.4	48.01	23.01	69.42	-	-	P	V
		18000	50.4	-3.6	54	48.8	48.01	23.01	69.42	-	-	A	V

WIFI	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)
		10440	54.63	-13.57	68.2	56.52	39.71	16.7	58.3	-	-	P	H
		11576	52.9	-21.1	74	54.46	40.08	17.69	59.33	-	-	P	H
		11576	40.01	-13.99	54	41.57	40.08	17.69	59.33	-	-	A	H
		13391	51.83	-22.17	74	53.91	39.64	19.25	60.97	-	-	P	H
		13391	39.48	-14.52	54	41.56	39.64	19.25	60.97	-	-	A	H
		14491	52.71	-21.29	74	52.2	41.76	20.04	61.29	-	-	P	H
		14491	40.51	-13.49	54	40	41.76	20.04	61.29	-	-	A	H
		15660	50.95	-23.05	74	53.7	37.57	20.79	61.11	243	152	P	H
		15660	42.66	-11.34	54	45.41	37.57	20.79	61.11	243	152	A	H
		17967	60.41	-13.59	74	46.1	47.59	22.97	56.25	-	-	P	H
802.11ax		17967	49.11	-4.89	54	34.8	47.59	22.97	56.25	-	-	A	H
HE20 Full													
CH 44		10440	56.7	-11.5	68.2	58.57	39.73	16.7	58.3	-	-	P	V
5220MHz		11444	52.43	-21.57	74	53.86	40.19	17.57	59.19	-	-	P	V
		11444	39.79	-14.21	54	41.22	40.19	17.57	59.19	-	-	A	V
		13391	51.72	-22.28	74	53.81	39.63	19.25	60.97	-	-	P	V
		13391	40.14	-13.86	54	42.23	39.63	19.25	60.97	-	-	A	V
		14491	52.69	-21.31	74	52.31	41.63	20.04	61.29	-	-	P	V
		14491	41.26	-12.74	54	40.88	41.63	20.04	61.29	-	-	A	V
		15660	50.96	-23.04	74	53.56	37.72	20.79	61.11	331	235	P	V
		15660	42.21	-11.79	54	44.81	37.72	20.79	61.11	331	235	A	V
		17978	60.07	-13.93	74	45.8	47.5	22.99	56.22	-	-	P	V
		17978	49.97	-4.03	54	35.7	47.5	22.99	56.22	-	-	A	V

WIFI	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)
		10480	52.66	-15.54	68.2	54.52	39.77	16.73	58.36	-	-	P	H
		11587	52.49	-21.51	74	54.1	40.04	17.7	59.35	-	-	P	H
		11587	40.65	-13.35	54	42.26	40.04	17.7	59.35	-	-	A	H
		13380	51.08	-22.92	74	53.21	39.6	19.24	60.97	-	-	P	H
		13380	40.43	-13.57	54	42.56	39.6	19.24	60.97	-	-	A	H
		14491	51.61	-22.39	74	51.1	41.76	20.04	61.29	-	-	P	H
		14491	40.6	-13.4	54	40.09	41.76	20.04	61.29	-	-	A	H
		15720	49.52	-24.48	74	52.45	37.3	20.83	61.06	241	118	P	H
		15720	41.65	-12.35	54	44.58	37.3	20.83	61.06	241	118	A	H
		17978	60.43	-13.57	74	45.79	47.87	22.99	56.22	-	-	P	H
802.11ax		17978	49.73	-4.27	54	35.09	47.87	22.99	56.22	-	-	A	H
HE20 Full													
CH 48		10480	53.53	-14.67	68.2	55.34	39.82	16.73	58.36	-	-	P	V
5240MHz		11510	52.56	-21.44	74	53.97	40.23	17.63	59.27	-	-	P	V
		11510	40.76	-13.24	54	42.17	40.23	17.63	59.27	-	-	A	V
		13380	51.42	-22.58	74	53.55	39.6	19.24	60.97	-	-	P	V
		13380	40.43	-13.57	54	42.56	39.6	19.24	60.97	-	-	A	V
		14491	52.06	-21.94	74	51.68	41.63	20.04	61.29	-	-	P	V
		14491	40.47	-13.53	54	40.09	41.63	20.04	61.29	-	-	A	V
		15720	50.2	-23.8	74	52.92	37.51	20.83	61.06	324	226	P	V
		15720	42.33	-11.67	54	45.05	37.51	20.83	61.06	324	226	A	V
		17967	60.07	-13.93	74	46.1	47.25	22.97	56.25	-	-	P	V
		17967	49.57	-4.43	54	35.6	47.25	22.97	56.25	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-1 - 5150~5250MHz

WIFI 802.11ax HE20 Partial RU 52 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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 Partial RU 52_52_52_52 CH 36 5180MHz		5086.06	55.25	-18.75	74	40.47	33.25	11.9	30.37	400	250	P	H
		5149.5	46.01	-7.99	54	31.24	33.22	11.9	30.35	400	250	A	H
	*	5180	104.05	-	-	89.27	33.24	11.9	30.36	400	250	P	H
	*	5180	99.19	-	-	84.41	33.24	11.9	30.36	400	250	A	H
													H
													H
		5149.76	55.66	-18.34	74	40.89	33.22	11.9	30.35	124	256	P	V
		5149.76	48.08	-5.92	54	33.31	33.22	11.9	30.35	124	256	A	V
	*	5180	110.41	-	-	95.63	33.24	11.9	30.36	124	256	P	V
	*	5180	105.03	-	-	90.25	33.24	11.9	30.36	124	256	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

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

WIFI	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		5148.98	61.53	-12.47	74	48.43	31.98	11.19	30.07	267	162	P	H
		5148.46	52.51	-1.49	54	39.4	31.99	11.19	30.07	267	162	A	H
	*	5190	119.37	-	-	106.48	31.71	11.25	30.07	267	162	P	H
	*	5190	109.55	-	-	96.66	31.71	11.25	30.07	267	162	A	H
		5388.32	53.25	-20.75	74	40.17	31.73	11.42	30.07	267	162	P	H
		5383.84	44.43	-9.57	54	31.38	31.7	11.42	30.07	267	162	A	H
		5148.98	59.44	-14.56	74	46.28	32.04	11.19	30.07	316	341	P	V
		5145.08	50.53	-3.47	54	37.36	32.05	11.19	30.07	316	341	A	V
	*	5190	118.27	-	-	105.25	31.84	11.25	30.07	316	341	P	V
	*	5190	109.68	-	-	96.66	31.84	11.25	30.07	316	341	A	V
		5384.12	53.39	-20.61	74	40.34	31.7	11.42	30.07	316	341	P	V
		5384.68	45.03	-8.97	54	31.98	31.7	11.42	30.07	316	341	A	V
802.11ax HE40 Full CH 46 5230MHz		5145.6	59.08	-14.92	74	45.97	31.99	11.19	30.07	270	162	P	H
		5148.98	52.32	-1.68	54	39.22	31.98	11.19	30.07	270	162	A	H
	*	5230	122.11	-	-	109.39	31.49	11.29	30.06	270	162	P	H
	*	5230	113.3	-	-	100.58	31.49	11.29	30.06	270	162	A	H
		5424.44	53.35	-20.65	74	40.08	31.89	11.45	30.07	270	162	P	H
		5350.24	45.46	-8.54	54	32.59	31.54	11.4	30.07	270	162	A	H
		5146.64	58.14	-15.86	74	44.98	32.04	11.19	30.07	314	339	P	V
		5145.86	50.13	-3.87	54	36.97	32.04	11.19	30.07	314	339	A	V
	*	5230	122.22	-	-	109.32	31.67	11.29	30.06	314	339	P	V
	*	5230	112.93	-	-	100.03	31.67	11.29	30.06	314	339	A	V
		5353.32	54.09	-19.91	74	41.21	31.55	11.4	30.07	314	339	P	V
		5418.56	45.5	-8.5	54	32.28	31.84	11.45	30.07	314	339	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	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)
		10380	51.92	-16.28	68.2	53.95	39.55	16.64	58.22	-	-	P	H
		11499	52.72	-21.28	74	54.24	40.14	17.61	59.27	-	-	P	H
		11499	40.76	-13.24	54	42.28	40.14	17.61	59.27	-	-	A	H
		13380	52.28	-21.72	74	54.41	39.6	19.24	60.97	-	-	P	H
		13380	40.76	-13.24	54	42.89	39.6	19.24	60.97	-	-	A	H
		14491	53.21	-20.79	74	52.7	41.76	20.04	61.29	-	-	P	H
		14491	41	-13	54	40.49	41.76	20.04	61.29	-	-	A	H
		15570	53.59	-20.41	74	56.13	37.88	20.73	61.15	318	101	P	H
		15570	46.69	-7.31	54	49.23	37.88	20.73	61.15	318	101	A	H
		18000	61.98	-12.02	74	46.7	48.43	23.01	56.16	-	-	P	H
802.11ax		18000	50.38	-3.62	54	35.1	48.43	23.01	56.16	-	-	A	H
HE40 Full													
CH 38		10380	56.74	-11.46	68.2	58.77	39.55	16.64	58.22	-	-	P	V
5190MHz		11466	52.58	-21.42	74	53.99	40.22	17.59	59.22	-	-	P	V
		11466	41.7	-12.3	54	43.11	40.22	17.59	59.22	-	-	A	V
		13380	51.48	-22.52	74	53.61	39.6	19.24	60.97	-	-	P	V
		13380	40.33	-13.67	54	42.46	39.6	19.24	60.97	-	-	A	V
		14491	53.26	-20.74	74	52.88	41.63	20.04	61.29	-	-	P	V
		14491	41.08	-12.92	54	40.7	41.63	20.04	61.29	-	-	A	V
		15570	56.72	-17.28	74	59.12	38.02	20.73	61.15	395	58	P	V
		15570	48.37	-5.63	54	50.77	38.02	20.73	61.15	395	58	A	V
		17956	61.07	-12.93	74	47.4	46.99	22.96	56.28	-	-	P	V
		17956	49.97	-4.03	54	36.3	46.99	22.96	56.28	-	-	A	V

