



FCC RADIO TEST REPORT

FCC ID : S9GR850
Equipment : Wireless Access Point
Brand Name : RUCKUS
Model Name : R850
Applicant : Ruckus Wireless Inc.
350 W. Java Dr., Sunnyvale CA 94089 USA
Manufacturer : Ruckus Wireless Inc.
350 W. Java Dr., Sunnyvale CA 94089 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Dec. 13, 2019 and testing was started from Jan. 18, 2020 and completed on Mar. 13, 2020. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of government.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Ken Chen

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	5
2 Test Configuration of Equipment Under Test	6
2.1 Carrier Frequency and Channel	6
2.2 Test Mode.....	7
2.3 Connection Diagram of Test System.....	7
2.4 Support Unit used in test configuration and system	8
2.5 EUT Operation Test Setup	8
2.6 Measurement Results Explanation Example.....	8
3 Test Result	9
3.1 Maximum Conducted Output Power Measurement	9
3.2 Power Spectral Density Measurement	10
3.3 Unwanted Emissions Measurement	14
3.4 AC Conducted Emission Measurement.....	18
3.5 Antenna Requirements	20
4 List of Measuring Equipment.....	22
5 Uncertainty of Evaluation	23
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Conducted Spurious Emission	
Appendix D. Conducted Spurious Emission Plots	
Appendix E. Cabinet Radiated Spurious Emission	
Appendix F. Cabinet Radiated Spurious Emission Plots	
Appendix G. Duty Cycle Plots	
Appendix H. Setup Photographs	



History of this test report

Report No.	Version	Description	Issued Date
FR200130001D	01	Initial issue of report	Mar. 30, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.403(i)	26dB Bandwidth	-	See Note
-	2.1049	99% Occupied Bandwidth	-	See Note
3.1	15.407(a)	Maximum Conducted Output Power	Pass	-
3.2	15.407(a)	Power Spectral Density	Pass	-
3.3	15.407(b)	Unwanted Emissions	Pass	Under limit 0.11 dB at 5148.720 MHz
3.4	15.207	AC Conducted Emission	Pass	Under limit 1.45 dB at 12.596 MHz
-	15.407(c)	Automatically Discontinue Transmission	-	See Note
3.5	15.203 15.407(a)	Antenna Requirement	Pass	-

Note: This is a spot check data report and data performed in appendix of this report are chosen from the worst case of the original FCC ID (S9GR730) report.

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



1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WLAN: <Ant. 1>: Internal Omni PCB Antenna <Ant. 2>: Internal Omni PCB Antenna <Ant. 3>: Internal Omni PCB Antenna <Ant. 4>: Internal Omni PCB Antenna <Ant. 5>: Internal Omni PCB Antenna <Ant. 6>: Internal Omni PCB Antenna <Ant. 7>: Internal Omni PCB Antenna <Ant. 8>: Internal Omni PCB Antenna Bluetooth: Internal Omni PCB Antenna Zigbee: Internal Omni PCB Antenna

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International (USA) Inc.		
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300		
Test Site No.	Sporton Site No.		
	TH01-CA	CO01-CA	03CH01-CA

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

1.4 Applicable Standards

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

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

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X Plane for 4x4 Mode and Middle Unmodulated Mode; Z Plane for 8x8 Mode and Band-edge Unmodulated Mode) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		

Note:

1. The above Frequency and Channel in "*" was 802.11ax HE40.
2. The above Frequency and Channel in "[#]" was 802.11ax HE80.

2.2 Test Mode

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

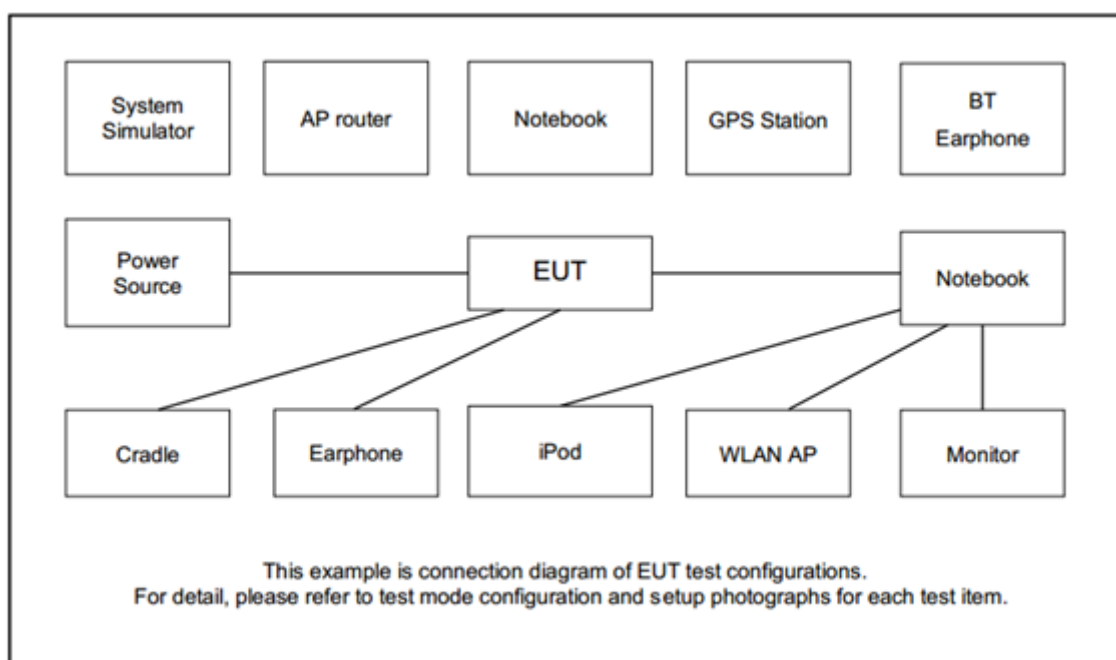
Modulation	Data Rate
802.11a	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) TX + WLAN (5GHz) TX + Charging from PoE + LAN Link

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

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	E6430	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Notebook	DELL	P79G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	USB Flash drive	R&S	N/A	N/A	N/A	N/A
4.	PoE Adapter	Ruckus Wireless Inc.	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QSPR Version 5.0-00188” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 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.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

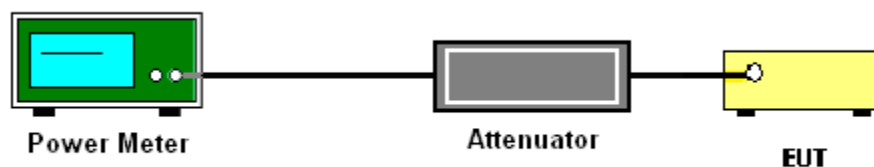
3.1.3 Test Procedures

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

Method PM-G (Measurement using an 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.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Power Spectral Density Measurement

3.2.1 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.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

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

Section F) Maximum power spectral density.

Method SA-3

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

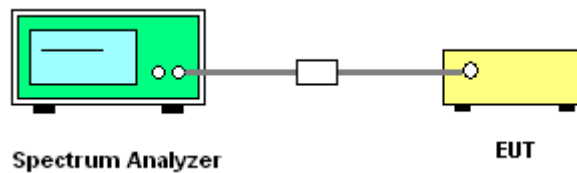
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time $\leq$ (number of points in sweep) $\times$ T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the 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 6 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, output 4, output 5, and output 6 to obtain the value for the first frequency bin of the summed spectrum.

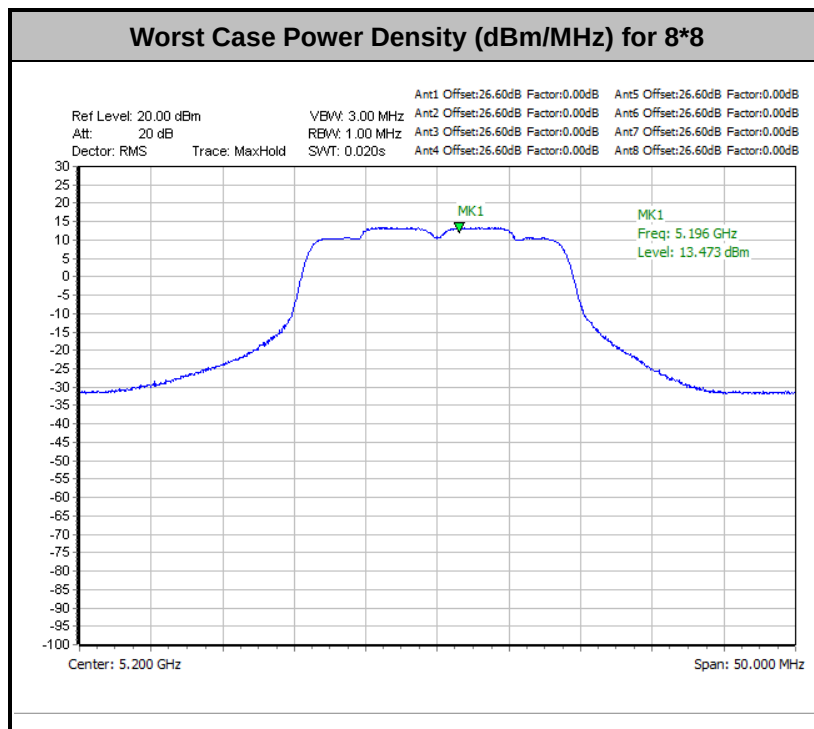
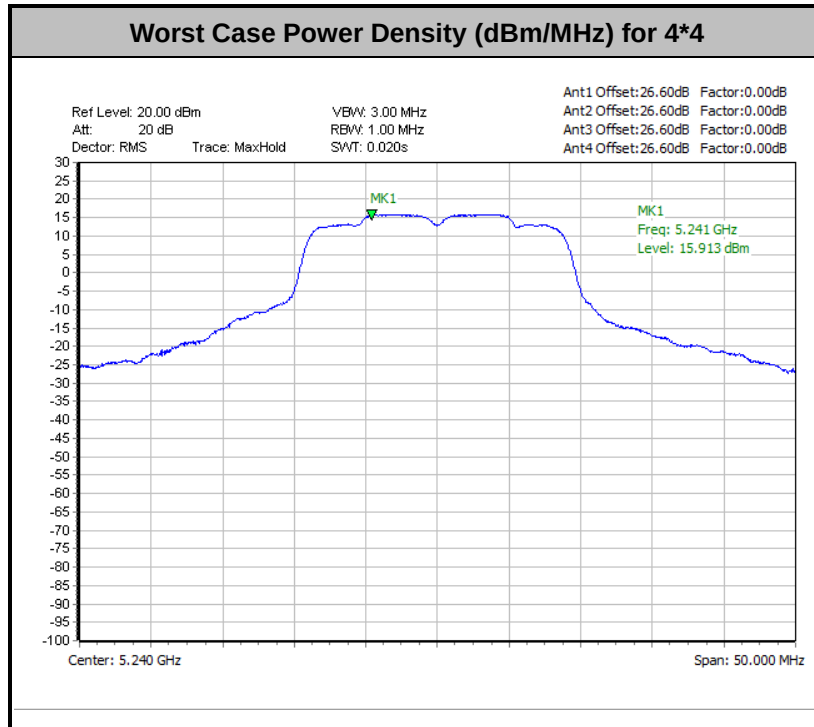
3.2.4 Test Setup



3.2.5 Test Result of Power Spectral Density

Please refer to Appendix A.

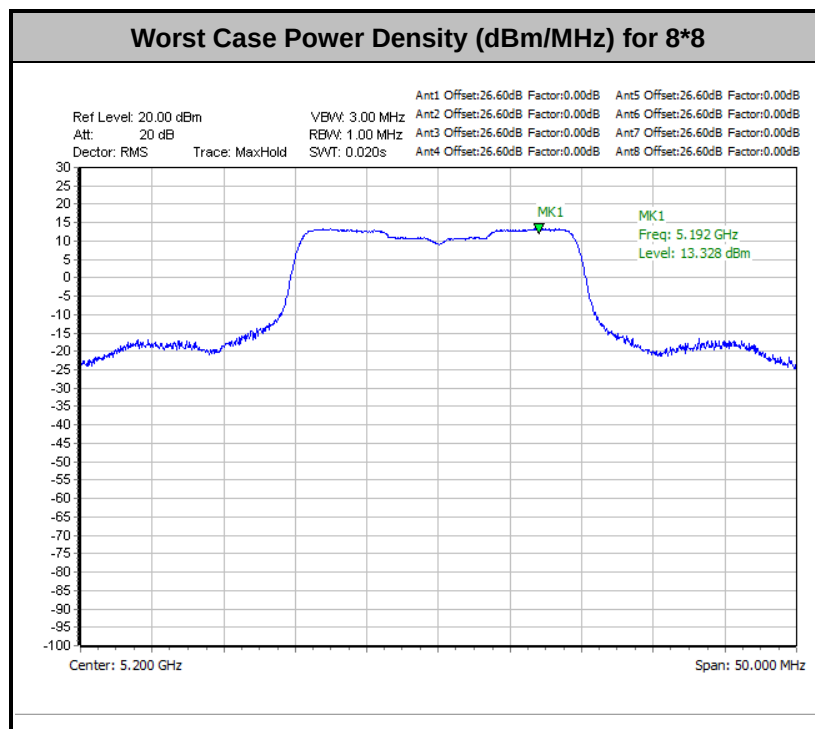
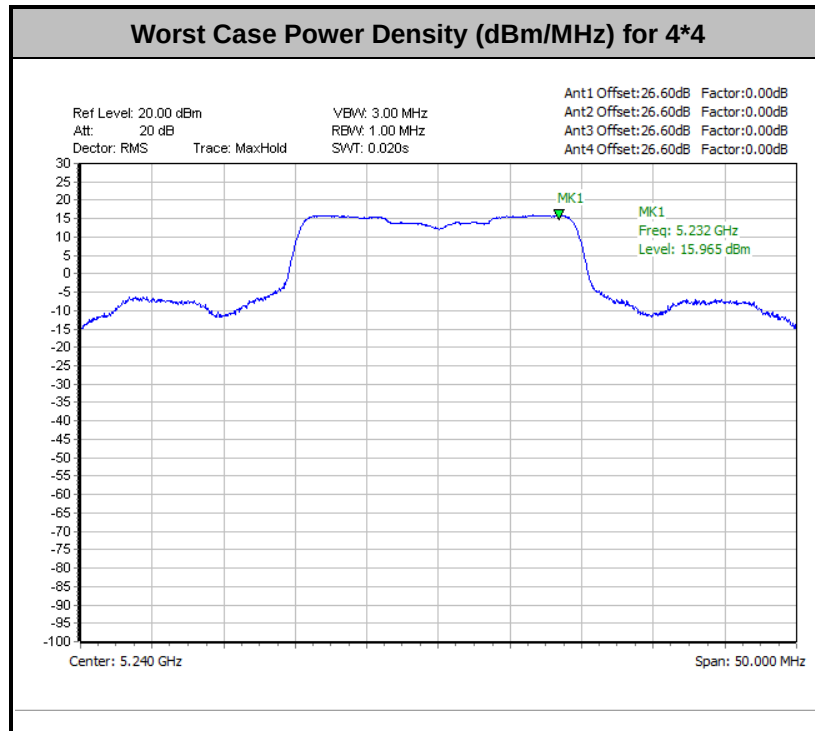
<Band-edge Unmodulated>



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



<Middle Unmodulated>



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

3.3 Unwanted Emissions Measurement

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

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

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

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

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

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

- (3) KDB789033 D02 v02r01 G)2)c)
 - (i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.
 - (ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.3.2 Measuring Instruments

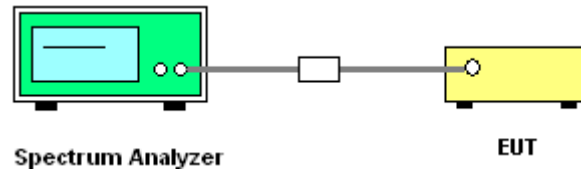
See list of measuring equipment of this test report.

3.3.3 Test Procedures

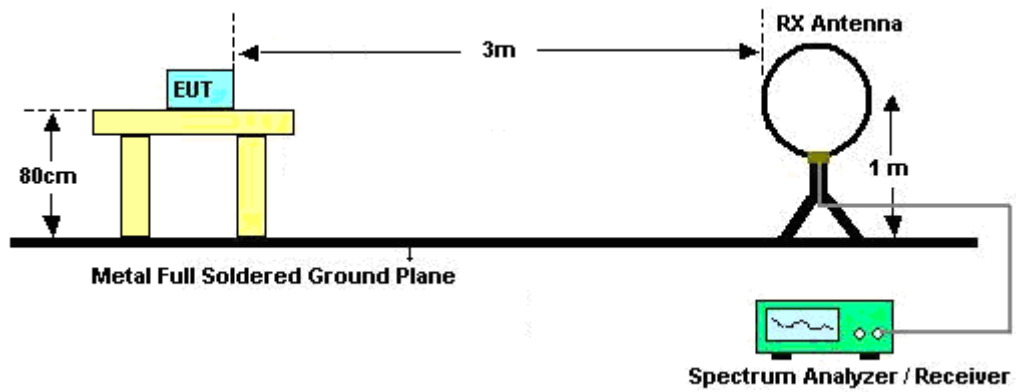
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.3.4 Test Setup

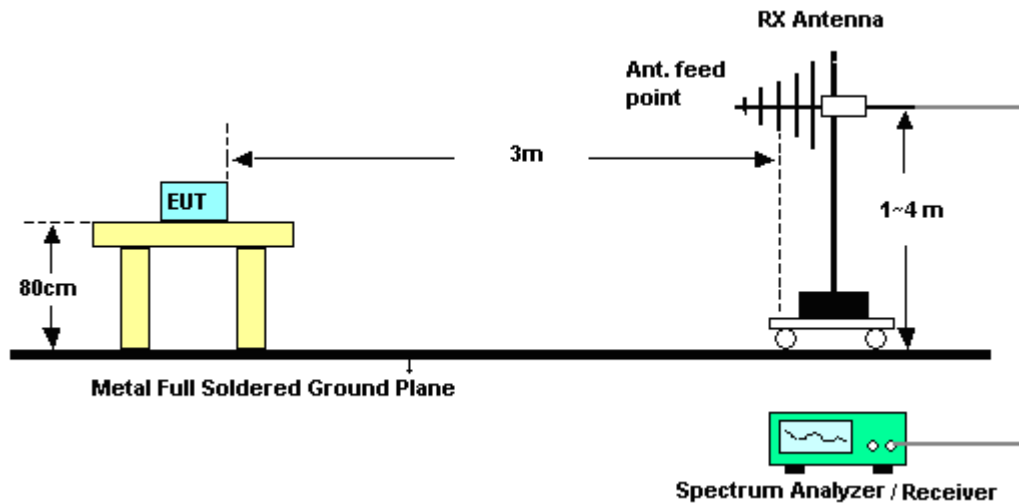
For Conducted Measurement Setup:



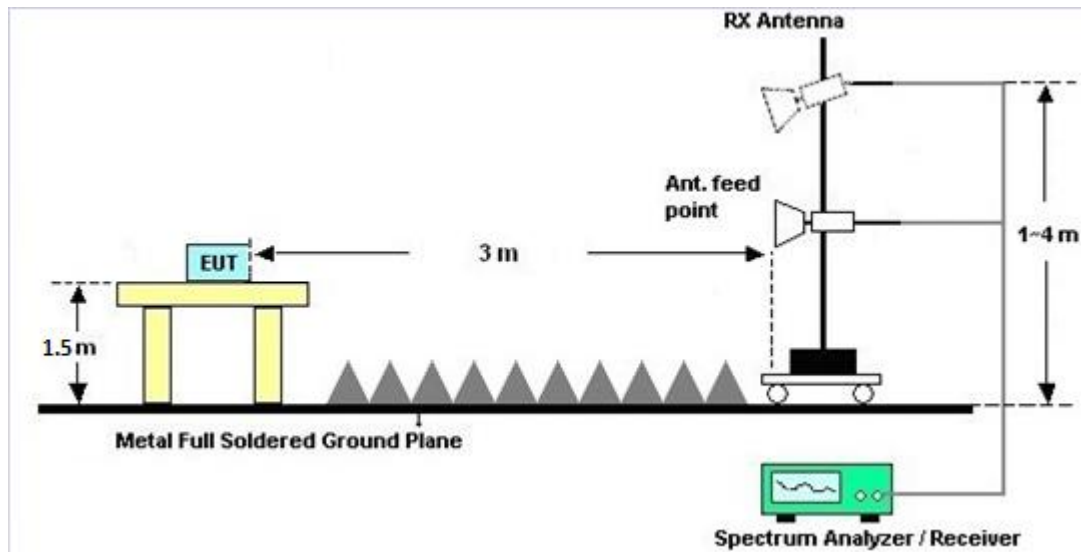
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.3.6 Test Result of Conduced Spurious at Band Edges in the Restricted Band

Please refer to Appendix C and D.

3.3.7 Test Result of Conduced Spurious Emission in the Restricted Band

Please refer to Appendix C and D.

3.3.8 Test Result of Cabinet Radiated Spurious at Band Edges

Please refer to Appendix E and F.

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

Please refer to Appendix E and F.

3.3.10 Duty Cycle

Please refer to Appendix G.

3.4 AC Conducted Emission Measurement

3.4.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

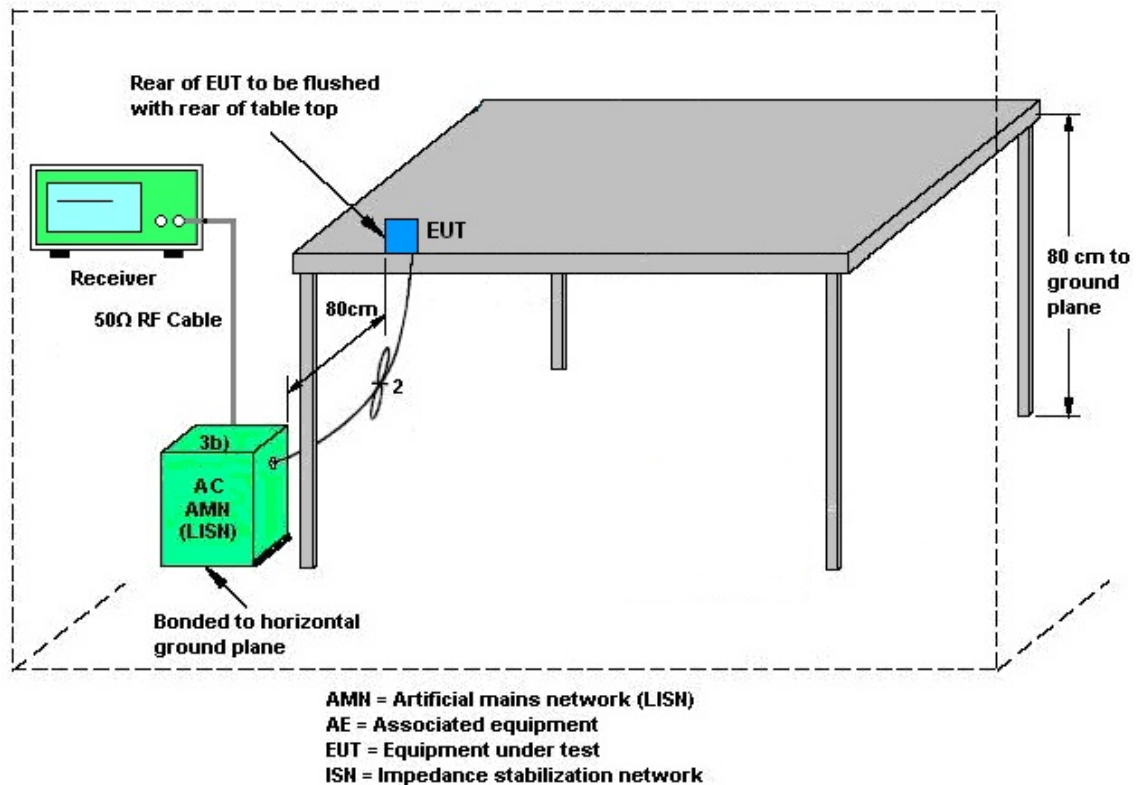
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.5 Antenna Requirements

3.5.1 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.

3.5.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.5.3 Antenna Gain

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.

<For 4*4>

Antenna polarization	Horizontal			DG	DG	Power	PSD
				for	for	Limit	Limit
	Ant. 3			Power	PSD	Reduction	Reduction
	(dBi)			(dBi)	(dBi)	(dB)	(dB)
Band I	0.00			0.00	0.00	0.00	0.00

Antenna polarization	Vertical			DG	DG	Power	PSD
				for	for	Limit	Limit
	Ant. 1	Ant. 2	Ant. 4	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	1.50	1.50	1.50	6.27	6.27	0.27	0.27

Note: Ant. 3 and Ant. 1 & 2 & 4 are cross-polarization antenna.

<For 8*8>

Antenna polarization	Horizontal		DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 3	Ant 7	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	0.00	0.00	3.01	3.01	0.00	0.00

Antenna polarization	Vertical						DG	DG	Power	PSD
							for	for	Limit	Limit
	Ant 1	Ant 2	Ant 4	Ant 5	Ant 6	Ant 8	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	1.50	1.50	1.50	1.50	1.50	1.50	9.28	9.28	3.28	3.28

Note: Ant. 3 & 7 and Ant. 1 & 2 & 4 & 5 & 6 & 8 are cross-polarization antenna.

