



FCC RADIO TEST REPORT

FCC ID : 2AG7G-J1A
Equipment : Plume Adaptive Wi-Fi
Brand Name : Plume Design, Inc.
Model Name : J1A
Applicant : Plume Design, Inc.
325 Lytton Ave., Palo Alto, CA 94301
Manufacturer : Plume Design, Inc.
325 Lytton Ave., Palo Alto, CA 94301
Standard : FCC Part 15 Subpart E §15.407

The product was received on Oct. 15, 2021 and testing was performed from Oct. 21, 2021 to Dec. 30, 2021. 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 from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, 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	6
1.3 Testing Location	6
1.4 Applicable Standards	7
2 Test Configuration of Equipment Under Test	8
2.1 Carrier Frequency and Channel	8
2.2 Test Mode	9
2.3 Connection Diagram of Test System	10
2.4 Support Unit used in test configuration and system	11
2.5 EUT Operation Test Setup	11
2.6 Measurement Results Explanation Example	11
3 Test Result.....	12
3.1 26dB & 99% Occupied Bandwidth Measurement.....	12
3.2 Maximum Conducted Output Power Measurement	17
3.3 Power Spectral Density Measurement	18
3.4 Unwanted Emissions Measurement	33
3.5 AC Conducted Emission Measurement	39
3.6 Antenna Requirements	41
4 List of Measuring Equipment.....	43
5 Uncertainty of Evaluation	45
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	Issue Date
FR1O0638C	01	Initial issue of report	Jan. 18, 2022

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	1.16 dB under the limit at 15720.000 MHz
3.5	15.207	AC Conducted Emission	Pass	11.15 dB under the limit at 0.688 MHz
3.6	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 product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Danny Lee

Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/n/ac/ax and UWB.

Product Feature	
Antenna Type	WLAN
	<2400 MHz ~ 2483.5 MHz> <Ant. 3>: IFA Antenna <Ant. 4>: IFA Antenna <5180 MHz ~ 5240 MHz> <Ant. 1>: IFA Antenna <Ant. 2>: IFA Antenna <Ant. 3>: IFA Antenna <Ant. 4>: IFA Antenna <5260 MHz ~ 5320 MHz> <Ant. 1>: IFA / Slot Antenna <Ant. 2>: IFA / Slot Antenna <Ant. 3>: IFA / Slot Antenna <Ant. 4>: IFA / Slot Antenna <5500MHz ~ 5825 MHz> <Ant. 1>: IFA / Slot Antenna <Ant. 2>: IFA / Slot Antenna <Ant. 3>: IFA / Slot Antenna <Ant. 4>: IFA / Slot Antenna <5925 MHz ~ 6425 MHz> <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna <Ant. 8>: IFA Antenna <6425 MHz ~ 6525 MHz> <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna <Ant. 8>: IFA Antenna <6525 MHz ~ 6875 MHz> <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna <Ant. 8>: IFA Antenna <6875 MHz ~ 7125 MHz> <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna <Ant. 8>: IFA Antenna Bluetooth - LE: IFA Antenna UWB: IFA Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 1: 3.0
		Ant. 2: 2.8
		Ant. 3: 2.4
		Ant. 4: 2.3

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

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 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	CO05-HY, 03CH07-HY

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	TH05-HY (TAF Code: 3786)
Remark	The Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory.

FCC designation No.: TW1190 and TW3786



1.4 Applicable Standards

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

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

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Z plane as worst plane.
- 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		

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "[#]" are 802.11ac VHT80 and 802.11ax HE80.

2.2 Test Mode

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

MIMO Mode

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

TXBF Mode

Modulation	Data Rate
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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (2.4GHz) Link + WLAN (5GHz) Link + WLAN (6GHz) Link + UWB Link + LAN Link + WAN Link

<CDD Mode>

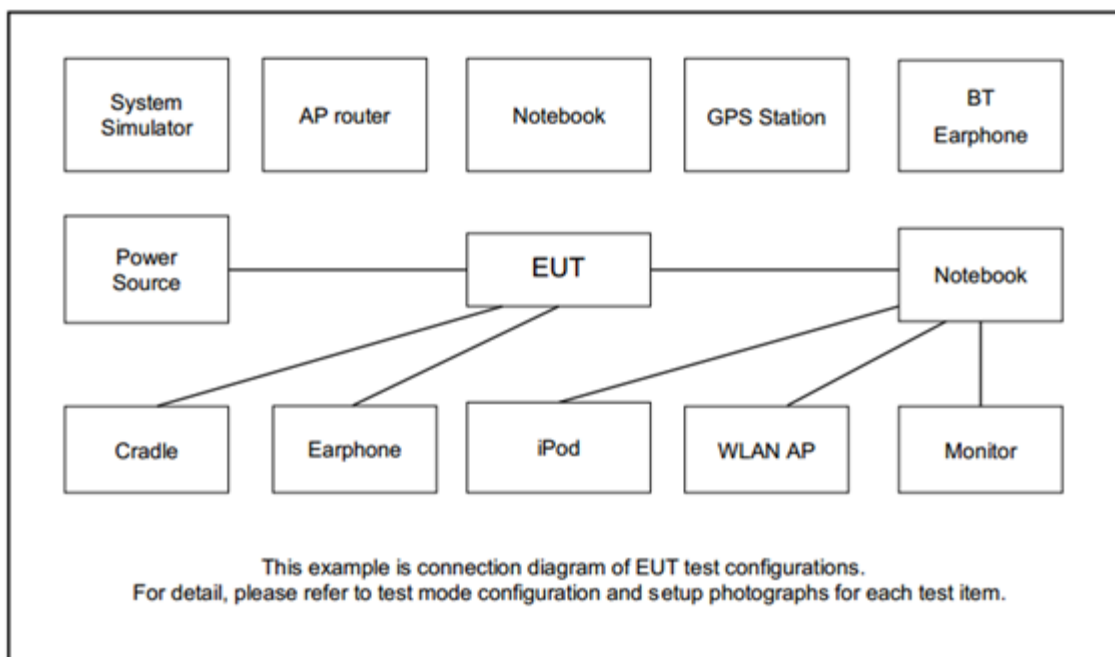
Ch. #		Band I : 5150-5250 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	36	36	38	-
M	Middle	44	44	-	42
H	High	48	48	46	-

<TXBF Mode>

Ch. #		Band I : 5150-5250 MHz		
		802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	36	38	-
M	Middle	44	-	42
H	High	48	46	-

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by 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.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	P79G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	PC	msi	9461NGW	PD99461NG	N/A	Unshielded, 1.8 m
6.	Plume Adaptive Wi-Fi	Plume Design Inc.	J1A	2AG7G-J1A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QSPR Version 5.0-00198” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “Putty Release 0.60” software tool was used to enable the EUT to transmit signals continuously.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

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.

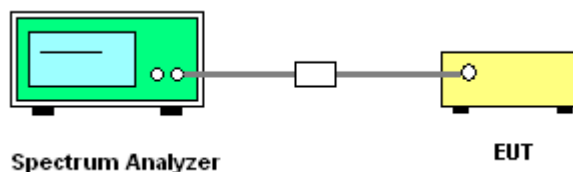
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



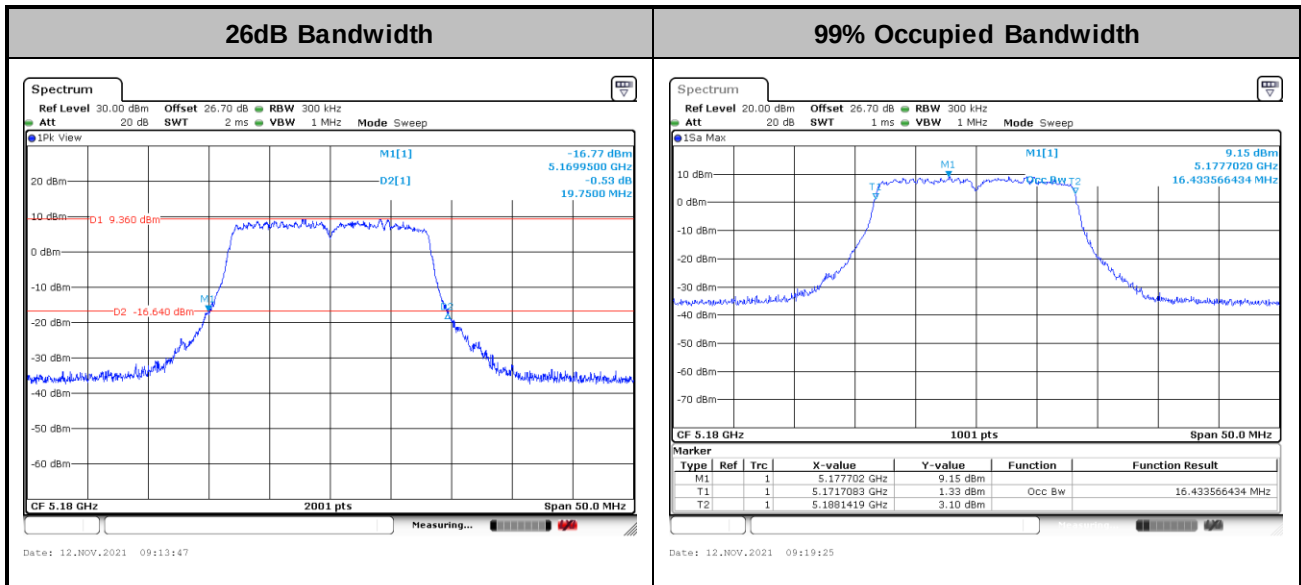
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



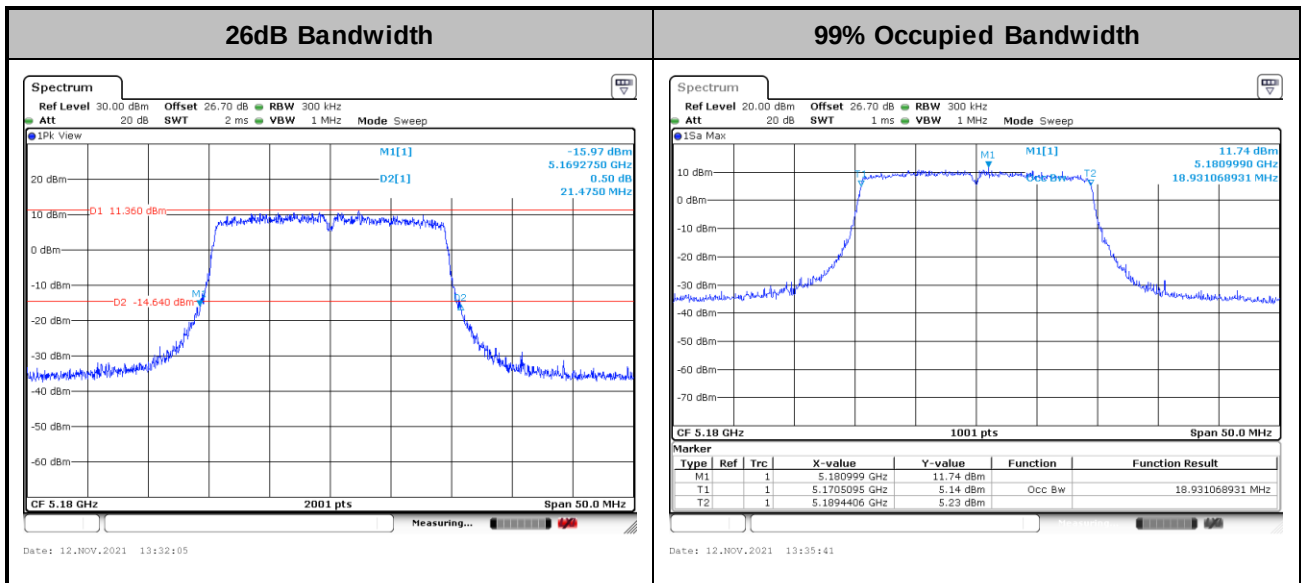
<CDD Mode>

<802.11a CH36>



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

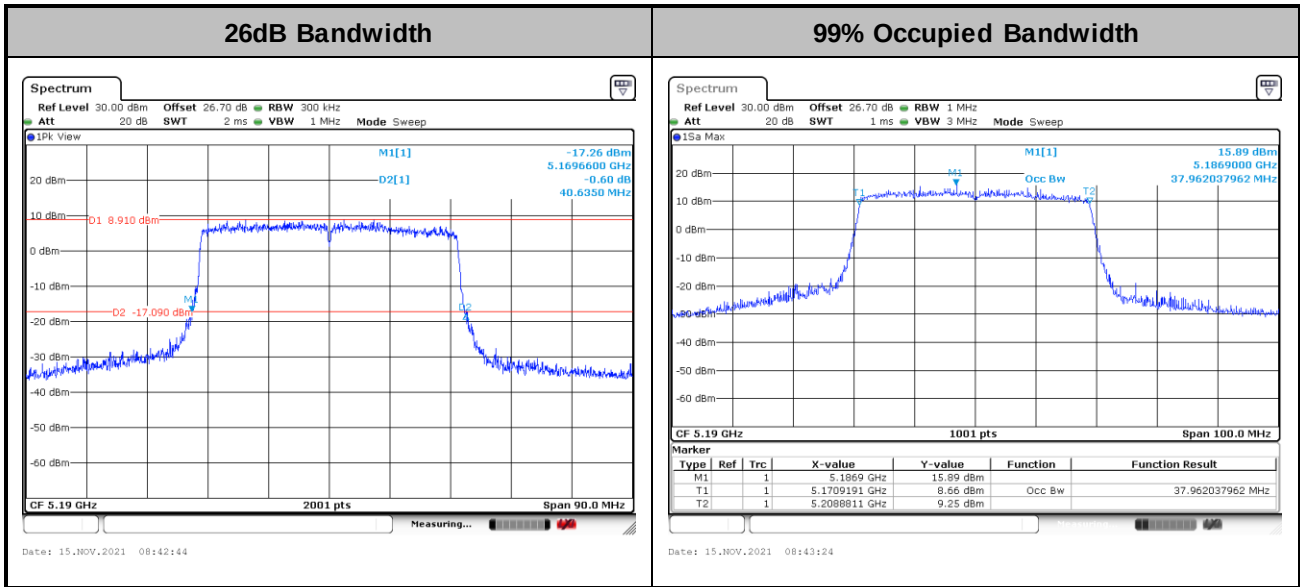
<802.11ax HE20 CH36>



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

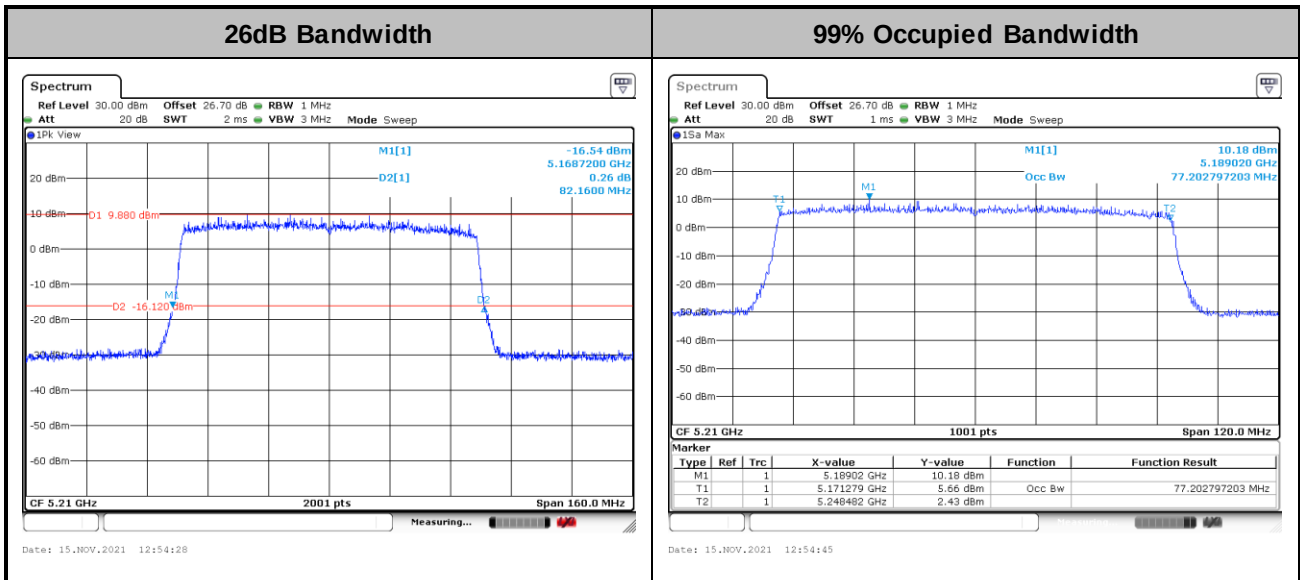


<802.11ax HE40 CH38>



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

<802.11ax HE80 CH42>

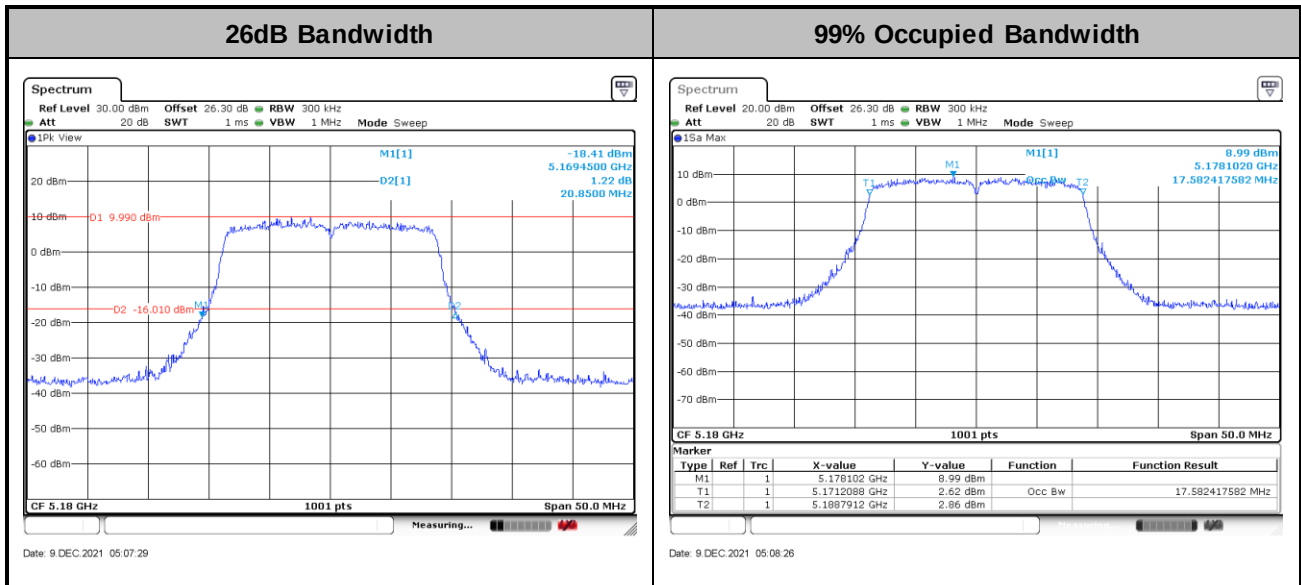


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



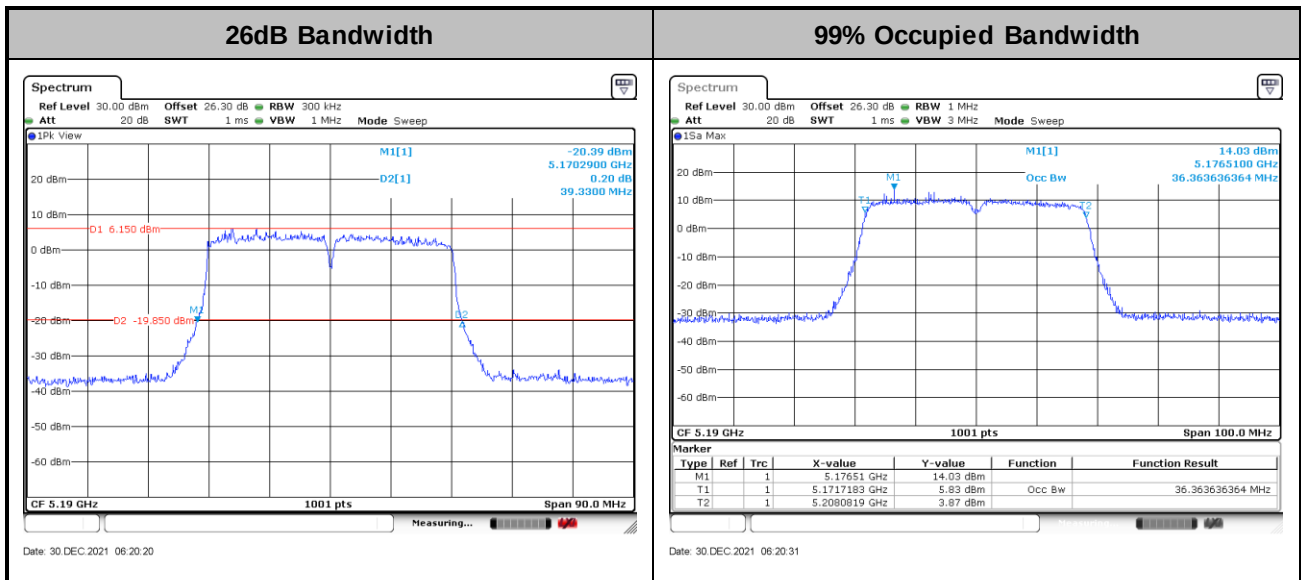
<TXBF Modes>

<802.11ax HE20 CH36>



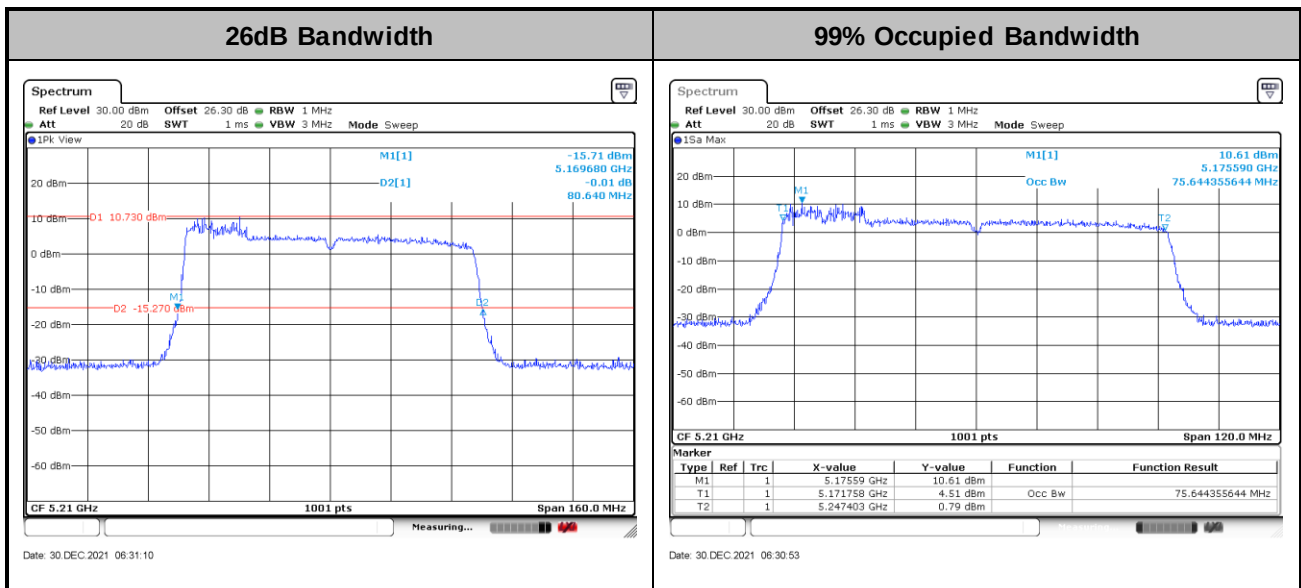
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40 CH38>



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

<802.11ax HE80 CH42>



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.

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

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

3.2.2 Measuring Instruments

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

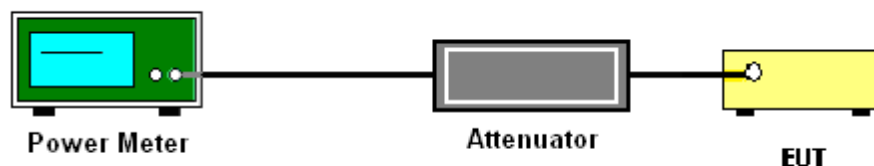
3.2.3 Test Procedures

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

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

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

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.

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

Method SA-3

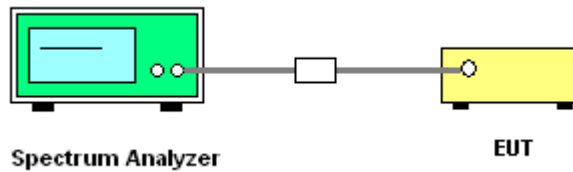
(power averaging (rms) detection with max hold):

- 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 is connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

The total final Power Spectral Density is from a device with 4 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2, output 3 and output 4 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup

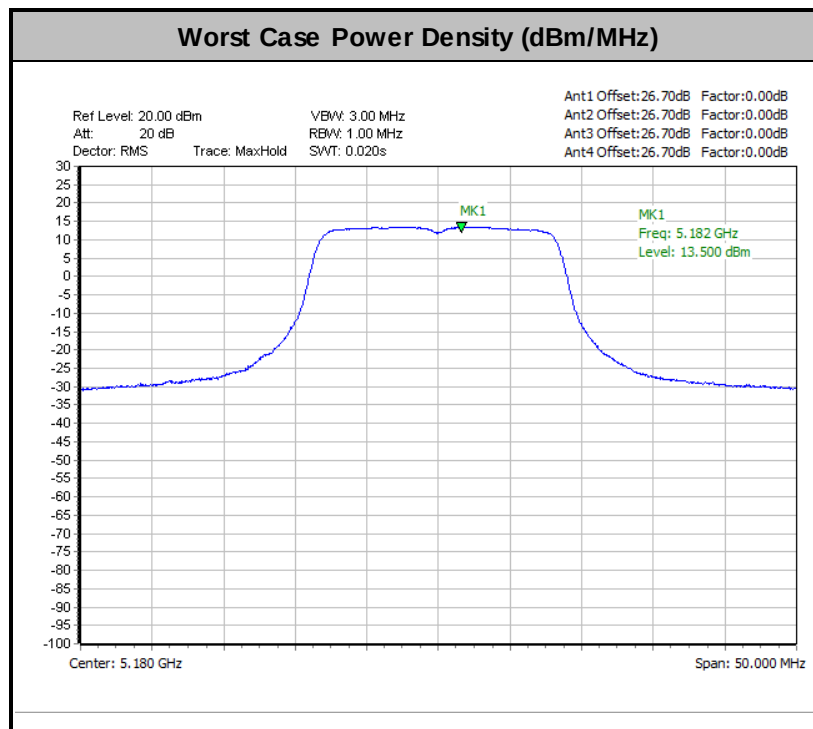


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<CDD Modes>

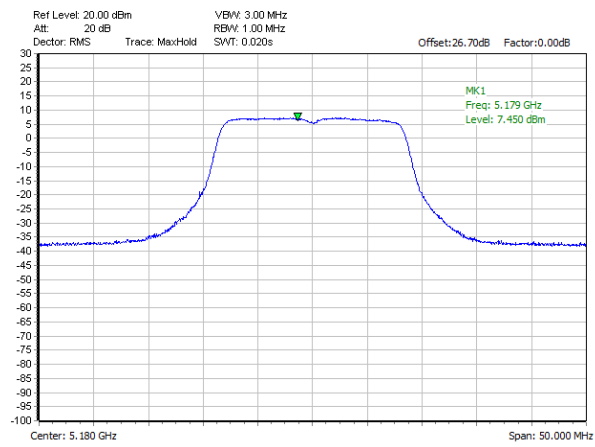
<802.11a Mode>



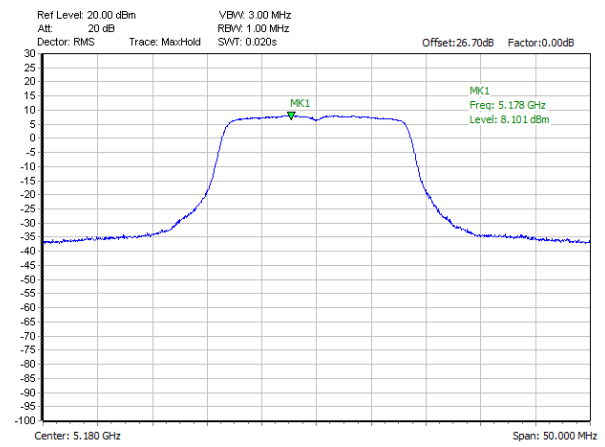
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



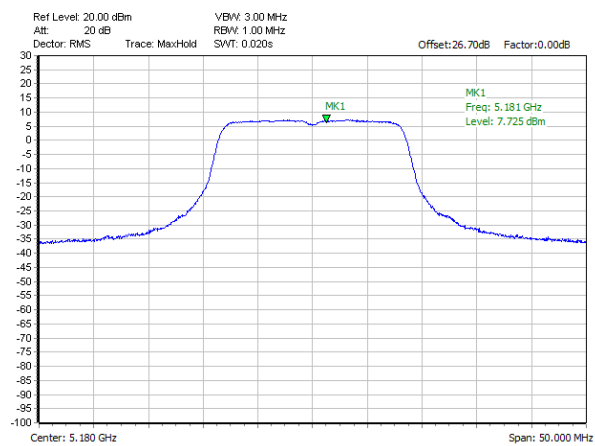
Worst Case Power Density Trace 1 (Ant 1)