WIFI	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)
		10460	52.34	-15.86	68.2	54.22	39.74	16.71	58.33	-	-	P	H
		11444	52.3	-21.7	74	53.77	40.15	17.57	59.19	-	-	P	H
		11444	42.24	-11.76	54	43.71	40.15	17.57	59.19	-	-	A	H
		13369	51.49	-22.51	74	53.67	39.56	19.23	60.97	-	-	P	H
		13369	40.39	-13.61	54	42.57	39.56	19.23	60.97	-	-	A	H
		14491	52.95	-21.05	74	52.44	41.76	20.04	61.29	-	-	P	H
		14491	41.11	-12.89	54	40.6	41.76	20.04	61.29	-	-	A	H
		15690	52.77	-21.23	74	55.61	37.41	20.81	61.06	302	111	P	H
		15690	46.27	-7.73	54	49.11	37.41	20.81	61.06	302	111	A	H
		18000	60.78	-13.22	74	45.5	48.43	23.01	56.16	-	-	P	H
802.11ax		18000	50.48	-3.52	54	35.2	48.43	23.01	56.16	-	-	A	H
HE40 Full													
CH 46		10460	54.55	-13.65	68.2	56.39	39.78	16.71	58.33	-	-	P	V
5230MHz		11466	52.27	-21.73	74	53.68	40.22	17.59	59.22	-	-	P	V
		11466	41.1	-12.9	54	42.51	40.22	17.59	59.22	-	-	A	V
		13369	50.95	-23.05	74	53.12	39.57	19.23	60.97	-	-	P	V
		13369	40.29	-13.71	54	42.46	39.57	19.23	60.97	-	-	A	V
		14491	51.88	-22.12	74	51.5	41.63	20.04	61.29	-	-	P	V
		14491	41.28	-12.72	54	40.9	41.63	20.04	61.29	-	-	A	V
		15690	55.88	-18.12	74	58.51	37.62	20.81	61.06	388	60	P	V
		15690	47.28	-6.72	54	49.91	37.62	20.81	61.06	388	60	A	V
		17989	60.16	-13.84	74	45.59	47.76	23	56.19	-	-	P	V
		17989	50.16	-3.84	54	35.59	47.76	23	56.19	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-1 5150~5250MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	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		5147.68	62.71	-11.29	74	49.6	31.99	11.19	30.07	266	163	P	H
		5148.2	53.4	-0.6	54	40.29	31.99	11.19	30.07	266	163	A	H
	*	5210	113.89	-	-	101.1	31.59	11.27	30.07	266	163	P	H
	*	5210	105	-	-	92.21	31.59	11.27	30.07	266	163	A	H
		5351.08	53.55	-20.45	74	40.67	31.55	11.4	30.07	266	163	P	H
		5350.8	46.95	-7.05	54	34.07	31.55	11.4	30.07	266	163	A	H
		5145.86	59.84	-14.16	74	46.68	32.04	11.19	30.07	312	340	P	V
		5145.86	51.7	-2.3	54	38.54	32.04	11.19	30.07	312	340	A	V
	*	5210	113.45	-	-	100.5	31.75	11.27	30.07	312	340	P	V
	*	5210	105.4	-	-	92.45	31.75	11.27	30.07	312	340	A	V
		5353.04	56.43	-17.57	74	43.55	31.55	11.4	30.07	312	340	P	V
		5352.76	47	-7	54	34.12	31.55	11.4	30.07	312	340	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	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)
		10420	50.34	-17.86	68.2	52.25	39.67	16.69	58.27	-	-	P	H
		11565	52.48	-21.52	74	53.99	40.12	17.68	59.31	-	-	P	H
		11565	41.99	-12.01	54	43.5	40.12	17.68	59.31	-	-	A	H
		13358	51.41	-22.59	74	53.63	39.53	19.22	60.97	-	-	P	H
		13358	40.46	-13.54	54	42.68	39.53	19.22	60.97	-	-	A	H
		14491	52.49	-21.51	74	51.98	41.76	20.04	61.29	-	-	P	H
		14491	40.59	-13.41	54	40.08	41.76	20.04	61.29	-	-	A	H
		15630	48.79	-25.21	74	51.46	37.69	20.77	61.13	241	116	P	H
		15630	39.84	-14.16	54	42.51	37.69	20.77	61.13	241	116	A	H
		17978	60.23	-13.77	74	45.59	47.87	22.99	56.22	-	-	P	H
802.11ax		17978	49.83	-4.17	54	35.19	47.87	22.99	56.22	-	-	A	H
HE80 Full													
CH 42		10420	53.01	-15.19	68.2	54.91	39.68	16.69	58.27	-	-	P	V
5210MHz		11466	53.4	-20.6	74	54.81	40.22	17.59	59.22	-	-	P	V
		11466	41.54	-12.46	54	42.95	40.22	17.59	59.22	-	-	A	V
		13380	52.33	-21.67	74	54.46	39.6	19.24	60.97	-	-	P	V
		13380	40.03	-13.97	54	42.16	39.6	19.24	60.97	-	-	A	V
		14491	52.13	-21.87	74	51.75	41.63	20.04	61.29	-	-	P	V
		14491	40.8	-13.2	54	40.42	41.63	20.04	61.29	-	-	A	V
		15630	49.71	-24.29	74	52.27	37.8	20.77	61.13	300	209	P	V
		15630	41.45	-12.55	54	44.01	37.8	20.77	61.13	300	209	A	V
		17989	60.76	-13.24	74	46.19	47.76	23	56.19	-	-	P	V
		17989	50.26	-3.74	54	35.69	47.76	23	56.19	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-1 5150~5250MHz

WIFI 802.11ax HE80+80 Full (Band Edge @ 3m)