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	45142595	N/A	Aug. 07, 2019	Jan. 29, 2020~ Mar. 03, 2020	Aug. 06, 2020	Conducted (TH01-CA)
Power Sensor	DARE	RPR3006W	RPR6W-1901 027	50MHz~18GHz	Jun. 27, 2019	Jan. 29, 2020~ Mar. 03, 2020	Jun. 26, 2020	Conducted (TH01-CA))
Spectrum Analyzer	Rohde & Schwarz	FSV 40	100895	10Hz~40GHz	Aug. 29, 2019	Jan. 29, 2020~ Mar. 03, 2020	Aug. 28, 2020	Conducted (TH01-CA)
Switch Box & RF Cable	EM	EMSW18	SW1070902	N/A	N/A	Jan. 29, 2020~ Mar. 03, 2020	N/A	Conducted (TH01-CA)
Preamplifier	Keysight	83017A	MY53270321	1GHz~26.5GHz	Sep. 18, 2019	Jan. 18, 2020 ~ Mar. 12, 2020	Sep. 17, 2020	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	01894	1GHz~18GHz	Jul. 22, 2019	Jan. 18, 2020 ~ Mar. 12, 2020	Jul. 21, 2020	Radiation (03CH01-CA)
EMI Test Receiver	Rohde & Schwarz	ESU26	100049	20Hz~26.5GHz	Jul. 31, 2019	Jan. 18, 2020 ~ Mar. 12, 2020	Jul. 30, 2020	Radiation (03CH01-CA))
Hygrometer	TESTO	608-H1	45142559	N/A	Aug. 06, 2019	Jan. 18, 2020 ~ Mar. 12, 2020	Aug. 05, 2020	Radiation (03CH01-CA)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jan. 18, 2020 ~ Mar. 12, 2020	N/A	Radiation (03CH01-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 18, 2020 ~ Mar. 12, 2020	N/A	Radiation (03CH01-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 18, 2020 ~ Mar. 12, 2020	N/A	Radiation (03CH01-CA)
Software	Audix	E3	N/A	N/A	N/A	Jan. 18, 2020 ~ Mar. 12, 2020	N/A	Radiation (03CH01-CA)
LISN	TESEQ	NNB51	47407	N/A	May 26, 2019	Mar. 13, 2020	Jun. 25, 2020	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	9KHz~7GHz	Jun. 27, 2019	Mar. 13, 2020	Jun. 26, 2020	Conduction (CO01-CA)
Pulse limiter with 10dB attenuation	R&S	VTSD 9561-F N	9561-F- N00412	N/A	Jun. 11, 2019	Mar. 13, 2020	Jun. 10, 2020	Conduction (CO01-CA)
Test Software	EMC32	N/A	N/A	N/A	N/A	Mar. 13, 2020	N/A	Conduction (CO01-CA)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	1.7
---	-----

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4
---	-----

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3
---	-----

Appendix A. Test Result of Conducted Test Items

Test Engineer	Howard Lin	Temperature	21~25	°C
Test Date	2020/1/29~2020/03/03	Relative Humidity	51~54	%

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4												
Mod.	Data Rate	N _{TX}	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	19.54	19.54	19.78	20.01	25.74	29.73	6.27	Pass
11a	6Mbps	4	40	5200	21.96	21.66	21.44	22.24	27.86	29.73	6.27	Pass
11a	6Mbps	4	48	5240	22.51	21.68	21.69	22.15	28.04	29.73	6.27	Pass
HE20	MCS0	4	36	5180	20.01	20.04	20.14	20.46	26.19	29.73	6.27	Pass
HE20	MCS0	4	40	5200	21.96	21.57	21.71	22.07	27.85	29.73	6.27	Pass
HE20	MCS0	4	48	5240	22.43	21.98	22.16	22.55	28.31	29.73	6.27	Pass
HE40	MCS0	4	38	5190	16.85	16.88	16.90	17.10	22.95	29.73	6.27	Pass
HE40	MCS0	4	46	5230	23.03	22.50	22.54	22.69	28.72	29.73	6.27	Pass
HE80	MCS0	4	42	5210	17.49	17.43	17.19	17.47	23.42	29.73	6.27	Pass

TEST RESULTS DATA
Average Power Table

IC Band I MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)									IC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 5	Ant 6	Ant 7	Ant 8	SUM				
11a	6Mbps	8	36	5180	15.89	16.17	16.51	16.30	15.78	16.82	16.66	16.58	25.38	26.72	9.28		Pass
11a	6Mbps	8	40	5200	16.26	16.16	16.22	16.54	16.10	16.86	16.69	16.62	25.47	26.72	9.28		Pass
11a	6Mbps	8	48	5240	15.65	15.93	15.60	15.91	15.25	16.34	15.96	16.10	24.88	26.72	9.28		Pass
HE20	MCS0	8	36	5180	16.56	16.82	17.06	17.00	16.07	17.28	17.33	17.29	25.98	26.72	9.28		Pass
HE20	MCS0	8	40	5200	16.86	16.90	16.96	17.03	16.56	17.39	17.44	17.44	26.11	26.72	9.28		Pass
HE20	MCS0	8	48	5240	17.34	17.47	17.29	17.81	16.66	17.81	17.71	17.85	26.54	26.72	9.28		Pass
HE40	MCS0	8	38	5190	16.85	16.93	16.99	17.09	16.97	17.32	17.39	17.47	26.16	26.72	9.28		Pass
HE40	MCS0	8	46	5230	17.03	17.11	16.97	17.06	17.02	17.30	17.40	17.47	26.20	26.72	9.28		Pass
HE80	MCS0	8	42	5210	16.81	17.05	16.86	17.08	17.04	17.32	17.43	17.34	26.15	26.72	9.28		Pass

<Band-edge Unmodulated>

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	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	16.80	16.58	16.82	17.04	22.83	29.73	6.27	Pass
HE20	MCS0	4	40	5200	17.90	17.84	17.96	18.28	24.02	29.73	6.27	Pass
HE20	MCS0	4	48	5240	18.26	18.14	18.33	18.44	24.31	29.73	6.27	Pass
HE40	MCS0	4	38	5190	13.38	13.46	13.27	13.52	19.43	29.73	6.27	Pass
HE40	MCS0	4	46	5230	19.26	19.02	18.76	19.17	25.08	29.73	6.27	Pass
HE80	MCS0	4	42	5210	13.44	13.22	12.98	13.39	19.28	29.73	6.27	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4								
Mod.	Data Rate	N _{TX}	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	
HE20	MCS0	4	36	5180	14.29	16.73	6.27	Pass
HE20	MCS0	4	40	5200	15.49	16.73	6.27	Pass
HE20	MCS0	4	48	5240	15.91	16.73	6.27	Pass
HE40	MCS0	4	38	5190	7.97	16.73	6.27	Pass
HE40	MCS0	4	46	5230	13.85	16.73	6.27	Pass
HE80	MCS0	4	42	5210	4.22	16.73	6.27	Pass

TEST RESULTS DATA
Average Power Table

FCC Band I																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)									FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 5	Ant 6	Ant 7	Ant 8	SUM				
HE20	MCS0	8	36	5180	13.19	13.50	13.71	13.84	12.52	13.77	13.72	13.97	22.58	26.72	9.28		Pass
HE20	MCS0	8	40	5200	13.48	13.71	13.16	13.69	13.09	13.69	13.75	14.04	22.62	26.72	9.28		Pass
HE20	MCS0	8	48	5240	13.24	13.56	13.33	13.43	12.69	14.27	13.51	13.95	22.55	26.72	9.28		Pass
HE40	MCS0	8	38	5190	13.13	13.18	12.95	13.42	13.04	13.71	13.28	13.76	22.35	26.72	9.28		Pass
HE40	MCS0	8	46	5230	12.93	13.25	13.06	13.48	13.44	13.66	13.12	13.70	22.37	26.72	9.28		Pass
HE80	MCS0	8	42	5210	12.39	12.17	11.52	12.21	12.49	12.32	12.21	12.35	21.25	26.72	9.28		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)								Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail	
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 5	Ant 6	Ant 7	Ant 8					SUM
HE20	MCS0	8	36	5180									13.24	13.72	9.28		Pass
HE20	MCS0	8	40	5200									13.47	13.72	9.28		Pass
HE20	MCS0	8	48	5240									13.41	13.72	9.28		Pass
HE40	MCS0	8	38	5190									10.60	13.72	9.28		Pass
HE40	MCS0	8	46	5230									10.37	13.72	9.28		Pass
HE80	MCS0	8	42	5210									5.88	13.72	9.28		Pass

<Middle Unmodulated>

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			
HE20	MCS0	4	36	5180	14.16	13.92	13.86	13.83	19.97	29.73	6.27	Pass
HE20	MCS0	4	40	5200	18.80	18.60	18.78	18.92	24.80	29.73	6.27	Pass
HE20	MCS0	4	48	5240	19.17	18.79	19.17	19.34	25.14	29.73	6.27	Pass
HE40	MCS0	4	38	5190	13.21	13.20	13.18	13.25	19.23	29.73	6.27	Pass
HE40	MCS0	4	46	5230	19.15	18.91	18.64	18.97	24.94	29.73	6.27	Pass
HE80	MCS0	4	42	5210	12.27	12.17	11.92	12.28	18.18	29.73	6.27	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4								
Mod.	Data Rate	N _{TX}	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	
HE20	MCS0	4	36	5180	10.58	16.73	6.27	Pass
HE20	MCS0	4	40	5200	15.50	16.73	6.27	Pass
HE20	MCS0	4	48	5240	15.97	16.73	6.27	Pass
HE40	MCS0	4	38	5190	8.03	16.73	6.27	Pass
HE40	MCS0	4	46	5230	13.88	16.73	6.27	Pass
HE80	MCS0	4	42	5210	4.42	16.73	6.27	Pass

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)									FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 5	Ant 6	Ant 7	Ant 8	SUM				
HE20	MCS0	8	36	5180	12.68	12.26	11.96	12.27	14.39	12.32	12.24	13.02	21.74	26.72	9.28		Pass
HE20	MCS0	8	40	5200	14.85	14.62	14.20	14.76	14.40	15.43	14.49	15.01	23.77	26.72	9.28		Pass
HE20	MCS0	8	48	5240	14.51	14.27	14.04	14.47	13.79	14.81	13.71	14.61	23.32	26.72	9.28		Pass
HE40	MCS0	8	38	5190	11.24	11.14	10.69	11.18	11.12	11.08	11.05	11.49	20.16	26.72	9.28		Pass
HE40	MCS0	8	46	5230	13.02	13.06	13.01	13.01	13.16	13.52	12.96	13.45	22.18	26.72	9.28		Pass
HE80	MCS0	8	42	5210	10.05	9.78	9.99	10.53	9.95	10.99	10.71	10.74	19.39	26.72	9.28		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)								Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail	
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 5	Ant 6	Ant 7	Ant 8					SUM
HE20	MCS0	8	36	5180									11.89	13.72	9.28		Pass
HE20	MCS0	8	44	5220									13.33	13.72	9.28		Pass
HE20	MCS0	8	48	5240									13.26	13.72	9.28		Pass
HE40	MCS0	8	38	5190									9.02	13.72	9.28		Pass
HE40	MCS0	8	46	5230									10.37	13.72	9.28		Pass
HE80	MCS0	8	42	5210									5.72	13.72	9.28		Pass



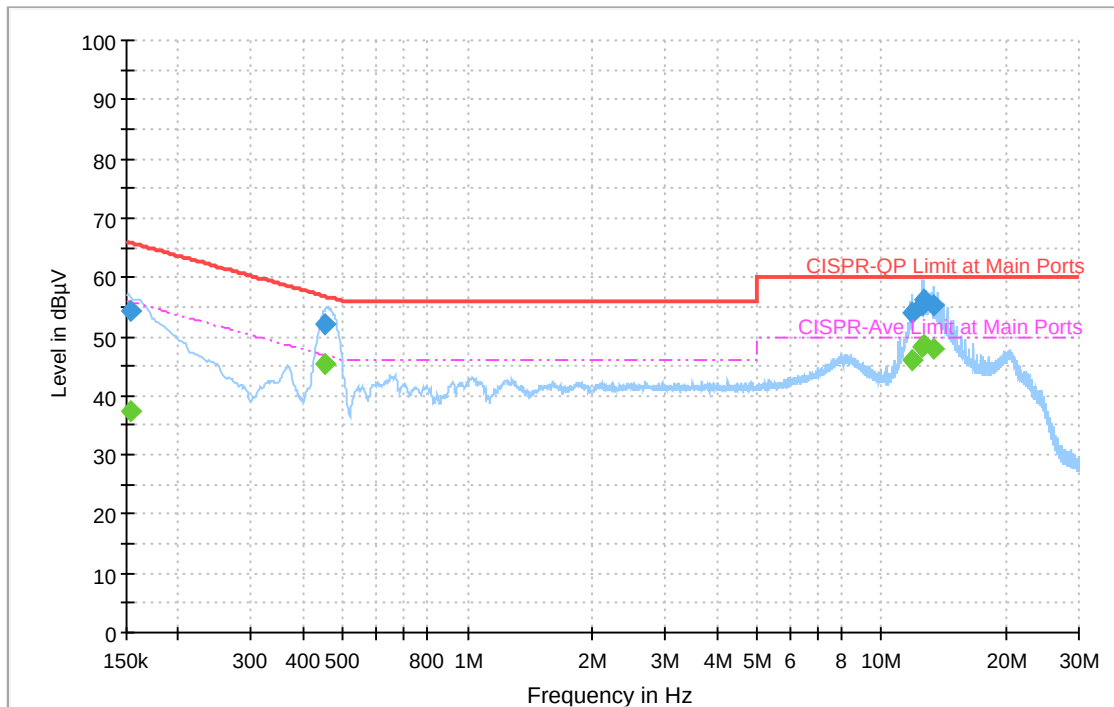
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Leo Liu	Temperature :	19~20℃
		Relative Humidity :	30~35%

EUT Information

Site: CO01-CA
Project: 200130001
Power: 120Vac/60Hz
Mode: 1
2.4GWiFil+5G WiFi TX

Full Spectrum



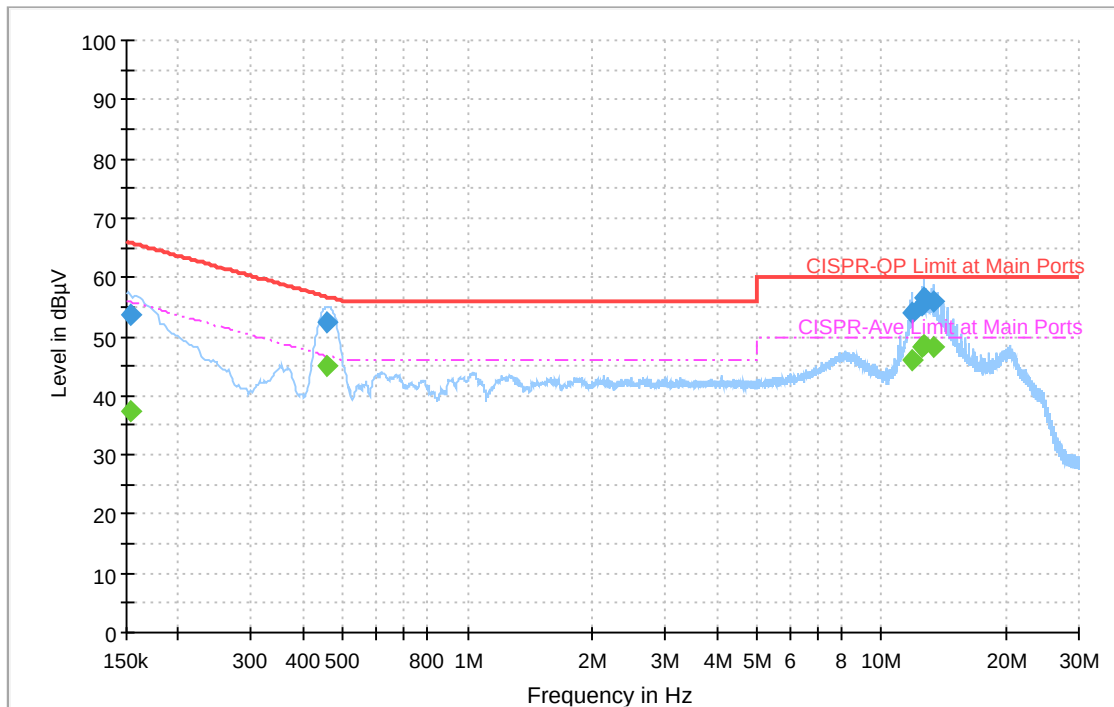
Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.153578	54.17	---	65.80	11.63	L1	OFF	20.3
0.153578	---	37.28	55.80	18.52	L1	OFF	20.3
0.453750	52.16	---	56.81	4.65	L1	OFF	20.4
0.453750	---	45.25	46.81	1.56	L1	OFF	20.4
11.820480	54.12	---	60.00	5.88	L1	OFF	20.5
11.820480	---	46.07	50.00	3.93	L1	OFF	20.5
12.464160	55.39	---	60.00	4.61	L1	OFF	20.6
12.464160	---	48.32	50.00	1.68	L1	OFF	20.6
12.590250	56.21	---	60.00	3.79	L1	OFF	20.6
12.590250	---	48.49	50.00	1.51	L1	OFF	20.6
13.364250	55.36	---	60.00	4.64	L1	OFF	20.6
13.364250	---	47.94	50.00	2.06	L1	OFF	20.6

EUT Information

Site: CO01-CA
Project: 200130001
Power: 120Vac/60Hz
Mode: 1
2.4GWiFi+5G WiFi TX

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.153308	53.62	---	65.82	12.20	N	OFF	20.3
0.153308	---	37.32	55.82	18.50	N	OFF	20.3
0.456000	52.28	---	56.77	4.49	N	OFF	20.4
0.456000	---	45.12	46.77	1.65	N	OFF	20.4
11.824980	54.12	---	60.00	5.88	N	OFF	20.6
11.824980	---	46.10	50.00	3.90	N	OFF	20.6
12.468750	55.33	---	60.00	4.67	N	OFF	20.6
12.468750	---	48.32	50.00	1.68	N	OFF	20.6
12.596280	56.54	---	60.00	3.46	N	OFF	20.6
12.596280	---	48.55	50.00	1.45	N	OFF	20.6
13.370370	55.77	---	60.00	4.23	N	OFF	20.6
13.370370	---	48.18	50.00	1.82	N	OFF	20.6



Appendix C. Conducted Spurious Emission

Test Engineer :	Jordan Huang	Temperature :	23~25°C
		Relative Humidity :	52~58%

<Band-edge Unmodulated>

Band 1 - 5150~5250MHz

WIFI 802.11ax HE20 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5140.14	-36.42	-15.22	-21.2	-57.41	9.28	11.71	0	0	P
		5088.14	-48.94	-7.74	-41.2	-69.95	9.28	11.73	0	0	A
	*	5180	22.87	-	-	1.9	9.28	11.69	0	0	P
	*	5180	12.5	-	-	-8.47	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5150	-21.67	-0.47	-21.2	-42.66	9.28	11.71	0	0	P
		5150	-48.67	-7.47	-41.2	-69.66	9.28	11.71	0	0	A
	*	5190	20.37	-	-	-0.59	9.28	11.68	0	0	P
	*	5190	9.81	-	-	-11.15	9.28	11.68	0	0	A
		5444.88	-37.32	-16.12	-21.2	-58.3	9.28	11.70	0	0	P
		5376	-49.59	-8.39	-41.2	-70.57	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5150	-21.87	-0.67	-21.2	-42.86	9.28	11.71	0	0	P
		5148.98	-46.98	-5.78	-41.2	-67.97	9.28	11.71	0	0	A
	*	5210	14.69	-	-	-6.27	9.28	11.68	0	0	P
	*	5210	4.46	-	-	-16.5	9.28	11.68	0	0	A
		5447.68	-37.09	-15.89	-21.2	-58.07	9.28	11.70	0	0	P
		5376	-48.91	-7.71	-41.2	-69.89	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5149.24	-33.37	-12.17	-21.2	-54.36	9.28	11.71	0	0	P
		5087.62	-48.94	-7.74	-41.2	-69.95	9.28	11.73	0	0	A
	*	5180	22.66	-	-	1.69	9.28	11.69	0	0	P
	*	5180	12.35	-	-	-8.62	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5150	-21.85	-0.65	-21.2	-42.84	9.28	11.71	0	0	P
		5149.76	-48.58	-7.38	-41.2	-69.57	9.28	11.71	0	0	A
	*	5190	19.76	-	-	-1.2	9.28	11.68	0	0	P
	*	5190	9.37	-	-	-11.59	9.28	11.68	0	0	A
		5383	-36.89	-15.69	-21.2	-57.87	9.28	11.70	0	0	P
		5391.96	-49.65	-8.45	-41.2	-70.64	9.28	11.71	0	0	A
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 (Band Edge)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5150	-22.85	-1.65	-21.2	-43.84	9.28	11.71	0	0	P
		5149.76	-47.27	-6.07	-41.2	-68.26	9.28	11.71	0	0	A
	*	5210	14.21	-	-	-6.75	9.28	11.68	0	0	P
	*	5210	4.06	-	-	-16.9	9.28	11.68	0	0	A
		5447.12	-36.7	-15.5	-21.2	-57.68	9.28	11.70	0	0	P
		5421.64	-48.96	-7.76	-41.2	-69.95	9.28	11.71	0	0	A
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 (Band Edge)

WIFI Ant. 3	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5150	-32.6	-11.4	-21.2	-53.59	9.28	11.71	0	0	P
		5088.14	-48.52	-7.32	-41.2	-69.53	9.28	11.73	0	0	A
	*	5180	22.53	-	-	1.56	9.28	11.69	0	0	P
	*	5180	12.14	-	-	-8.83	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 3	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5150	-22.22	-1.02	-21.2	-43.21	9.28	11.71	0	0	P
		5148.98	-48.3	-7.1	-41.2	-69.29	9.28	11.71	0	0	A
	*	5190	20.07	-	-	-0.89	9.28	11.68	0	0	P
	*	5190	9.32	-	-	-11.64	9.28	11.68	0	0	A
		5386.36	-37.42	-16.22	-21.2	-58.41	9.28	11.71	0	0	P
		5380.76	-49.65	-8.45	-41.2	-70.63	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 3	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5150	-23.08	-1.88	-21.2	-44.07	9.28	11.71	0	0	P
		5149.76	-46.68	-5.48	-41.2	-67.67	9.28	11.71	0	0	A
	*	5210	14.38	-	-	-6.58	9.28	11.68	0	0	P
	*	5210	3.65	-	-	-17.31	9.28	11.68	0	0	A
		5355.84	-37.35	-16.15	-21.2	-58.33	9.28	11.70	0	0	P
		5390.84	-49.09	-7.89	-41.2	-70.08	9.28	11.71	0	0	A
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 (Band Edge)

WIFI Ant. 4	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5144.04	-35.81	-14.61	-21.2	-56.8	9.28	11.71	0	0	P
		5087.62	-48.34	-7.14	-41.2	-69.35	9.28	11.73	0	0	A
	*	5180	23.26	-	-	2.29	9.28	11.69	0	0	P
	*	5180	12.38	-	-	-8.59	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 4	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5148.98	-24.47	-3.27	-21.2	-45.46	9.28	11.71	0	0	P
		5149.76	-48.33	-7.13	-41.2	-69.32	9.28	11.71	0	0	A
	*	5190	19.72	-	-	-1.24	9.28	11.68	0	0	P
	*	5190	9.41	-	-	-11.55	9.28	11.68	0	0	A
		5386.08	-37.19	-15.99	-21.2	-58.18	9.28	11.71	0	0	P
		5373.76	-49.73	-8.53	-41.2	-70.71	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 4	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5134.42	-27.97	-6.77	-21.2	-48.96	9.28	11.71	0	0	P
		5147.68	-46.38	-5.18	-41.2	-67.37	9.28	11.71	0	0	A
	*	5210	14.05	-	-	-6.91	9.28	11.68	0	0	P
	*	5210	3.84	-	-	-17.12	9.28	11.68	0	0	A
		5375.72	-37.35	-16.15	-21.2	-58.33	9.28	11.70	0	0	P
		5352.2	-49.02	-7.82	-41.2	-70	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 5	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5060.84	-35.5	-14.3	-21.2	-56.52	9.28	11.74	0	0	P
		5087.88	-48.79	-7.59	-41.2	-69.8	9.28	11.73	0	0	A
	*	5180	22.8	-	-	1.83	9.28	11.69	0	0	P
	*	5180	13.24	-	-	-7.73	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 5	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5150	-22.64	-1.44	-21.2	-43.63	9.28	11.71	0	0	P
		5146.12	-48.49	-7.29	-41.2	-69.48	9.28	11.71	0	0	A
	*	5190	20.5	-	-	-0.46	9.28	11.68	0	0	P
	*	5190	10.5	-	-	-10.46	9.28	11.68	0	0	A
		5449.08	-37.23	-16.03	-21.2	-58.21	9.28	11.70	0	0	P
		5376	-49.77	-8.57	-41.2	-70.75	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 5	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5149.5	-23.95	-2.75	-21.2	-44.94	9.28	11.71	0	0	P
		5150	-47.02	-5.82	-41.2	-68.01	9.28	11.71	0	0	A
	*	5210	15.26	-	-	-5.7	9.28	11.68	0	0	P
	*	5210	5.02	-	-	-15.94	9.28	11.68	0	0	A
		5353.32	-37.14	-15.94	-21.2	-58.12	9.28	11.70	0	0	P
		5352.48	-49.2	-8	-41.2	-70.18	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 6	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5147.42	-35.03	-13.83	-21.2	-56.02	9.28	11.71	0	0	P
		5148.2	-48.74	-7.54	-41.2	-69.73	9.28	11.71	0	0	A
	*	5180	22.65	-	-	1.68	9.28	11.69	0	0	P
	*	5180	12.34	-	-	-8.63	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 6	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5148.98	-23.66	-2.46	-21.2	-44.65	9.28	11.71	0	0	P
		5150	-48.28	-7.08	-41.2	-69.27	9.28	11.71	0	0	A
	*	5190	19.83	-	-	-1.13	9.28	11.68	0	0	P
	*	5190	9.66	-	-	-11.3	9.28	11.68	0	0	A
		5407.92	-36.59	-15.39	-21.2	-57.58	9.28	11.71	0	0	P
		5384.96	-49.51	-8.31	-41.2	-70.49	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 6	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5149.5	-25.61	-4.41	-21.2	-46.6	9.28	11.71	0	0	P
		5150	-45.96	-4.76	-41.2	-66.95	9.28	11.71	0	0	A
	*	5210	14.98	-	-	-5.98	9.28	11.68	0	0	P
	*	5210	4.33	-	-	-16.63	9.28	11.68	0	0	A
		5350.52	-36.41	-15.21	-21.2	-57.39	9.28	11.70	0	0	P
		5370.12	-48.24	-7.04	-41.2	-69.22	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 7	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5088.14	-35.85	-14.65	-21.2	-56.86	9.28	11.73	0	0	P
		5088.14	-48.38	-7.18	-41.2	-69.39	9.28	11.73	0	0	A
	*	5180	22.98	-	-	2.01	9.28	11.69	0	0	P
	*	5180	12.87	-	-	-8.1	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 7	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5150	-22.85	-1.65	-21.2	-43.84	9.28	11.71	0	0	P
		5148.46	-48.6	-7.4	-41.2	-69.59	9.28	11.71	0	0	A
	*	5190	19.87	-	-	-1.09	9.28	11.68	0	0	P
	*	5190	9.58	-	-	-11.38	9.28	11.68	0	0	A
		5417.44	-37.08	-15.88	-21.2	-58.06	9.28	11.70	0	0	P
		5376	-49.57	-8.37	-41.2	-70.55	9.28	11.70	0	0	A
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 (Band Edge)**

