

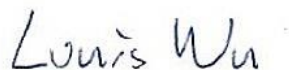


FCC RADIO TEST REPORT

FCC ID : 2AFZZK2G
Equipment : Mobile Phone
Brand Name : Xiaomi
Model Name : M2011K2G
Applicant : Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Manufacturer : Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Standard : FCC Part 15 Subpart E §15.407

The product was received on Nov. 10, 2020 and testing was started from Nov. 16, 2020 and completed on Dec. 10, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	6
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	9
2.3 Connection Diagram of Test System.....	11
2.4 Support Unit used in test configuration and system	11
2.5 EUT Operation Test Setup	12
2.6 Measurement Results Explanation Example.....	12
3 Test Result	13
3.1 26dB & 99% Occupied Bandwidth Measurement	13
3.2 Maximum Conducted Output Power Measurement	16
3.3 Power Spectral Density Measurement	18
3.4 Unwanted Emissions Measurement.....	21
3.5 AC Conducted Emission Measurement.....	26
3.6 Automatically Discontinue Transmission	28
3.7 Antenna Requirements.....	29
4 List of Measuring Equipment.....	30
5 Uncertainty of Evaluation	32
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	
Appendix F. Setup Photographs	



History of this test report

Report No.	Version	Description	Issued Date
FR0N0303F	01	Initial issue of report	Dec. 17, 2020
FR0N0303F	02	Revise Appendix A data	Dec. 18, 2020

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	Under limit 10.15 dB at 36.790 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 14.29 dB at 0.503 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Tina Chuang

1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, WPC/WPT, and GNSS.

Product Specification subjective to this standard	
Sample 1	Memory (8+256GB)
Sample 2	Memory (8+128GB)
Antenna Type	WWAN: PIFA Antenna WLAN <2400 MHz ~ 2483.5 MHz> <Ant. 5>: PIFA Antenna <Ant. 7>: PIFA Antenna <5150 MHz ~ 5850 MHz> <Ant. 8>: PIFA Antenna <Ant. 10>: PIFA Antenna Bluetooth <Ant. 5>: PIFA Antenna <Ant. 7>: PIFA Antenna GPS / Glonass / Galileo / BDS: PIFA Antenna NFC: planar Antenna WPC/WPT: Coil antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 8: -2.58 Ant. 10: 1.38
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 8: -0.03 Ant. 10: 1.38
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 8: -0.03 Ant. 10: 0.27

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH05-HY, CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH13-HY

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

FCC designation No.: TW1190 and TW0007

1.4 Applicable Standards

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

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

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z and WPC Charging Mode. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
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 in "*" were 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80 and 802.11ax HE80.
3. The above Frequency and Channel in "@ " were 802.11ac VHT160 and 802.11ax HE160.

2.2 Test Mode

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

MIMO Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + USB Cable (Charging from Adapter) for Sample 1
Remark: For Radiated Test Cases, the tests were performed with Sample 1.	

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

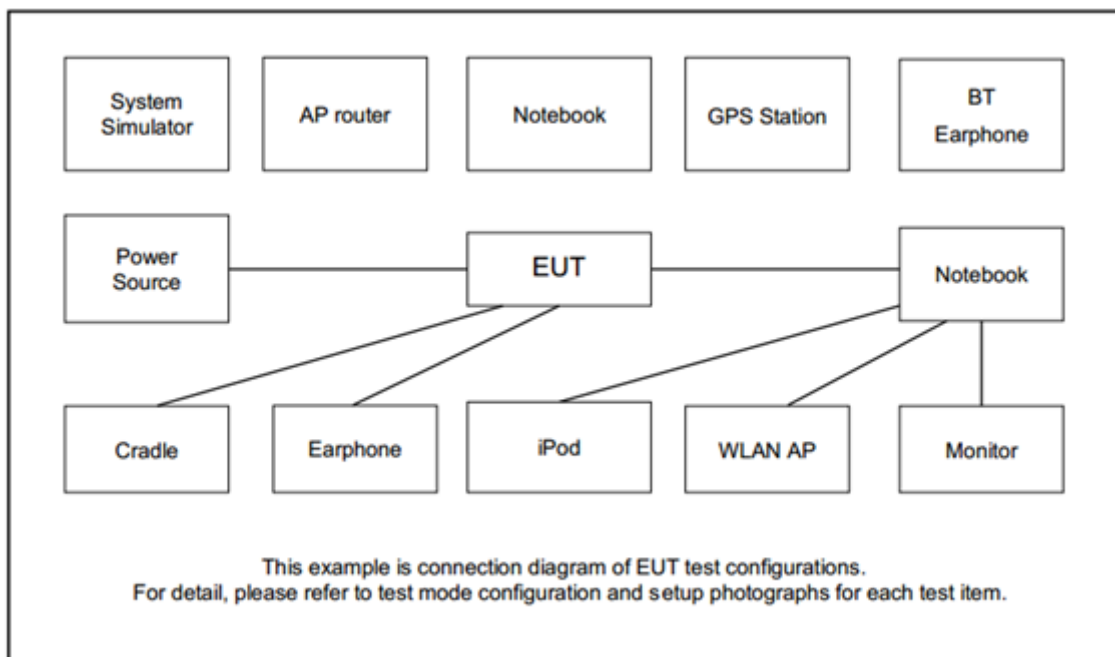
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

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	5150-5250 MHz		5470-5725MHz
	802.11ax HE160		802.11ax HE160
Ch. #	50		114

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	Mobile Phone	xlaomi	K2	M2011K2G	N/A	N/A
4.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m



2.5 EUT Operation Test Setup

The RF test items 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 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

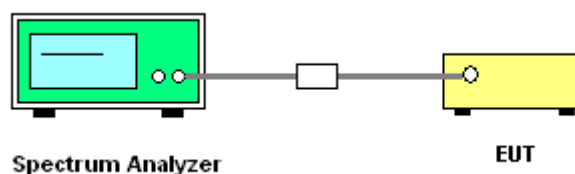
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

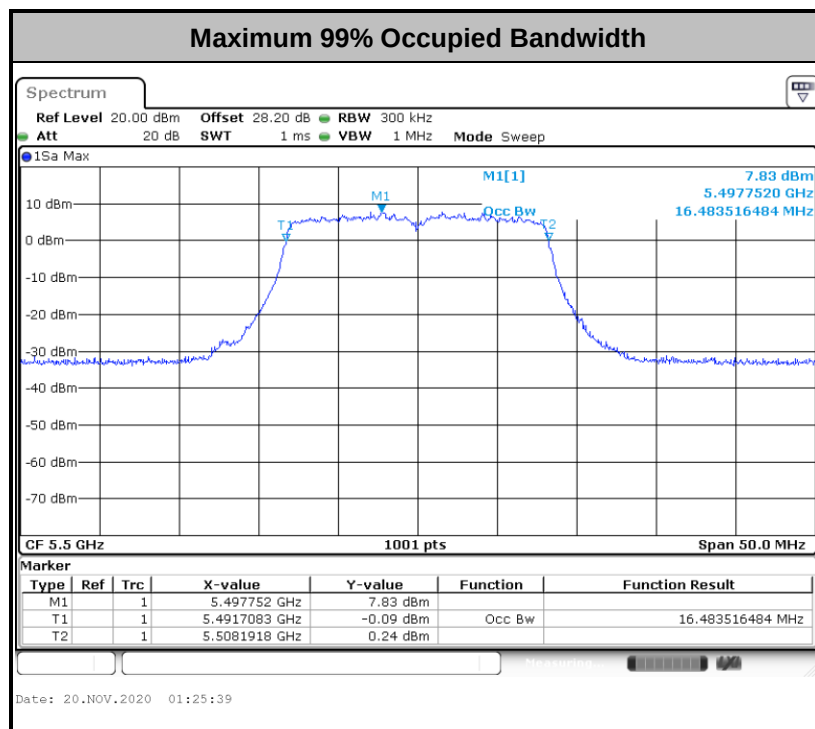
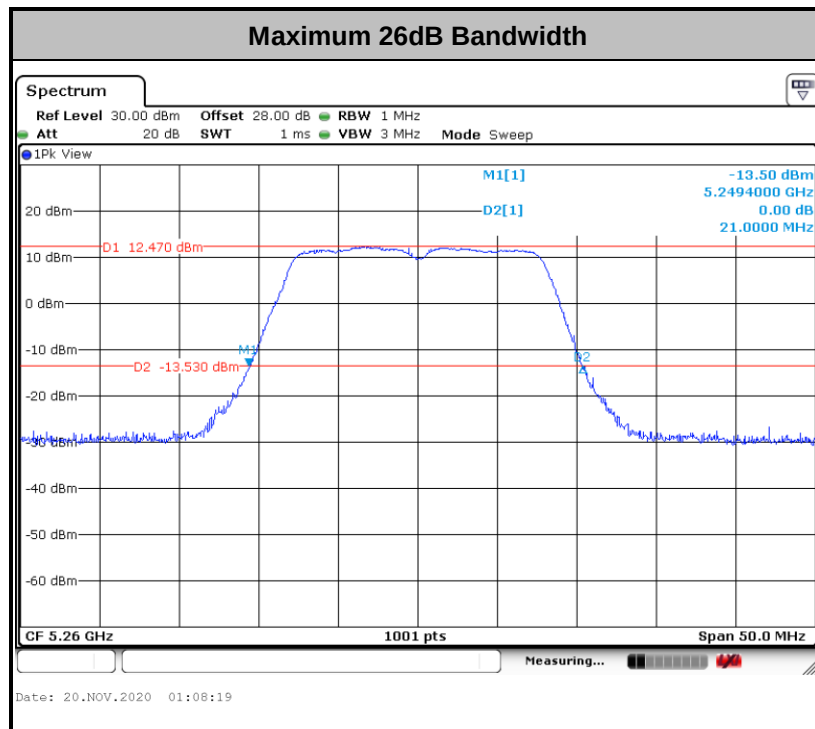
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

3.1.4 Test Setup



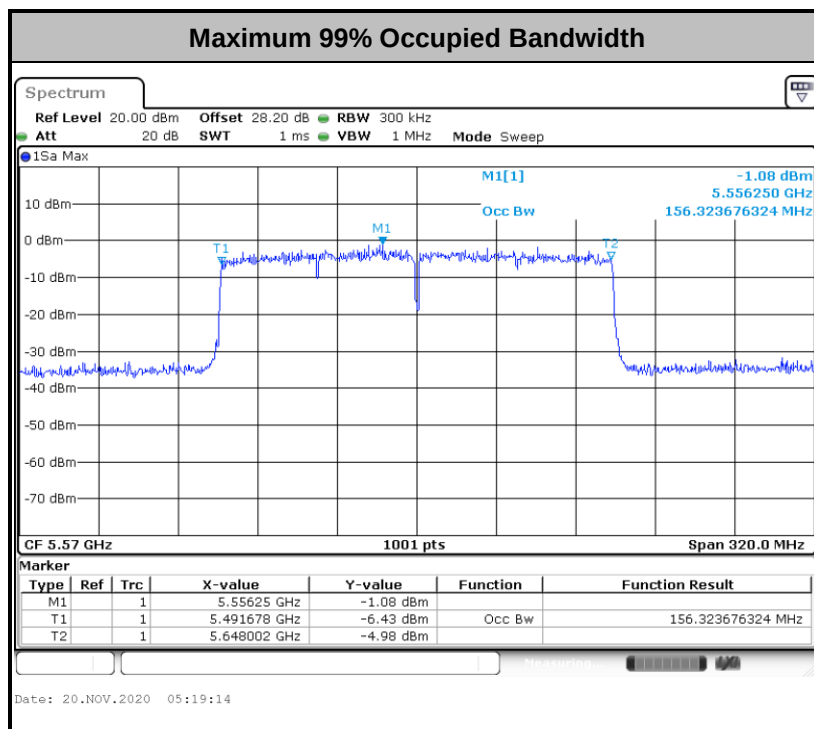
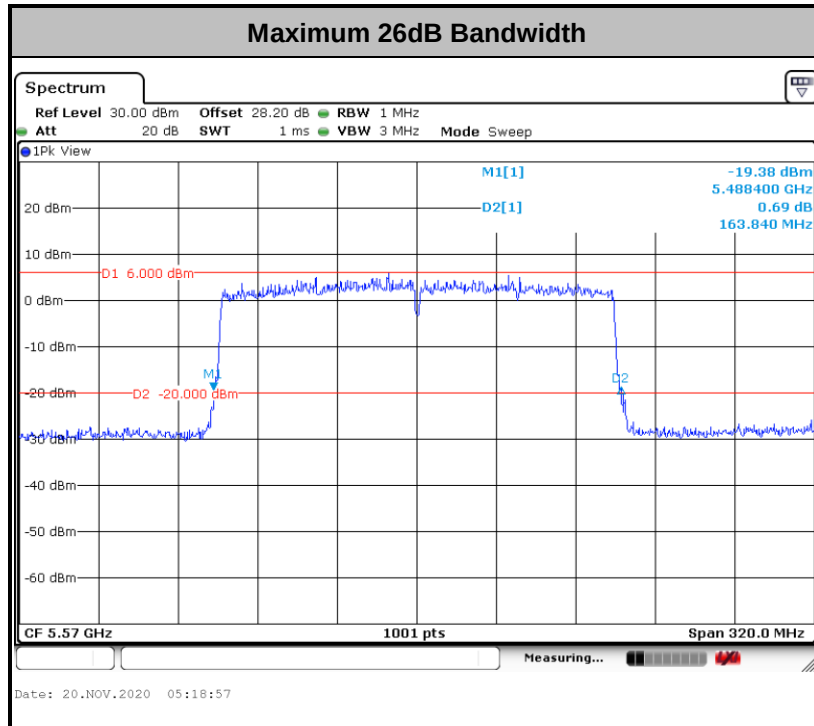
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



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

<For 802.11ax Mode>



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For 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 $11 \text{ dBm} + 10 \log B$, 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

See list of measuring equipment of this test report.

3.2.3 Test Procedures

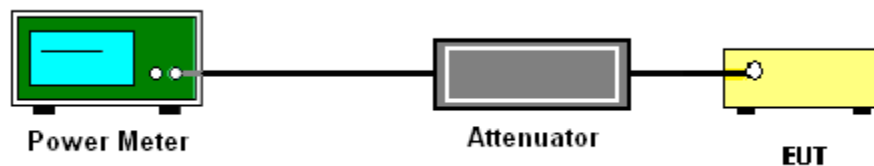
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

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

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

Method SA-3

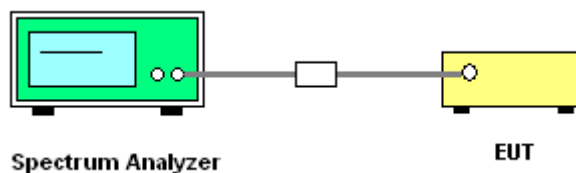
(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ 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.
Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PSD 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.