WIFI	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+80 Full CH 42+58 5210MHz + 5290MHz		5130	57.96	-16.04	74	44.83	32.03	11.17	30.07	292	163	P	H
		5130	53.83	-0.17	54	40.7	32.03	11.17	30.07	292	163	A	H
	*	5210	108	-	-	95.21	31.59	11.27	30.07	292	163	P	H
	*	5210	100.43	-	-	87.64	31.59	11.27	30.07	292	163	A	H
	*	5290	108.32	-	-	95.63	31.4	11.36	30.07	292	163	P	H
	*	5290	99.8	-	-	87.11	31.4	11.36	30.07	292	163	A	H
		5357.52	57.19	-16.81	74	44.28	31.58	11.4	30.07	292	163	P	H
		5361.16	50.29	-3.71	54	37.35	31.6	11.41	30.07	292	163	A	H
		5147.42	57.62	-16.38	74	44.46	32.04	11.19	30.07	344	343	P	V
		5150	47.72	-6.28	54	34.57	32.03	11.19	30.07	344	343	A	V
	*	5210	108.26	-	-	95.31	31.75	11.27	30.07	344	343	P	V
	*	5210	100.18	-	-	87.23	31.75	11.27	30.07	344	343	A	V
	*	5290	109.61	-	-	96.89	31.43	11.36	30.07	344	343	P	V
	*	5290	101.22	-	-	88.5	31.43	11.36	30.07	344	343	A	V
		5365.08	59.28	-14.72	74	46.33	31.61	11.41	30.07	344	343	P	V
		5351.36	52.25	-1.75	54	39.38	31.54	11.4	30.07	344	343	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ax HE80+80 Full (Harmonic @ 3m)

WIFI	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+80 Full CH 42+58 5210MHz 5290MHz		10420	51.28	-16.92	68.2	53.19	39.67	16.69	58.27	-	-	P	H
		10575	50.91	-17.29	68.2	52.75	39.85	16.81	58.5	-	-	P	H
		11455	52.84	-21.16	74	54.3	40.16	17.58	59.2	-	-	P	H
		11455	41.1	-12.9	54	42.56	40.16	17.58	59.2	-	-	A	H
		13369	51.83	-22.17	74	54.01	39.56	19.23	60.97	-	-	P	H
		13369	40.68	-13.32	54	42.86	39.56	19.23	60.97	-	-	A	H
		14491	51.37	-22.63	74	50.86	41.76	20.04	61.29	-	-	P	H
		14491	40.92	-13.08	54	40.41	41.76	20.04	61.29	-	-	A	H
		15630	47.9	-26.1	74	50.57	37.69	20.77	61.13	-	-	P	H
		15870	47.92	-26.08	74	50.92	36.94	20.94	60.88	-	-	P	H
		17934	61.34	-12.66	74	47.94	46.79	22.94	56.33	-	-	P	H
		17934	50.66	-3.34	54	37.26	46.79	22.94	56.33	-	-	A	H
		10420	49.92	-18.28	68.2	51.82	39.68	16.69	58.27	-	-	P	V
		10575	51.41	-16.79	68.2	53.3	39.8	16.81	58.5	-	-	P	V
		11323	53.24	-20.76	74	54.95	39.93	17.46	59.1	-	-	P	V
		11323	40.83	-13.17	54	42.54	39.93	17.46	59.1	-	-	A	V
		13369	51.49	-22.51	74	53.66	39.57	19.23	60.97	-	-	P	V
		13369	40.55	-13.45	54	42.72	39.57	19.23	60.97	-	-	A	V
		14491	52.83	-21.17	74	52.45	41.63	20.04	61.29	-	-	P	V
		14491	40.27	-13.73	54	39.89	41.63	20.04	61.29	-	-	A	V
		15630	47.9	-26.1	74	50.46	37.8	20.77	61.13	-	-	P	V
		15870	47.91	-26.09	74	50.62	37.23	20.94	60.88	-	-	P	V
		17934	61.45	-12.55	74	48.31	46.53	22.94	56.33	-	-	P	V
		17934	50.47	-3.53	54	37.33	46.53	22.94	56.33	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

UNII-2A - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	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		5116.62	53.56	-20.44	74	40.43	32.06	11.15	30.08	256	95	P	H
		5144.16	45.14	-8.86	54	32.02	32	11.19	30.07	256	95	A	H
	*	5260	123.39	-	-	110.72	31.4	11.33	30.06	256	95	P	H
	*	5260	115.3	-	-	102.63	31.4	11.33	30.06	256	95	A	H
		5355.84	54.27	-19.73	74	41.37	31.57	11.4	30.07	256	95	P	H
		5358.96	47.44	-6.56	54	34.51	31.59	11.41	30.07	256	95	A	H
		5101.66	55.98	-18.02	74	42.78	32.15	11.13	30.08	327	340	P	V
		5147.22	45.17	-8.83	54	32.01	32.04	11.19	30.07	327	340	A	V
	*	5260	123.02	-	-	110.19	31.56	11.33	30.06	327	340	P	V
	*	5260	115.48	-	-	102.65	31.56	11.33	30.06	327	340	A	V
		5408.16	54.86	-19.14	74	41.69	31.8	11.44	30.07	327	340	P	V
		5360.64	48.12	-5.88	54	35.2	31.58	11.41	30.07	327	340	A	V
802.11a CH 60 5300MHz		5120.02	54.27	-19.73	74	41.14	32.05	11.16	30.08	256	94	P	H
		5114.58	45.34	-8.66	54	32.2	32.07	11.15	30.08	256	94	A	H
	*	5300	122.42	-	-	109.73	31.4	11.37	30.08	256	94	P	H
	*	5300	115.08	-	-	102.39	31.4	11.37	30.08	256	94	A	H
		5356.56	54.57	-19.43	74	41.67	31.57	11.4	30.07	256	94	P	H
		5399.04	47.41	-6.59	54	34.27	31.78	11.43	30.07	256	94	A	H
		5117.98	53.69	-20.31	74	40.51	32.11	11.15	30.08	311	340	P	V
		5147.22	45.05	-8.95	54	31.89	32.04	11.19	30.07	311	340	A	V
	*	5300	122.76	-	-	110.08	31.39	11.37	30.08	311	340	P	V
	*	5300	115.35	-	-	102.67	31.39	11.37	30.08	311	340	A	V
		5350.08	58.77	-15.23	74	45.91	31.53	11.4	30.07	311	340	P	V
		5350.08	53.48	-0.52	54	40.62	31.53	11.4	30.07	311	340	A	V

802.11a CH 64 5320MHz	*	5320	119.16	-	-	106.4	31.46	11.38	30.08	308	14	P	H
	*	5320	111.39	-	-	98.63	31.46	11.38	30.08	308	14	A	H
		5362.24	56.74	-17.26	74	43.8	31.6	11.41	30.07	308	14	P	H
		5362.88	49.29	-4.71	54	36.35	31.6	11.41	30.07	308	14	A	H
	*	5320	119.86	-	-	107.11	31.45	11.38	30.08	315	341	P	V
	*	5320	112.24	-	-	99.49	31.45	11.38	30.08	315	341	A	V
		5350.4	59.9	-14.1	74	47.03	31.54	11.4	30.07	315	341	P	V
		5352.16	53.14	-0.86	54	40.27	31.54	11.4	30.07	315	341	A	V

Remark

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

UNII-2A 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	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		10520	52.81	-15.39	68.2	54.61	39.84	16.77	58.41	-	-	P	H
		11301	52.13	-21.87	74	53.96	39.83	17.44	59.1	-	-	P	H
		11301	40.78	-13.22	54	42.61	39.83	17.44	59.1	-	-	A	H
		13358	50.67	-23.33	74	52.89	39.53	19.22	60.97	-	-	P	H
		13358	40.89	-13.11	54	43.11	39.53	19.22	60.97	-	-	A	H
		14491	53.11	-20.89	74	52.6	41.76	20.04	61.29	-	-	P	H
		14491	40.56	-13.44	54	40.05	41.76	20.04	61.29	-	-	A	H
		15780	50.63	-23.37	74	53.66	37.13	20.88	61.04	246	235	P	H
		15780	41.48	-12.52	54	44.51	37.13	20.88	61.04	246	235	A	H
		17934	60.89	-13.11	74	47.49	46.79	22.94	56.33	-	-	P	H
		17934	49.59	-4.41	54	36.19	46.79	22.94	56.33	-	-	A	H
		10520	54.84	-13.36	68.2	56.63	39.85	16.77	58.41	-	-	P	V
		11521	52.36	-21.64	74	53.78	40.22	17.64	59.28	-	-	P	V
		11521	41.39	-12.61	54	42.81	40.22	17.64	59.28	-	-	A	V
		13391	51.38	-22.62	74	53.47	39.63	19.25	60.97	-	-	P	V
		13391	40.47	-13.53	54	42.56	39.63	19.25	60.97	-	-	A	V
		14491	52.23	-21.77	74	51.85	41.63	20.04	61.29	-	-	P	V
		14491	40.16	-13.84	54	39.78	41.63	20.04	61.29	-	-	A	V
		15780	50.83	-23.17	74	53.64	37.35	20.88	61.04	300	228	P	V
		15780	41.74	-12.26	54	44.55	37.35	20.88	61.04	300	228	A	V
		17989	60.66	-13.34	74	46.09	47.76	23	56.19	-	-	P	V
		17989	50.36	-3.64	54	35.79	47.76	23	56.19	-	-	A	V