WIFI Ant. 7	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5150	-24.77	-3.57	-21.2	-45.76	9.28	11.71	0	0	P
		5150	-47.5	-6.3	-41.2	-68.49	9.28	11.71	0	0	A
	*	5210	14.71	-	-	-6.25	9.28	11.68	0	0	P
	*	5210	3.9	-	-	-17.06	9.28	11.68	0	0	A
		5440.12	-36.26	-15.06	-21.2	-57.25	9.28	11.71	0	0	P
		5350	-48.86	-7.66	-41.2	-69.84	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 8	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5150	-30.64	-9.44	-21.2	-51.63	9.28	11.71	0	0	P
		5088.14	-47.81	-6.61	-41.2	-68.82	9.28	11.73	0	0	A
	*	5180	22.78	-	-	1.81	9.28	11.69	0	0	P
	*	5180	12.73	-	-	-8.24	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 8	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5150	-23.02	-1.82	-21.2	-44.01	9.28	11.71	0	0	P
		5088.14	-48.22	-7.02	-41.2	-69.23	9.28	11.73	0	0	A
	*	5190	20.02	-	-	-0.94	9.28	11.68	0	0	P
	*	5190	9.68	-	-	-11.28	9.28	11.68	0	0	A
		5379.92	-37.72	-16.52	-21.2	-58.7	9.28	11.70	0	0	P
		5376.28	-49.67	-8.47	-41.2	-70.65	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 8	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5150	-24.68	-3.48	-21.2	-45.67	9.28	11.71	0	0	P
		5150	-47.17	-5.97	-41.2	-68.16	9.28	11.71	0	0	A
	*	5210	14.06	-	-	-6.9	9.28	11.68	0	0	P
	*	5210	4.09	-	-	-16.87	9.28	11.68	0	0	A
		5353.04	-37.25	-16.05	-21.2	-58.23	9.28	11.70	0	0	P
		5375.72	-49.1	-7.9	-41.2	-70.08	9.28	11.70	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

<Middle Unmodulated>
Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5146.38	-22.6	-1.4	-21.2	-43.59	9.28	11.71	0	0	P
		5148.72	-44.9	-3.7	-41.2	-65.89	9.28	11.71	0	0	A
	*	5180	20.08	-	-	-0.89	9.28	11.69	0	0	P
	*	5180	10.69	-	-	-10.28	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5148.46	-24.36	-3.16	-21.2	-45.35	9.28	11.71	0	0	P
		5144.82	-48.02	-6.82	-41.2	-69.01	9.28	11.71	0	0	A
	*	5190	19.22	-	-	-1.74	9.28	11.68	0	0	P
	*	5190	7.39	-	-	-13.57	9.28	11.68	0	0	A
		5360.88	-37.29	-16.09	-21.2	-58.28	9.28	11.71	0	0	P
		5376	-49.81	-8.61	-41.2	-70.79	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5150	-22.37	-1.17	-21.2	-43.36	9.28	11.71	0	0	P
		5147.68	-44.92	-3.72	-41.2	-65.91	9.28	11.71	0	0	A
	*	5210	15.66	-	-	-5.3	9.28	11.68	0	0	P
	*	5210	5.72	-	-	-15.24	9.28	11.68	0	0	A
		5354.72	-36.97	-15.77	-21.2	-57.95	9.28	11.70	0	0	P
		5376	-47.95	-6.75	-41.2	-68.93	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5147.68	-22.51	-1.31	-21.2	-43.5	9.28	11.71	0	0	P
		5148.46	-46.32	-5.12	-41.2	-67.31	9.28	11.71	0	0	A
	*	5180	20.68	-	-	-0.29	9.28	11.69	0	0	P
	*	5180	10.61	-	-	-10.36	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5146.38	-22.09	-0.89	-21.2	-43.08	9.28	11.71	0	0	P
		5148.98	-47.45	-6.25	-41.2	-68.44	9.28	11.71	0	0	A
	*	5190	18.08	-	-	-2.88	9.28	11.68	0	0	P
	*	5190	7.46	-	-	-13.5	9.28	11.68	0	0	A
		5433.68	-36.77	-15.57	-21.2	-57.76	9.28	11.71	0	0	P
		5365.64	-49.69	-8.49	-41.2	-70.68	9.28	11.71	0	0	A
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 (Band Edge)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5149.76	-22.1	-0.9	-21.2	-43.09	9.28	11.71	0	0	P
		5149.24	-43.92	-2.72	-41.2	-64.91	9.28	11.71	0	0	A
	*	5210	15.92	-	-	-5.04	9.28	11.68	0	0	P
	*	5210	5.99	-	-	-14.97	9.28	11.68	0	0	A
		5398.4	-37.37	-16.17	-21.2	-58.36	9.28	11.71	0	0	P
		5363.12	-48.14	-6.94	-41.2	-69.13	9.28	11.71	0	0	A
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 (Band Edge)

WIFI Ant. 3	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5146.38	-21.85	-0.65	-21.2	-42.84	9.28	11.71	0	0	P
		5148.98	-45.92	-4.72	-41.2	-66.91	9.28	11.71	0	0	A
	*	5180	21.07	-	-	0.1	9.28	11.69	0	0	P
	*	5180	10.42	-	-	-10.55	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 3	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5144.56	-28.63	-7.43	-21.2	-49.62	9.28	11.71	0	0	P
		5148.2	-44.58	-3.38	-41.2	-65.57	9.28	11.71	0	0	A
	*	5190	17.94	-	-	-3.02	9.28	11.68	0	0	P
	*	5190	7.14	-	-	-13.82	9.28	11.68	0	0	A
		5391.96	-36.98	-15.78	-21.2	-57.97	9.28	11.71	0	0	P
		5365.36	-49.71	-8.51	-41.2	-70.7	9.28	11.71	0	0	A
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 (Band Edge)

WIFI Ant. 3	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5150	-23.28	-2.08	-21.2	-44.27	9.28	11.71	0	0	P
		5124.54	-41.93	-0.73	-41.2	-62.93	9.28	11.72	0	0	A
	*	5210	14.67	-	-	-6.29	9.28	11.68	0	0	P
	*	5210	5.4	-	-	-15.56	9.28	11.68	0	0	A
		5357.8	-36.51	-15.31	-21.2	-57.5	9.28	11.71	0	0	P
		5355.28	-48.13	-6.93	-41.2	-69.11	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 4	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5146.38	-22.02	-0.82	-21.2	-43.01	9.28	11.71	0	0	P
		5147.94	-46.61	-5.41	-41.2	-67.6	9.28	11.71	0	0	A
	*	5180	20.35	-	-	-0.62	9.28	11.69	0	0	P
	*	5180	10.49	-	-	-10.48	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 4	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5147.68	-28.53	-7.33	-21.2	-49.52	9.28	11.71	0	0	P
		5147.94	-44.59	-3.39	-41.2	-65.58	9.28	11.71	0	0	A
	*	5190	18.16	-	-	-2.8	9.28	11.68	0	0	P
	*	5190	7.54	-	-	-13.42	9.28	11.68	0	0	A
		5439.28	-37.17	-15.97	-21.2	-58.16	9.28	11.71	0	0	P
		5367.04	-49.77	-8.57	-41.2	-70.75	9.28	11.70	0	0	A
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 (Band Edge)**

WIFI Ant. 4	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5122.2	-29.72	-8.52	-21.2	-50.72	9.28	11.72	0	0	P
		5126.88	-42.43	-1.23	-41.2	-63.43	9.28	11.72	0	0	A
	*	5210	15.24	-	-	-5.72	9.28	11.68	0	0	P
	*	5210	5.31	-	-	-15.65	9.28	11.68	0	0	A
		5367.6	-37.3	-16.1	-21.2	-58.28	9.28	11.70	0	0	P
		5359.2	-47.94	-6.74	-41.2	-68.93	9.28	11.71	0	0	A
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 (Band Edge)

WIFI Ant. 5	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5148.72	-24.37	-3.17	-21.2	-45.36	9.28	11.71	0	0	P
		5148.72	-46.51	-5.31	-41.2	-67.5	9.28	11.71	0	0	A
	*	5180	22	-	-	1.03	9.28	11.69	0	0	P
	*	5180	11.26	-	-	-9.71	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 5	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5144.04	-29.12	-7.92	-21.2	-50.11	9.28	11.71	0	0	P
		5150	-46.5	-5.3	-41.2	-67.49	9.28	11.71	0	0	A
	*	5190	19.32	-	-	-1.64	9.28	11.68	0	0	P
	*	5190	7.67	-	-	-13.29	9.28	11.68	0	0	A
		5402.88	-37.58	-16.38	-21.2	-58.57	9.28	11.71	0	0	P
		5405.68	-49.91	-8.71	-41.2	-70.9	9.28	11.71	0	0	A
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 (Band Edge)

WIFI Ant. 5	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5149.24	-24.94	-3.74	-21.2	-45.93	9.28	11.71	0	0	P
		5126.88	-43.19	-1.99	-41.2	-64.19	9.28	11.72	0	0	A
	*	5210	15.77	-	-	-5.19	9.28	11.68	0	0	P
	*	5210	6.45	-	-	-14.51	9.28	11.68	0	0	A
		5399.8	-37.12	-15.92	-21.2	-58.11	9.28	11.71	0	0	P
		5375.72	-48.14	-6.94	-41.2	-69.12	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 6	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5146.64	-21.32	-0.12	-21.2	-42.31	9.28	11.71	0	0	P
		5149.5	-45.98	-4.78	-41.2	-66.97	9.28	11.71	0	0	A
	*	5180	21.66	-	-	0.69	9.28	11.69	0	0	P
	*	5180	11.19	-	-	-9.78	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 6	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5148.72	-26.75	-5.55	-21.2	-47.74	9.28	11.71	0	0	P
		5148.72	-41.31	-0.11	-41.2	-62.3	9.28	11.71	0	0	A
	*	5190	19.77	-	-	-1.19	9.28	11.68	0	0	P
	*	5190	8.19	-	-	-12.77	9.28	11.68	0	0	A
		5360.32	-37.08	-15.88	-21.2	-58.07	9.28	11.71	0	0	P
		5370.68	-49.37	-8.17	-41.2	-70.35	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 6	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5149.24	-27.38	-6.18	-21.2	-48.37	9.28	11.71	0	0	P
		5117.78	-41.91	-0.71	-41.2	-62.91	9.28	11.72	0	0	A
	*	5210	15.92	-	-	-5.04	9.28	11.68	0	0	P
	*	5210	5.69	-	-	-15.27	9.28	11.68	0	0	A
		5419.4	-37.1	-15.9	-21.2	-58.08	9.28	11.70	0	0	P
		5370.12	-47.17	-5.97	-41.2	-68.15	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 7	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5147.16	-23.34	-2.14	-21.2	-44.33	9.28	11.71	0	0	P
		5146.64	-46.13	-4.93	-41.2	-67.12	9.28	11.71	0	0	A
	*	5180	20.41	-	-	-0.56	9.28	11.69	0	0	P
	*	5180	10.49	-	-	-10.48	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 7	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5146.64	-27.37	-6.17	-21.2	-48.36	9.28	11.71	0	0	P
		5149.76	-47.36	-6.16	-41.2	-68.35	9.28	11.71	0	0	A
	*	5190	18.1	-	-	-2.86	9.28	11.68	0	0	P
	*	5190	7.5	-	-	-13.46	9.28	11.68	0	0	A
		5396.44	-37.59	-16.39	-21.2	-58.58	9.28	11.71	0	0	P
		5375.72	-49.67	-8.47	-41.2	-70.65	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 7	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5149.76	-25.34	-4.14	-21.2	-46.33	9.28	11.71	0	0	P
		5150	-45.17	-3.97	-41.2	-66.16	9.28	11.71	0	0	A
	*	5210	16.15	-	-	-4.81	9.28	11.68	0	0	P
	*	5210	5.3	-	-	-15.66	9.28	11.68	0	0	A
		5366.76	-37.11	-15.91	-21.2	-58.09	9.28	11.70	0	0	P
		5354.44	-48.06	-6.86	-41.2	-69.04	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 8	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 36 5180MHz		5147.16	-22.6	-1.4	-21.2	-43.59	9.28	11.71	0	0	P
		5149.5	-45.03	-3.83	-41.2	-66.02	9.28	11.71	0	0	A
	*	5180	21.96	-	-	0.99	9.28	11.69	0	0	P
	*	5180	10.9	-	-	-10.07	9.28	11.69	0	0	A
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 (Band Edge)

WIFI Ant. 8	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE40 CH 38 5190MHz		5145.08	-35.15	-13.95	-21.2	-56.14	9.28	11.71	0	0	P
		5145.6	-47.25	-6.05	-41.2	-68.24	9.28	11.71	0	0	A
	*	5190	18	-	-	-2.96	9.28	11.68	0	0	P
	*	5190	7.61	-	-	-13.35	9.28	11.68	0	0	A
		5439	-37.47	-16.27	-21.2	-58.46	9.28	11.71	0	0	P
		5376	-49.71	-8.51	-41.2	-70.69	9.28	11.70	0	0	A
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 (Band Edge)

WIFI Ant. 8	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Groun ding Factor (dB)	Peak Avg. (P/A)
802.11ax HE80 CH 42 5210MHz		5149.76	-26.04	-4.84	-21.2	-47.03	9.28	11.71	0	0	P
		5113.1	-44.68	-3.48	-41.2	-65.68	9.28	11.72	0	0	A
	*	5210	15.69	-	-	-5.27	9.28	11.68	0	0	P
	*	5210	5.44	-	-	-15.52	9.28	11.68	0	0	A
		5437.04	-37.19	-15.99	-21.2	-58.18	9.28	11.71	0	0	P
		5368.72	-48.44	-7.24	-41.2	-69.42	9.28	11.70	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



Note symbol

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

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

WIFI Ant. 1	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)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		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”.



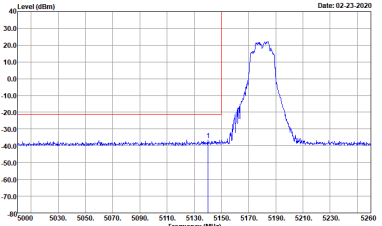
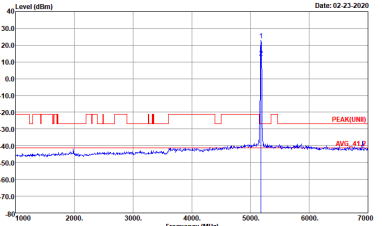
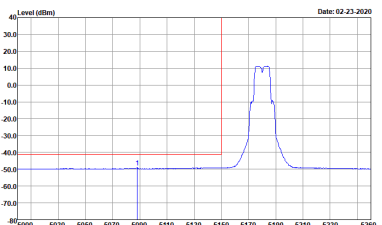
Appendix D. Conducted Spurious Emission Plots

Test Engineer :	Jordan Huang	Temperature :	23~25°C
		Relative Humidity :	52~58%

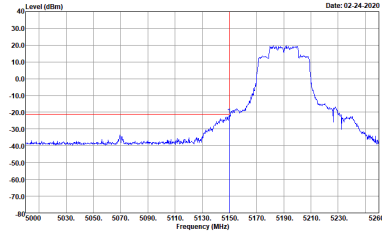
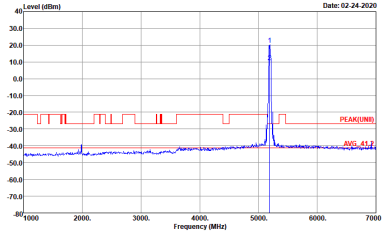
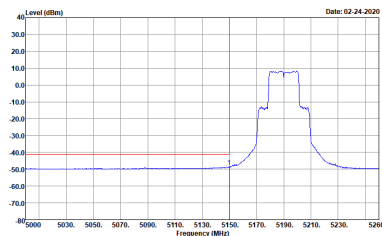
Note symbol

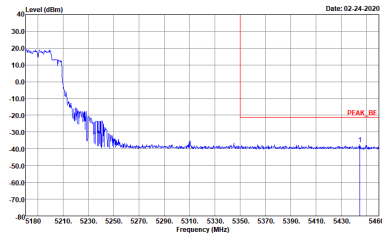
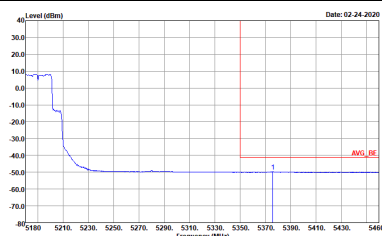
-L	Low channel location
-R	High channel location

<Band-edge Unmodulated>
Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

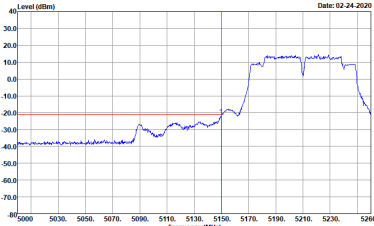
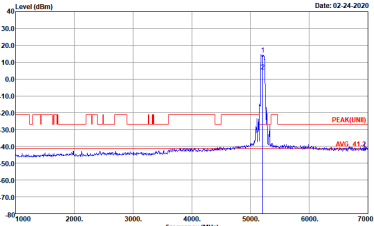
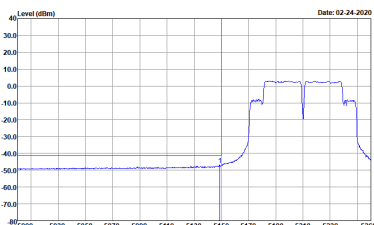
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(LINE) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

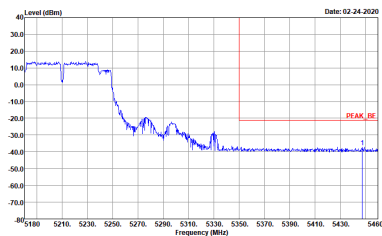
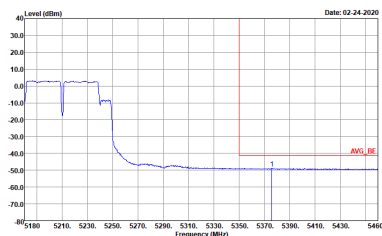
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

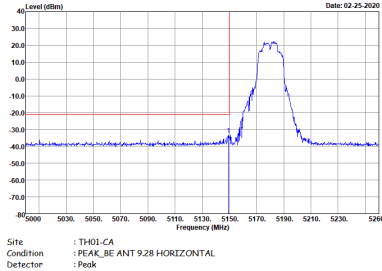
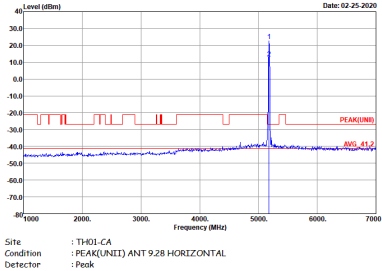
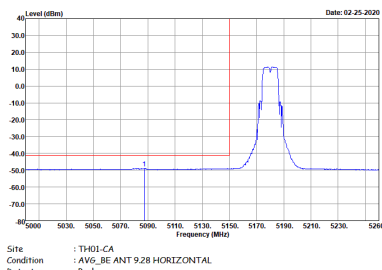
Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

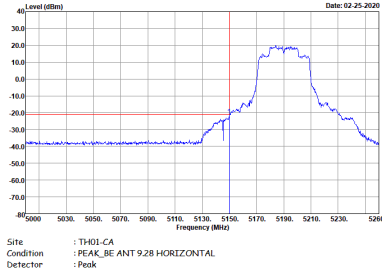
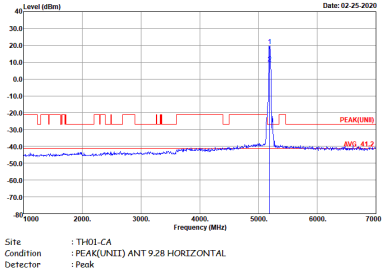
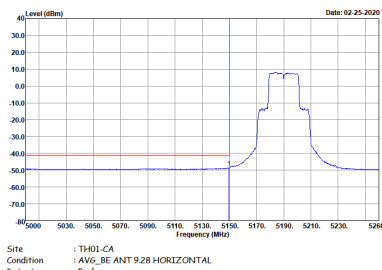


WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

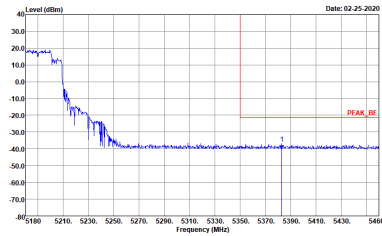
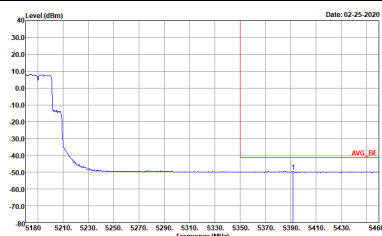
Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

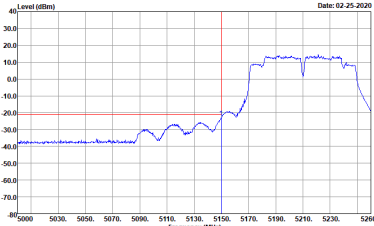
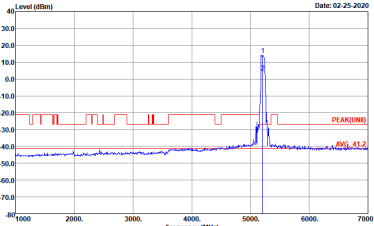
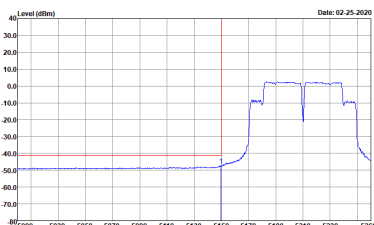
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

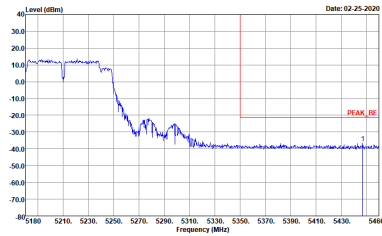
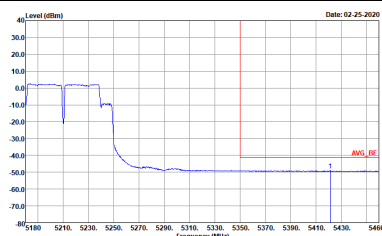
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank



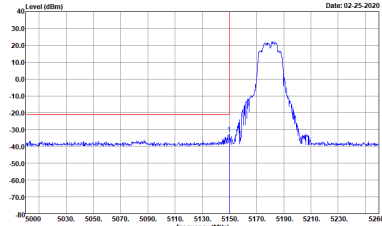
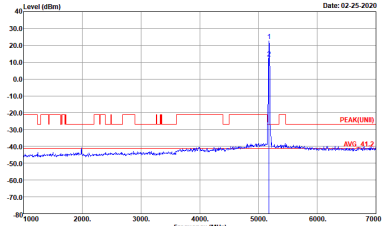
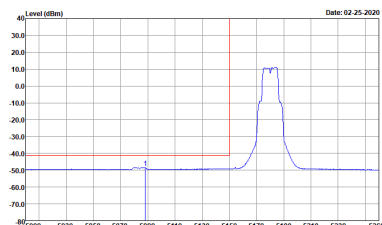
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

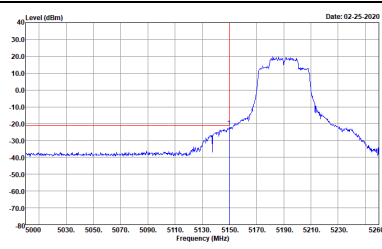
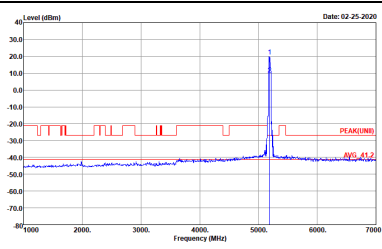
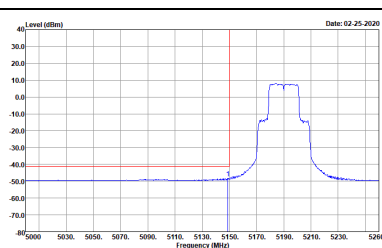
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

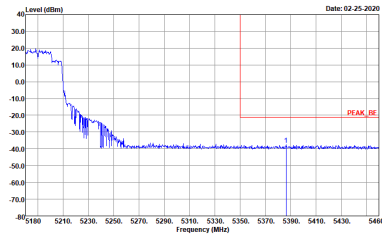
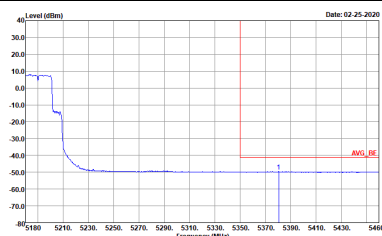
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

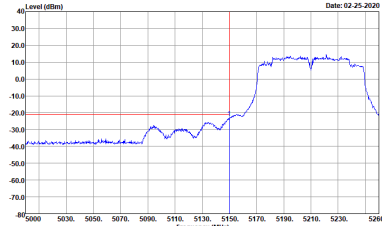
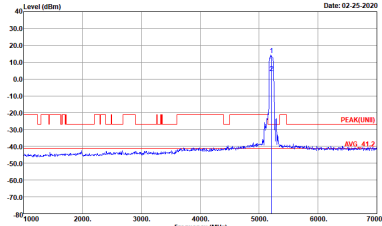
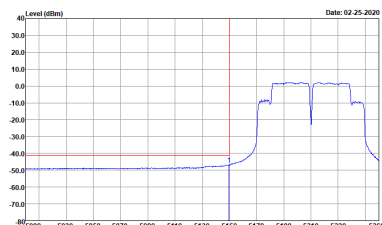
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

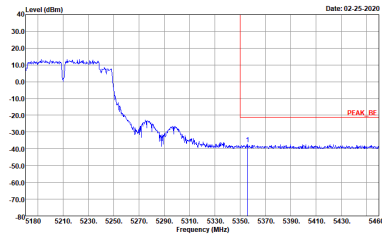
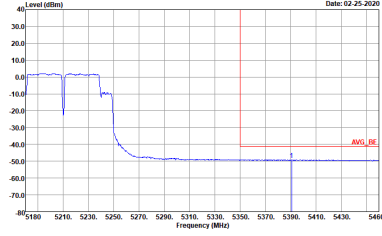
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

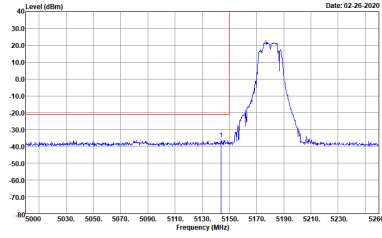
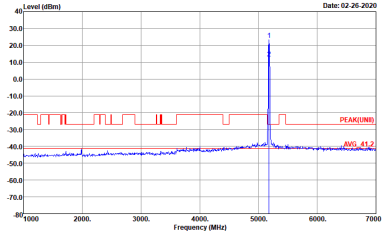
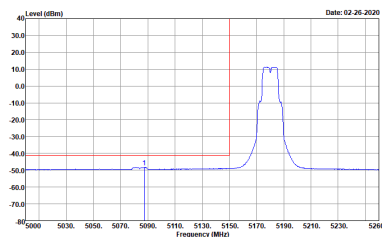
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