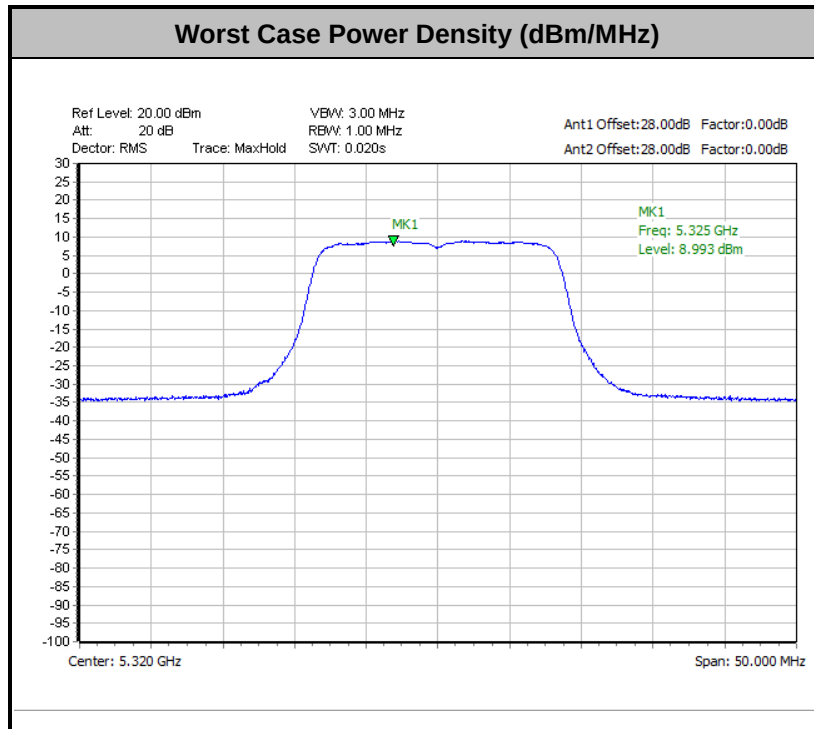
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of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

3.3.4 Test Setup

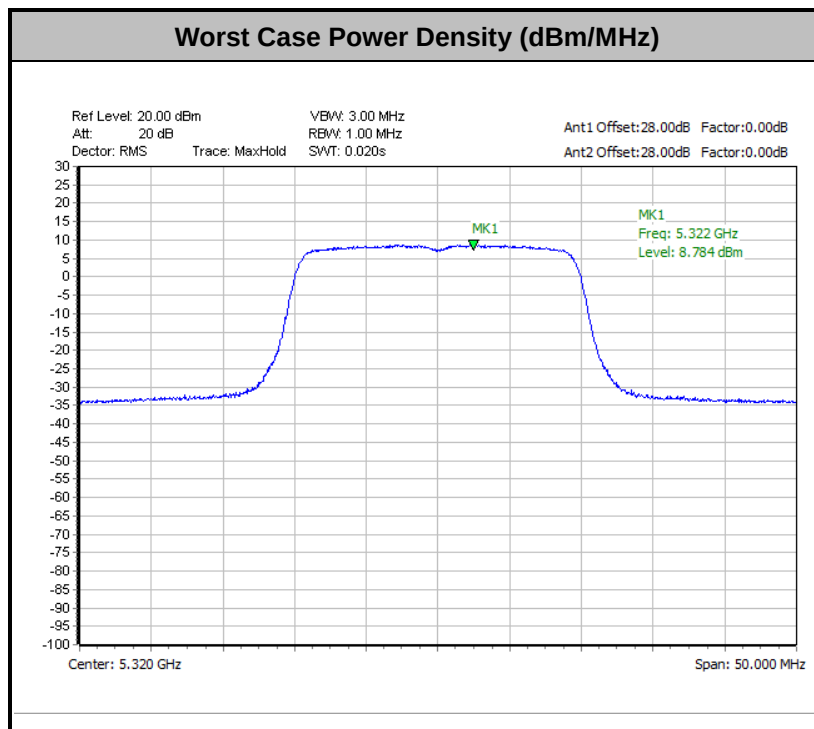


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



<For 802.11ax Mode>



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 fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

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

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

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

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

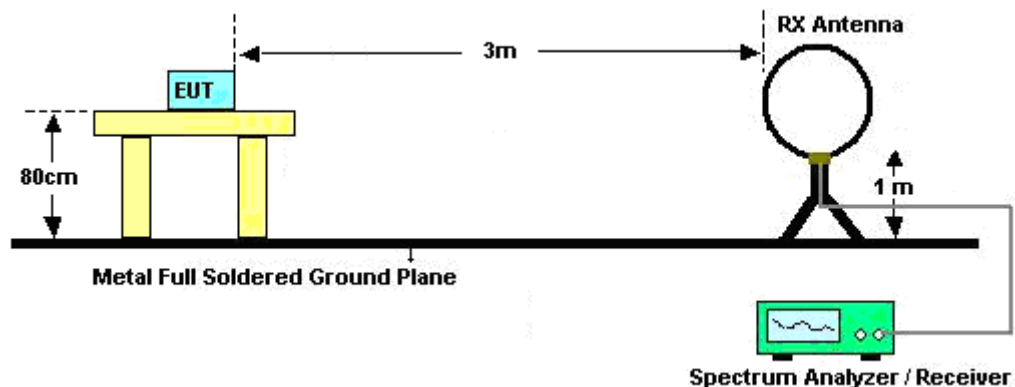
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

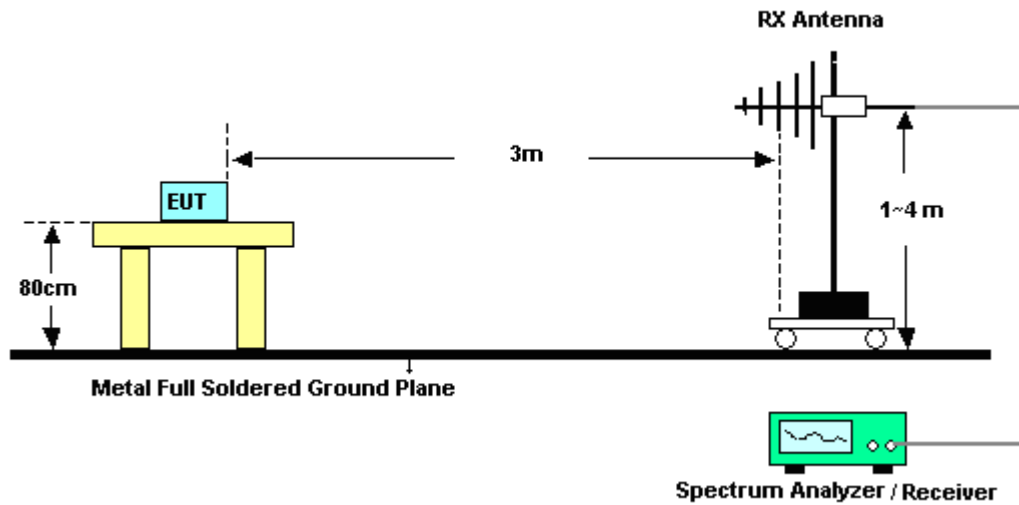
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

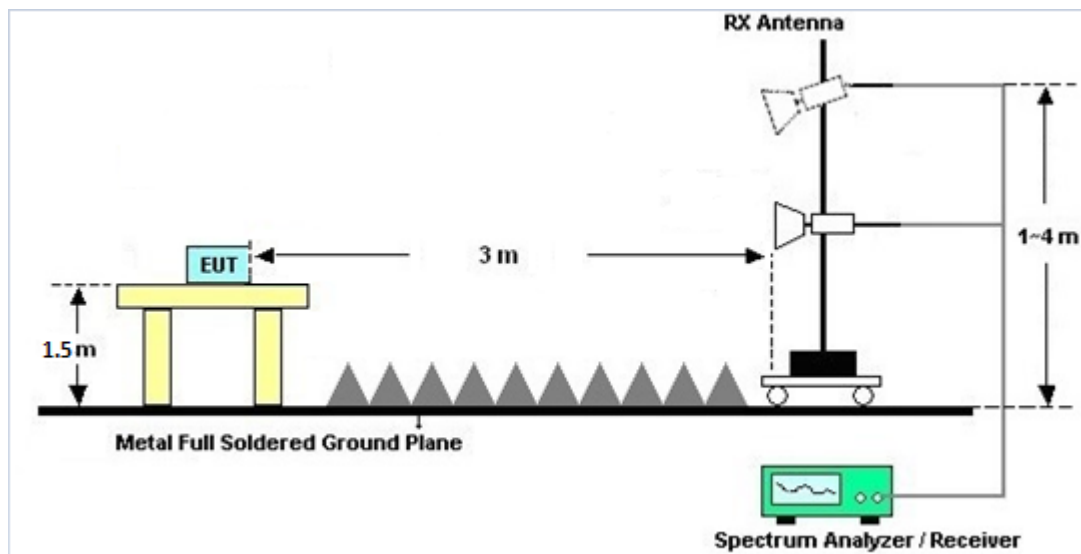
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



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

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

There is a comparison data of both open-field test site and 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 (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

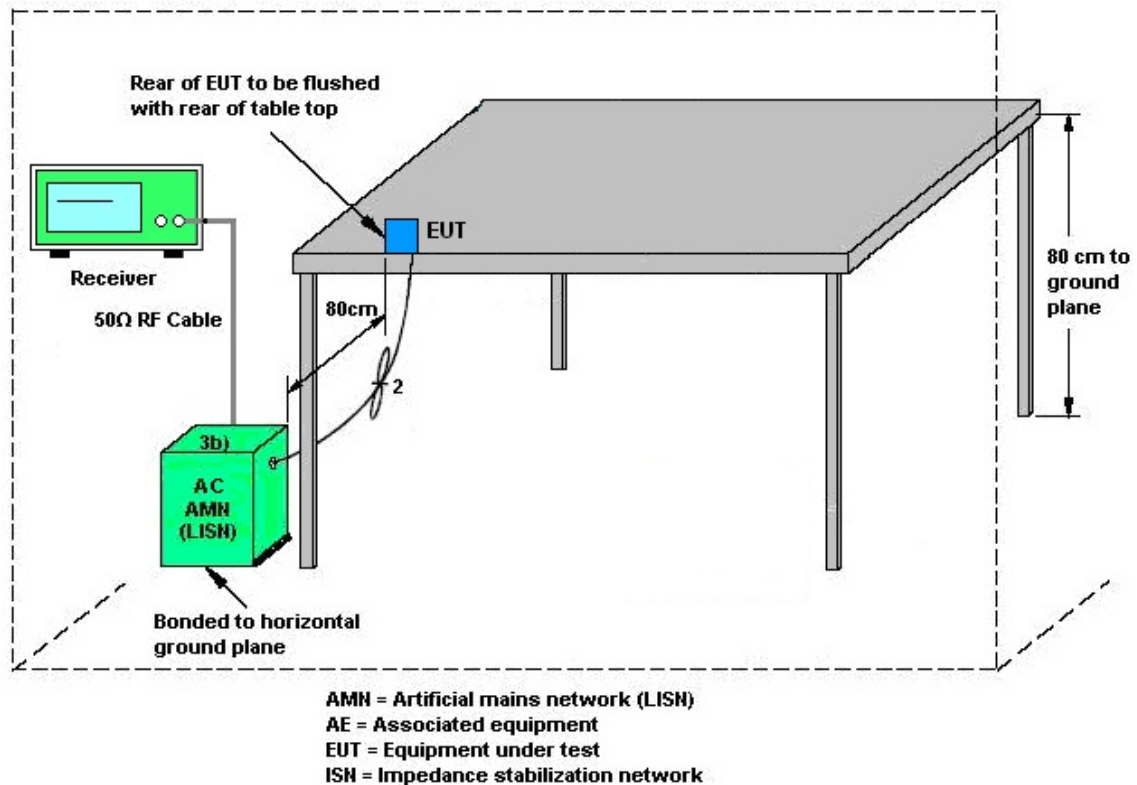
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

Array Gain = $10 \log(\text{NANT}/\text{NSS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 8	Ant. 10	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	-2.58	1.38	1.38	2.63	0.00	0.00
Band II	-0.03	1.38	1.38	3.71	0.00	0.00
Band III	-0.03	0.27	0.27	3.13	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jul. 13, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-124 1	1GHz~18GHz	Jul. 15, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jul. 14, 2021	Radiation (03CH13-HY)
Hygrometer	TECEPIL	DTM-303B	TP150115	N/A	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Nov. 16, 2020~ Dec. 10, 2020	May 18, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Oct. 28, 2020	Nov. 16, 2020~ Dec. 10, 2020	Oct. 27, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 20, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 19, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz~40GHz	Mar. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30MHz~18GHz	Feb. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY532900 45	20MHz~8.4GHz	Jan. 18, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jan. 17, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 576	18GHz~40GHz	May 22, 2020	Nov. 16, 2020~ Dec. 10, 2020	May 21, 2021	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	0600789	18GHz~40GHz	Jul. 31, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jul. 30, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN5	6.75GHz High Pass Filter	Mar. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN12	1.53GHz Low Pass Filter	Sep. 15, 2020	Nov. 16, 2020~ Dec. 10, 2020	Sep. 14, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN2	3GHz High Pass Filter	Jul. 13, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jul. 12, 2021	Radiation (03CH13-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 18, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	Nov. 18, 2020	Sep. 10, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Nov. 18, 2020	Nov. 19, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 18, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Nov. 18, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Nov. 18, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Nov. 18, 2020	Nov. 17, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 13, 2020~ Dec. 05, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Nov. 13, 2020~ Dec. 05, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Nov. 13, 2020~ Dec. 05, 2020	Jul. 21, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Nov. 13, 2020~ Dec. 05, 2020	Mar. 16, 2021	Conducted (TH05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3
---	-----

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8
---	-----

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8
---	-----

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2020/11/13~12/5	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	
11a	6Mbps	2	36	5180	16.43	16.38	20.95	20.55	-	-	22.14	22.14	
11a	6Mbps	2	44	5220	16.38	16.33	20.85	20.40	-	-	22.13	22.13	
11a	6Mbps	2	48	5240	16.38	16.33	20.90	20.45	-	-	22.13	22.13	

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	
11a	6Mbps	2	52	5260	16.38	16.33	21.00	20.50	23.13		29.13		23.98		
11a	6Mbps	2	60	5300	16.38	16.33	21.00	20.40	23.13		29.13		23.98		
11a	6Mbps	2	64	5320	16.38	16.33	21.00	20.40	23.13		29.13		23.98		

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10
11a	6Mbps	2	100	5500	16.48	16.33	20.90	20.40	23.13		29.13		23.98		----	----
11a	6Mbps	2	116	5580	16.43	16.33	20.90	20.45	23.13		29.13		23.98		----	----
11a	6Mbps	2	140	5700	16.43	16.33	20.85	20.50	23.13		29.13		23.98		----	----

Band III straddle channel MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10
11a	6Mbps	2	144	5720	7.30	3.15	15.55	15.15	15.99		21.99		22.80		3.15	3.15

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10	
11a	6Mbps	2	36	5180	5.02	5.96	8.45	11.00		2.63		Pass
11a	6Mbps	2	44	5220	5.26	6.41	8.66	11.00		2.63		Pass
11a	6Mbps	2	48	5240	5.23	6.33	8.71	11.00		2.63		Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
11a	6Mbps	2	52	5260	5.13	6.22	8.57	11.00		3.71			Pass
11a	6Mbps	2	60	5300	5.19	6.54	8.83	11.00		3.71			Pass
11a	6Mbps	2	64	5320	5.28	6.73	8.99	11.00		3.71			Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
11a	6Mbps	2	100	5500	5.33	5.59	8.45	11.00		3.13			Pass
11a	6Mbps	2	116	5580	5.39	5.72	8.43	11.00		3.13			Pass
11a	6Mbps	2	140	5700	5.00	5.61	8.07	11.00		3.13			Pass