WIFI	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 60 5300MHz		10600	51.37	-22.63	74	63.27	39.81	16.83	68.54	400	127	P	H
		10600	42.82	-11.18	54	54.72	39.81	16.83	68.54	400	127	A	H
		11213	50.22	-23.78	74	60.85	39.85	17.36	67.84	-	-	P	H
		11213	39.52	-14.48	54	50.15	39.85	17.36	67.84	-	-	A	H
		13325	50.01	-23.99	74	59.12	39.41	19.2	67.72	-	-	P	H
		13325	42.01	-11.99	54	51.12	39.41	19.2	67.72	-	-	A	H
		14491	52.7	-21.3	74	58.64	41.76	20.04	67.74	-	-	P	H
		14491	43.91	-10.09	54	49.85	41.76	20.04	67.74	-	-	A	H
		15900	48.44	-25.56	74	58.86	36.92	20.96	68.3	277	187	P	H
		15900	40.44	-13.56	54	50.86	36.92	20.96	68.3	277	187	A	H
		17978	60.24	-13.76	74	58.8	47.87	22.99	69.42	-	-	P	H
		17978	49.94	-4.06	54	48.5	47.87	22.99	69.42	-	-	A	H
		10600	53	-21	74	64.95	39.76	16.83	68.54	100	231	P	V
		10600	45.24	-8.76	54	57.19	39.76	16.83	68.54	100	231	A	V
		11345	49.95	-24.05	74	60.25	39.94	17.48	67.72	-	-	P	V
		11345	41.04	-12.96	54	51.34	39.94	17.48	67.72	-	-	A	V
		13292	50.61	-23.39	74	59.89	39.28	19.17	67.73	-	-	P	V
		13292	42.78	-11.22	54	52.06	39.28	19.17	67.73	-	-	A	V
		14491	51.94	-22.06	74	58.01	41.63	20.04	67.74	-	-	P	V
		14491	43.68	-10.32	54	49.75	41.63	20.04	67.74	-	-	A	V
		15900	48.45	-25.55	74	58.59	37.2	20.96	68.3	139	60	P	V
		15900	39.9	-14.1	54	50.04	37.2	20.96	68.3	139	60	A	V
		17945	60.08	-13.92	74	59.8	46.75	22.95	69.42	-	-	P	V
		17945	49.48	-4.52	54	49.2	46.75	22.95	69.42	-	-	A	V

WIFI	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		10640	54.97	-19.03	74	56.96	39.8	16.87	58.66	248	250	P	H
		10640	45.89	-8.11	54	47.88	39.8	16.87	58.66	248	250	A	H
		11609	51.97	-22.03	74	53.71	39.93	17.71	59.38	-	-	P	H
		11609	40.84	-13.16	54	42.58	39.93	17.71	59.38	-	-	A	H
		13380	51.72	-22.28	74	53.85	39.6	19.24	60.97	-	-	P	H
		13380	40.52	-13.48	54	42.65	39.6	19.24	60.97	-	-	A	H
		14491	51.92	-22.08	74	51.41	41.76	20.04	61.29	-	-	P	H
		14491	40.57	-13.43	54	40.06	41.76	20.04	61.29	-	-	A	H
		15960	55.36	-18.64	74	58.16	36.96	21	60.76	325	258	P	H
		15960	47.01	-6.99	54	49.81	36.96	21	60.76	325	258	A	H
		17967	60.51	-13.49	74	46.2	47.59	22.97	56.25	-	-	P	H
		17967	49.51	-4.49	54	35.2	47.59	22.97	56.25	-	-	A	H
		10640	54.99	-19.01	74	56.99	39.79	16.87	58.66	317	196	P	V
		10640	45.6	-8.4	54	47.6	39.79	16.87	58.66	317	196	A	V
		11543	52.66	-21.34	74	54.1	40.19	17.66	59.29	-	-	P	V
		11543	41.16	-12.84	54	42.6	40.19	17.66	59.29	-	-	A	V
		13369	51.47	-22.53	74	53.64	39.57	19.23	60.97	-	-	P	V
		13369	40.4	-13.6	54	42.57	39.57	19.23	60.97	-	-	A	V
		14491	51.44	-22.56	74	51.06	41.63	20.04	61.29	-	-	P	V
		14491	40.27	-13.73	54	39.89	41.63	20.04	61.29	-	-	A	V
		15960	56.57	-17.43	74	59.19	37.14	21	60.76	400	272	P	V
		15960	48.29	-5.71	54	50.91	37.14	21	60.76	400	272	A	V
		17967	60.27	-13.73	74	46.3	47.25	22.97	56.25	-	-	P	V
		17967	49.77	-4.23	54	35.8	47.25	22.97	56.25	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-2A 5250~5350MHz

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

WIFI	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 52 5260MHz		5148.24	53.31	-20.69	74	40.2	31.99	11.19	30.07	286	168	P	H
		5137.7	44.72	-9.28	54	31.6	32.01	11.18	30.07	286	168	A	H
	*	5260	123.2	-	-	110.53	31.4	11.33	30.06	286	168	P	H
	*	5260	113.99	-	-	101.32	31.4	11.33	30.06	286	168	A	H
		5447.52	54.65	-19.35	74	41.27	31.99	11.47	30.08	286	168	P	H
		5361.6	46.56	-7.44	54	33.62	31.6	11.41	30.07	286	168	A	H
		5107.78	53.56	-20.44	74	40.37	32.13	11.14	30.08	270	343	P	V
		5088.06	44.67	-9.33	54	31.56	32.11	11.08	30.08	270	343	A	V
	*	5260	122.59	-	-	109.76	31.56	11.33	30.06	270	343	P	V
	*	5260	114.11	-	-	101.28	31.56	11.33	30.06	270	343	A	V
		5457.6	55.02	-18.98	74	41.66	31.96	11.48	30.08	270	343	P	V
		5350.08	47.1	-6.9	54	34.24	31.53	11.4	30.07	270	343	A	V
802.11ax HE20 Full CH 60 5300MHz		5146.88	53.27	-20.73	74	40.16	31.99	11.19	30.07	281	166	P	H
		5148.92	44.69	-9.31	54	31.59	31.98	11.19	30.07	281	166	A	H
	*	5300	121.59	-	-	108.9	31.4	11.37	30.08	281	166	P	H
	*	5300	113.9	-	-	101.21	31.4	11.37	30.08	281	166	A	H
		5358.48	54.95	-19.05	74	42.03	31.58	11.41	30.07	281	166	P	H
		5357.04	46.97	-7.03	54	34.06	31.58	11.4	30.07	281	166	A	H
		5085.68	54.66	-19.34	74	41.57	32.1	11.07	30.08	276	342	P	V
		5112.88	44.99	-9.01	54	31.8	32.12	11.15	30.08	276	342	A	V
	*	5300	123.37	-	-	110.69	31.39	11.37	30.08	276	342	P	V
	*	5300	114.58	-	-	101.9	31.39	11.37	30.08	276	342	A	V
		5351.28	61.22	-12.78	74	48.35	31.54	11.4	30.07	276	342	P	V
		5351.52	52.19	-1.81	54	39.32	31.54	11.4	30.07	276	342	A	V

	*	5320	119.53	-	-	106.77	31.46	11.38	30.08	261	164	P	H
	*	5320	109.77	-	-	97.01	31.46	11.38	30.08	261	164	A	H
		5423.2	54.38	-19.62	74	41.12	31.88	11.45	30.07	261	164	P	H
		5359.04	46.68	-7.32	54	33.75	31.59	11.41	30.07	261	164	A	H
802.11ax													
HE20 Full													
CH 64	*	5320	118.67	-	-	105.92	31.45	11.38	30.08	278	339	P	V
5320MHz	*	5320	110.79	-	-	98.04	31.45	11.38	30.08	278	339	A	V
		5350.08	58.57	-15.43	74	45.71	31.53	11.4	30.07	278	339	P	V
		5350.24	53.01	-0.99	54	40.14	31.54	11.4	30.07	278	339	A	V