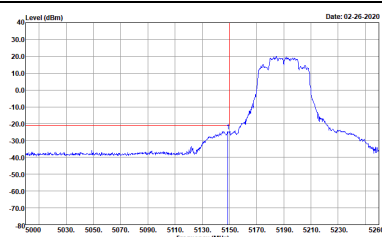
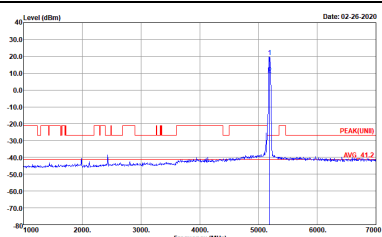
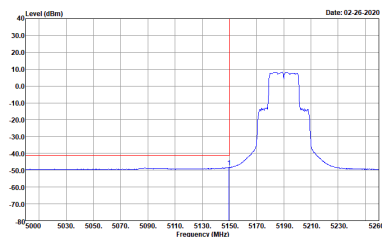
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

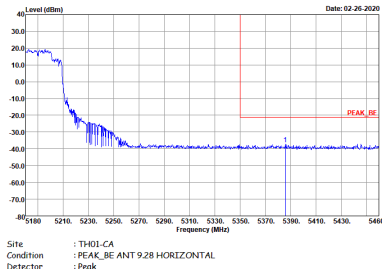
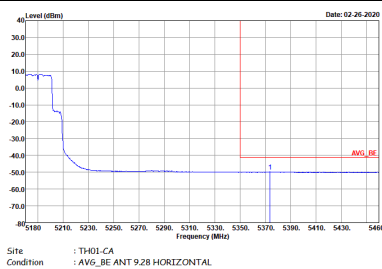
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

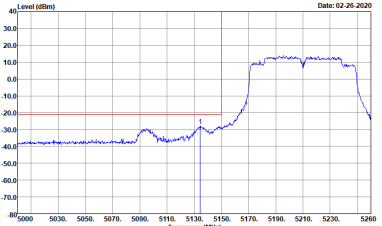
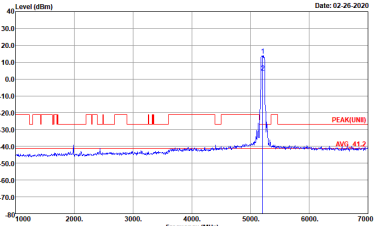
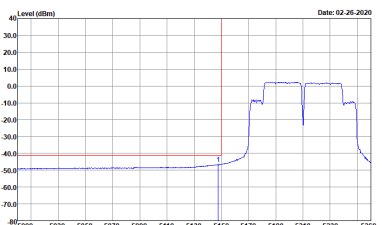
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

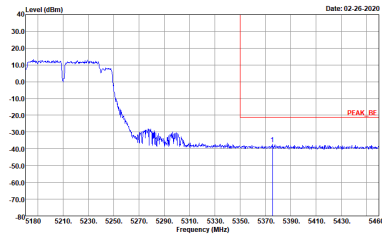
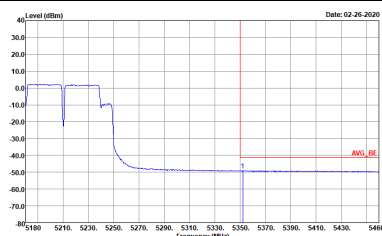
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

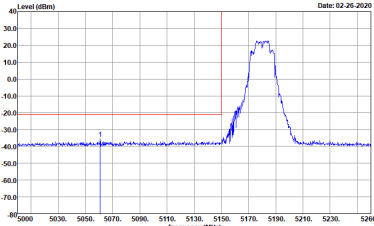
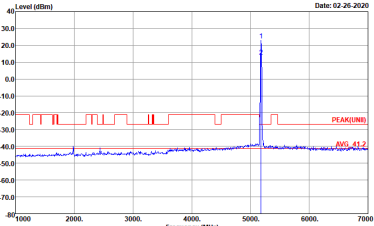
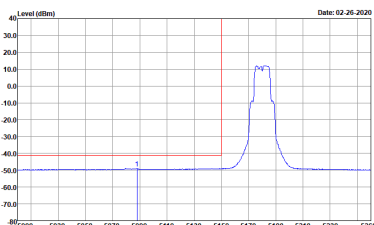
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

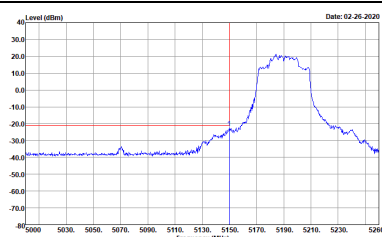
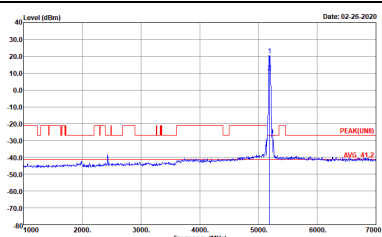
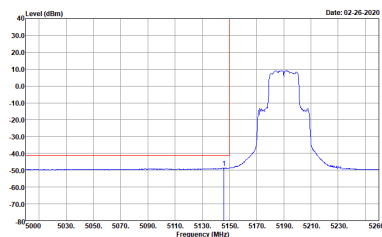
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

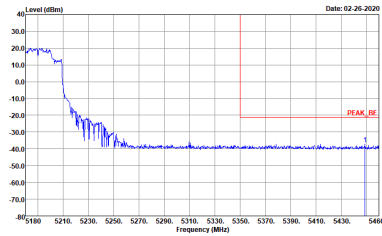
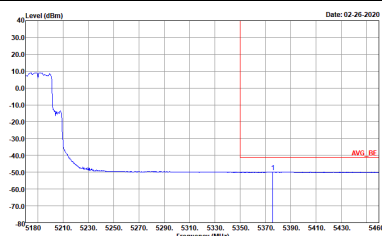
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

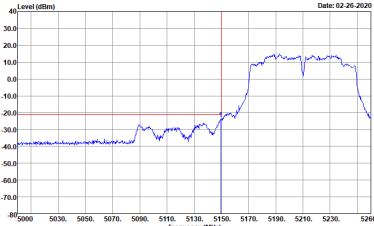
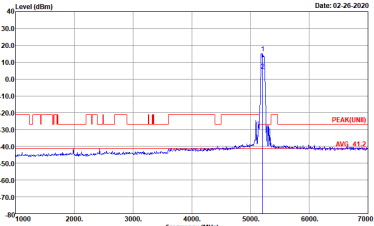
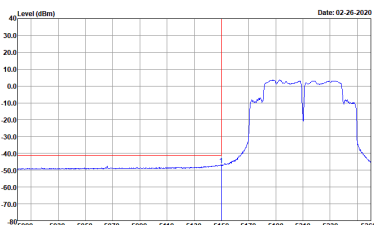
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

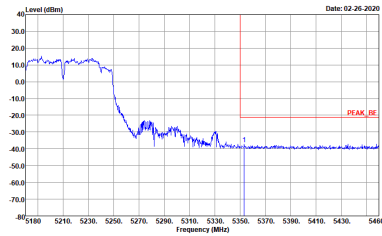
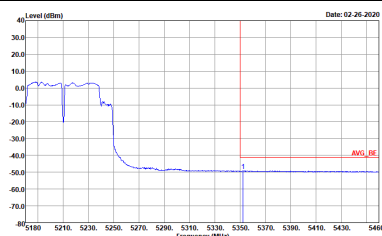
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

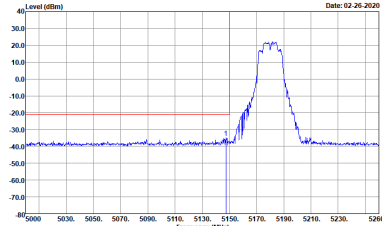
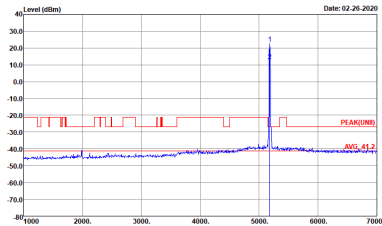
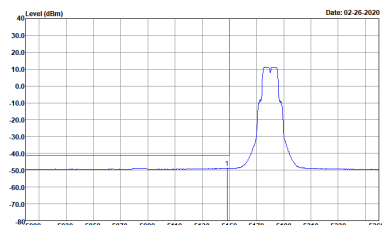
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

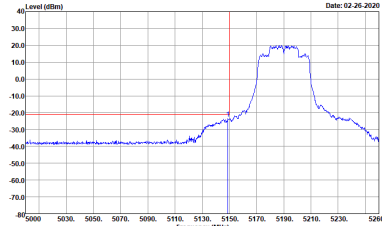
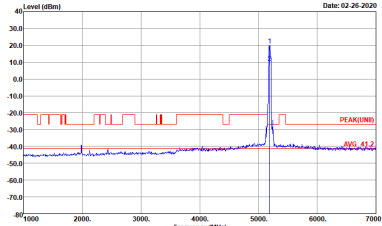
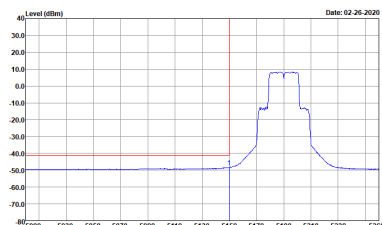
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

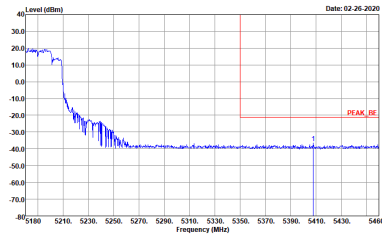
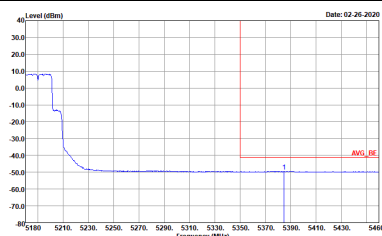
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

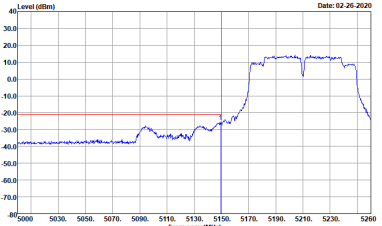
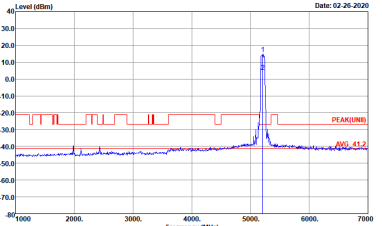
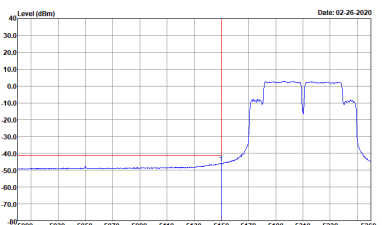
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

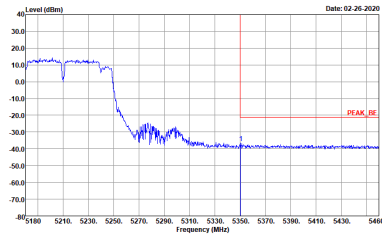
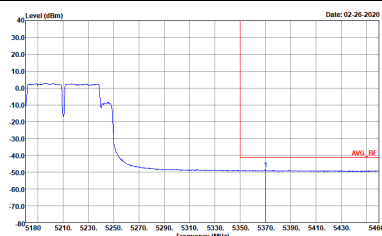
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

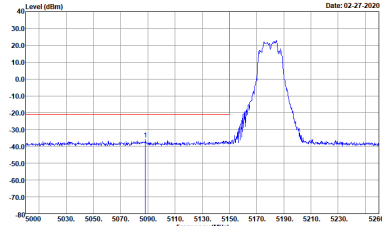
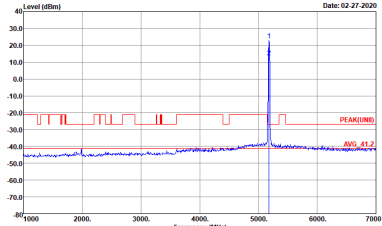
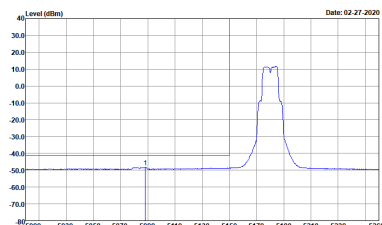
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

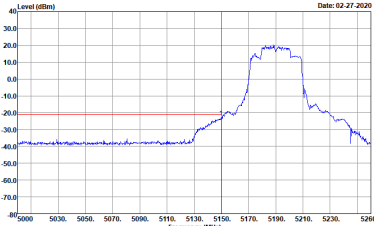
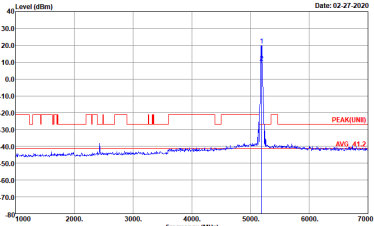
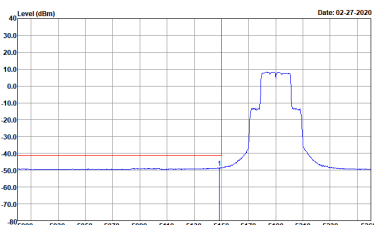
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

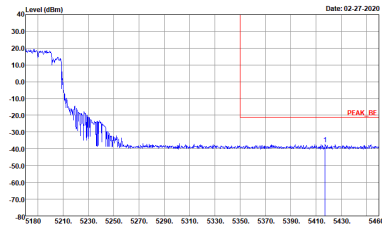
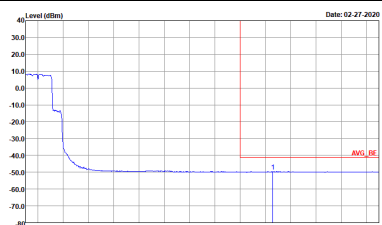
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

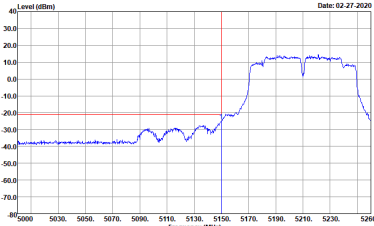
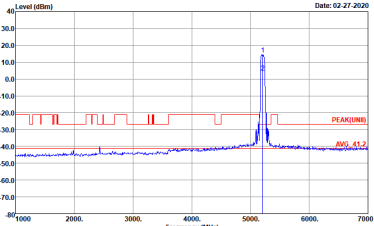
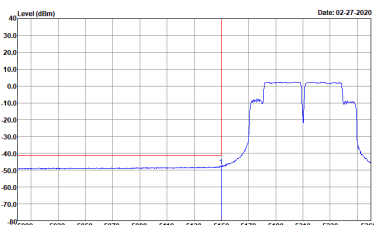
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

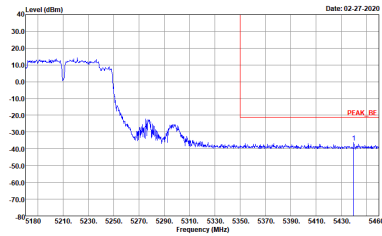
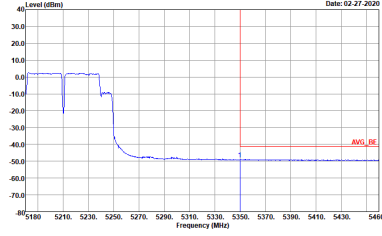
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

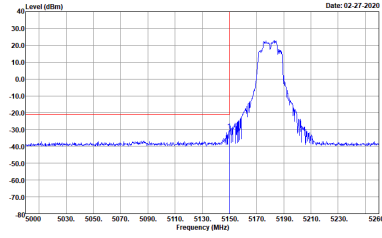
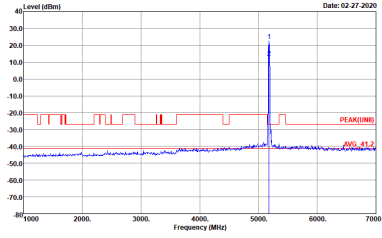
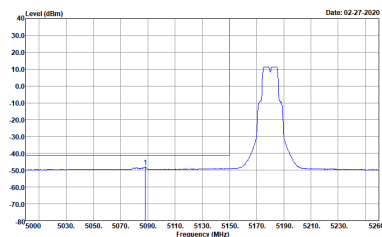
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

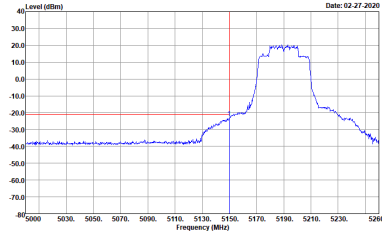
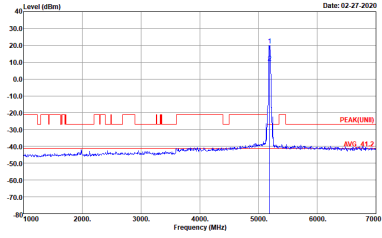
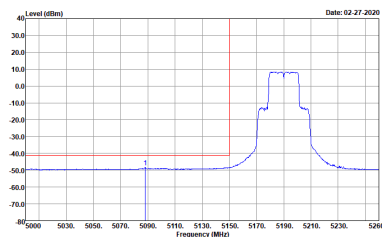
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

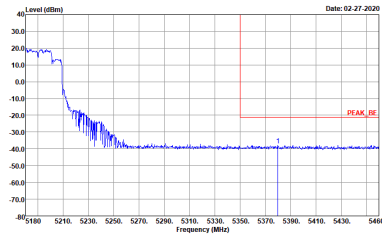
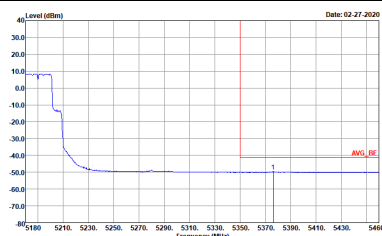
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

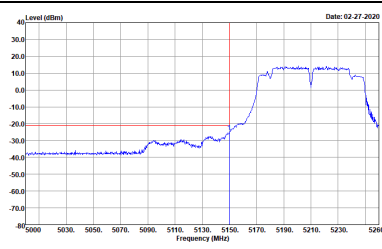
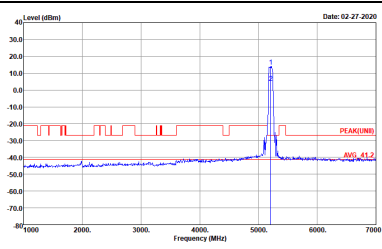
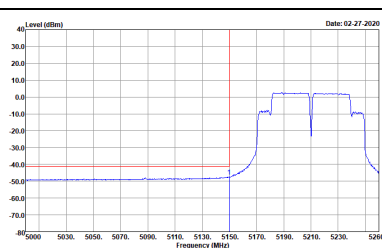
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
8	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

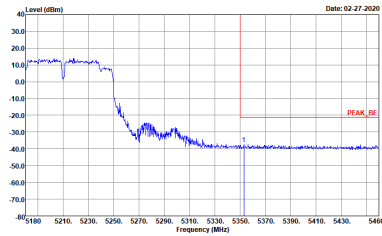
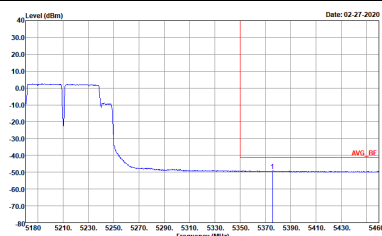
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
8	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

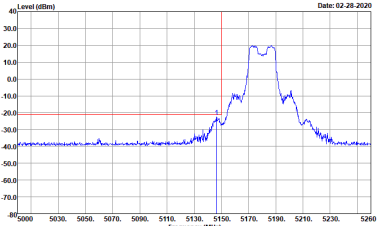
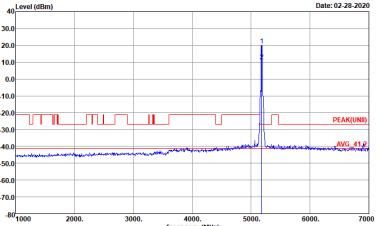
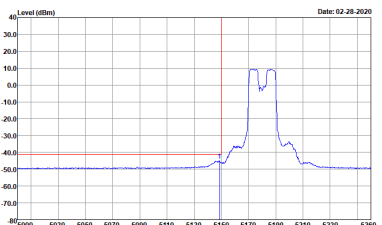
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
8	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

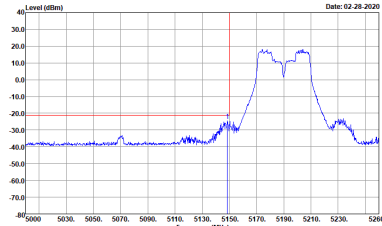
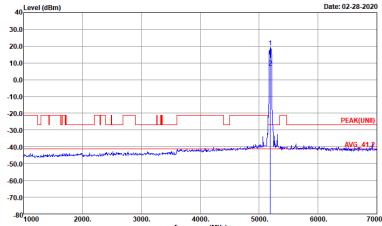
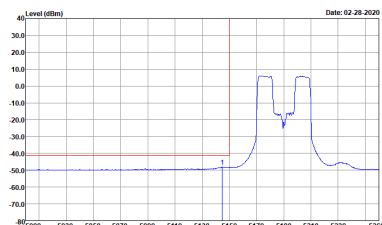
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
8	CSE	Fundamental
Peak	 Level (dBm) Frequency (MHz) Date: 02-27-2020 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Level (dBm) Frequency (MHz) Date: 02-27-2020 Site : TH01-CA Condition : PEAK(UNII) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Level (dBm) Frequency (MHz) Date: 02-27-2020 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

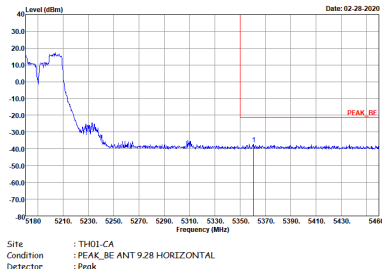
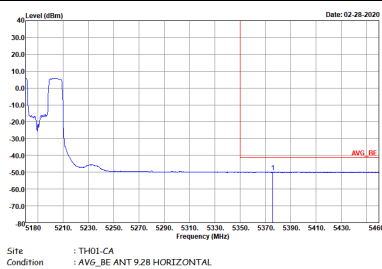
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
8	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

<Middle Unmodulated>
Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

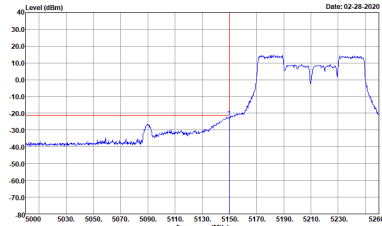
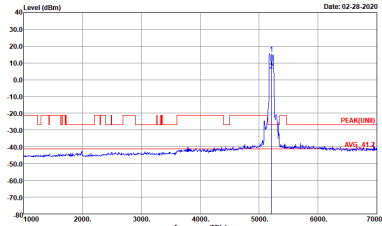
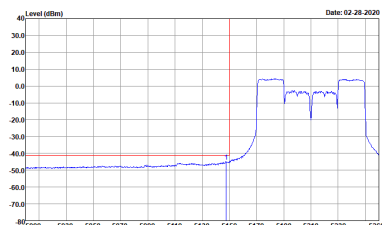
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

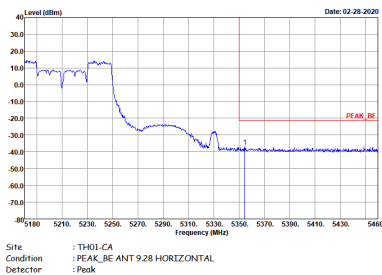
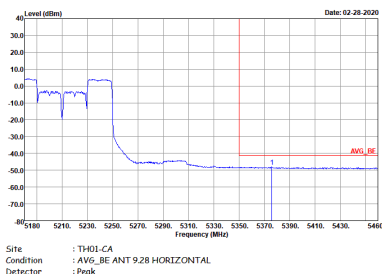
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
1	CSE	Fundamental
Peak		Left blank
Avg.		Left blank

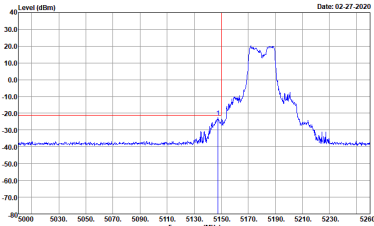
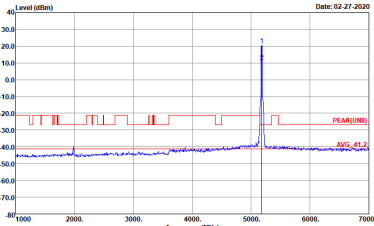
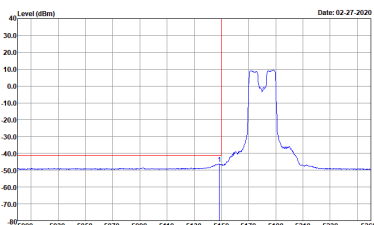
Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

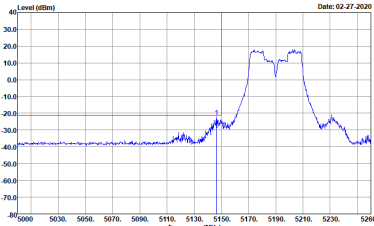
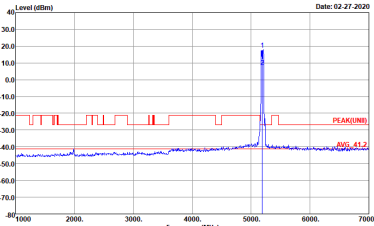
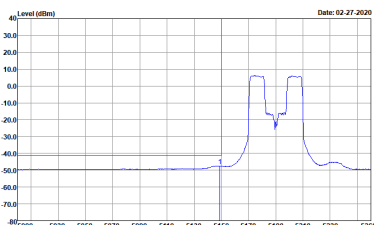


WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
1	CSE	Fundamental
Peak		Left blank
Avg.		Left blank

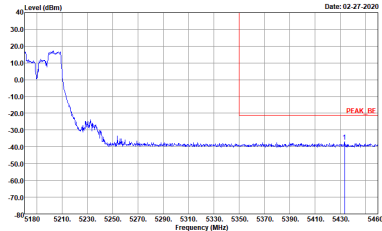
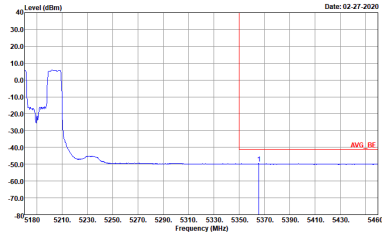
Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