Band III straddle channel MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10	
11a	6Mbps	2	144	5720	4.85	5.81	8.15	11.00		3.13		Pass

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10	
11a	6Mbps	2	36	5180	16.60	17.10	19.87	24.00		1.38		Pass
11a	6Mbps	2	44	5220	16.80	17.50	20.17	24.00		1.38		Pass
11a	6Mbps	2	48	5240	16.80	17.40	20.12	24.00		1.38		Pass
HT20	MCS0	2	36	5180	16.60	17.10	19.87	24.00		1.38		Pass
HT20	MCS0	2	44	5220	16.60	17.20	19.92	24.00		1.38		Pass
HT20	MCS0	2	48	5240	16.60	17.30	19.97	24.00		1.38		Pass
HT40	MCS0	2	38	5190	16.30	16.80	19.57	24.00		1.38		Pass
HT40	MCS0	2	46	5230	16.40	16.90	19.67	24.00		1.38		Pass
VHT20	MCS0	2	36	5180	16.60	17.10	19.87	24.00		1.38		Pass
VHT20	MCS0	2	44	5220	16.60	17.20	19.92	24.00		1.38		Pass
VHT20	MCS0	2	48	5240	16.60	17.30	19.97	24.00		1.38		Pass
VHT40	MCS0	2	38	5190	16.30	16.80	19.57	24.00		1.38		Pass
VHT40	MCS0	2	46	5230	16.40	16.90	19.67	24.00		1.38		Pass
VHT80	MCS0	2	42	5210	16.30	16.80	19.57	24.00		1.38		Pass
VHT160	MCS0	2	50	5250	15.40	15.80	18.61	24.00		1.38		Pass

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
11a	6Mbps	2	52	5260	16.60	17.50	20.08	23.98		1.38		26.99	Pass
11a	6Mbps	2	60	5300	16.70	17.70	20.24	23.98		1.38		26.99	Pass
11a	6Mbps	2	64	5320	16.80	17.90	20.40	23.98		1.38		26.99	Pass
HT20	MCS0	2	52	5260	16.40	17.20	19.83	23.98		1.38		26.99	Pass
HT20	MCS0	2	60	5300	16.60	17.60	20.14	23.98		1.38		26.99	Pass
HT20	MCS0	2	64	5320	16.60	17.80	20.25	23.98		1.38		26.99	Pass
HT40	MCS0	2	54	5270	16.20	16.90	19.57	23.98		1.38		26.99	Pass
HT40	MCS0	2	62	5310	16.20	17.20	19.74	23.98		1.38		26.99	Pass
VHT20	MCS0	2	52	5260	16.40	17.20	19.83	23.98		1.38		26.99	Pass
VHT20	MCS0	2	60	5300	16.60	17.60	20.14	23.98		1.38		26.99	Pass
VHT20	MCS0	2	64	5320	16.60	17.80	20.25	23.98		1.38		26.99	Pass
VHT40	MCS0	2	54	5270	16.20	16.90	19.57	23.98		1.38		26.99	Pass
VHT40	MCS0	2	62	5310	16.20	17.20	19.74	23.98		1.38		26.99	Pass
VHT80	MCS0	2	58	5290	16.20	17.10	19.68	23.98		1.38		26.99	Pass

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
11a	6Mbps	2	100	5500	16.70	16.90	19.81	23.98		0.27		26.99	Pass
11a	6Mbps	2	116	5580	17.10	17.00	20.06	23.98		0.27		26.99	Pass
11a	6Mbps	2	140	5700	16.50	17.00	19.77	23.98		0.27		26.99	Pass
HT20	MCS0	2	100	5500	16.70	16.80	19.76	23.98		0.27		26.99	Pass
HT20	MCS0	2	116	5580	16.90	16.90	19.91	23.98		0.27		26.99	Pass
HT20	MCS0	2	140	5700	16.30	16.90	19.62	23.98		0.27		26.99	Pass
HT40	MCS0	2	102	5510	16.40	16.40	19.41	23.98		0.27		26.99	Pass
HT40	MCS0	2	110	5550	16.50	16.70	19.61	23.98		0.27		26.99	Pass
HT40	MCS0	2	134	5670	16.60	16.60	19.61	23.98		0.27		26.99	Pass
VHT20	MCS0	2	100	5500	16.70	16.80	19.76	23.98		0.27		26.99	Pass
VHT20	MCS0	2	116	5580	16.90	16.90	19.91	23.98		0.27		26.99	Pass
VHT20	MCS0	2	140	5700	16.30	16.90	19.62	23.98		0.27		26.99	Pass
VHT40	MCS0	2	102	5510	16.40	16.40	19.41	23.98		0.27		26.99	Pass
VHT40	MCS0	2	110	5550	16.50	16.70	19.61	23.98		0.27		26.99	Pass
VHT40	MCS0	2	134	5670	16.60	16.60	19.61	23.98		0.27		26.99	Pass
VHT80	MCS0	2	106	5530	16.50	16.40	19.46	23.98		0.27		26.99	Pass
VHT80	MCS0	2	122	5610	16.50	16.50	19.51	23.98		0.27		26.99	Pass
VHT160	MCS0	2	114	5570	15.30	15.50	18.41	23.98		0.27		26.99	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
11a	6Mbps	2	144	5720	16.60	17.10	19.87	22.80		0.27		26.99	Pass
HT20	MCS0	2	144	5720	16.40	16.90	19.67	23.98		0.27		26.99	Pass
HT40	MCS0	2	142	5710	16.00	16.40	19.21	23.98		0.27		26.99	Pass
VHT20	MCS0	2	144	5720	16.40	16.90	19.67	23.98		0.27		26.99	Pass
VHT40	MCS0	2	142	5710	16.00	16.40	19.21	23.98		0.27		26.99	Pass
VHT80	MCS0	2	138	5690	16.20	16.50	19.36	23.98		0.27		26.99	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	
HE20	MCS0	2	36	5180	Full	18.93	18.93	22.65	22.50	-	-	22.77	-	
HE20	MCS0	2	44	5220	Full	18.93	18.98	22.60	22.75	-	-	22.77	-	
HE20	MCS0	2	48	5240	Full	18.93	18.93	22.65	22.65	-	-	22.77	-	
HE40	MCS0	2	38	5190	Full	37.96	37.96	41.67	41.49	-	-	23.01	-	
HE40	MCS0	2	46	5230	Full	37.96	37.96	41.58	41.49	-	-	23.01	-	
HE80	MCS0	2	42	5210	Full	78.04	78.16	82.88	82.40	-	-	23.01	-	
HE160	MCS0	2	50	5250	Full	156.32	156.32	163.52	163.84	-	-	23.01	-	

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO																
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	
HE20	MCS0	2	52	5260	Full	18.93	18.93	22.70	22.55	23.77		29.77		23.98		
HE20	MCS0	2	60	5300	Full	18.93	18.93	22.80	22.75	23.77		29.77		23.98		
HE20	MCS0	2	64	5320	Full	18.98	18.93	22.50	22.85	23.77		29.77		23.98		
HE40	MCS0	2	54	5270	Full	37.86	37.86	41.49	41.49	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.96	37.96	41.49	41.85	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	78.16	78.16	82.40	82.72	23.98		30.00		23.98		

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10
HE20	MCS0	2	100	5500	Full	18.93	18.93	22.50	22.80	23.77		29.77		23.98		----	----
HE20	MCS0	2	116	5580	Full	18.93	18.98	22.65	22.65	23.77		29.77		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.98	18.93	22.45	22.55	23.77		29.77		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.86	38.06	41.58	41.31	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	37.96	37.96	41.49	41.49	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	38.06	37.96	41.76	41.49	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	78.16	78.16	82.24	82.24	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	78.16	78.16	82.40	82.24	23.98		30.00		23.98		----	----
HE160	MCS0	2	114	5570	Full	156.00	156.32	163.84	163.84	23.98		30.00		23.98		----	----

Band III straddle channel MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10
HE20	MCS0	2	144	5720	Full	14.50	14.50	16.20	16.20	22.61		28.61		23.10		4.3	4.4
HE40	MCS0	2	142	5710	Full	33.99	33.99	35.97	35.70	23.98		30.00		23.98		3.72	3.18
HE80	MCS0	2	138	5690	Full	74.21	73.97	76.28	76.12	23.98		30.00		23.98		3.4	3.88

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
HE20	MCS0	2	36	5180	Full	16.70	17.20	19.97	24.00		1.38			Pass
HE20	MCS0	2	36	5180	26/0	5.80	5.50	8.66	24.00		1.38			Pass
HE20	MCS0	2	36	5180	52/37	9.50	10.20	12.87	24.00		1.38			Pass
HE20	MCS0	2	36	5180	106/53	12.40	13.40	15.94	24.00		1.38			Pass
HE20	MCS0	2	44	5220	Full	16.70	17.30	20.02	24.00		1.38			Pass
HE20	MCS0	2	44	5220	26/4	7.60	8.40	11.03	24.00		1.38			Pass
HE20	MCS0	2	44	5220	52/39	9.70	10.30	13.02	24.00		1.38			Pass
HE20	MCS0	2	44	5220	106/53	12.50	13.30	15.93	24.00		1.38			Pass
HE20	MCS0	2	48	5240	Full	16.70	17.40	20.07	24.00		1.38			Pass
HE20	MCS0	2	48	5240	26/8	5.80	5.30	8.57	24.00		1.38			Pass
HE20	MCS0	2	48	5240	52/40	9.40	10.10	12.77	24.00		1.38			Pass
HE20	MCS0	2	48	5240	106/54	12.80	13.30	16.07	24.00		1.38			Pass
HE40	MCS0	2	38	5190	Full	16.40	16.90	19.67	24.00		1.38			Pass
HE40	MCS0	2	38	5190	242/61	12.90	13.80	16.38	24.00		1.38			Pass
HE40	MCS0	2	46	5230	Full	16.50	17.00	19.77	24.00		1.38			Pass
HE40	MCS0	2	46	5230	242/62	12.90	13.70	16.33	24.00		1.38			Pass
HE80	MCS0	2	42	5210	Full	16.40	16.90	19.67	24.00		1.38		Pass	
HE80	MCS0	2	42	5210	484/65	10.90	11.40	14.17	24.00		1.38		Pass	
HE160	MCS0	2	50	5250	Full	15.50	15.90	18.71	24.00		1.38		Pass	

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
HE20	MCS0	2	52	5260	Full	16.50	17.30	19.93	23.98		1.38		26.99	Pass
HE20	MCS0	2	52	5260	26/0	6.30	5.90	9.11	23.98		1.38		26.99	Pass
HE20	MCS0	2	52	5260	52/37	9.50	10.30	12.93	23.98		1.38		26.99	Pass
HE20	MCS0	2	52	5260	106/53	12.70	13.40	16.07	23.98		1.38		26.99	Pass
HE20	MCS0	2	60	5300	Full	16.70	17.70	20.24	23.98		1.38		26.99	Pass
HE20	MCS0	2	60	5300	26/4	7.50	9.00	11.32	23.98		1.38		26.99	Pass
HE20	MCS0	2	60	5300	52/39	9.80	10.80	13.34	23.98		1.38		26.99	Pass
HE20	MCS0	2	60	5300	106/54	12.70	13.60	16.18	23.98		1.38		26.99	Pass
HE20	MCS0	2	64	5320	Full	16.70	17.90	20.35	23.98		1.38		26.99	Pass
HE20	MCS0	2	64	5320	26/8	6.80	8.60	10.80	23.98		1.38		26.99	Pass
HE20	MCS0	2	64	5320	52/40	9.70	11.00	13.41	23.98		1.38		26.99	Pass
HE20	MCS0	2	64	5320	106/54	13.30	14.40	16.90	23.98		1.38		26.99	Pass
HE40	MCS0	2	54	5270	Full	16.30	17.00	19.67	23.98		1.38		26.99	Pass
HE40	MCS0	2	54	5270	242/61	13.30	13.90	16.62	23.98		1.38		26.99	Pass
HE40	MCS0	2	62	5310	Full	16.30	17.30	19.84	23.98		1.38		26.99	Pass
HE40	MCS0	2	62	5310	242/62	13.00	14.20	16.65	23.98		1.38		26.99	Pass
HE80	MCS0	2	58	5290	Full	16.30	17.20	19.78	23.98		1.38		26.99	Pass
HE80	MCS0	2	58	5290	484/66	9.80	11.00	13.45	23.98		1.38		26.99	Pass

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
HE20	MCS0	2	100	5500	Full	16.80	16.90	19.86	23.98		0.27		26.99	Pass
HE20	MCS0	2	100	5500	26/0	5.90	5.20	8.57	23.98		0.27		26.99	Pass
HE20	MCS0	2	100	5500	52/37	9.80	10.10	12.96	23.98		0.27		26.99	Pass
HE20	MCS0	2	100	5500	106/53	13.00	13.20	16.11	23.98		0.27		26.99	Pass
HE20	MCS0	2	116	5580	Full	17.00	17.00	20.01	23.98		0.27		26.99	Pass
HE20	MCS0	2	116	5580	26/4	7.80	8.10	10.96	23.98		0.27		26.99	Pass
HE20	MCS0	2	116	5580	52/38	10.00	9.90	12.96	23.98		0.27		26.99	Pass
HE20	MCS0	2	116	5580	106/53	13.40	13.40	16.41	23.98		0.27		26.99	Pass
HE20	MCS0	2	140	5700	Full	16.40	17.00	19.72	23.98		0.27		26.99	Pass
HE20	MCS0	2	140	5700	26/8	5.50	5.10	8.31	23.98		0.27		26.99	Pass
HE20	MCS0	2	140	5700	52/40	9.70	10.30	13.02	23.98		0.27		26.99	Pass
HE20	MCS0	2	140	5700	106/54	13.00	13.60	16.32	23.98		0.27		26.99	Pass
HE40	MCS0	2	102	5510	Full	16.50	16.50	19.51	23.98		0.27		26.99	Pass
HE40	MCS0	2	102	5510	242/61	13.40	13.70	16.56	23.98		0.27		26.99	Pass
HE40	MCS0	2	110	5550	242/61	13.30	13.80	16.57	23.98		0.27		26.99	Pass
HE40	MCS0	2	134	5670	Full	16.70	16.70	19.71	23.98		0.27		26.99	Pass
HE40	MCS0	2	134	5670	242/62	13.40	14.20	16.83	23.98		0.27		26.99	Pass
HE80	MCS0	2	106	5530	Full	16.60	16.50	19.56	23.98		0.27		26.99	Pass
HE80	MCS0	2	106	5530	484/65	10.60	10.80	13.71	23.98		0.27		26.99	Pass
HE80	MCS0	2	122	5610	Full	16.60	16.60	19.61	23.98		0.27		26.99	Pass
HE80	MCS0	2	122	5610	484/66	9.90	10.60	13.27	23.98		0.27		26.99	Pass
HE160	MCS0	2	114	5570	Full	15.40	15.60	18.51	23.98		0.27		26.99	Pass