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

UNII-2A 5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	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)
		10520	51.86	-16.34	68.2	53.66	39.84	16.77	58.41	-	-	P	H
		11422	52.33	-21.67	74	53.87	40.12	17.55	59.21	-	-	P	H
		11422	40.91	-13.09	54	42.45	40.12	17.55	59.21	-	-	A	H
		13380	51.52	-22.48	74	53.65	39.6	19.24	60.97	-	-	P	H
		13380	40.38	-13.62	54	42.51	39.6	19.24	60.97	-	-	A	H
		14491	52.1	-21.9	74	51.59	41.76	20.04	61.29	-	-	P	H
		14491	40.3	-13.7	54	39.79	41.76	20.04	61.29	-	-	A	H
		15780	50.61	-23.39	74	53.64	37.13	20.88	61.04	288	55	P	H
		15780	42.47	-11.53	54	45.5	37.13	20.88	61.04	288	55	A	H
		17967	60.11	-13.89	74	45.8	47.59	22.97	56.25	-	-	P	H
802.11ax		17967	49.81	-4.19	54	35.5	47.59	22.97	56.25	-	-	A	H
HE20 Full													
CH 52		10520	55.49	-12.71	68.2	57.28	39.85	16.77	58.41	-	-	P	V
5260MHz		11389	52.47	-21.53	74	54.1	40.04	17.53	59.2	-	-	P	V
		11389	40.59	-13.41	54	42.22	40.04	17.53	59.2	-	-	A	V
		13281	52.01	-21.99	74	54.58	39.23	19.16	60.96	-	-	P	V
		13281	40.99	-13.01	54	43.56	39.23	19.16	60.96	-	-	A	V
		14491	51.72	-22.28	74	51.34	41.63	20.04	61.29	-	-	P	V
		14491	40.44	-13.56	54	40.06	41.63	20.04	61.29	-	-	A	V
		15780	51.13	-22.87	74	53.94	37.35	20.88	61.04	304	163	P	V
		15780	43.3	-10.7	54	46.11	37.35	20.88	61.04	304	163	A	V
		17967	60.87	-13.13	74	46.9	47.25	22.97	56.25	-	-	P	V
		17967	50.07	-3.93	54	36.1	47.25	22.97	56.25	-	-	A	V

WIFI	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)
		10600	51.31	-22.69	74	53.23	39.81	16.83	58.56	148	59	P	H
		10600	43.04	-10.96	54	44.96	39.81	16.83	58.56	148	59	A	H
		11455	52.49	-21.51	74	53.95	40.16	17.58	59.2	-	-	P	H
		11455	41.09	-12.91	54	42.55	40.16	17.58	59.2	-	-	A	H
		13391	52.03	-21.97	74	54.11	39.64	19.25	60.97	-	-	P	H
		13391	41.02	-12.98	54	43.1	39.64	19.25	60.97	-	-	A	H
		14491	52.72	-21.28	74	52.21	41.76	20.04	61.29	-	-	P	H
		14491	40.46	-13.54	54	39.95	41.76	20.04	61.29	-	-	A	H
		15900	51.2	-22.8	74	54.15	36.92	20.96	60.83	258	316	P	H
		15900	42.68	-11.32	54	45.63	36.92	20.96	60.83	258	316	A	H
802.11ax		18000	60.78	-13.22	74	45.5	48.43	23.01	56.16	-	-	P	H
HE20 Full		18000	50.18	-3.82	54	34.9	48.43	23.01	56.16	-	-	A	H
CH 60		10600	55.88	-18.12	74	57.85	39.76	16.83	58.56	100	226	P	V
5300MHz		10600	46.54	-7.46	54	48.51	39.76	16.83	58.56	100	226	A	V
		11477	52.24	-21.76	74	53.64	40.23	17.6	59.23	-	-	P	V
		11477	41.15	-12.85	54	42.55	40.23	17.6	59.23	-	-	A	V
		13391	50.7	-23.3	74	52.79	39.63	19.25	60.97	-	-	P	V
		13391	40.38	-13.62	54	42.47	39.63	19.25	60.97	-	-	A	V
		14491	51.71	-22.29	74	51.33	41.63	20.04	61.29	-	-	P	V
		14491	40.78	-13.22	54	40.4	41.63	20.04	61.29	-	-	A	V
		15900	50.32	-23.68	74	52.99	37.2	20.96	60.83	297	188	P	V
		15900	43.14	-10.86	54	45.81	37.2	20.96	60.83	297	188	A	V
		17989	60.36	-13.64	74	45.79	47.76	23	56.19	-	-	P	V
		17989	50.26	-3.74	54	35.69	47.76	23	56.19	-	-	A	V

WIFI	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)
		10640	53.21	-20.79	74	55.2	39.8	16.87	58.66	388	114	P	H
		10640	46.51	-7.49	54	48.5	39.8	16.87	58.66	388	114	A	H
		11521	52.12	-21.88	74	53.6	40.16	17.64	59.28	-	-	P	H
		11521	41.63	-12.37	54	43.11	40.16	17.64	59.28	-	-	A	H
		13347	51.3	-22.7	74	53.57	39.49	19.21	60.97	-	-	P	H
		13347	40.86	-13.14	54	43.13	39.49	19.21	60.97	-	-	A	H
		14491	51.38	-22.62	74	50.87	41.76	20.04	61.29	-	-	P	H
		14491	40.57	-13.43	54	40.06	41.76	20.04	61.29	-	-	A	H
		15960	49.62	-24.38	74	52.42	36.96	21	60.76	265	232	P	H
		15960	41.61	-12.39	54	44.41	36.96	21	60.76	265	232	A	H
802.11ax		17945	60.88	-13.12	74	47.2	47.04	22.95	56.31	-	-	P	H
HE20 Full		17945	49.88	-4.12	54	36.2	47.04	22.95	56.31	-	-	A	H
CH 64		10640	55.85	-18.15	74	57.85	39.79	16.87	58.66	100	229	P	V
5320MHz		10640	47.23	-6.77	54	49.23	39.79	16.87	58.66	100	229	A	V
		11378	52.82	-21.18	74	54.47	40.01	17.51	59.17	-	-	P	V
		11378	41.69	-12.31	54	43.34	40.01	17.51	59.17	-	-	A	V
		13369	50.65	-23.35	74	52.82	39.57	19.23	60.97	-	-	P	V
		13369	40.4	-13.6	54	42.57	39.57	19.23	60.97	-	-	A	V
		14491	52.37	-21.63	74	51.99	41.63	20.04	61.29	-	-	P	V
		14491	40.23	-13.77	54	39.85	41.63	20.04	61.29	-	-	A	V
		15960	50.28	-23.72	74	52.9	37.14	21	60.76	297	137	P	V
		15960	42.4	-11.6	54	45.02	37.14	21	60.76	297	137	A	V
		17989	61.16	-12.84	74	46.59	47.76	23	56.19	-	-	P	V
		17989	50.36	-3.64	54	35.79	47.76	23	56.19	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-2a - 5250~5350MHz

WIFI 802.11ax HE20 Partial RU 52 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial RU 52_52_52_52 CH 64 5320MHz	*	5320	107.64	-	-	92.93	33.03	12.03	30.35	146	131	P	H
	*	5320	99.84	-	-	85.13	33.03	12.03	30.35	146	131	A	H
		5434.24	54.71	-19.29	74	39.95	32.96	12.16	30.36	146	131	P	H
		5449.44	44.98	-9.02	54	30.2	32.96	12.18	30.36	146	131	A	H
													H
													H
	*	5320	112.07	-	-	97.36	33.03	12.03	30.35	170	257	P	V
	*	5320	104.87	-	-	90.16	33.03	12.03	30.35	170	257	A	V
		5352	55.42	-18.58	74	40.68	33.03	12.07	30.36	170	257	P	V
		5350.08	46.32	-7.68	54	31.58	33.03	12.07	30.36	170	257	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A 5250~5350MHz