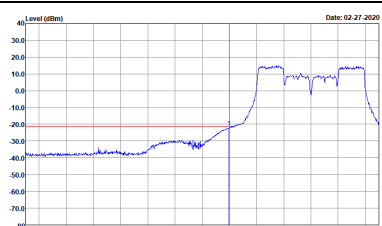
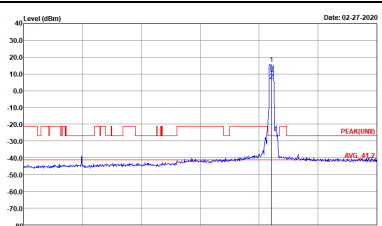
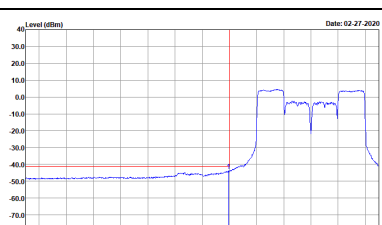
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

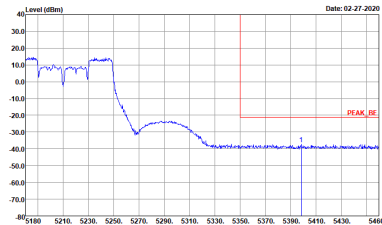
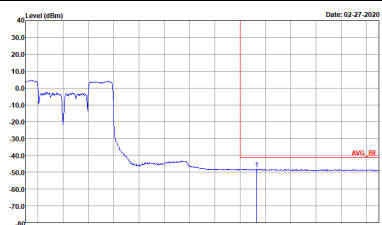
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank



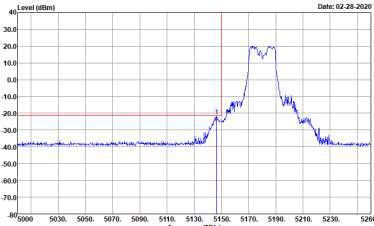
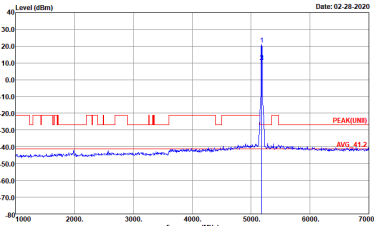
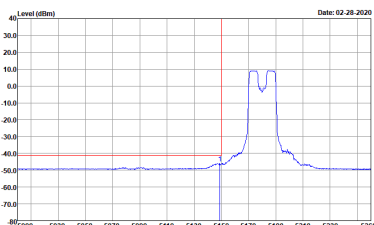
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

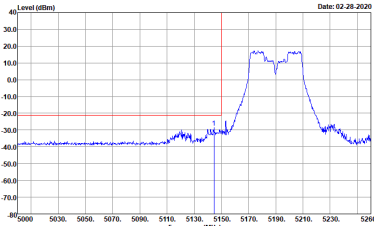
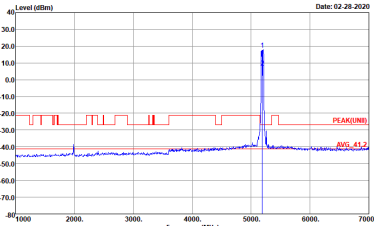
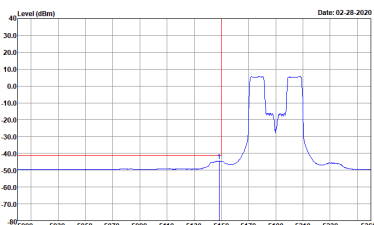
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

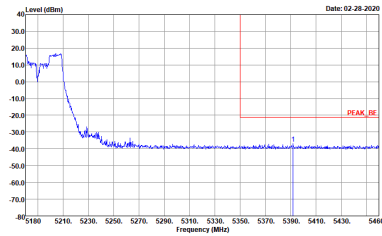
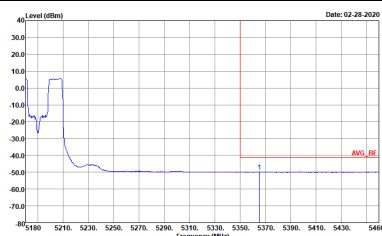
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

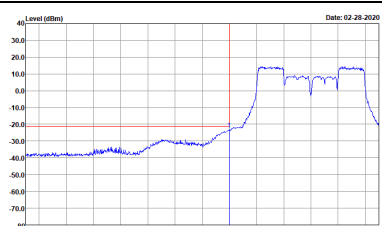
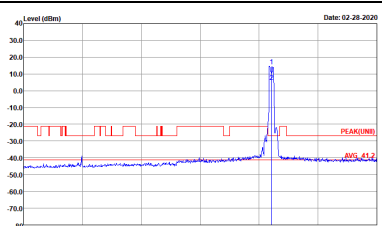
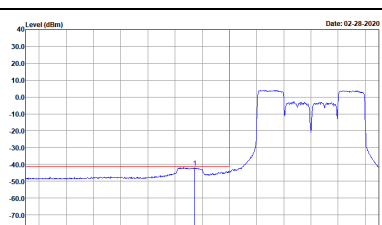
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

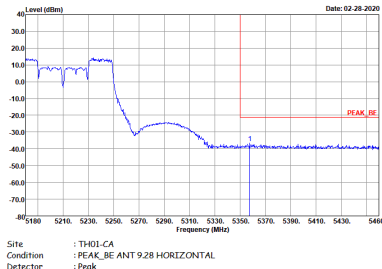
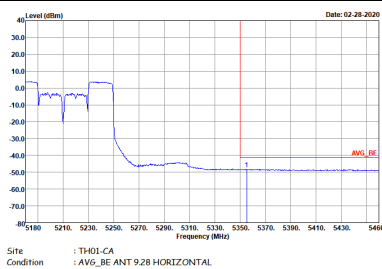
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

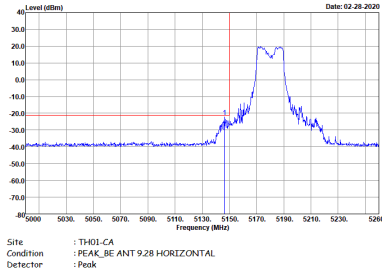
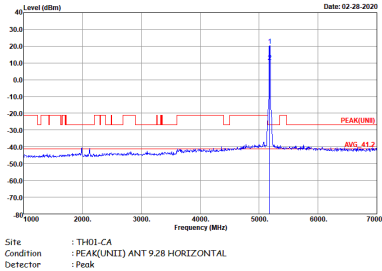
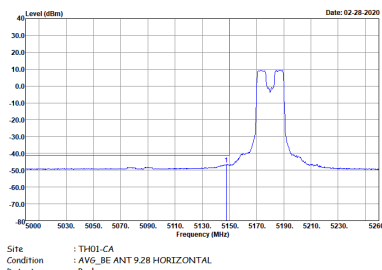
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

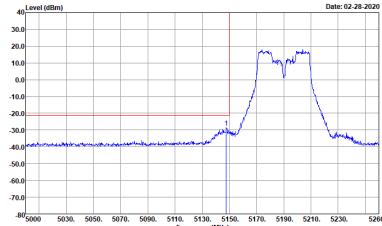
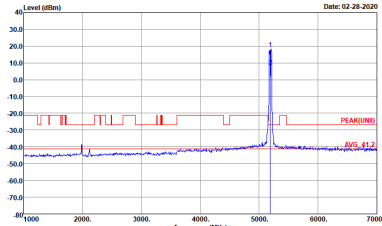
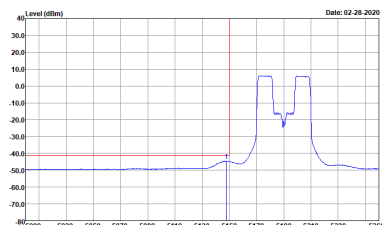
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

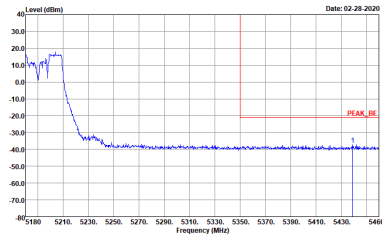
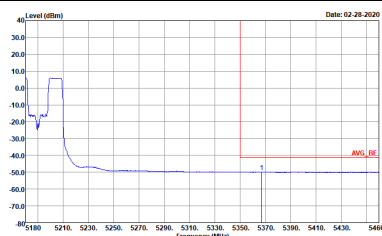
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

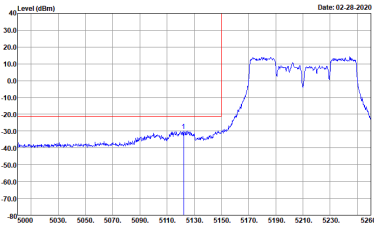
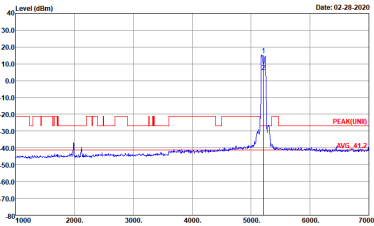
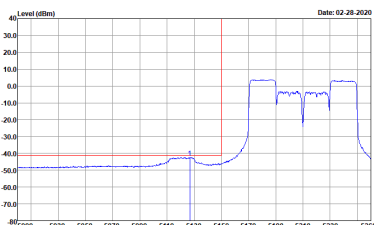
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

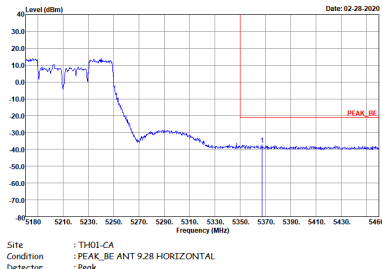
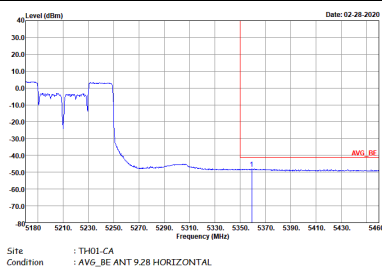
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

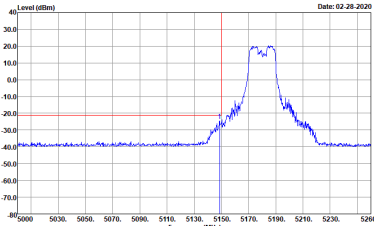
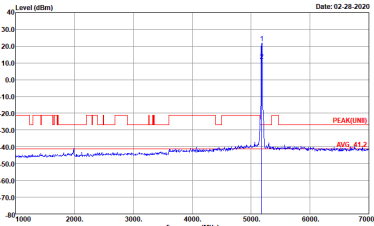
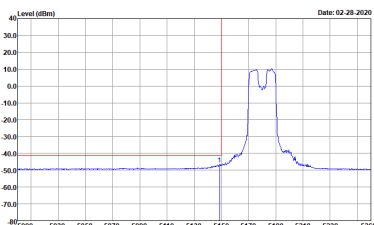
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

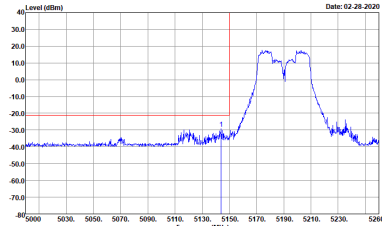
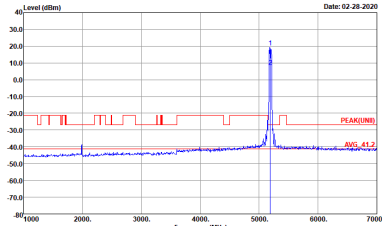
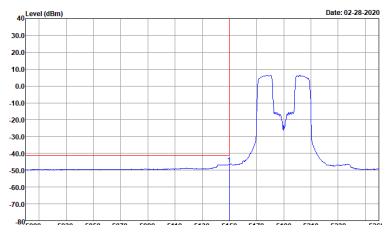
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

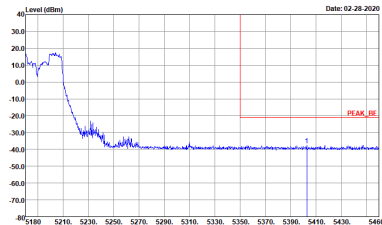
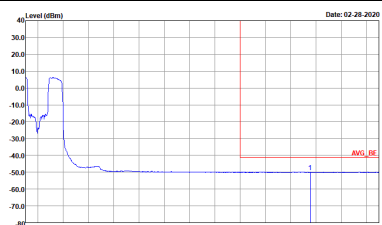
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
4	CSE	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

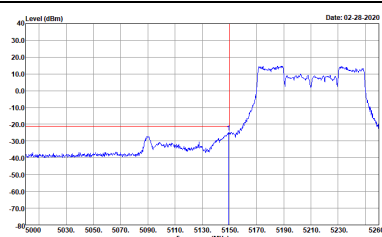
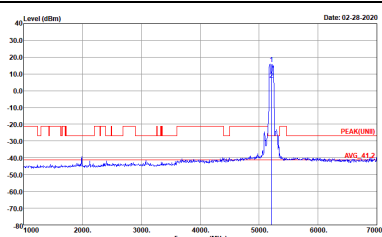
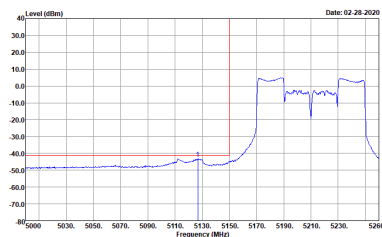
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

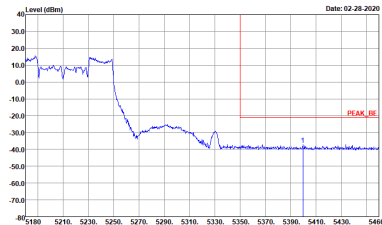
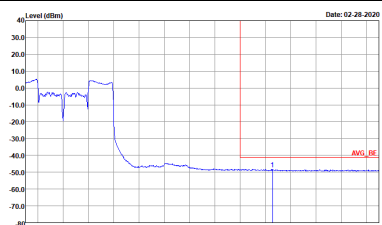
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

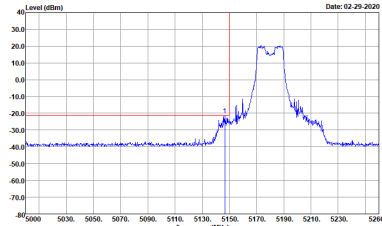
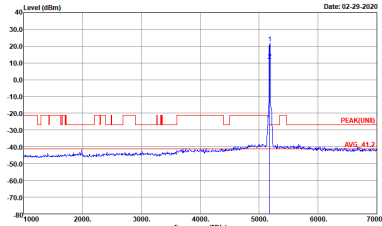
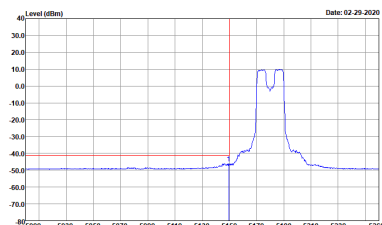
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

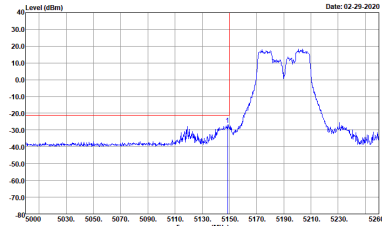
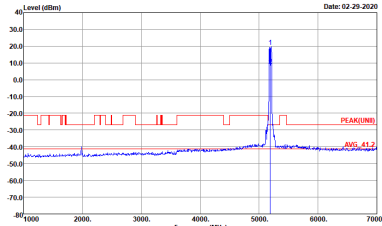
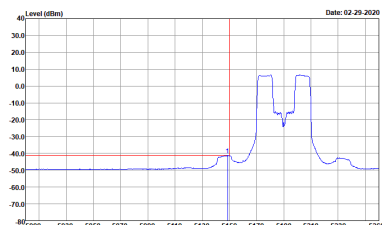
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

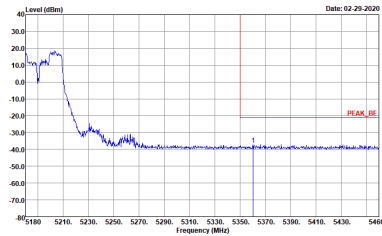
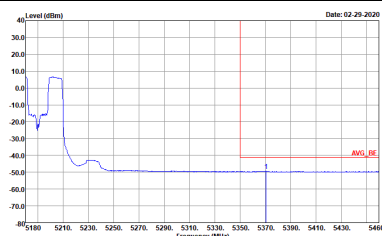
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
5	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

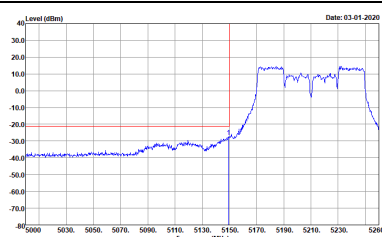
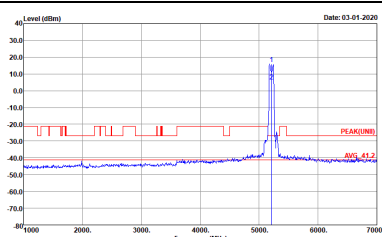
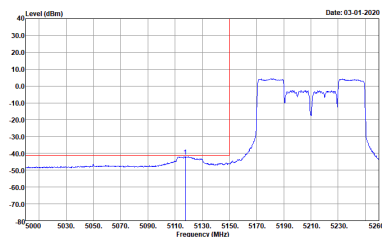
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

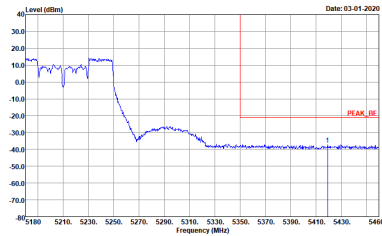
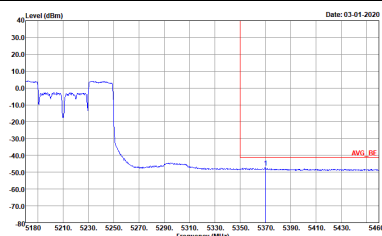
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

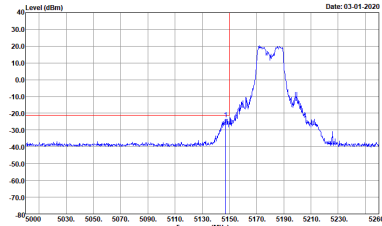
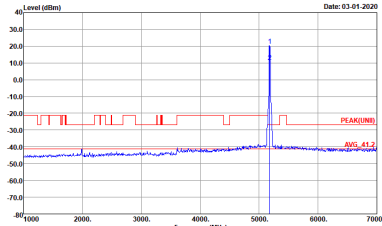
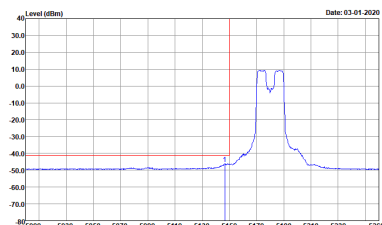
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

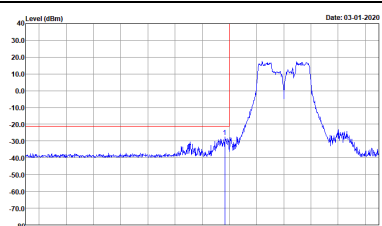
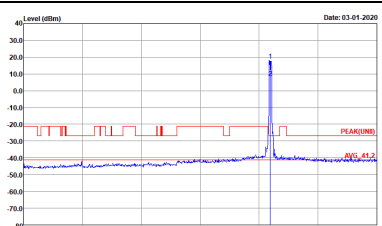
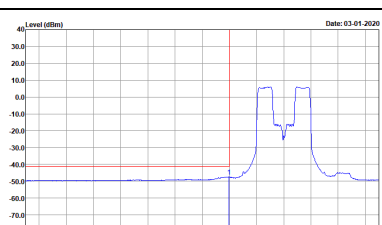
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

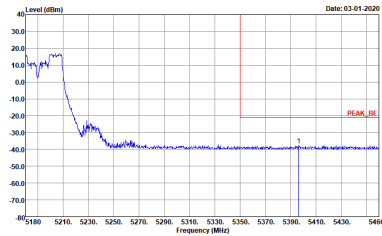
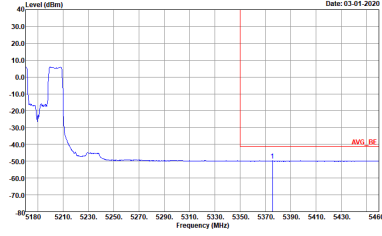
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
6	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

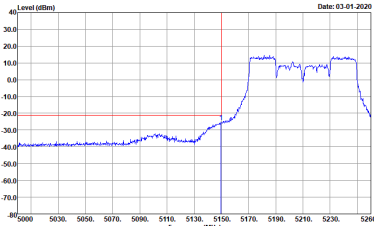
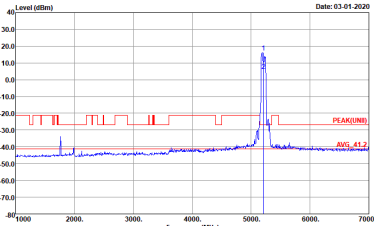
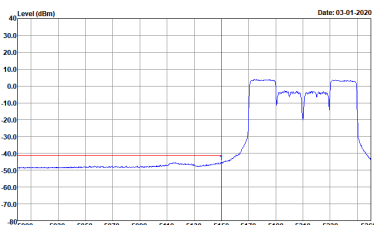
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

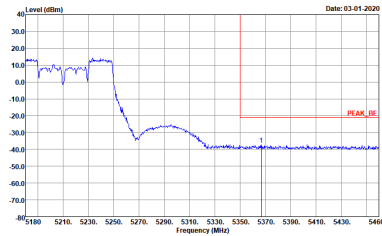
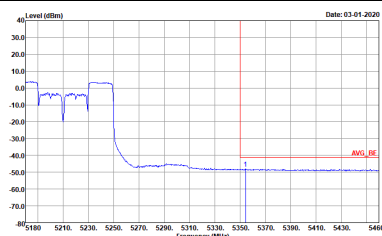
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

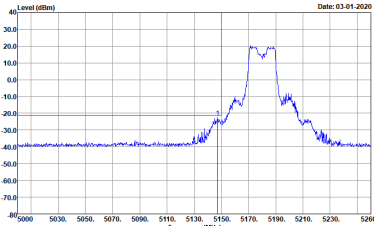
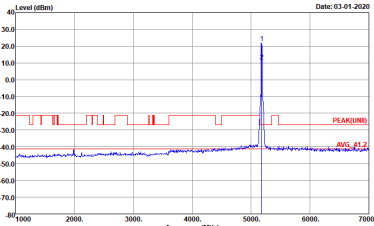
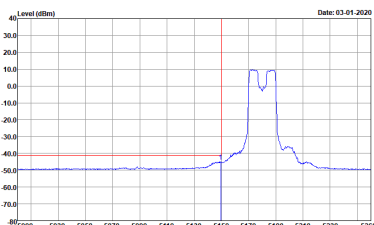
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

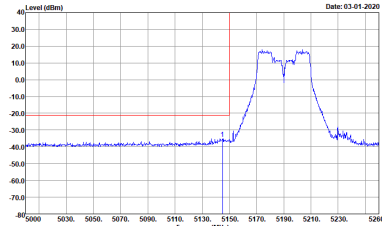
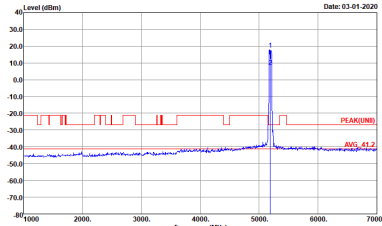
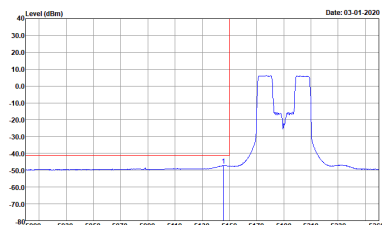
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

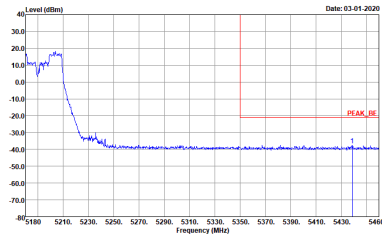
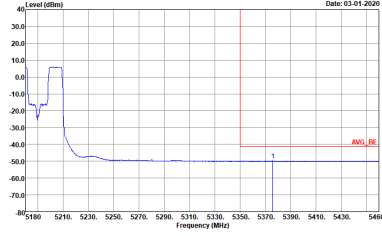
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
7	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge)

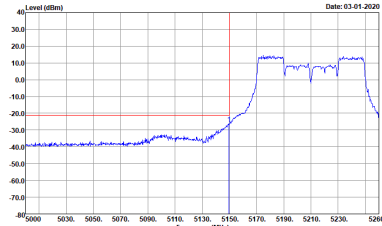
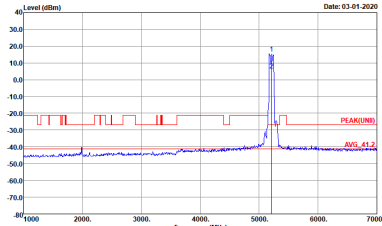
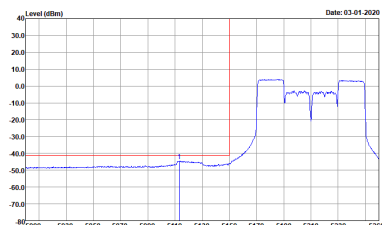
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
8	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

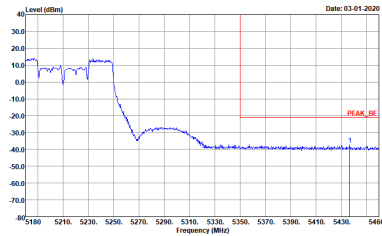
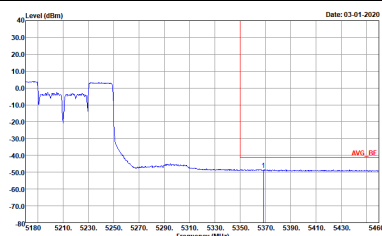
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - L	
8	CSE	Fundamental
Peak	 Date: 03-01-2020 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Date: 03-01-2020 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Date: 03-01-2020 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz - R	
8	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - L	
8	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	 Site : TH01-CA Condition : PEAK(UNIT) ANT 9.28 HORIZONTAL Detector : Peak
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz - R	
8	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.28 HORIZONTAL Detector : Peak	Left blank