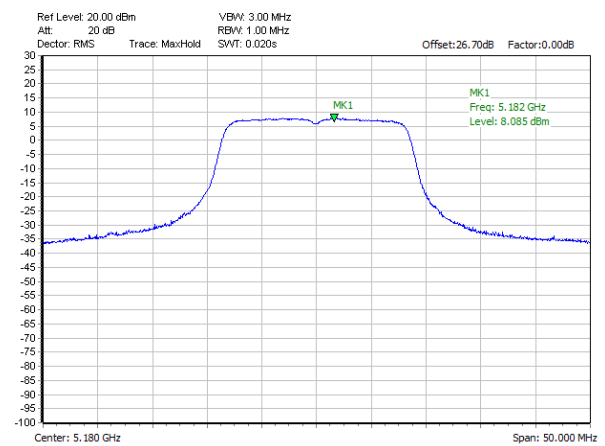
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)

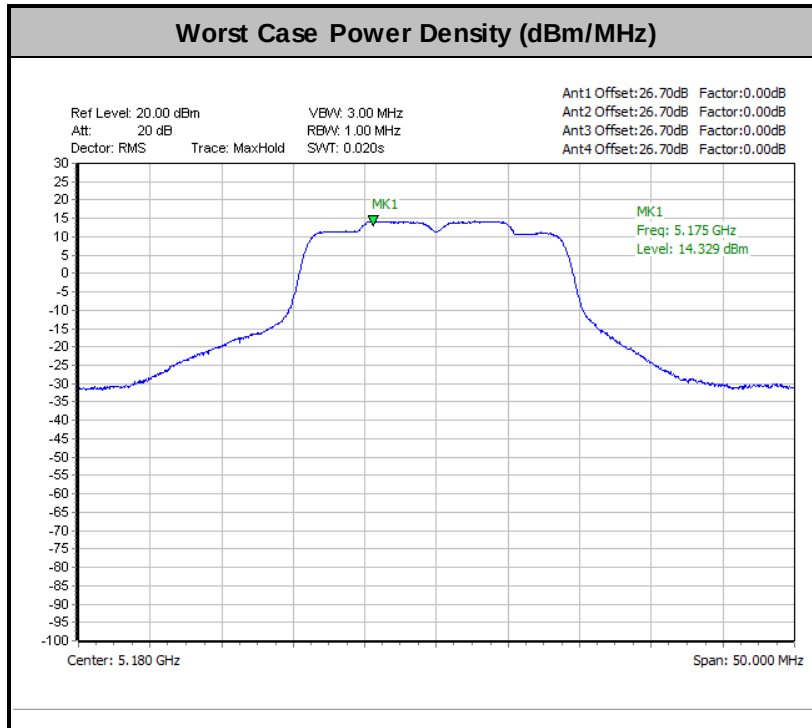


Worst Case Power Density Trace 2 (Ant 4)





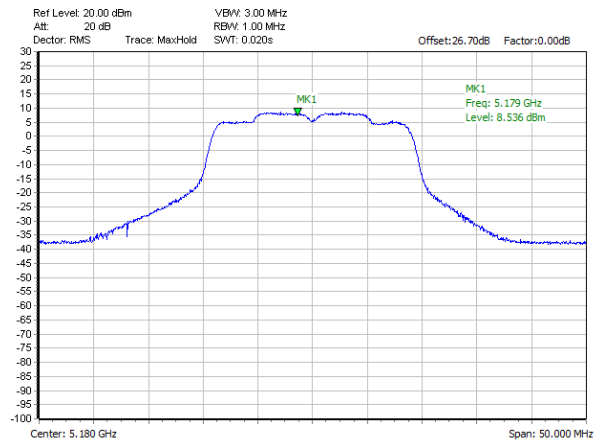
<802.11ax HE20 Mode>



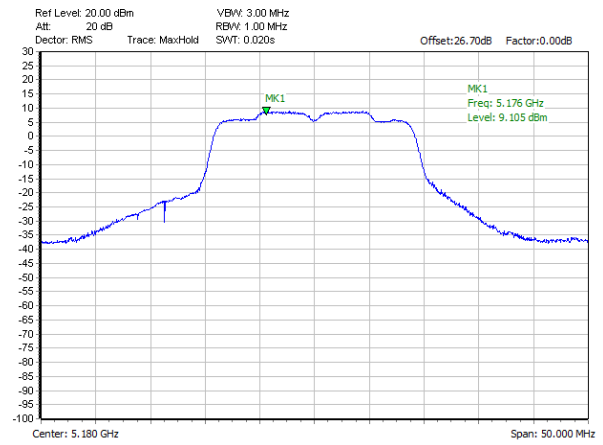
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



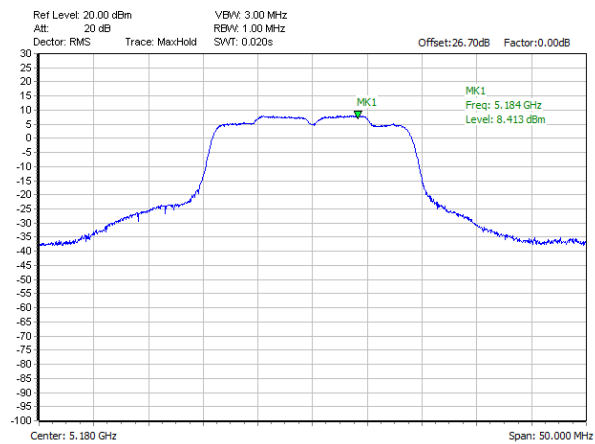
Worst Case Power Density Trace 1 (Ant 1)



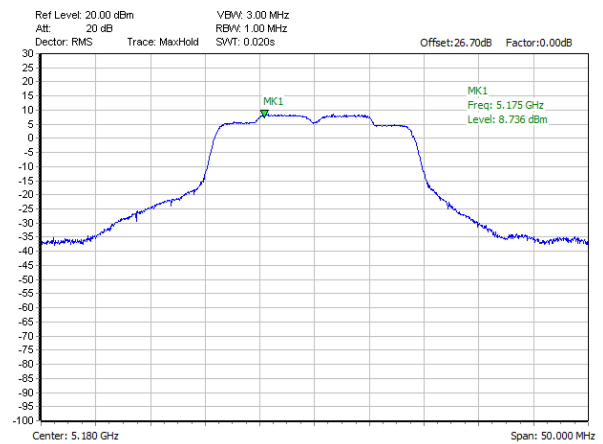
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)

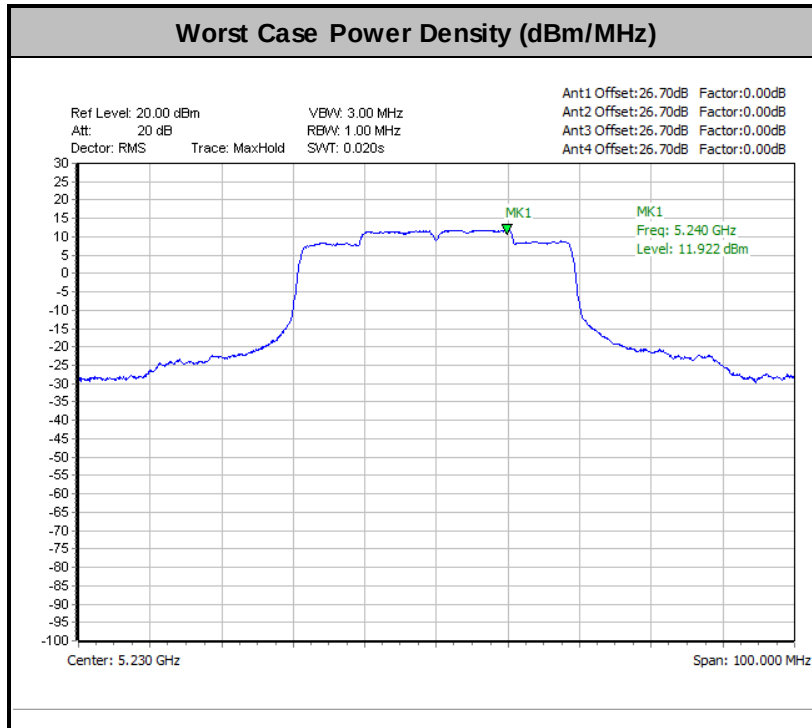


Worst Case Power Density Trace 2 (Ant 4)

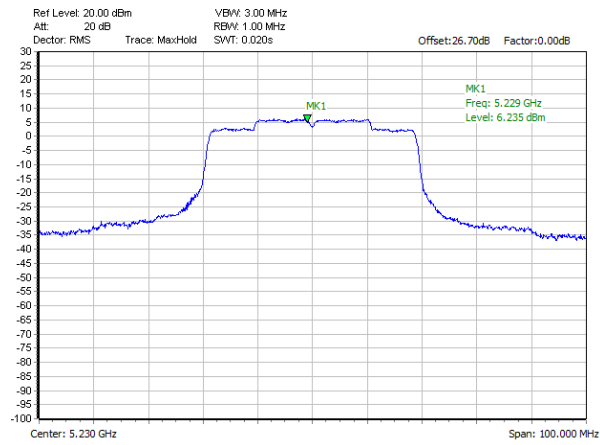
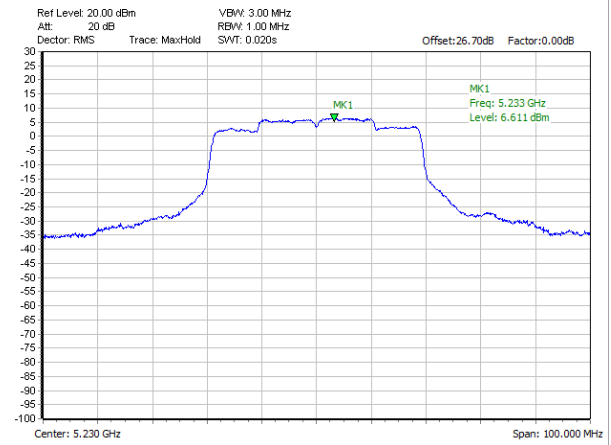
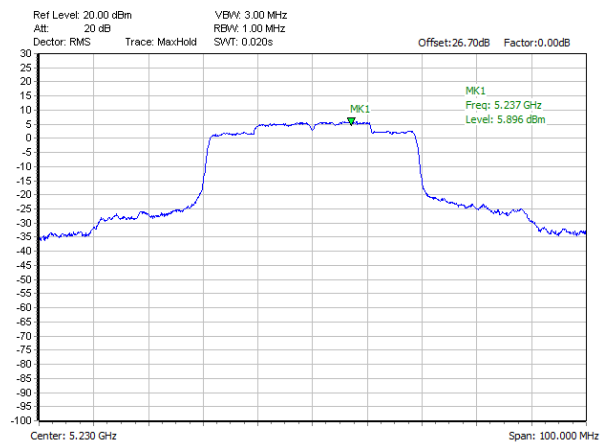
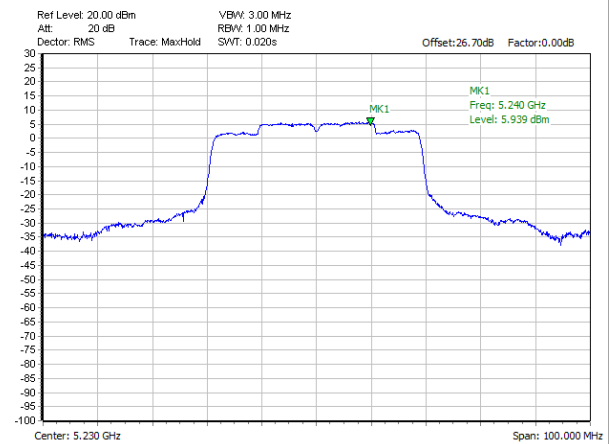




<802.11ax HE40 Mode>

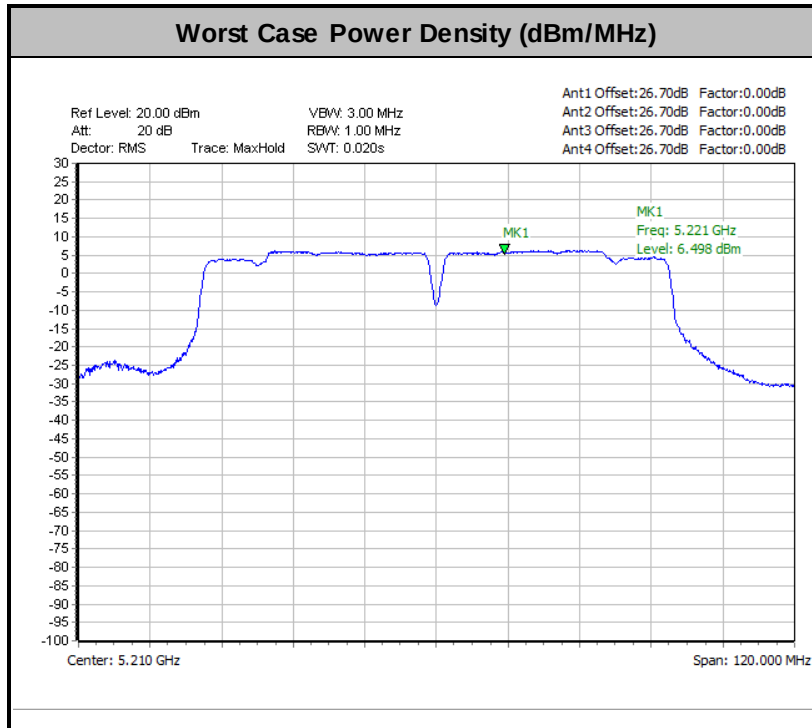


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

**Worst Case Power Density Trace 1 (Ant 1)****Worst Case Power Density Trace 2 (Ant 2)****Worst Case Power Density Trace 1 (Ant 3)****Worst Case Power Density Trace 2 (Ant 4)**



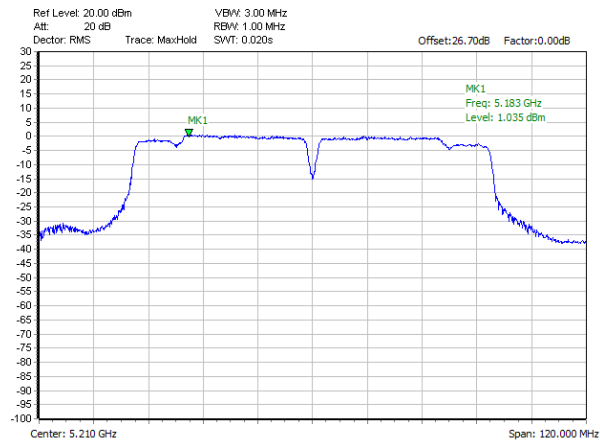
<802.11ax HE80 Mode>



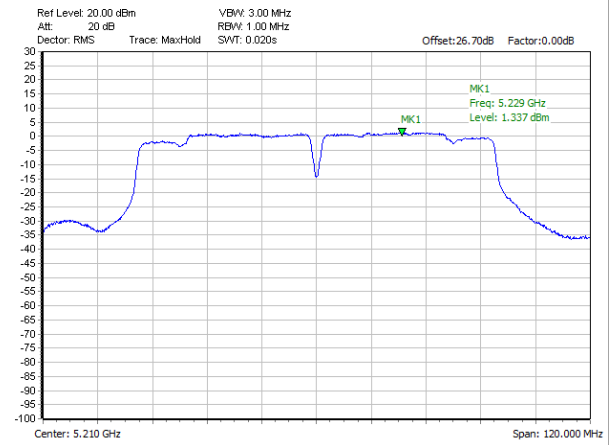
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



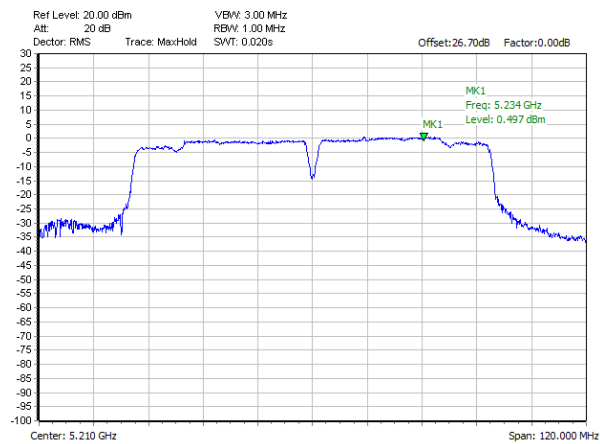
Worst Case Power Density Trace 1 (Ant 1)



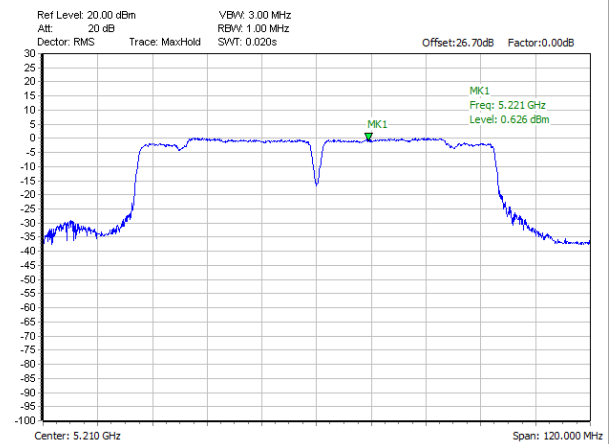
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)



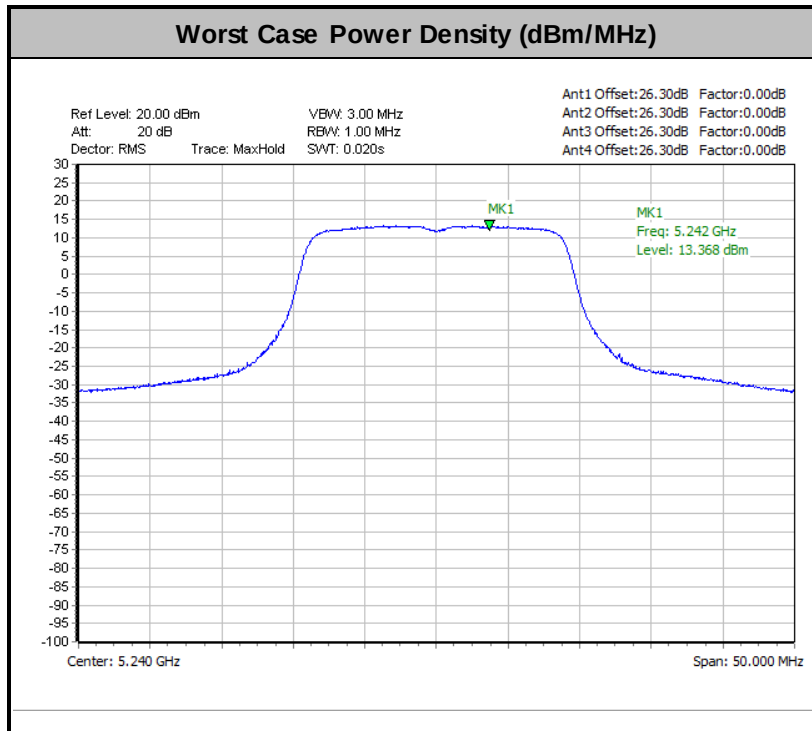
Worst Case Power Density Trace 2 (Ant 4)



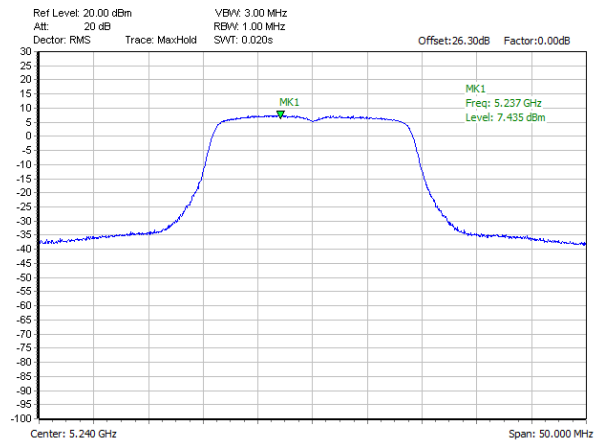
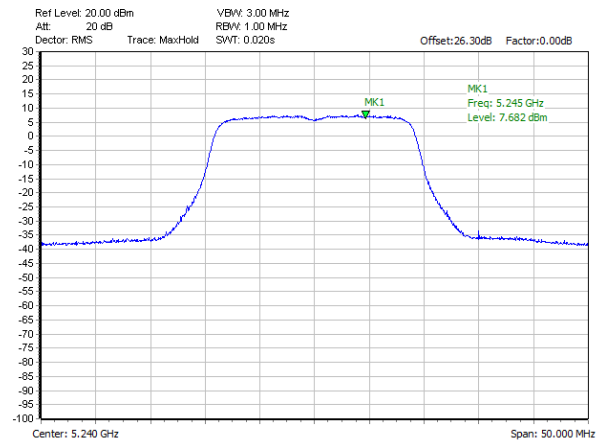
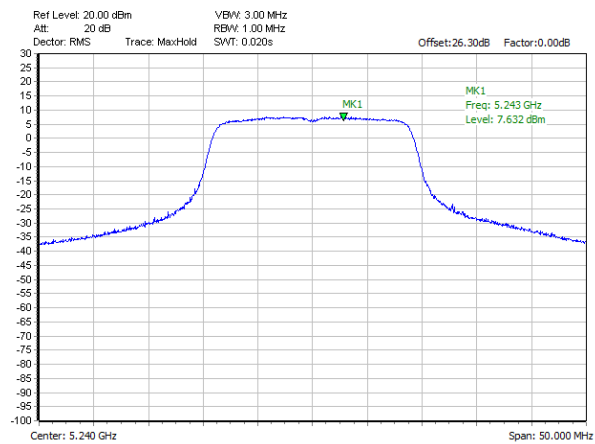
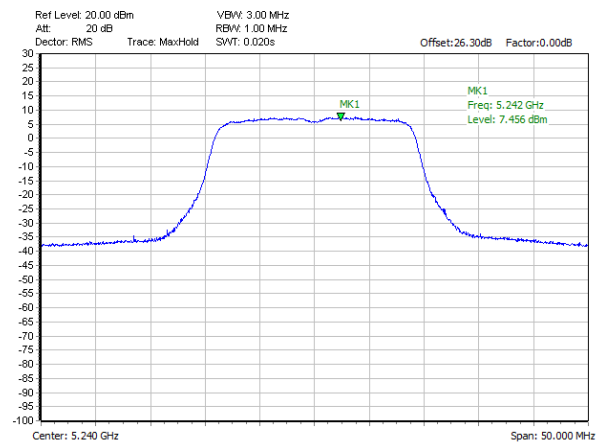


<TXBF Modes>

<802.11ax HE20 Mode>

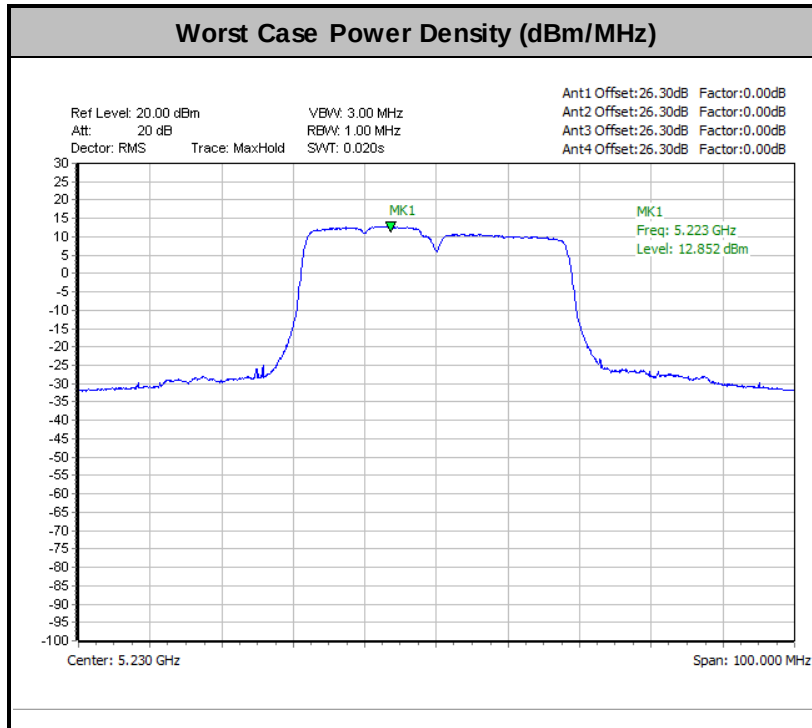


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

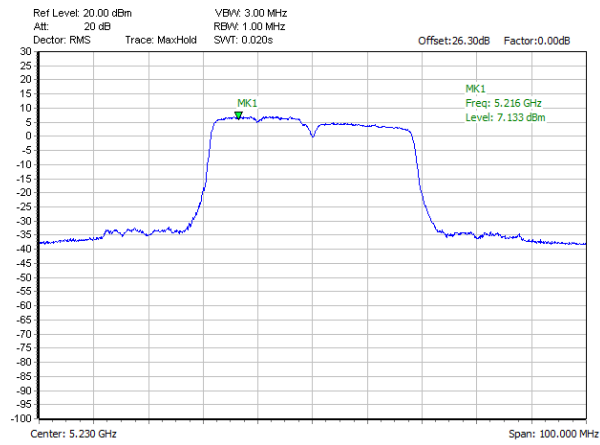
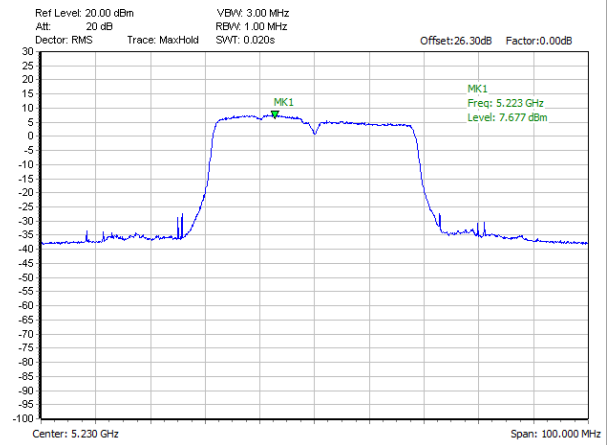
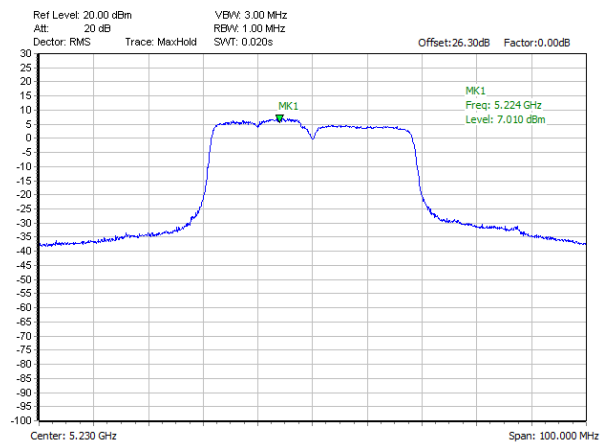
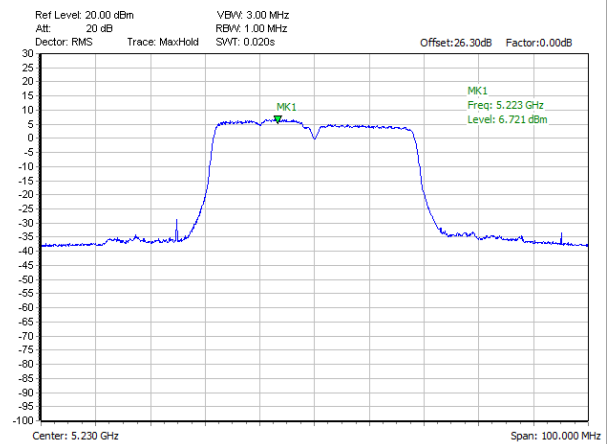
**Worst Case Power Density Trace 1 (Ant 1)****Worst Case Power Density Trace 2 (Ant 2)****Worst Case Power Density Trace 1 (Ant 3)****Worst Case Power Density Trace 2 (Ant 4)**



<802.11ax HE40 Mode>

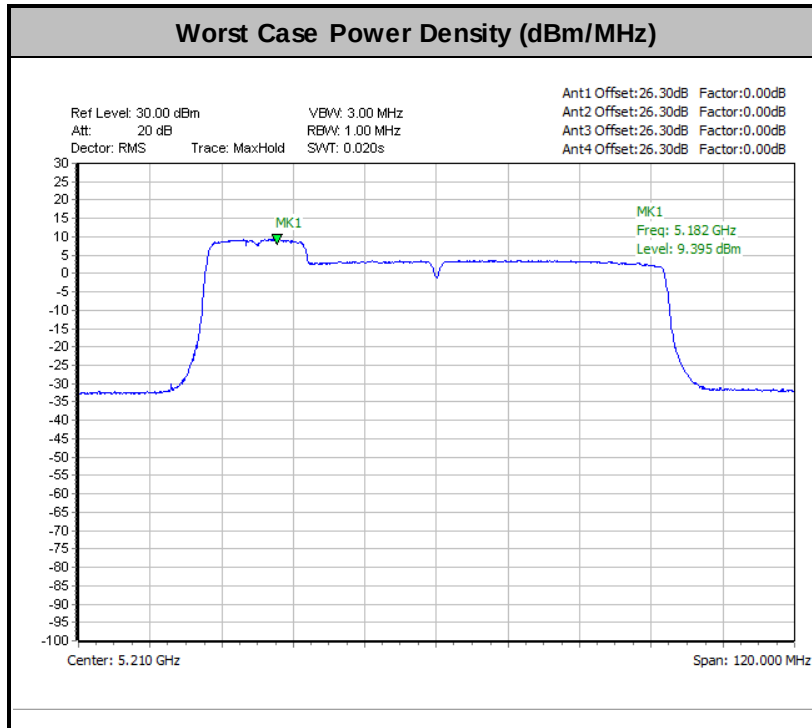


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

**Worst Case Power Density Trace 1 (Ant 1)****Worst Case Power Density Trace 2 (Ant 2)****Worst Case Power Density Trace 1 (Ant 3)****Worst Case Power Density Trace 2 (Ant 4)**