FCC Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
HE20	MCS0	2	144	5720	Full	16.50	17.00	19.77	23.10		0.27		26.99	Pass
HE20	MCS0	2	144	5720	26/8	5.30	5.30	8.31	23.10		0.27		26.99	Pass
HE20	MCS0	2	144	5720	52/40	9.30	10.30	12.84	23.10		0.27		26.99	Pass
HE20	MCS0	2	144	5720	106/54	12.70	13.50	16.13	23.10		0.27		26.99	Pass
HE40	MCS0	2	142	5710	Full	16.10	16.50	19.31	23.98		0.27		26.99	Pass
HE40	MCS0	2	142	5710	242/62	12.50	13.50	16.04	23.98		0.27		26.99	Pass
HE80	MCS0	2	138	5690	Full	16.30	16.60	19.46	23.98		0.27		26.99	Pass
HE80	MCS0	2	138	5690	484/66	9.50	10.60	13.10	23.98		0.27		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10		
HE20	MCS0	2	36	5180	Full	4.86	5.54	8.00	11.00		2.63			Pass
HE20	MCS0	2	36	5180	26/0	3.88	3.57	6.74	11.00		2.63			Pass
HE20	MCS0	2	36	5180	52/37	4.53	5.32	7.88	11.00		2.63			Pass
HE20	MCS0	2	36	5180	106/53	4.50	5.45	7.97	11.00		2.63			Pass
HE20	MCS0	2	44	5220	Full	5.09	5.88	8.32	11.00		2.63			Pass
HE20	MCS0	2	44	5220	26/4	5.13	5.52	8.11	11.00		2.63			Pass
HE20	MCS0	2	44	5220	52/39	5.12	5.65	8.24	11.00		2.63			Pass
HE20	MCS0	2	44	5220	106/53	4.59	5.21	7.82	11.00		2.63			Pass
HE20	MCS0	2	48	5240	Full	5.18	6.07	8.46	11.00		2.63			Pass
HE20	MCS0	2	48	5240	26/8	4.39	3.89	7.13	11.00		2.63			Pass
HE20	MCS0	2	48	5240	52/40	4.46	5.27	7.96	11.00		2.63			Pass
HE20	MCS0	2	48	5240	106/54	4.72	5.57	8.05	11.00		2.63			Pass
HE40	MCS0	2	38	5190	Full	1.86	2.55	5.01	11.00		2.63			Pass
HE40	MCS0	2	38	5190	242/61	1.80	2.32	4.89	11.00		2.63			Pass
HE40	MCS0	2	46	5230	Full	1.83	2.73	5.23	11.00		2.63			Pass
HE40	MCS0	2	46	5230	242/62	1.66	2.40	4.99	11.00		2.63			Pass
HE80	MCS0	2	42	5210	Full	-1.06	-0.03	2.46	11.00		2.63			Pass
HE80	MCS0	2	42	5210	484/65	-0.88	-0.15	2.41	11.00		2.63			Pass
HE160	MCS0	2	50	5250	Full	-4.55	-4.26	-1.69	11.00		2.63			Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10	
HE20	MCS0	2	52	5260	Full	4.89	5.82	8.16	11.00	3.71			Pass
HE20	MCS0	2	52	5260	26/0	4.30	4.18	7.24	11.00	3.71			Pass
HE20	MCS0	2	52	5260	52/37	4.81	5.54	8.11	11.00	3.71			Pass
HE20	MCS0	2	52	5260	106/53	4.88	5.51	8.07	11.00	3.71			Pass
HE20	MCS0	2	60	5300	Full	5.25	6.15	8.60	11.00	3.71			Pass
HE20	MCS0	2	60	5300	26/4	4.45	5.85	8.20	11.00	3.71			Pass
HE20	MCS0	2	60	5300	52/39	5.15	6.09	8.56	11.00	3.71			Pass
HE20	MCS0	2	60	5300	106/54	4.66	5.85	8.16	11.00	3.71			Pass
HE20	MCS0	2	64	5320	Full	5.18	6.46	8.78	11.00	3.71			Pass
HE20	MCS0	2	64	5320	26/8	4.61	6.50	8.61	11.00	3.71			Pass
HE20	MCS0	2	64	5320	52/40	4.60	6.01	8.30	11.00	3.71			Pass
HE20	MCS0	2	64	5320	106/54	5.17	6.18	8.56	11.00	3.71			Pass
HE40	MCS0	2	54	5270	Full	1.75	2.91	5.09	11.00	3.71			Pass
HE40	MCS0	2	54	5270	242/61	1.75	2.17	4.89	11.00	3.71			Pass
HE40	MCS0	2	62	5310	Full	1.71	3.52	5.40	11.00	3.71			Pass
HE40	MCS0	2	62	5310	242/62	1.68	2.91	5.21	11.00	3.71			Pass
HE80	MCS0	2	58	5290	Full	-0.80	0.15	2.43	11.00	3.71			Pass
HE80	MCS0	2	58	5290	484/66	-1.39	-0.09	2.22	11.00	3.71			Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10	
HE20	MCS0	2	100	5500	Full	5.37	5.31	8.18	11.00	3.13			Pass
HE20	MCS0	2	100	5500	26/0	3.96	3.27	6.62	11.00	3.13			Pass
HE20	MCS0	2	100	5500	52/37	4.90	5.03	7.79	11.00	3.13			Pass
HE20	MCS0	2	100	5500	106/53	4.87	5.27	7.89	11.00	3.13			Pass
HE20	MCS0	2	116	5580	Full	5.59	5.40	8.27	11.00	3.13			Pass
HE20	MCS0	2	116	5580	26/4	4.63	5.09	7.82	11.00	3.13			Pass
HE20	MCS0	2	116	5580	52/38	4.94	5.14	7.98	11.00	3.13			Pass
HE20	MCS0	2	116	5580	106/53	5.14	5.15	7.96	11.00	3.13			Pass
HE20	MCS0	2	140	5700	Full	4.98	5.47	8.05	11.00	3.13			Pass
HE20	MCS0	2	140	5700	26/8	3.56	3.18	6.33	11.00	3.13			Pass
HE20	MCS0	2	140	5700	52/40	4.44	5.13	7.76	11.00	3.13			Pass
HE20	MCS0	2	140	5700	106/54	4.65	5.33	7.88	11.00	3.13			Pass
HE40	MCS0	2	102	5510	Full	2.23	2.23	4.82	11.00	3.13			Pass
HE40	MCS0	2	102	5510	242/61	1.88	2.36	4.78	11.00	3.13			Pass
HE40	MCS0	2	110	5550	Full	2.05	2.91	5.33	11.00	3.13			Pass
HE40	MCS0	2	110	5550	242/61	1.87	2.43	4.89	11.00	3.13			Pass
HE40	MCS0	2	134	5670	Full	1.88	3.00	5.37	11.00	3.13			Pass
HE40	MCS0	2	134	5670	242/62	2.00	2.74	5.23	11.00	3.13			Pass
HE80	MCS0	2	106	5530	Full	-0.73	-0.40	2.32	11.00	3.13			Pass
HE80	MCS0	2	106	5530	484/65	-0.63	-0.84	2.12	11.00	3.13			Pass
HE80	MCS0	2	122	5610	Full	-0.87	-0.47	2.08	11.00	3.13			Pass
HE80	MCS0	2	122	5610	484/66	-1.46	-0.58	1.98	11.00	3.13			Pass
HE160	MCS0	2	114	5570	Full	-4.77	-4.59	-1.86	11.00	3.13			Pass

Band III straddle channel MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 8	Ant 10	SUM	Ant 8	Ant 10	Ant 8	Ant 10	
HE20	MCS0	2	144	5720	Full	4.89	5.65	8.06	11.00	3.13			Pass
HE40	MCS0	2	144	5720	26/8	3.76	3.36	6.48	11.00	3.13			Pass
HE40	MCS0	2	144	5720	52/40	4.23	5.46	7.80	11.00	3.13			Pass
HE40	MCS0	2	144	5720	106/54	4.37	5.62	7.94	11.00	3.13			Pass
HE40	MCS0	2	142	5710	Full	1.58	2.58	4.83	11.00	3.13			Pass
HE40	MCS0	2	142	5710	242/62	1.01	2.26	4.49	11.00	3.13			Pass
HE80	MCS0	2	138	5690	Full	-0.90	-0.39	2.17	11.00	3.13			Pass
HE80	MCS0	2	138	5690	484/66	-1.62	-0.55	1.88	11.00	3.13			Pass



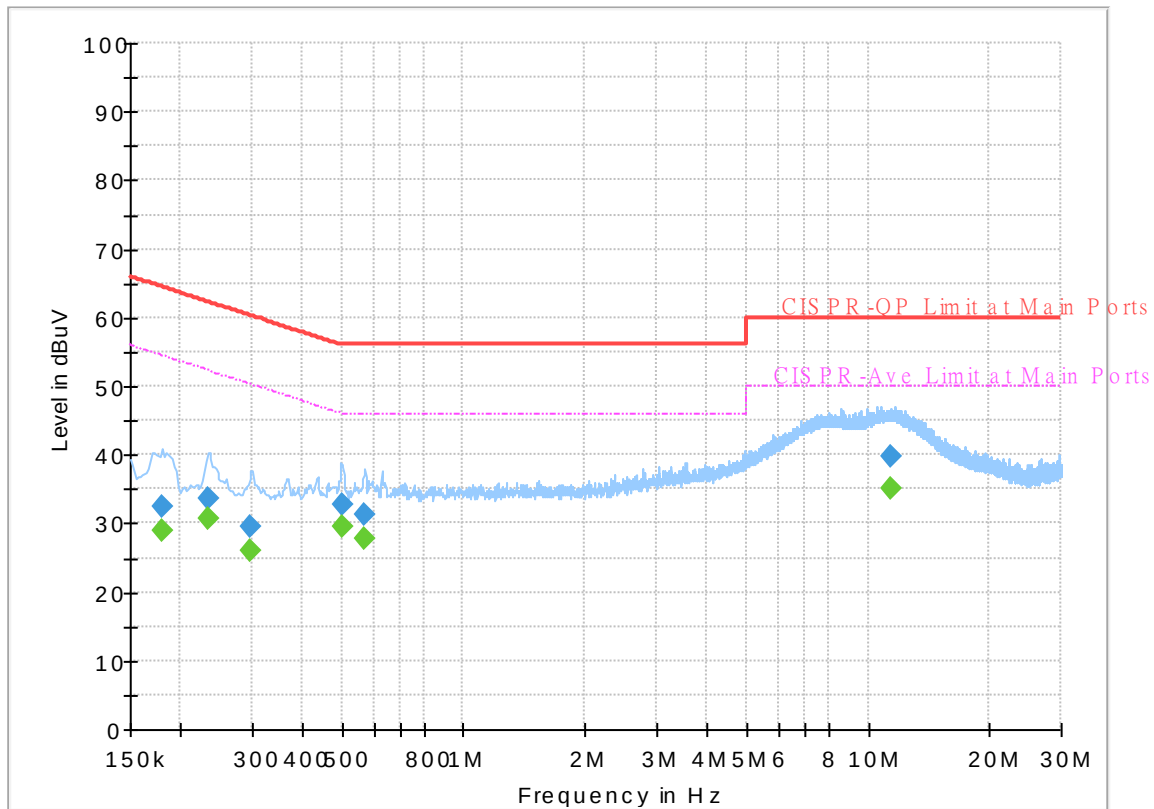
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO : 0N0303
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



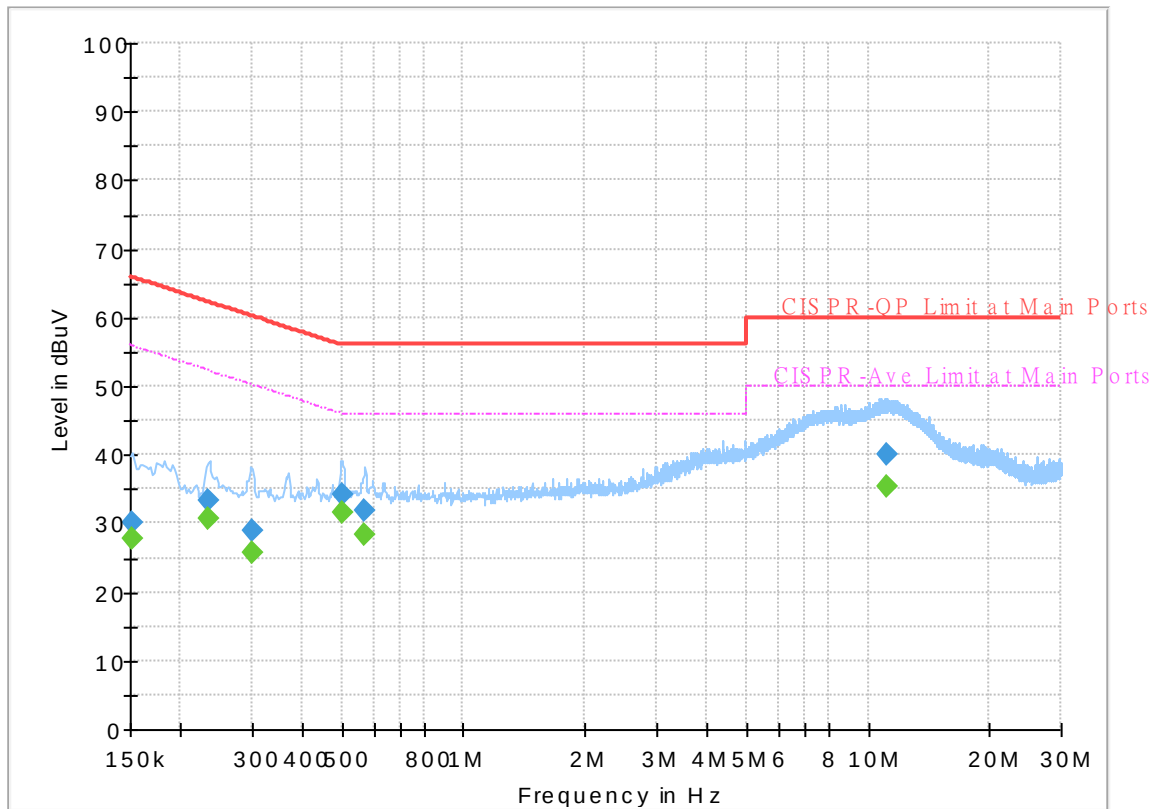
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.180510	---	28.96	54.46	25.50	L1	OFF	19.4
0.180510	32.41	---	64.46	32.05	L1	OFF	19.4
0.234690	---	30.70	52.28	21.58	L1	OFF	19.4
0.234690	33.71	---	62.28	28.57	L1	OFF	19.4
0.298500	---	26.10	50.28	24.18	L1	OFF	19.4
0.298500	29.47	---	60.28	30.81	L1	OFF	19.4
0.499920	---	29.60	46.00	16.40	L1	OFF	19.4
0.499920	32.65	---	56.00	23.35	L1	OFF	19.4
0.569490	---	27.89	46.00	18.11	L1	OFF	19.5
0.569490	31.20	---	56.00	24.80	L1	OFF	19.5
11.402250	---	35.10	50.00	14.90	L1	OFF	20.0
11.402250	39.70	---	60.00	20.30	L1	OFF	20.0