Appendix E. Cabinet Radiated Spurious Emission

Test Engineer :	JC Liang, Leo Luo, and Jacky Hong	Temperature :	18~21°C
		Relative Humidity :	38~42%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4*4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 48 5240MHz		5139.62	56.15	-17.85	74	43.49	32.05	10.52	29.91	400	102	P	H
		5142.48	45.4	-8.6	54	32.75	32.04	10.52	29.91	400	102	A	H
	*	5240	121.86	-	-	109.54	31.55	10.65	29.88	400	102	P	H
	*	5240	111.71	-	-	99.39	31.55	10.65	29.88	400	102	A	H
		5433.68	56.37	-17.63	74	43.58	31.75	10.91	29.87	400	102	P	H
		5429.76	45.45	-8.55	54	32.68	31.73	10.91	29.87	400	102	A	H
		5120.12	59.29	-14.71	74	46.62	32.08	10.49	29.9	270	65	P	V
		5140.66	47.23	-6.77	54	34.54	32.08	10.52	29.91	270	65	A	V
	*	5240	125.89	-	-	113.42	31.7	10.65	29.88	270	65	P	V
	*	5240	116.8	-	-	104.33	31.7	10.65	29.88	270	65	A	V
		5361.72	60.44	-13.56	74	47.89	31.6	10.81	29.86	270	65	P	V
		5429.48	47.91	-6.09	54	35.04	31.83	10.91	29.87	270	65	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. 4*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 48 5240MHz		10480	47.86	-20.34	68.2	51.54	39.69	15.42	58.79	100	0	P	H
		15720	46.07	-27.93	74	51.43	37.99	18.13	61.48	100	0	P	H
													H
													H
		10480	50.06	-18.14	68.2	53.73	39.7	15.42	58.79	100	0	P	V
		15720	46.03	-27.97	74	51.12	38.26	18.13	61.48	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ax HE40 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4*4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full LF		105.66	19.77	-23.73	43.5	33.79	16.57	1.8	32.39	-	-	P	H
		264.74	23.21	-22.79	46	32.52	20.19	2.94	32.44	-	-	P	H
		584.84	30.89	-15.11	46	34.03	25.8	3.91	32.85	-	-	P	H
		624.61	34.87	-11.13	46	37.75	25.88	4.09	32.85	-	-	P	H
		845.77	35.35	-10.65	46	33.88	28.93	4.86	32.32	-	-	P	H
		874.87	37.13	-8.87	46	35.11	29.3	4.89	32.17	100	0	P	H
													H
													H
													H
													H
													H
													H
		36.79	23.09	-16.91	40	32.9	21.28	1.33	32.42	-	-	P	V
		159.98	21.76	-21.74	43.5	35.46	16.6	2.09	32.39	-	-	P	V
		565.44	28.34	-17.66	46	31.28	26.09	3.78	32.81	-	-	P	V
		600.36	36.89	-9.11	46	40.04	25.7	4.01	32.86	100	0	P	V
		790.48	35.1	-10.9	46	34.77	28.39	4.54	32.6	-	-	P	V
		955.38	32.71	-13.29	46	28.04	31.01	5.1	31.44	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Band 1 - 5150~5250MHz

WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI Ant. 8*8	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 CH 46 5230MHz		5149.76	58.1	-15.9	74	45.46	32.02	10.53	29.91	231	115	P	H
		5150	47.2	-6.8	54	34.56	32.02	10.53	29.91	231	115	A	H
	*	5230	126.87	-	-	114.52	31.6	10.64	29.89	231	115	P	H
	*	5230	114.05	-	-	101.7	31.6	10.64	29.89	231	115	A	H
		5350	56.83	-17.17	74	44.38	31.51	10.8	29.86	231	115	P	H
		5376	45.66	-8.34	54	33.14	31.56	10.83	29.87	231	115	A	H
		5138.84	56.86	-17.14	74	44.17	32.08	10.52	29.91	146	144	P	V
		5040.3	45.5	-8.5	54	33.15	31.9	10.38	29.93	146	144	A	V
	*	5230	120.92	-	-	108.43	31.74	10.64	29.89	146	144	P	V
	*	5230	108.55	-	-	96.06	31.74	10.64	29.89	146	144	A	V
		5402.32	56.22	-17.78	74	43.47	31.76	10.87	29.88	146	144	P	V
		5423.88	44.96	-9.04	54	32.12	31.81	10.9	29.87	146	144	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 (Harmonic @ 3m)

WIFI Ant. 8*8	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 CH 46 5230MHz		10460	48.15	-20.05	68.2	51.86	39.64	15.41	58.76	100	0	P	H
		15690	46.06	-27.94	74	51.34	38.09	18.13	61.5	100	0	P	H
													H
													H
		10460	49.43	-18.77	68.2	53.11	39.67	15.41	58.76	100	0	P	V
		15690	46.77	-27.23	74	51.8	38.34	18.13	61.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



<Band-edge Unmodulated>

Band 1 - 5150~5250MHz

WIFI 802.11ax HE20 (Band Edge @ 3m)

WIFI Ant. 4*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 CH 36 5180MHz		5148.46	62.66	-11.34	74	55.22	32.08	10.53	35.17	221	136	P	H
		5147.16	47.69	-6.31	54	40.25	32.08	10.53	35.17	221	136	A	H
	*	5180	121.71	-	-	114.44	31.87	10.57	35.17	221	136	P	H
	*	5180	108.72	-	-	101.45	31.87	10.57	35.17	221	136	A	H
													H
													H
		5141.18	65.32	-8.68	74	57.87	32.1	10.52	35.17	295	220	P	V
		5141.7	46.98	-7.02	54	39.53	32.1	10.52	35.17	295	220	A	V
	*	5180	120.74	-	-	113.42	31.92	10.57	35.17	295	220	P	V
	*	5180	107.82	-	-	100.5	31.92	10.57	35.17	295	220	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 4*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 CH 38 5190MHz		5150	73.33	-0.67	74	60.69	32.02	10.53	29.91	100	244	P	H
		5150	48.48	-5.52	54	35.84	32.02	10.53	29.91	100	244	A	H
	*	5190	117.9	-	-	105.42	31.8	10.58	29.9	100	244	P	H
	*	5190	107.54	-	-	95.06	31.8	10.58	29.9	100	244	A	H
		5438.16	57.06	-16.94	74	44.23	31.77	10.92	29.86	100	244	P	H
		5376	45.6	-8.4	54	33.08	31.56	10.83	29.87	100	244	A	H
		5143	72.45	-1.55	74	59.76	32.08	10.52	29.91	100	135	P	V
		5147.16	48.97	-5.03	54	36.27	32.08	10.53	29.91	100	135	A	V
	*	5190	117.58	-	-	105	31.9	10.58	29.9	100	135	P	V
	*	5190	106.33	-	-	93.75	31.9	10.58	29.9	100	135	A	V
		5442.92	57.27	-16.73	74	44.35	31.86	10.92	29.86	100	135	P	V
		5376	45.67	-8.33	54	33.06	31.65	10.83	29.87	100	135	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 (Band Edge @ 3m)

WIFI Ant. 4*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 CH 42 5210MHz		5149.76	71.9	-2.1	74	59.26	32.02	10.53	29.91	217	138	P	H
		5133.64	50.08	-3.92	54	37.41	32.07	10.51	29.91	217	138	A	H
	*	5210	113.04	-	-	100.63	31.7	10.61	29.9	217	138	P	H
	*	5210	101.65	-	-	89.24	31.7	10.61	29.9	217	138	A	H
		5414.92	60.99	-13.01	74	48.3	31.67	10.89	29.87	217	138	P	H
		5443.76	48.77	-5.23	54	35.92	31.79	10.92	29.86	217	138	A	H
		5135.2	73.22	-0.78	74	60.54	32.08	10.51	29.91	265	203	P	V
		5133.12	50.12	-3.88	54	37.44	32.08	10.51	29.91	265	203	A	V
	*	5210	113.82	-	-	101.29	31.82	10.61	29.9	265	203	P	V
	*	5210	102.65	-	-	90.12	31.82	10.61	29.9	265	203	A	V
		5351.92	60.93	-13.07	74	48.43	31.56	10.8	29.86	265	203	P	V
		5454.12	48.86	-5.14	54	35.89	31.89	10.94	29.86	265	203	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



<Middle Unmodulated>

Band 1 - 5150~5250MHz

WIFI 802.11ax HE20 (Band Edge @ 3m)

WIFI Ant. 4*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 CH 36 5180MHz		5149.5	67.43	-6.57	74	54.79	32.02	10.53	29.91	392	284	P	H
		5148.2	50.01	-3.99	54	37.36	32.03	10.53	29.91	392	284	A	H
	*	5180	115.89	-	-	103.36	31.86	10.57	29.9	392	284	P	H
	*	5180	104.6	-	-	92.07	31.86	10.57	29.9	392	284	A	H
													H
													H
		5146.38	73.11	-0.89	74	60.41	32.08	10.53	29.91	281	59	P	V
		5149.76	50.97	-3.03	54	38.27	32.08	10.53	29.91	281	59	A	V
	*	5180	119.36	-	-	106.74	31.95	10.57	29.9	281	59	P	V
	*	5180	108.61	-	-	95.99	31.95	10.57	29.9	281	59	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI Ant. 4*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 CH 38 5190MHz		5142.22	70.56	-3.44	74	57.91	32.04	10.52	29.91	400	286	P	H
		5148.98	49.34	-4.66	54	36.7	32.02	10.53	29.91	400	286	A	H
	*	5190	114.5	-	-	102.02	31.8	10.58	29.9	400	286	P	H
	*	5190	102.78	-	-	90.3	31.8	10.58	29.9	400	286	A	H
		5436.2	60.39	-13.61	74	47.59	31.76	10.91	29.87	400	286	P	H
		5443.76	48.19	-5.81	54	35.34	31.79	10.92	29.86	400	286	A	H
		5144.56	71.18	-2.82	74	58.49	32.08	10.52	29.91	295	123	P	V
		5144.56	51.01	-2.99	54	38.32	32.08	10.52	29.91	295	123	A	V
	*	5190	117.13	-	-	104.55	31.9	10.58	29.9	295	123	P	V
	*	5190	106.1	-	-	93.52	31.9	10.58	29.9	295	123	A	V
		5449.08	60.85	-13.15	74	47.9	31.88	10.93	29.86	295	123	P	V
		5443.48	48.32	-5.68	54	35.4	31.86	10.92	29.86	295	123	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 (Band Edge @ 3m)

WIFI Ant. 4*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 CH 42 5210MHz		5137.8	66.36	-7.64	74	53.7	32.06	10.51	29.91	400	125	P	H
		5121.42	47.95	-6.05	54	35.25	32.11	10.49	29.9	400	125	A	H
	*	5210	110.93	-	-	98.52	31.7	10.61	29.9	400	125	P	H
	*	5210	99.93	-	-	87.52	31.7	10.61	29.9	400	125	A	H
		5361.72	55.55	-18.45	74	43.07	31.53	10.81	29.86	400	125	P	H
		5423.6	44.55	-9.45	54	31.81	31.71	10.9	29.87	400	125	A	H
		5143.78	72.28	-1.72	74	59.59	32.08	10.52	29.91	284	357	P	V
		5116.22	51.62	-2.38	54	38.95	32.08	10.49	29.9	284	357	A	V
	*	5210	114.41	-	-	101.88	31.82	10.61	29.9	284	357	P	V
	*	5210	103.12	-	-	90.59	31.82	10.61	29.9	284	357	A	V
		5459.72	55.31	-18.69	74	42.31	31.91	10.95	29.86	284	357	P	V
		5358.08	45.17	-8.83	54	32.64	31.58	10.81	29.86	284	357	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(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 F. Cabinet Radiated Spurious Emission Plots

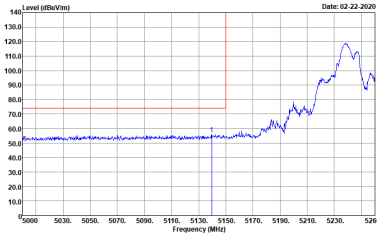
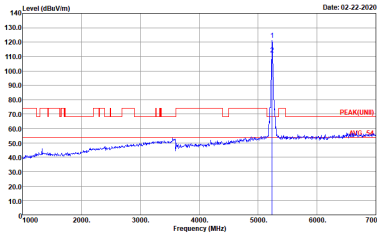
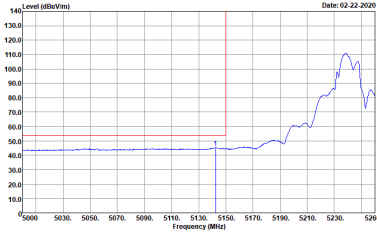
Test Engineer :	JC Liang, Leo Liu, and Jacky Hong	Temperature :	18~21°C
		Relative Humidity :	38~42%

Note symbol

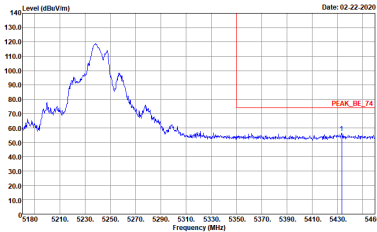
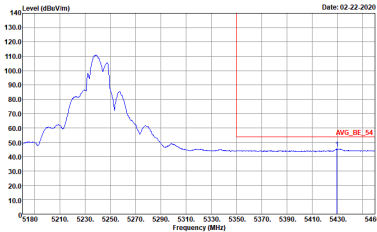
-L	Low channel location
-R	High channel location

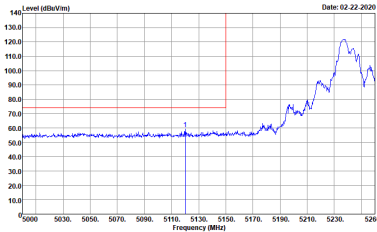
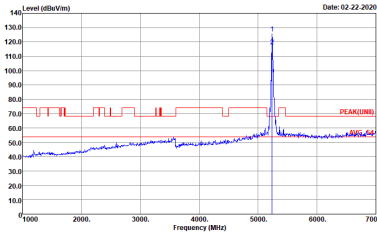
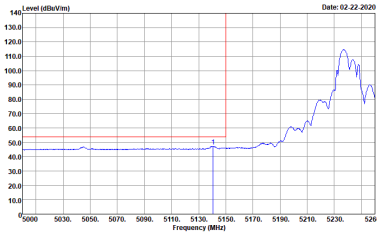


Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

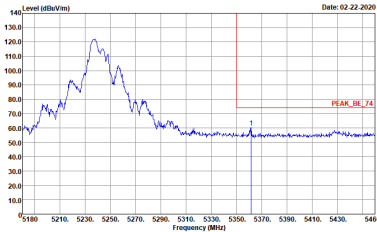
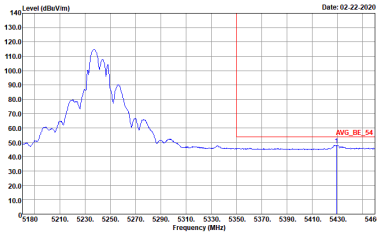
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(LINE) 3m HORN 9120D-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

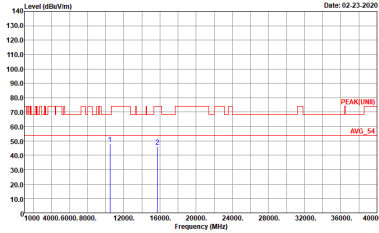
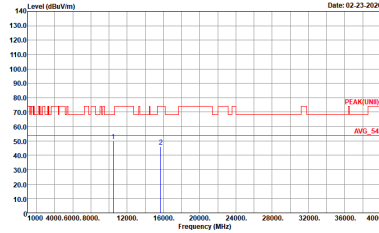


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

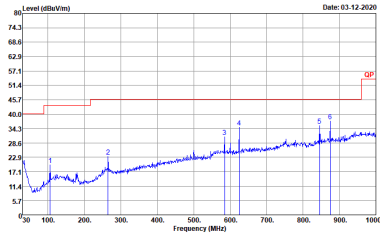
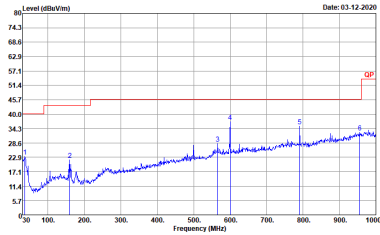


Band 1 - 5150~5250MHz

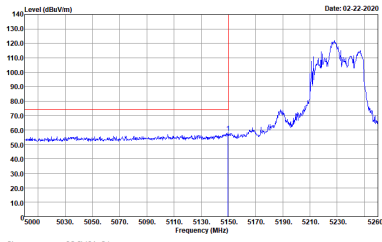
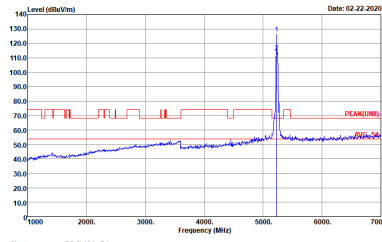
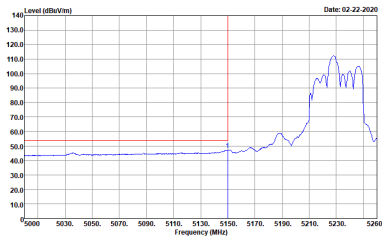
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
4*4	Horizontal	Vertical
Peak Avg.	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 9120D-HF_01894 HORIZONTAL Detector : Peak	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 9120D-HF_01894 VERTICAL Detector : Peak

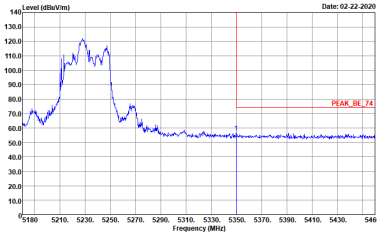
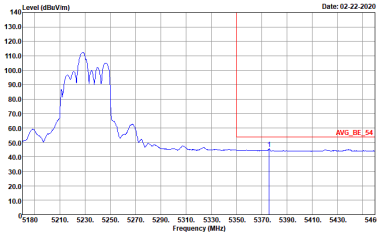
Emission below 1GHz
5GHz WIFI 802.11ax HE40 Full (LF)

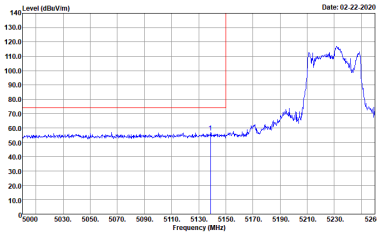
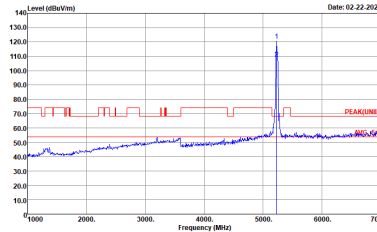
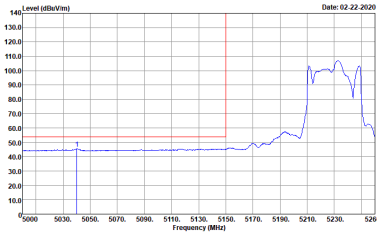
WIFI	5GHz WIFI	
ANT	802.11ax HE40 Full LF	
4*4	Horizontal	Vertical
QP / Peak	 Site : 03CH01-CA Condition : QP 3m BIL06 6111D-LF_50391 HORIZONTAL Detector : Peak	 Site : 03CH01-CA Condition : QP 3m BIL06 6111D-LF_50391 VERTICAL Detector : Peak

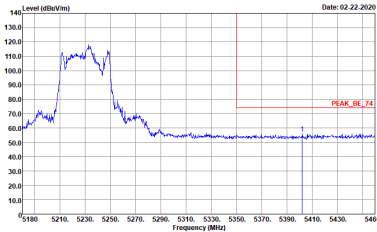
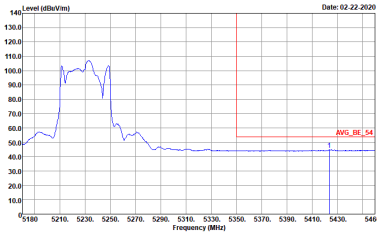
Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH46 5230MHz - L	
8*8	Horizontal	Fundamental
Peak		
Avg.		Left blank



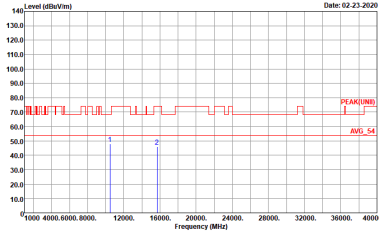
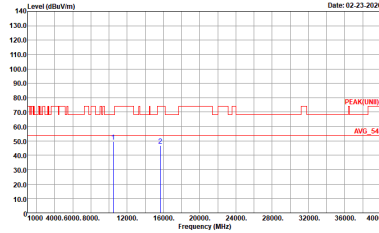
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH46 5230MHz - R	
8*8	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH46 5230MHz - L	
8*8	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

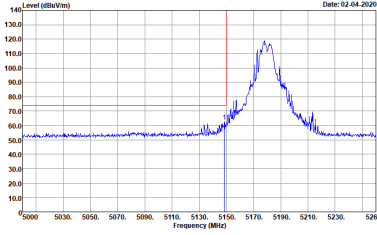
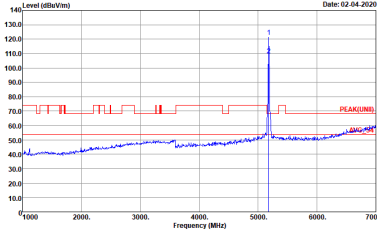
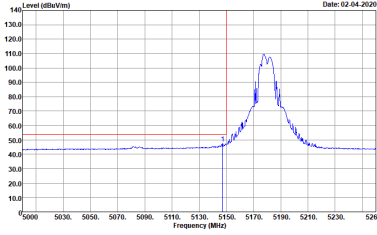
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH46 5230MHz - R	
8*8	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

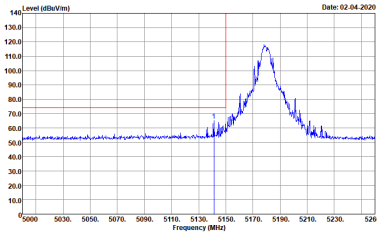
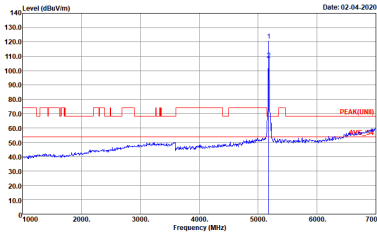
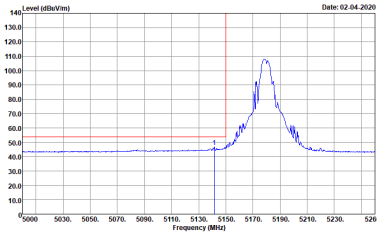


Band 1 - 5150~5250MHz
WIFI 802.11ax HE40 (Harmonic @ 3m)

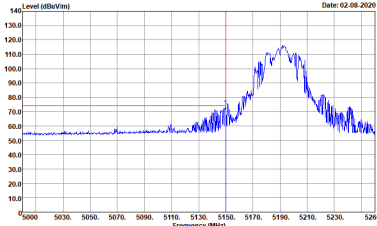
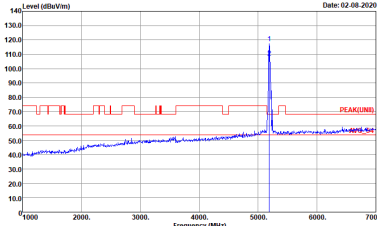
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 CH46 5230MHz	
8*8	Horizontal	Vertical
Peak Avg.	 Site : 03CH01-CA Condition : PFAK(UNIT) 3m HORN 9120D-HF_01894 HORIZONTAL Detector : Peak	 Site : 03CH01-CA Condition : PFAK(UNIT) 3m HORN 9120D-HF_01894 VERTICAL Detector : Peak

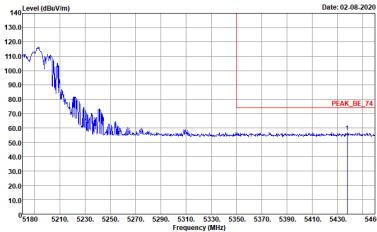
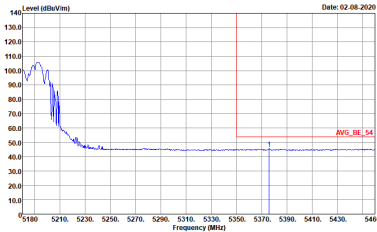
<Band-edge Unmodulated>
Band 1 - 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge @ 3m)

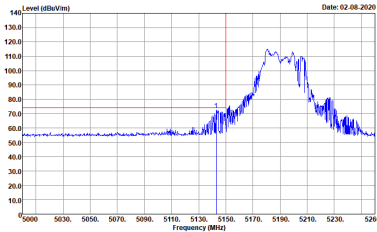
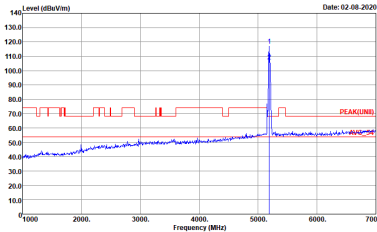
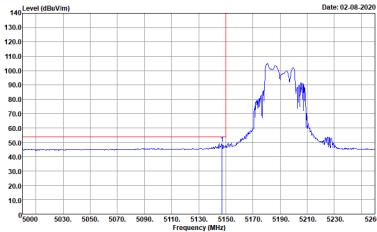
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH36 5180MHz	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_02140 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(FUND) 3m HORN 9120D-HF_02140 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 9120D-HF_02140 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH36 5180MHz	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02140 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_02140 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_02140 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

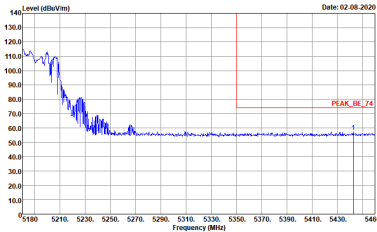
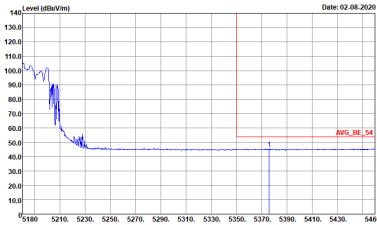
Band 1 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH38 5190MHz - L	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto	Left blank

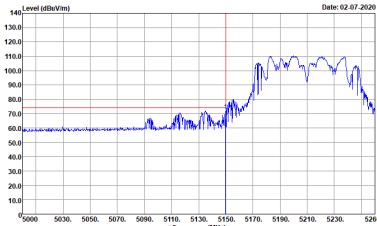
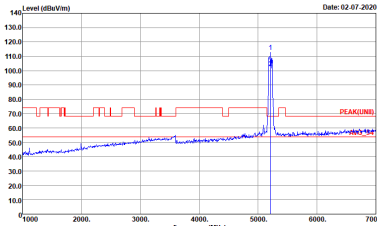
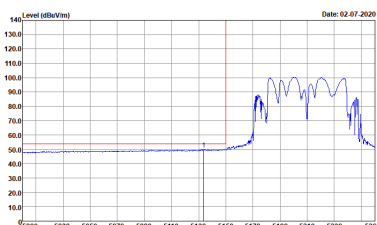
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH38 5190MHz - R	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