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

WIFI	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 54 5270MHz		5128.52	55.78	-18.22	74	42.65	32.03	11.17	30.07	289	163	P	H
		5149.26	45.28	-8.72	54	32.18	31.98	11.19	30.07	289	163	A	H
	*	5270	119.77	-	-	107.09	31.4	11.34	30.06	289	163	P	H
	*	5270	111.76	-	-	99.08	31.4	11.34	30.06	289	163	A	H
		5357.52	60.71	-13.29	74	47.8	31.58	11.4	30.07	289	163	P	H
		5357.28	53.19	-0.81	54	40.28	31.58	11.4	30.07	289	163	A	H
		5047.26	53.76	-20.24	74	40.97	31.96	10.91	30.08	276	22	P	V
		5147.9	45.37	-8.63	54	32.21	32.04	11.19	30.07	276	22	A	V
	*	5270	121.35	-	-	108.55	31.52	11.34	30.06	276	22	P	V
	*	5270	113.02	-	-	100.22	31.52	11.34	30.06	276	22	A	V
		5369.04	60.84	-13.16	74	47.87	31.63	11.41	30.07	276	22	P	V
		5350.08	53.55	-0.45	54	40.69	31.53	11.4	30.07	276	22	A	V
802.11ax HE40 Full CH 62 5310MHz		5113.9	53.27	-20.73	74	40.13	32.07	11.15	30.08	256	50	P	H
		5134.64	44.31	-9.69	54	31.18	32.02	11.18	30.07	256	50	A	H
	*	5310	114.29	-	-	101.56	31.43	11.38	30.08	256	50	P	H
	*	5310	106.5	-	-	93.77	31.43	11.38	30.08	256	50	A	H
		5360.4	55.05	-18.95	74	42.12	31.59	11.41	30.07	256	50	P	H
		5362.08	47.63	-6.37	54	34.69	31.6	11.41	30.07	256	50	A	H
		5107.1	53.13	-20.87	74	39.94	32.13	11.14	30.08	298	342	P	V
		5087.72	44.66	-9.34	54	31.55	32.11	11.08	30.08	298	342	A	V
	*	5310	114.01	-	-	101.29	31.42	11.38	30.08	298	342	P	V
	*	5310	106.94	-	-	94.22	31.42	11.38	30.08	298	342	A	V
		5350.08	60.03	-13.97	74	47.17	31.53	11.4	30.07	298	342	P	V
		5350.08	53.54	-0.46	54	40.68	31.53	11.4	30.07	298	342	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A 5250~5350MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	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)
		10540	51.15	-17.05	68.2	52.91	39.88	16.79	58.43	-	-	P	H
		11466	52.48	-21.52	74	53.96	40.15	17.59	59.22	-	-	P	H
		11466	41.08	-12.92	54	42.56	40.15	17.59	59.22	-	-	A	H
		13369	50.69	-23.31	74	52.87	39.56	19.23	60.97	-	-	P	H
		13369	40.39	-13.61	54	42.57	39.56	19.23	60.97	-	-	A	H
		14491	51.93	-22.07	74	51.42	41.76	20.04	61.29	-	-	P	H
		14491	40.57	-13.43	54	40.06	41.76	20.04	61.29	-	-	A	H
		15810	50.02	-23.98	74	53.07	37.05	20.9	61	263	205	P	H
		15810	42.07	-11.93	54	45.12	37.05	20.9	61	263	205	A	H
		17989	61.16	-12.84	74	46.2	48.15	23	56.19	-	-	P	H
802.11ax		17989	50.26	-3.74	54	35.3	48.15	23	56.19	-	-	A	H
HE40 Full													
CH 54		10540	53.13	-15.07	68.2	54.93	39.84	16.79	58.43	-	-	P	V
5270MHz		11499	52.71	-21.29	74	54.12	40.25	17.61	59.27	-	-	P	V
		11499	42.11	-11.89	54	43.52	40.25	17.61	59.27	-	-	A	V
		13380	50.79	-23.21	74	52.92	39.6	19.24	60.97	-	-	P	V
		13380	40.34	-13.66	54	42.47	39.6	19.24	60.97	-	-	A	V
		14491	52.43	-21.57	74	52.05	41.63	20.04	61.29	-	-	P	V
		14491	40.15	-13.85	54	39.77	41.63	20.04	61.29	-	-	A	V
		15810	50.77	-23.23	74	53.56	37.31	20.9	61	288	305	P	V
		15810	42.18	-11.82	54	44.97	37.31	20.9	61	288	305	A	V
		17967	60.37	-13.63	74	46.4	47.25	22.97	56.25	-	-	P	V
		17967	49.57	-4.43	54	35.6	47.25	22.97	56.25	-	-	A	V

WIFI	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)
		10620	51	-23	74	52.95	39.81	16.85	58.61	158	224	P	H
		10620	42.15	-11.85	54	44.1	39.81	16.85	58.61	158	224	A	H
		11400	52.95	-21.05	74	54.54	40.1	17.53	59.22	-	-	P	H
		11400	40.97	-13.03	54	42.56	40.1	17.53	59.22	-	-	A	H
		13380	51.27	-22.73	74	53.4	39.6	19.24	60.97	-	-	P	H
		13380	40.59	-13.41	54	42.72	39.6	19.24	60.97	-	-	A	H
		14491	51.63	-22.37	74	51.12	41.76	20.04	61.29	-	-	P	H
		14491	40.57	-13.43	54	40.06	41.76	20.04	61.29	-	-	A	H
		15930	50.03	-23.97	74	52.9	36.95	20.98	60.8	250	216	P	H
		15930	41.57	-12.43	54	44.44	36.95	20.98	60.8	250	216	A	H
802.11ax		18000	60.88	-13.12	74	45.6	48.43	23.01	56.16	-	-	P	H
HE40 Full		18000	50.58	-3.42	54	35.3	48.43	23.01	56.16	-	-	A	H
CH 62		10620	54.51	-19.49	74	56.49	39.78	16.85	58.61	115	208	P	V
5310MHz		10620	47.61	-6.39	54	49.59	39.78	16.85	58.61	115	208	A	V
		11400	52.81	-21.19	74	54.43	40.07	17.53	59.22	-	-	P	V
		11400	41.26	-12.74	54	42.88	40.07	17.53	59.22	-	-	A	V
		13380	52.79	-21.21	74	54.92	39.6	19.24	60.97	-	-	P	V
		13380	40.98	-13.02	54	43.11	39.6	19.24	60.97	-	-	A	V
		14491	52.46	-21.54	74	52.08	41.63	20.04	61.29	-	-	P	V
		14491	40.06	-13.94	54	39.68	41.63	20.04	61.29	-	-	A	V
		15930	51.2	-22.8	74	53.85	37.17	20.98	60.8	269	167	P	V
		15930	41.95	-12.05	54	44.6	37.17	20.98	60.8	269	167	A	V
		17978	60.07	-13.93	74	45.8	47.5	22.99	56.22	-	-	P	V
		17978	49.87	-4.13	54	35.6	47.5	22.99	56.22	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-2A 5250~5350MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	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		5135.32	54.21	-19.79	74	41.08	32.02	11.18	30.07	295	164	P	H
		5136.34	44.46	-9.54	54	31.34	32.01	11.18	30.07	295	164	A	H
	*	5290	111.28	-	-	98.59	31.4	11.36	30.07	295	164	P	H
	*	5290	102.58	-	-	89.89	31.4	11.36	30.07	295	164	A	H
		5356.32	59.54	-14.46	74	46.64	31.57	11.4	30.07	295	164	P	H
		5357.52	52.87	-1.13	54	39.96	31.58	11.4	30.07	295	164	A	H
		5144.84	53.81	-20.19	74	40.64	32.05	11.19	30.07	288	22	P	V
		5147.22	44.61	-9.39	54	31.45	32.04	11.19	30.07	288	22	A	V
	*	5290	112.27	-	-	99.55	31.43	11.36	30.07	288	22	P	V
	*	5290	104.17	-	-	91.45	31.43	11.36	30.07	288	22	A	V
		5354.64	61.57	-12.43	74	48.68	31.56	11.4	30.07	288	22	P	V
		5367.84	53.68	-0.32	54	40.72	31.62	11.41	30.07	288	22	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A 5250~5350MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	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)
		10580	50.32	-17.88	68.2	52.18	39.84	16.81	58.51	-	-	P	H
		11488	52.62	-21.38	74	54.12	40.14	17.61	59.25	-	-	P	H
		11488	41.19	-12.81	54	42.69	40.14	17.61	59.25	-	-	A	H
		13380	51.49	-22.51	74	53.62	39.6	19.24	60.97	-	-	P	H
		13380	40.89	-13.11	54	43.02	39.6	19.24	60.97	-	-	A	H
		14491	53.73	-20.27	74	53.22	41.76	20.04	61.29	-	-	P	H
		14491	40.19	-13.81	54	39.68	41.76	20.04	61.29	-	-	A	H
		15870	49.9	-24.1	74	52.9	36.94	20.94	60.88	217	263	P	H
		15870	42.03	-11.97	54	45.03	36.94	20.94	60.88	217	263	A	H
		17978	60.23	-13.77	74	45.59	47.87	22.99	56.22	-	-	P	H
802.11ax		17978	50.23	-3.77	54	35.59	47.87	22.99	56.22	-	-	A	H
HE80 Full													
CH 58		10580	51.11	-17.09	68.2	53.02	39.79	16.81	58.51	-	-	P	V
5290MHz		11576	52.21	-21.79	74	53.8	40.05	17.69	59.33	-	-	P	V
		11576	41.52	-12.48	54	43.11	40.05	17.69	59.33	-	-	A	V
		13380	51.3	-22.7	74	53.43	39.6	19.24	60.97	-	-	P	V
		13380	40.75	-13.25	54	42.88	39.6	19.24	60.97	-	-	A	V
		14491	52.24	-21.76	74	51.86	41.63	20.04	61.29	-	-	P	V
		14491	40.47	-13.53	54	40.09	41.63	20.04	61.29	-	-	A	V
		15870	50.74	-23.26	74	53.45	37.23	20.94	60.88	267	144	P	V
		15870	42.42	-11.58	54	45.13	37.23	20.94	60.88	267	144	A	V
		17978	61.07	-12.93	74	46.8	47.5	22.99	56.22	-	-	P	V
		17978	49.67	-4.33	54	35.4	47.5	22.99	56.22	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-2C - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	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		5459.6	61.32	-12.68	74	47.91	32.01	11.48	30.08	248	268	P	H
		5462	60.26	-7.94	68.2	46.84	32.01	11.49	30.08	248	268	P	H
		5459.76	51.82	-2.18	54	38.41	32.01	11.48	30.08	248	268	A	H
	*	5500	120.27	-	-	106.82	32.03	11.52	30.1	248	268	P	H
	*	5500	111.74	-	-	98.29	32.03	11.52	30.1	248	268	A	H
		5457.52	62.71	-11.29	74	49.35	31.96	11.48	30.08	328	327	P	V
		5469.36	68.04	-0.16	68.2	54.67	31.97	11.49	30.09	328	327	P	V
		5457.2	52.65	-1.35	54	39.29	31.96	11.48	30.08	328	327	A	V
	*	5500	121.97	-	-	108.57	31.98	11.52	30.1	328	327	P	V
	*	5500	113.44	-	-	100.04	31.98	11.52	30.1	328	327	A	V
802.11a CH 116 5580MHz		5431.84	54.79	-19.21	74	41.49	31.92	11.46	30.08	244	268	P	H
		5466.88	53.59	-14.61	68.2	40.18	32.01	11.49	30.09	244	268	P	H
		5457.52	46.17	-7.83	54	32.76	32.01	11.48	30.08	244	268	A	H
	*	5580	121.44	-	-	107.94	31.99	11.62	30.11	244	268	P	H
	*	5580	112.71	-	-	99.21	31.99	11.62	30.11	244	268	A	H
		5756.81	55.08	-13.12	68.2	41.25	32.22	11.78	30.17	244	268	P	H
		5441.92	55.39	-18.61	74	42.07	31.93	11.47	30.08	276	353	P	V
		5467.6	54.95	-13.25	68.2	41.59	31.96	11.49	30.09	276	353	P	V
		5390.8	47.29	-6.71	54	34.21	31.73	11.42	30.07	276	353	A	V
	*	5580	123.48	-	-	109.91	32.06	11.62	30.11	276	353	P	V
	*	5580	114.97	-	-	101.4	32.06	11.62	30.11	276	353	A	V
		5732.87	57.76	-10.44	68.2	43.96	32.19	11.78	30.17	276	353	P	V