EUT Information

Report NO : 0N0303
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.151485	---	27.88	55.92	28.04	N	OFF	19.5
0.151485	30.26	---	65.92	35.66	N	OFF	19.5
0.233430	---	30.76	52.33	21.57	N	OFF	19.5
0.233430	33.38	---	62.33	28.95	N	OFF	19.5
0.301110	---	25.74	50.21	24.47	N	OFF	19.5
0.301110	28.95	---	60.21	31.26	N	OFF	19.5
0.502620	---	31.71	46.00	14.29	N	OFF	19.5
0.502620	34.35	---	56.00	21.65	N	OFF	19.5
0.569130	---	28.23	46.00	17.77	N	OFF	19.5
0.569130	31.78	---	56.00	24.22	N	OFF	19.5
11.151690	---	35.32	50.00	14.68	N	OFF	20.1
11.151690	39.96	---	60.00	20.04	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Daniel Lee, Jacky Hong and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
8+10		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5089.44	52.49	-21.51	74	41.92	31.94	6.06	27.43	100	124	P	H
		5102.7	41.83	-12.17	54	31.2	31.99	6.06	27.42	100	124	A	H
	*	5180	104.27	-	-	93.82	31.78	6.07	27.4	100	124	P	H
	*	5180	96.12	-	-	85.67	31.78	6.07	27.4	100	124	A	H
													H
		5107.12	52.12	-21.88	74	41.49	31.99	6.06	27.42	100	299	P	V
		5102.18	41.85	-12.15	54	31.21	32	6.06	27.42	100	299	A	V
	*	5180	104.14	-	-	93.69	31.78	6.07	27.4	100	299	P	V
	*	5180	96.42	-	-	85.97	31.78	6.07	27.4	100	299	A	V
													V
802.11a CH 44 5220MHz		5005.98	51.6	-22.4	74	41.48	31.52	6.05	27.45	100	125	P	H
		5105.04	41.72	-12.28	54	31.09	31.99	6.06	27.42	100	125	A	H
	*	5220	102.71	-	-	92.47	31.54	6.09	27.39	100	125	P	H
	*	5220	95.1	-	-	84.86	31.54	6.09	27.39	100	125	A	H
		5440.96	49.89	-24.11	74	39.32	31.66	6.25	27.34	100	125	P	H
		5459.72	40.54	-13.46	54	29.89	31.72	6.26	27.33	100	125	A	H
		5108.42	51.72	-22.28	74	41.1	31.98	6.06	27.42	100	300	P	V
		5098.28	41.72	-12.28	54	31.09	31.99	6.06	27.42	100	300	A	V
	*	5220	104.53	-	-	94.29	31.54	6.09	27.39	100	300	P	V
	*	5220	95.75	-	-	85.51	31.54	6.09	27.39	100	300	A	V
		5451.04	49.54	-24.46	74	38.91	31.7	6.26	27.33	100	300	P	V
		5459.44	40.55	-13.45	54	29.9	31.72	6.26	27.33	100	300	A	V



802.11a CH 48 5240MHz		5067.08	51.93	-22.07	74	41.5	31.8	6.06	27.43	100	122	P	H
		5090.22	41.67	-12.33	54	31.1	31.94	6.06	27.43	100	122	A	H
	*	5240	103.1	-	-	93.01	31.38	6.1	27.39	100	122	P	H
	*	5240	95.26	-	-	85.17	31.38	6.1	27.39	100	122	A	H
		5434.8	50.04	-23.96	74	39.49	31.64	6.25	27.34	100	122	P	H
		5460	40.52	-13.48	54	29.87	31.72	6.26	27.33	100	122	A	H
		5135.2	51.24	-22.76	74	40.66	31.93	6.06	27.41	100	300	P	V
		5096.2	41.71	-12.29	54	31.09	31.98	6.06	27.42	100	300	A	V
	*	5240	104.02	-	-	93.93	31.38	6.1	27.39	100	300	P	V
	*	5240	96.02	-	-	85.93	31.38	6.1	27.39	100	300	A	V
		5458.6	49.91	-24.09	74	39.26	31.72	6.26	27.33	100	300	P	V
		5459.72	40.51	-13.49	54	29.86	31.72	6.26	27.33	100	300	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 8+10	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	46.34	-21.86	68.2	53.13	39.84	9.88	56.51	100	0	P	H
		15540	46.33	-27.67	74	51.09	38.6	12.48	55.84	100	0	P	H
													H
													H
		10360	46.43	-21.77	68.2	53.22	39.84	9.88	56.51	100	0	P	V
		15540	45.95	-28.05	74	50.71	38.6	12.48	55.84	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	47.15	-21.05	68.2	53.73	39.96	9.92	56.46	100	0	P	H
		15660	44.93	-29.07	74	49.9	38.3	12.51	55.78	100	0	P	H
													H
													H
		10440	47.24	-20.96	68.2	53.82	39.96	9.92	56.46	100	0	P	V
		15660	45.69	-28.31	74	50.66	38.3	12.51	55.78	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	47.51	-20.69	68.2	54.08	39.92	9.94	56.43	100	0	P	H
		15720	45.37	-28.63	74	50.38	38.22	12.52	55.75	100	0	P	H
													H
													H
		10480	47	-21.2	68.2	53.57	39.92	9.94	56.43	100	0	P	V
		15720	44.61	-29.39	74	49.62	38.22	12.52	55.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 36 5180MHz		5116.22	53.02	-20.98	74	42.41	31.97	6.06	27.42	100	217	P	H
		5099.06	41.67	-12.33	54	31.04	31.99	6.06	27.42	100	217	A	H
	*	5180	103.54	-	-	93.09	31.78	6.07	27.4	100	217	P	H
	*	5180	93.01	-	-	82.56	31.78	6.07	27.4	100	217	A	H
													H
													H
		5086.58	52.15	-21.85	74	41.6	31.92	6.06	27.43	100	300	P	V
		5150	41.77	-12.23	54	31.21	31.9	6.07	27.41	100	300	A	V
	*	5180	104.58	-	-	94.13	31.78	6.07	27.4	100	300	P	V
	*	5180	94.02	-	-	83.57	31.78	6.07	27.4	100	300	A	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		5056.94	52.14	-21.86	74	41.78	31.74	6.06	27.44	100	229	P	H
		5087.62	41.62	-12.38	54	31.06	31.93	6.06	27.43	100	229	A	H
	*	5220	102.26	-	-	92.02	31.54	6.09	27.39	100	229	P	H
	*	5220	92.95	-	-	82.71	31.54	6.09	27.39	100	229	A	H
		5447.68	49.77	-24.23	74	39.16	31.69	6.25	27.33	100	229	P	H
		5459.72	40.55	-13.45	54	29.9	31.72	6.26	27.33	100	229	A	H
		5120.64	51.96	-22.04	74	41.36	31.96	6.06	27.42	100	301	P	V
		5098.28	41.66	-12.34	54	31.03	31.99	6.06	27.42	100	301	A	V
	*	5220	103.78	-	-	93.54	31.54	6.09	27.39	100	301	P	V
	*	5220	94.04	-	-	83.8	31.54	6.09	27.39	100	301	A	V
		5361.44	50.51	-23.49	74	40.31	31.35	6.21	27.36	100	301	P	V
		5458.88	40.53	-13.47	54	29.88	31.72	6.26	27.33	100	301	A	V



802.11ax HE20 Full CH 48 5240MHz		5094.38	51.77	-22.23	74	41.17	31.97	6.06	27.43	100	217	P	H
		5092.82	41.69	-12.31	54	31.1	31.96	6.06	27.43	100	217	A	H
	*	5240	104.23	-	-	94.14	31.38	6.1	27.39	100	217	P	H
	*	5240	93.3	-	-	83.21	31.38	6.1	27.39	100	217	A	H
		5416.88	49.46	-24.54	74	38.98	31.57	6.25	27.34	100	217	P	H
		5458.6	40.53	-13.47	54	29.88	31.72	6.26	27.33	100	217	A	H
		5115.96	51.51	-22.49	74	40.9	31.97	6.06	27.42	100	301	P	V
		5099.84	41.65	-12.35	54	31.01	32	6.06	27.42	100	301	A	V
	*	5240	103.93	-	-	93.84	31.38	6.1	27.39	100	301	P	V
	*	5240	93.78	-	-	83.69	31.38	6.1	27.39	100	301	A	V
		5391.12	50.18	-23.82	74	39.84	31.46	6.23	27.35	100	301	P	V
		5459.44	40.56	-13.44	54	29.91	31.72	6.26	27.33	100	301	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 36 5180MHz		10360	46.8	-21.4	68.2	53.59	39.84	9.88	56.51	100	0	P	H
		15540	45.7	-28.3	74	50.46	38.6	12.48	55.84	100	0	P	H
													H
													H
		10360	47.94	-20.26	68.2	54.73	39.84	9.88	56.51	100	0	P	V
		15540	46.49	-27.51	74	51.25	38.6	12.48	55.84	100	0	P	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		10440	47.31	-20.89	68.2	53.89	39.96	9.92	56.46	100	0	P	H
		15660	45.27	-28.73	74	50.24	38.3	12.51	55.78	100	0	P	H
													H
													H
		10440	47.08	-21.12	68.2	53.66	39.96	9.92	56.46	100	0	P	V
		15660	45.06	-28.94	74	50.03	38.3	12.51	55.78	100	0	P	V
													V
													V
802.11ax HE20 Full CH 48 5240MHz		10480	47.77	-20.43	68.2	54.34	39.92	9.94	56.43	100	0	P	H
		15720	44.44	-29.56	74	49.45	38.22	12.52	55.75	100	0	P	H
													H
													H
		10480	46.88	-21.32	68.2	53.45	39.92	9.94	56.43	100	0	P	V
		15720	45.66	-28.34	74	50.67	38.22	12.52	55.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/0 CH 36 5180MHz		5058.76	52.66	-21.34	74	42.28	31.75	6.06	27.43	100	279	P	H
		5094.64	42.22	-11.78	54	31.62	31.97	6.06	27.43	100	279	A	H
	*	5180	112.35	-	-	101.9	31.78	6.07	27.4	100	279	P	H
	*	5180	103.79	-	-	93.34	31.78	6.07	27.4	100	279	A	H
													H
													H
		5014.04	52.94	-21.06	74	42.78	31.56	6.05	27.45	100	300	P	V
		5094.64	42.49	-11.51	54	31.89	31.97	6.06	27.43	100	300	A	V
	*	5180	114.06	-	-	103.61	31.78	6.07	27.4	100	300	P	V
	*	5180	104.76	-	-	94.31	31.78	6.07	27.4	100	300	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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

WIFI Ant. 8+10	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		5081.64	51.89	-22.11	74	41.37	31.89	6.06	27.43	100	219	P	H
		5150	42.24	-11.76	54	31.68	31.9	6.07	27.41	100	219	A	H
	*	5190	100.21	-	-	89.8	31.74	6.07	27.4	100	219	P	H
	*	5190	90.2	-	-	79.79	31.74	6.07	27.4	100	219	A	H
		5454.4	51.23	-22.77	74	40.59	31.71	6.26	27.33	100	219	P	H
		5459.44	40.84	-13.16	54	30.19	31.72	6.26	27.33	100	219	A	H
		5140.4	51.94	-22.06	74	41.37	31.92	6.06	27.41	100	287	P	V
		5150	42.23	-11.77	54	31.67	31.9	6.07	27.41	100	287	A	V
	*	5190	101.41	-	-	91	31.74	6.07	27.4	100	287	P	V
	*	5190	91.21	-	-	80.8	31.74	6.07	27.4	100	287	A	V
		5448.52	50.62	-23.38	74	40.01	31.69	6.25	27.33	100	287	P	V
		5459.16	40.85	-13.15	54	30.2	31.72	6.26	27.33	100	287	A	V
802.11ax HE40 Full CH 46 5230MHz		5062.92	51.79	-22.21	74	41.38	31.78	6.06	27.43	100	218	P	H
		5093.86	41.81	-12.19	54	31.22	31.96	6.06	27.43	100	218	A	H
	*	5230	100.97	-	-	90.8	31.46	6.1	27.39	100	218	P	H
	*	5230	90.53	-	-	80.36	31.46	6.1	27.39	100	218	A	H
		5427.24	50.08	-23.92	74	39.56	31.61	6.25	27.34	100	218	P	H
		5458.32	40.76	-13.24	54	30.11	31.72	6.26	27.33	100	218	A	H
		5065.26	52.59	-21.41	74	42.17	31.79	6.06	27.43	100	300	P	V
		5097.76	41.93	-12.07	54	31.3	31.99	6.06	27.42	100	300	A	V
	*	5230	101.77	-	-	91.6	31.46	6.1	27.39	100	300	P	V
	*	5230	91.42	-	-	81.25	31.46	6.1	27.39	100	300	A	V
		5449.64	50.42	-23.58	74	39.8	31.7	6.25	27.33	100	300	P	V
		5459.72	40.85	-13.15	54	30.2	31.72	6.26	27.33	100	300	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 8+10	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		10380	46.34	-21.86	68.2	53.02	39.92	9.89	56.49	100	0	P	H
		15570	45.13	-28.87	74	50.03	38.45	12.48	55.83	100	0	P	H
													H
													H
		10380	47.16	-21.04	68.2	53.84	39.92	9.89	56.49	100	0	P	V
		15570	44.85	-29.15	74	49.75	38.45	12.48	55.83	100	0	P	V
													V
													V
802.11ax HE40 Full CH 46 5230MHz		10460	47.53	-20.67	68.2	54.1	39.94	9.93	56.44	100	0	P	H
		15690	44.41	-29.59	74	49.36	38.3	12.51	55.76	100	0	P	H
													H
													H
		10460	47.31	-20.89	68.2	53.88	39.94	9.93	56.44	100	0	P	V
		15690	44.59	-29.41	74	49.54	38.3	12.51	55.76	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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

WIFI Ant. 8+10	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		5135.46	52.9	-21.1	74	42.32	31.93	6.06	27.41	100	232	P	H
		5148.72	42.96	-11.04	54	32.41	31.9	6.06	27.41	100	232	A	H
	*	5210	97.98	-	-	87.68	31.62	6.08	27.4	100	232	P	H
	*	5210	87.38	-	-	77.08	31.62	6.08	27.4	100	232	A	H
		5395.04	50.62	-23.38	74	40.25	31.48	6.24	27.35	100	232	P	H
		5459.44	40.91	-13.09	54	30.26	31.72	6.26	27.33	100	232	A	H
		5148.2	52.14	-21.86	74	41.59	31.9	6.06	27.41	100	293	P	V
		5149.5	42.63	-11.37	54	32.08	31.9	6.06	27.41	100	293	A	V
	*	5210	97.58	-	-	87.28	31.62	6.08	27.4	100	293	P	V
	*	5210	86.82	-	-	76.52	31.62	6.08	27.4	100	293	A	V
		5450.48	50.31	-23.69	74	39.68	31.7	6.26	27.33	100	293	P	V
		5459.72	40.9	-13.1	54	30.25	31.72	6.26	27.33	100	293	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 8+10	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		10420	47.2	-21	68.2	53.78	39.98	9.91	56.47	100	0	P	H
		15630	45.51	-28.49	74	50.51	38.3	12.5	55.8	100	0	P	H
													H
													H
		10420	46.96	-21.24	68.2	53.54	39.98	9.91	56.47	100	0	P	V
		15630	45.34	-28.66	74	50.34	38.3	12.5	55.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11ax HE160 Full (Band Edge @ 3m)**