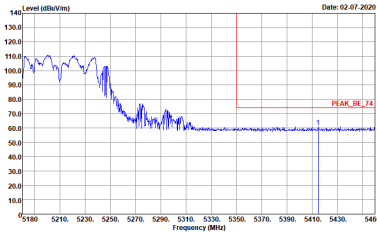
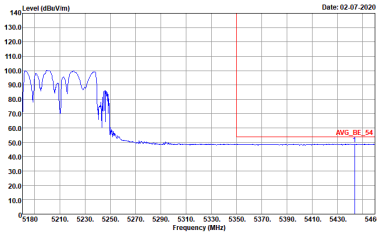
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH38 5190MHz - L	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

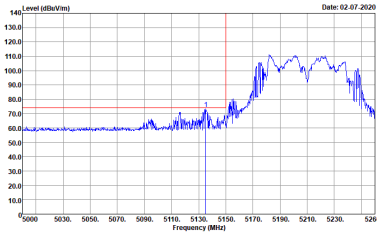
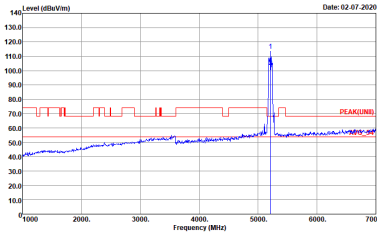
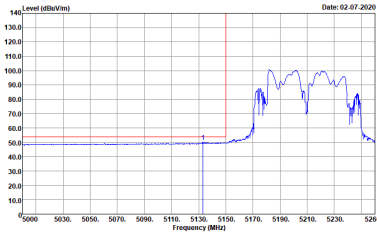


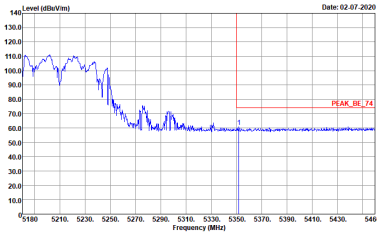
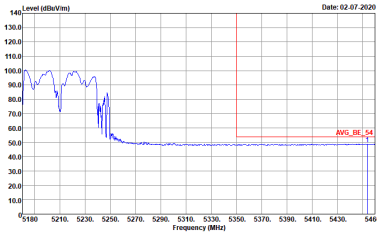
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH38 5190MHz - R	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH42 5210MHz - L	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH42 5210MHz - R	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH42 5210MHz - L	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH42 5210MHz - R	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

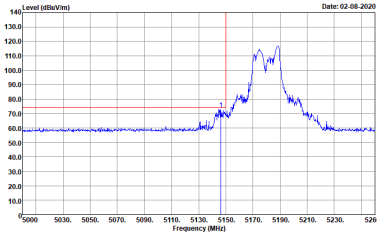
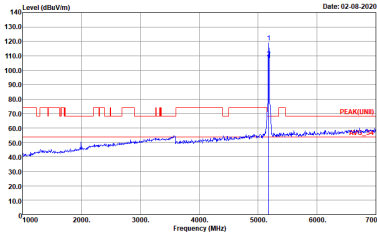
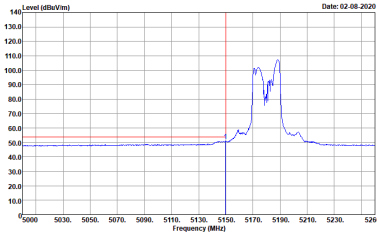


<Middle Unmodulated>

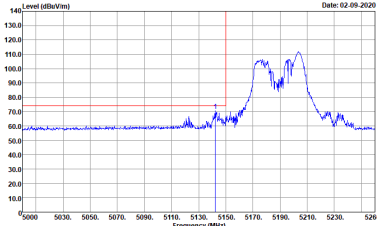
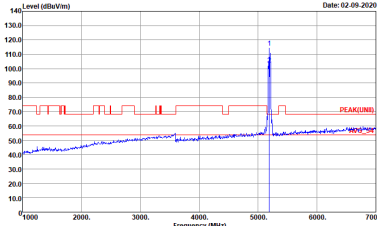
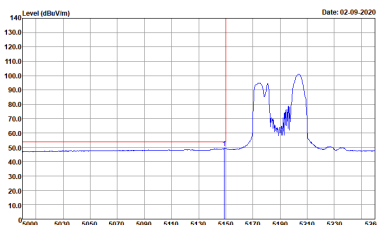
Band 1 - 5150~5250MHz

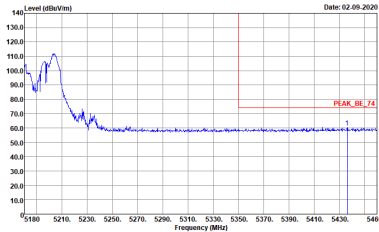
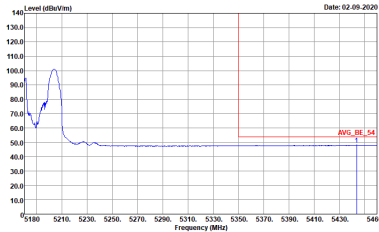
WIFI 802.11ax HE20 (Band Edge @ 3m)

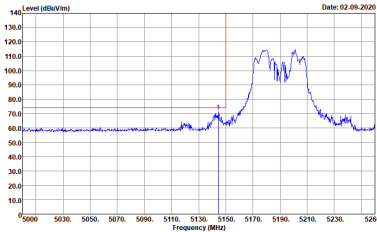
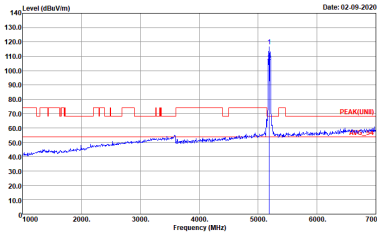
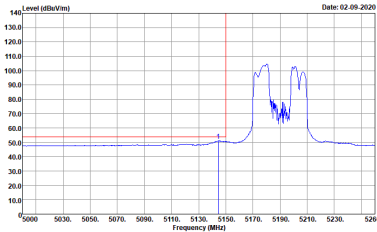
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH36 5180MHz	
4*4	Horizontal	Fundamental
Peak	Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01894 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 9120D-HF_01894 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01894 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH36 5180MHz	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01894 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(FUND) 3m HORN 9120D-HF_01894 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01894 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

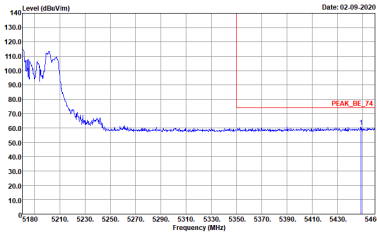
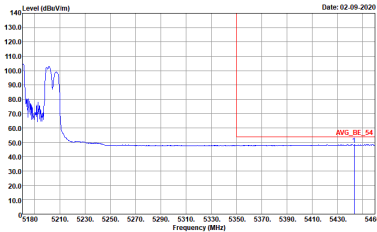
Band 1 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH38 5190MHz - L	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto	Left blank

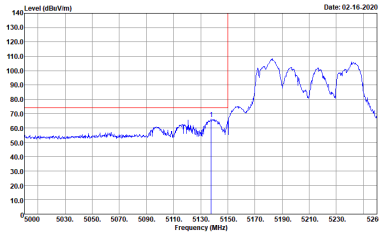
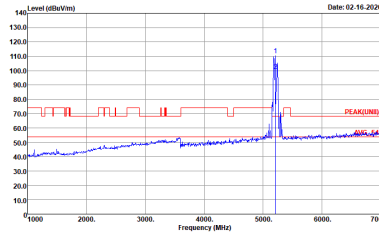
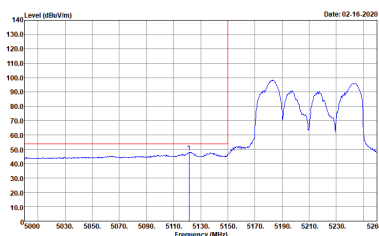
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH38 5190MHz - R	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

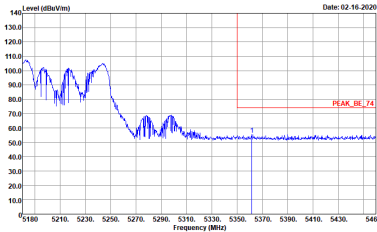
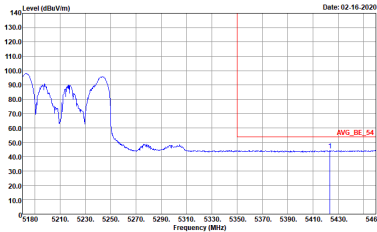
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH38 5190MHz - L	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

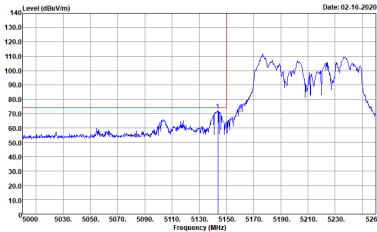
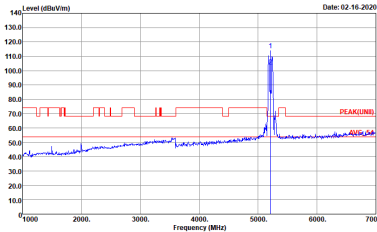
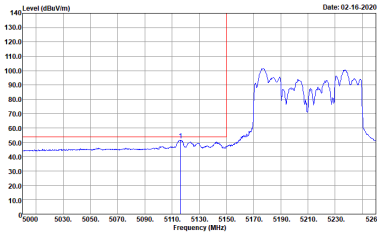


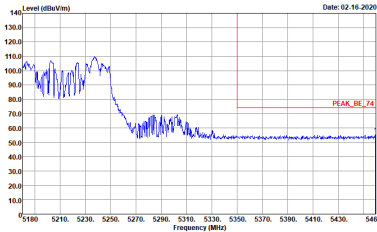
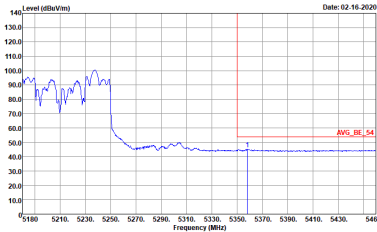
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH38 5190MHz - R	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH42 5210MHz - L	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH42 5210MHz - R	
4*4	Horizontal	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH42 5210MHz - L	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH01-CA Condition : PEAK(UNIT) 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

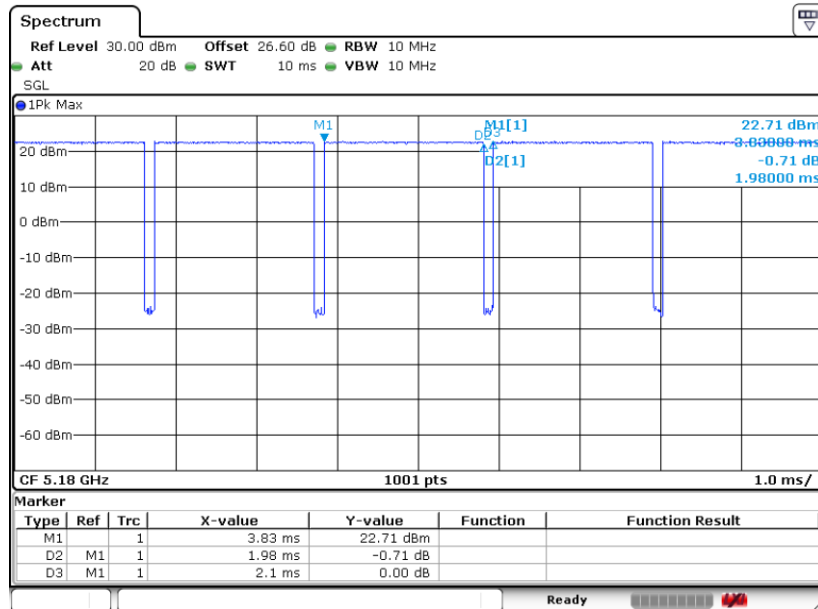
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH42 5210MHz - R	
4*4	Vertical	Fundamental
Peak	 Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-HF_01894 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH01-CA Condition : AVG_BE_54 3m HORN 91200-HF_01894 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto	Left blank

Appendix G. Duty Cycle Plots

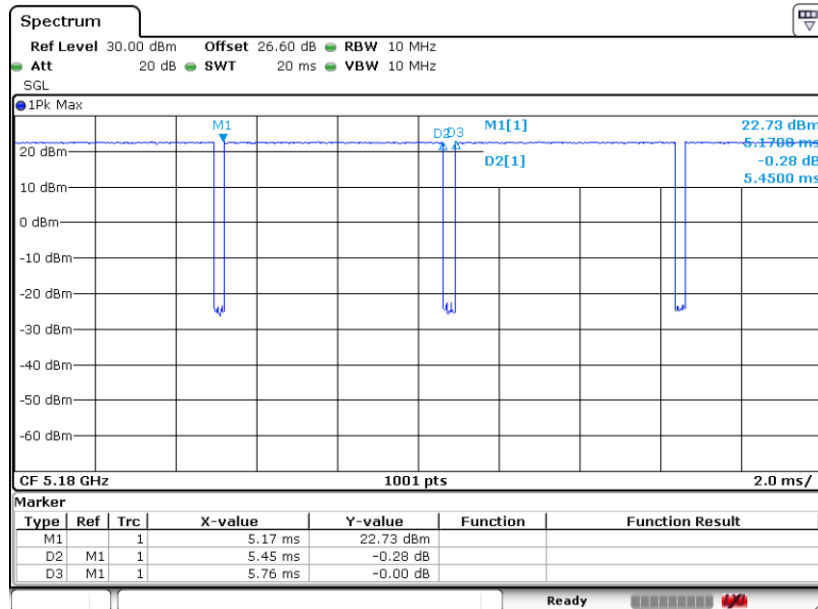
Mode	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
4*4	5GHz 802.11a for Ant. 1	94.29	1980	0.51	1kHz	0.26
4*4	5GHz 802.11a for Ant. 2	94.29	1980	0.51	1kHz	0.26
4*4	5GHz 802.11a for Ant. 3	94.29	1980	0.51	1kHz	0.26
4*4	5GHz 802.11a for Ant. 4	94.29	1980	0.51	1kHz	0.26
4*4	5GHz 802.11ax HE20 for Ant. 1	94.62	5450	0.18	300Hz	0.24
4*4	5GHz 802.11ax HE20 for Ant. 2	94.78	5450	0.18	300Hz	0.23
4*4	5GHz 802.11ax HE20 for Ant. 3	95.60	5430	0.18	300Hz	0.20
4*4	5GHz 802.11ax HE20 for Ant. 4	95.30	5470	0.18	300Hz	0.21
4*4	5GHz 802.11ax HE40 for Ant. 1	93.30	5430	0.18	300Hz	0.30
4*4	5GHz 802.11ax HE40 for Ant. 2	93.61	5420	0.18	300Hz	0.29
4*4	5GHz 802.11ax HE40 for Ant. 3	95.94	5430	0.18	300Hz	0.18
4*4	5GHz 802.11ax HE40 for Ant. 4	95.11	5450	0.18	300Hz	0.22
4*4	5GHz 802.11ax HE80 for Ant. 1	94.57	5400	0.19	300Hz	0.24
4*4	5GHz 802.11ax HE80 for Ant. 2	94.93	5430	0.18	300Hz	0.23
4*4	5GHz 802.11ax HE80 for Ant. 3	95.58	5410	0.18	300Hz	0.20
4*4	5GHz 802.11ax HE80 for Ant. 4	94.91	5410	0.18	300Hz	0.23



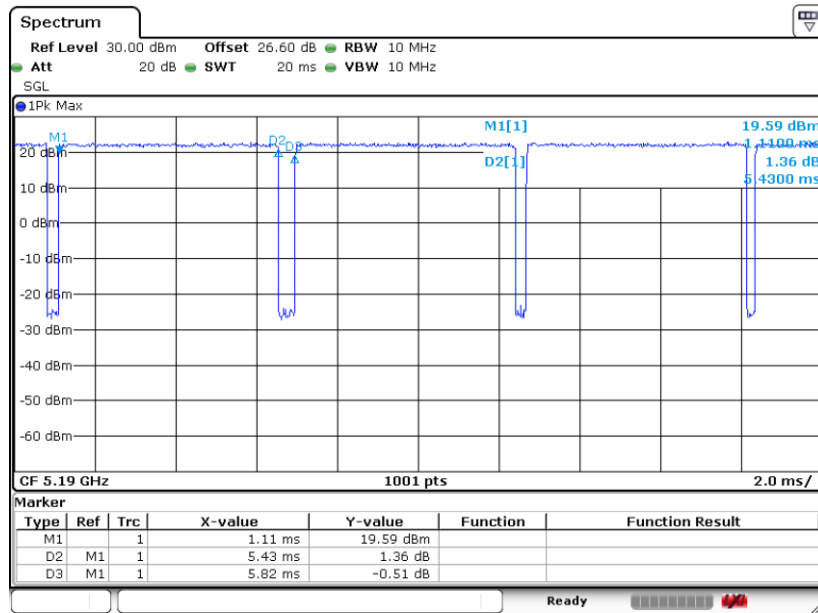
Mode	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
8*8	5GHz 802.11ax HE40 for Ant. 1	93.30	5430	0.18	300Hz	0.30
8*8	5GHz 802.11ax HE40 for Ant. 2	93.61	5420	0.18	300Hz	0.29
8*8	5GHz 802.11ax HE40 for Ant. 3	95.94	5430	0.18	300Hz	0.18
8*8	5GHz 802.11ax HE40 for Ant. 4	95.11	5450	0.18	300Hz	0.22
8*8	5GHz 802.11ax HE40 for Ant. 5	95.95	5450	0.18	300Hz	0.18
8*8	5GHz 802.11ax HE40 for Ant. 6	95.95	5450	0.18	300Hz	0.18
8*8	5GHz 802.11ax HE40 for Ant. 7	95.96	5460	0.18	300Hz	0.18
8*8	5GHz 802.11ax HE40 for Ant. 8	95.28	5450	0.18	300Hz	0.21