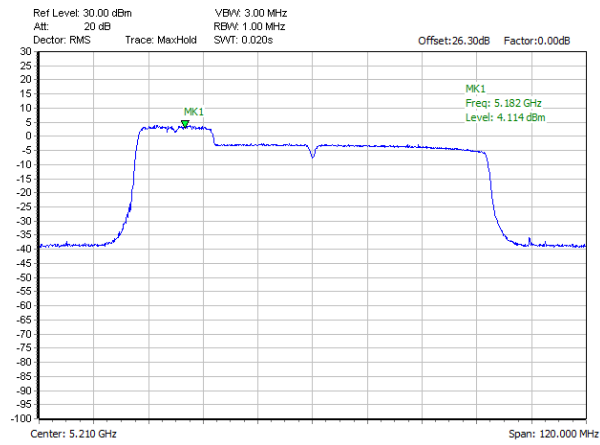
<802.11ax HE80 Mode>



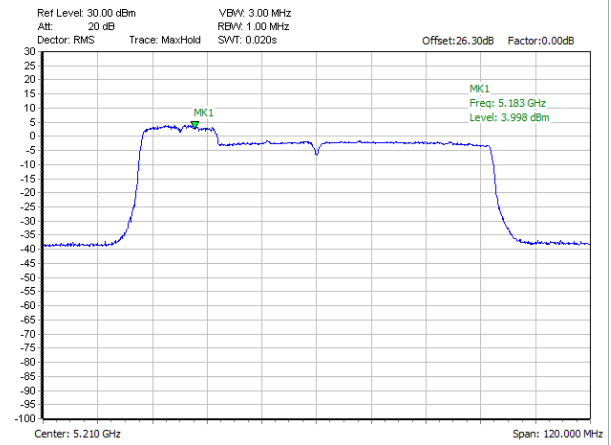
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



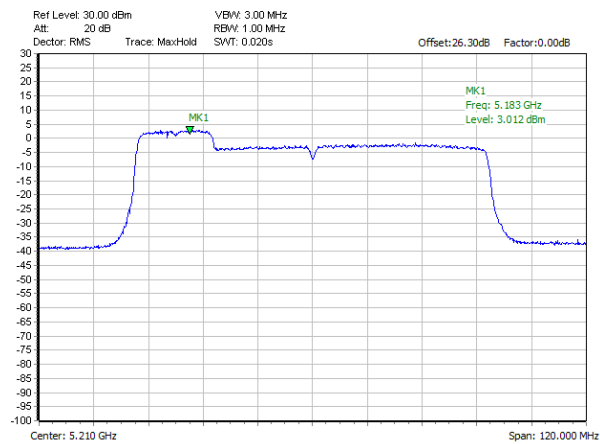
Worst Case Power Density Trace 1 (Ant 1)



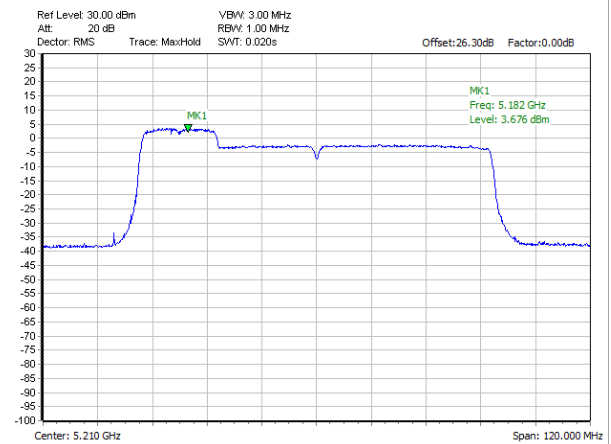
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)



Worst Case Power Density Trace 2 (Ant 4)



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.
- (2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

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

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

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

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

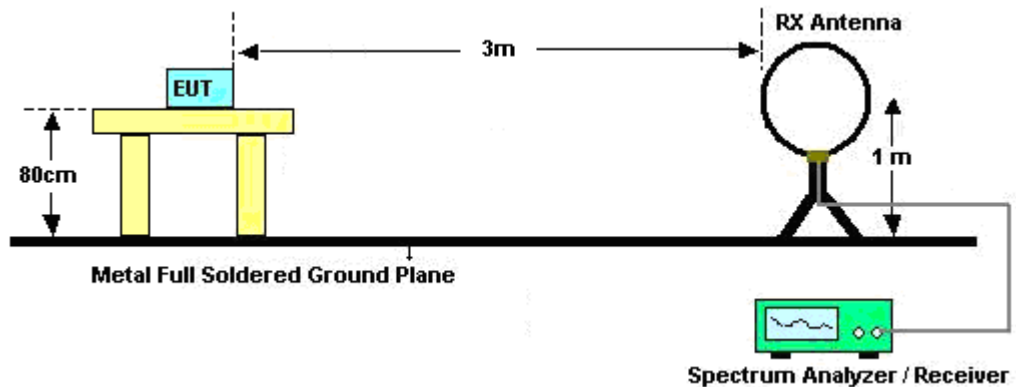
Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 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 is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

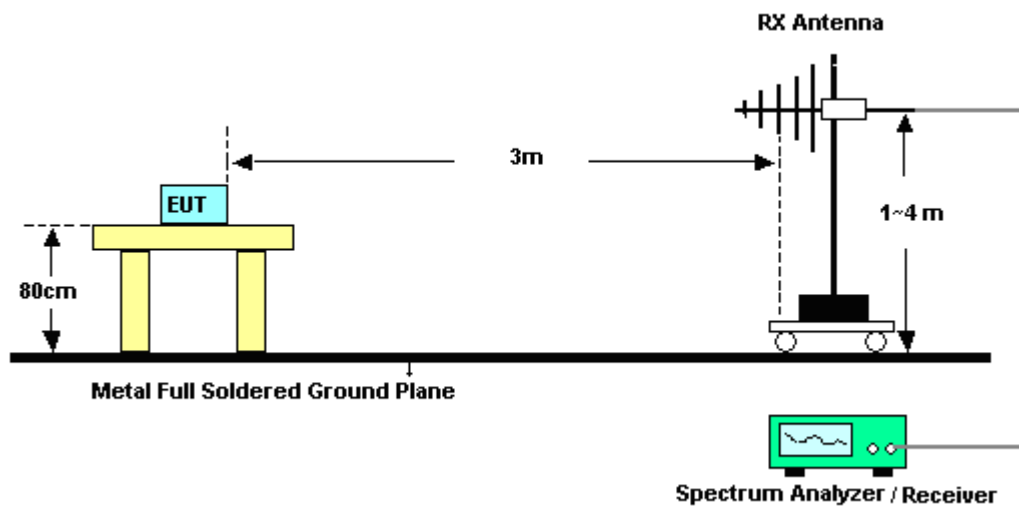
3.4.4 Test Setup

For radiated emissions below 30MHz

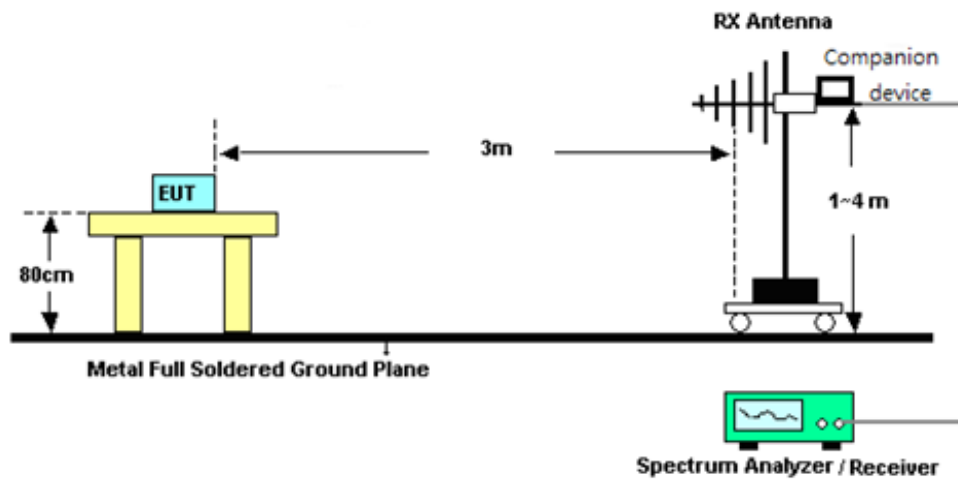


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

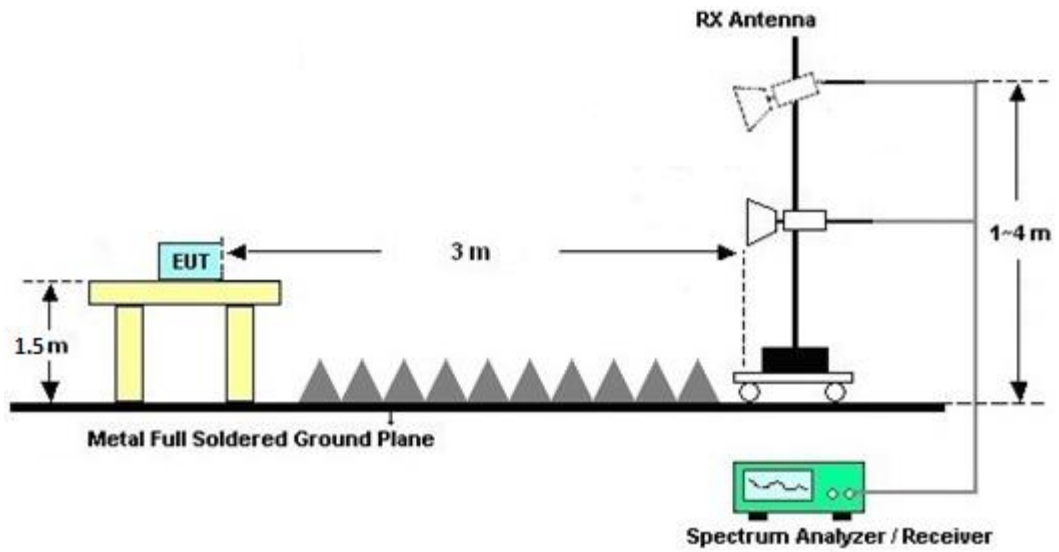


<TXBF Modes>

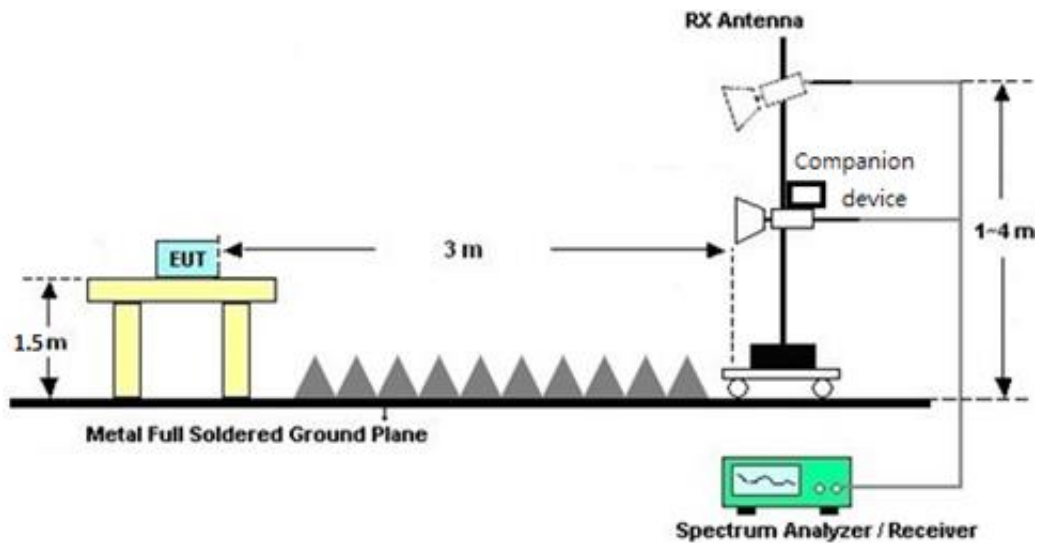


For radiated test from 1GHz to 18GHz

<CDD Mode>

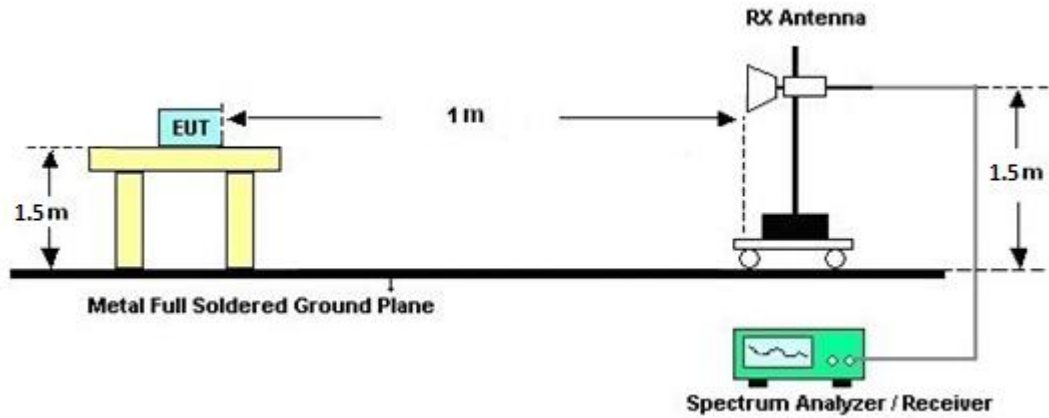


<TXBF Modes>

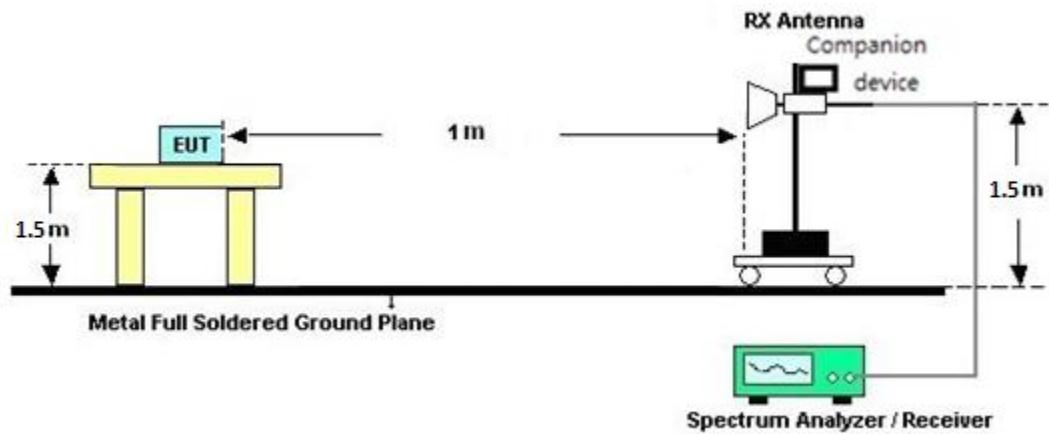


For radiated test above 18GHz

<CDD Mode>



<TXBF Modes>



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

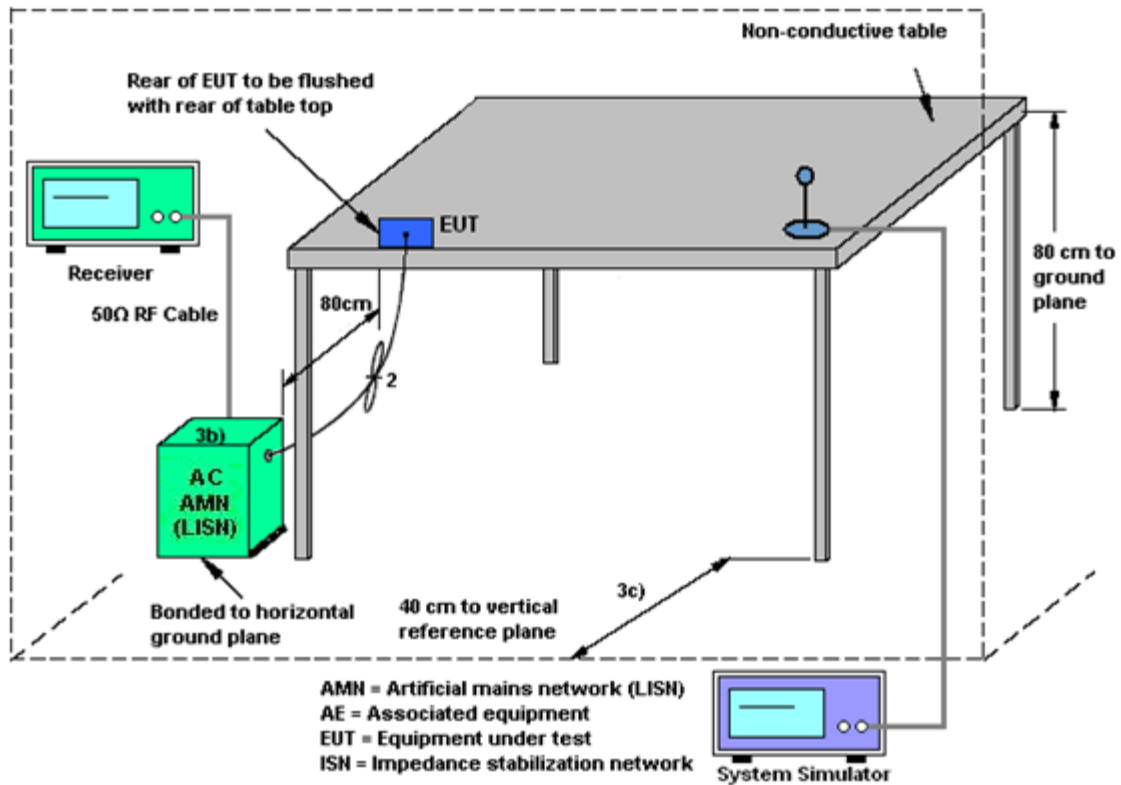
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

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

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

For power, the directional gain G_{ANT} 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 for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant. 1 (dBi)	Ant. 2 (dBi)	Ant. 3 (dBi)	Ant. 4 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	3.00	2.80	2.40	2.30	3.00	8.65	0.00	2.65

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

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

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)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.

					DG	DG	Power	PSD
					for	for	Limit	Limit
	Ant 1	Ant 2	Ant 3	Ant 4	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	3.00	2.80	2.40	2.30	8.65	8.65	2.65	2.65

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



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	100315	9 kHz~30 MHz	Jan. 04, 2021	Oct. 21, 2021~ Dec. 27, 2021	Jan. 03, 2022	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 28, 2021	Oct. 21, 2021~ Dec. 27, 2021	Apr. 27, 2022	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2020	Oct. 21, 2021~ Nov. 28, 2021	Nov. 30, 2021	Radiation (03CH07-HY)
Horn Antenna	ESCO	3117	00066584	1GHz~18GHz	Oct. 25, 2021	Nov. 29, 2021~ Dec. 27, 2021	Oct. 24, 2022	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Dec. 02, 2020	Oct. 21, 2021~ Nov. 29, 2021	Dec. 01, 2021	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 30, 2021	Nov. 30, 2021~ Dec. 27, 2021	Nov. 29, 2022	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 04, 2021	Oct. 21, 2021~ Dec. 27, 2021	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 22, 2021	Oct. 21, 2021~ Dec. 27, 2021	Apr. 21, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 04, 2021	Oct. 21, 2021~ Dec. 27, 2021	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 23, 2021	Oct. 21, 2021~ Dec. 27, 2021	Jul. 22, 2022	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2021	Oct. 21, 2021~ Dec. 27, 2021	Jul. 21, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682-4	30MHz to 18GHz	Feb. 24, 2021	Oct. 21, 2021~ Dec. 27, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971-4	9kHz to 18GHz	Feb. 24, 2021	Oct. 21, 2021~ Dec. 27, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655-4	9kHz to 18GHz	Feb. 24, 2021	Oct. 21, 2021~ Dec. 27, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,80 1606/2	18GHz~40GHz	Feb. 24, 2021	Oct. 21, 2021~ Dec. 27, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 17, 2021	Oct. 21, 2021~ Dec. 27, 2021	Sep. 16, 2022	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Oct. 21, 2021~ Dec. 27, 2021	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Oct. 21, 2021~ Dec. 27, 2021	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Oct. 21, 2021~ Dec. 27, 2021	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 09, 2021	Oct. 21, 2021~ Dec. 27, 2021	Mar. 08, 2022	Radiation (03CH07-HY)
Power Sensor	DARE	RPR3006W	13100030SNO 31(NO:182)	10MHz~6GHz	Dec. 30, 2020	Nov. 11, 2021 Dec. 22, 2021	Dec. 29, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W #010	RPR6W-2101 002(NO:123)	10MHz~8GHz	Feb. 03, 2021	Dec. 08, 2021 Dec. 30, 2021	Feb. 02, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Nov. 11, 2021 Dec. 30, 2021	Aug. 29, 2022	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW191204 (BOX8)	N/A	Jan. 07, 2021	Nov. 11, 2021 Dec. 30, 2021	Jan. 06, 2022	Conducted (TH05-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	Dec. 14, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Dec. 14, 2021	Nov. 30, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Dec. 14, 2021	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Dec. 14, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 28, 2021	Dec. 14, 2021	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Dec. 14, 2021	Dec. 30, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
--	--------

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.0 dB
--	--------

Appendix A. Test Result of Conducted Test Items

<CDD Mode>

Test Engineer	Eason Huang	Temperature	21~24	°C
Test Date	2021/11/11~2021/12/22	Relative Humidity	52~56	%

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4
11a	6Mbps	4	36	5180	19.75	19.53	19.93	19.48	16.43	16.43	16.43	16.43	22.16
11a	6Mbps	4	44	5220	19.45	19.73	19.73	19.58	16.38	16.43	16.48	16.43	22.14
11a	6Mbps	4	48	5240	19.88	19.58	20.03	19.40	16.43	16.43	16.43	16.43	22.16

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM			
11a	6Mbps	4	36	5180	18.40	19.10	18.20	18.70	24.63	30.00	3.00	Pass
11a	6Mbps	4	44	5220	17.70	17.90	17.20	17.50	23.60	30.00	3.00	Pass
11a	6Mbps	4	48	5240	17.80	18.30	17.60	17.50	23.83	30.00	3.00	Pass
HT20	MCS0	4	36	5180	18.30	19.00	18.20	18.40	24.51	30.00	3.00	Pass
HT20	MCS0	4	44	5220	18.10	18.10	17.60	17.70	23.90	30.00	3.00	Pass
HT20	MCS0	4	48	5240	17.70	18.10	17.70	17.50	23.78	30.00	3.00	Pass
HT40	MCS0	4	38	5190	17.60	18.30	17.20	17.80	23.76	30.00	3.00	Pass
HT40	MCS0	4	46	5230	19.00	19.20	18.80	18.50	24.90	30.00	3.00	Pass
VHT20	MCS0	4	36	5180	18.30	19.00	18.20	18.40	24.51	30.00	3.00	Pass
VHT20	MCS0	4	44	5220	18.10	18.10	17.60	17.70	23.90	30.00	3.00	Pass
VHT20	MCS0	4	48	5240	17.70	18.10	17.70	17.50	23.78	30.00	3.00	Pass
VHT40	MCS0	4	38	5190	17.60	18.30	17.20	17.80	23.76	30.00	3.00	Pass
VHT40	MCS0	4	46	5230	19.00	19.20	18.80	18.50	24.90	30.00	3.00	Pass
VHT80	MCS0	4	42	5210	16.00	16.40	15.90	16.10	22.12	30.00	3.00	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4								
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
					Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
11a	6Mbps	4	36	5180	13.50	14.35	8.65	Pass
11a	6Mbps	4	44	5220	12.54	14.35	8.65	Pass
11a	6Mbps	4	48	5240	12.74	14.35	8.65	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU tone	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4
HE20	MCS0	4	36	5180	Full	21.48	21.13	21.63	21.13	18.93	18.93	18.93	18.93	22.77
HE20	MCS0	4	36	5180	M	23.20	22.80	22.68	24.55	19.13	19.13	19.13	19.18	22.82
HE20	MCS0	4	36	5180	BE	20.03	20.63	20.55	19.93	17.33	17.38	17.38	17.38	22.39
HE20	MCS0	4	44	5220	Full	21.28	21.30	21.60	21.28	18.93	18.88	18.93	18.93	22.76
HE20	MCS0	4	44	5220	M	23.28	23.30	24.20	22.75	19.13	19.08	19.18	19.08	22.81
HE20	MCS0	4	44	5220	BE	19.63	20.83	19.93	20.95	17.38	17.38	17.38	17.33	22.39
HE20	MCS0	4	48	5240	Full	21.28	21.23	21.53	21.13	18.93	18.88	18.98	18.88	22.76
HE20	MCS0	4	48	5240	M	23.48	23.13	24.10	23.00	19.08	19.08	19.08	19.13	22.81
HE20	MCS0	4	48	5240	BE	19.95	20.83	19.53	20.25	17.33	17.38	17.38	17.33	22.39
HE40	MCS0	4	38	5190	Full	40.64	40.68	41.04	40.77	37.96	37.96	38.06	38.06	23.01
HE40	MCS0	4	38	5190	M	44.42	43.25	44.33	43.38	38.76	38.86	38.96	38.86	23.01
HE40	MCS0	4	38	5190	BE	40.10	42.44	40.10	40.14	37.06	37.56	37.36	37.16	23.01
HE40	MCS0	4	46	5230	Full	40.46	40.73	41.90	40.32	37.96	37.96	38.06	38.06	23.01
HE40	MCS0	4	46	5230	M	43.97	43.34	43.47	43.70	38.86	38.86	39.06	38.76	23.01
HE40	MCS0	4	46	5230	BE	40.55	42.08	41.27	39.87	37.06	37.46	37.16	37.06	23.01
HE80	MCS0	4	42	5210	Full	82.16	82.72	82.72	82.56	77.20	77.32	77.20	77.20	23.01
HE80	MCS0	4	42	5210	M	89.44	88.96	88.56	89.20	78.16	78.28	78.40	78.28	23.01
HE80	MCS0	4	42	5210	BE	85.76	86.32	99.52	84.88	76.36	76.48	76.48	76.24	23.01

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU tone	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM			
HE20	MCS0	4	36	5180	Full	18.40	19.10	18.30	18.50	24.61	30.00	3.00	Pass
HE20	MCS0	4	36	5180	M	15.20	16.10	15.10	15.60	21.54	30.00	3.00	Pass
HE20	MCS0	4	36	5180	BE	16.70	17.20	16.40	16.80	22.81	30.00	3.00	Pass
HE20	MCS0	4	44	5220	Full	18.20	18.20	17.70	17.80	24.00	30.00	3.00	Pass
HE20	MCS0	4	44	5220	M	15.10	15.20	14.60	14.60	20.90	30.00	3.00	Pass
HE20	MCS0	4	44	5220	BE	16.40	16.30	15.90	16.20	22.22	30.00	3.00	Pass
HE20	MCS0	4	48	5240	Full	17.80	18.20	17.80	17.60	23.88	30.00	3.00	Pass
HE20	MCS0	4	48	5240	M	15.10	15.30	14.80	14.80	21.03	30.00	3.00	Pass
HE20	MCS0	4	48	5240	BE	15.50	15.50	15.30	15.30	21.42	30.00	3.00	Pass
HE40	MCS0	4	38	5190	Full	17.70	18.40	17.30	17.90	23.86	30.00	3.00	Pass
HE40	MCS0	4	38	5190	M	13.30	14.10	13.00	13.80	19.59	30.00	3.00	Pass
HE40	MCS0	4	38	5190	BE	16.80	17.70	16.50	17.20	23.09	30.00	3.00	Pass
HE40	MCS0	4	46	5230	Full	19.10	19.30	18.90	18.60	25.00	30.00	3.00	Pass
HE40	MCS0	4	46	5230	M	16.40	16.60	16.10	16.10	22.33	30.00	3.00	Pass
HE40	MCS0	4	46	5230	BE	17.20	17.30	16.80	16.90	23.08	30.00	3.00	Pass
HE80	MCS0	4	42	5210	Full	16.10	16.50	16.00	16.20	22.22	30.00	3.00	Pass
HE80	MCS0	4	42	5210	M	13.40	13.90	13.30	13.50	19.55	30.00	3.00	Pass
HE80	MCS0	4	42	5210	BE	15.20	15.80	14.90	15.00	21.26	30.00	3.00	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU tone	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
						Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
HE20	MCS0	4	36	5180	Full	13.34	14.35	8.65	Pass
HE20	MCS0	4	36	5180	M	12.03	14.35	8.65	Pass
HE20	MCS0	4	36	5180	BE	14.33	14.35	8.65	Pass
HE20	MCS0	4	44	5220	Full	12.84	14.35	8.65	Pass
HE20	MCS0	4	44	5220	M	11.74	14.35	8.65	Pass
HE20	MCS0	4	44	5220	BE	14.12	14.35	8.65	Pass
HE20	MCS0	4	48	5240	Full	12.91	14.35	8.65	Pass
HE20	MCS0	4	48	5240	M	11.90	14.35	8.65	Pass
HE20	MCS0	4	48	5240	BE	13.26	14.35	8.65	Pass
HE40	MCS0	4	38	5190	Full	10.04	14.35	8.65	Pass
HE40	MCS0	4	38	5190	M	8.58	14.35	8.65	Pass
HE40	MCS0	4	38	5190	BE	11.68	14.35	8.65	Pass
HE40	MCS0	4	46	5230	Full	11.28	14.35	8.65	Pass
HE40	MCS0	4	46	5230	M	11.42	14.35	8.65	Pass
HE40	MCS0	4	46	5230	BE	11.92	14.35	8.65	Pass
HE80	MCS0	4	42	5210	Full	5.01	14.35	8.65	Pass
HE80	MCS0	4	42	5210	M	5.65	14.35	8.65	Pass
HE80	MCS0	4	42	5210	BE	6.50	14.35	8.65	Pass