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 50 5250MHz		5091.26	53.71	-20.29	74	43.13	31.95	6.06	27.43	102	231	P	H
		5118.82	43.09	-10.91	54	32.49	31.96	6.06	27.42	102	231	A	H
	*	5250	95.57	-	-	85.55	31.3	6.11	27.39	102	231	P	H
	*	5250	83.64	-	-	73.62	31.3	6.11	27.39	102	231	A	H
		5406.24	52.77	-21.23	74	42.35	31.52	6.24	27.34	102	231	P	H
		5357.8	42.28	-11.72	54	32.11	31.33	6.2	27.36	102	231	A	H
		5094.9	53.76	-20.24	74	43.16	31.97	6.06	27.43	100	300	P	V
		5114.92	43.17	-10.83	54	32.56	31.97	6.06	27.42	100	300	A	V
	*	5250	95.15	-	-	85.13	31.3	6.11	27.39	100	300	P	V
	*	5250	84.39	-	-	74.37	31.3	6.11	27.39	100	300	A	V
		5354.44	51.65	-22.35	74	41.49	31.32	6.2	27.36	100	300	P	V
		5355	41.86	-12.14	54	31.7	31.32	6.2	27.36	100	300	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11ax HE160 Full (Harmonic @ 3m)**

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 50 5250MHz		10500	47.08	-21.12	68.2	53.65	39.9	9.95	56.42	100	0	P	H
		15750	46.03	-27.97	74	51.14	38.1	12.53	55.74	100	0	P	H
													H
													H
		10500	46.72	-21.48	68.2	53.29	39.9	9.95	56.42	100	0	P	V
		15750	45.46	-28.54	74	50.57	38.1	12.53	55.74	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 8+10	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		5053.04	52.25	-21.75	74	41.91	31.72	6.06	27.44	100	214	P	H
		5103.02	41.78	-12.22	54	31.15	31.99	6.06	27.42	100	214	A	H
	*	5260	103.44	-	-	93.4	31.3	6.12	27.38	100	214	P	H
	*	5260	96.14	-	-	86.1	31.3	6.12	27.38	100	214	A	H
		5426.88	49.43	-24.57	74	38.91	31.61	6.25	27.34	100	214	P	H
		5459.04	40.64	-13.36	54	29.99	31.72	6.26	27.33	100	214	A	H
		5121.72	52.12	-21.88	74	41.52	31.96	6.06	27.42	100	306	P	V
		5092.48	41.69	-12.31	54	31.11	31.95	6.06	27.43	100	306	A	V
	*	5260	102.64	-	-	92.6	31.3	6.12	27.38	100	306	P	V
	*	5260	94.68	-	-	84.64	31.3	6.12	27.38	100	306	A	V
		5375.04	48.96	-25.04	74	38.69	31.4	6.22	27.35	100	306	P	V
		5459.28	40.64	-13.36	54	29.99	31.72	6.26	27.33	100	306	A	V
802.11a CH 60 5300MHz		5107.1	52.49	-21.51	74	41.86	31.99	6.06	27.42	100	233	P	H
		5099.96	41.68	-12.32	54	31.04	32	6.06	27.42	100	233	A	H
	*	5300	103.08	-	-	93	31.3	6.15	27.37	100	233	P	H
	*	5300	96.05	-	-	85.97	31.3	6.15	27.37	100	233	A	H
		5459.04	50.2	-23.8	74	39.55	31.72	6.26	27.33	100	233	P	H
		5459.28	40.59	-13.41	54	29.94	31.72	6.26	27.33	100	233	A	H
		5022.78	51.69	-22.31	74	41.49	31.59	6.05	27.44	100	301	P	V
		5093.5	41.67	-12.33	54	31.08	31.96	6.06	27.43	100	301	A	V
	*	5300	102.9	-	-	92.82	31.3	6.15	27.37	100	301	P	V
	*	5300	94.6	-	-	84.52	31.3	6.15	27.37	100	301	A	V
		5386.56	50.25	-23.75	74	39.92	31.45	6.23	27.35	100	301	P	V
		5456.4	40.57	-13.43	54	29.93	31.71	6.26	27.33	100	301	A	V



802.11a CH 64 5320MHz	*	5320	103.29	-	-	93.19	31.3	6.17	27.37	100	228	P	H
	*	5320	95.87	-	-	85.77	31.3	6.17	27.37	100	228	A	H
		5451.84	49.72	-24.28	74	39.09	31.7	6.26	27.33	100	228	P	H
		5454.72	40.65	-13.35	54	30.01	31.71	6.26	27.33	100	228	A	H
													H
													H
	*	5320	102.31	-	-	92.21	31.3	6.17	27.37	100	300	P	V
	*	5320	94.1	-	-	84	31.3	6.17	27.37	100	300	A	V
		5449.12	50.34	-23.66	74	39.72	31.7	6.25	27.33	100	300	P	V
		5459.68	40.63	-13.37	54	29.98	31.72	6.26	27.33	100	300	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 8+10	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	47.23	-20.97	68.2	53.73	39.96	9.95	56.41	100	0	P	H
		15780	45.48	-28.52	74	50.68	37.98	12.54	55.72	100	0	P	H
													H
													H
		10520	47.15	-21.05	68.2	53.65	39.96	9.95	56.41	100	0	P	V
		15780	46.15	-27.85	74	51.35	37.98	12.54	55.72	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	47.66	-26.34	74	53.83	40.2	9.99	56.36	100	0	P	H
		15900	45.53	-28.47	74	50.82	37.8	12.57	55.66	100	0	P	H
													H
													H
		10600	47.09	-26.91	74	53.26	40.2	9.99	56.36	100	0	P	V
		15900	44.79	-29.21	74	50.08	37.8	12.57	55.66	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	47.29	-26.71	74	53.43	40.2	10	56.34	100	0	P	H
		15960	44.97	-29.03	74	50.22	37.8	12.58	55.63	100	0	P	H
													H
													H
		10640	48.33	-25.67	74	54.47	40.2	10	56.34	100	0	P	V
		15960	44.46	-29.54	74	49.71	37.8	12.58	55.63	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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

WIFI Ant. 8+10	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		5111.52	52.01	-21.99	74	41.39	31.98	6.06	27.42	100	230	P	H
		5098.6	41.78	-12.22	54	31.15	31.99	6.06	27.42	100	230	A	H
	*	5260	103.52	-	-	93.48	31.3	6.12	27.38	100	230	P	H
	*	5260	93.81	-	-	83.77	31.3	6.12	27.38	100	230	A	H
		5394.72	50.17	-23.83	74	39.8	31.48	6.24	27.35	100	230	P	H
		5458.32	40.86	-13.14	54	30.21	31.72	6.26	27.33	100	230	A	H
		5084.32	52.7	-21.3	74	42.16	31.91	6.06	27.43	100	288	P	V
		5100.3	41.74	-12.26	54	31.1	32	6.06	27.42	100	288	A	V
	*	5260	103.42	-	-	93.38	31.3	6.12	27.38	100	288	P	V
	*	5260	93.85	-	-	83.81	31.3	6.12	27.38	100	288	A	V
		5452.08	50.6	-23.4	74	39.97	31.7	6.26	27.33	100	288	P	V
		5458.08	40.79	-13.21	54	30.14	31.72	6.26	27.33	100	288	A	V
802.11ax HE20 Full CH 60 5300MHz		5056.44	52.08	-21.92	74	41.72	31.74	6.06	27.44	100	233	P	H
		5091.12	41.73	-12.27	54	31.15	31.95	6.06	27.43	100	233	A	H
	*	5300	104.28	-	-	94.2	31.3	6.15	27.37	100	233	P	H
	*	5300	94.03	-	-	83.95	31.3	6.15	27.37	100	233	A	H
		5355.12	50	-24	74	39.84	31.32	6.2	27.36	100	233	P	H
		5459.04	40.76	-13.24	54	30.11	31.72	6.26	27.33	100	233	A	H
		5047.94	52.33	-21.67	74	42.03	31.69	6.05	27.44	100	300	P	V
		5091.8	41.72	-12.28	54	31.14	31.95	6.06	27.43	100	300	A	V
	*	5300	103.56	-	-	93.48	31.3	6.15	27.37	100	300	P	V
	*	5300	93.5	-	-	83.42	31.3	6.15	27.37	100	300	A	V
		5439.84	51.36	-22.64	74	40.79	31.66	6.25	27.34	100	300	P	V
		5459.76	40.82	-13.18	54	30.17	31.72	6.26	27.33	100	300	A	V



802.11ax HE20 Full CH 64 5320MHz	*	5320	104.06	-	-	93.96	31.3	6.17	27.37	100	231	P	H
	*	5320	94.3	-	-	84.2	31.3	6.17	27.37	100	231	A	H
		5459.84	51.1	-22.9	74	40.45	31.72	6.26	27.33	100	231	P	H
		5459.36	40.85	-13.15	54	30.2	31.72	6.26	27.33	100	231	A	H
													H
													H
	*	5320	102.8	-	-	92.7	31.3	6.17	27.37	100	289	P	V
	*	5320	93.02	-	-	82.92	31.3	6.17	27.37	100	289	A	V
		5439.84	51.23	-22.77	74	40.66	31.66	6.25	27.34	100	289	P	V
		5459.52	40.82	-13.18	54	30.17	31.72	6.26	27.33	100	289	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 8+10	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		10520	47.39	-20.81	68.2	53.89	39.96	9.95	56.41	100	0	P	H
		15780	45.97	-28.03	74	51.17	37.98	12.54	55.72	100	0	P	H
													H
													H
		10520	46.97	-21.23	68.2	53.47	39.96	9.95	56.41	100	0	P	V
		15780	45.54	-28.46	74	50.74	37.98	12.54	55.72	100	0	P	V
													V
													V
802.11ax HE20 Full CH 60 5300MHz		10600	47.28	-26.72	74	53.45	40.2	9.99	56.36	100	0	P	H
		15900	44.87	-29.13	74	50.16	37.8	12.57	55.66	100	0	P	H
													H
													H
		10600	48.38	-25.62	74	54.55	40.2	9.99	56.36	100	0	P	V
		15900	44.76	-29.24	74	50.05	37.8	12.57	55.66	100	0	P	V
													V
													V
802.11ax HE20 Full CH 64 5320MHz		10640	46.79	-27.21	74	52.93	40.2	10	56.34	100	0	P	H
		15960	45.03	-28.97	74	50.28	37.8	12.58	55.63	100	0	P	H
													H
													H
		10640	48.51	-25.49	74	54.65	40.2	10	56.34	100	0	P	V
		15960	45.85	-28.15	74	51.1	37.8	12.58	55.63	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/8 CH 64 5320MHz	*	5320	114.12	-	-	104.02	31.3	6.17	27.37	100	221	P	H
	*	5320	105.57	-	-	95.47	31.3	6.17	27.37	100	221	A	H
		5445.44	51.25	-22.75	74	40.65	31.68	6.25	27.33	100	221	P	H
		5397.12	40.98	-13.02	54	30.6	31.49	6.24	27.35	100	221	A	H
													H
													H
	*	5320	111.79	-	-	101.69	31.3	6.17	27.37	100	299	P	V
	*	5320	102.95	-	-	92.85	31.3	6.17	27.37	100	299	A	V
		5453.28	51.27	-22.73	74	40.63	31.71	6.26	27.33	100	299	P	V
		5459.68	40.49	-13.51	54	29.84	31.72	6.26	27.33	100	299	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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

WIFI Ant. 8+10	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		5087.38	51.66	-22.34	74	41.11	31.92	6.06	27.43	100	231	P	H
		5098.6	41.77	-12.23	54	31.14	31.99	6.06	27.42	100	231	A	H
	*	5270	100.92	-	-	90.87	31.3	6.13	27.38	100	231	P	H
	*	5270	90.65	-	-	80.6	31.3	6.13	27.38	100	231	A	H
		5404.8	49.63	-24.37	74	39.21	31.52	6.24	27.34	100	231	P	H
		5459.52	40.83	-13.17	54	30.18	31.72	6.26	27.33	100	231	A	H
		5106.08	52.87	-21.13	74	42.24	31.99	6.06	27.42	101	294	P	V
		5105.06	41.8	-12.2	54	31.17	31.99	6.06	27.42	101	294	A	V
	*	5270	101.8	-	-	91.75	31.3	6.13	27.38	101	294	P	V
	*	5270	90.83	-	-	80.78	31.3	6.13	27.38	101	294	A	V
		5440.56	50.74	-23.26	74	40.17	31.66	6.25	27.34	101	294	P	V
		5457.36	40.85	-13.15	54	30.21	31.71	6.26	27.33	101	294	A	V
802.11ax HE40 Full CH 62 5310MHz		5059.5	52.27	-21.73	74	41.88	31.76	6.06	27.43	101	231	P	H
		5098.6	41.72	-12.28	54	31.09	31.99	6.06	27.42	101	231	A	H
	*	5310	100.94	-	-	90.85	31.3	6.16	27.37	101	231	P	H
	*	5310	90.81	-	-	80.72	31.3	6.16	27.37	101	231	A	H
		5416.8	52.2	-21.8	74	41.72	31.57	6.25	27.34	101	231	P	H
		5459.76	40.88	-13.12	54	30.23	31.72	6.26	27.33	101	231	A	H
		5129.88	52.29	-21.71	74	41.71	31.94	6.06	27.42	110	296	P	V
		5091.8	41.75	-12.25	54	31.17	31.95	6.06	27.43	110	296	A	V
	*	5310	100.72	-	-	90.63	31.3	6.16	27.37	110	296	P	V
	*	5310	90.33	-	-	80.24	31.3	6.16	27.37	110	296	A	V
		5439.84	49.92	-24.08	74	39.35	31.66	6.25	27.34	110	296	P	V
		5459.28	40.75	-13.25	54	30.1	31.72	6.26	27.33	110	296	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 8+10	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		10540	47.03	-21.17	68.2	53.45	40.02	9.42	56.4	100	0	P	H
		15810	45.85	-28.15	74	51.12	37.89	11.81	55.71	100	0	P	H
													H
													H
		10540	47.59	-20.61	68.2	54.01	40.02	9.42	56.4	100	0	P	V
		15810	45.92	-28.08	74	51.19	37.89	11.81	55.71	100	0	P	V
													V
													V
802.11ax HE40 Full CH 62 5310MHz		10620	46.82	-27.18	74	52.98	40.2	9.46	56.35	100	0	P	H
		15930	46.33	-27.67	74	51.6	37.8	11.85	55.65	100	0	P	H
													H
													H
		10620	47.73	-26.27	74	53.89	40.2	9.46	56.35	100	0	P	V
		15930	45.62	-28.38	74	50.89	37.8	11.85	55.65	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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