<For 4*4>
MIMO <Ant. 1>
802.11a


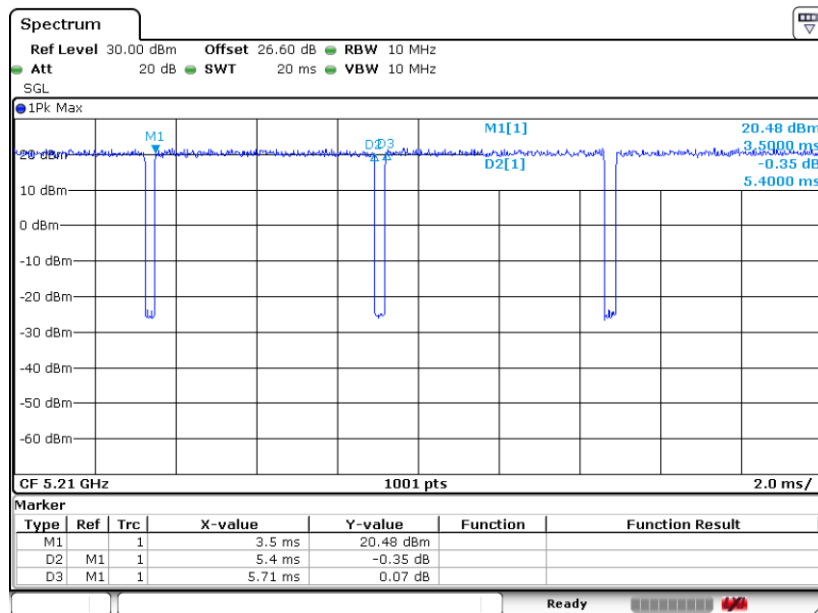
Date: 29 JAN 2020 16:31:18

802.11ax HE20


Date: 29 JAN 2020 16:38:04

802.11ax HE40


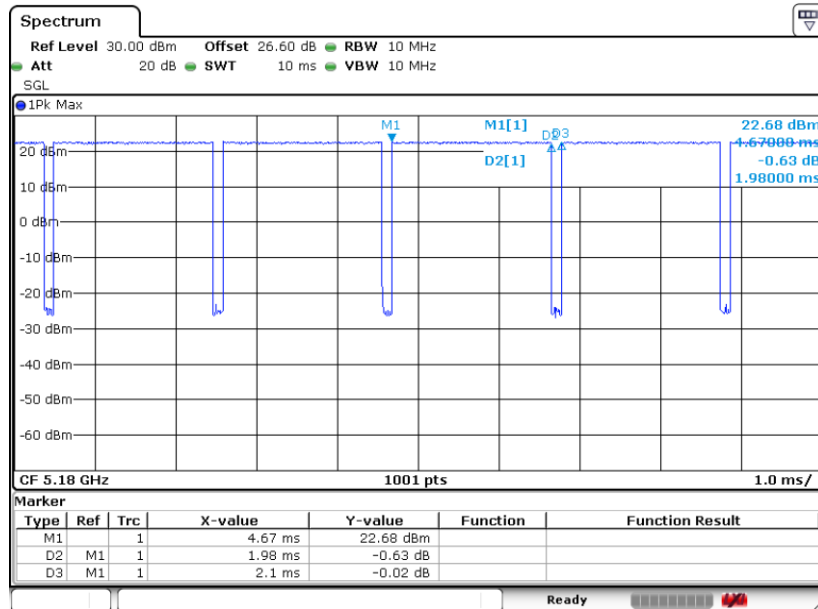
Date: 29.JAN.2020 16:52:09

802.11ax HE80


Date: 29.JAN.2020 17:00:51

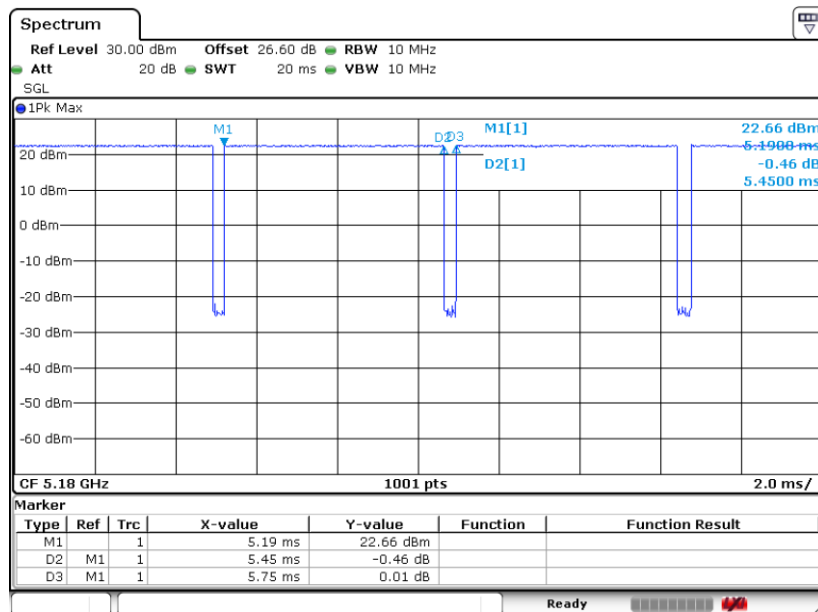
MIMO <Ant. 2>

802.11a

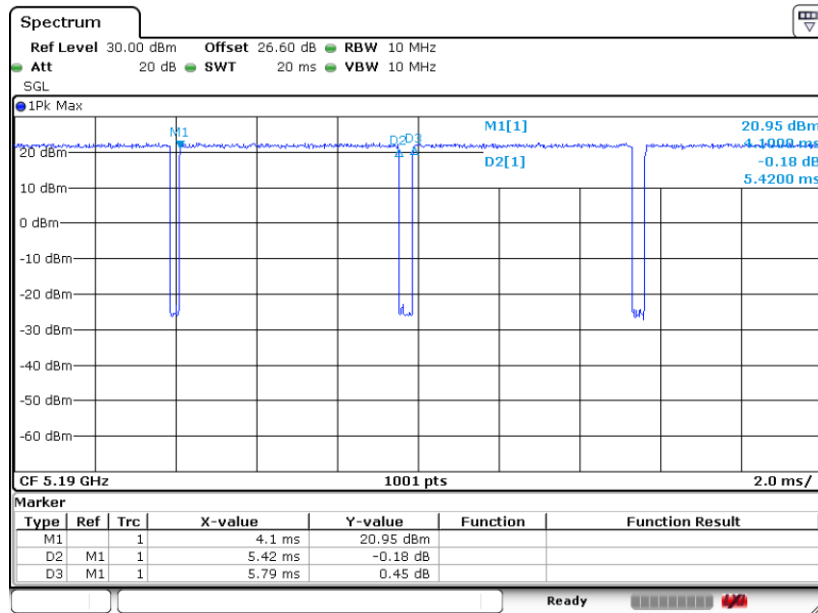


Date: 29 JAN 2020 16:34:45

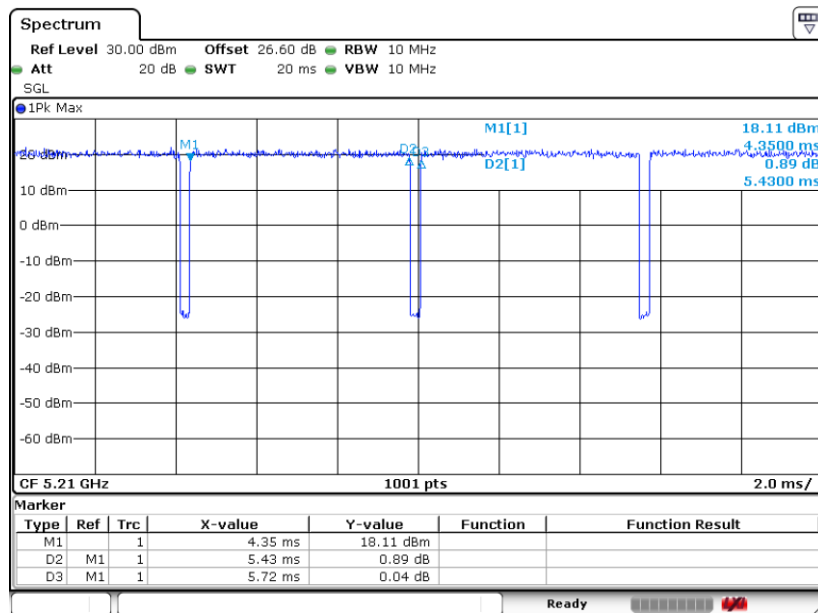
802.11ax HE20



Date: 29 JAN 2020 16:38:48

802.11ax HE40


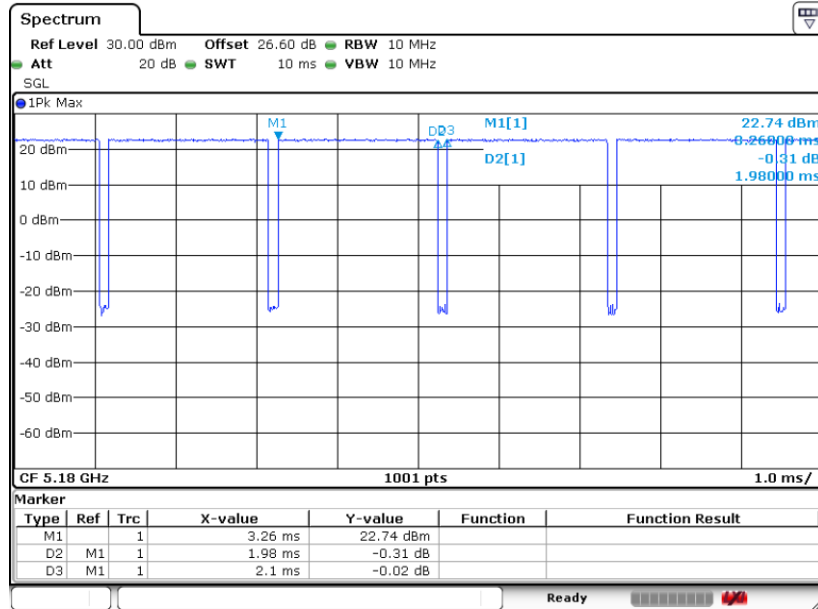
Date: 29.JAN.2020 16:52:59

802.11ax HE80


Date: 29.JAN.2020 17:01:37

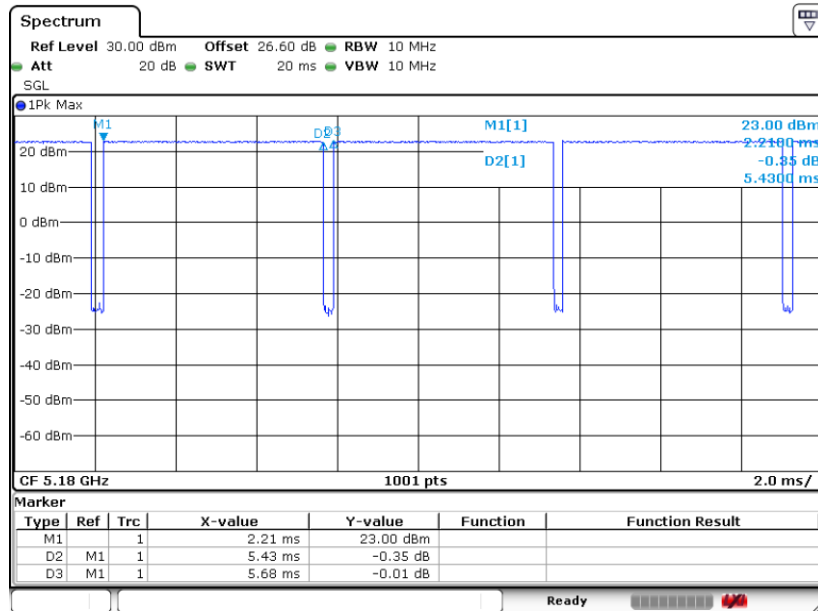
MIMO <Ant. 3>

802.11a

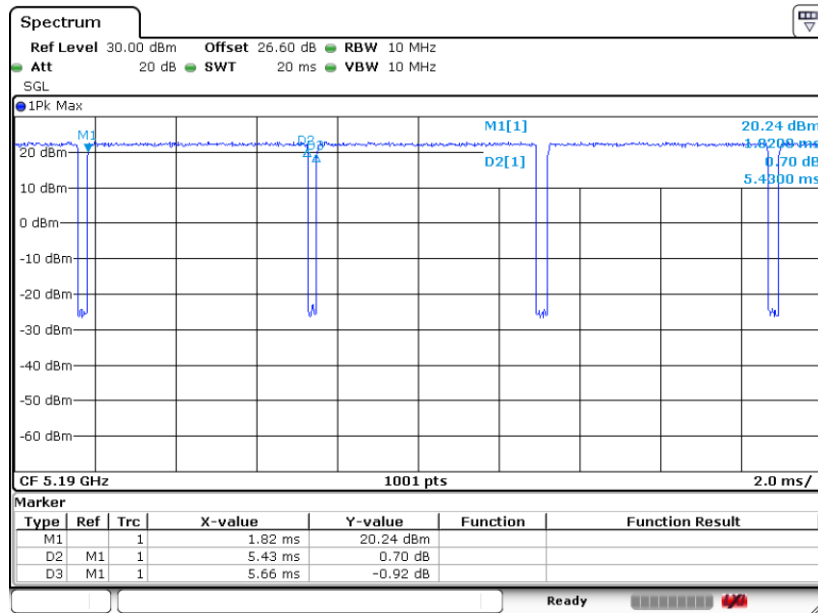


Date: 29 JAN 2020 16:35:05

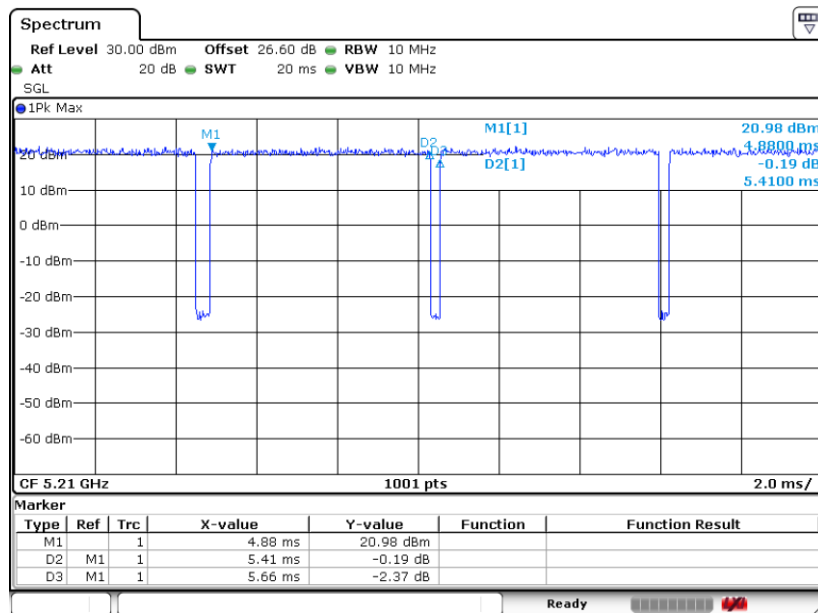
802.11ax HE20



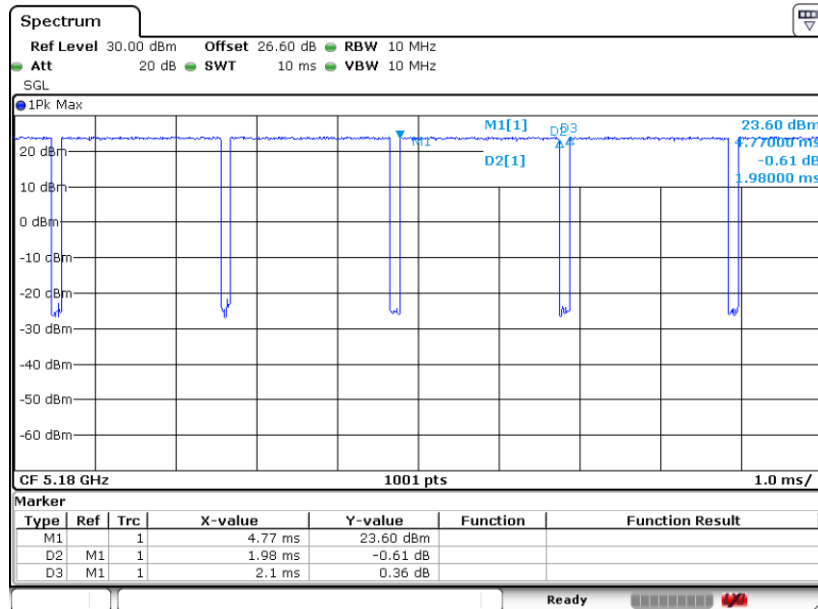
Date: 29 JAN 2020 16:39:40

802.11ax HE40


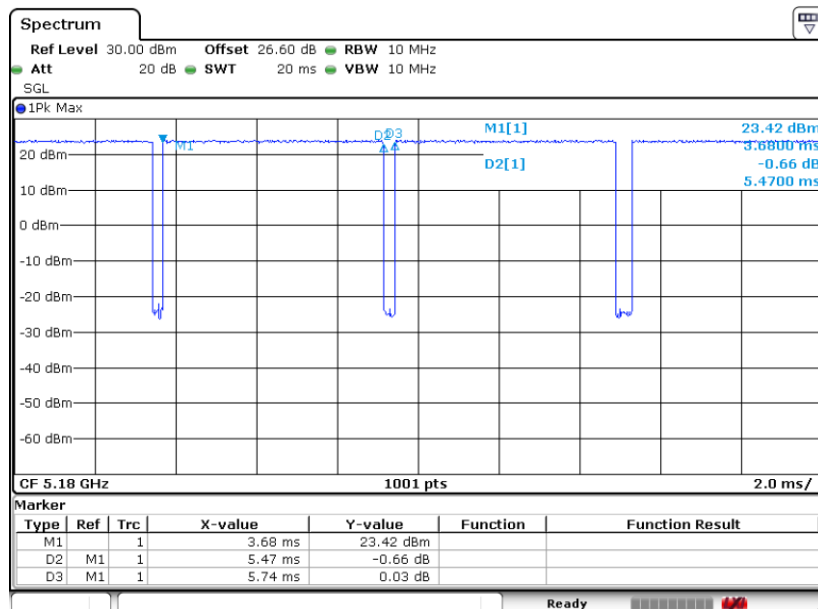
Date: 29.JAN.2020 16:53:45

802.11ax HE80


Date: 29.JAN.2020 17:02:27

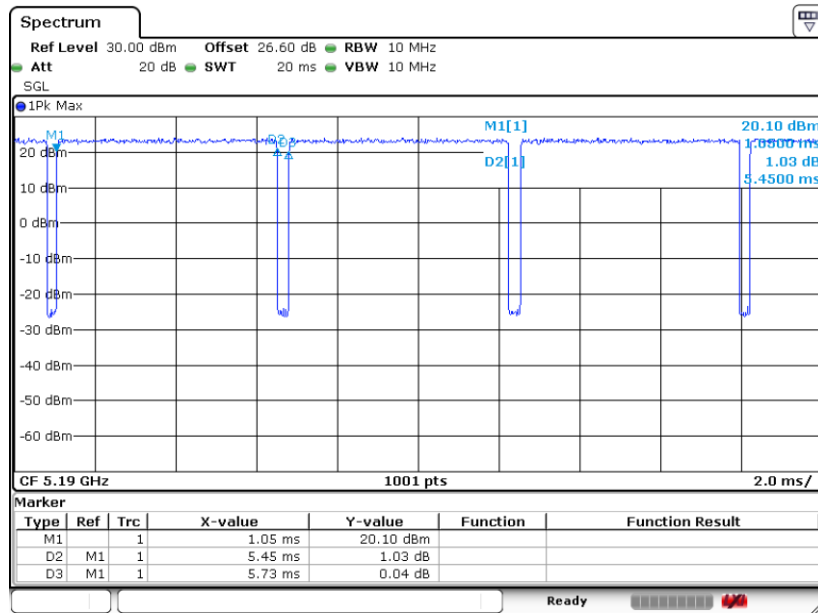
MIMO <Ant. 4>
802.11a


Date: 29 JAN 2020 16:35:34

802.11ax HE20


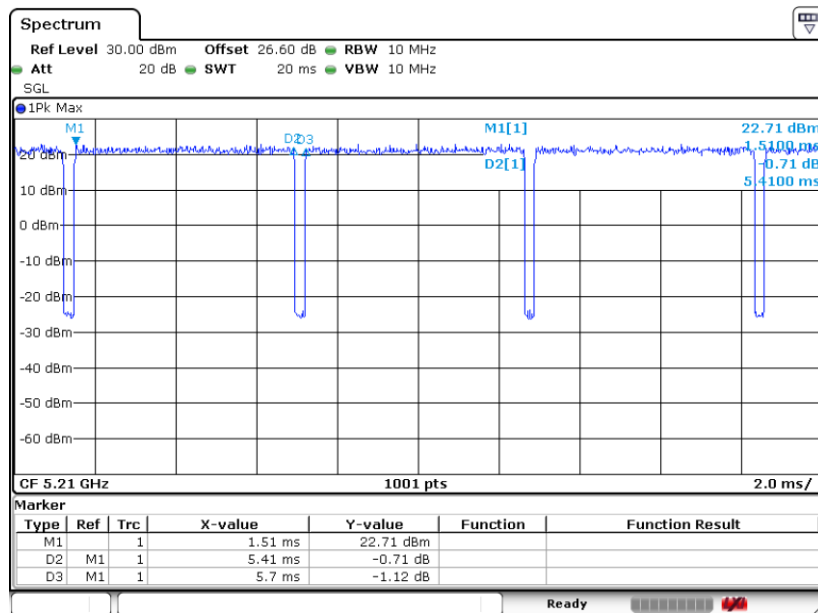
Date: 29 JAN 2020 16:40:17

802.11ax HE40



Date: 29.JAN.2020 16:54:34

802.11ax HE80

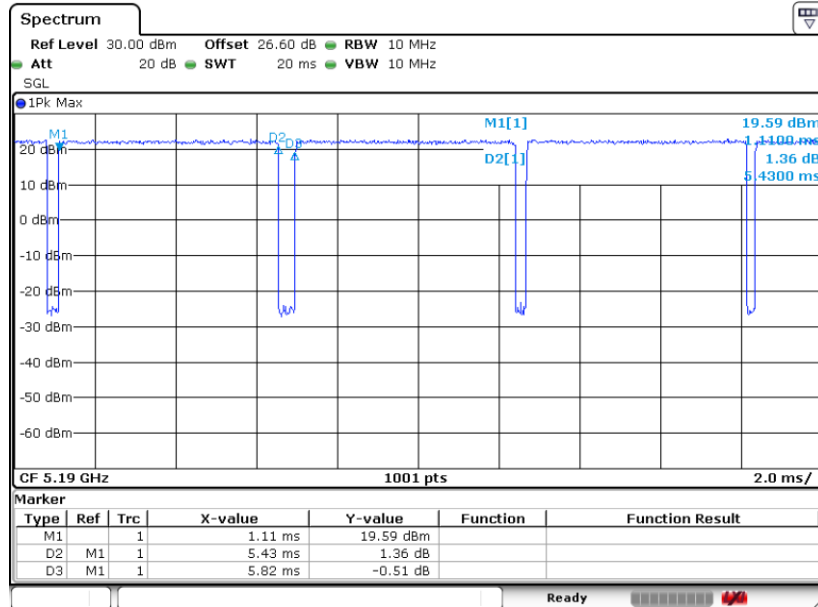


Date: 29.JAN.2020 17:04:42

<For 8*8>

MIMO <Ant. 1>

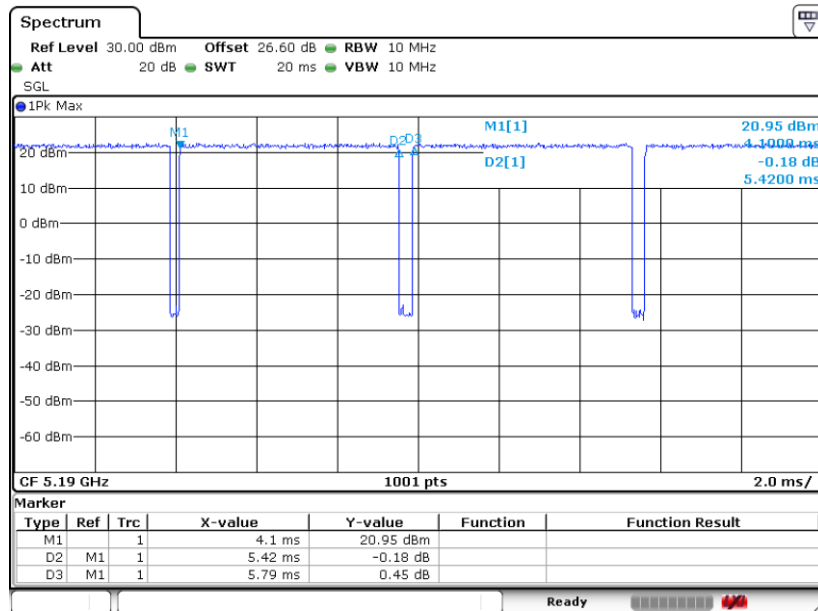
802.11ax HE40



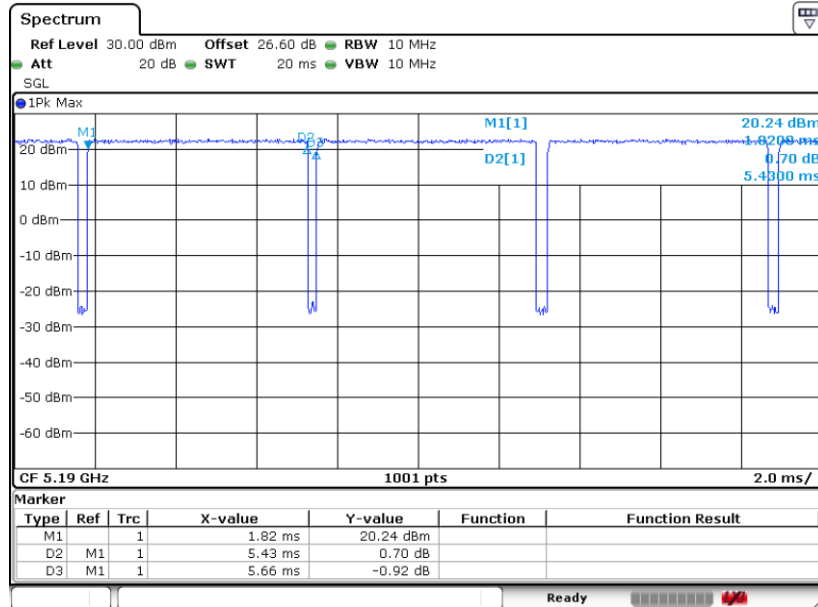
Date: 29.JAN.2020 16:52:09

MIMO <Ant. 2>

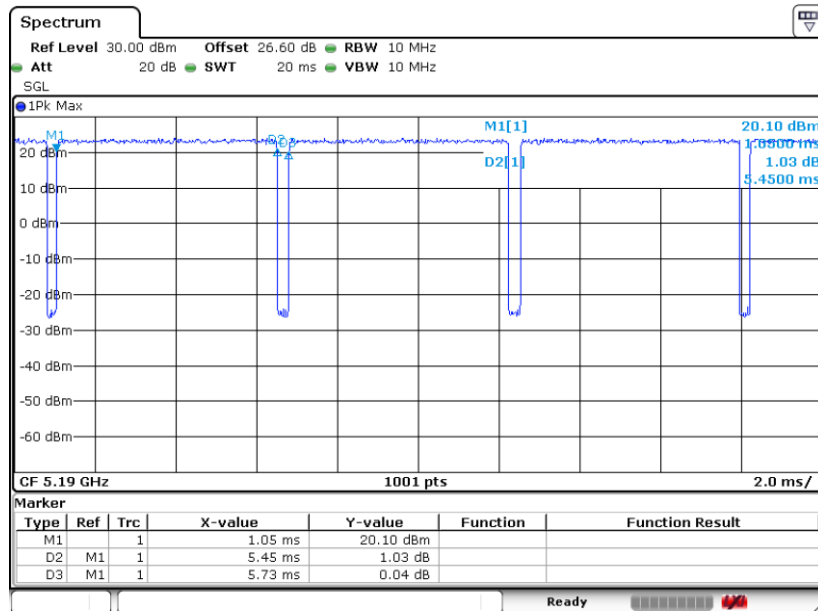
802.11ax HE40



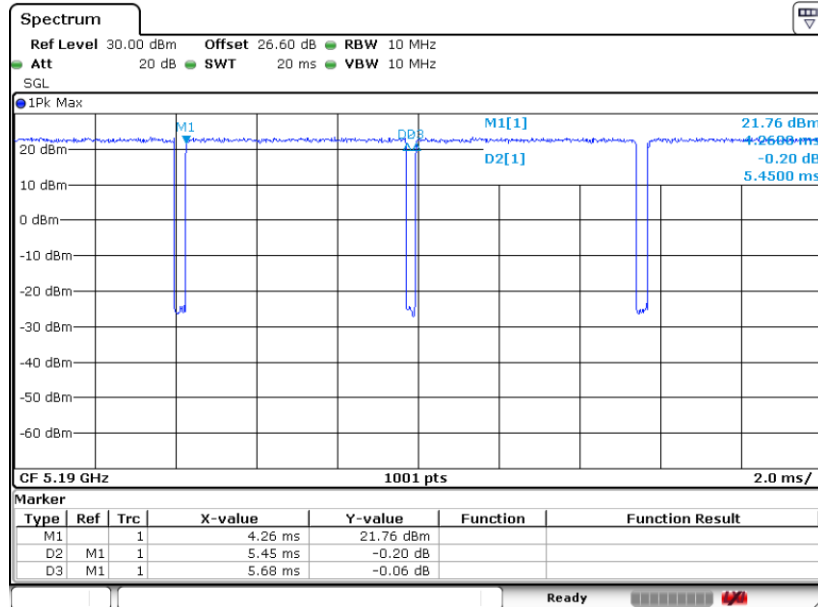
Date: 29.JAN.2020 16:52:59

MIMO <Ant. 3>
802.11ax HE40


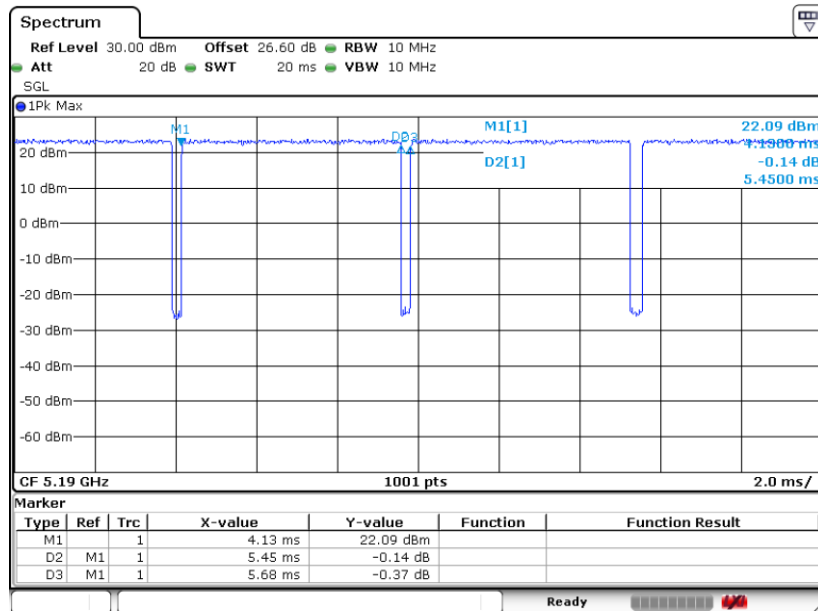
Date: 29.JAN.2020 16:53:45

MIMO <Ant. 4>
802.11ax HE40


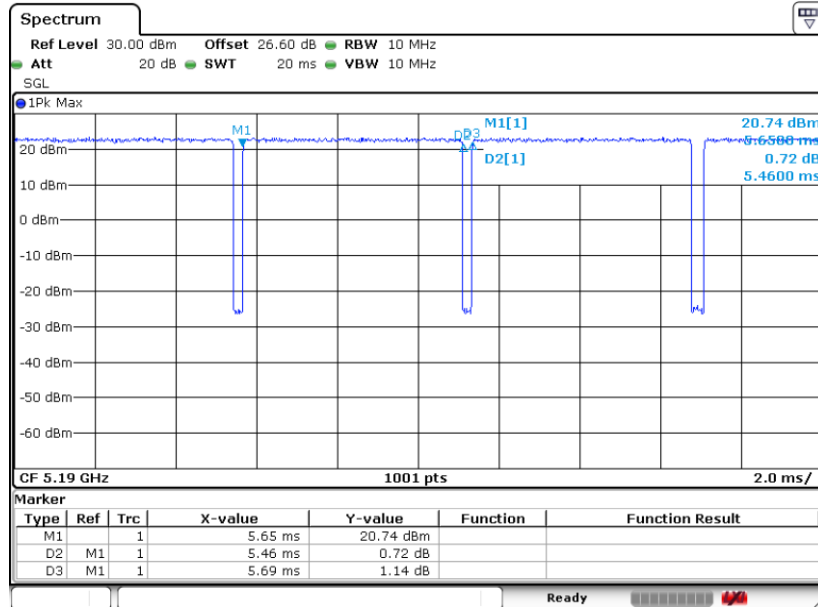
Date: 29.JAN.2020 16:54:34

MIMO <Ant. 5>
802.11ax HE40


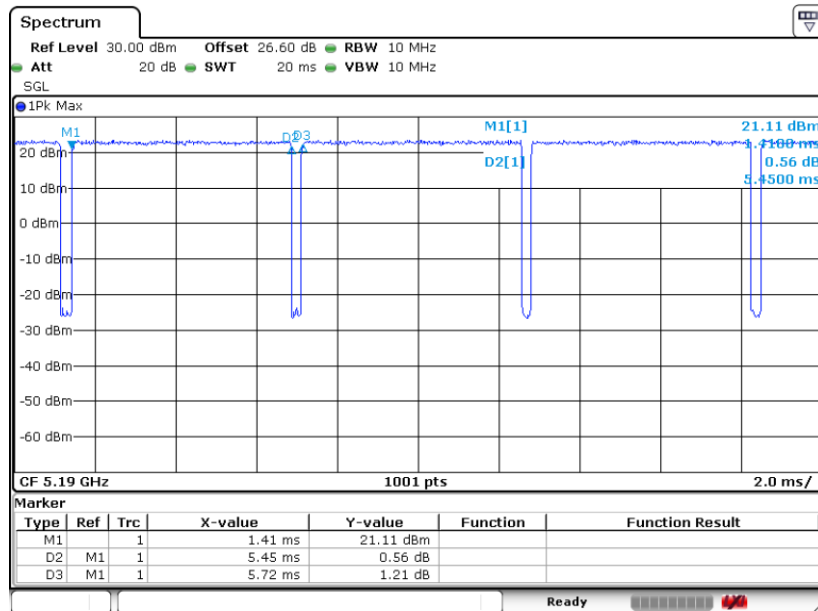
Date: 29.JAN.2020 17:43:54

MIMO <Ant. 6>
802.11ax HE40


Date: 29.JAN.2020 17:44:50

MIMO <Ant. 7>
802.11ax HE40


Date: 29.JAN.2020 17:45:34

MIMO <Ant. 8>
802.11ax HE40


Date: 29.JAN.2020 17:46:12