Report Number : FR1O0638C

<TXBF Mode>

Test Engineer	Hank Hsu	Temperature	21~24	°C
Test Date	2021/12/08~2021/12/30	Relative Humidity	52~56	%

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM			
HT20	MCS0	4	36	5180	17.70	17.70	17.70	17.60	23.70	27.35	8.65	Pass
HT20	MCS0	4	44	5220	17.60	17.80	17.10	17.30	23.48	27.35	8.65	Pass
HT20	MCS0	4	48	5240	17.80	17.80	17.90	17.50	23.77	27.35	8.65	Pass
HT40	MCS0	4	38	5190	17.10	17.00	16.40	16.80	22.85	27.35	8.65	Pass
HT40	MCS0	4	46	5230	17.80	17.90	17.50	17.40	23.68	27.35	8.65	Pass
VHT20	MCS0	4	36	5180	17.70	17.70	17.70	17.60	23.70	27.35	8.65	Pass
VHT20	MCS0	4	44	5220	17.60	17.80	17.10	17.30	23.48	27.35	8.65	Pass
VHT20	MCS0	4	48	5240	17.80	17.80	17.90	17.50	23.77	27.35	8.65	Pass
VHT40	MCS0	4	38	5190	17.10	17.00	16.40	16.80	22.85	27.35	8.65	Pass
VHT40	MCS0	4	46	5230	17.80	17.90	17.50	17.40	23.68	27.35	8.65	Pass
VHT80	MCS0	4	42	5210	15.30	15.20	14.30	15.00	20.99	27.35	8.65	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU tone	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4
HE20	MCS0	4	36	5180	Full	20.85	20.85	21.35	20.95	17.58	17.63	17.63	17.58	22.45
HE20	MCS0	4	44	5220	Full	20.95	20.80	21.10	21.00	17.63	17.58	17.63	17.63	22.45
HE20	MCS0	4	48	5240	Full	21.05	20.75	21.60	20.95	17.58	17.63	17.63	17.63	22.45
HE40	MCS0	4	38	5190	Full	39.33	39.24	39.78	39.33	36.36	36.36	36.36	36.36	23.01
HE40	MCS0	4	46	5230	Full	39.51	39.87	39.96	39.06	36.36	36.36	36.46	36.36	23.01
HE80	MCS0	4	42	5210	Full	80.64	80.64	81.12	81.12	75.64	75.76	75.64	76.00	23.01

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU tone	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM			
HE20	MCS0	4	36	5180	Full	17.80	17.80	17.80	17.70	23.80	27.35	8.65	Pass
HE20	MCS0	4	44	5220	Full	17.70	17.90	17.20	17.40	23.58	27.35	8.65	Pass
HE20	MCS0	4	48	5240	Full	17.90	17.90	18.00	17.60	23.87	27.35	8.65	Pass
HE40	MCS0	4	38	5190	Full	17.20	17.10	16.50	16.90	22.95	27.35	8.65	Pass
HE40	MCS0	4	46	5230	Full	17.90	18.00	17.60	17.50	23.78	27.35	8.65	Pass
HE80	MCS0	4	42	5210	Full	15.40	15.30	14.40	15.10	21.09	27.35	8.65	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU tone	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
						Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
HE20	MCS0	4	36	5180	Full	13.03	14.35	8.65	Pass
HE20	MCS0	4	44	5220	Full	12.97	14.35	8.65	Pass
HE20	MCS0	4	48	5240	Full	13.37	14.35	8.65	Pass
HE40	MCS0	4	38	5190	Full	11.39	14.35	8.65	Pass
HE40	MCS0	4	46	5230	Full	12.85	14.35	8.65	Pass
HE80	MCS0	4	42	5210	Full	9.40	14.35	8.65	Pass



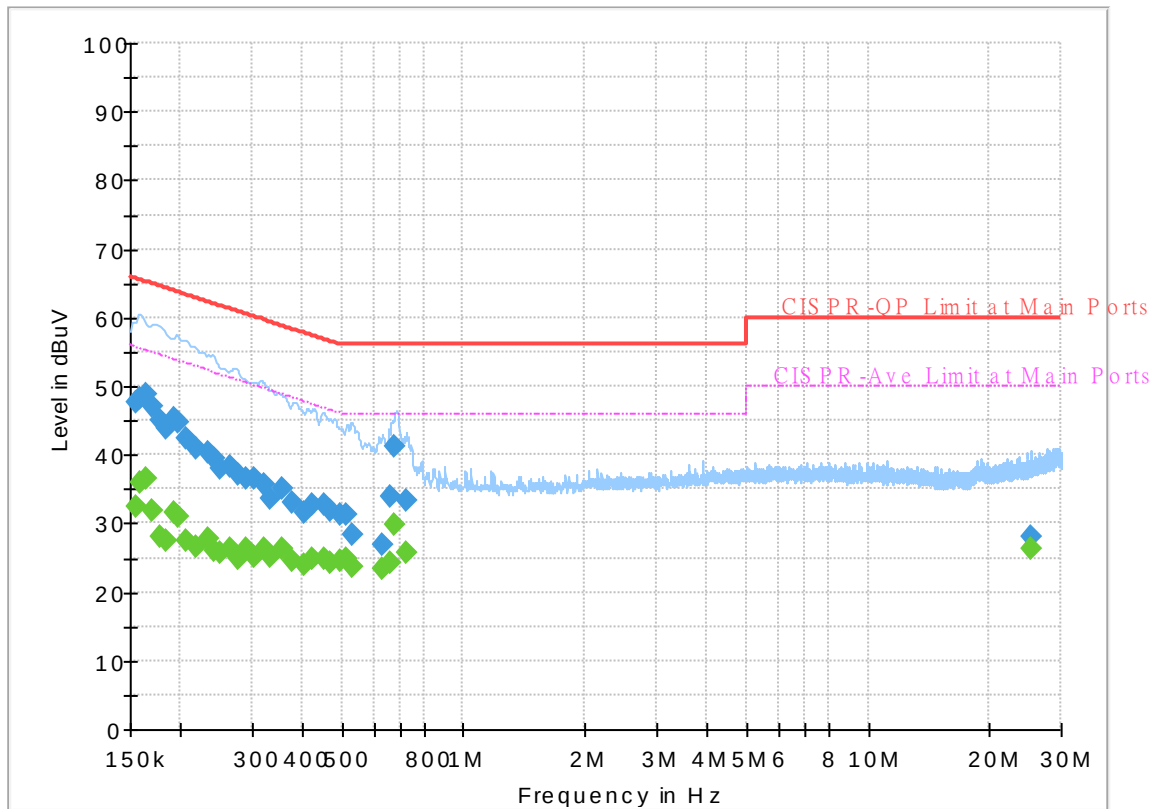
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO : 100638
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

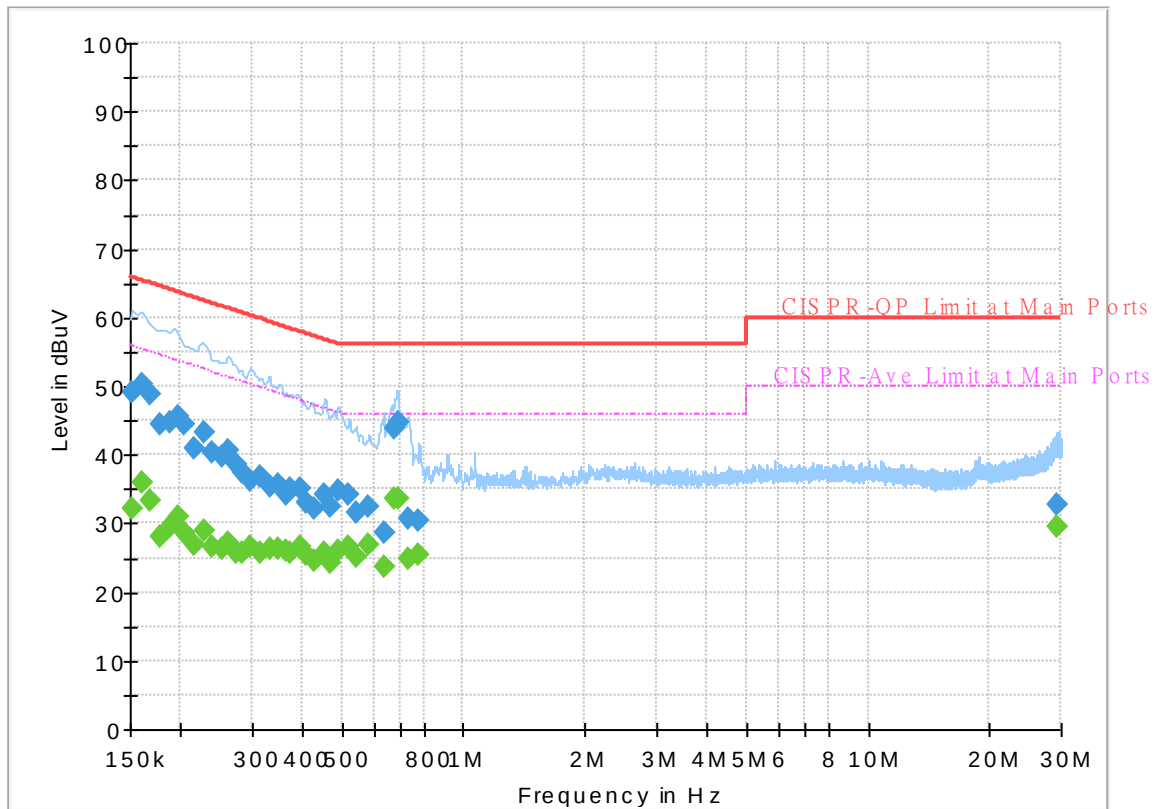
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	32.41	55.75	23.34	L1	OFF	19.6
0.154500	47.70	---	65.75	18.05	L1	OFF	19.6
0.159000	---	35.89	55.52	19.63	L1	OFF	19.6
0.159000	48.32	---	65.52	17.20	L1	OFF	19.6
0.163500	---	36.68	55.28	18.60	L1	OFF	19.6
0.163500	48.80	---	65.28	16.48	L1	OFF	19.6
0.170250	---	32.00	54.95	22.95	L1	OFF	19.6
0.170250	46.95	---	64.95	18.00	L1	OFF	19.6
0.177000	---	28.04	54.63	26.59	L1	OFF	19.6
0.177000	44.96	---	64.63	19.67	L1	OFF	19.6
0.183750	---	27.46	54.31	26.85	L1	OFF	19.6
0.183750	43.72	---	64.31	20.59	L1	OFF	19.6
0.192750	---	31.47	53.92	22.45	L1	OFF	19.6
0.192750	45.37	---	63.92	18.55	L1	OFF	19.6
0.197250	---	31.09	53.73	22.64	L1	OFF	19.6
0.197250	44.77	---	63.73	18.96	L1	OFF	19.6
0.206250	---	27.41	53.36	25.95	L1	OFF	19.6
0.206250	42.34	---	63.36	21.02	L1	OFF	19.6
0.217500	---	26.52	52.91	26.39	L1	OFF	19.6
0.217500	41.03	---	62.91	21.88	L1	OFF	19.6
0.233250	---	27.74	52.33	24.59	L1	OFF	19.6

0.233250	40.33	---	62.33	22.00	L1	OFF	19.6
0.242250	---	25.95	52.02	26.07	L1	OFF	19.6
0.242250	39.38	---	62.02	22.64	L1	OFF	19.6
0.251250	---	25.61	51.72	26.11	L1	OFF	19.6
0.251250	37.88	---	61.72	23.84	L1	OFF	19.6
0.264750	---	26.36	51.28	24.92	L1	OFF	19.6
0.264750	38.42	---	61.28	22.86	L1	OFF	19.6
0.278250	---	24.94	50.87	25.93	L1	OFF	19.6
0.278250	37.10	---	60.87	23.77	L1	OFF	19.6
0.289500	---	26.25	50.54	24.29	L1	OFF	19.6
0.289500	36.64	---	60.54	23.90	L1	OFF	19.6
0.305250	---	25.29	50.10	24.81	L1	OFF	19.6
0.305250	36.62	---	60.10	23.48	L1	OFF	19.6
0.321000	---	26.21	49.68	23.47	L1	OFF	19.6
0.321000	35.64	---	59.68	24.04	L1	OFF	19.6
0.334500	---	25.16	49.34	24.18	L1	OFF	19.6
0.334500	33.57	---	59.34	25.77	L1	OFF	19.6
0.354750	---	26.34	48.85	22.51	L1	OFF	19.6
0.354750	35.03	---	58.85	23.82	L1	OFF	19.6
0.377250	---	24.59	48.34	23.75	L1	OFF	19.6
0.377250	33.04	---	58.34	25.30	L1	OFF	19.6
0.404250	---	24.06	47.77	23.71	L1	OFF	19.6
0.404250	31.51	---	57.77	26.26	L1	OFF	19.6
0.424500	---	24.93	47.36	22.43	L1	OFF	19.7
0.424500	32.72	---	57.36	24.64	L1	OFF	19.7
0.453750	---	24.85	46.81	21.96	L1	OFF	19.7
0.453750	32.75	---	56.81	24.06	L1	OFF	19.7
0.469500	---	24.18	46.52	22.34	L1	OFF	19.7
0.469500	31.83	---	56.52	24.69	L1	OFF	19.7
0.494250	---	24.44	46.10	21.66	L1	OFF	19.7
0.494250	31.14	---	56.10	24.96	L1	OFF	19.7
0.514500	---	24.73	46.00	21.27	L1	OFF	19.8
0.514500	31.30	---	56.00	24.70	L1	OFF	19.8
0.530250	---	23.81	46.00	22.19	L1	OFF	19.8
0.530250	28.47	---	56.00	27.53	L1	OFF	19.8
0.631500	---	23.29	46.00	22.71	L1	OFF	19.9
0.631500	27.00	---	56.00	29.00	L1	OFF	19.9
0.660750	---	24.30	46.00	21.70	L1	OFF	19.9
0.660750	33.81	---	56.00	22.19	L1	OFF	19.9
0.676500	---	29.75	46.00	16.25	L1	OFF	19.9
0.676500	41.26	---	56.00	14.74	L1	OFF	19.9
0.721500	---	25.85	46.00	20.15	L1	OFF	19.9
0.721500	33.38	---	56.00	22.62	L1	OFF	19.9
25.161000	---	26.35	50.00	23.65	L1	OFF	20.6
25.161000	28.19	---	60.00	31.81	L1	OFF	20.6

EUT Information

Report NO : 100638
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)
0.152250	---	32.13	55.88	23.75	N	OFF	19.6
0.152250	49.21	---	65.88	16.67	N	OFF	19.6
0.161250	---	36.07	55.40	19.33	N	OFF	19.6
0.161250	50.39	---	65.40	15.01	N	OFF	19.6
0.168000	---	33.37	55.06	21.69	N	OFF	19.6
0.168000	48.91	---	65.06	16.15	N	OFF	19.6
0.177000	---	28.18	54.63	26.45	N	OFF	19.6
0.177000	44.52	---	64.63	20.11	N	OFF	19.6
0.188250	---	29.62	54.11	24.49	N	OFF	19.6
0.188250	44.75	---	64.11	19.36	N	OFF	19.6
0.197250	---	31.12	53.73	22.61	N	OFF	19.6
0.197250	45.67	---	63.73	18.06	N	OFF	19.6
0.204000	---	28.68	53.45	24.77	N	OFF	19.6
0.204000	44.49	---	63.45	18.96	N	OFF	19.6
0.215250	---	26.90	53.00	26.10	N	OFF	19.6
0.215250	40.97	---	63.00	22.03	N	OFF	19.6
0.228750	---	28.82	52.50	23.68	N	OFF	19.6
0.228750	43.19	---	62.50	19.31	N	OFF	19.6
0.240000	---	26.73	52.10	25.37	N	OFF	19.6
0.240000	40.34	---	62.10	21.76	N	OFF	19.6
0.253500	---	26.21	51.64	25.43	N	OFF	19.6

0.253500	39.65	---	61.64	21.99	N	OFF	19.6
0.262500	---	27.29	51.35	24.06	N	OFF	19.6
0.262500	40.59	---	61.35	20.76	N	OFF	19.6
0.273750	---	25.74	51.00	25.26	N	OFF	19.6
0.273750	38.68	---	61.00	22.32	N	OFF	19.6
0.282750	---	25.62	50.74	25.12	N	OFF	19.6
0.282750	37.55	---	60.74	23.19	N	OFF	19.6
0.298500	---	26.51	50.28	23.77	N	OFF	19.6
0.298500	36.26	---	60.28	24.02	N	OFF	19.6
0.314250	---	25.65	49.86	24.21	N	OFF	19.6
0.314250	36.85	---	59.86	23.01	N	OFF	19.6
0.332250	---	26.37	49.40	23.03	N	OFF	19.6
0.332250	35.38	---	59.40	24.02	N	OFF	19.6
0.350250	---	26.36	48.96	22.60	N	OFF	19.6
0.350250	35.65	---	58.96	23.31	N	OFF	19.6
0.363750	---	26.05	48.64	22.59	N	OFF	19.6
0.363750	34.18	---	58.64	24.46	N	OFF	19.6
0.375000	---	25.88	48.39	22.51	N	OFF	19.6
0.375000	35.12	---	58.39	23.27	N	OFF	19.6
0.393000	---	26.52	48.00	21.48	N	OFF	19.6
0.393000	35.08	---	58.00	22.92	N	OFF	19.6
0.408750	---	25.34	47.67	22.33	N	OFF	19.6
0.408750	32.95	---	57.67	24.72	N	OFF	19.6
0.429000	---	24.57	47.27	22.70	N	OFF	19.7
0.429000	32.04	---	57.27	25.23	N	OFF	19.7
0.453750	---	25.64	46.81	21.17	N	OFF	19.7
0.453750	34.18	---	56.81	22.63	N	OFF	19.7
0.467250	---	24.40	46.56	22.16	N	OFF	19.7
0.467250	32.32	---	56.56	24.24	N	OFF	19.7
0.492000	---	26.15	46.13	19.98	N	OFF	19.7
0.492000	34.87	---	56.13	21.26	N	OFF	19.7
0.516750	---	26.52	46.00	19.48	N	OFF	19.8
0.516750	34.17	---	56.00	21.83	N	OFF	19.8
0.543750	---	25.02	46.00	20.98	N	OFF	19.8
0.543750	31.69	---	56.00	24.31	N	OFF	19.8
0.584250	---	26.89	46.00	19.11	N	OFF	19.8
0.584250	32.53	---	56.00	23.47	N	OFF	19.8
0.636000	---	23.68	46.00	22.32	N	OFF	19.9
0.636000	28.60	---	56.00	27.40	N	OFF	19.9
0.676500	---	33.54	46.00	12.46	N	OFF	19.9
0.676500	43.94	---	56.00	12.06	N	OFF	19.9
0.687750	---	33.62	46.00	12.38	N	OFF	19.9
0.687750	44.85	---	56.00	11.15	N	OFF	19.9
0.728250	---	24.74	46.00	21.26	N	OFF	20.0
0.728250	30.80	---	56.00	25.20	N	OFF	20.0
0.777750	---	25.45	46.00	20.55	N	OFF	20.0
0.777750	30.41	---	56.00	25.59	N	OFF	20.0
29.370750	---	29.58	50.00	20.42	N	OFF	20.8
29.370750	32.61	---	60.00	27.39	N	OFF	20.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	17.9~24.6°C
		Relative Humidity :	53.1~69%

<CDD Mode>

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	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5150	56.81	-17.19	74	46.1	34.2	11.79	35.28	100	242	P	H
		5150	51.41	-2.59	54	40.7	34.2	11.79	35.28	100	242	A	H
	*	5180	116.55	-	-	105.72	34.27	11.83	35.27	100	295	P	H
	*	5180	109.56	-	-	98.73	34.27	11.83	35.27	100	295	A	H
													H
													H
		5145.86	58.71	-15.29	74	48	34.2	11.79	35.28	278	204	P	V
		5146.12	46.99	-7.01	54	36.28	34.2	11.79	35.28	278	204	A	V
	*	5180	116.45	-	-	105.62	34.27	11.83	35.27	278	204	P	V
	*	5180	108.94	-	-	98.11	34.27	11.83	35.27	278	204	A	V
													V
													V
802.11a CH 44 5220MHz		5059.28	48.23	-25.77	74	37.8	34.07	11.69	35.33	100	242	P	H
		5147.68	40.53	-13.47	54	29.82	34.2	11.79	35.28	100	242	A	H
	*	5220	113.23	-	-	102.32	34.3	11.86	35.25	100	242	P	H
	*	5220	105.71	-	-	94.8	34.3	11.86	35.25	100	242	A	H
		5411.28	48.36	-25.64	74	36.93	34.6	11.99	35.16	100	242	P	H
		5411	41.18	-12.82	54	29.75	34.6	11.99	35.16	100	242	A	H
		5068.9	48.68	-25.32	74	38.22	34.07	11.7	35.31	339	252	P	V
		5129.74	39.69	-14.31	54	29.01	34.2	11.77	35.29	339	252	A	V
	*	5220	111.69	-	-	100.78	34.3	11.86	35.25	339	252	P	V
	*	5220	104.11	-	-	93.2	34.3	11.86	35.25	339	252	A	V
		5459.44	48.08	-25.92	74	36.55	34.6	12.06	35.13	339	252	P	V
		5414.36	39.91	-14.09	54	28.48	34.6	11.99	35.16	339	252	A	V



802.11a CH 48 5240MHz		5033.54	48.57	-25.43	74	38.18	34.07	11.66	35.34	100	241	P	H
		5139.1	40.41	-13.59	54	29.72	34.2	11.78	35.29	100	241	A	H
	*	5240	112.33	-	-	101.4	34.3	11.87	35.24	100	241	P	H
	*	5240	105.13	-	-	94.2	34.3	11.87	35.24	100	241	A	H
		5362.28	49.45	-24.55	74	38.21	34.47	11.95	35.18	100	241	P	H
		5424.44	40.94	-13.06	54	29.47	34.6	12.01	35.14	100	241	A	H
		5143	48.32	-25.68	74	37.63	34.2	11.78	35.29	253	251	P	V
		5147.42	39.7	-14.3	54	28.99	34.2	11.79	35.28	253	251	A	V
	*	5240	110.97	-	-	100.04	34.3	11.87	35.24	253	251	P	V
	*	5240	104.23	-	-	93.3	34.3	11.87	35.24	253	251	A	V
		5426.12	47.37	-26.63	74	35.9	34.6	12.01	35.14	253	251	P	V
		5438.72	40.16	-13.84	54	28.67	34.6	12.03	35.14	253	251	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	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	56.42	-11.78	68.2	59.59	37.57	18.57	59.31	-	-	P	H
		13380	48.86	-25.14	74	46.92	38.94	21.23	58.23	-	-	P	H
		13380	36.95	-17.05	54	35.01	38.94	21.23	58.23	-	-	A	H
		14491	48.75	-25.25	74	45.24	39.3	22.3	58.09	-	-	P	H
		14491	38.61	-15.39	54	35.1	39.3	22.3	58.09	-	-	A	H
		15540	62.08	-11.92	74	55.71	40.27	23.33	57.23	259	205	P	H
		15540	51.47	-2.53	54	45.1	40.27	23.33	57.23	259	205	A	H
		17747	52.47	-21.53	74	41.33	41.85	25.42	56.13	-	-	P	H
		17747	42.58	-11.42	54	31.44	41.85	25.42	56.13	-	-	A	H
													H
													H
													H
		10360	52.34	-15.86	68.2	55.51	37.57	18.57	59.31	-	-	P	V
		13347	48.61	-25.39	74	46.61	39.02	21.2	58.22	-	-	P	V
		13347	37.01	-16.99	54	35.01	39.02	21.2	58.22	-	-	A	V
		14491	48.28	-25.72	74	44.77	39.3	22.3	58.09	-	-	P	V
		14491	38.69	-15.31	54	35.18	39.3	22.3	58.09	-	-	A	V
		15540	61.13	-12.87	74	54.76	40.27	23.33	57.23	196	307	P	V
		15540	50.34	-3.66	54	43.97	40.27	23.33	57.23	196	307	A	V
		17714	52.52	-21.48	74	41.46	41.82	25.39	56.15	-	-	P	V
		17714	42.55	-11.45	54	31.49	41.82	25.39	56.15	-	-	A	V
													V
													V
													V



WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 44 5220MHz		10440	59.93	-8.27	68.2	62.9	37.6	18.64	59.21	-	-	P	H
		13391	46.36	-27.64	74	44.45	38.9	21.24	58.23	-	-	P	H
		14480	46.32	-27.68	74	42.84	39.28	22.29	58.09	-	-	P	H
		15660	61.09	-12.91	74	54.36	40.4	23.45	57.12	297	202	P	H
		15660	52.31	-1.69	54	45.58	40.4	23.45	57.12	297	202	A	H
		17923	51.68	-22.32	74	40.23	41.9	25.58	56.03	-	-	P	H
		17923	41.88	-12.12	54	30.43	41.9	25.58	56.03	-	-	A	H
													H
													H
													H
													H
													H
		10440	52.25	-15.95	68.2	55.22	37.6	18.64	59.21	-	-	P	V
		13336	45.72	-28.28	74	43.72	39.02	21.19	58.21	-	-	P	V
		14480	46.44	-27.56	74	42.96	39.28	22.29	58.09	-	-	P	V
		15660	60.62	-13.38	74	53.89	40.4	23.45	57.12	196	308	P	V
		15660	48.92	-5.08	54	42.19	40.4	23.45	57.12	196	308	A	V
		17934	51.13	-22.87	74	39.66	41.9	25.59	56.02	-	-	P	V
		17934	42.02	-11.98	54	30.55	41.9	25.59	56.02	-	-	A	V
													V
													V
													V
													V
													V

[illegible]



Band 1 5150~5250MHz

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

WIFI Ant. 1+2+3+4	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		5146.38	58.76	-15.24	74	48.05	34.2	11.79	35.28	100	245	P	H
		5148.98	51.71	-2.29	54	41	34.2	11.79	35.28	100	245	A	H
	*	5180	118.41	-	-	107.58	34.27	11.83	35.27	100	245	P	H
	*	5180	109.53	-	-	98.7	34.27	11.83	35.27	100	245	A	H
													H
													H
		5149.76	53.24	-20.76	74	42.53	34.2	11.79	35.28	275	249	P	V
		5150	46.88	-7.12	54	36.17	34.2	11.79	35.28	275	249	A	V
	*	5180	115.64	-	-	104.81	34.27	11.83	35.27	275	249	P	V
	*	5180	106.33	-	-	95.5	34.27	11.83	35.27	275	249	A	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		5146.12	49.18	-24.82	74	38.47	34.2	11.79	35.28	100	235	P	H
		5147.94	39.9	-14.1	54	29.19	34.2	11.79	35.28	100	235	A	H
	*	5220	115	-	-	104.09	34.3	11.86	35.25	100	235	P	H
	*	5220	106.11	-	-	95.2	34.3	11.86	35.25	100	235	A	H
		5404.28	49.69	-24.31	74	38.27	34.6	11.98	35.16	100	235	P	H
		5414.08	40.22	-13.78	54	28.79	34.6	11.99	35.16	100	235	A	H
		5144.3	48.08	-25.92	74	37.37	34.2	11.79	35.28	308	240	P	V
		5147.68	39.38	-14.62	54	28.67	34.2	11.79	35.28	308	240	A	V
	*	5220	111.05	-	-	100.14	34.3	11.86	35.25	308	240	P	V
	*	5220	102.81	-	-	91.9	34.3	11.86	35.25	308	240	A	V
		5357.24	48.08	-25.92	74	36.92	34.4	11.94	35.18	308	240	P	V
		5419.12	39.32	-14.68	54	27.88	34.6	12	35.16	308	240	A	V



802.11ax HE20 Full CH 48 5240MHz		5143.26	47.6	-26.4	74	36.91	34.2	11.78	35.29	100	241	P	H
		5150	40.05	-13.95	54	29.34	34.2	11.79	35.28	100	241	A	H
	*	5240	115.7	-	-	104.77	34.3	11.87	35.24	100	241	P	H
	*	5240	107.73	-	-	96.8	34.3	11.87	35.24	100	241	A	H
		5351.64	49.4	-24.6	74	38.24	34.4	11.94	35.18	100	241	P	H
		5430.04	41.21	-12.79	54	29.73	34.6	12.02	35.14	100	241	A	H
		5124.54	48	-26	74	37.33	34.2	11.76	35.29	338	265	P	V
		5139.1	39.21	-14.79	54	28.52	34.2	11.78	35.29	338	265	A	V
	*	5240	112.19	-	-	101.26	34.3	11.87	35.24	338	265	P	V
	*	5240	103.83	-	-	92.9	34.3	11.87	35.24	338	265	A	V
		5351.92	47.89	-26.11	74	36.73	34.4	11.94	35.18	338	265	P	V
		5435.36	39.34	-14.66	54	27.86	34.6	12.02	35.14	338	265	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. 1+2+3+4	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	57.57	-10.63	68.2	60.74	37.57	18.57	59.31	-	-	P	H
		13347	48.51	-25.49	74	46.51	39.02	21.2	58.22	-	-	P	H
		13347	36.51	-17.49	54	34.51	39.02	21.2	58.22	-	-	A	H
		14491	48.36	-25.64	74	44.85	39.3	22.3	58.09	-	-	P	H
		14491	38.11	-15.89	54	34.6	39.3	22.3	58.09	-	-	A	H
		15540	62.96	-11.04	74	56.59	40.27	23.33	57.23	257	204	P	H
		15540	51.53	-2.47	54	45.16	40.27	23.33	57.23	257	204	A	H
		17901	52.18	-21.82	74	40.77	41.9	25.55	56.04	-	-	P	H
		17901	41.85	-12.15	54	30.44	41.9	25.55	56.04	-	-	A	H
													H
													H
													H
		10360	52.42	-15.78	68.2	55.59	37.57	18.57	59.31	-	-	P	V
		13380	48.66	-25.34	74	46.72	38.94	21.23	58.23	-	-	P	V
		13380	36.47	-17.53	54	34.53	38.94	21.23	58.23	-	-	A	V
		14491	48.25	-25.75	74	44.74	39.3	22.3	58.09	-	-	P	V
		14491	38.15	-15.85	54	34.64	39.3	22.3	58.09	-	-	A	V
		15540	62.63	-11.37	74	56.26	40.27	23.33	57.23	192	308	P	V
		15540	50.74	-3.26	54	44.37	40.27	23.33	57.23	192	308	A	V
		17769	52.16	-21.84	74	40.97	41.87	25.44	56.12	-	-	P	V
		17769	42.11	-11.89	54	30.92	41.87	25.44	56.12	-	-	A	V
													V
													V
													V