WIFI Ant. 8+10	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		5113.56	51.73	-22.27	74	41.12	31.97	6.06	27.42	102	232	P	H
		5091.46	41.8	-12.2	54	31.22	31.95	6.06	27.43	102	232	A	H
	*	5290	98.33	-	-	88.25	31.3	6.15	27.37	102	232	P	H
	*	5290	87.66	-	-	77.58	31.3	6.15	27.37	102	232	A	H
		5402.4	52.46	-21.54	74	42.06	31.51	6.24	27.35	102	232	P	H
		5350.32	41.88	-12.12	54	31.74	31.3	6.2	27.36	102	232	A	H
		5042.84	52.92	-21.08	74	42.64	31.67	6.05	27.44	100	295	P	V
		5099.96	41.9	-12.1	54	31.26	32	6.06	27.42	100	295	A	V
	*	5290	99.69	-	-	89.61	31.3	6.15	27.37	100	295	P	V
	*	5290	88.14	-	-	78.06	31.3	6.15	27.37	100	295	A	V
		5455.92	51.45	-22.55	74	40.81	31.71	6.26	27.33	100	295	P	V
		5350.8	41.83	-12.17	54	31.69	31.3	6.2	27.36	100	295	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 8+10	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		10580	47.81	-20.39	68.2	54.06	40.14	9.98	56.37	100	0	P	H
		15870	45.46	-28.54	74	50.74	37.83	12.56	55.67	100	0	P	H
													H
													H
		10580	47.27	-20.93	68.2	53.52	40.14	9.98	56.37	100	0	P	V
		15870	44.73	-29.27	74	50.01	37.83	12.56	55.67	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 8+10	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		5458.48	50.04	-23.96	74	39.39	31.72	6.26	27.33	100	233	P	H
		5460.08	50.93	-17.27	68.2	40.28	31.72	6.26	27.33	100	233	P	H
		5460	40.8	-13.2	54	30.15	31.72	6.26	27.33	100	233	A	H
	*	5500	103.8	-	-	93.05	31.8	6.27	27.32	100	233	P	H
	*	5500	96.55	-	-	85.8	31.8	6.27	27.32	100	233	A	H
													H
		5412.24	51.04	-22.96	74	40.59	31.55	6.24	27.34	100	174	P	V
		5461.52	50.33	-17.87	68.2	39.68	31.72	6.26	27.33	100	174	P	V
		5456.72	40.61	-13.39	54	29.97	31.71	6.26	27.33	100	174	A	V
	*	5500	99.46	-	-	88.71	31.8	6.27	27.32	100	174	P	V
	*	5500	91.54	-	-	80.79	31.8	6.27	27.32	100	174	A	V
													V
802.11a CH 116 5580MHz		5426.56	51.08	-22.92	74	40.56	31.61	6.25	27.34	100	235	P	H
		5466.64	48.84	-19.36	68.2	38.18	31.73	6.26	27.33	100	235	P	H
		5457.76	40.58	-13.42	54	29.93	31.72	6.26	27.33	100	235	A	H
	*	5580	104.23	-	-	93.5	31.82	6.29	27.38	100	235	P	H
	*	5580	96.22	-	-	85.49	31.82	6.29	27.38	100	235	A	H
		5756.18	50.99	-17.21	68.2	39.9	32.1	6.49	27.5	100	235	P	H
		5352.64	49.53	-24.47	74	39.38	31.31	6.2	27.36	100	184	P	V
		5468.32	49.43	-18.77	68.2	38.76	31.74	6.26	27.33	100	184	P	V
		5459.2	40.55	-13.45	54	29.9	31.72	6.26	27.33	100	184	A	V
	*	5580	100.08	-	-	89.35	31.82	6.29	27.38	100	184	P	V
	*	5580	91.63	-	-	80.9	31.82	6.29	27.38	100	184	A	V
		5745.47	51.89	-16.31	68.2	40.83	32.09	6.47	27.5	100	184	P	V



802.11a CH 140 5700MHz	*	5700	103.51	-	-	92.55	32	6.42	27.46	106	231	P	H
	*	5700	95.49	-	-	84.53	32	6.42	27.46	106	231	A	H
		5733.16	51.58	-16.62	68.2	40.54	32.07	6.46	27.49	106	231	P	H
													H
													H
													H
	*	5700	100.55	-	-	89.59	32	6.42	27.46	100	189	P	V
	*	5700	92.72	-	-	81.76	32	6.42	27.46	100	189	A	V
		5725.72	52.6	-15.6	68.2	41.58	32.05	6.45	27.48	100	189	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 8+10	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	48.01	-25.99	74	53.59	40.4	10.15	56.13	100	0	P	H
		16500	46.65	-21.55	68.2	49.89	39.4	12.77	55.41	100	0	P	H
													H
													H
		11000	48.53	-25.47	74	54.11	40.4	10.15	56.13	100	0	P	V
		16500	46.43	-21.77	68.2	49.67	39.4	12.77	55.41	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	47.02	-26.98	74	52.91	39.88	10.25	56.02	100	0	P	H
		16740	47.66	-20.54	68.2	50.34	40.08	12.85	55.61	100	0	P	H
													H
													H
		11160	47.34	-26.66	74	53.23	39.88	10.25	56.02	100	0	P	V
		16740	47.48	-20.72	68.2	50.16	40.08	12.85	55.61	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	47.54	-26.46	74	53.21	39.8	10.39	55.86	100	0	P	H
		17100	48.42	-19.78	68.2	51.64	39.8	13.01	56.03	100	0	P	H
													H
													H
		11400	46.65	-27.35	74	52.32	39.8	10.39	55.86	100	0	P	V
		17100	47.47	-20.73	68.2	50.69	39.8	13.01	56.03	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

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

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 100 5500MHz		5455.44	51.55	-22.45	74	40.91	31.71	6.26	27.33	102	232	P	H
		5463.44	50.99	-17.21	68.2	40.33	31.73	6.26	27.33	102	232	P	H
		5459.28	40.71	-13.29	54	30.06	31.72	6.26	27.33	102	232	A	H
	*	5500	102.93	-	-	92.18	31.8	6.27	27.32	102	232	P	H
	*	5500	93.81	-	-	83.06	31.8	6.27	27.32	102	232	A	H
		5457.68	49.79	-24.21	74	39.14	31.72	6.26	27.33	100	176	P	V
		5467.44	49.33	-18.87	68.2	38.67	31.73	6.26	27.33	100	176	P	V
		5460	40.62	-13.38	54	29.97	31.72	6.26	27.33	100	176	A	V
	*	5500	99.25	-	-	88.5	31.8	6.27	27.32	100	176	P	V
	*	5500	89.56	-	-	78.81	31.8	6.27	27.32	100	176	A	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		5439.76	49.89	-24.11	74	39.32	31.66	6.25	27.34	100	235	P	H
		5465.92	50.09	-18.11	68.2	39.43	31.73	6.26	27.33	100	235	P	H
		5458.24	40.58	-13.42	54	29.93	31.72	6.26	27.33	100	235	A	H
	*	5580	104.99	-	-	94.26	31.82	6.29	27.38	100	235	P	H
	*	5580	94.16	-	-	83.43	31.82	6.29	27.38	100	235	A	H
		5761.22	51.53	-16.67	68.2	40.45	32.1	6.49	27.51	100	235	P	H
		5453.44	50.23	-23.77	74	39.59	31.71	6.26	27.33	100	185	P	V
		5468.8	51.16	-17.04	68.2	40.49	31.74	6.26	27.33	100	185	P	V
		5458.96	40.54	-13.46	54	29.89	31.72	6.26	27.33	100	185	A	V
	*	5580	99.11	-	-	88.38	31.82	6.29	27.38	100	185	P	V
	*	5580	89.86	-	-	79.13	31.82	6.29	27.38	100	185	A	V
		5738.225	51.57	-16.63	68.2	40.51	32.08	6.47	27.49	100	185	P	V



802.11ax HE20 Full CH 140 5700MHz	*	5700	103.31	-	-	92.35	32	6.42	27.46	100	234	P	H
	*	5700	93.34	-	-	82.38	32	6.42	27.46	100	234	A	H
		5733.24	51.31	-16.89	68.2	40.27	32.07	6.46	27.49	100	234	P	H
													H
													H
													H
	*	5700	99.35	-	-	88.39	32	6.42	27.46	100	189	P	V
	*	5700	90.09	-	-	79.13	32	6.42	27.46	100	189	A	V
		5736.52	51.11	-17.09	68.2	40.07	32.07	6.46	27.49	100	189	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 100 5500MHz		11000	48.09	-25.91	74	53.67	40.4	10.15	56.13	100	0	P	H
		16500	46.5	-21.7	68.2	49.74	39.4	12.77	55.41	100	0	P	H
													H
													H
		11000	47.83	-26.17	74	53.41	40.4	10.15	56.13	100	0	P	V
		16500	46.46	-21.74	68.2	49.7	39.4	12.77	55.41	100	0	P	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		11160	47.56	-26.44	74	53.45	39.88	10.25	56.02	100	0	P	H
		16740	48.33	-19.87	68.2	51.01	40.08	12.85	55.61	100	0	P	H
													H
													H
		11160	47.04	-26.96	74	52.93	39.88	10.25	56.02	100	0	P	V
		16740	47.35	-20.85	68.2	50.03	40.08	12.85	55.61	100	0	P	V
													V
													V
802.11ax HE20 Full CH 140 5700MHz		11400	46.87	-27.13	74	52.54	39.8	10.39	55.86	100	0	P	H
		17100	47.94	-20.26	68.2	51.16	39.8	13.01	56.03	100	0	P	H
													H
													H
		11400	46.93	-27.07	74	52.6	39.8	10.39	55.86	100	0	P	V
		17100	47.78	-20.42	68.2	51	39.8	13.01	56.03	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/0 CH 100 5260MHz		5444.4	51.29	-22.71	74	40.69	31.68	6.25	27.33	100	234	P	H
		5468.08	51.39	-16.81	68.2	40.72	31.74	6.26	27.33	100	234	P	H
		5459.28	41.11	-12.89	54	30.46	31.72	6.26	27.33	100	234	A	H
	*	5500	113.39	-	-	102.64	31.8	6.27	27.32	100	234	P	H
	*	5500	105.02	-	-	94.27	31.8	6.27	27.32	100	234	A	H
													H
		5386.48	51.17	-22.83	74	40.84	31.45	6.23	27.35	101	166	P	V
		5462	50.9	-17.3	68.2	40.25	31.72	6.26	27.33	101	166	P	V
		5458.16	40.94	-13.06	54	30.29	31.72	6.26	27.33	101	166	A	V
	*	5500	110.86	-	-	100.11	31.8	6.27	27.32	101	166	P	V
	*	5500	101.34	-	-	90.59	31.8	6.27	27.32	101	166	A	V
													V
802.11ax HE20 Partial 26/8 CH 140 5700MHz	*	5700	110.57	-	-	99.61	32	6.42	27.46	100	213	P	H
	*	5700	102.22	-	-	91.26	32	6.42	27.46	100	213	A	H
		5725.48	52.58	-15.62	68.2	41.56	32.05	6.45	27.48	100	213	P	H
													H
													H
													H
	*	5700	109.11	-	-	98.15	32	6.42	27.46	100	83	P	V
	*	5700	100.34	-	-	89.38	32	6.42	27.46	100	83	A	V
		5737.4	51.9	-16.3	68.2	40.86	32.07	6.46	27.49	100	83	P	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 102 5510MHz		5430.4	49.81	-24.19	74	39.28	31.62	6.25	27.34	100	234	P	H
		5463.76	51.5	-16.7	68.2	40.84	31.73	6.26	27.33	100	234	P	H
		5459.44	40.96	-13.04	54	30.31	31.72	6.26	27.33	100	234	A	H
	*	5510	101.64	-	-	90.92	31.78	6.27	27.33	100	234	P	H
	*	5510	91.09	-	-	80.37	31.78	6.27	27.33	100	234	A	H
		5750.51	50.6	-17.6	68.2	39.52	32.1	6.48	27.5	100	234	P	H
		5421.28	50.14	-23.86	74	39.64	31.59	6.25	27.34	108	174	P	V
		5467.36	50.81	-17.39	68.2	40.15	31.73	6.26	27.33	108	174	P	V
		5459.92	40.92	-13.08	54	30.27	31.72	6.26	27.33	108	174	A	V
	*	5510	98.05	-	-	87.33	31.78	6.27	27.33	108	174	P	V
	*	5510	87.07	-	-	76.35	31.78	6.27	27.33	108	174	A	V
		5737.28	51.44	-16.76	68.2	40.4	32.07	6.46	27.49	108	174	P	V
802.11ax HE40 Full CH 110 5550MHz		5358.16	50.14	-23.86	74	39.97	31.33	6.2	27.36	105	234	P	H
		5463.28	49.41	-18.79	68.2	38.75	31.73	6.26	27.33	105	234	P	H
		5459.68	40.83	-13.17	54	30.18	31.72	6.26	27.33	105	234	A	H
	*	5550	101.03	-	-	90.41	31.7	6.28	27.36	105	234	P	H
	*	5550	90.65	-	-	80.03	31.7	6.28	27.36	105	234	A	H
		5747.045	51.65	-16.55	68.2	40.58	32.09	6.48	27.5	105	234	P	H
		5406.16	50.95	-23.05	74	40.53	31.52	6.24	27.34	100	177	P	V
		5464.72	50.68	-17.52	68.2	40.02	31.73	6.26	27.33	100	177	P	V
		5459.92	40.6	-13.4	54	29.95	31.72	6.26	27.33	100	177	A	V
	*	5550	98.46	-	-	87.84	31.7	6.28	27.36	100	177	P	V
	*	5550	86.29	-	-	75.67	31.7	6.28	27.36	100	177	A	V
		5739.8	50.74	-17.46	68.2	39.68	32.08	6.47	27.49	100	177	P	V