802.11a CH 140 5700MHz	*	5700	119.4	-	-	105.74	32.04	11.78	30.16	248	78	P	H
	*	5700	111.98	-	-	98.32	32.04	11.78	30.16	248	78	A	H
		5725.08	66.95	-1.25	68.2	53.22	32.12	11.78	30.17	248	78	P	H
	*	5700	121.02	-	-	107.28	32.12	11.78	30.16	266	351	P	V
	*	5700	113.86	-	-	100.12	32.12	11.78	30.16	266	351	A	V
		5727.16	67.22	-0.98	68.2	53.43	32.18	11.78	30.17	266	351	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2C - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	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		11000	57.38	-16.62	74	67.97	40.26	17.17	68.02	378	1	P	H
		11000	49.02	-4.98	54	59.61	40.26	17.17	68.02	378	1	A	H
		13347	51.42	-22.58	74	60.42	39.49	19.21	67.7	-	-	P	H
		13347	41.12	-12.88	54	50.12	39.49	19.21	67.7	-	-	A	H
		14491	52.56	-21.44	74	58.5	41.76	20.04	67.74	-	-	P	H
		14491	42.97	-11.03	54	48.91	41.76	20.04	67.74	-	-	A	H
		16500	49.88	-18.32	68.2	57.95	38.33	21.47	67.87	-	-	P	H
		17945	60.27	-13.73	74	59.7	47.04	22.95	69.42	-	-	P	H
		17945	49.77	-4.23	54	49.2	47.04	22.95	69.42	-	-	A	H
		11000	62.55	-11.45	74	73.12	40.28	17.17	68.02	201	298	P	V
		11000	53.58	-0.42	54	64.15	40.28	17.17	68.02	201	298	A	V
		13358	50.77	-23.23	74	59.7	39.55	19.22	67.7	-	-	P	V
		13358	42.49	-11.51	54	51.42	39.55	19.22	67.7	-	-	A	V
		14491	51.53	-22.47	74	57.6	41.63	20.04	67.74	-	-	P	V
		14491	42.94	-11.06	54	49.01	41.63	20.04	67.74	-	-	A	V
		16500	50.38	-17.82	68.2	58.31	38.47	21.47	67.87	-	-	P	V
		17989	59.73	-14.27	74	58.39	47.76	23	69.42	-	-	P	V
		17989	49.63	-4.37	54	48.29	47.76	23	69.42	-	-	A	V

WIFI	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)
		11160	59.56	-14.44	74	70.22	39.91	17.31	67.88	400	1	P	H
		11160	49.75	-4.25	54	60.41	39.91	17.31	67.88	400	1	A	H
		13336	49.9	-24.1	74	58.95	39.45	19.21	67.71	-	-	P	H
		13336	42.61	-11.39	54	51.66	39.45	19.21	67.71	-	-	A	H
		14491	51.88	-22.12	74	57.82	41.76	20.04	67.74	-	-	P	H
		14491	42.5	-11.5	54	48.44	41.76	20.04	67.74	-	-	A	H
		16740	49.65	-18.55	68.2	57.06	39.22	21.68	68.31	-	-	P	H
		18000	60.82	-13.18	74	58.8	48.43	23.01	69.42	-	-	P	H
		18000	50.62	-3.38	54	48.6	48.43	23.01	69.42	-	-	A	H
802.11a													
CH 116		11160	61.45	-12.55	74	72.12	39.9	17.31	67.88	255	35	P	V
5580MHz		11160	53.48	-0.52	54	64.15	39.9	17.31	67.88	255	35	A	V
		13369	51.03	-22.97	74	59.92	39.57	19.23	67.69	-	-	P	V
		13369	42.47	-11.53	54	51.36	39.57	19.23	67.69	-	-	A	V
		14491	52.61	-21.39	74	58.68	41.63	20.04	67.74	-	-	P	V
		14491	43.04	-10.96	54	49.11	41.63	20.04	67.74	-	-	A	V
		16740	50.32	-17.88	68.2	57.73	39.22	21.68	68.31	-	-	P	V
		17967	60	-14	74	59.2	47.25	22.97	69.42	-	-	P	V
		17967	49.6	-4.4	54	48.8	47.25	22.97	69.42	-	-	A	V

WIFI	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)
		11400	59.65	-14.35	74	69.7	40.1	17.53	67.68	314	349	P	H
		11400	50.5	-3.5	54	60.55	40.1	17.53	67.68	314	349	A	H
		13336	50.05	-23.95	74	59.1	39.45	19.21	67.71	-	-	P	H
		13336	41.98	-12.02	54	51.03	39.45	19.21	67.71	-	-	A	H
		14491	51.98	-22.02	74	57.92	41.76	20.04	67.74	-	-	P	H
		14491	42.85	-11.15	54	48.79	41.76	20.04	67.74	-	-	A	H
		17100	49.82	-18.38	68.2	57.3	39.4	22.02	68.9	-	-	P	H
		17967	60.44	-13.56	74	59.3	47.59	22.97	69.42	-	-	P	H
		17967	49.94	-4.06	54	48.8	47.59	22.97	69.42	-	-	A	H
802.11a CH 140 5700MHz													
		11400	61.02	-12.98	74	71.1	40.07	17.53	67.68	295	121	P	V
		11400	53.45	-0.55	54	63.53	40.07	17.53	67.68	295	121	A	V
		13358	50.05	-23.95	74	58.98	39.55	19.22	67.7	-	-	P	V
		13358	43.1	-10.9	54	52.03	39.55	19.22	67.7	-	-	A	V
		14491	51.74	-22.26	74	57.81	41.63	20.04	67.74	-	-	P	V
		14491	43.05	-10.95	54	49.12	41.63	20.04	67.74	-	-	A	V
		17100	49.95	-18.25	68.2	57.27	39.56	22.02	68.9	-	-	P	V
		17989	59.63	-14.37	74	58.29	47.76	23	69.42	-	-	P	V
		17989	49.83	-4.17	54	48.49	47.76	23	69.42	-	-	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

UNII-2C - 5470~5725MHz

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

WIFI	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)
		5450	56.25	-17.75	74	42.85	32	11.48	30.08	261	325	P	H
		5469.84	66.73	-1.47	68.2	53.32	32.01	11.49	30.09	261	325	P	H
		5451.92	49.04	-4.96	54	35.64	32	11.48	30.08	261	325	A	H
	*	5500	119.96	-	-	106.51	32.03	11.52	30.1	261	325	P	H
802.11ax	*	5500	109.5	-	-	96.05	32.03	11.52	30.1	261	325	A	H
HE20 Full													
CH 100		5457.2	59.25	-14.75	74	45.89	31.96	11.48	30.08	279	352	P	V
5500MHz		5468.88	67.6	-0.6	68.2	54.24	31.96	11.49	30.09	279	352	P	V
		5457.04	52.73	-1.27	54	39.37	31.96	11.48	30.08	279	352	A	V
	*	5500	123.5	-	-	110.1	31.98	11.52	30.1	279	352	P	V
	*	5500	112.74	-	-	99.34	31.98	11.52	30.1	279	352	A	V
		5443.36	55.45	-18.55	74	42.09	31.97	11.47	30.08	256	32	P	H
		5461.6	53.68	-14.52	68.2	40.26	32.01	11.49	30.08	256	32	P	H
		5382.64	45.95	-8.05	54	32.9	31.7	11.42	30.07	256	32	A	H
	*	5580	123.46	-	-	109.96	31.99	11.62	30.11	256	32	P	H
802.11ax	*	5580	114.74	-	-	101.24	31.99	11.62	30.11	256	32	A	H
HE20 Full		5745.47	54.8	-13.4	68.2	41.01	32.18	11.78	30.17	256	32	P	H
CH 116		5385.52	55	-19	74	41.95	31.7	11.42	30.07	310	331	P	V
5580MHz		5465.2	54.4	-13.8	68.2	41.04	31.96	11.49	30.09	310	331	P	V
		5384.8	47.12	-6.88	54	34.07	31.7	11.42	30.07	310	331	A	V
	*	5580	123.15	-	-	109.58	32.06	11.62	30.11	310	331	P	V
	*	5580	114.84	-	-	101.27	32.06	11.62	30.11	310	331	A	V
		5734.13	55.51	-12.69	68.2	41.7	32.2	11.78	30.17	310	331	P	V

	*	5700	121.58	-	-	107.92	32.04	11.78	30.16	261	178	P	H
	*	5700	109.93	-	-	96.27	32.04	11.78	30.16	261	178	A	H
		5726.6	60.41	-7.79	68.2	46.68	32.12	11.78	30.17	261	178	P	H
802.11ax													
HE20 Full													
CH 140	*	5700	124.46	-	-	110.72	32.12	11.78	30.16	271	351	P	V
5700MHz	*	5700	113.35	-	-	99.61	32.12	11.78	30.16	271	351	A	V
		5727.08	66.44	-1.76	68.2	52.65	32.18	11.78	30.17	271	351	P	V

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

UNII-2C 5470~5725MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI	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)
		11000	56.96	-17.04	74	67.55	40.26	17.17	68.02	391	1	P	H
		11000	47.62	-6.38	54	58.21	40.26	17.17	68.02	391	1	A	H
		13347	50.66	-23.34	74	59.66	39.49	19.21	67.7	-	-	P	H
		13347	43	-11	54	52	39.49	19.21	67.7	-	-	A	H
		14491	52.08	-21.92	74	58.02	41.76	20.04	67.74	-	-	P	H
		14491	43.94	-10.06	54	49.88	41.76	20.04	67.74	-	-	A	H
		16500	49.48	-18.72	68.2	57.55	38.33	21.47	67.87	-	-	P	H
		18000	60.62	-13.38	74	58.6	48.43	23.01	69.42	-	-	P	H
		18000	50.72	-3.28	54	48.7	48.43	23.01	69.42	-	-	A	H
802.11ax													
HE20 Full													
CH 100		11000	59.86	-14.14	74	70.43	40.28	17.17	68.02	200	298	P	V
5500MHz		11000	52.08	-1.92	54	62.65	40.28	17.17	68.02	200	298	A	V
		13347	50.79	-23.21	74	59.77	39.51	19.21	67.7	-	-	P	V
		13347	42.8	-11.2	54	51.78	39.51	19.21	67.7	-	-	A	V
		14491	51.59	-22.41	74	57.66	41.63	20.04	67.74	-	-	P	V
		14491	42.84	-11.16	54	48.91	41.63	20.04	67.74	-	-	A	V
		16500	49.48	-18.72	68.2	57.41	38.47	21.47	67.87	-	-	P	V
		17945	59.78	-14.22	74	59.5	46.75	22.95	69.42	-	-	P	V
		17945	49.38	-4.62	54	49.1	46.75	22.95	69.42	-	-	A	V

WIFI	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)
		11160	57.49	-16.51	74	68.15	39.91	17.31	67.88	400	0	P	H
		11160	49.6	-4.4	54	60.26	39.91	17.31	67.88	400	0	A	H
		13391	50.22	-23.78	74	59.01	39.64	19.25	67.68	-	-	P	H
		13391	43.42	-10.58	54	52.21	39.64	19.25	67.68	-	-	A	H
		14491	51.96	-22.04	74	57.9	41.76	20.04	67.74	-	-	P	H
		14491	43.62	-10.38	54	49.56	41.76	20.04	67.74	-	-	A	H
		16740	49.85	-18.35	68.2	57.26	39.22	21.68	68.31	-	-	P	H
		17956	60.55	-13.45	74	59.71	47.3	22.96	69.42	-	-	P	H
		17956	50.35	-3.65	54	49.51	47.3	22.96	69.42	-	-	A	H
802.11ax													
HE20 Full													
CH 116		11160	62.15	-11.85	74	72.82	39.9	17.31	67.88	267	35	P	V
5580MHz		11160	53.27	-0.73	54	63.94	39.9	17.31	67.88	267	35	A	V
		13336	49.13	-24.87	74	58.17	39.46	19.21	67.71	-	-	P	V
		13336	42.69	-11.31	54	51.73	39.46	19.21	67.71	-	-	A	V
		14491	51.74	-22.26	74	57.81	41.63	20.04	67.74	-	-	P	V
		14491	42.92	-11.08	54	48.99	41.63	20.04	67.74	-	-	A	V
		16740	49.81	-18.39	68.2	57.22	39.22	21.68	68.31	-	-	P	V
		17989	60.53	-13.47	74	59.19	47.76	23	69.42	-	-	P	V
		17989	50.43	-3.57	54	49.09	47.76	23	69.42	-	-	A	V