WIFI Ant. 1+2+3+4	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 44 5220MHz		10440	56.99	-11.21	68.2	59.96	37.6	18.64	59.21	-	-	P	H
		12588	48.26	-25.74	74	45.79	39.1	20.49	57.12	-	-	P	H
		12588	37.03	-16.97	54	34.56	39.1	20.49	57.12	-	-	A	H
		13369	48.62	-25.38	74	46.68	38.94	21.22	58.22	-	-	P	H
		13369	36.41	-17.59	54	34.47	38.94	21.22	58.22	-	-	A	H
		15660	63.9	-10.1	74	57.17	40.4	23.45	57.12	295	204	P	H
		15660	51.83	-2.17	54	45.1	40.4	23.45	57.12	295	204	A	H
		17901	52.29	-21.71	74	40.88	41.9	25.55	56.04	-	-	P	H
		17901	41.89	-12.11	54	30.48	41.9	25.55	56.04	-	-	A	H
													H
													H
													H
		10440	50.49	-17.71	68.2	53.46	37.6	18.64	59.21	-	-	P	V
		13270	48.54	-25.46	74	46.54	39.07	21.13	58.2	-	-	P	V
		13270	36.16	-17.84	54	34.16	39.07	21.13	58.2	-	-	A	V
		14491	48.94	-25.06	74	45.43	39.3	22.3	58.09	-	-	P	V
		14491	38.17	-15.83	54	34.66	39.3	22.3	58.09	-	-	A	V
		15660	63.32	-10.68	74	56.59	40.4	23.45	57.12	196	308	P	V
		15660	51.56	-2.44	54	44.83	40.4	23.45	57.12	196	308	A	V
		17703	52.14	-21.86	74	41.1	41.82	25.38	56.16	-	-	P	V
		17703	42.17	-11.83	54	31.13	41.82	25.38	56.16	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2+3+4	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 48 5240MHz		10480	57.87	-10.33	68.2	60.76	37.6	18.67	59.16	-	-	P	H
		13380	47.12	-26.88	74	45.18	38.94	21.23	58.23	-	-	P	H
		14491	47.46	-26.54	74	43.95	39.3	22.3	58.09	-	-	P	H
		15720	63.66	-10.34	74	56.61	40.62	23.5	57.07	296	201	P	H
		15720	52.72	-1.28	54	45.67	40.62	23.5	57.07	296	201	A	H
		17813	51.28	-22.72	74	40	41.9	25.47	56.09	-	-	P	H
		17813	41.35	-12.65	54	30.07	41.9	25.47	56.09	-	-	A	H
													H
													H
													H
													H
													H
													H
		10480	54.74	-13.46	68.2	57.63	37.6	18.67	59.16	-	-	P	V
		13402	47.34	-20.86	68.2	45.4	38.92	21.25	58.23	-	-	P	V
		14491	47.19	-26.81	74	43.68	39.3	22.3	58.09	-	-	P	V
		15720	62.31	-11.69	74	55.26	40.62	23.5	57.07	198	306	P	V
		15720	52.41	-1.59	54	45.36	40.62	23.5	57.07	198	306	A	V
		17758	51.12	-22.88	74	39.95	41.87	25.43	56.13	-	-	P	V
		17758	41.32	-12.68	54	30.15	41.87	25.43	56.13	-	-	A	V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 1 5150~5250MHz

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

WIFI Ant. 1+2+3+4	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 M CH 36 5180MHz		5148.72	62.75	-11.25	74	52.04	34.2	11.79	35.28	100	267	P	H
		5148.2	52.67	-1.33	54	41.96	34.2	11.79	35.28	100	267	A	H
	*	5180	115.4	-	-	104.57	34.27	11.83	35.27	100	267	P	H
	*	5180	107.05	-	-	96.22	34.27	11.83	35.27	100	267	A	H
													H
													H
		5149.76	59.6	-14.4	74	48.89	34.2	11.79	35.28	100	321	P	V
		5149.24	49.32	-4.68	54	38.61	34.2	11.79	35.28	100	321	A	V
	*	5180	113.27	-	-	102.44	34.27	11.83	35.27	100	321	P	V
	*	5180	105	-	-	94.17	34.27	11.83	35.27	100	321	A	V
													V
													V
802.11ax HE20 Partial BE CH 36 5180MHz		5148.2	63.33	-10.67	74	52.62	34.2	11.79	35.28	100	239	P	H
		5146.9	47.65	-6.35	54	36.94	34.2	11.79	35.28	100	239	A	H
	*	5180	119.8	-	-	108.97	34.27	11.83	35.27	100	239	P	H
	*	5180	112.13	-	-	101.3	34.27	11.83	35.27	100	239	A	H
													H
													H
		5149.76	51.53	-22.47	74	40.82	34.2	11.79	35.28	100	240	P	V
		5149.76	45.45	-8.55	54	34.74	34.2	11.79	35.28	100	240	A	V
	*	5180	117.94	-	-	107.11	34.27	11.83	35.27	100	240	P	V
	*	5180	109.43	-	-	98.6	34.27	11.83	35.27	100	240	A	V
													V
													V



WIFI Ant. 1+2+3+4	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 M CH 44 5220MHz		5150	50.46	-23.54	74	39.75	34.2	11.79	35.28	100	241	P	H
		5149.24	41.24	-12.76	54	30.53	34.2	11.79	35.28	100	241	A	H
	*	5220	115.12	-	-	104.21	34.3	11.86	35.25	100	241	P	H
	*	5220	107.51	-	-	96.6	34.3	11.86	35.25	100	241	A	H
		5356.12	49.39	-24.61	74	38.23	34.4	11.94	35.18	100	241	P	H
		5406.24	41.88	-12.12	54	30.46	34.6	11.98	35.16	100	241	A	H
		5108.16	48.36	-25.64	74	37.72	34.2	11.74	35.3	106	231	P	V
		5149.76	40.6	-13.4	54	29.89	34.2	11.79	35.28	106	231	A	V
	*	5220	113.05	-	-	102.14	34.3	11.86	35.25	106	231	P	V
	*	5220	105.11	-	-	94.2	34.3	11.86	35.25	106	231	A	V
		5397.84	48.03	-25.97	74	36.63	34.6	11.97	35.17	106	231	P	V
		5418.28	40.67	-13.33	54	29.23	34.6	12	35.16	106	231	A	V
802.11ax HE20 Partial BE CH 44 5220MHz		5149.5	51.85	-22.15	74	41.14	34.2	11.79	35.28	100	240	P	H
		5148.46	41.84	-12.16	54	31.13	34.2	11.79	35.28	100	240	A	H
	*	5220	119.81	-	-	108.9	34.3	11.86	35.25	100	240	P	H
	*	5220	110.11	-	-	99.2	34.3	11.86	35.25	100	240	A	H
		5440.68	50.12	-23.88	74	38.63	34.6	12.03	35.14	100	240	P	H
		5407.36	42.98	-11.02	54	31.56	34.6	11.98	35.16	100	240	A	H
		5148.46	50.05	-23.95	74	39.34	34.2	11.79	35.28	105	242	P	V
		5148.72	40.98	-13.02	54	30.27	34.2	11.79	35.28	105	242	A	V
	*	5220	115.81	-	-	104.9	34.3	11.86	35.25	105	242	P	V
	*	5220	107.61	-	-	96.7	34.3	11.86	35.25	105	242	A	V
		5379.64	49.14	-24.86	74	37.82	34.53	11.96	35.17	105	242	P	V
		5415.2	41.74	-12.26	54	30.31	34.6	11.99	35.16	105	242	A	V



WIFI Ant. 1+2+3+4	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 M CH 48 5240MHz		5143.26	48.27	-25.73	74	37.58	34.2	11.78	35.29	100	245	P	H
		5147.68	41.51	-12.49	54	30.8	34.2	11.79	35.28	100	245	A	H
	*	5240	115.04	-	-	104.11	34.3	11.87	35.24	100	245	P	H
	*	5240	107.03	-	-	96.1	34.3	11.87	35.24	100	245	A	H
		5380.48	48.89	-25.11	74	37.57	34.53	11.96	35.17	100	245	P	H
		5436.2	42.3	-11.7	54	30.81	34.6	12.03	35.14	100	245	A	H
		5107.12	48.09	-25.91	74	37.45	34.2	11.74	35.3	104	241	P	V
		5149.24	40.67	-13.33	54	29.96	34.2	11.79	35.28	104	241	A	V
	*	5240	111.28	-	-	100.35	34.3	11.87	35.24	104	241	P	V
	*	5240	103.61	-	-	92.68	34.3	11.87	35.24	104	241	A	V
		5437.04	49.56	-24.44	74	38.07	34.6	12.03	35.14	104	241	P	V
		5425	41.08	-12.92	54	29.61	34.6	12.01	35.14	104	241	A	V
802.11ax HE20 Partial BE CH 48 5240MHz		5141.18	48.54	-25.46	74	37.85	34.2	11.78	35.29	100	241	P	H
		5147.94	40.83	-13.17	54	30.12	34.2	11.79	35.28	100	241	A	H
	*	5240	116.23	-	-	105.3	34.3	11.87	35.24	100	241	P	H
	*	5240	108.25	-	-	97.32	34.3	11.87	35.24	100	241	A	H
		5435.64	50.13	-23.87	74	38.64	34.6	12.03	35.14	100	241	P	H
		5436.48	42.15	-11.85	54	30.66	34.6	12.03	35.14	100	241	A	H
		5108.94	47.87	-26.13	74	37.22	34.2	11.75	35.3	100	239	P	V
		5141.7	40.4	-13.6	54	29.71	34.2	11.78	35.29	100	239	A	V
	*	5240	113.77	-	-	102.84	34.3	11.87	35.24	100	239	P	V
	*	5240	106.13	-	-	95.2	34.3	11.87	35.24	100	239	A	V
		5388.32	49.27	-24.73	74	37.95	34.53	11.96	35.17	100	239	P	V
		5429.2	40.61	-13.39	54	29.13	34.6	12.02	35.14	100	239	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE20 Partial RU (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	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 M CH 36 5180MHz		10360	55.79	-12.41	68.2	58.96	37.57	18.57	59.31	-	-	P	H
		13369	48.37	-25.63	74	46.43	38.94	21.22	58.22	-	-	P	H
		13369	36.93	-17.07	54	34.99	38.94	21.22	58.22	-	-	A	H
		14491	48.36	-25.64	74	44.85	39.3	22.3	58.09	-	-	P	H
		14491	38.57	-15.43	54	35.06	39.3	22.3	58.09	-	-	A	H
		15540	62.26	-11.74	74	55.89	40.27	23.33	57.23	200	185	P	H
		15540	50.9	-3.1	54	44.53	40.27	23.33	57.23	200	185	A	H
		17824	52.48	-21.52	74	41.19	41.9	25.48	56.09	-	-	P	H
		17824	42.22	-11.78	54	30.93	41.9	25.48	56.09	-	-	A	H
													H
													H
													H
		10360	52	-16.2	68.2	55.17	37.57	18.57	59.31	-	-	P	V
		13325	48.65	-25.35	74	46.62	39.06	21.18	58.21	-	-	P	V
		13325	37.03	-16.97	54	35	39.06	21.18	58.21	-	-	A	V
		14491	48.56	-25.44	74	45.05	39.3	22.3	58.09	-	-	P	V
		14491	38.66	-15.34	54	35.15	39.3	22.3	58.09	-	-	A	V
		15540	61.9	-12.1	74	55.53	40.27	23.33	57.23	200	304	P	V
		15540	50.71	-3.29	54	44.34	40.27	23.33	57.23	200	304	A	V
		17868	52.8	-21.2	74	41.44	41.9	25.52	56.06	-	-	P	V
		17868	42.06	-11.94	54	30.7	41.9	25.52	56.06	-	-	A	V
													V
													V
													V



WIFI Ant. 1+2+3+4	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 BE CH 36 5180MHz		10360	60.93	-7.27	68.2	64.1	37.57	18.57	59.31	-	-	P	H
		13380	48.53	-25.47	74	46.59	38.94	21.23	58.23	-	-	P	H
		13380	36.75	-17.25	54	34.81	38.94	21.23	58.23	-	-	A	H
		14491	48.17	-25.83	74	44.66	39.3	22.3	58.09	-	-	P	H
		14491	38.67	-15.33	54	35.16	39.3	22.3	58.09	-	-	A	H
		15540	63.84	-10.16	74	57.47	40.27	23.33	57.23	205	187	P	H
		15540	52.59	-1.41	54	46.22	40.27	23.33	57.23	205	187	A	H
		17780	51.75	-22.25	74	40.53	41.88	25.45	56.11	-	-	P	H
		17780	42.22	-11.78	54	31	41.88	25.45	56.11	-	-	A	H
													H
													H
													H
		10360	56.33	-11.87	68.2	59.5	37.57	18.57	59.31	-	-	P	V
		13358	48.16	-25.84	74	46.19	38.98	21.21	58.22	-	-	P	V
		13358	36.9	-17.1	54	34.93	38.98	21.21	58.22	-	-	A	V
		14480	48.2	-25.8	74	44.72	39.28	22.29	58.09	-	-	P	V
		14480	38.55	-15.45	54	35.07	39.28	22.29	58.09	-	-	A	V
		15540	63.67	-10.33	74	57.3	40.27	23.33	57.23	195	304	P	V
		15540	52.43	-1.57	54	46.06	40.27	23.33	57.23	195	304	A	V
		17835	52.24	-21.76	74	40.93	41.9	25.49	56.08	-	-	P	V
		17835	42.19	-11.81	54	30.88	41.9	25.49	56.08	-	-	A	V
													V
													V
													V



WIFI Ant. 1+2+3+4	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 M CH 44 5220MHz		10440	57.48	-10.72	68.2	60.45	37.6	18.64	59.21	-	-	P	H
		13347	47.37	-26.63	74	45.37	39.02	21.2	58.22	-	-	P	H
		14480	47.9	-26.1	74	44.42	39.28	22.29	58.09	-	-	P	H
		15660	63.44	-10.56	74	56.71	40.4	23.45	57.12	251	163	P	H
		15660	52.16	-1.84	54	45.43	40.4	23.45	57.12	251	163	A	H
		17846	52.77	-21.23	74	41.44	41.9	25.5	56.07	-	-	P	H
		17846	41.68	-12.32	54	30.35	41.9	25.5	56.07	-	-	A	H
													H
													H
													H
													H
													H
		10440	54	-14.2	68.2	56.97	37.6	18.64	59.21	-	-	P	V
		13336	47.63	-26.37	74	45.63	39.02	21.19	58.21	-	-	P	V
		14480	48.04	-25.96	74	44.56	39.28	22.29	58.09	-	-	P	V
		14480	38.1	-15.9	54	34.62	39.28	22.29	58.09	-	-	A	V
		15660	62.23	-11.77	74	55.5	40.4	23.45	57.12	201	304	P	V
		15660	51.94	-2.06	54	45.21	40.4	23.45	57.12	201	304	A	V
		17802	52.28	-21.72	74	41.02	41.9	25.46	56.1	-	-	P	V
		17802	41.85	-12.15	54	30.59	41.9	25.46	56.1	-	-	A	V
													V
													V
													V
													V



WIFI Ant. 1+2+3+4	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 BE CH 44 5220MHz		10440	59	-9.2	68.2	61.97	37.6	18.64	59.21	-	-	P	H
		13325	47.88	-26.12	74	45.85	39.06	21.18	58.21	-	-	P	H
		14491	48.03	-25.97	74	44.52	39.3	22.3	58.09	-	-	P	H
		14491	37.53	-16.47	54	34.02	39.3	22.3	58.09	-	-	A	H
		15660	65.32	-8.68	74	58.59	40.4	23.45	57.12	285	265	P	H
		15660	51.92	-2.08	54	45.19	40.4	23.45	57.12	285	265	A	H
		17824	52.51	-21.49	74	41.22	41.9	25.48	56.09	-	-	P	H
		17824	41.97	-12.03	54	30.68	41.9	25.48	56.09	-	-	A	H
													H
													H
													H
													H
		10440	55.3	-12.9	68.2	58.27	37.6	18.64	59.21	-	-	P	V
		13358	48.09	-25.91	74	46.12	38.98	21.21	58.22	-	-	P	V
		13358	37.5	-16.5	54	35.53	38.98	21.21	58.22	-	-	A	V
		14491	47.78	-26.22	74	44.27	39.3	22.3	58.09	-	-	P	V
		15660	64.98	-9.02	74	58.25	40.4	23.45	57.12	200	303	P	V
		15660	51.77	-2.23	54	45.04	40.4	23.45	57.12	200	303	A	V
		17912	52.64	-21.36	74	41.2	41.9	25.57	56.03	-	-	P	V
		17912	42.19	-11.81	54	30.75	41.9	25.57	56.03	-	-	A	V
													V
													V
													V
													V



WIFI Ant. 1+2+3+4	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 M CH 48 5240MHz		10480	59.73	-8.47	68.2	62.62	37.6	18.67	59.16	-	-	P	H
		13391	48.54	-25.46	74	46.63	38.9	21.24	58.23	-	-	P	H
		13391	37.74	-16.26	54	35.83	38.9	21.24	58.23	-	-	A	H
		14499	47.77	-26.23	74	44.25	39.3	22.31	58.09	-	-	P	H
		15720	65.69	-8.31	74	58.64	40.62	23.5	57.07	293	265	P	H
		15720	52.18	-1.82	54	45.13	40.62	23.5	57.07	293	265	A	H
		17989	52.56	-21.44	74	41.01	41.9	25.64	55.99	-	-	P	H
		17989	42.45	-11.55	54	30.9	41.9	25.64	55.99	-	-	A	H
													H
													H
													H
													H
		10480	59.73	-8.47	68.2	62.62	37.6	18.67	59.16	-	-	P	V
		13358	47.5	-26.5	74	45.53	38.98	21.21	58.22	-	-	P	V
		14499	48.05	-25.95	74	44.52	39.3	22.32	58.09	-	-	P	V
		14499	37.55	-16.45	54	34.02	39.3	22.32	58.09	-	-	A	V
		15720	63	-11	74	55.95	40.62	23.5	57.07	199	308	P	V
		15720	52.03	-1.97	54	44.98	40.62	23.5	57.07	199	308	A	V
		17879	52.09	-21.91	74	40.71	41.9	25.53	56.05	-	-	P	V
		17879	42.23	-11.77	54	30.85	41.9	25.53	56.05	-	-	A	V
													V
													V
													V
													V



WIFI Ant. 1+2+3+4	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 BE CH 48 5240MHz		10480	60.84	-7.36	68.2	63.73	37.6	18.67	59.16	-	-	P	H
		13391	47.73	-26.27	74	45.82	38.9	21.24	58.23	-	-	P	H
		14480	47.5	-26.5	74	44.02	39.28	22.29	58.09	-	-	P	H
		15720	64.03	-9.97	74	56.98	40.62	23.5	57.07	292	198	P	H
		15720	52.84	-1.16	54	45.79	40.62	23.5	57.07	292	198	A	H
		17725	52.34	-21.66	74	41.26	41.83	25.4	56.15	-	-	P	H
		17725	41.67	-12.33	54	30.59	41.83	25.4	56.15	-	-	A	H
													H
													H
													H
													H
													H
		10480	56.83	-11.37	68.2	59.72	37.6	18.67	59.16	-	-	P	V
		13380	48.01	-25.99	74	46.07	38.94	21.23	58.23	-	-	P	V
		13380	37.59	-16.41	54	35.65	38.94	21.23	58.23	-	-	A	V
		14499	48.05	-25.95	74	44.53	39.3	22.31	58.09	-	-	P	V
		14499	37.58	-16.42	54	34.06	39.3	22.31	58.09	-	-	A	V
		15720	63.96	-10.04	74	56.91	40.62	23.5	57.07	199	305	P	V
		15720	52.41	-1.59	54	45.36	40.62	23.5	57.07	199	305	A	V
		17791	52.57	-21.43	74	41.32	41.9	25.46	56.11	-	-	P	V
		17791	41.95	-12.05	54	30.7	41.9	25.46	56.11	-	-	A	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 1 5150~5250MHz

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

WIFI Ant. 1+2+3+4	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		5146.12	61.99	-12.01	74	51.28	34.2	11.79	35.28	100	280	P	H
		5147.42	52.54	-1.46	54	41.83	34.2	11.79	35.28	100	280	A	H
	*	5190	116.13	-	-	105.29	34.27	11.84	35.27	100	241	P	H
	*	5190	106.69	-	-	95.85	34.27	11.84	35.27	100	241	A	H
		5366.76	50.16	-23.84	74	38.92	34.47	11.95	35.18	100	280	P	H
		5381.04	41.94	-12.06	54	30.62	34.53	11.96	35.17	100	280	A	H
		5149.5	59.98	-14.02	74	49.27	34.2	11.79	35.28	100	246	P	V
		5149.76	52.16	-1.84	54	41.45	34.2	11.79	35.28	100	246	A	V
	*	5190	110.92	-	-	100.08	34.27	11.84	35.27	329	261	P	V
	*	5190	103.16	-	-	92.32	34.27	11.84	35.27	329	261	A	V
		5376.56	49.82	-24.18	74	38.56	34.47	11.96	35.17	100	246	P	V
		5375.44	41.47	-12.53	54	30.21	34.47	11.96	35.17	100	246	A	V
802.11ax HE40 Full CH 46 5230MHz		5150	51.51	-22.49	74	40.8	34.2	11.79	35.28	100	280	P	H
		5150	43.65	-10.35	54	32.94	34.2	11.79	35.28	100	280	A	H
	*	5230	115.23	-	-	104.3	34.3	11.87	35.24	100	240	P	H
	*	5230	106.13	-	-	95.2	34.3	11.87	35.24	100	240	A	H
		5376	49.27	-24.73	74	38.01	34.47	11.96	35.17	100	280	P	H
		5376	40.78	-13.22	54	29.52	34.47	11.96	35.17	100	280	A	H
		5146.12	48.73	-25.27	74	38.02	34.2	11.79	35.28	106	322	P	V
		5150	40.63	-13.37	54	29.92	34.2	11.79	35.28	106	322	A	V
	*	5230	108.63	-	-	97.7	34.3	11.87	35.24	106	322	P	V
	*	5230	101.63	-	-	90.7	34.3	11.87	35.24	106	322	A	V
		5395.32	47.69	-26.31	74	36.29	34.6	11.97	35.17	106	322	P	V
		5408.2	39.44	-14.56	54	28.02	34.6	11.98	35.16	106	322	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. 1+2+3+4	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	54.68	-13.52	68.2	57.79	37.58	18.59	59.28	-	-	P	H
		13358	47.25	-26.75	74	45.28	38.98	21.21	58.22	-	-	P	H
		14491	47.32	-26.68	74	43.81	39.3	22.3	58.09	-	-	P	H
		15570	56.55	-17.45	74	50.16	40.23	23.36	57.2	304	224	P	H
		15570	47.49	-6.51	54	41.1	40.23	23.36	57.2	304	224	A	H
		17945	51.64	-22.36	74	40.15	41.9	25.6	56.01	-	-	P	H
		17945	42.01	-11.99	54	30.52	41.9	25.6	56.01	-	-	A	H
													H
													H
													H
													H
													H
													H
		10380	49.37	-18.83	68.2	52.48	37.58	18.59	59.28	-	-	P	V
		13325	47.54	-26.46	74	45.51	39.06	21.18	58.21	-	-	P	V
		14480	47.12	-26.88	74	43.64	39.28	22.29	58.09	-	-	P	V
		15570	56.37	-17.63	74	49.98	40.23	23.36	57.2	200	310	P	V
		15570	47.33	-6.67	54	40.94	40.23	23.36	57.2	200	310	A	V
		17824	52.1	-21.9	74	40.81	41.9	25.48	56.09	-	-	P	V
		17824	41.91	-12.09	54	30.62	41.9	25.48	56.09	-	-	A	V
													V
													V
													V
													V
													V

WIFI Ant. 1+2+3+4	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 46 5230MHz		10460	55.79	-12.41	68.2	58.73	37.6	18.65	59.19	-	-	P	H
		13380	47.01	-26.99	74	45.07	38.94	21.23	58.23	-	-	P	H
		14491	46.9	-27.1	74	43.39	39.3	22.3	58.09	-	-	P	H
		15690	61.41	-12.59	74	54.5	40.53	23.48	57.1	301	204	P	H
		15690	52.57	-1.43	54	45.66	40.53	23.48	57.1	301	204	A	H
		17868	51.26	-22.74	74	39.9	41.9	25.52	56.06	-	-	P	H
		17868	41.47	-12.53	54	30.11	41.9	25.52	56.06	-	-	A	H
													H
													H
													H
													H
													H
													H
		10460	51.44	-16.76	68.2	54.38	37.6	18.65	59.19	-	-	P	V
		13391	46.7	-27.3	74	44.79	38.9	21.24	58.23	-	-	P	V
		14502	47.09	-21.11	68.2	43.56	39.3	22.32	58.09	-	-	P	V
		15690	60.37	-13.63	74	53.46	40.53	23.48	57.1	190	311	P	V
		15690	52.2	-1.8	54	45.29	40.53	23.48	57.1	190	311	A	V
		17934	51.41	-22.59	74	39.94	41.9	25.59	56.02	-	-	P	V
		17934	41.53	-12.47	54	30.06	41.9	25.59	56.02	-	-	A	V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 1 5150~5250MHz

WIFI 802.11ax HE40 Partial RU (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial M CH 38 5190MHz		5144.56	55.46	-18.54	74	44.75	34.2	11.79	35.28	100	265	P	H
		5145.86	49.36	-4.64	54	38.65	34.2	11.79	35.28	100	265	A	H
	*	5190	110.77	-	-	99.93	34.27	11.84	35.27	100	238	P	H
	*	5190	103.54	-	-	92.7	34.27	11.84	35.27	100	238	A	H
		5437.88	50.34	-23.66	74	38.85	34.6	12.03	35.14	100	265	P	H
		5359.76	41.91	-12.09	54	30.74	34.4	11.95	35.18	100	265	A	H
		5144.82	58.21	-15.79	74	47.5	34.2	11.79	35.28	100	244	P	V
		5149.24	49.33	-4.67	54	38.62	34.2	11.79	35.28	100	244	A	V
	*	5190	108.54	-	-	97.7	34.27	11.84	35.27	100	244	P	V
	*	5190	98.71	-	-	87.87	34.27	11.84	35.27	100	244	A	V
		5404.56	49.1	-24.9	74	37.68	34.6	11.98	35.16	100	244	P	V
		5372.36	41.34	-12.66	54	30.1	34.47	11.95	35.18	100	244	A	V
802.11ax HE40 Partial BE CH 38 5190MHz		5139.36	67.01	-6.99	74	56.32	34.2	11.78	35.29	100	268	P	H
		5150	50.83	-3.17	54	40.12	34.2	11.79	35.28	100	268	A	H
	*	5190	114.94	-	-	104.1	34.27	11.84	35.27	100	240	P	H
	*	5190	106.94	-	-	96.1	34.27	11.84	35.27	100	240	A	H
		5372.64	50.25	-23.75	74	39.01	34.47	11.95	35.18	100	240	P	H
		5376.28	42.46	-11.54	54	31.2	34.47	11.96	35.17	100	240	A	H
		5149.76	54.23	-19.77	74	43.52	34.2	11.79	35.28	100	243	P	V
		5142.74	46.67	-7.33	54	35.98	34.2	11.78	35.29	100	243	A	V
	*	5190	112.04	-	-	101.2	34.27	11.84	35.27	100	243	P	V
	*	5190	103.44	-	-	92.6	34.27	11.84	35.27	100	243	A	V
		5360.32	49.42	-24.58	74	38.25	34.4	11.95	35.18	100	243	P	V
		5386.08	41.41	-12.59	54	30.09	34.53	11.96	35.17	100	243	A	V



WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial M CH 46 5230MHz		5145.86	53.21	-20.79	74	42.5	34.2	11.79	35.28	100	240	P	H
		5147.42	46.56	-7.44	54	35.85	34.2	11.79	35.28	100	240	A	H
	*	5230	114.08	-	-	103.15	34.3	11.87	35.24	100	240	P	H
	*	5230	106.63	-	-	95.7	34.3	11.87	35.24	100	240	A	H
		5391.68	51.05	-22.95	74	39.72	34.53	11.97	35.17	100	240	P	H
		5436.48	43.17	-10.83	54	31.68	34.6	12.03	35.14	100	240	A	H
		5150	57.44	-16.56	74	46.73	34.2	11.79	35.28	109	220	P	V
		5149.76	44.49	-9.51	54	33.78	34.2	11.79	35.28	109	220	A	V
	*	5230	109.79	-	-	98.86	34.3	11.87	35.24	109	220	P	V
	*	5230	102.09	-	-	91.16	34.3	11.87	35.24	109	220	A	V
		5401.76	49.86	-24.14	74	38.45	34.6	11.97	35.16	109	220	P	V
		5376	41.81	-12.19	54	30.55	34.47	11.96	35.17	109	220	A	V
802.11ax HE40 Partial BE CH 46 5230MHz		5144.82	50.8	-23.2	74	40.09	34.2	11.79	35.28	100	245	P	H
		5149.76	42.33	-11.67	54	31.62	34.2	11.79	35.28	100	245	A	H
	*	5230	114.83	-	-	103.9	34.3	11.87	35.24	100	245	P	H
	*	5230	107.13	-	-	96.2	34.3	11.87	35.24	100	245	A	H
		5414.92	51.06	-22.94	74	39.63	34.6	11.99	35.16	100	245	P	H
		5415.76	42.78	-11.22	54	31.35	34.6	11.99	35.16	100	245	A	H
		5143.78	48.79	-25.21	74	38.08	34.2	11.79	35.28	106	240	P	V
		5150	41.05	-12.95	54	30.34	34.2	11.79	35.28	106	240	A	V
	*	5230	111.97	-	-	101.04	34.3	11.87	35.24	106	240	P	V
	*	5230	103.63	-	-	92.7	34.3	11.87	35.24	106	240	A	V
		5356.12	50.35	-23.65	74	39.19	34.4	11.94	35.18	106	240	P	V
		5376.28	41.37	-12.63	54	30.11	34.47	11.96	35.17	106	240	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 Partial RU (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial M CH 38 5190MHz		10380	50.44	-17.76	68.2	53.55	37.58	18.59	59.28	-	-	P	H
		13281	45.91	-28.09	74	43.9	39.07	21.14	58.2	-	-	P	H
		14480	46.8	-27.2	74	43.32	39.28	22.29	58.09	-	-	P	H
		15570	51.09	-22.91	74	44.7	40.23	23.36	57.2	300	203	P	H
		15570	39.94	-14.06	54	33.55	40.23	23.36	57.2	300	203	A	H
		17967	52.12	-21.88	74	40.6	41.9	25.62	56	-	-	P	H
		17967	42.02	-11.98	54	30.5	41.9	25.62	56	-	-	A	H
													H
													H
													H
													H
													H
		10380	47.82	-20.38	68.2	50.93	37.58	18.59	59.28	-	-	P	V
		13251	45.87	-28.13	74	43.92	39.03	21.11	58.19	-	-	P	V
		14491	46.98	-27.02	74	43.47	39.3	22.3	58.09	-	-	P	V
		15570	52.19	-21.81	74	45.8	40.23	23.36	57.2	200	305	P	V
		15570	39.88	-14.12	54	33.49	40.23	23.36	57.2	200	305	A	V
		17934	51.25	-22.75	74	39.78	41.9	25.59	56.02	-	-	P	V
		17934	42.08	-11.92	54	30.61	41.9	25.59	56.02	-	-	A	V
													V
													V
													V
													V
													V



WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial BE CH 38 5190MHz		10380	56.92	-11.28	68.2	60.03	37.58	18.59	59.28	-	-	P	H
		13369	48.15	-25.85	74	46.21	38.94	21.22	58.22	-	-	P	H
		13369	37.48	-16.52	54	35.54	38.94	21.22	58.22	-	-	A	H
		14480	48.25	-25.75	74	44.77	39.28	22.29	58.09	-	-	P	H
		14480	37.54	-16.46	54	34.06	39.28	22.29	58.09	-	-	A	H
		15570	63.56	-10.44	74	57.17	40.23	23.36	57.2	258	202	P	H
		15570	52.06	-1.94	54	45.67	40.23	23.36	57.2	258	202	A	H
		17758	52.85	-21.15	74	41.68	41.87	25.43	56.13	-	-	P	H
		17758	41.77	-12.23	54	30.6	41.87	25.43	56.13	-	-	A	H
													H
													H
													H
		10380	52.53	-15.67	68.2	55.64	37.58	18.59	59.28	-	-	P	V
		13325	47.28	-26.72	74	45.25	39.06	21.18	58.21	-	-	P	V
		14499	47.66	-26.34	74	44.14	39.3	22.31	58.09	-	-	P	V
		15570	61	-13	74	54.61	40.23	23.36	57.2	200	302	P	V
		15570	52.04	-1.96	54	45.65	40.23	23.36	57.2	200	302	A	V
		17769	52.48	-21.52	74	41.29	41.87	25.44	56.12	-	-	P	V
		17769	41.94	-12.06	54	30.75	41.87	25.44	56.12	-	-	A	V
													V
													V
													V
													V
													V



WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial M CH 46 5230MHz		10460	60.15	-8.05	68.2	63.09	37.6	18.65	59.19	-	-	P	H
		13391	48.07	-25.93	74	46.16	38.9	21.24	58.23	-	-	P	H
		13391	37.47	-16.53	54	35.56	38.9	21.24	58.23	-	-	A	H
		14499	48.32	-25.68	74	44.8	39.3	22.31	58.09	-	-	P	H
		14499	37.78	-16.22	54	34.26	39.3	22.31	58.09	-	-	A	H
		15690	62.49	-11.51	74	55.58	40.53	23.48	57.1	298	200	P	H
		15690	52.01	-1.99	54	45.1	40.53	23.48	57.1	298	200	A	H
		17780	52.17	-21.83	74	40.95	41.88	25.45	56.11	-	-	P	H
		17780	41.75	-12.25	54	30.53	41.88	25.45	56.11	-	-	A	H
													H
													H
		10460	54.7	-13.5	68.2	57.64	37.6	18.65	59.19	-	-	P	H
		13380	47.98	-26.02	74	46.04	38.94	21.23	58.23	-	-	P	V
		14499	48.05	-25.95	74	44.53	39.3	22.31	58.09	-	-	P	V
		14499	37.62	-16.38	54	34.1	39.3	22.31	58.09	-	-	A	V
		15690	62.16	-11.84	74	55.25	40.53	23.48	57.1	200	307	P	V
		15690	51.77	-2.23	54	44.86	40.53	23.48	57.1	200	307	A	V
		17802	52.15	-21.85	74	40.89	41.9	25.46	56.1	-	-	P	V
		17802	42.07	-11.93	54	30.81	41.9	25.46	56.1	-	-	A	V
													V
													V
													V
													V
													V

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2+3+4		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11ax HE40 Partial BE CH 46 5230MHz		10460	52.19	-16.01	68.2	55.13	37.6	18.65	59.19	-	-	P	H
		13380	46.85	-27.15	74	44.91	38.94	21.23	58.23	-	-	P	H
		14499	48.22	-25.78	74	44.69	39.3	22.32	58.09	-	-	P	H
		14499	37.97	-16.03	54	34.44	39.3	22.32	58.09	-	-	A	H
		15690	65.05	-8.95	74	58.14	40.53	23.48	57.1	254	199	P	H
		15690	52.71	-1.29	54	45.8	40.53	23.48	57.1	254	199	A	H
		17769	51.37	-22.63	74	40.18	41.87	25.44	56.12	-	-	P	H
		17769	41.7	-12.3	54	30.51	41.87	25.44	56.12	-	-	A	H
													H
													H
													H
													H
		10460	51.94	-16.26	68.2	54.88	37.6	18.65	59.19	-	-	P	V
		13358	47.37	-26.63	74	45.4	38.98	21.21	58.22	-	-	P	V
		14480	48.9	-25.1	74	45.42	39.28	22.29	58.09	-	-	P	V
		14480	37.99	-16.01	54	34.51	39.28	22.29	58.09	-	-	A	V
		15690	64.63	-9.37	74	57.72	40.53	23.48	57.1	200	305	P	V
		15690	52.41	-1.59	54	45.5	40.53	23.48	57.1	200	305	A	V
		17714	52.51	-21.49	74	41.45	41.82	25.39	56.15	-	-	P	V
		17714	41.97	-12.03	54	30.91	41.82	25.39	56.15	-	-	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 1 5150~5250MHz

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

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 42 5210MHz		5143.26	58.95	-15.05	74	48.26	34.2	11.78	35.29	100	277	P	H
		5141.96	51.88	-2.12	54	41.19	34.2	11.78	35.29	100	277	A	H
	*	5210	112.04	-	-	101.13	34.3	11.86	35.25	100	245	P	H
	*	5210	102.97	-	-	92.06	34.3	11.86	35.25	100	245	A	H
		5423.6	49.68	-24.32	74	38.23	34.6	12.01	35.16	100	277	P	H
		5369	42.05	-11.95	54	30.81	34.47	11.95	35.18	100	277	A	H
		5148.46	58.89	-15.11	74	48.18	34.2	11.79	35.28	100	245	P	V
		5149.76	51.73	-2.27	54	41.02	34.2	11.79	35.28	100	245	A	V
	*	5210	107.08	-	-	96.17	34.3	11.86	35.25	300	255	P	V
	*	5210	98.62	-	-	87.71	34.3	11.86	35.25	300	255	A	V
		5384.12	49.25	-24.75	74	37.93	34.53	11.96	35.17	100	245	P	V
		5360.6	41.37	-12.63	54	30.13	34.47	11.95	35.18	100	245	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2+3+4		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11ax HE80 Full CH 42 5210MHz		10420	52.05	-16.15	68.2	55.07	37.6	18.62	59.24	-	-	P	H
		13308	47.09	-26.91	74	45.03	39.1	21.17	58.21	-	-	P	H
		14481	46.94	-27.06	74	43.46	39.28	22.29	58.09	-	-	P	H
		15630	50.62	-23.38	74	44.02	40.33	23.42	57.15	257	201	P	H
		15630	42.15	-11.85	54	35.55	40.33	23.42	57.15	257	201	A	H
		17949	51.83	-22.17	74	40.34	41.9	25.6	56.01	-	-	P	H
		17949	41.87	-12.13	54	30.38	41.9	25.6	56.01	-	-	A	H
													H
													H
													H
													H
													H
													H
		10420	49.05	-19.15	68.2	52.07	37.6	18.62	59.24	-	-	P	V
		13376	47.63	-26.37	74	45.69	38.94	21.23	58.23	-	-	P	V
		14498	47.67	-26.33	74	44.15	39.3	22.31	58.09	-	-	P	V
		15630	47.36	-26.64	74	40.76	40.33	23.42	57.15	-	-	P	V
		17779	51.92	-22.08	74	40.71	41.88	25.44	56.11	-	-	P	V
		17779	41.71	-12.29	54	30.5	41.88	25.44	56.11	-	-	A	V
													V
												V	
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 1 5150~5250MHz

WIFI 802.11ax HE80 Partial RU (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial M CH 42 5210MHz		5146.64	63.64	-10.36	74	52.93	34.2	11.79	35.28	100	245	P	H
		5137.02	51.87	-2.13	54	41.18	34.2	11.78	35.29	100	245	A	H
	*	5210	110.64	-	-	99.73	34.3	11.86	35.25	100	245	P	H
	*	5210	101.96	-	-	91.05	34.3	11.86	35.25	100	245	A	H
		5367.04	50.45	-23.55	74	39.21	34.47	11.95	35.18	100	245	P	H
		5365.36	45.71	-8.29	54	34.47	34.47	11.95	35.18	100	245	A	H
		5133.12	55.54	-18.46	74	44.86	34.2	11.77	35.29	100	322	P	V
		5134.68	45.7	-8.3	54	35.02	34.2	11.77	35.29	100	322	A	V
	*	5210	104.56	-	-	93.65	34.3	11.86	35.25	100	322	P	V
	*	5210	97.55	-	-	86.64	34.3	11.86	35.25	100	322	A	V
		5361.72	50.32	-23.68	74	39.08	34.47	11.95	35.18	100	322	P	V
		5363.68	42.73	-11.27	54	31.49	34.47	11.95	35.18	100	322	A	V
802.11ax HE80 Partial BE CH 42 5210MHz		5143.78	56.07	-17.93	74	45.36	34.2	11.79	35.28	100	244	P	H
		5138.32	52.69	-1.31	54	42	34.2	11.78	35.29	100	244	A	H
	*	5210	108.94	-	-	98.03	34.3	11.86	35.25	100	244	P	H
	*	5210	101.71	-	-	90.8	34.3	11.86	35.25	100	244	A	H
		5381.32	51.66	-22.34	74	40.34	34.53	11.96	35.17	100	244	P	H
		5375.44	43.23	-10.77	54	31.97	34.47	11.96	35.17	100	244	A	H
		5141.96	55.49	-18.51	74	44.8	34.2	11.78	35.29	111	236	P	V
		5150	46.6	-7.4	54	35.89	34.2	11.79	35.28	111	236	A	V
	*	5210	107.39	-	-	96.48	34.3	11.86	35.25	111	236	P	V
	*	5210	99.9	-	-	88.99	34.3	11.86	35.25	111	236	A	V
		5411.84	50.78	-23.22	74	39.35	34.6	11.99	35.16	111	236	P	V
		5350.52	41.9	-12.1	54	30.74	34.4	11.94	35.18	111	236	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 Partial RU (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial M CH 42 5210MHz		10420	50.67	-17.53	68.2	53.69	37.6	18.62	59.24	-	-	P	H
		13347	47.79	-26.21	74	45.79	39.02	21.2	58.22	-	-	P	H
		14491	47.72	-26.28	74	44.21	39.3	22.3	58.09	-	-	P	H
		15630	55.81	-18.19	74	49.21	40.33	23.42	57.15	250	200	P	H
		15630	41.56	-12.44	54	34.96	40.33	23.42	57.15	250	200	A	H
		17769	53.25	-20.75	74	42.06	41.87	25.44	56.12	-	-	P	H
		17769	43.05	-10.95	54	31.86	41.87	25.44	56.12	-	-	A	H
													H
													H
													H
													H
													H
		10420	49.84	-18.36	68.2	52.86	37.6	18.62	59.24	-	-	P	V
		13380	48.92	-25.08	74	46.98	38.94	21.23	58.23	-	-	P	V
		13380	37.53	-16.47	54	35.59	38.94	21.23	58.23	-	-	A	V
		14480	47.84	-26.16	74	44.36	39.28	22.29	58.09	-	-	P	V
		15630	55.05	-18.95	74	48.45	40.33	23.42	57.15	204	302	P	V
		15630	41.03	-12.97	54	34.43	40.33	23.42	57.15	204	302	A	V
		17989	52.28	-21.72	74	40.73	41.9	25.64	55.99	-	-	P	V
		17989	42.57	-11.43	54	31.02	41.9	25.64	55.99	-	-	A	V
													V
													V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial BE CH 42 5210MHz		10420	52.12	-16.08	68.2	55.14	37.6	18.62	59.24	-	-	P	H
		13380	47.83	-26.17	74	45.89	38.94	21.23	58.23	-	-	P	H
		14491	48.53	-25.47	74	45.02	39.3	22.3	58.09	-	-	P	H
		14491	38.24	-15.76	54	34.73	39.3	22.3	58.09	-	-	A	H
		15630	60.04	-13.96	74	53.44	40.33	23.42	57.15	300	203	P	H
		15630	42.13	-11.87	54	35.53	40.33	23.42	57.15	300	203	A	H
		17780	52.68	-21.32	74	41.46	41.88	25.45	56.11	-	-	P	H
		17780	42.39	-11.61	54	31.17	41.88	25.45	56.11	-	-	A	H
													H
													H
													H
													H
		10420	48.92	-19.28	68.2	51.94	37.6	18.62	59.24	-	-	P	V
		13336	47.54	-26.46	74	45.54	39.02	21.19	58.21	-	-	P	V
		14480	47.2	-26.8	74	43.72	39.28	22.29	58.09	-	-	P	V
		15630	56.82	-17.18	74	50.22	40.33	23.42	57.15	200	307	P	V
		15630	42.24	-11.76	54	35.64	40.33	23.42	57.15	200	307	A	V
		17725	52.82	-21.18	74	41.74	41.83	25.4	56.15	-	-	P	V
		17725	42.27	-11.73	54	31.19	41.83	25.4	56.15	-	-	A	V
													V
												V	
												V	
												V	
												V	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

Emission above 18GHz

WIFI 802.11ax HE20 Full (SHF @ 1m)

[illegible]



Emission below 1GHz

WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI Ant. 1+2+3+4	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 LF		105.6	30.57	-12.93	43.5	42.29	16.52	1.75	29.99	-	-	P	H
		125.04	28.28	-15.22	43.5	38.84	17.52	1.91	29.99	-	-	P	H
		185.79	32.71	-10.79	43.5	45.59	14.81	2.28	29.97	-	-	P	H
		337.1	29.22	-16.78	46	36.36	19.9	2.94	29.98	-	-	P	H
		500.2	32.08	-13.92	46	34.56	23.82	3.55	29.85	-	-	P	H
		955.9	32.59	-13.41	46	25.8	30.59	4.89	28.69	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.53	-6.47	40	38.09	24.57	0.9	30.03	-	-	P	V
		62.4	29.72	-10.28	40	46.54	11.79	1.39	30	-	-	P	V
		183.36	32.71	-10.79	43.5	45.59	14.82	2.27	29.97	-	-	P	V
		500.2	32.81	-13.19	46	35.29	23.82	3.55	29.85	-	-	P	V
		919.5	31.07	-14.93	46	26.24	28.92	4.74	28.83	-	-	P	V
		955.2	32.97	-13.03	46	26.22	30.55	4.89	28.69	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



<TXBF Mode>

Band 1 - 5150~5250MHz

WIFI 802.11ax HE20 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.
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 36 5180MHz		5148.72	53.67	-20.33	74	42.96	34.2	11.79	35.28	100	303	P	H
		5149.76	47.87	-6.13	54	37.16	34.2	11.79	35.28	100	303	A	H
	*	5180	115.02	-	-	104.19	34.27	11.83	35.27	100	303	P	H
	*	5180	107.32	-	-	96.49	34.27	11.83	35.27	100	303	A	H
													H
													H
		5144.04	52.86	-21.14	74	42.15	34.2	11.79	35.28	100	235	P	V
		5143.78	46.88	-7.12	54	36.17	34.2	11.79	35.28	100	235	A	V
	*	5180	115.35	-	-	104.52	34.27	11.83	35.27	100	235	P	V
	*	5180	107.09	-	-	96.26	34.27	11.83	35.27	100	235	A	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		5026.26	50.52	-23.48	74	39.96	34.25	11.65	35.34	100	323	P	H
		5147.16	41.77	-12.23	54	30.86	34.4	11.79	35.28	100	323	A	H
	*	5220	116	-	-	104.83	34.56	11.86	35.25	100	323	P	H
	*	5220	108.46	-	-	97.29	34.56	11.86	35.25	100	323	A	H
		5407.36	50.78	-23.22	74	39.17	34.79	11.98	35.16	100	323	P	H
		5408.76	42.36	-11.64	54	30.76	34.78	11.98	35.16	100	323	A	H
		5059.8	50.44	-23.56	74	39.84	34.24	11.69	35.33	233	243	P	V
		5149.5	41.58	-12.42	54	30.67	34.4	11.79	35.28	233	243	A	V
	*	5220	113.4	-	-	102.23	34.56	11.86	35.25	233	243	P	V
	*	5220	106.03	-	-	94.86	34.56	11.86	35.25	233	243	A	V
		5442.08	49.94	-24.06	74	38.32	34.72	12.04	35.14	233	243	P	V
		5419.96	41.6	-12.4	54	30	34.76	12	35.16	233	243	A	V



802.11ax HE20 Full CH 48 5240MHz		5135.2	50.61	-23.39	74	39.72	34.4	11.78	35.29	100	340	P	H
		5141.18	41.8	-12.2	54	30.91	34.4	11.78	35.29	100	340	A	H
	*	5240	116.11	-	-	104.96	34.52	11.87	35.24	100	340	P	H
	*	5240	108.63	-	-	97.48	34.52	11.87	35.24	100	340	A	H
		5419.96	50.78	-23.22	74	39.18	34.76	12	35.16	100	340	P	H
		5430.32	42.58	-11.42	54	30.96	34.74	12.02	35.14	100	340	A	H
		5056.94	49.75	-24.25	74	39.16	34.23	11.69	35.33	100	243	P	V
		5144.82	41.6	-12.4	54	30.69	34.4	11.79	35.28	100	243	A	V
	*	5240	114.07	-	-	102.92	34.52	11.87	35.24	100	243	P	V
	*	5240	106.73	-	-	95.58	34.52	11.87	35.24	100	243	A	V
		5393.36	50.62	-23.38	74	39.07	34.75	11.97	35.17	100	243	P	V
		5440.4	42.09	-11.91	54	30.48	34.72	12.03	35.14	100	243	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. 1+2+3+4	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	56.33	-11.87	68.2	59.41	37.66	18.57	59.31	-	-	P	H
		13347	47.79	-26.21	74	45.46	39.35	21.2	58.22	-	-	P	H
		14499	48.2	-25.8	74	44.28	39.7	22.31	58.09	-	-	P	H
		14499	38.82	-15.18	54	34.9	39.7	22.31	58.09	-	-	A	H
		15540	48.18	-25.82	74	40.98	41.1	23.33	57.23	-	-	P	H
		15540	38.05	-15.95	54	30.85	41.1	23.33	57.23	-	-	A	H
		17714	52.73	-21.27	74	41.52	41.97	25.39	56.15	-	-	P	H
		17714	42.81	-11.19	54	31.6	41.97	25.39	56.15	-	-	A	H
													H
													H
													H
													H
		10360	54.18	-14.02	68.2	57.26	37.66	18.57	59.31	-	-	P	V
		13314	48.04	-25.96	74	45.69	39.39	21.17	58.21	-	-	P	V
		13314	38.24	-15.76	54	35.89	39.39	21.17	58.21	-	-	A	V
		14499	48.02	-25.98	74	44.1	39.7	22.31	58.09	-	-	P	V
		14499	38.22	-15.78	54	34.3	39.7	22.31	58.09	-	-	A	V
		15540	47.06	-26.94	74	39.86	41.1	23.33	57.23	-	-	P	V
		17769	51.84	-22.16	74	40.66	41.86	25.44	56.12	-	-	P	V
		17769	42.68	-11.32	54	31.5	41.86	25.44	56.12	-	-	A	V
													V
													V
													V
													V



WIFI Ant. 1+2+3+4	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 44 5220MHz		10440	55.6	-12.6	68.2	58.51	37.66	18.64	59.21	-	-	P	H
		13358	48.66	-25.34	74	46.33	39.34	21.21	58.22	-	-	P	H
		13358	38.44	-15.56	54	36.11	39.34	21.21	58.22	-	-	A	H
		14480	48.38	-25.62	74	44.54	39.64	22.29	58.09	-	-	P	H
		14480	38.14	-15.86	54	34.3	39.64	22.29	58.09	-	-	A	H
		15660	48.52	-25.48	74	41.03	41.16	23.45	57.12	-	-	P	H
		15660	38.78	-15.22	54	31.29	41.16	23.45	57.12	-	-	A	H
		17725	52.56	-21.44	74	41.36	41.95	25.4	56.15	-	-	P	H
		17725	42.7	-11.3	54	31.5	41.95	25.4	56.15	-	-	A	H
													H
													H
													H
		10440	54.07	-14.13	68.2	56.98	37.66	18.64	59.21	-	-	P	V
		13402	48.61	-19.59	68.2	46.29	39.3	21.25	58.23	-	-	P	V
		14491	48.72	-25.28	74	44.84	39.67	22.3	58.09	-	-	P	V
		14491	38.39	-15.61	54	34.51	39.67	22.3	58.09	-	-	A	V
		15660	48.28	-25.72	74	40.79	41.16	23.45	57.12	-	-	P	V
		15660	38.57	-15.43	54	31.08	41.16	23.45	57.12	-	-	A	V
		17934	52.26	-21.74	74	40.82	41.87	25.59	56.02	-	-	P	V
		17934	42.53	-11.47	54	31.09	41.87	25.59	56.02	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2+3+4	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 48 5240MHz		10480	54.46	-13.74	68.2	57.33	37.62	18.67	59.16	-	-	P	H
		13347	48.16	-25.84	74	45.83	39.35	21.2	58.22	-	-	P	H
		13347	38.24	-15.76	54	35.91	39.35	21.2	58.22	-	-	A	H
		14499	47.68	-26.32	74	43.76	39.7	22.31	58.09	-	-	P	H
		15720	47.77	-26.23	74	40.04	41.3	23.5	57.07	-	-	P	H
		17758	51.81	-22.19	74	40.63	41.88	25.43	56.13	-	-	P	H
		17758	42.71	-11.29	54	31.53	41.88	25.43	56.13	-	-	A	H
													H
													H
													H
													H
													H
													H
		10480	53.35	-14.85	68.2	56.22	37.62	18.67	59.16	-	-	P	V
		13369	47.9	-26.1	74	45.57	39.33	21.22	58.22	-	-	P	V
		14499	48.09	-25.91	74	44.17	39.7	22.31	58.09	-	-	P	V
		14499	39.03	-14.97	54	35.11	39.7	22.31	58.09	-	-	A	V
		15720	48.87	-25.13	74	41.14	41.3	23.5	57.07	-	-	P	V
		15720	38.92	-15.08	54	31.19	41.3	23.5	57.07	-	-	A	V
		17879	51.72	-22.28	74	40.36	41.88	25.53	56.05	-	-	P	V
	17879	43.1	-10.9	54	31.74	41.88	25.53	56.05	-	-	A	V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 1 5150~5250MHz

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

WIFI Ant. 1+2+3+4	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		5147.94	60.46	-13.54	74	49.75	34.2	11.79	35.28	100	302	P	H
		5147.16	52	-2	54	41.29	34.2	11.79	35.28	100	302	A	H
	*	5190	110.89	-	-	100.05	34.27	11.84	35.27	100	302	P	H
	*	5190	106.51	-	-	95.67	34.27	11.84	35.27	100	302	A	H
		5451.88	50.97	-23.03	74	39.45	34.6	12.05	35.13	100	302	P	H
		5372.36	42.71	-11.29	54	31.47	34.47	11.95	35.18	100	302	A	H
		5149.24	57.25	-16.75	74	46.54	34.2	11.79	35.28	100	243	P	V
		5150	52.31	-1.69	54	41.6	34.2	11.79	35.28	100	243	A	V
	*	5190	109.6	-	-	98.76	34.27	11.84	35.27	100	243	P	V
	*	5190	103.24	-	-	92.4	34.27	11.84	35.27	100	243	A	V
		5376	50.33	-23.67	74	39.07	34.47	11.96	35.17	100	243	P	V
		5378.8	41.83	-12.17	54	30.51	34.53	11.96	35.17	100	243	A	V
802.11ax HE40 Full CH 46 5230MHz		5112.06	51.68	-22.32	74	40.83	34.4	11.75	35.3	100	266	P	H
		5149.24	44.64	-9.36	54	33.73	34.4	11.79	35.28	100	266	A	H
	*	5230	113.75	-	-	102.58	34.54	11.87	35.24	100	266	P	H
	*	5230	107.18	-	-	96.01	34.54	11.87	35.24	100	266	A	H
		5425.56	51.04	-22.96	74	39.42	34.75	12.01	35.14	100	266	P	H
		5409.6	42.86	-11.14	54	31.26	34.78	11.98	35.16	100	266	A	H
		5122.46	50.95	-23.05	74	40.08	34.4	11.76	35.29	100	245	P	V
		5148.46	42.54	-11.46	54	31.63	34.4	11.79	35.28	100	245	A	V
	*	5230	110.04	-	-	98.87	34.54	11.87	35.24	100	245	P	V
	*	5230	103.46	-	-	92.29	34.54	11.87	35.24	100	245	A	V
		5440.68	50.4	-23.6	74	38.79	34.72	12.03	35.14	100	245	P	V
		5413.52	42.08	-11.92	54	30.48	34.77	11.99	35.16	100	245	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. 1+2+3+4	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	51.22	-16.98	68.2	54.23	37.68	18.59	59.28	-	-	P	H
		13369	47.44	-26.56	74	45.11	39.33	21.22	58.22	-	-	P	H
		14480	47.39	-26.61	74	43.55	39.64	22.29	58.09	-	-	P	H
		15570	46.06	-27.94	74	38.8	41.1	23.36	57.2	-	-	P	H
		17956	52.09	-21.91	74	40.65	41.84	25.61	56.01	-	-	P	H
		17956	42.48	-11.52	54	31.04	41.84	25.61	56.01	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
		10380	47.94	-20.26	68.2	50.95	37.68	18.59	59.28	-	-	P	V
		13369	46.95	-27.05	74	44.62	39.33	21.22	58.22	-	-	P	V
		14480	47.14	-26.86	74	43.3	39.64	22.29	58.09	-	-	P	V
		15570	46.39	-27.61	74	39.13	41.1	23.36	57.2	-	-	P	V
		17901	51.31	-22.69	74	39.9	41.9	25.55	56.04	-	-	P	V
		17901	41.44	-12.56	54	30.03	41.9	25.55	56.04	-	-	A	V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2+3+4	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 46 5230MHz		10460	54.28	-13.92	68.2	57.18	37.64	18.65	59.19	-	-	P	H
		13314	45.81	-28.19	74	43.46	39.39	21.17	58.21	-	-	P	H
		14480	47.05	-26.95	74	43.21	39.64	22.29	58.09	-	-	P	H
		15690	47.82	-26.18	74	40.25	41.19	23.48	57.1	-	-	P	H
		17769	51.48	-22.52	74	40.3	41.86	25.44	56.12	-	-	P	H
		17769	41.29	-12.71	54	30.11	41.86	25.44	56.12	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
									</				