802.11ax HE40 Full CH 134 5670MHz		5357	49.24	-24.76	74	39.07	31.33	6.2	27.36	100	237	P	H
		5468.3	48.27	-19.93	68.2	37.6	31.74	6.26	27.33	100	237	P	H
		5459.55	40.58	-13.42	54	29.93	31.72	6.26	27.33	100	237	A	H
	*	5670	99.62	-	-	88.8	31.88	6.38	27.44	100	237	P	H
	*	5670	90.3	-	-	79.48	31.88	6.38	27.44	100	237	A	H
		5733.185	50.97	-17.23	68.2	39.93	32.07	6.46	27.49	100	237	P	H
		5413	50.68	-23.32	74	40.23	31.55	6.24	27.34	100	179	P	V
		5470.05	49.04	-100.96	150	38.37	31.74	6.26	27.33	100	179	P	V
		5459.2	40.52	-13.48	54	29.87	31.72	6.26	27.33	100	179	A	V
	*	5670	97.35	-	-	86.53	31.88	6.38	27.44	100	179	P	V
	*	5670	87.02	-	-	76.2	31.88	6.38	27.44	100	179	A	V
		5758.7	49.95	-18.25	68.2	38.87	32.1	6.49	27.51	100	179	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 102 5510MHz		11020	48.1	-25.9	74	53.74	40.32	10.16	56.12	100	0	P	H
		16530	45.67	-22.53	68.2	48.93	39.4	12.78	55.44	100	0	P	H
													H
													H
		11020	47.64	-26.36	74	53.28	40.32	10.16	56.12	100	0	P	V
		16530	46.87	-21.33	68.2	50.13	39.4	12.78	55.44	100	0	P	V
													V
													V
802.11ax HE40 Full CH 110 5550MHz		11100	47.15	-26.85	74	53	40	10.21	56.06	100	0	P	H
		16650	48.4	-19.8	68.2	51.42	39.7	12.82	55.54	100	0	P	H
													H
													H
		11100	46.68	-27.32	74	52.53	40	10.21	56.06	100	0	P	V
		16650	47.04	-21.16	68.2	50.06	39.7	12.82	55.54	100	0	P	V
													V
													V
802.11ax HE40 Full CH 134 5670MHz		11340	45.83	-28.17	74	51.64	39.74	10.35	55.9	100	0	P	H
		17010	48.22	-19.98	68.2	50.96	40.16	12.95	55.85	100	0	P	H
													H
													H
		11340	46.86	-27.14	74	52.67	39.74	10.35	55.9	100	0	P	V
		17010	48.18	-20.02	68.2	50.92	40.16	12.95	55.85	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 106 5530MHz		5454.64	51.13	-22.87	74	40.49	31.71	6.26	27.33	100	234	P	H
		5465.92	51.4	-16.8	68.2	40.74	31.73	6.26	27.33	100	234	P	H
		5459.92	42.45	-11.55	54	31.8	31.72	6.26	27.33	100	234	A	H
	*	5530	99.23	-	-	88.55	31.74	6.28	27.34	100	234	P	H
	*	5530	88.83	-	-	78.15	31.74	6.28	27.34	100	234	A	H
		5754.92	51.16	-17.04	68.2	40.07	32.1	6.49	27.5	100	234	P	H
		5456.08	52.13	-21.87	74	41.49	31.71	6.26	27.33	100	183	P	V
		5467.12	51.52	-16.68	68.2	40.86	31.73	6.26	27.33	100	183	P	V
		5459.44	42.78	-11.22	54	32.13	31.72	6.26	27.33	100	183	A	V
	*	5530	96.48	-	-	85.8	31.74	6.28	27.34	100	183	P	V
	*	5530	84.62	-	-	73.94	31.74	6.28	27.34	100	183	A	V
		5751.14	52.35	-15.85	68.2	41.27	32.1	6.48	27.5	100	183	P	V
802.11ax HE80 Full CH 122 5610MHz		5372.05	49.61	-24.39	74	39.35	31.39	6.22	27.35	100	234	P	H
		5467.25	50.9	-17.3	68.2	40.24	31.73	6.26	27.33	100	234	P	H
		5457.8	41.1	-12.9	54	30.45	31.72	6.26	27.33	100	234	A	H
	*	5610	99.57	-	-	88.78	31.88	6.31	27.4	100	234	P	H
	*	5610	88.95	-	-	78.16	31.88	6.31	27.4	100	234	A	H
		5750.195	50.82	-17.38	68.2	39.74	32.1	6.48	27.5	100	234	P	H
		5418.6	49.62	-24.38	74	39.14	31.57	6.25	27.34	100	180	P	V
		5461.65	49.9	-18.3	68.2	39.25	31.72	6.26	27.33	100	180	P	V
		5458.85	40.9	-13.1	54	30.25	31.72	6.26	27.33	100	180	A	V
	*	5610	93.79	-	-	83	31.88	6.31	27.4	100	180	P	V
	*	5610	84.03	-	-	73.24	31.88	6.31	27.4	100	180	A	V
		5744.84	52.52	-15.68	68.2	41.46	32.09	6.47	27.5	100	180	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 106 5530MHz		11060	48.97	-25.03	74	54.71	40.16	10.19	56.09	100	0	P	H
		16590	47.47	-20.73	68.2	50.76	39.4	12.8	55.49	100	0	P	H
													H
													H
		11060	47.22	-26.78	74	52.96	40.16	10.19	56.09	100	0	P	V
		16590	46.94	-21.26	68.2	50.23	39.4	12.8	55.49	100	0	P	V
													V
													V
802.11ax HE80 Full CH 122 5610MHz		11220	46.64	-27.36	74	52.56	39.78	10.28	55.98	100	0	P	H
		16830	47.87	-20.33	68.2	50.5	40.17	12.89	55.69	100	0	P	H
													H
													H
		11220	46.21	-27.79	74	52.13	39.78	10.28	55.98	100	0	P	V
		16830	47.58	-20.62	68.2	50.21	40.17	12.89	55.69	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 114 5570MHz		5449.12	50.92	-23.08	74	40.3	31.7	6.25	27.33	100	232	P	H
		5467.84	50.47	-17.73	68.2	39.8	31.74	6.26	27.33	100	232	P	H
		5459.92	41.61	-12.39	54	30.96	31.72	6.26	27.33	100	232	A	H
	*	5570	95.18	-	-	84.48	31.78	6.29	27.37	100	232	P	H
	*	5570	84.23	-	-	73.53	31.78	6.29	27.37	100	232	A	H
		5756.18	50.83	-17.37	68.2	39.74	32.1	6.49	27.5	100	232	P	H
		5457.28	51.23	-22.77	74	40.59	31.71	6.26	27.33	100	178	P	V
		5460.4	50.99	-17.21	68.2	40.34	31.72	6.26	27.33	100	178	P	V
		5453.68	41.94	-12.06	54	31.3	31.71	6.26	27.33	100	178	A	V
	*	5570	91.62	-	-	80.92	31.78	6.29	27.37	100	178	P	V
	*	5570	80.73	-	-	70.03	31.78	6.29	27.37	100	178	A	V
		5749.565	51.48	-16.72	68.2	40.4	32.1	6.48	27.5	100	178	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
8+10		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5449.06	50.29	-23.71	74	39.67	31.7	6.25	27.33	104	235	P	H
		5467.78	50.04	-18.16	68.2	39.37	31.74	6.26	27.33	104	235	P	H
		5459.98	40.55	-13.45	54	29.9	31.72	6.26	27.33	104	235	A	H
	*	5720	102.86	-	-	91.86	32.04	6.44	27.48	104	235	P	H
	*	5720	95.06	-	-	84.06	32.04	6.44	27.48	104	235	A	H
		5900.25	51.65	-16.55	68.2	40.22	32.5	6.54	27.61	104	235	P	H
		5367.94	50.07	-23.93	74	39.84	31.37	6.21	27.35	100	184	P	V
		5467.39	50.7	-17.5	68.2	40.04	31.73	6.26	27.33	100	184	P	V
		5459.2	40.52	-13.48	54	29.87	31.72	6.26	27.33	100	184	A	V
	*	5720	101.72	-	-	90.72	32.04	6.44	27.48	100	184	P	V
	*	5720	93.21	-	-	82.21	32.04	6.44	27.48	100	184	A	V
		5935.5	51.2	-17	68.2	39.65	32.64	6.54	27.63	100	184	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 8+10	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 144 5720MHz		11440	47.14	-26.86	74	52.65	39.92	10.4	55.83	100	0	P	H
		17160	47.78	-20.42	68.2	51.04	39.86	13.04	56.16	100	0	P	H
													H
													H
		11440	47.91	-26.09	74	53.42	39.92	10.4	55.83	100	0	P	V
		17160	48.09	-20.11	68.2	51.35	39.86	13.04	56.16	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 8+10	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 144 5720MHz		5438.14	50.45	-23.55	74	39.89	31.65	6.25	27.34	101	236	P	H
		5468.56	50.37	-17.83	68.2	39.7	31.74	6.26	27.33	101	236	P	H
		5458.42	40.52	-13.48	54	29.87	31.72	6.26	27.33	101	236	A	H
	*	5720	103.56	-	-	92.56	32.04	6.44	27.48	101	236	P	H
	*	5720	93.25	-	-	82.25	32.04	6.44	27.48	101	236	A	H
		5853.5	50.56	-17.64	68.2	39.28	32.31	6.54	27.57	101	236	P	H
		5455.69	49.76	-24.24	74	39.12	31.71	6.26	27.33	100	185	P	V
		5467.78	52	-16.2	68.2	41.33	31.74	6.26	27.33	100	185	P	V
		5459.59	40.55	-13.45	54	29.9	31.72	6.26	27.33	100	185	A	V
	*	5720	100.49	-	-	89.49	32.04	6.44	27.48	100	185	P	V
	*	5720	90.51	-	-	79.51	32.04	6.44	27.48	100	185	A	V
		5926	51	-17.2	68.2	39.49	32.6	6.54	27.63	100	185	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 8+10	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 144 5720MHz		11440	48.32	-25.68	74	53.83	39.92	10.4	55.83	100	0	P	H
		17160	48.04	-20.16	68.2	51.3	39.86	13.04	56.16	100	0	P	H
													H
													H
		11440	46.92	-27.08	74	52.43	39.92	10.4	55.83	100	0	P	V
		17160	48.27	-19.93	68.2	51.53	39.86	13.04	56.16	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 8+10	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 142 5710MHz		5448.67	49.42	-24.58	74	38.81	31.69	6.25	27.33	100	232	P	H
		5462.71	50.27	-17.93	68.2	39.61	31.73	6.26	27.33	100	232	P	H
		5459.59	40.84	-13.16	54	30.19	31.72	6.26	27.33	100	232	A	H
	*	5710	101.98	-	-	91	32.02	6.43	27.47	100	232	P	H
	*	5710	90.98	-	-	80	32.02	6.43	27.47	100	232	A	H
		5902.75	51.47	-16.73	68.2	40.03	32.51	6.54	27.61	100	232	P	H
		5442.43	51.05	-22.95	74	40.46	31.67	6.25	27.33	100	175	P	V
		5466.22	50.14	-18.06	68.2	39.48	31.73	6.26	27.33	100	175	P	V
		5459.59	40.78	-13.22	54	30.13	31.72	6.26	27.33	100	175	A	V
	*	5710	98.13	-	-	87.15	32.02	6.43	27.47	100	175	P	V
	*	5710	87.19	-	-	76.21	32.02	6.43	27.47	100	175	A	V
		5918.75	51.42	-16.78	68.2	39.92	32.58	6.54	27.62	100	175	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 8+10	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 142 5710MHz		11420	47.19	-26.81	74	52.78	39.86	10.39	55.84	100	0	P	H
		17130	47.62	-20.58	68.2	50.86	39.83	13.03	56.1	100	0	P	H
													H
													H
		11420	46.31	-27.69	74	51.9	39.86	10.39	55.84	100	0	P	V
		17130	48.67	-19.53	68.2	51.91	39.83	13.03	56.1	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 8+10	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 138 5690MHz		5448.28	49.61	-24.39	74	39	31.69	6.25	27.33	100	234	P	H
		5468.95	49.22	-18.98	68.2	38.55	31.74	6.26	27.33	100	234	P	H
		5459.98	40.72	-13.28	54	30.07	31.72	6.26	27.33	100	234	A	H
	*	5690	99.18	-	-	88.27	31.96	6.41	27.46	100	234	P	H
	*	5690	87.7	-	-	76.79	31.96	6.41	27.46	100	234	A	H
		5863.3	51.25	-16.95	68.2	39.94	32.35	6.54	27.58	100	234	P	H
		5454.91	50.99	-23.01	74	40.35	31.71	6.26	27.33	100	185	P	V
		5467.39	49.57	-18.63	68.2	38.91	31.73	6.26	27.33	100	185	P	V
		5459.98	40.6	-13.4	54	29.95	31.72	6.26	27.33	100	185	A	V
	*	5690	94.56	-	-	83.65	31.96	6.41	27.46	100	185	P	V
	*	5690	84.38	-	-	73.47	31.96	6.41	27.46	100	185	A	V
		5906.5	50.83	-17.37	68.2	39.37	32.53	6.54	27.61	100	185	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 8+10	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 138 5690MHz		11380	46.48	-27.52	74	52.19	39.78	10.38	55.87	100	0	P	H
		17070	48.29	-19.91	68.2	51.35	39.92	12.99	55.97	100	0	P	H
													H
													H
		11380	46.98	-27.02	74	52.69	39.78	10.38	55.87	100	0	P	V
		17070	48.24	-19.96	68.2	51.3	39.92	12.99	55.97	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ax HE160 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
8+10		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full LF		32.91	21.45	-18.55	40	29.94	23.25	0.5	32.24	-	-	P	H
		157.07	28.78	-14.72	43.5	43.05	16.84	1.11	32.22	-	-	P	H
		265.71	30	-16	46	41.01	19.68	1.41	32.1	-	-	P	H
		381.14	27.91	-18.09	46	36.79	21.14	1.69	31.71	-	-	P	H
		798.24	33.86	-12.14	46	35.43	27.92	2.45	31.94	100	0	P	H
		950.53	32.58	-13.42	46	30.34	30.54	2.69	30.99	-	-	P	H
													H
													H
													H
													H
													H
													H
		36.79	29.85	-10.15	40	40.45	21.13	0.53	32.26	100	0	P	V
		187.14	23.79	-19.71	43.5	40.01	14.85	1.21	32.28	-	-	P	V
		384.05	27.49	-18.51	46	36.24	21.26	1.69	31.7	-	-	P	V
		646.92	30.01	-15.99	46	33.55	26.3	2.14	31.98	-	-	P	V
		783.69	34.2	-11.8	46	35.56	28.12	2.42	31.9	-	-	P	V
		948.59	31.75	-14.25	46	29.64	30.44	2.69	31.02	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<WPC Charging Mode>

Band 1 - 5150~5250MHz

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
8+10		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 50 5250MHz		5129.22	51.54	-22.46	74	40.96	31.94	6.06	27.42	101	142	P	H
		5133.64	42.22	-11.78	54	31.65	31.93	6.06	27.42	101	142	A	H
	*	5250	90.87	-	-	80.85	31.3	6.11	27.39	101	142	P	H
	*	5250	79.99	-	-	69.97	31.3	6.11	27.39	101	142	A	H
		5357.24	50.79	-23.21	74	40.62	31.33	6.2	27.36	101	142	P	H
		5460	40.69	-13.31	54	30.04	31.72	6.26	27.33	101	142	A	H
		5086.58	52.5	-21.5	74	41.95	31.92	6.06	27.43	101	70	P	V
		5113.88	42.26	-11.74	54	31.65	31.97	6.06	27.42	101	70	A	V
	*	5250	91.91	-	-	81.89	31.3	6.11	27.39	101	70	P	V
	*	5250	81.95	-	-	71.93	31.3	6.11	27.39	101	70	A	V
		5379.08	51.54	-22.46	74	41.25	31.42	6.22	27.35	101	70	P	V
		5379.64	42.05	-11.95	54	31.76	31.42	6.22	27.35	101	70	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11ax HE160 Full (Harmonic @ 3m)**

WIFI Ant. 8+10	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 50 5250MHz		10500	47.69	-20.51	68.2	54.26	39.9	9.95	56.42	100	0	P	H
		15750	46.2	-27.8	74	51.31	38.1	12.53	55.74	100	0	P	H
													H
													H
		10500	46.96	-21.24	68.2	53.53	39.9	9.95	56.42	100	0	P	V
		15750	45.58	-28.42	74	50.69	38.1	12.53	55.74	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ax HE160 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
8+10		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full LF		31.94	21.28	-18.72	40	29.4	23.62	0.49	32.23	-	-	P	H
		157.07	26.34	-17.16	43.5	40.61	16.84	1.11	32.22	-	-	P	H
		267.65	27.67	-18.33	46	38.98	19.37	1.41	32.09	-	-	P	H
		448.07	27.88	-18.12	46	35.05	23.08	1.81	32.06	-	-	P	H
		758.47	33.44	-12.56	46	34.87	28.02	2.37	31.82	100	0	P	H
		958.29	32.66	-13.34	46	30.24	30.6	2.72	30.9	-	-	P	H
													H
													H
													H
													H
													H
													H
		37.76	27.81	-12.19	40	38.82	20.72	0.53	32.26	100	-	P	V
		169.68	23.8	-19.7	43.5	39.1	15.8	1.15	32.25	-	-	P	V
		426.73	27.49	-18.51	46	34.7	22.9	1.77	31.88	-	-	P	V
		543.13	29.75	-16.25	46	35.66	24.53	1.98	32.42	-	-	P	V
		760.41	33.52	-12.48	46	34.96	28.01	2.37	31.82	-	-	P	V
		951.5	33.33	-12.67	46	31.05	30.57	2.69	30.98	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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