Band 1 5150~5250MHz

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

WIFI Ant. 1+2+3+4	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		5144.04	55.89	-18.11	74	45.18	34.2	11.79	35.28	100	304	P	H
		5146.12	49.32	-4.68	54	38.61	34.2	11.79	35.28	100	304	A	H
	*	5210	110.9	-	-	99.99	34.3	11.86	35.25	100	304	P	H
	*	5210	104.52	-	-	93.61	34.3	11.86	35.25	100	304	A	H
		5397.84	49.57	-24.43	74	38.17	34.6	11.97	35.17	100	304	P	H
		5370.96	42.01	-11.99	54	30.77	34.47	11.95	35.18	100	304	A	H
		5148.46	56.77	-17.23	74	46.06	34.2	11.79	35.28	100	242	P	V
		5149.24	51.37	-2.63	54	40.66	34.2	11.79	35.28	100	242	A	V
	*	5210	104.85	-	-	93.94	34.3	11.86	35.25	100	242	P	V
	*	5210	99.21	-	-	88.3	34.3	11.86	35.25	100	242	A	V
		5430.6	49.4	-24.6	74	37.92	34.6	12.02	35.14	100	242	P	V
		5361.16	41.19	-12.81	54	29.95	34.47	11.95	35.18	100	242	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)

[illegible]



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+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	17.9~24.6°C
		Relative Humidity :	53.1~69%

Note symbol

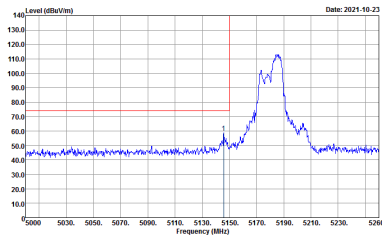
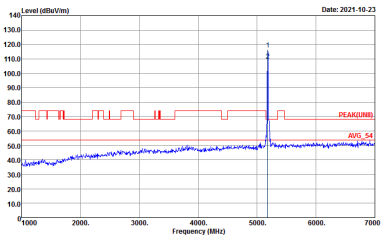
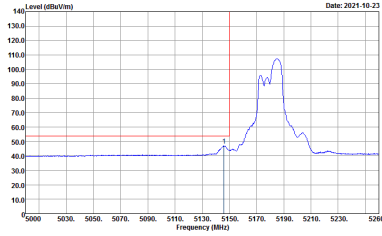
-L	Low channel location
-R	High channel location

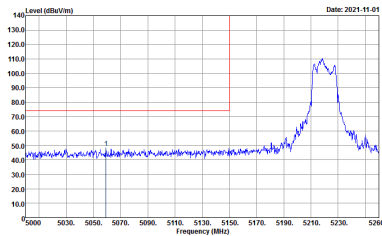
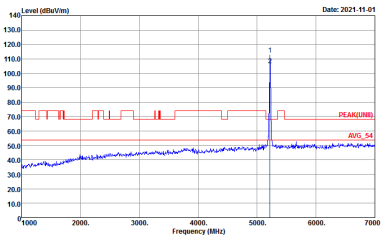
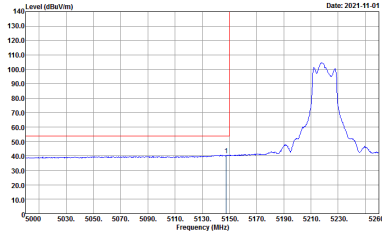


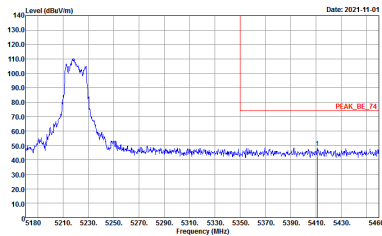
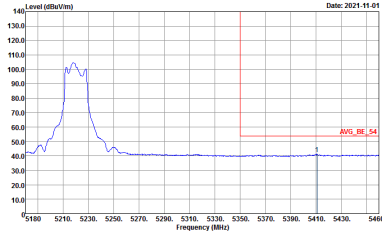
<CDD Mode>

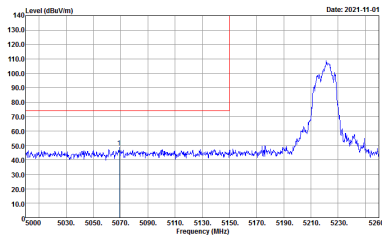
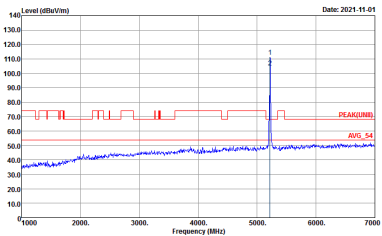
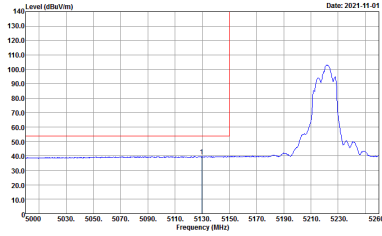
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

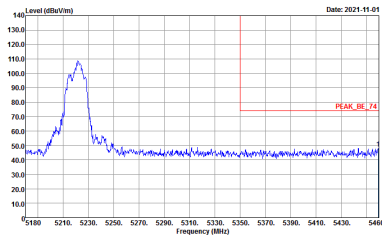
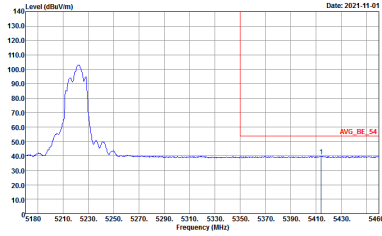
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3+4	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

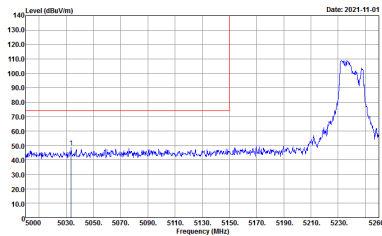
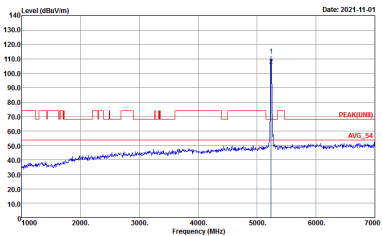
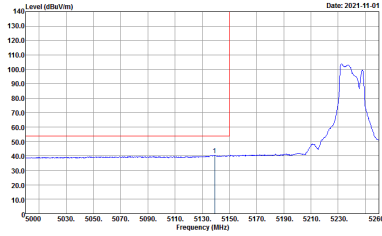
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto	Left blank

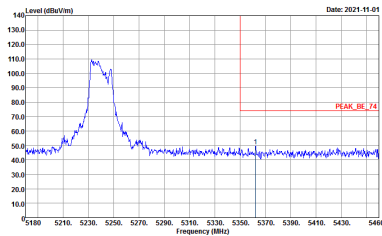
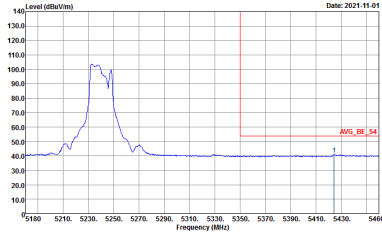
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto	Left blank

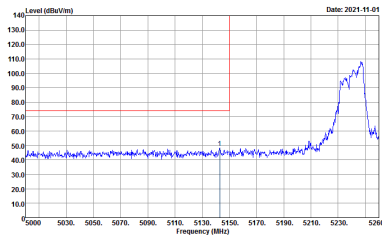
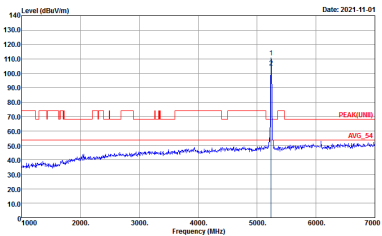
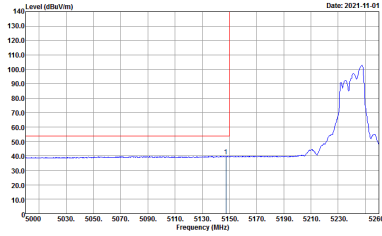
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

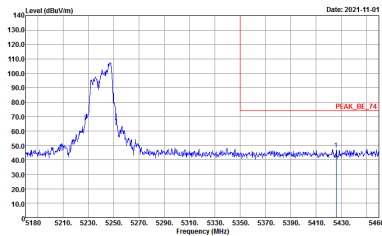
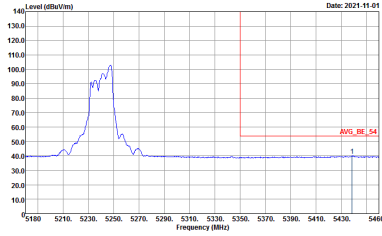
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Date: 2021-11-01	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Date: 2021-11-01	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

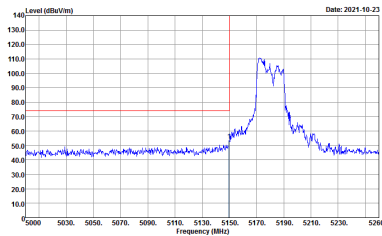
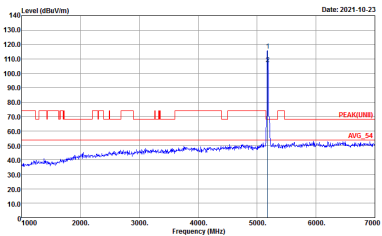
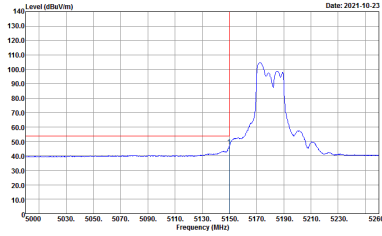


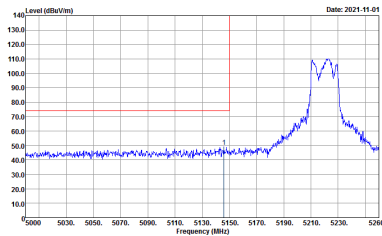
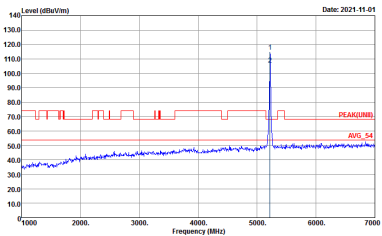
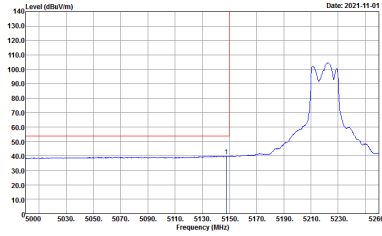
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank



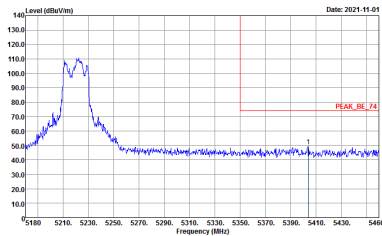
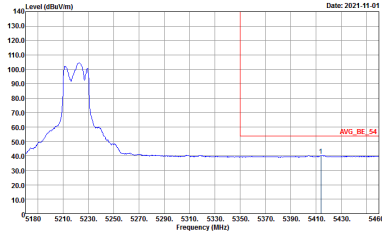
Band 1 5150~5250MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

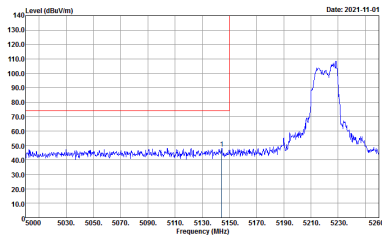
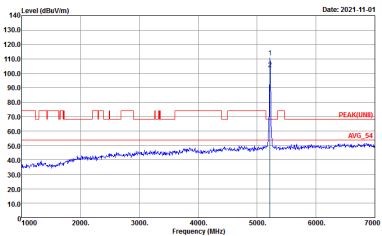
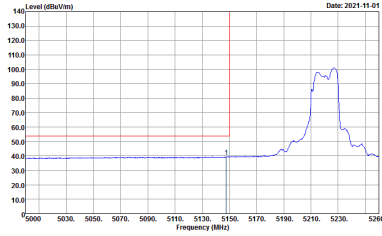
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+2+3+4	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto	Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWTA:Auto	Left blank

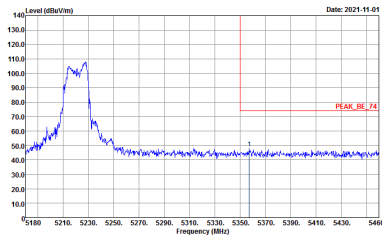
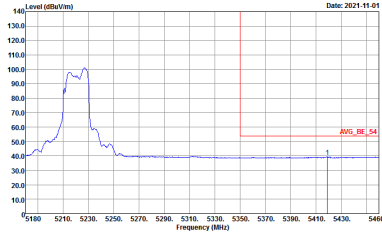
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

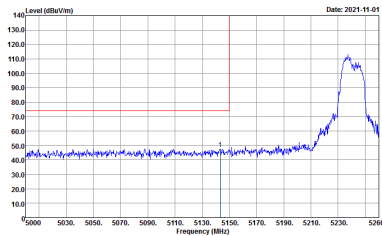
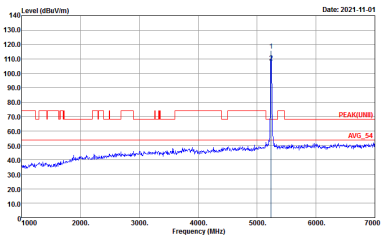
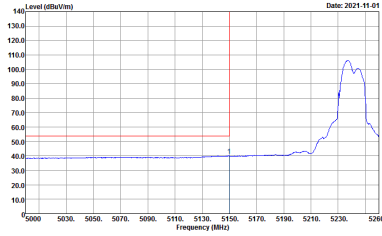
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



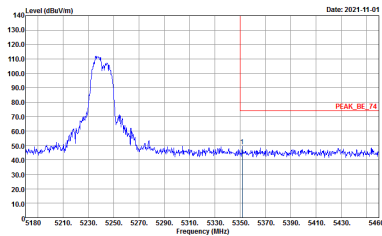
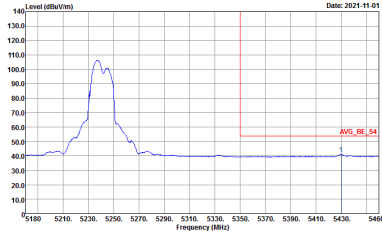
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

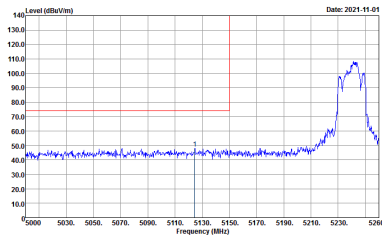
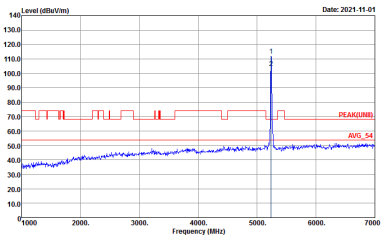
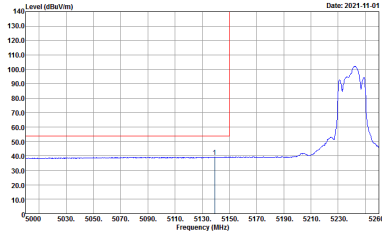
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

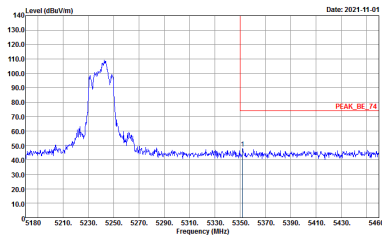
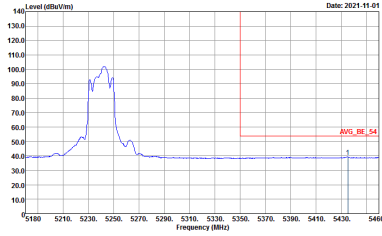
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

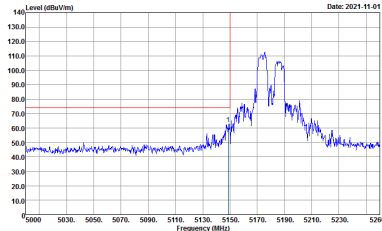
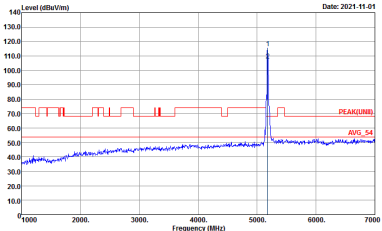
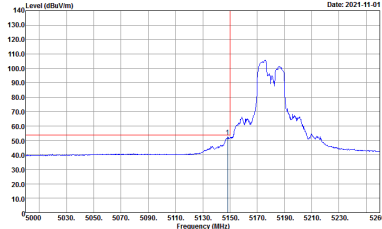
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

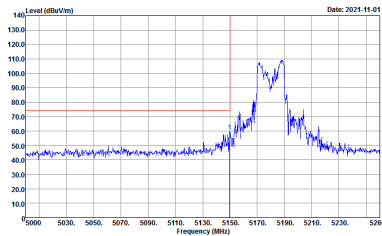
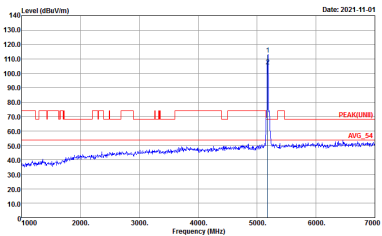
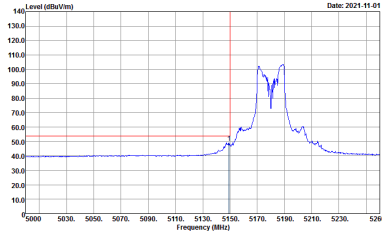


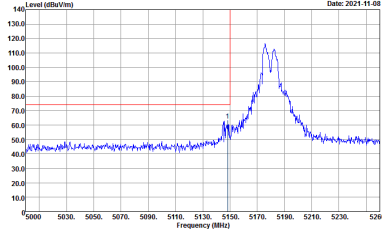
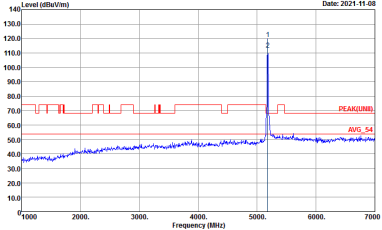
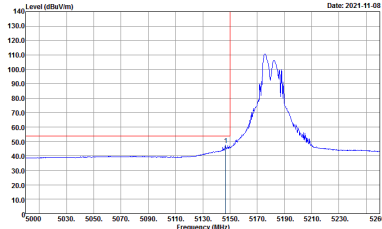
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

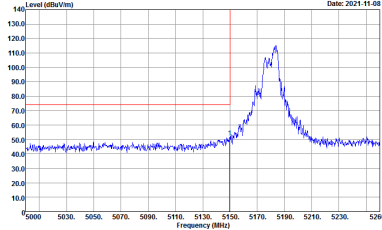
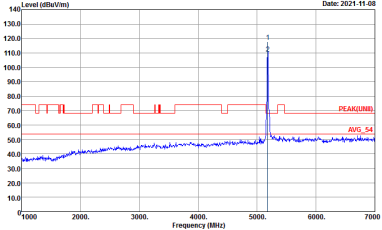
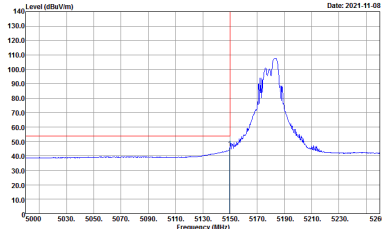


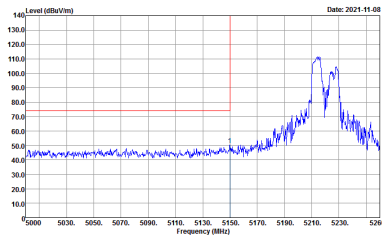
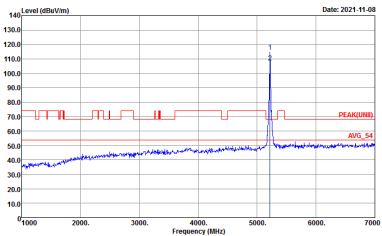
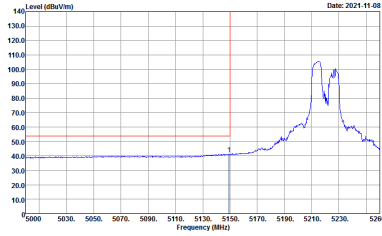
Band 1 5150~5250MHz
WIFI 802.11ax HE20 Partial RU (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH36 5180MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto	 Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWTA:Auto	Left blank

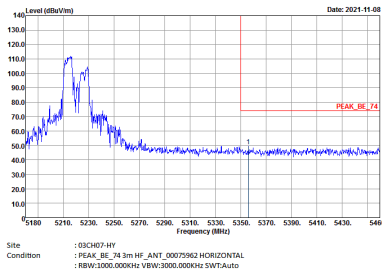
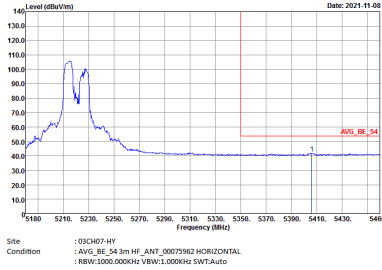
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH36 5180MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

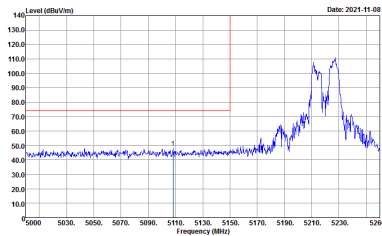
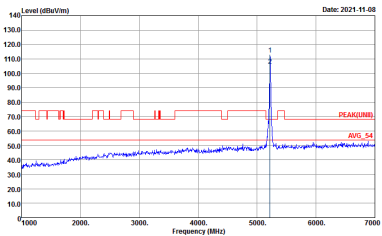
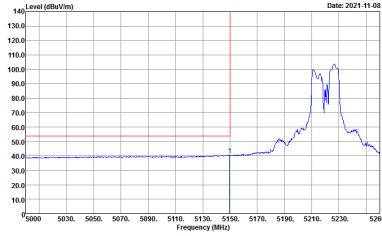
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH36 5180MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.300KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH36 5180MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.300KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH44 5220MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

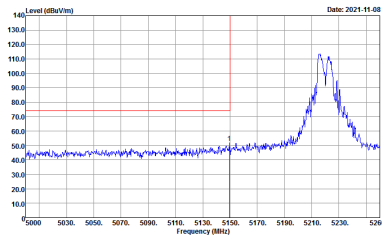
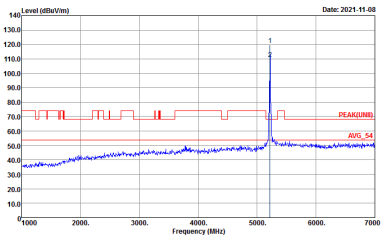
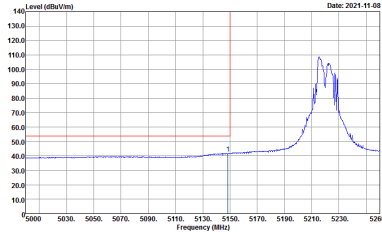


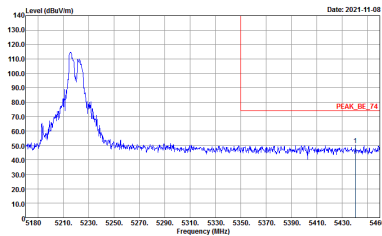
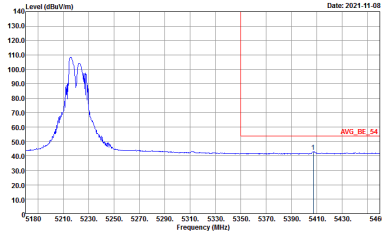
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH44 5220MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

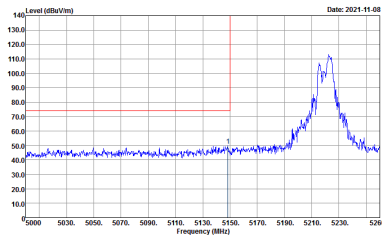
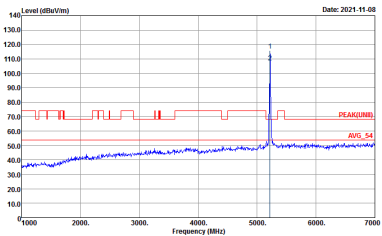
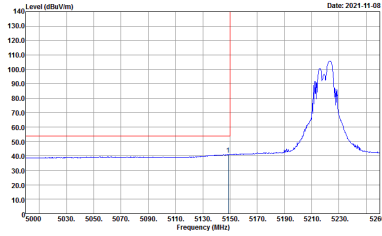
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH44 5220MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank



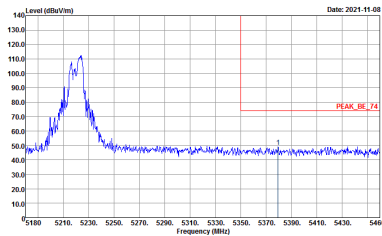
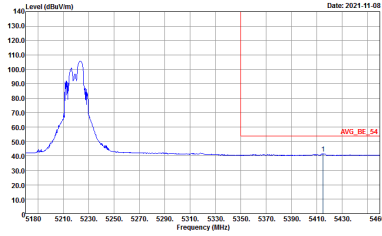
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH44 5220MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

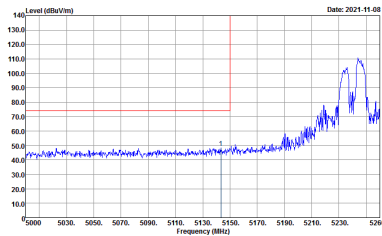
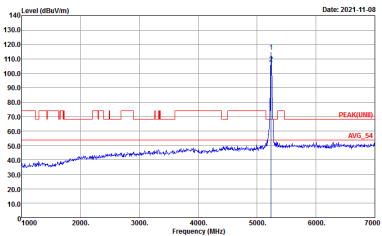
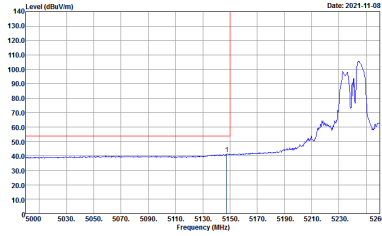
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH44 5220MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH44 5220MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

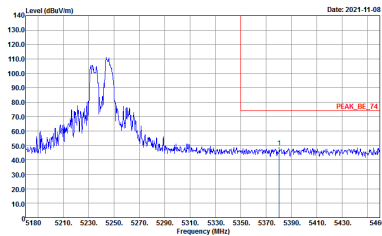
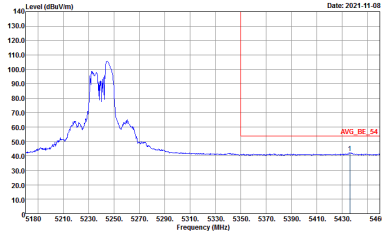
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH44 5220MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

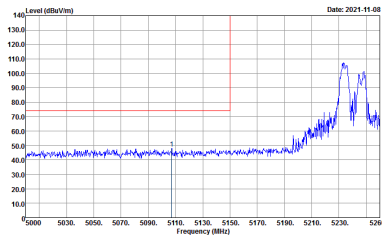
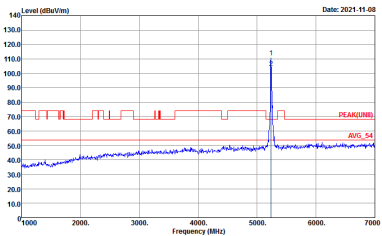
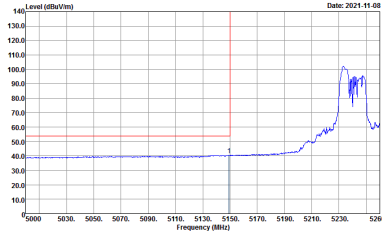


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH44 5220MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PFAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.300KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH48 5240MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

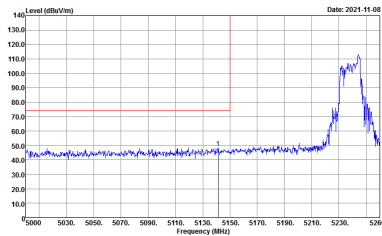
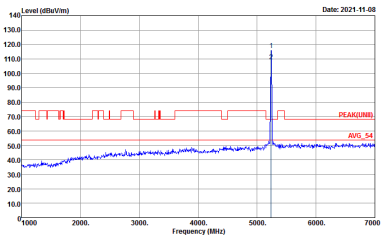
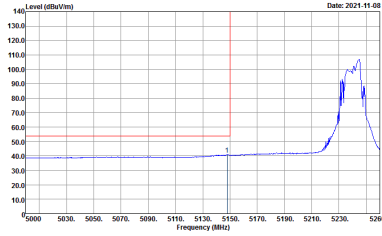


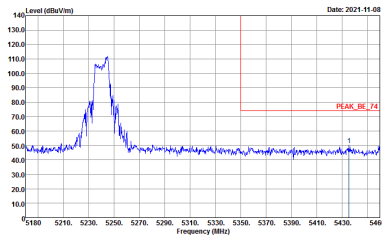
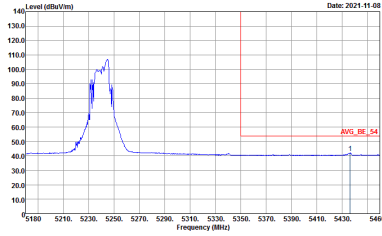
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH48 5240MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Date: 2021-11-08	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Date: 2021-11-08	Left blank

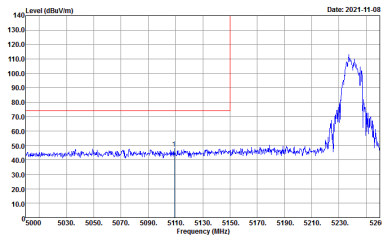
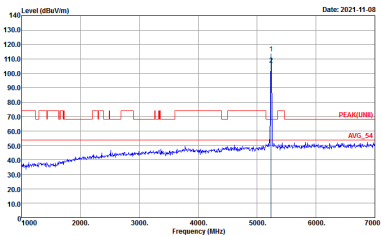
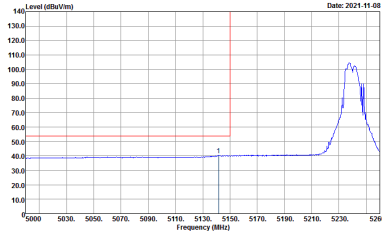
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH48 5240MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UMI) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank



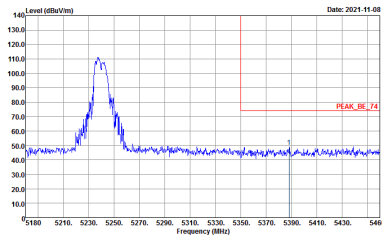
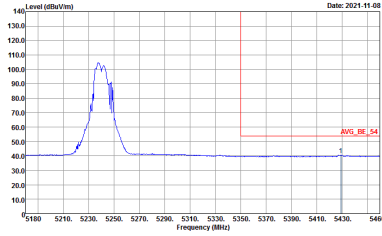
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial M CH48 5240MHz - R	
1+2+3+4	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH48 5240MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.300KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH48 5240MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

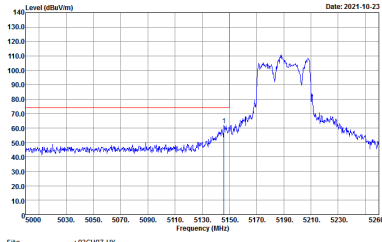
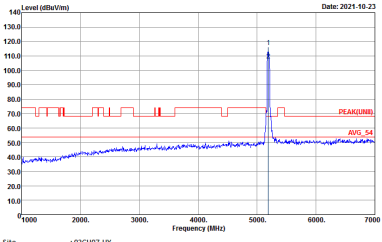
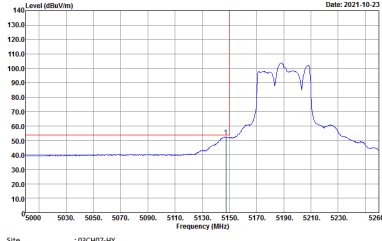
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH48 5240MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank



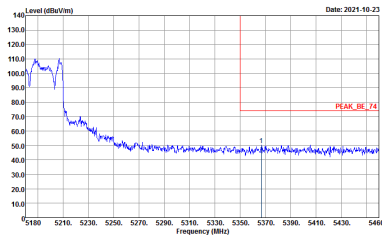
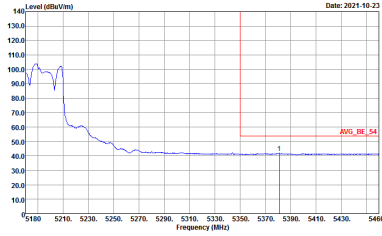
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial BE CH48 5240MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.300KHz SWT:Auto	Left blank

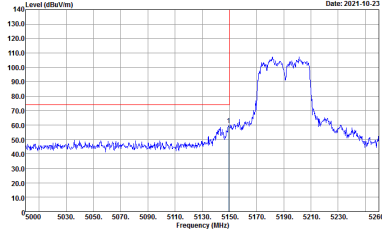
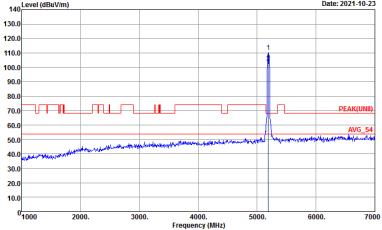
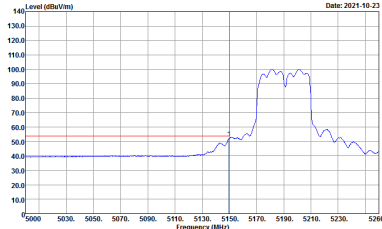


Band 1 5150~5250MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto	 Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWTA:Auto	Left blank

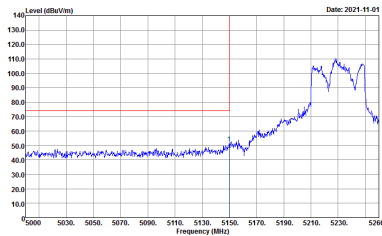
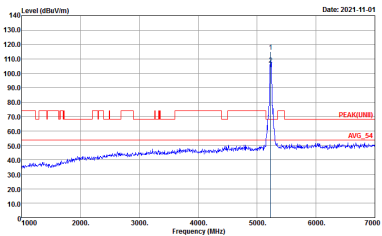
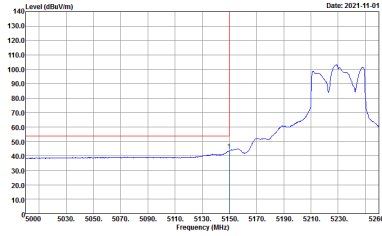


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

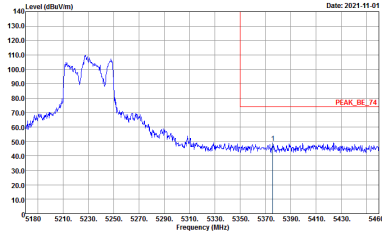
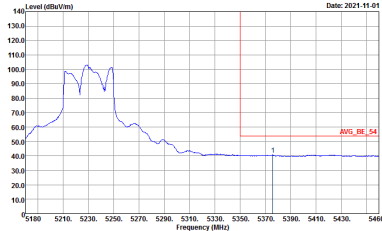
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

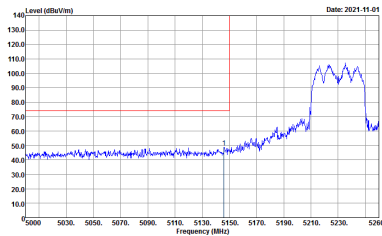
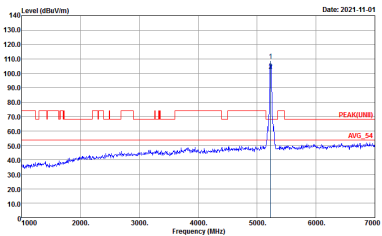
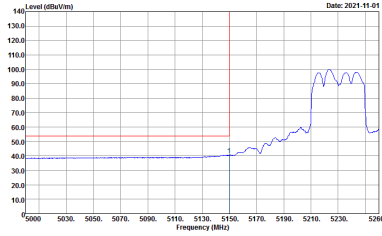


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

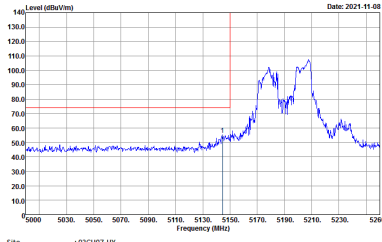
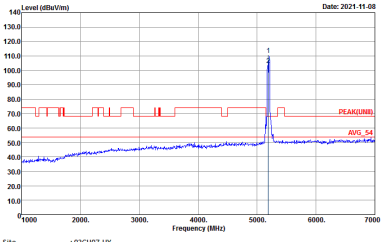
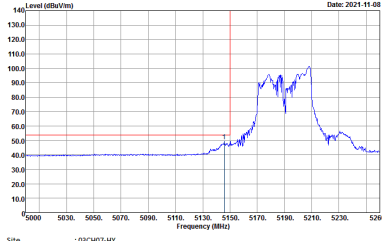
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



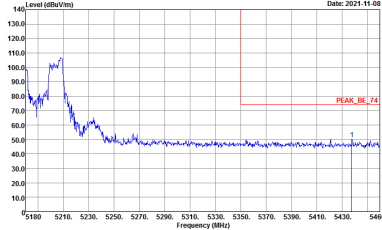
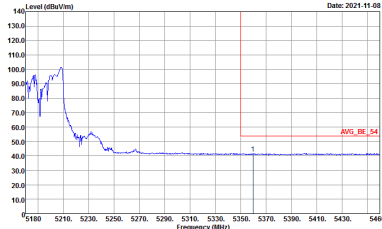
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

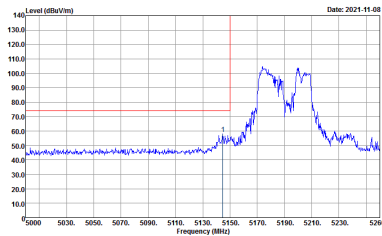
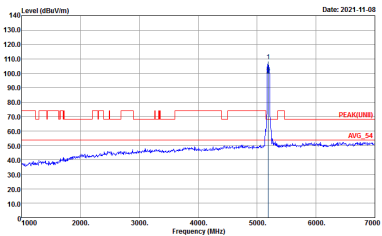
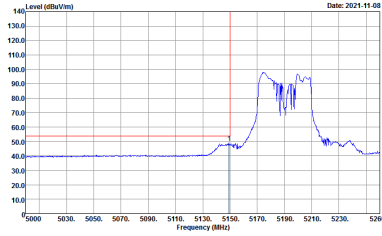


Band 1 5150~5250MHz
WIFI 802.11ax HE40 Partial RU (Band Edge @ 3m)

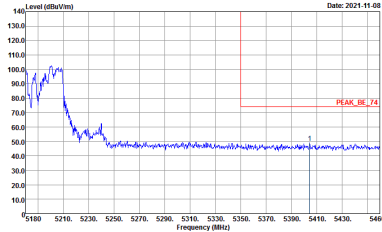
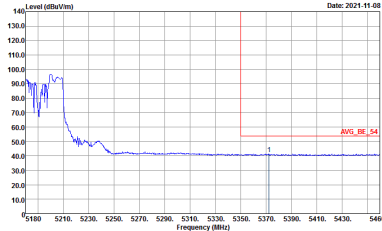
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial M CH38 5190MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(FUNF) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWTAuto	Left blank

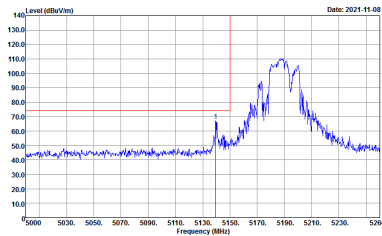
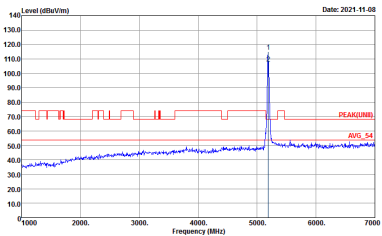
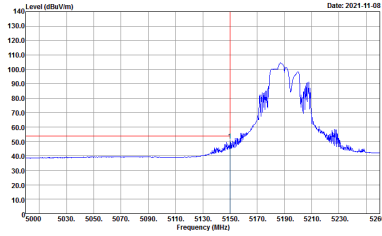


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial M CH38 5190MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_Z1 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_Z1 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

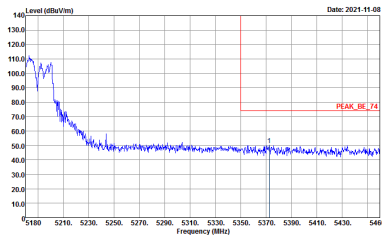
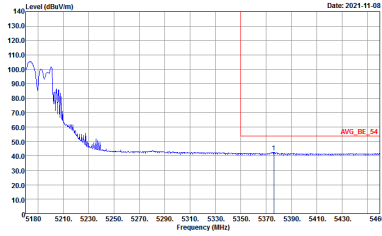
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial M CH38 5190MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

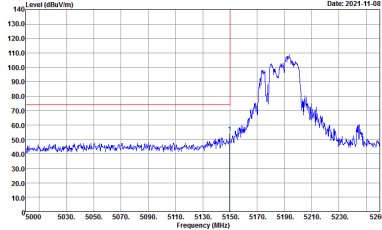
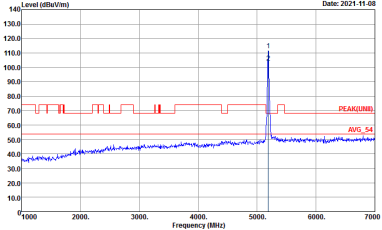
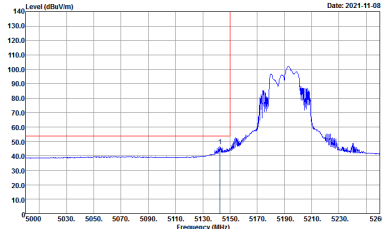


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial M CH38 5190MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

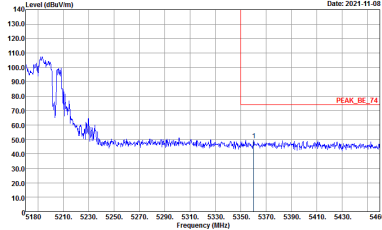
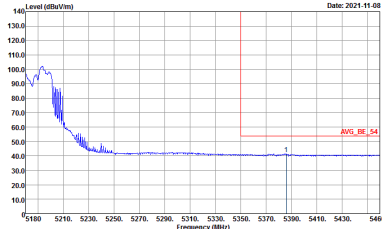
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial BE CH38 5190MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.300KHz SWT:Auto	Left blank

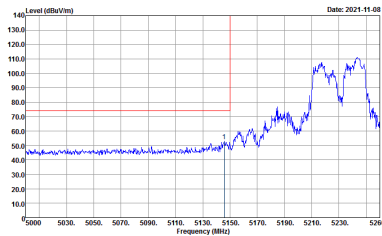
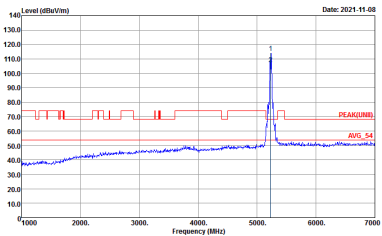
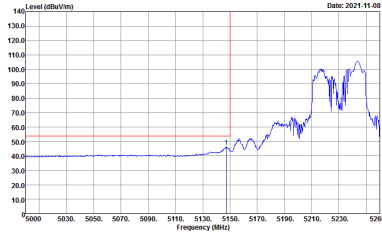


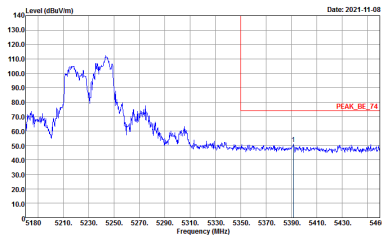
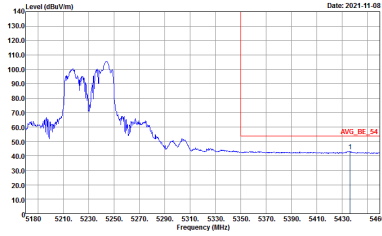
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial BE CH38 5190MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

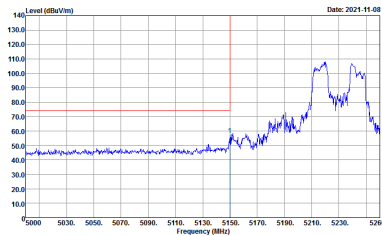
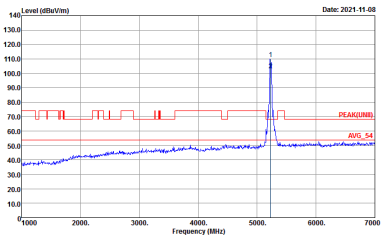
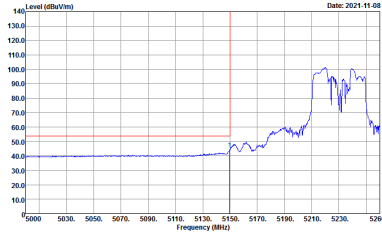
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial BE CH38 5190MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank



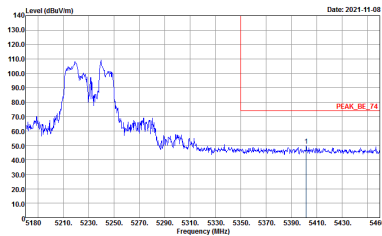
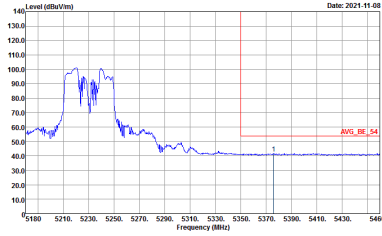
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial BE CH38 5190MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

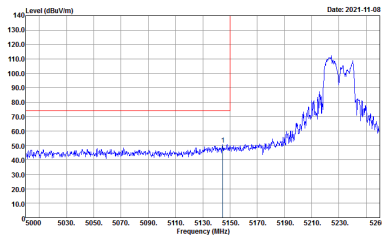
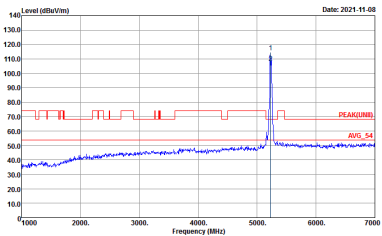
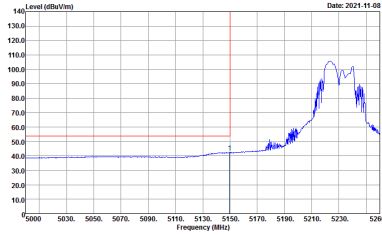
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial M CH46 5230MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

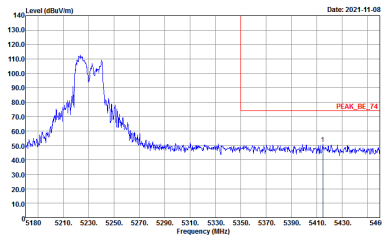
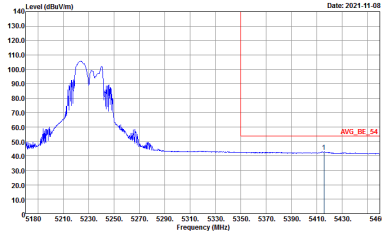
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial M CH46 5230MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto	Left blank

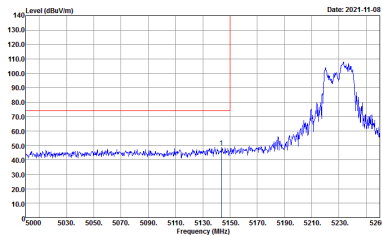
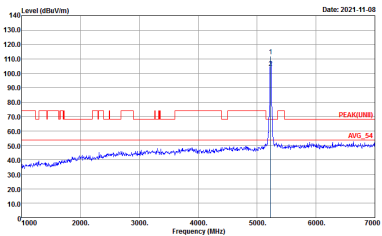
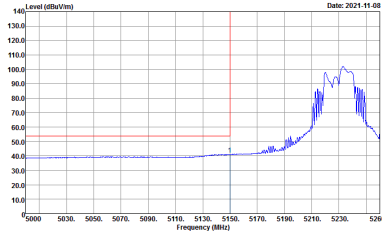
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial M CH46 5230MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUNF) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank



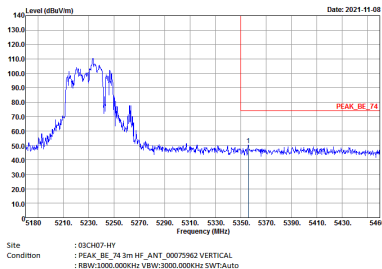
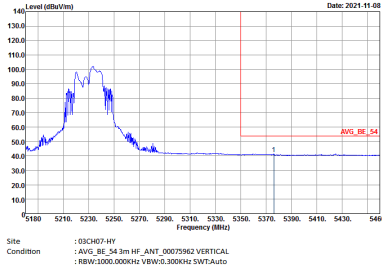
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial M CH46 5230MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial BE CH46 5230MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial BE CH46 5230MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial BE CH46 5230MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.300KHz SWT:Auto	Left blank



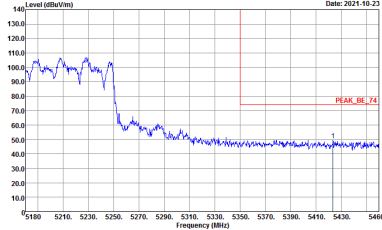
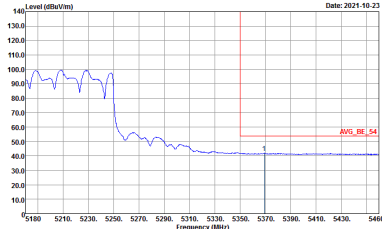
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial BE CH46 5230MHz - R	
1+2+3+4	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

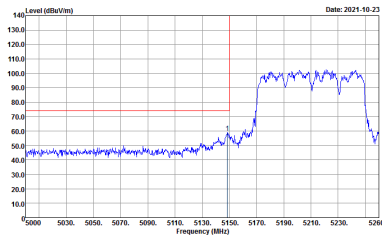
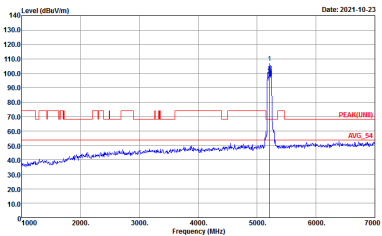
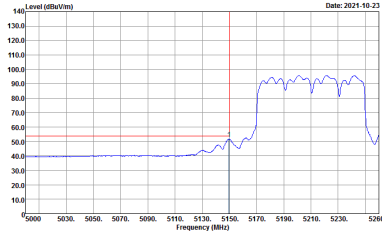


Band 1 5150~5250MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

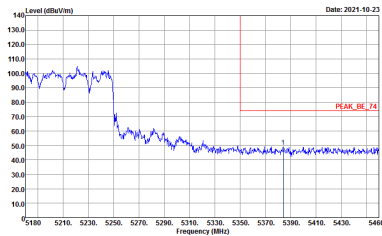
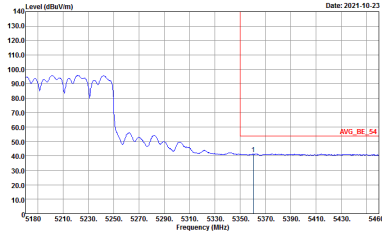
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto	Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWTA:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

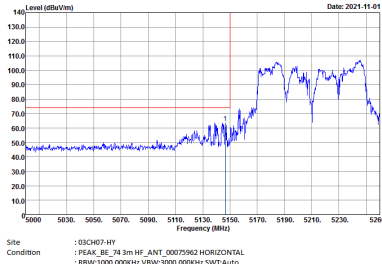
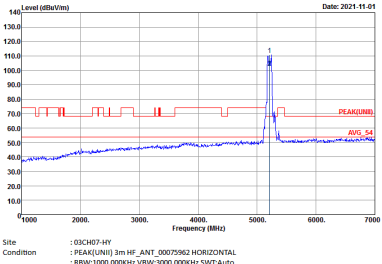
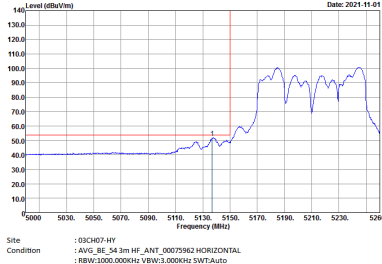
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUNF) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



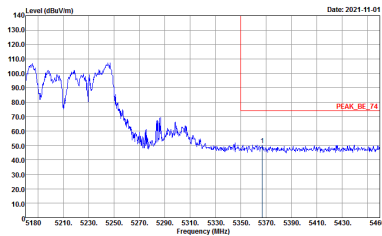
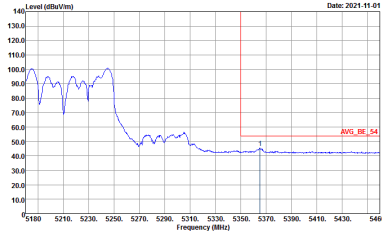
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

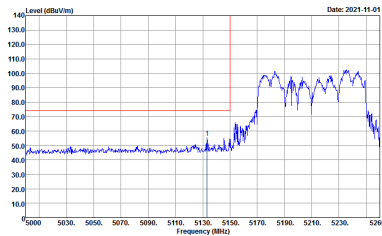
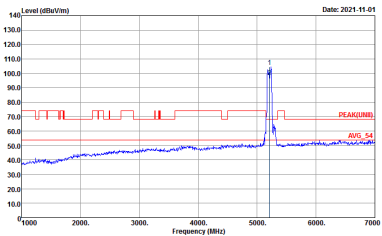
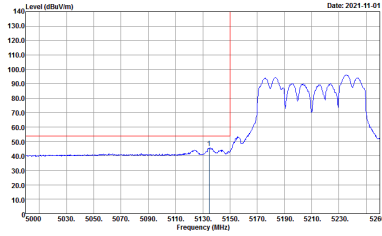


Band 1 5150~5250MHz
WIFI 802.11ax HE80 Partial RU (Band Edge @ 3m)

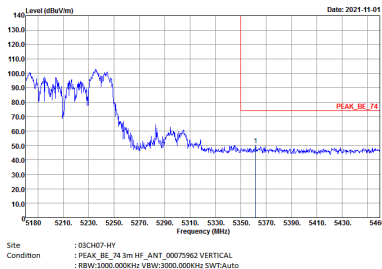
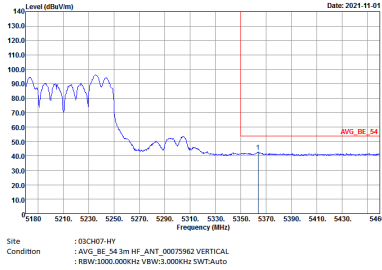
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial M CH42 5210MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site: 03CH07-HY Condition: PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWTAuto Date: 2021-11-01	 Site: 03CH07-HY Condition: PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWTAuto Date: 2021-11-01
Avg.	 Site: 03CH07-HY Condition: AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWTAuto Date: 2021-11-01	Left blank

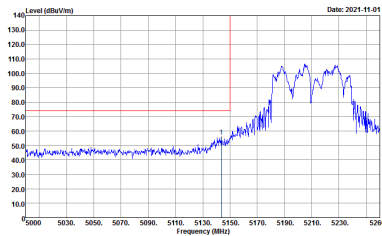
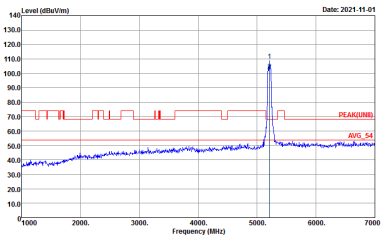


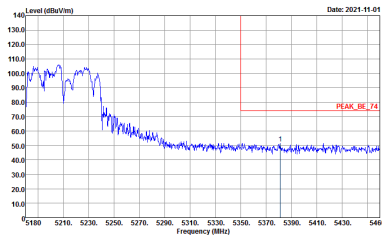
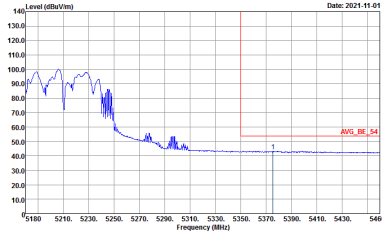
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial M CH42 5210MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_71 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

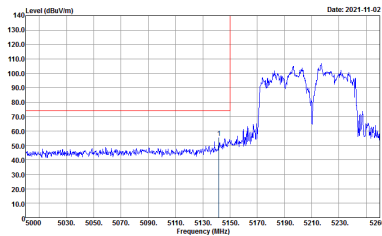
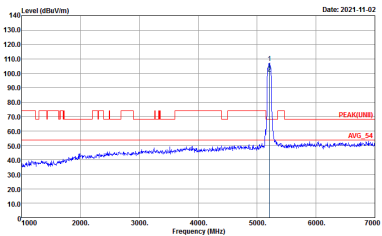
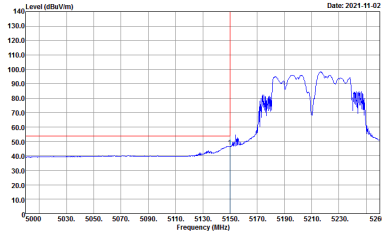
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial M CH42 5210MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

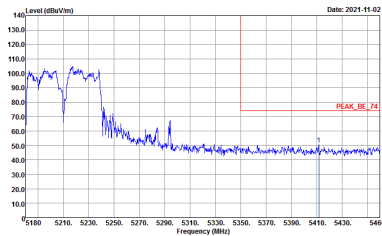
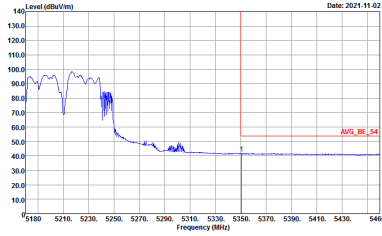


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial M CH42 5210MHz - R	
1+2+3+4	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

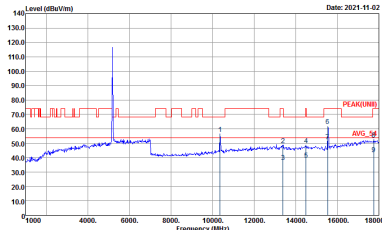
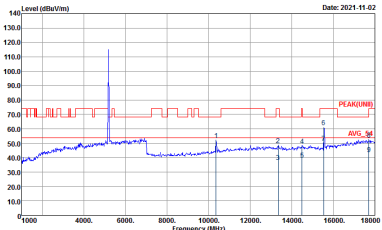
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial BE CH42 5210MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial BE CH42 5210MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

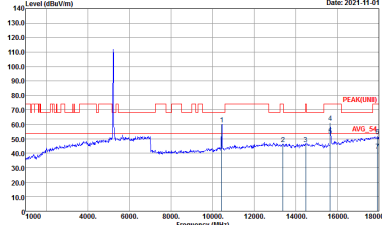
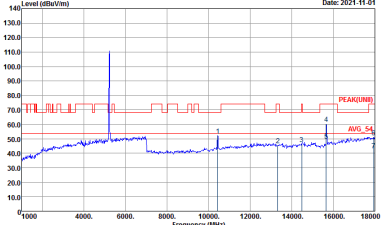
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial BE CH42 5210MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.300KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial BE CH42 5210MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PFAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL